



# ECBC



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## ECBC: EUROPEAN COVERED BOND FACT BOOK 2021



**EMF | ECBC**

EUROPEAN MORTGAGE FEDERATION  
EUROPEAN COVERED BOND COUNCIL



This 16<sup>th</sup> edition of the ECBC European Covered Bond Fact Book builds on the success of previous editions. Chapter I presents an analysis of twelve key themes of the year, offering an overview of the Industry's perspective on these, such as the latest developments on the impact of COVID-19 pandemic as well as the ECB consequent responses put in place, and an analysis of covered bonds gaining a stronger global footing.

Chapter II provides a detailed explanation of covered bond fundamentals, the state of play on the latest implementations of the Covered Bond Directive and of Basel III, the Capital Markets Union (CMU), the Liquidity Coverage Ratio (LCR), Solvency II, bail-in mechanisms (MREL and TLAC), and covered bond protection. This chapter also includes articles outlining the repo treatment of covered bonds by central banks, investigates the relationship between covered bonds and other asset classes, such as senior unsecured and government bonds, and describes the USD, GBP and domestic currency denominated covered bond markets.

Chapter III presents an overview of the legislation and markets in 42 different countries, demonstrating the worldwide success and recognition, and the continued spread of the asset class. Chapter IV sets out credit rating agencies' various covered bond methodologies. Chapter V provides a description of trends in the covered bond market, as well as a complete set of covered bond statistics up to the end of 2020.

The ECBC welcomes the broad range of views expressed in this latest edition of the Fact Book and thanks all contributors whose enthusiasm and dedication have once again produced an outstanding publication. Particularly, we would like to express our gratitude to the Chairmen of the ECBC Fact Book and Statistics & Data Working Groups, Mr Sascha Kullig and Mr Joost Beaumont, respectively.

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# **FOREWORD**

## **Covered Bonds at the dawn of a new sustainable world?**

This year's edition of the European Covered Bond Council (ECBC) European Covered Bond Fact Book, the 16<sup>th</sup> edition, seeks to identify and assess the real drivers of developments in the covered bond space over the past 12 months, providing the market perspectives and opinions of more than 100 contributors in over 40 countries. They share with us their views on the key market and legislative developments that have occurred, the best practices that have emerged, and address issues which have come to the fore such as digitalisation and sustainability, including both the social and green dimensions.

In the context of the COVID-19 pandemic, which has influenced every aspect of life over the past 18 months, now more than ever the Fact Book represents the backbone of the ECBC's activities. As the Industry's think-tank, the ECBC looks to highlight not only the latest developments but also the core fundamentals that have made covered bonds the most traditional yet innovative asset class in the European financial landscape. This anti-cyclical, long-term financing instrument has become a pillar of financial stability and is the nexus between harmonised European financial innovation and the traditions that sit within national legal frameworks. The European Covered Bond Directive has crowned this evolution and, together with the ECBC-led Covered Bond Label, has become a qualitative benchmark for the identification of a keystone in the architecture of the Capital Markets Union.

This compendium of market developments encompasses the essence and collaborative spirit of the ECBC members' work, which amalgamates different cultures, perspectives but more importantly legal and financial features in a common qualitative and quantitative perimeter. Over the years, this collaborative and constructive approach has become the true *fil rouge* of our Industry's *modus operandi*, always being ready to adapt to challenges whilst preserving asset quality and ensuring investor protection. The Fact Book represents the collective effort of our community to produce a prime academic and statistical benchmark publication, whilst coordinating a discussion forum involving over 2,000 covered bond experts and aficionados around the globe. Over the years, this community has been able to foster a covered bond philosophy with clear macroprudential characteristics for investors, thereby ensuring capital market accessibility and financial stability for mortgage and housing markets. More importantly, beyond the financial aspect, for most jurisdictions the introduction of covered bonds has also resulted in the provision of more affordable mortgages, more funding choices for lenders and more long-term borrowing options for consumers when they make the biggest investment of their life.

At the time of writing, most European Union Member States are working on the revision of or are drafting their national legislation aimed at implementing the European Covered Bond Directive. Several countries have already passed an official act, whilst others are finalising their legislative process with a view to meeting the Directive's transposition deadline of 8 July 2022. At the global level, the prospect of a third-party equivalence regime (due to be finalised by 2024) is boosting the interest in adopting covered bond legal frameworks and helping to make compliance with the qualitative standards foreseen in the Directive a clear point of reference for regulators and legislators.

The latest market trends indicate that, despite the broader economic and social duress caused by the COVID-19 pandemic, there has been an increase in the level of deposits held by customers and mortgage lending activity has generally increased in 2020, as both the number of outstanding residential loans and gross lending volume tended to increase across most European jurisdictions. Moreover, average house prices across the EU27 seem to be on a clear upward arc, indicating that supply and demand in the residential market are undergoing significant changes that could potentially have long-term effects for lenders and borrowers alike. Lastly, the monetary policy landscape, whether in Europe, the United States or elsewhere, is currently shrouded in some degree of uncertainty. Highly accommodative monetary policy conditions and a low interest environment have so far facil-

tated lending to the real economy and altered lenders' funding strategies. However, this development is likely to change as central banks aim to define their own post-pandemic policies.

Capturing the key trends in and drivers of these radical changes therefore represents a major challenge for all market participants and policymakers. At this historic time of unprecedented levels of fiscal support and monetary aid, it is crucial to preserve market intelligence and know-how to ensure the continued functioning of a private capital market which will be a key strategic asset in helping societies to implement a successful exit strategy from the public pandemic support mechanisms.

The EMF-ECBC seeks to be part of the solution and from the onset of the pandemic activated the Industry's best resources to monitor, analyse, discuss and guard against potentially negative impacts on mortgage, housing and funding markets in Europe. Over the past 18 months, the EMF-ECBC has sought to channel the Industry's reflections, proposals and concerns regarding the impact of the pandemic to national, European, and global authorities. As a community, we are committed to provide support towards a transition economy, encouraging countries to move from a pandemic mind-set towards a more sustainable capital markets infrastructure, and supporting consumers and borrowers in turning the current challenges into opportunities. Spaces have to adapt to different social uses, to new functions over time, without the need to constantly rebuild them.

We need to use our imagination, come up with visions and ideas of what the European private and public space will and should look like. This is clearly an opportunity to change not only finance and banking but urban planning, construction, manufacturing – to change the way we build, finance and live in cities and buildings. But it needs to be a comprehensive cultural project. This is a unique opportunity to bring attention, momentum to the European Green Deal.

We are entering a new age of banking, of constructing and operating buildings where digitalisation is changing everything. We talk about and start to see autonomous cars. What about autonomous houses with sophisticated sensors that can adapt to ambient temperature, humidity, to the presence of people, adapting spaces and minimising energy consumption? What about intelligent neighbourhoods or villages where communities share energy or other resources? This is an age where we need to combine high tech and no tech, artificial intelligence and nature.

We believe that a market green ecosystem with ESG covered bonds, Energy Efficient Mortgages, green European Secured Notes (ESNs) is paving the way for an Industry green road map. If Europe and the world really want to achieve net zero emissions, we need to reduce buildings' emissions, transform the way we inhabit our homes and our cities, and rethink mega infrastructures, energy infrastructures and mobility infrastructures. The way we finance these activities can influence this shift.

Whilst we could close our eyes and wait for the world to go back to its pre-pandemic norms, in reality we cannot ignore the strength of the winds of change blowing through our lives, our societies and our economies. We have all witnessed radical shifts in our daily life and business activities, some have been negative and others positive, and there is now a broad acceptance that we are in the midst of a generational turning-point. Indeed, we all know that more changes must come as the full impacts and consequences of the pandemic continue to reverberate.

Whilst vaccination rates are reaching high levels in most European countries at the time of writing and mindsets move towards the attentive monitoring and analysis of the market implications of a post-pandemic environment, in other regions of the world the pandemic remains very present.

From an economic standpoint, as highlighted by the Basel Committee on Banking Supervision's July 2021 report on Early lessons from the COVID-19 pandemic on the Basel reforms, the regulatory reforms introduced since the Global Financial Crisis (GFC) of 2008, namely the addition of higher quality capital and liquidity levels, have helped banks become more resilient and capable of absorbing the economic shocks caused by the coronavirus pandemic.

Likewise, thanks to the financial architecture implemented post-GFC, covered bonds have been positioned at heart of the Basel reforms where they are recognised as a crucial long-term macroprudential asset which helps

to secure financial stability. Throughout the pandemic, banks continued to lend and were able to finance this via covered bonds, thereby providing for other critical services that will help pave the way out of the crisis and financially support countries in addressing the impacts of the pandemic.

More specifically, we have seen a broad range of unprecedented interventions from policymakers and Central Banks at global, European and national levels in terms of fiscal support and monetary policies. This has facilitated a coordinated global effort to contain any economic and financial spill-over from the pandemic. These actions have served as a sanitary cordon protecting the real economy from violent shocks.

Mortgage and housing markets and the renovation of the building stock are at the heart of the recovery. Furthermore, they are seen as major priorities by policy makers in light of the significant macroeconomic leverage and financial stability they offer, with mortgages outstanding accounting for 46.1% of EU GDP. Moreover, at a microeconomic level, in every country mortgage and housing markets represent the direct link between consumer expectations and financial market best practices for investors, and issuer behaviour towards the required transition to a low/zero carbon economy.

Changing residential energy demands can play a key role in transitioning to a greener and more sustainable economy. Environmental psychology suggests that behavioural changes regarding energy use are affected by knowledge, awareness, motivation and social learning. Data on various behavioural drivers of change can explain energy use at the individual level. Consequently, an environmental, social and governance (ESG) revolution in the financial sector can help to stimulate a green mentality in consumers and stakeholders. In the same way, the building of a new ecosystem of energy efficient financial tools can have significant implications for macro energy demands at a regional and national level.

What does an ESG revolution imply for the financial sector? Well, we know that we can play a fundamental role in changing market best practices and in providing the real-life answer to this question. The answer could be simply that the banking sector is pivotal to helping fund the renovation wave through a systemic ESG approach, providing the cathartic boost for properties and the basics for accessing capital markets via green covered bonds and securitisations. We could say that every renovated home will pollute less, be less risky as an investment/asset, can increase the disposable income of borrowers and enhance the quality of our lives. All of this is feasible if we take the opportunity to build an ecosystem capable of delivering on citizens' expectations. In parallel, we must develop a more efficient capital market infrastructure optimising the use of private capital and investments, thereby allowing public resources to be focused on those other social needs where only the State can act.

With a holistic approach looking at the entire value chain from the asset-side (the green property and loan) through to liabilities (green covered bonds or securitisations), we can build a green cathartic mechanism on the balance sheets of banks and in investors' portfolios. Potentially, every mortgage loan can contain a seed that will germinate into part of the green recovery, motivating and helping consumers to improve the energy performance of their homes. This will trigger a cascade effect throughout the entire value chain, giving rise to a new, green ecosystem.

We have long witnessed a steady growth in the attention our members are giving to the issuance of ESG and green bonds, which are becoming increasingly important features of the European financial landscape. This is evidenced via the [Covered Bond Label](#) website, which now provides detailed transparency on green liabilities and cover assets. What started in 2017 as a simple self-certification<sup>1</sup> operation by labelled covered bond issuers to

<sup>1</sup> Through said self-certification the issuer declares that the bonds presenting a green leaf on the covered bond label website is "...a covered bond that is fully compliant with the Covered Bond Label Convention, and also includes a formal commitment by the issuer to use an amount equivalent to the proceeds of that same covered bond to (re)finance loans in clearly defined environmental (green), social or a combination of environmental and social (sustainable) criteria. Covered Bond Labelled sustainable covered bond programs are based on their issuer's sustainable bond framework which has been verified by an independent external assessment. The issuer strives, on a best-efforts basis, to replace eligible assets that have matured or are redeemed before the maturity of the bond by other eligible assets.  
[Against this background, please note that the EMF-ECBC is currently working on market initiatives which will ultimately define European criteria for energy efficiency covered bonds and sustainability standards]"

highlight (*shown by a green leaf on the Covered Bond Label website*) those of their bonds which are considered sustainable has now reached significant proportions: around 50 outstanding bonds in 10 jurisdictions<sup>2</sup> coming from 23 banks account for over EUR 30bn. of issuance. This volume equates to roughly 1% of the total number of covered bonds outstanding at the end of 2020, and to 1.5% in terms of new issuances during the same period. For 2021, the figures available on the Covered Bond Label website suggest that around 1.8% of new issuances are sustainable covered bonds. In particular it is interesting to see that the Nordics, together with South Korea, are especially keen on this type of product. This being said, a number of other core covered bond countries as well as newer players, like Poland, have now also started to issue sustainable covered bonds.

Alongside the Energy Efficient Mortgage Initiative ([EEMI](#)), the [Energy Efficient Mortgage \(EEM\) Label](#) is a new quality instrument allowing transparent identification of energy efficient mortgages for market stakeholders. The Label was launched in February 2021, with the support of the European Commission, and denotes a further effort that the EMF-ECBC is making towards the sustainable finance and real estate/building sectors, in compliance with the EU legal framework. Indeed, the Label allows easier access to energy efficiency financing, green bond markets, better tracking of EEM performance, provides greater transparency in relation to climate risks and portfolio resilience, and fights greenwashing. The Label enables lending institutions that are committed to continuous progress and improvement initiatives to disclose energy efficiency related data through the Label's Harmonised Disclosure Template ([HDT](#)) at least every quarter, and thereby jumpstart the investment and mortgage market for energy efficiency finance.

Amongst other relevant datapoints necessary to assess the credit quality of a mortgage or, more in general, a loan portfolio, the HDT is also focusing on the collection of specific data in order to assess a loans' ESG quality. Specifically, for the time being, data requirements on EPC, age structure of the relevant real estate, energy demand data, type of dwelling and the amount of new or existing real estate the portfolio represents is being considered. Several of these datapoints have only just started to be collected by financial institutions and often there is little temporal depth available. As such, the EEMI, working through the EEM Label, represents the first time a transnational effort has been made to produce comparable data through a harmonised template. Currently, this is available for 30 financial institutions from 13 different jurisdictions, covering 37 labelled Energy Efficient Mortgage products. Amongst these institutions, at the time of writing, some are already publishing initial ESG data and more are expected to follow suit shortly, with the bulk being expected to disclose some data by the end of the year.

Looking to the future for the covered bond world, we see a number of issues appearing on our (for now still) virtual desks: How can we secure support for the real economy and financial markets in this complex and dynamic environment? Are we on the edge of a potential economic worsening, with social downturn implications or will the recovery stabilise and lead us back to pre-pandemic market levels? What is the role of the covered bond asset class in the current and the medium-to-long-term scenarios? How can our community of issuers, investment banks, rating agencies, investors work together to be part of the solution in a post-pandemic environment?

As this Foreword looks to underscore, through the continuous fine-tuning of covered bond legislation, facilitation of market best practices, the fostering of market-led initiatives such as the Covered Bond Label, the Energy Efficient Mortgages Initiative and the Energy Efficient Mortgage Label, and – most importantly today – proactivity in the face of the COVID-19 pandemic, the covered bond community is constantly seeking to present solutions to the major challenges of our time.

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<sup>2</sup> Denmark, Finland, France, Germany, Italy, Norway, Poland, South Korea, Spain and Sweden

Throughout the recent months of lockdown, the basic functions of our organisation have been challenged in ways that were unexpected, in particular the capacity of the ECBC to meet physically, to act together as a market forum. To address this challenge and the need to maintain communication between the key market stakeholders, the ECBC has sought to mobilise its global network and keep alive the international collaborative spirit we have forged over the past 17 years. Having secured the necessary virtual platforms for exchange which allowed our working groups, committees and task forces to continue their activities, the EMF-ECBC took the lead in guiding over 2,000 market participants towards a coordinated set of actions. These have covered the finding of market consensus for proactive new best practices and market solutions such as moratoria, enhanced disclosures, implementation of quality labels, promoting new asset classes and so on. We want to play a leading role in paving the way for the Recovery and Green Deal strategies, and help maximise the opportunities to build a better future for the next generations.

We all know that we are stronger together and we would like to thank all ECBC members for their ideas and stamina during what have been challenging times. Against this backdrop, we would particularly like to express our gratitude to the contributors to this year's publication for their work in ensuring that, despite the exceptional circumstances of the past year, this 16th edition of the ECBC European Covered Bond Fact Book remains:

- > The leading source of covered bond market intelligence; and
- > The primary source for aggregate covered bond market data and statistics, and a comparative framework analysis.

Boudewijn Dierick  
ECBC Chairman

Luca Bertalot  
EMF-ECBC Secretary General



## **ABOUT THE ECBC**

The European Covered Bond Council (ECBC) is the platform that brings together covered bond market participants including covered bond issuers, analysts, investment bankers, rating agencies and a wide range of interested stakeholders. The ECBC was created by the European Mortgage Federation (EMF) in 2004. As of September 2021, the Council has over 125 members across 30 covered bonds jurisdictions and many different market segments. ECBC members represent over 95% of covered bonds outstanding. The ECBC and the EMF reintegrated in 2014 under a common umbrella entity, i.e. the Covered Bond & Mortgage Council (CBMC). The intention is to further develop synergies, share market best practices, achieve convergence across the whole value chain of this Industry, and, at the same time, to act as a market catalyst in origination and funding techniques.

Against this background, the purpose of the ECBC is to represent and promote the interests of covered bond market participants at the international level. The ECBC's main objective is to be the point of reference for matters regarding the covered bond industry and operate as a think-tank, as well as a lobbying and networking platform for covered bond market participants.

## **ECBC STRUCTURE**

The Plenary Meeting is a bi-annual discussion forum where all ECBC members gather around the table to discuss issues and to establish strong network links.

The ECBC Steering Committee, headed by the ECBC Chairman, and composed of representatives from the major covered bond issuing jurisdictions and industry experts, is responsible for the day-to-day activities of the ECBC. It comes together once every quarter and addresses strategy related questions. Furthermore, it coordinates the agenda of the various working groups.

## **ECBC WORKING GROUPS**

- > **The EU Legislation Working Group**, chaired by Mr Frank Will, has over the past years successfully lobbied at EU and international level to obtain appropriate treatment for covered bonds. As its name suggests, this Working Group monitors EU legislation with a specific relevance for covered bonds. Most recently, this has included Basel III and CRD IV/CRR, with a focus on the Net Stable Funding Requirement (NSFR) and the Fundamental Review of the Trading Book (FRTB).
- > **The Technical Issues Working Group**, chaired by Mr Agustin Martin Calmarza, represents the technical think tank of the covered bond community, drawing on experts from across the industry to tackle key issues for the industry. The Working Group tackles subjects relating to covered bonds such as the use and treatment of derivatives in the cover pool, bankruptcy remoteness and latest market developments. The Working Group manages and updates a database which provides an overview of covered bond frameworks across the EU and globally and enables their features to be compared (this is accessible at [www.ecbc.eu](http://www.ecbc.eu)).
- > **The Market Related Issues Working Group**, chaired by Mr Steffen Dahmer, discusses topics such as the MiFID review and conventions on trading standards and the market-making process.
- > **The Statistics and Data Working Group**, chaired by Mr Joost Beaumont, is responsible for collecting and publishing complete and up-to-date information on issuing activities and volumes outstanding of covered bonds in all market segments. With over 30 different covered bond jurisdictions and numerous issuers, the collection of data is of utmost importance, particularly given that the ECBC data is increasingly viewed as the key source of covered bond statistics.
- > **The Covered Bond Fact Book Working Group**, chaired by Mr Sascha Kullig, is responsible for the publication of the annual ECBC Covered Bond Fact Book. This publication covers market developments, as well as legislative frameworks in different countries and statistics.

- > **The Rating Agency Approaches Working Group**, chaired by Ms Elena Bortolotti, examines the rating approaches applied by credit rating agencies for covered bonds and, when necessary, convenes meetings and publishes position papers accordingly.
- > **The Global Issues Working Group**, chaired by Mr Colin Chen, focuses exclusively on covered bond issues from a global perspective in an effort to create synergies between traditional, new and emerging covered bond markets. The Working Group aims to allow the development of a more level playing field for all at a global level, helping to enhance transparency and convergence, and ensure a proper recognition of the macro prudential value of the covered bond asset class at a global level.

### **ECBC TASK FORCES**

In addition to the Working Groups, the ECBC has established the following topical Task Forces which consist of relevant covered bond market and legal experts from various jurisdictions at the EU and global levels: EMF-ECBC COVID-19 Recovery Task Force, ECBC Implementation Task Force, ECBC Task Force on Extendable Maturity Structures, ECBC European Secured Notes (ESN) Task Force, ECBC Transparency Task Force, ECBC Liquidity Task Force, ECBC Swap Task Force and ECBC Investor Task Force.

Membership of the ECBC continues to grow and its agenda for the coming year is already filled with numerous activities. The ECBC's objective now is to press ahead in its work with a view to further strengthening its role in facilitating the communication amongst the different covered bonds stakeholders, in working as a catalyst in defining the common features that characterise the asset class and in facilitating improvements in market practices, transparency and liquidity.

More information is available from <https://hypo.org/ecbc/>

Luca Bertalot,  
EMF-ECBC Secretary General

## **ECBC MEMBERS**

ABECIP – THE BRAZILIAN ASSOCIATION OF REAL ESTATE LOANS AND SAVINGS	CHIOMENTI
ABN AMRO	CITIGROUP GLOBAL MARKETS GERMANY
AIB MORTGAGE BANKS	CLIFFORD CHANCE LLP
AKTIA BANK PLC	COMMERZBANK SECURITIES
ALLEN & OVERY	COPENHAGEN ECONOMICS
ALPHA BANK A.E.	CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK
ALPHA BANK ROMANIA	CRÉDIT AGRICOLE HOME LOAN SFH
ASSOCIATION OF DANISH MORTGAGE BANKS (REALKREDITRÅDET – FINANCE DENMARK)	CREDIT FONCIER DE FRANCE / COMPAGNIE DE FINANCEMENT FONCIER
ASSOCIATION OF SWEDISH COVERED BOND ISSUERS – ASCB	CREDIT MUTUEL-CIC HOME LOAN SFH
AUSTRALIAN SECURITISATION FORUM (ASF)	CRÉDIT MUTUEL ARKÉA
AUXMONEY INVESTMENTS LTD	CREDIT SUISSE
AXA BANK EUROPE SCF	CRIF
AXA HOME LOAN SFH	DANISH SHIP FINANCE
BANCO BPM S.P.A.	DANSKE BANK
BANCO COMERCIAL PORTUGUÊS S.A. (GOH PORTUGAL)	DBRS MORNINGSTAR CREDIT RATINGS
BANK OF IRELAND MORTGAGE BANK	DE VOLKS BANK NV
BANKIA	DEPFA ACS BANK
BANKING & PAYMENTS FEDERATION IRELAND – BPFI /ACS IRELAND	DEUTSCHE BANK AG
BANQUE FÉDÉRALE DES BANQUES POPULAIRES – BPCE	DLR KREDIT A/S
BARCLAYS	DNB BOLIGKREDITT
BAYERISCHE LANDES BANK – BAYERN LB	DUTCH ASSOCIATION OF COVERED BOND ISSUERS – DACB
BELFIUS BANK	DZ BANK
BERLIN HYP AG	DZ HYP
BNP PARIBAS	EEA COVERED BOND BANK PLC
BNP PARIBAS FORTIS	EIKA BOLIGKREDITT AS
CAISSE DE REFINEMENT DE L'HABITAT – CRH	EUROMONEY CONFERENCES
CAISSE FRANCAISE DE FINANCEMENT LOCAL – CAFFIL	EUROPEAN AVM ALLIANCE – EAA
CANADA MORTGAGE AND HOUSING CORPORATION – CMHC	EUROPEAN DATAWAREHOUSE GMBH
CANADIAN IMPERIAL BANK OF COMMERCE – CIBC	FÉDÉRATION DES CAISSES DESJARDINS DU QUÉBEC
	FINANCE FINLAND
	FINANCE NORWAY – FNO
	FITCH RATINGS LTD

GRUPO BBVA	NYKREDIT A/S
GRUPPO BANCA CARIGE	OP MORTGAGE BANK
HSBC SFH FINANCE	PBB DEUTSCHE PFANDBRIEFBANK AG
HUNGARIAN BANKING ASSOCIATION	PFANDBRIEF & COVERED BOND FORUM AUSTRIA
HYPOPORT/INTERTRUST	PFANDBRIEFBANK SCHWEIZERISCHER
ING BELGIUM	HYPOTHEKARINSTITUTE
ING GROUP	PKO BANK HIPOTECZNY
INTESA SANPAOLO	PWC LUXEMBOURG
ITALIAN BANKING ASSOCIATION – ASSOCIAZIONE BANCARIA ITALIANA – ABI	RABOBANK
JP MORGAN	REALKREDIT DANEMARK A/S
JYSKE REALKREDIT A/S	ROYAL BANK OF CANADA – RBC
KBC BANK	S&P GLOBAL RATINGS
KOREA HOUSING FINANCE CORPORATION – KHFC	SANTANDER UK PLC
LA BANQUE POSTALE HOME LOAN SFH	SCOPE RATINGS GMBH
LANDES BANK BADEN-WÜRTTEMBERG – LBBW	SOCIÉTÉ GÉNÉRALE CORPORATE & INVESTMENT BANKING
LANDES BANK HESSEN-THÜRINGEN – HELABA	SOCIÉTÉ GÉNÉRALE SOCIÉTÉ DE CRÉDIT FONCIER – SG SCF
LINKLATERS BUSINESS SERVICES LLP	SP MORTGAGE BANK
LLOYDS BANKING GROUP	SPANISH MORTGAGE ASSOCIATION – ASOCIACION HIPOTECARIA ESPAÑOLA – AHE
LUMINOR BANK AS	SUMITOMO MITSUI BANKING CORPORATION (SMBC)
LUXEMBOURG BANKERS' ASSOCIATION – ABBL	SVENSKA HANDELSBANKEN – STADSHYPOTEK
MBANK HIPOTECZNY	SWEDBANK AB
MODE FINANCE	TAO SOLUTIONS
MOODY'S	THE ASSOCIATION OF BANKS IN SINGAPORE – ABS
MÜNCHENER HYPOTHEKENBANK EG	THE MORTGAGE SOCIETY OF FINLAND
NATIONAL BANK OF GREECE S.A. – NBG	TXS GMBH
NATIONALE NEDERLANDEN BANK N.V. (NN BANK)	UBS
NATIONWIDE BUILDING SOCIETY	UK REGULATED COVERED BOND COUNCIL – UKRCBC
NATIXIS	UNICREDIT GROUP
NATWEST MARKETS	VALIANT BANK AG
NIBC BANK N.V.	VERBAND DEUTSCHER PFANDBRIEFBANKEN – VDP
NOMURA INTERNATIONAL PLC	WHITE & CASE
NORDDEUTSCHE LANDES BANK GIROZENTRALE	
NORDEA BANK AB	
NOVO BANCO SA	

September 2021



### COVERED BOND LABEL

The Covered Bond Label is a quality Label which responds to a market-wide request for common qualitative and quantitative standards and for an enhanced level of transparency and comparability in the European covered bond market. The Label:

- > Establishes a clear perimeter for the asset class and highlights the core standards and quality of covered bonds;
- > Increases transparency;
- > Improves access to information for investors, regulators and other market participants;
- > Has the additional objective of improving liquidity in covered bonds;
- > Positions the covered bond asset class with respect to regulatory challenges (CRD IV/CRR, Solvency II, redesign of ECB repo rules, etc.).

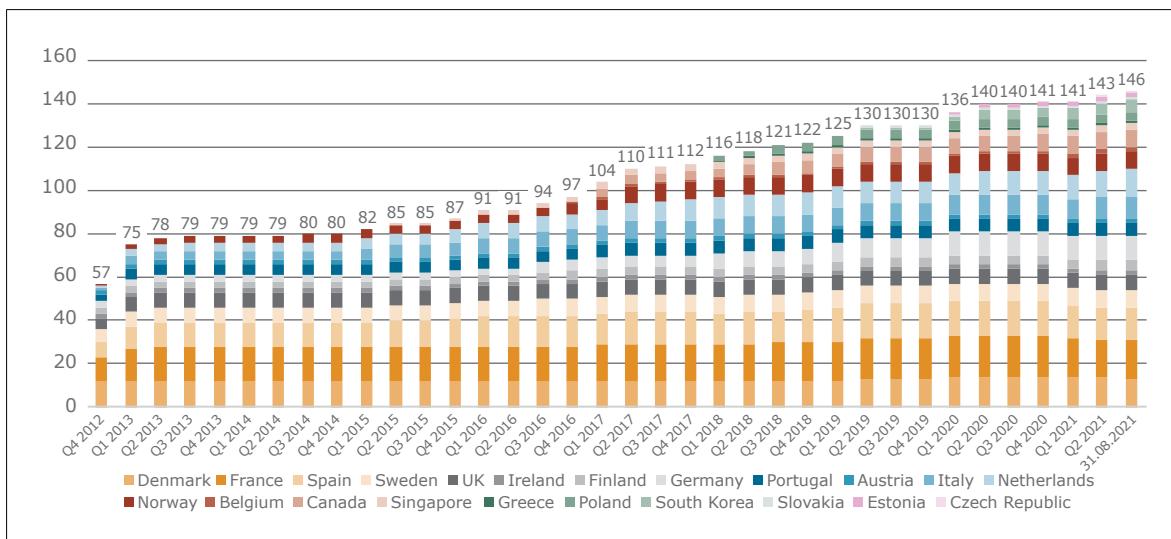
The Covered Bond Label Foundation (CBLF) was founded by the EMF-ECBC in 2012 and it was developed by the European issuer community, working in close cooperation with investors, regulators, and rating agencies and in consultation with all major stakeholders. The Label website became fully operational in January 2013, with the first Labels being granted since then.

As of August 2021, visitors can find the Harmonised Transparency Template (HTT) and 14 National Transparency Templates, 117 issuer profiles and information on 146 labelled cover pools with issuance data on over 5,200 covered bonds amounting to a total face value of around EUR 1.9 tn. In the first half of 2021, one new jurisdiction, Czechia, joined the Covered Bond Label family thus marking an important step of the Label in providing transparency and standards in upcoming covered bond markets. In this period the Label marked as well a further expansion in the Belgian, Italian and South Korean markets as more issuers decided to join.

The Label is based on the Covered Bond Label Convention (the one currently in force is 2020 Label Convention please see below), which defines the core characteristics required for a covered bond programme to qualify for the Label.

The Covered Bond Label Foundation (CBLF) granted the first Non-European Economic Area (non-EEA) Label in 2015. In February 2016, the first non-EEA global issuer published the HTT followed by the first European issuers. Currently, 17 out of 146 pools are from outside the EEA.

> FIGURE 1: EVOLUTION OF LABELLED COVER POOLS

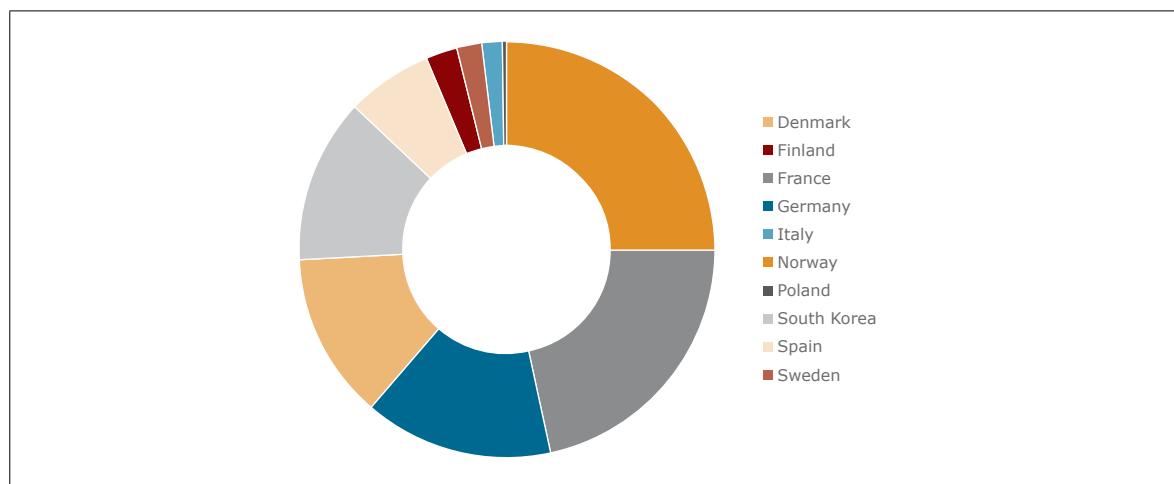


The HTT is the worldwide standardised, Excel-based form that issuers who have been granted the Covered Bond Label use to disclose information on their covered bond programmes. Definitions and format of the disclosed information are standardised to increase comparability and transparency between issuers and between jurisdictions. Standardisation facilitates investors' due diligence, enhancing overall transparency in the Covered Bond market. The HTT, designed to be fully compliant with Art. 129(7) CRR transparency requirements, undergoes constant review, stirred by the Covered Bond Label Committee and the Covered Bond Label Advisory Council, so to be always up-to-date with regulatory and market requirements. Additional country-specific information on the covered bond programmes can be found in the National Transparency Templates often included in the HTT.

The HTT presents a significant achievement in terms of convergence of market best practices and a substantial step forward in enhancing transparency in the covered bond space both in Europe and across the globe. The HTT is a particularly positive step for the market and especially for global investors, who will be able to perform their due diligence activities more easily and obtain issuers' data ranging from asset and liability side information to legislative details from different countries in a more comparable way. Over the last year in order to provide the possibility to show the impact of COVID-19 on the cover pool the HTT has included an optional tab where data mortgage moratoria in the cover pool can be displayed. Moreover since the last HTT revision the HTT presents also various datapoints on the ESG dimension, such as data on EPC, age structure and energy demand of dwellings used as collateral for mortgages in the cover pool. These additions prove the proactiveness of the Covered Bond Label Community to provide relevant and timely data in order to promote the high transparency and comparability standards for which the Label is known for.

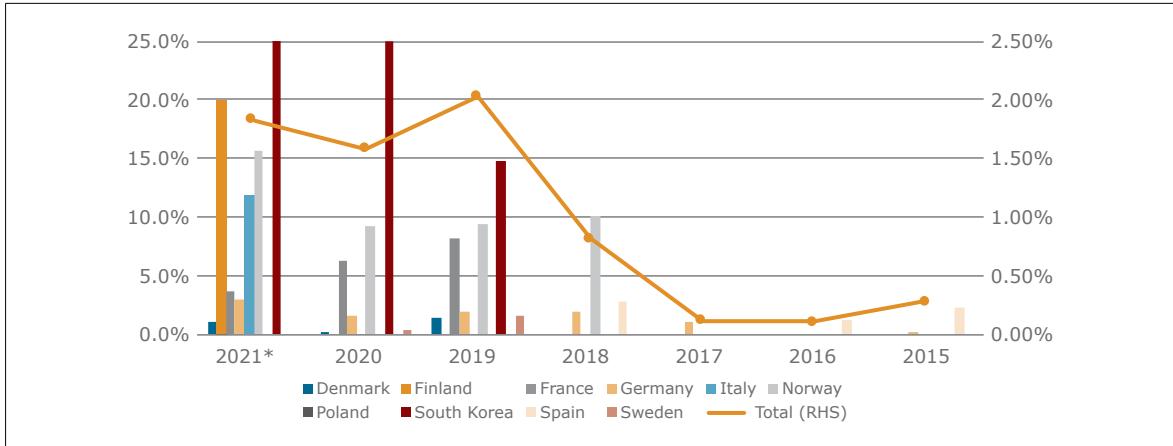
The addition of ESG data in the HTT rests on the steadily growing attention being paid by our members to the issuance of sustainable covered bonds, which are becoming an increasingly important feature of the European financial landscape. What has started in 2017 as a just a self-certification operated by labelled covered bond issuers to flag with a green leaf on the covered bond label website those bonds which are considered sustainable has now reached significant proportions with nearly 50 outstanding bonds in 10 jurisdictions and 23 banks accounting for over EUR 30bn. From the latest figures available this volume amounts to roughly 1% of total covered bond outstanding end 2020, and to 1.5% in terms of new issuances during the same period and for 2021 the available figures on the label website suggest that around 1.8% of new issuances are sustainable covered bonds. It is interesting to see that especially the Nordics together with South Korea are particularly keen on this product but also other core covered bond countries and also new players as Poland have started to issue sustainable covered bonds.

> FIGURE 2A: OUTSTANDING SUSTAINABLE COVERED BONDS (STATUS JULY 2021)



Source: Covered Bond Label

> FIGURE 2B: PROGRESSION OF SUSTAINABLE COVERED BONDS AS A PERCENTAGE OF TOTAL ISSUANCE



Source: Covered Bond Label

\*data for 2021 refers until August 2021

## **2020 Covered Bond Label Convention**

Covered bonds are debt securities, backed by mortgage, public sector or ship assets, and characterised by a twofold bondholders' protection mechanism rooted in a dedicated covered bond legal framework.

In more details:

### **I Legislation safeguards**

- a) The CB programme is embedded in a dedicated national CB legislation;
- b) The bond is issued by -or bondholders otherwise have full recourse, direct or indirect<sup>1</sup>, to- a credit institution which is subject to public regulation and supervision;
- c) The obligations of the credit institution in respect of the cover pool are supervised by public supervisory authorities.

### **II Security features intrinsic to the CB product**

- a) Bondholders have a dual claim against:
  - i. The issuing credit institution as referred to in point I b);
  - ii. A cover pool of financial assets<sup>2</sup> (mortgage, public sector or ship assets), ranking senior to the unsecured creditors.
- b) The credit institution has the ongoing obligation to maintain sufficient assets in the cover pool to satisfy the claims of covered bondholders at all times.
- c) Issuers are committed to providing regular information enabling investors to analyse the cover pool, following the Harmonised Transparency Template<sup>3</sup> and in compliance with the transparency requirements of Article 129(7) of the CRR.

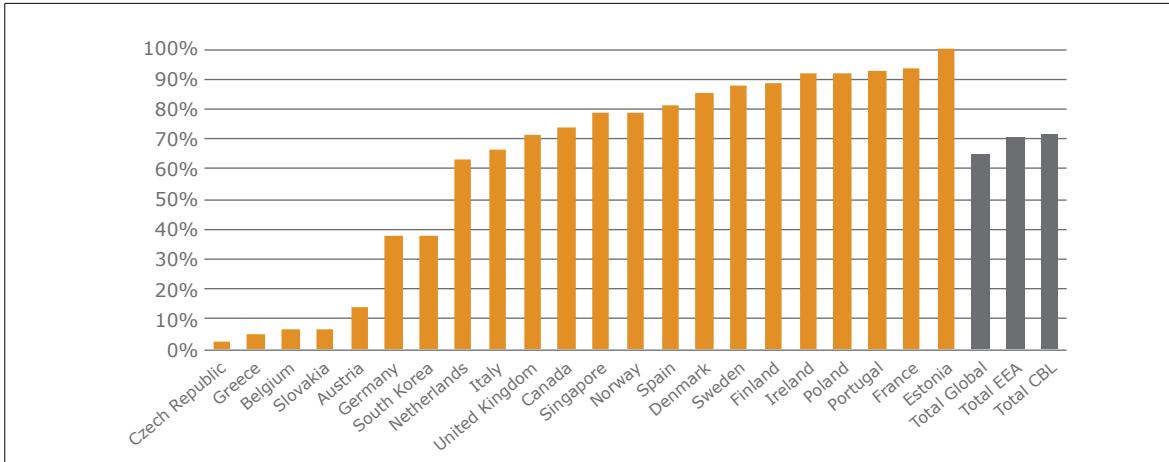
For further information on the Covered Bond Label Convention, visit <https://www.coveredbondlabel.com/>

1 Including pooling models consisting only of covered bonds issued by credit institutions.

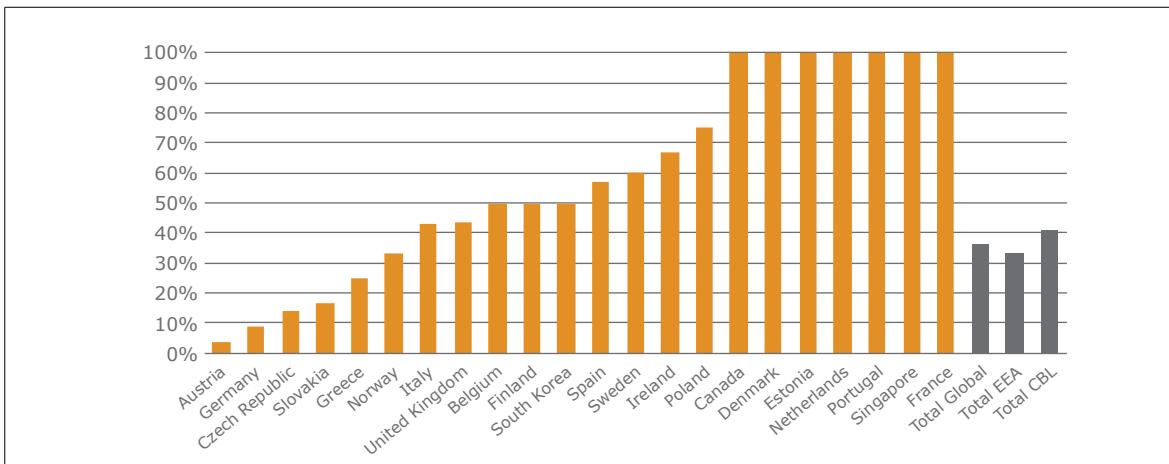
2 The financial assets eligible for the cover pool (including substitution assets and derivative instruments) and their characteristics are defined in the national covered bond legislation which complies with the requirements of Article 52(4) of the UCITS Directive and Article 129 of the CRR, as well as those articles which specify its implementation, including a waiver for the requirement for the issuer to be based in the European Economic Area (EEA), allowing non-EEA LCR compliant covered bonds programmes to be eligible for the Label. Non-EEA Labels will be identified on the Covered Bond Label website in a different graphic solution to EEA Labels.

3 The enhanced Harmonised Transparency Template 2021 will enter into force at the end of the first quarter of 2021 and will be a binding requirement for the granting and renewal of the Covered Bond Label.

> FIGURE 3A: MARKET SHARE COVERED BOND LABEL BY OUTSTANDING



> FIGURE 3B: MARKET SHARE COVERED BOND LABEL BY ISSUER



The data on the total covered bond market is based on end-2020 values, whereas data on the Covered Bond Label is based on data of July 2021. Considering the current contraction of the CB market in 2021 you can notice in certain countries, most notably for those with a complete issuers coverage, an underrepresentation in the outstanding figures in the Covered Bond Label.

## LABELLED COVER POOLS

### AUSTRIA

UniCredit Bank Austria AG Credit Public Sector  
UniCredit Bank Austria AG Credit Mortgage

### BELGIUM

BNP Paribas Fortis Mortgage Pandbrieven  
Argenta Spaarbank Belgian Mortgage Pandbrieven

### CANADA

Bank of Montreal Cover Pool  
CCDQ Covered Bond (Legislative) Guarantor Limited Partnership  
CIBC Legislative  
HSBC Legislative Covered Bond Guarantor LP  
National Bank of Canada Legislative Covered Bonds  
RBC Covered Bond Guarantor LP  
Scotiabank Covered Bond Guarantor Limited Partnership  
TD Legislative Covered Bonds

**CZECH Republic**

Komercni\_banku\_HZL\_EUR\_0001

**DENMARK**

Jyske REalkredit A/S Capital Center E  
Danish Ship Finance A/S Capital Centre A  
Danish Ship Finance General Capital Center  
Danske Bank A/S Cover Pool D – Denmark  
Danske Bank A/S Cover Pool I – International  
Danske Bank A/S Cover Pool C – Commercial  
DLR Kredit A/S Capital Centre B  
Nordea Kredit Realkreditaktieselskab A/S  
Capital Center 1  
Nordea Kredit Realkreditaktieselskab A/S  
Capital Center 2  
Nykredit Realkredit A/S Capital Centre E  
Nykredit Realkredit A/S Capital Centre H  
Realkredit Danmark A/S Capital Centre S  
Realkredit Danmark A/S Capital Centre T

**ESTONIA**

Luminor Bank AS Euro Medium Term Note  
LHV Pank AS LHV CB1

**FINLAND**

Danske Mortgage Bank Plc, Pool 1  
Nordea Mortgage Bank Plc  
OP Mortgage Bank EMTCN  
OP Mortgage Bank EMTRCN  
Sp Mortgage Bank Plc, SP-01

**FRANCE**

AXA Home Loan SFH  
AXA Bank Europe SCF  
BNP Paribas Home Loan SFH  
BPCE Home Loan SFH  
Caisse de Refinancement de l'Habitat, CRH  
Caisse Française de Financement Local  
CIF Euromortgage  
Compagnie de Financement Foncier  
Credit Agricole Home Loan SFH  
Credit Agricole Public Sector SCF  
Crédit Mutuel – CIC Home Loan SFH  
Crédit Mutuel Arkéa Home Loans SFH  
Crédit Mutuel Arkéa Public Sector SCF  
HSBC SFH (France)La Banque Postale Home Loan SFH  
MMB SCF  
SG Credit Public Sector SCF  
SG Credit Home Loan SFH

**GERMANY**

LBBW Mortgage Cover Pool  
LBBW Public Sector Cover Pool  
Berlin Hyp AG – BHH Mortgage Pfandbrief  
Münchener Hypothekenbank eG – MHB  
Mortgage Pfandbrief  
NORD/LB Public Sector  
ppb Mortgage Pfandbrief  
ppb Public Sector Pfandbrief  
UniCredit Bank AG - HVB Mortgage  
UniCredit Bank AG - HVB Public  
DZ HYP AG – Mortgage Pfandbrief  
DZ HYP AG – Public Sector Pfandbrief

**GREECE**

Alpha Bank Covered Bond Programme I

**IRELAND**

AIB Mortgage Bank ACS (Asset Covered Securities)  
Bank of Ireland Mortgages ACS – (Asset Covered  
Securities)

**ITALY**

Crédit Agricole Italia OBG S.p.A  
Banca Carige S.p.A. Credit Home/Commercial Loan  
Banco Popolare de Milano, Bpm OBG2  
Intesa Sanpaolo S.p.A. ISP CB Ipotecario S.r.l.  
Intesa Sanpaolo S.p.A. ISP CB Pubblico S.r.l.  
Intesa Sanpaolo S.p.A. OBG S.r.l.  
Intesa Sanpaolo S.p.A. UBI FINANCE S.r.l.  
UniCredit S.p.A. BpC Mortgage s.r.l.  
UniCredit S.p.A. OBG srl  
Südtiroler Volksbank Banca Popolare dell'Alto Adige  
Voba CB S.r.l.

**NETHERLANDS**

ABN AMRO Covered Bond Programme  
Achmea Bank CPT Cover Pool  
Achmea Bank SB Cover Pool  
Aegon Bank CPT Cover Pool  
Aegon Bank SB Cover Pool  
Van Lanschot Bankiers N.V. Conditional Pass Through  
Covered Bond Programme  
ING Bank N.V.  
ING Bank Soft Bullet  
NIBC Bank N.V. Conditional Pass-Through Covered  
Bond Programme  
NN Bank Soft Bullet Cover Pool  
NN Bank CPT Cover Pool  
Volks Covered Bond Company B.V.  
Rabobank

## **NORWAY**

DNB Boligkreditt AS mortgage cover pool  
Eika Boligkreditt AS (EIKBOL)  
Møre Boligkreditt mortgage cover pool  
Nordea Eiendomskreditt AS cover pool  
SpareBank 1 Boligkreditt (Spabol)  
Sparebanken Sør Boligkreditt AS cover pool  
Sparebanken Vest Boligkreditt AS  
SR-Boligkreditt mortgage cover pool

## **POLAND**

Pekao BH mortgage  
Pekao BH public sector  
mBank Hipoteczny S.A. – Mortgage Cover Pool  
PKO Bank Hipoteczny SA

## **PORTUGAL**

Banco BPI S.A. Mortgage Cover Pool  
Banco Comercial Português, S.A. – Residential Mortgages  
Banco Santander Totta, S.A.  
Caixa Económica Montepio Geral (CEMG)  
Caixa Geral de Depósitos, S.A. Mortgage Cover Pool  
NOVO BANCO Conditional Pass-Through Covered Bond Programme

## **REPUBLIC OF KOREA (SOUTH)**

KHFC 2019 EUR 500 million Social Covered Bond due Jun 2024  
KHFC 2020 EUR 1 billion Social Covered Bond due Feb 2025  
Kookmin Bank USD 7 billion Global Covered Bond Programme  
KHFC 2020 EUR 500 million Social Covered Bond due July 2025  
KHFC 2021 EUR 1 billion Social Covered Bond due June 2026  
KEB Hana Bank USD 5 billion Global Covered Bond Programme

## **SINGAPORE**

DBS Bank Limited USD10 billion Global Covered Bond Programme  
OCBC Limited USD 10b Global Covered Bond Programme  
United Overseas Bank Limited USD8 billion Global Covered Bond Programme

## **SLOVAK REPUBLIC**

Prima banka Slovensko a.s. PB Cover Pool 1

## **SPAIN**

Banco de Sabadell, S.A. Covered Bond Programme  
Banco de Sabadell, Public Sector Programme  
CaixaBank SA, Mortgage Loans  
CaixaBank SA, Public Loans  
Banco Santander S.A., Santander Mortgage Covered Bonds  
Kutxabank S.A., Kutxabank S.A.  
Unicaja Banca, S.A., Unicaja Banco Mortgage Covered Bonds  
BBVA, Covered Bond Programme  
BBVA, Public Sector Covered Bond Programme  
Bankinter S.A., Bankinter S.A.  
Ibercaja Banca S.A, Ibercaja Banco S.A.  
Eurocaja Rural, Eurocaja Rural  
Caja Rural de Navarra Credit Cooperative, Covered Bond  
ABANCA Corporación Bancaria S.A., Grupo Cooperativo Cajamar, Cajamar Mortgage

## **SWEDEN**

Länsförsäkringar Hypotek  
Skandinaviska Enskilda Banken AB, SEB Cover Pool  
Nordea Hypotek cover pool  
Stadshypotek Finnish pool  
Stadshypotek AB (publ) Swedish Pool  
Stadshypotek AB (publ) Norwegian Pool  
Swedbank Mortgage AB cover pool  
The Swedish Covered Bond Corporation

## **UK**

NatWest Covered Bond Programme  
Clydesdale Bank PLC €10 billion Global Covered Bond Programme  
Coventry Building Society 1006  
Lloyds Bank plc EUR60bn Global Covered Bond Programme  
Nationwide Building Society Covered Bond LLP  
Santander UK plc  
Yorkshire Building Society Covered Bonds





## CHAPTER 1 - KEY THEMES OF THE YEAR



## **1.1 LONG TERM FINANCING FOR LOCAL PUBLIC SECTOR GREEN AND SOCIAL INVESTMENTS**

By Ralf Berninger, SFIL

### **INTRODUCTION**

Across Europe, local governments are responsible for a large share of public investments. Many of these investments have important social and environmental objectives in areas including education, public transport, public healthcare, waste management and water management.

Local authorities mainly rely on the loan market to finance these investments. In many European countries, local government lenders are in turn to a significant extent using the covered bond market to refinance these loans to local government entities.

### **ELIGIBILITY OF LOCAL GOVERNMENT LENDING UNDER EUROPEAN COVERED BOND REGULATION**

Loans to local authorities or guaranteed by local authorities within the European Union are eligible as cover pool assets compliant with the definition provided by article 129 of the CRR. A number of additional conditions apply for loans to local authorities outside the European Union. The amendments to article 129 of the CRR as part of the covered bond harmonization package have not changed the eligibility of local and regional government loans:

1. To be eligible for the preferential treatment ..., bonds ...shall be collateralized by any of the following eligible assets:
  - (a) exposures to or guaranteed by central governments, ESCB central banks, public sector entities, regional governments or local authorities in the Union;
  - (b) ... exposures to or guaranteed by ...third-country regional governments or third-country local authorities that are risk weighted as exposures to institutions or central governments and central banks ... and that qualify for the credit quality step 1 ..., and exposures within the meaning of this point that qualify as a minimum for the credit quality step 2 ..., provided that they do not exceed 20% of the nominal amount of outstanding covered bonds of the issuing institutions.

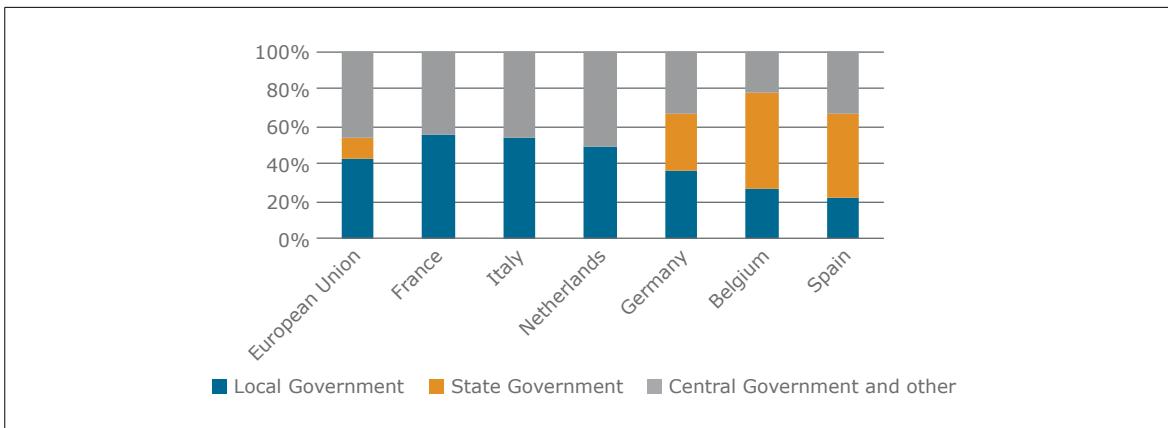
### **IMPORTANCE OF LOCAL GOVERNMENT FOR PUBLIC INFRASTRUCTURE INVESTMENTS**

Local governments exercise a wide range of responsibilities across Europe. Important differences exist from one country to the other. In many countries, local governments play a key role in areas including:

- > Local infrastructure, including the local rail and road network;
- > Primary and secondary education;
- > Basic services such as drinking water supply, sewerage, waste collection and treatment;
- > Urban planning and development;
- > Parts of the public health care system;
- > Public order and safety, in particular municipal police forces and fire-fighting services;
- > Social housing.

Overall, local government contribute to close half of total public sector investments across the European Union. It is important to note that official statistics differentiate between state governments – in Spain, Germany, Austria, and Belgium – with a high degree of financial autonomy, and the local government level.

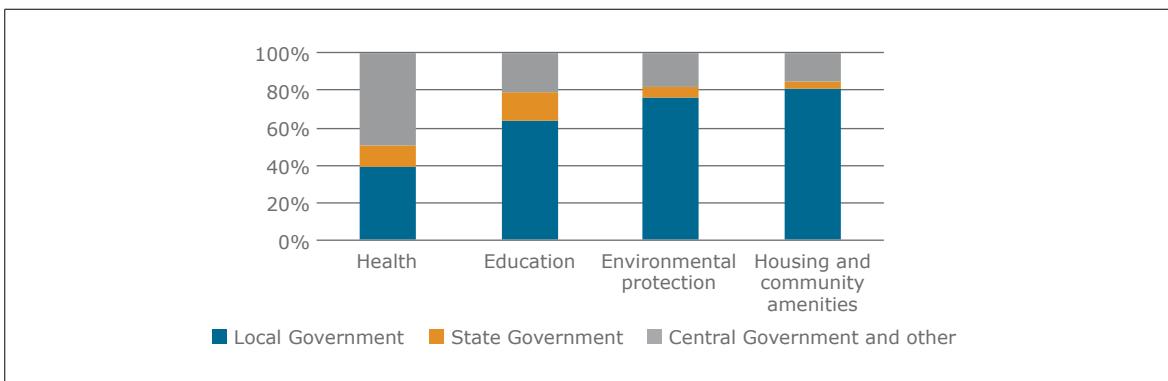
> FIGURE 1: LOCAL GOVERNMENT SHARE OF PUBLIC INVESTMENTS 2020



Source: Eurostat

In particular, local and regional government investments play an important role in areas that are important from a social and environmental perspective, including education, public healthcare, environmental protection including waste and water management, and social housing.

> FIGURE 2: EUROPEAN UNION LOCAL GOVERNMENT SHARE OF PUBLIC INVESTMENTS IN SELECTED AREAS IN 2019



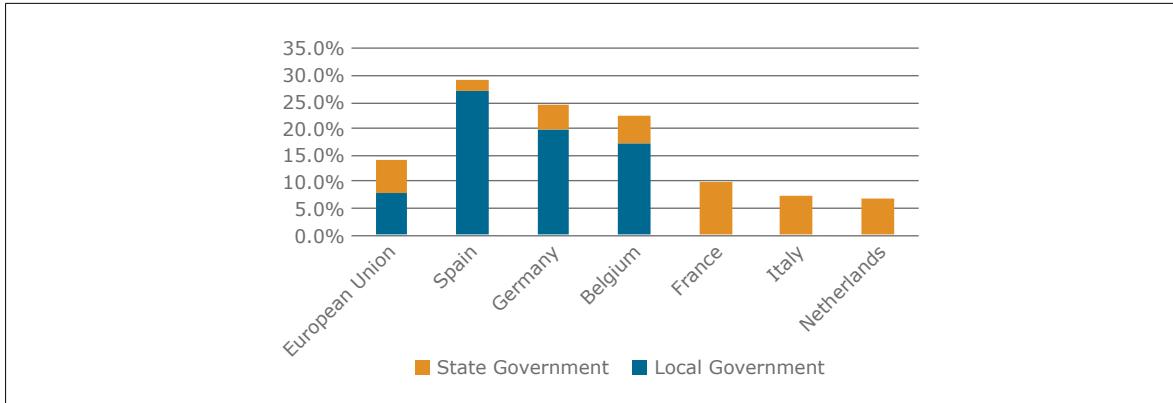
Source: Eurostat

Important differences exist with respect to budget rules for the local public sector from one country to the other. However, the principle of the golden fiscal rule applies one way or the other across most of Europe:

- > local authorities are prohibited from running deficits to finance operating expenditures;
- > new borrowing is only authorized to finance investments.

Because of these strict budget rules, local authorities only contribute a relatively small share of total public sector debt and deficits in Europe. Total European Union local authority debt – excluding debt on state government level in the case of Germany, Austria, Spain and Belgium – represents less than 10% of GDP.

> FIGURE 3: LOCAL AND STATE GOVERNMENT DEBT AS PERCENTAGE OF GDP 2020



Source: Eurostat

#### **FINANCING SOURCES FOR LOCAL GOVERNMENT INVESTMENTS**

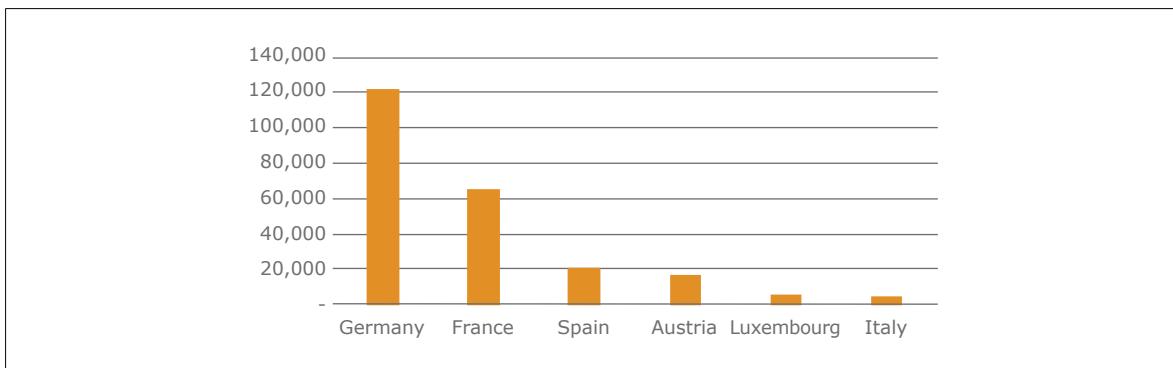
Local authorities generally lack the critical size for direct bond issuance on international capital markets. Bond issuance by sub-sovereign issuers is to large extent limited to the state government level, in particular to German Länder. Issuance by German Länder in the capital markets represents around 75% of the European Union sub-sovereign issuance.

For local authorities, bond issuance represents less than 10% of outstanding debt, with local governments across Europe relying almost exclusively on the loan market as source of funding.

#### **LOCAL GOVERNMENT FINANCING PROVIDED BY COVERED BOND ISSUERS**

Covered bonds often represent an attractive refinancing instrument for local government lenders. Covered bonds provide issuers with a possibility to provide a large number of small loans to local government borrowers, and to refinance these assets via the issuance of liquid covered bond transactions. For investors, these instruments provide a high degree of liquidity and a very strong credit quality. Germany and France are currently by far the largest markets in terms of issuance with over EUR 180 billion outstanding covered bonds for these two markets together.

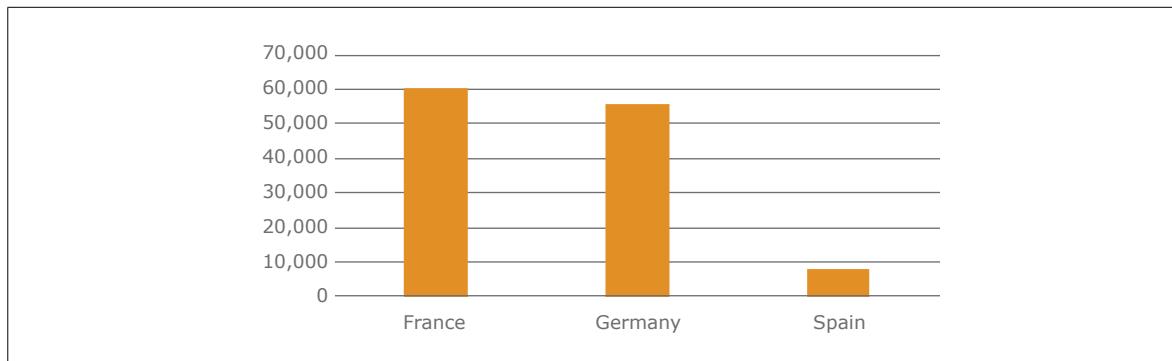
> FIGURE 4: OUTSTANDING PUBLIC SECTOR COVERED BONDS (EUR M) AS OF 31.12.2019



Source: ECBC

Covered bonds are well established as refinancing instruments in a number of European countries including France, Germany and Spain. Exposures by covered bond issuers to local authorities in France amount to little bit more than EUR 60 billion, based on the cover pool data provided by covered bond issuers. For Germany, when looking only at the local government level and excluding financing provided to German Länder, this figure stands at well above EUR 50 billion, and for Spain close to EUR 8 billion.

> FIGURE 5: OUTSTANDING LOCAL GOVERNMENT EXPOSURES FINANCED BY COVERED BOND ISSUERS AS OF 31.12.2020 (EUR M)

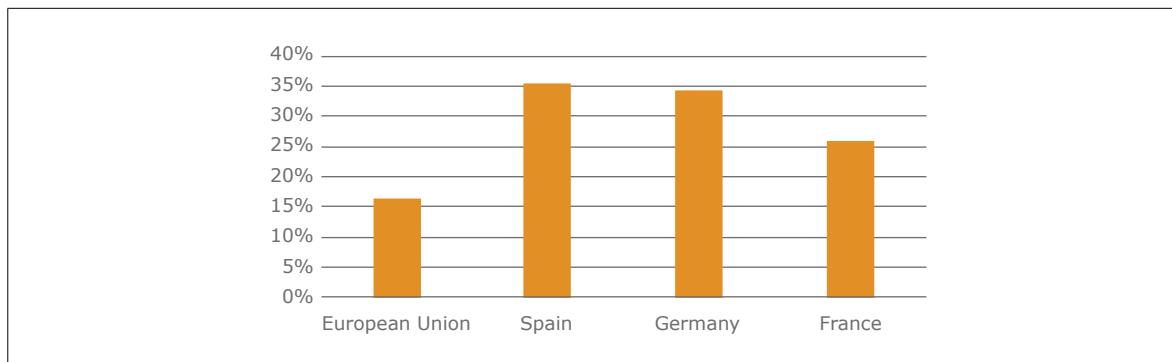


Source: ECBC Covered Bond Label Templates, vdp

Overall, covered bond issuers provide a significant share of funding to local authorities across Europe. Based on the available cover pool data, over EUR 130 billion in claims against local against local government entities in the European Union are refinanced by covered bond issuers. This represents well over 15% of the total European Union local government debt.

Looking at France, Germany and Spain with a well-established public sector covered bond market, the contribution by covered bond issuers is much higher. Based on the cover pool data published by issuers, lending provided by covered bond issuers represents more than 25% of French local government debt, and around 35% of local government debt for Germany and Spain.

> FIGURE 6: ESTIMATED SHARE OF LOCAL GOVERNMENT DEBT HELD BY COVERED BOND ISSUERS AS OF 31.12.2020



Source: ECBC Covered Bond Label Templates, vdp, Eurostat

## **DECLINING VOLUMES IN OUTSTANDING PUBLIC SECTOR COVERED BONDS**

The outstanding volume of public sector covered bonds has witnessed a steep decline over the past 10 years. The volume of outstanding bonds has declined by more than 60% to EUR 282 billion at the end of 2019 compared to EUR 733 billion in 2009.

This decline was to large extent driven by declining volumes in the German public sector Pfandbrief market. Outstanding volumes declined from 484 billion in 2009 to EUR 121 billion in 2019. Over the same period, outstanding volumes for public sector covered bonds from France have remained relatively stable at EUR 65 billion in 2019 compared to 72 billion in 2009. Outstanding volumes of Spanish public sector covered bonds increased slightly from EUR 17 billion to EUR 21 billion over the same period of time.

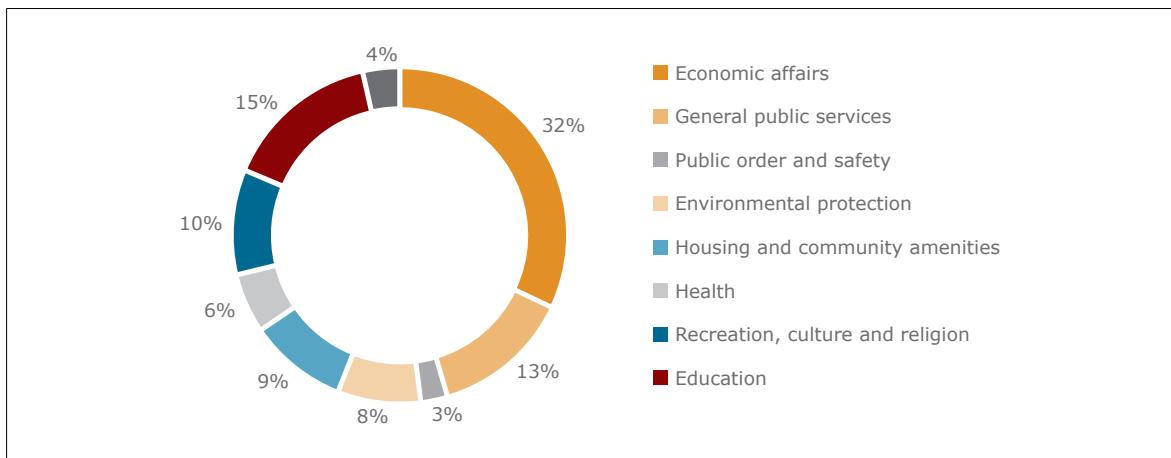
Public sector covered bonds can be used to refinance a wide range of public sector exposures. The traditional lending business to municipalities has been much more stable than the overall issuance volumes suggest. For example, exposures of German Pfandbrief issuers to German municipalities stood at a total level of EUR 54 billion at the end of 2019, compared to a level of EUR 69 billion at the end of 2009. This represents a reduction of around 20% compared to a decline of more than 60% in outstanding German public sector covered bonds over the same period.

## **FINANCING GREEN AND SOCIAL INVESTMENTS**

The total volume of investments by local governments in the European Union was just below EUR 200 billion for the year 2019. A significant part of local government investments has important social and environmental objectives. As an illustration, public education represented more than 15% of these investments, with environmental protection (including waste management and water management) representing around 8% and public healthcare representing around 5% of total local government investments.

Looking at the distribution of European local government investments below, it is clear that a large of these investments has clear environmental and social objectives.

> FIGURE 7: EUROPEAN UNION LOCAL GOVERNMENT INVESTMENT 2019 BY SECTOR



Source: Eurostat

Green and social public sector covered bonds (please see articles 1.6 and 1.7) have been issued with financing provided to areas including healthcare, water management, waste management and clean local public transport. However, green and social bond issuance under public sector covered bond format has remained relatively limited compared to issuance of green and social mortgage covered bonds. One reason is that local government lending is generally provided as general purpose lending to finance the global investment budget. Developing issuance of green and social public sector covered bonds would most likely necessitate linking a larger share of local government lending to specific investments with green or social objectives.

### **CONCLUSION AND PERSPECTIVES**

Public sector covered bonds play a key role to provide long dated funding for local public sector investments. In Germany, France and Spain, financing provided by covered bond issuers represents well above 25% of local government debt in these countries.

Investments by local authorities have an important social and environmental impact. Areas including education, public transport, water management and waste management represent an important share of local government investments. Issuance of green and social public sector covered bonds remains limited at this moment. The main reason is that the use of proceeds for local government lending is generally not linked to specific social or environmental projects.

Looking ahead, the COVID-19 pandemic has created important additional needs for local public investments, in particular in the areas of public healthcare and education. In addition, local government investments play an important role in public investment plans to promote the transition to a sustainable economy. Public sector covered bonds are well positioned to play an important role in financing these investments.

## **1.2 THE FALLOUT OF THE COVID-19 CRISIS**

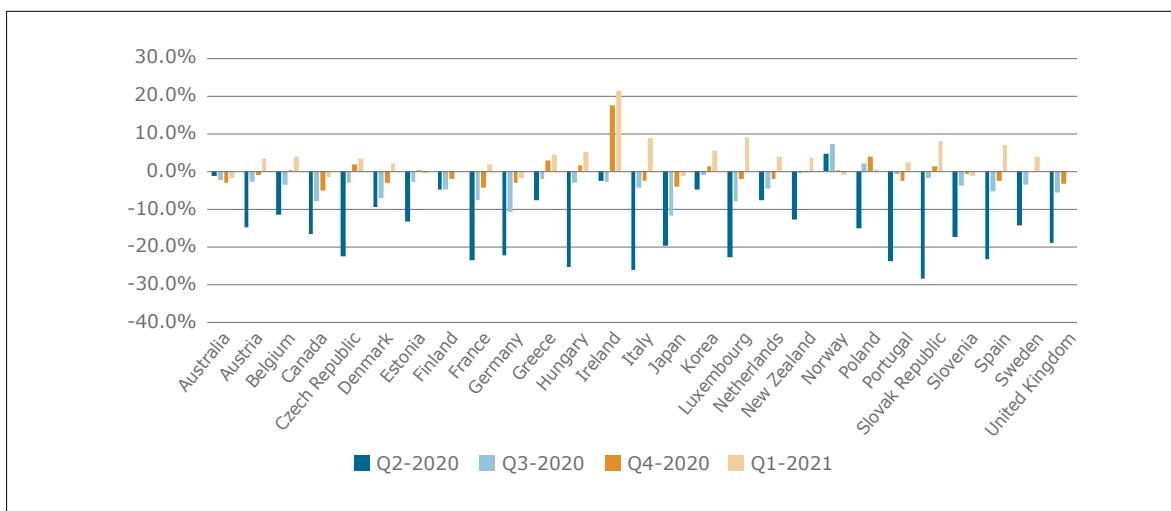
By Frederik Kunze, Nord/LB and Maureen Schuller, ING Bank N.V.

### **Introduction**

It is needless to say, that the severity of the COVID-19 crisis is a consequence of the dual nature of the economic shock it has caused. The simultaneous negative shock both to the demand and to the supply side made the substantial and long-lasting negative fallout for global economic activity unavoidable. The immediate response to the COVID-19 outbreak in the form of lockdowns was for the purpose of preventing the spread of the virus and avoiding an unbearable burden on national health care systems. As a result, economic activity at a global level slumped dramatically, as reflected, for example, by significant setbacks in industrial production, but also affecting service segments. The demand side (represented by private consumption, among other things) also virtually collapsed, while notable declines continued to be observed on the employment side. However, regional differences are also evident in terms of both the depth and timing of the economic downturn. Some countries were hit earlier and/or harder by the crisis than others.

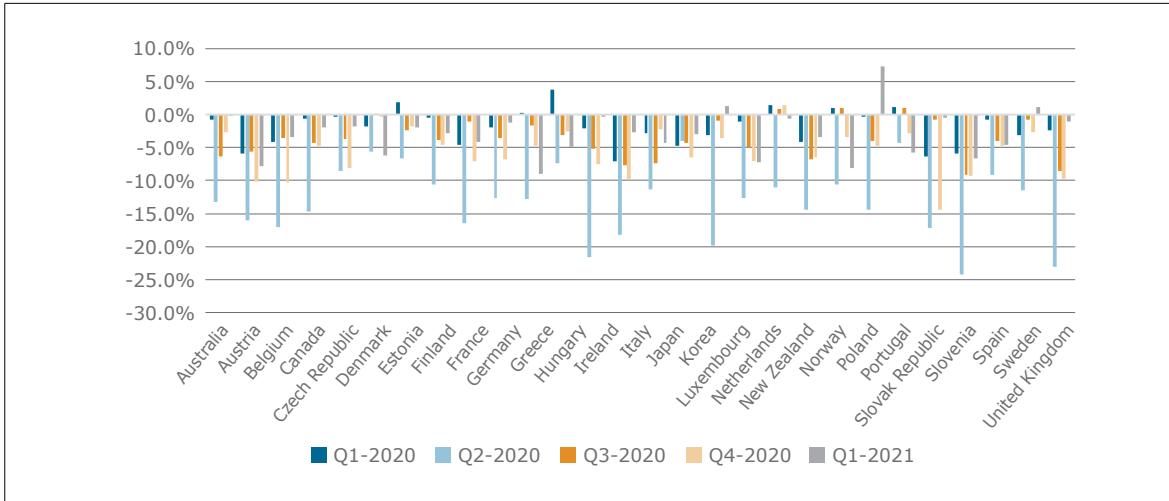
The dual nature of the COVID-19 crisis is also a novelty with respect to the dual recourse product covered bonds. After all, the complexity of the crisis and its impact on broad segments of economic activity can also add up to several points of attack on the risk mitigating mechanisms of covered bonds. In this respect, it also suggests itself that, to a certain extent, both the issuer and the cover assets are simultaneously exposed to negative shocks of unprecedented magnitude. However, the course of the crisis so far, and in particular the courageous interventions of legislators, regulators and monetary policymakers, have shown that the impact of the crisis on the economy and the stability of financial markets has been significantly mitigated and, hence, at least to some extend short-lived. In this context, however, the question inevitably arises as to how the impact of the crisis on covered bonds will materialize once the support measures are withdrawn. It is a legitimate question whether a general revaluation for different regions or asset classes is advisable. The aim of this article is to provide corresponding considerations here, although there is still a lack of real observations, especially against the backdrop of the ongoing support of the markets and economic fundamentals.

> FIGURE 1: INDUSTRIAL PRODUCTION



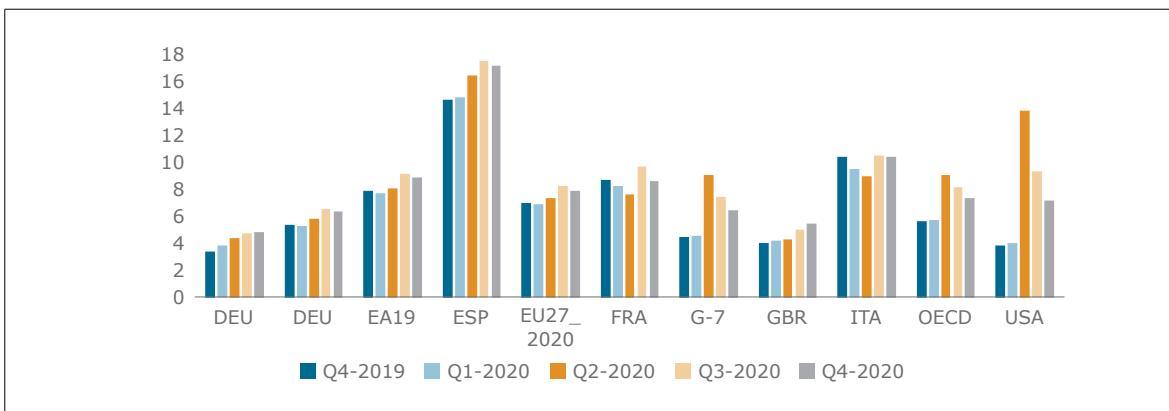
Source: NORD/LB, OECD

> FIGURE 2: GDP PRIVATE CONSUMPTION OF HOUSEHOLDS



Source: NORD/LB, OECD

> FIGURE 3: UNEMPLOYMENT



Source: NORD/LB, ILO

### Covered bond spread widening not long-lasting

The combination of reduced mobility and associated setbacks for economic activity with a fundamental increase in uncertainty also ensured a corresponding reaction on the financial markets. Significant widening of spreads was also observed for covered bonds. These spread movements had the same direction but not the same magnitude for all jurisdictions. The widening has been mostly sentiment or uncertainty driven and hit a broad range of asset classes and has, hence, been far from a covered bond phenomenon alone. Elevated spreads have indeed been rather short-lived, especially thanks to the massive use of monetary policy support measures. Furthermore, fiscal measures based on both national and supranational constructs, as well as regulatory support to mitigate procyclical effects (e.g. in the recognition of non-performing loans) provided stress relief. Actually, end of May 2020 spread levels were close to historical lows across all jurisdictions. A market-based analysis would hence not confirm the hypothesis of substantial immediate fallouts of the crisis. Nevertheless, a fundamental view is necessary, given the significant distortions of the price mechanism which can also be observed for covered bonds.

### **View on covered bonds – asymmetric impact of the crisis?**

The fundamental cause-and-effect relationships to be assessed for covered bonds in the context of the COVID-19 crisis relate to the influences on the issuer's cover assets and credit quality. While the corona crisis may affect the cover pool both via disruptions in cash flows (e.g. default of borrowers) and value of cover assets (e.g. sustained decline in real estate prices), the credit quality of the issuer could inter alia be affected by fundamental increases in NPLs or deteriorations in asset quality. The dual nature of the COVID-19 crisis would also be evident here in that the burdens on cover pools and credit could also occur simultaneously and affect the entire breadth of issuers and pools.

### **View on covered bond issuers – credit risk remains manageable**

In order to assess credit quality in the banking sectors of covered bond jurisdictions, it is necessary to evaluate the risk factors of rising NPL ratios, dwindling capital holdings and financial losses, which can occur in particular in the context of rising or high unemployment, an uneven and sluggish economic recovery and in the wake of rising uncertainty in the financial markets. The support measures (e.g. furlough schemes or tax and insolvency law suspensions) provide relief with regard to possible defaults and at the same time have a positive effect on the credit, which in turn creates scope for lending. This also enables the corporate sector to bridge liquidity bottlenecks, which inhibits an intensifying negative feedback effect on economic activity, employment and, finally, banks' solvability. At the same time, the risk of negative rating migrations is reduced, while the suspension of the insolvency notification requirement in some countries and regions prevents loan defaults for the time being. Having said that, the support measures must be equated, with the question of when and in what order the support measures will be withdrawn or scaled back being a key factor in future scenario analysis.

When scaling back support, an increase in default probabilities on the part of borrowers seems inevitable. As regards liquidity, for example, maturing TLTRO III-tenders might have a negative impact on the banks' coverage ratios. The extent of this counter reaction is in the hands of regulatory, legislative, and monetary policymakers. In the context of the expected increase in credit risk, specific extreme cases could also be accompanied by a necessary liquidation of real estate. Against this backdrop, the possible negative consequences of a simultaneous fall in real estate prices, which would have to be part of an extreme scenario, should not be underestimated. Nevertheless, the current trends observed on the real estate markets certainly indicate that markets can be assumed to be at least stable in a base or mild to medium severe scenario – at least as long as the general conditions for corresponding financing remain favorable. In particular, a sustained and rapid rise in general interest rates could have a negative impact on the real estate markets. In this respect, it is also important that the steps towards "normality" are harmonized as far as possible by all decision-makers.

### **By far no worst-case scenario**

A worst-case scenario has obviously not materialized so far and becomes less likely. As a result, the banking sector is still comparatively robust and has therefore come through this crisis better than in earlier crises. This applies not only but also in particular to Europe. Based on EBA data (see EBA Risk Dashboard Q1/2021<sup>1</sup>), we observe high capital ratios for EBA institutions for the first quarter of 2021, which is mainly a consequence of increased capital. In contrast, risk-weighted assets have increased only discreetly. NPL ratios also continue to decline in general. Furthermore, EBA depicts a downward trend for loans under EBA eligible moratoria (EUR 590bn in Q3/2020 vs. EUR 318bn in Q4/2020 and EUR 203bn in Q1/2021).

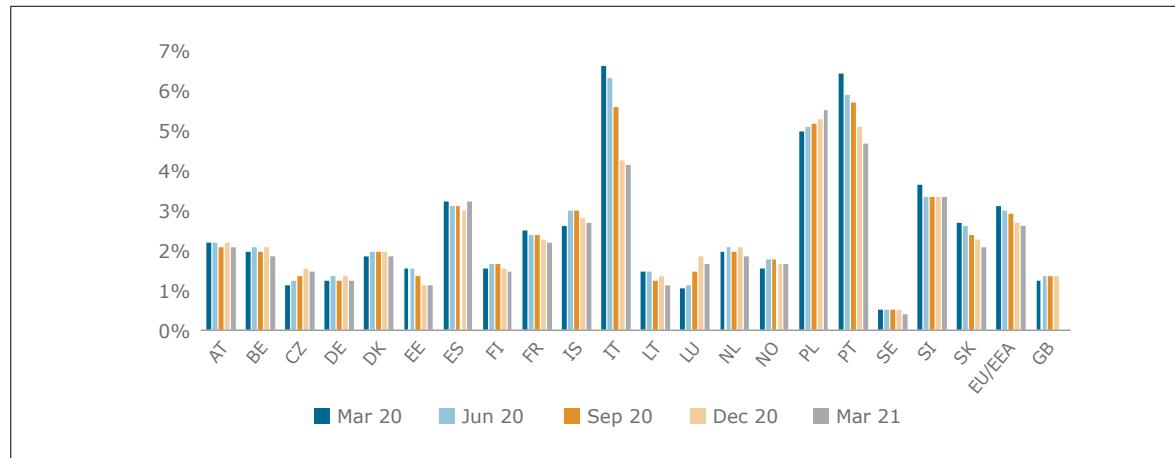
The ECB's Bank Lending Survey<sup>2</sup> also provides important insights into the state of the banking sector and the general conditions in relation to its task of providing the real economy with financing and in general confirms the view of a "not as severe as expected" fallout for issuers so far. The fact that the conditions for lending have only

1 <https://www.eba.europa.eu/risk-analysis-and-data/risk-dashboard>

2 [https://www.ecb.europa.eu/stats/ecb\\_surveys/bank\\_lending\\_survey/html/index.en.html](https://www.ecb.europa.eu/stats/ecb_surveys/bank_lending_survey/html/index.en.html)

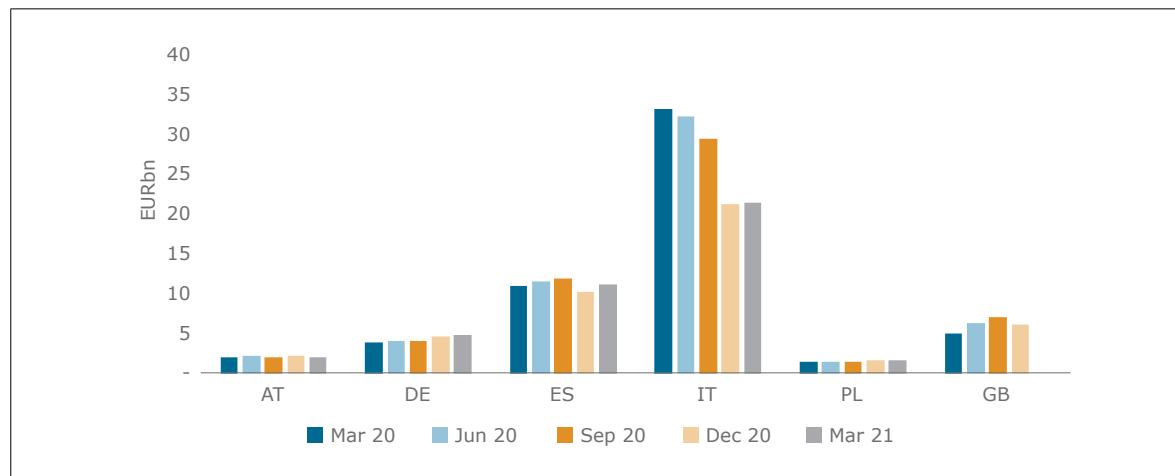
deteriorated slightly recently is once again attributable to the support measures. The general conditions are likely to improve again in the course of the expected economic recovery in Europe and also in the overseas jurisdictions, which should also have a noticeable impact on the real estate segment.

> FIGURE 4: EBA RISK DASHBOARD NPL IN %



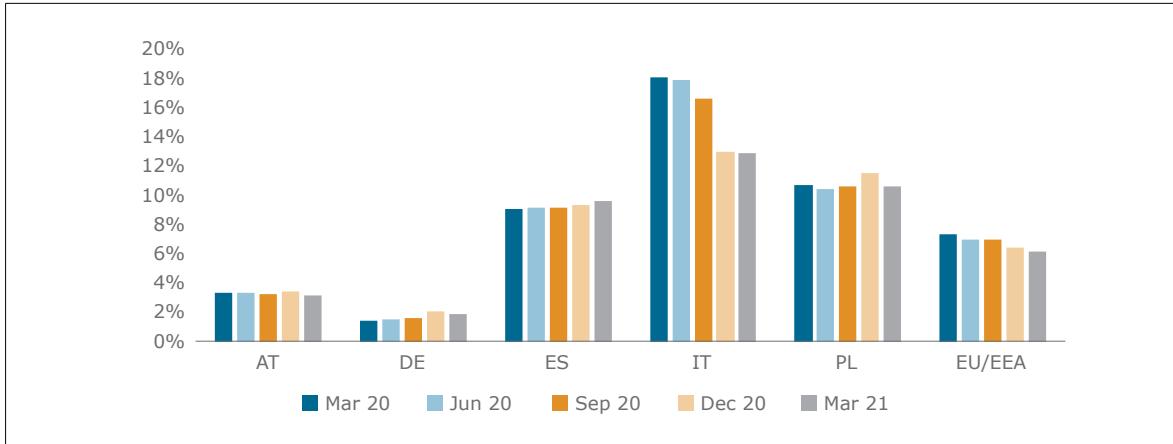
Source: NORD/LB, EBA

> FIGURE 5: EBA RISK DASHBOARD CRE NPL (in EURbn)



Source: NORD/LB, EBA

> FIGURE 6: EBA RISK DASHBOARD CRE NPL IN %



Source: NORD/LB, EBA

### **View on cover assets**

In case of the default of an issuer, the value of the assets and the ability of the cover pool to meet the payment obligations from the covered bonds come into play. Having said that, the crisis implications for cover pools are far from limited to the extreme case of issuer default. Globally cover pools mainly comprise real estate loans, which in turn are mainly attributable to residential financing. Hence, the focus of this scenario analysis is initially on residential mortgages. In a worst-case scenario, a dramatic course of the crisis – and without support measures – could ultimately have resulted in a sharp rise in defaults or disruptions in cash flows. Also in the absence of a default, these developments could also have resulted in significant reallocations of cover assets, for example because NPLs are not permitted in the cover pools and/or are not eligible for inclusion in the cover calculation. In addition, a dramatic collapse in real estate prices would have affected the volume of eligible cover assets, because the cover pool-eligible part of mortgage loans might have decreased significantly under these circumstances. In this severe scenario, some issuers could have reached the limits with respect to overcollateralization requirements and/or available cover assets. One immediate consequence could have been rating downgrades and the associated increased credit risk, although specific defaults on covered bonds would still have been clearly attributable to tail risks even in this negative scenario. Not least as a result of the support measures, this scenario with possible downgrades or sustained deterioration in the credit quality of covered bonds has by no means materialized.

### **Real estate prices not under pressure as expected, with CRE being one exception looking forward?**

Contrary to the expectations of some market observers, real estate prices have not declined on a sustained basis. Demand for housing is growing faster than supply in many covered bond jurisdictions. Thanks also to the interest rate environment, there has been a comparatively rapid return to an upward price trend. This applies both to the European real estate markets and to overseas markets.

However, looking at the Commercial Real Estate sector (CRE), one of the things that has continued over the course of the pandemic is the declining trend in yields, in fact property prices are increasing due to the lowering of yields. In this respect, no immediate COVID-19 fallout can be seen here yet. Nevertheless, it are the structural changes on the demand side as a consequence of the pandemic that need to be taken into account with regard to those cover pools that have a significant share of CRE assets. Cover pools in Germany and Austria account for the largest share of CRE assets, whereas at the global level, residential cover assets dominate. Considerations with a view to a prospectively lower numerical demand for office workplaces or retail space are relevant, especially for Pfandbriefe. In this context, however, the growing importance of logistics properties must also be taken into

account. While the hotel industry will certainly have to recover from the sharp cuts in the wake of the pandemic, in perspective it can certainly be assumed that this CRE sub-segment should gradually recover.

### **German CRE in focus**

Using §28 PfandBG data for the 35 vdp institutions German cover pools have a weighted share of 26% (EUR 120bn as Q1/2021) commercial cover assets. As shown, among other things, by figures on the vdp's real estate price index, a decline in prescriptions for CRE materialized in the wake of the crisis. Prices for office properties have declined by 1.2% since the first quarter of 2020. Retail real estate had a minus of 2.1% in the same period. Even if the Corona crisis should have played a notable role, the fallout of the crisis should not be overestimated, as yields have already been trending lower. In terms of the impact on the credit quality of Pfandbriefe there is by no means any significant movement to speak of, which is to be explained by the requirements on cover assets or cover calculations. In summary, no fallout can be identified in the most important CRE covered bond sub-market.

### **Rating stability**

The rating landscape for covered bonds, but also for issuers and sovereigns, is characterized by a high degree of stability. The responsible rating committees in the covered bond universe have set some outlooks to negative and have made isolated downgrades. However, the impact of the crisis on credit ratings has so far been much less pronounced than in the global financial crisis or the European sovereign debt crisis. Downgrades of global covered bond ratings have been much less pronounced than in the course of the financial crisis / EMU sovereign debt crisis – inter alia thanks to overcollateralization (buffers) and unused notches of uplifts.

### **A new risk differentiation?**

Possible lasting burdens on covered bonds may have their origin within macroeconomic developments. As a matter of fact, disruptions to the economic expansion process become less likely with ongoing successes in vaccination campaigns. More importantly, the question of how the support measures will be withdrawn plays a particularly crucial role.

For a future-oriented scenario analysis, it seems useful to concentrate on those cover assets that might be disproportionately affected by extreme but still realistic market movements or stress factors due to their regional affiliation or asset class (i.e. residential or commercial real estate or public sector assets). As regards the need for a new regional risk differentiation as a consequence of COVID-19 the globally observable turnaround to stronger economic growth speaks against this hypothesis. Hence, there should be no lasting COVID-19 related change to risk perception in different covered bond markets. When it comes to sector-specific risk differentiation, however, it is more legitimate to assume that the CRE sector in particular will continue to face sustained pressures in the future, as the hotel and restaurant industry in particular will be impacted by the lockdowns, and shopping centers and office buildings will be impacted by changing shopping and work preferences. There is a risk that a general and sustained rise in interest rates will also have a negative impact on covered bonds and their cover assets. And precisely this connection is more pronounced for the CRE segment, which is why rating agencies such as Moody's also apply greater valuation discounts to CRE in the event of corresponding developments. In this context, additional burdens may result from falling or non-existent rental income.

### **What has the crisis done to the primary market?**

If there is one lasting fallout from the COVID-19 crisis and the corresponding responses from the various entities, it is the adjusted funding behavior of issuers. Covered bonds continue to be an important part of commercial banks' funding strategy. However, against the backdrop of the ECB purchase programs, the TLTRO III tenders, the low level of interest rates and the high level of customer deposits, publicly placed covered bonds tend to have a niche existence. Nevertheless, this situation may shift again in favor of publicly placed issues in the future. The prerequisite for this is not only a reduction in the high level of customer deposits but also a recovery in lending,

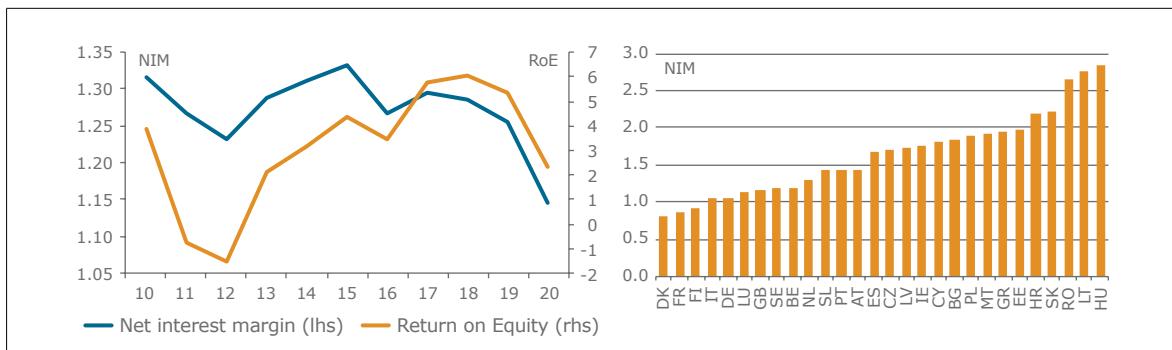
which in turn is inevitably linked to a sustained economic recovery. Refinancing via the primary market for covered bonds should then benefit in particular from sustained momentum on the real estate markets.

#### **Banking sector consolidation as response to the profitability consequences of the pandemic**

Mergers and acquisitions are far from a new theme to the covered bond market. Particularly the aftermath of the credit crisis in 2008 has seen a wave of M&A activity involving a large number of covered bond issuers. While the banking sector consolidation has been on a slower path in recent years, the COVID-19 crisis is broadly anticipated to speed up the integration process again. Predominantly within the overbanked European markets, where low interest rates and flat yield curves exert further pressure on the profitability of banks and their thin net interest margins, banks may more actively seek consolidation opportunities to realise economies of scale advantages.

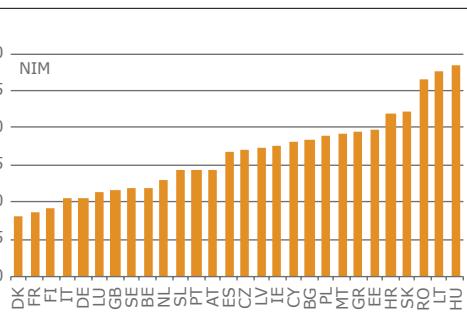
The clarity provided by the ECB earlier this year on its supervisory approach to banking sector consolidation may facilitate this process. After all, the guidance offered may help banks in evaluating the feasibility of a business combination where it comes to the setting of the post-merger Pillar 2 requirements (P2R) and Pillar 2 guidance (P2G), the prudential treatment of bad will and the transitional provisions for the temporary use of existing internal models.

> FIGURE 7: LOW INTEREST RATES PRESSURE EU BANKS' PROFITABILITY



Source: ECB, ING

> FIGURE 8: NIMs TEND TO BE LOWER IN CORE EUROPEAN MARKETS



#### **Less concentrated banking sectors are prone to see more domestic M&A activity**

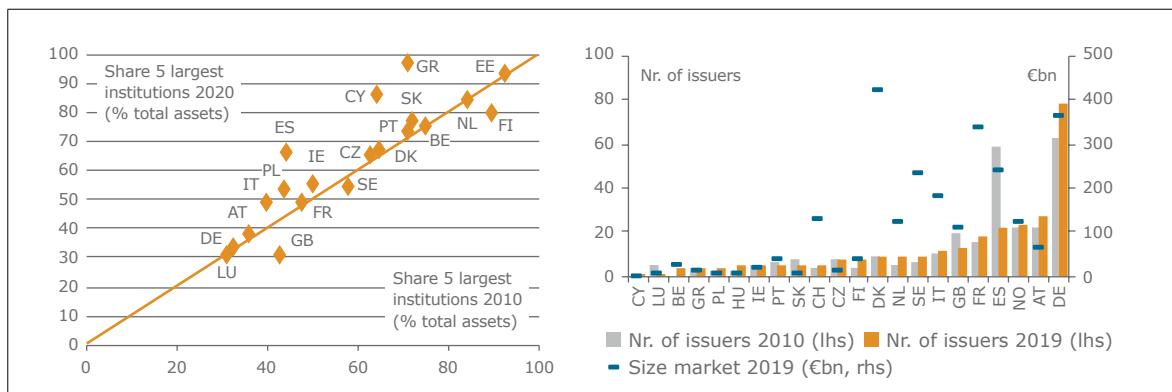
The Spanish banking sector has without any doubt seen the strongest consolidation in Europe over the past decade. The market share of the five largest Spanish institutions has expanded from 44% in 2010 to 66% in 2020 and is now in line with the European average. In fact, when taking the market dominance of the top five banks as a reference, Spain nowadays has the most concentrated banking sector of the five largest European economies (including the UK). Germany still ranks among the least integrated markets, together with the UK and Austria. Instead, the Dutch and Finnish banking sectors remain among the most concentrated banking sectors within the EU. Particularly the less concentrated banking sectors may see a pickup in domestic M&A activity in the aftermath of the COVID-19 pandemic as a means to achieve the ever so important cost synergies.

As many issuers made their first-time debut to the covered bond market in the past ten years, the European consolidation process has so far not led to a significant decline in the number of European covered bond issuers. According to EMF-ECBC statistics, the European market still counted 284 covered bond issuers in 2019, modestly down from 288 in 2010. The lower figure comes almost fully for the account of the Spanish market where the number of covered bond issuers shrank from 59 to 23 in this period. The banking sector consolidation not only saw the Spanish covered bond market shrink by more than €120bn since 2010, Spanish bank mergers have also marginalised the multi-issuer Cédulas segment. These covered bonds were frequently used by smaller Spanish

credit institutions before the credit crisis to be able to issue benchmark size covered bonds, while securing them by the smaller size single-issuer Cédulas of the different participating banks to the transaction.

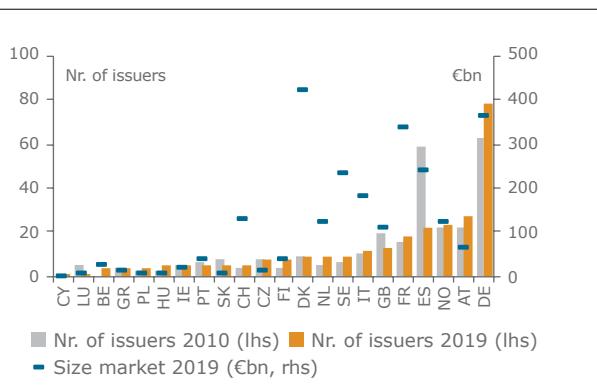
Germany has also seen its fair amount of mergers and acquisitions throughout the past decade. Nonetheless the number of German banks issuing covered bonds has risen since 2010 from 63 to 78, despite the fact that the German covered bond market shrank by more than €275bn in this period. Germany is in this regard an isolated example. We believe that a fresh round of mergers and acquisitions in Europe will coincide with a further reduction in the number of covered bond issuers.

> FIGURE 9: MOST BANKING SECTORS HAVE BECOME MORE CONCENTRATED IN THE PAST DECADE, BUT DIFFERENCES REMAIN SUBSTANTIAL\*



Source: ECB, ING \*) Statistics for the UK (GB) date from end 2019

> FIGURE 10: BANKING SECTOR CONSOLIDATION HAS REDUCED THE NUMBER OF COVERED BOND ISSUERS IN SPAIN IN PARTICULAR



Source: EMF-ECBC, ING

### The impact of mergers and acquisitions on covered bonds

Mergers and acquisitions do not always have a similar outcome for the covered bond programmes involved. There are different ways of consolidating banks, with different impacts for covered bonds:

- > The acquiring bank takes a controlling interest in the acquired bank, but allows it to continue to operate independently as a subsidiary entity. In this case there is no merger of the assets and liabilities of the banks. If both the acquiring bank and the acquired bank have covered bond programmes in place, these will continue to be managed by the original issuing entities.
- > The two banks involved in the acquisition are merged into one single entity. This can take shape by means of the acquiring bank absorbing all the assets and liabilities of the acquiree, with the acquired bank subsequently ceasing to exist, or by means of both bank entities forming together one consolidated rebranded new entity. Both can have different implications for the covered bond programmes of the merging banks:
  - > The two banks' covered bond programmes can be integrated into one single covered bond programme, managed by the acquiring bank or consolidated bank.
  - > The assets and liabilities of the existing covered bond programmes are not merged but kept as separate programmes managed by the acquiring bank or consolidated bank. In this case one of the programmes (often the acquiring bank's programme or the larger programme of the rebranded entity) is generally maintained for the (public) issuance of covered bonds, while the other programme is wound down.

In countries such as Spain it has always been the common approach to integrate the covered bond programmes of the merging banks into one single programme. Legal considerations do play a role here, as the current Spanish covered bond law offers covered bondholders a preferential claim to the full mortgage book of the issuing entity,

rather than to a pool of segregated assets alone. This would virtually render it impossible to run two mortgage covered bond programmes from the same issuing entity. Also in Germany banking sector consolidation has often coincided with a merger of the assets and liabilities of the bank entities and the covered bond programmes involved. Germany has also seen a number of acquisition examples where the acquired bank and its covered bond programme(s) remained operationally independent from the acquiring parent entity. In some cases it was decided years later to fully integrate the acquired subsidiary entity into the parent entity and to subsequently combine both entities' covered bond programmes. In Italy instead, history learns that merged bank entities often continue to operate the covered bond programmes of the merged entities as separate programmes. A reason may be that Italian covered bond programmes often include different structural features on a programme level, which may make it more complicated to integrate them post-merger compared to programmes that mostly operate along the lines of the uniform requirements stipulated by law. This does not mean however that we may not see some programmes that are still run separately to be merged into one programme at a later stage.

#### **The pros and cons of the different integration approaches for covered bonds**

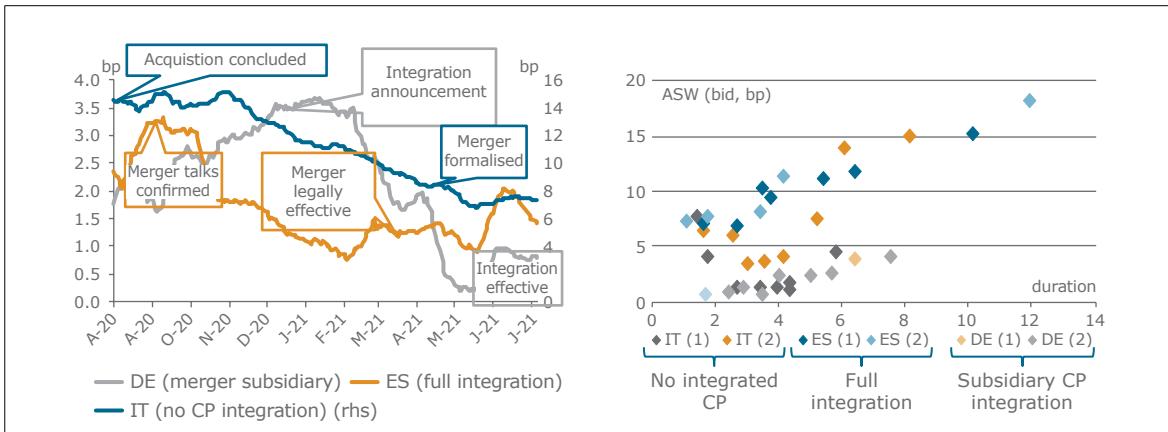
Mergers and acquisitions often involve the acquisition of a weaker bank entity by a stronger counterpart. As such the rating and performance implications of such mergers and acquisitions tend to be most favourable for the bank entity that is acquired. The impact on the acquiring bank is generally limited as this bank is usually deemed to be fundamentally strong enough to absorb the potential negative implications on, for instance, the quality of its assets.

Besides, once banks merge, the combined entity becomes larger and therefore is likely to gain in systemic importance. This improves the going concern prospects of the larger combined bank. The larger scale and more frequent bond issuance prospects of the merged entity may also make it more interesting for investors to perform the credit work on the institution.

In the remainder of this section we have a look at the relative performance implications for covered bonds for three merger cases that took place in the past year in Germany, Italy and Spain, as plotted in figure 11 and 12. They represent three different situations: a) the integration of a subsidiary entity and its covered bond programmes into the parent entity (Germany), b) the merger of a bank into its parent entity, where the covered bond programmes of the acquiring and acquired bank are still run separately (Italy), and c) the merger of two banks involving the integration of the mortgage covered bond programmes of the entities involved (Spain).

The first chart shows that the confirmation of merger intentions generally already triggers a convergence of covered bond spread levels between the entities involved ahead of the completion of such a merger. The impact on performance is obviously strongest where the differences in bank fundamentals and/or spread levels have been the widest. Besides, the second chart also nicely illustrates that a full convergence of covered bond spread levels may not take place in the event that covered bond programmes continue to be run as two different programmes.

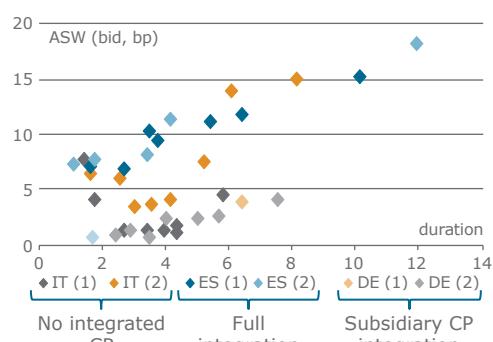
> FIGURE 11: MERGER ANNOUNCEMENTS TRIGGER SPREAD CONVERGENCE BETWEEN THE PARTIES INVOLVED AHEAD OF COMPLETION\*



Source: Markit iBoxx, ING

\* ) Spread difference in 6/7yr area, CP=cover pool

> FIGURE 12: A FULL SPREAD CONVERGENCE ACROSS THE CURVE SOLELY OCCURS FOR INTEGRATED COVER POOLS (CP)



Source: Markit iBoxx (30-June-2021), ING

This has the following reasons:

- > Despite the support of the same parent entity, covered bond programmes may have structural differences contributing to differences in spread levels. These may be related to the maturity structure (hard or soft bullet, or conditional pass-through), overcollateralization commitments, collateral eligibility criteria, or other built in protection mechanisms such as reserve fund requirements, counterparty replacement triggers or set-off risk safeguards.
- > The quality of the cover pools securing the covered bonds issued under different programmes can differ. Think for instance of differences in the composition of the cover pools in terms of commercial versus residential real estate assets, higher versus lower LTV ratios, the share of interest only loans or non-performing loans, or geographical distribution. Pools that merge, on the other hand, will become fully identical in terms of asset quality.
- > Maintaining a programme in run off mode may weigh on the covered bonds issued under such programme, as the programme may deemed to be less actively managed. There is a risk this could come at the expense of the efforts made by issuers to ensure the best quality of the assets securing the bonds beyond the boundaries of the legal framework, or their commitment to keep overcollateralization levels sufficiently high to realise the best achievable covered bond rating levels. This may bias investor demand towards those programmes that are still actively managed and used for fresh public issuance.

#### **More than a year of Corona: conclusion and outlook for covered bonds**

The dual recourse product covered bonds has not been put under severe pressure in the course of the crisis. Nevertheless, the covered bond market has changed significantly. It should be noted that covered bonds have once again proven themselves to be a crisis-proof asset class. In fact, however, covered bonds have also gained in stability during the crisis as a result of the support measures. After all, the measures largely shielded the issuers from the dramatic consequences of the crisis and supported the cover pools with regard to payment flows and the value of the cover assets – even if the latter would have been necessary only indirectly at best. Looking ahead, the risk of renewed sustained disruptions to the covered bond market is rather manageable. Nevertheless, the remaining course of the pandemic is just as relevant for the covered bond markets as the associated

withdrawal of the extensive support measures. In the course of this, the onset of significant spread differentiation is to be expected in particular, with the ECB's course being the key factor here. If the Eurosystem withdraws from the covered bond market as a buyer and the squeeze on the supply available on the market comes to an end, the risks in the various covered bond markets should also be priced more adequately again. In this context, a COVID-19-induced new risk differentiation would be more likely with regard to asset classes (namely the CRE sector) than for regional or geographic differences.

The COVID-19 pandemic may also contribute to a further well needed consolidation process within the European banking landscape, reducing the number of covered bond issuers and programmes outstanding. Particularly the covered bonds of smaller size and lower rated bank entities stand to benefit from a combination with a stronger counterpart and an increase in scale. In this process it is most beneficial if also the covered bond programmes of the acquiring bank and acquired bank are integrated into one active programme.

## **1.3 THE IMPACT ON COVERED BONDS OF CENTRAL BANK RESPONSES TO THE COVID-19 PANDEMIC**

By Maureen Schuller, ING Bank N.V., Frank Will, HSBC, Franz Rudolf, UNICREDIT

### **INTRODUCTION**

The COVID-19 pandemic has prompted many central banks across the globe to take action to fend off the impact of the pandemic on economic growth and the financial system. The ECB makes one example of a central bank that has gone to new extremes in its efforts to provide banks with abundant liquidity at very favourable terms via the TLTRO-III operations. At the same time, the central bank has done its utmost to soften the impact of the pandemic on sovereign yields by establishing a pandemic emergency purchase programme (PEPP) alongside the already existing asset purchase programme (APP). However, not all central banks have responded in the same way to the pandemic. In the UK, Australia and Denmark, the central banks provided banks with access to cheap funding facilities while the Norwegian and Canadian central banks made temporary adjustments to their collateral eligibility criteria, including for covered bonds, to give banks the opportunity to post sufficient collateral to attract central bank funding. In Sweden, the Riksbank opted for an asset purchase programme as major support measure. In this ECBC Factbook article, we discuss the various actions taken by different central banks across the globe, as well as their implications for covered bond markets.

> FIGURE 1: SUMMARY OVERVIEW OF CENTRAL BANK MEASURES

Region	Liquidity	Collateral eligibility	Asset purchases
Eurozone	✓	✓	✓
Sweden			✓
Norway		✓	
Denmark	✓		
United Kingdom	✓		
Australia	✓		
Canada		✓	

Source: Central bank information

### **EUROZONE**

#### **The TLTRO operations: boosting bank liquidity**

The TLTRO-III operations have been one of the most important measures used by the European Central Bank (ECB) to fight the impact of the COVID-19 pandemic. Already well ahead of the COVID-19 crisis, on 7 March 2019, the ECB announced a third series of TLTROs to preserve favourable bank lending conditions in the Eurozone. The operations were to be conducted through seven quarterly tranches from September 2019 to March 2021. The ECB subsequently eased the conditions for the TLTRO-III operations on several occasions to make sure banks would continue to grant sufficient loans to companies and households, which became even more crucial after the outbreak of the COVID-19 pandemic.

> FIGURE 2: THE EVOLUTION OF THE TLTRO-III TERMS\*

Decision date	12-Sep-'19	12-Mar-'20	30-Apr-'20	10-Dec-'20	
Number of tranches	Seven (III.1-7)	Seven (III.1-7)	Seven (III.1-7)	Seven (III.1-7)	Three (III.8-10)
Dates	Sep '19 - Mar '21	Sep '19 - Mar '21	Sep '19 - Mar '21	Sep '19 - Mar '21	Jun '21 – Dec '21
Frequency	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly
Term to maturity	3yr	3yr	3yr	3yr	3yr
Voluntary repayment option	After 2yr Quarterly	After 1yr per Sep '21 Quarterly	After 1yr per Sep '21 Quarterly	After 1yr per Sep '21 Quarterly	Per Jun '22 Quarterly
Borrowing allowance	30%	50%	50%	55%	55%
Maximum per tranche	10%	-	-	-	-
Eligible loans cut-off date	28 Feb '19	28 Feb '19	28 Feb '19	28 Feb '19	28 Feb '19
Interest rate	Average for term		Rest of life	Rest of life	Rest of life
Max	MRO rate		MRO rate	MRO rate	MRO rate
Min	DFR		DFR	DFR	DFR
Lending target for min rate	2.50%		1.15%	1.15%	
Benchmark reference	12m to 31 Mar '19		12m to 31 Mar '19	12m to 31 Mar '19	
Lending benchmark reference period	1 Apr '19 - 31 Mar '21		1 Apr '19 - 31 Mar '21	1 Apr '19 - 31 Mar '21	
Special interest rate period		23 Jun '20 - 24 Jun '21 MRO rate -25bp DFR -25bp 0%	23 Jun '20 - 24 Jun '21 MRO rate -50bp DFR -50bp 0%	23 Jun '20 - 24 Jun '21 MRO rate -50bp DFR -50bp 0%	
Max					
Min					
Lending target for min rate		1 Apr '20 - 31 Mar '21	1 Mar '20 - 31 Mar '21	1 Mar '20 - 31 Mar '21	24 Jun '20 - 23 Jun '21
Special reference period					
Additional spec. interest rate period					
Max					MRO rate -50bp
Min					DFR -50bp
Lending target for min rate				0%	0%
Additional special reference period				1 Oct '20 - 31 Dec '21	1 Oct '20 - 31 Dec '21

Source: ECB, ING \*) Summary based on the assumption of a stable MRO rate of 0% and DFR of -50bp.

On 12 March 2020 the central bank decided to increase the maximum amount banks could draw under the TLTRO operations from 30% to 50% of their eligible loan stock on 28 February 2019, and removed the 10% bid limit per tranche. In addition, banks were given an early repayment option after one year from settlement, starting September 2021. The ECB also introduced a special interest period from 24 June 2020 until 23 June 2021 for all the TLTRO-III operations outstanding for banks able to keep their credit provisioning at least stable during a special reference period between 1 April 2020 and 31 March 2021.

On 30 April 2020 the ECB made the interest rate terms for the special interest rate period as favourable as 50bp below the average MRO rate, or even 50bp below the average DFR (or in any case not higher than -1%) for

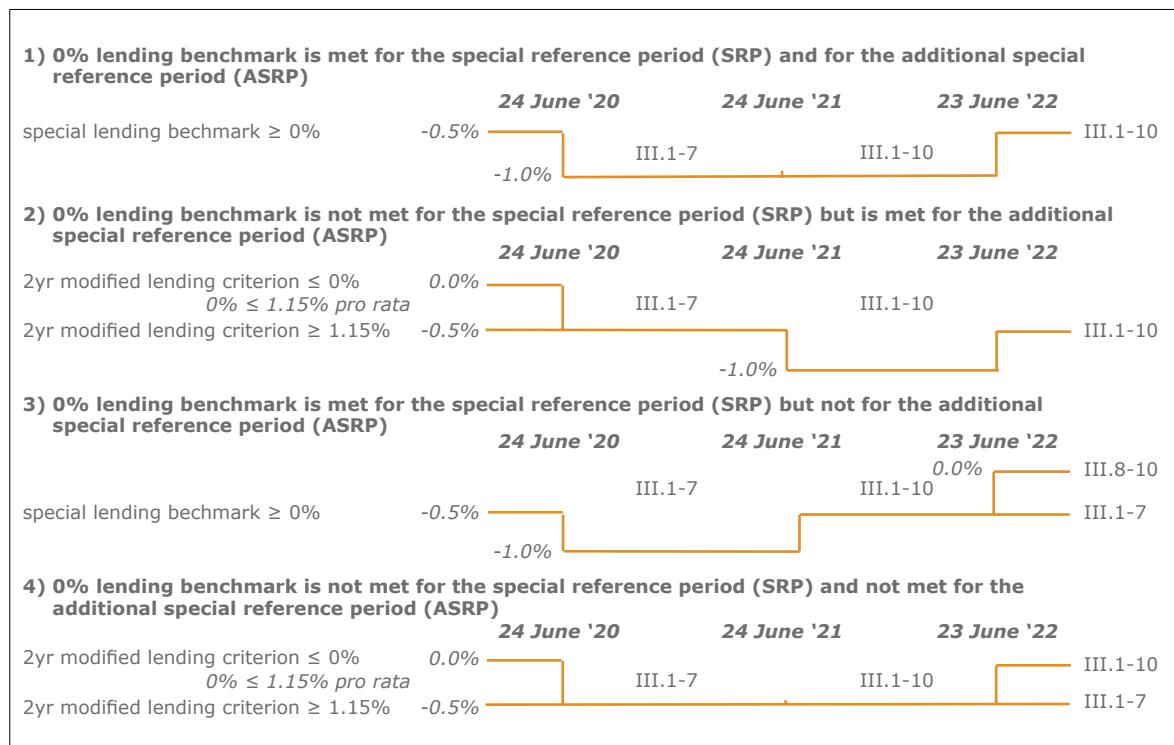
counterparties meeting the applicable 0% lending performance threshold. To capture the lending growth in the first month of the COVID-19 crisis in March, the cut-off date for the lending threshold was also brought forward by one month to 1 March 2020, while the end of the special reference period was kept unchanged at 31 March 2021.

For banks not reaching the 0% lending threshold during the special reference period, the interest rate would be more or less based upon the original TLTRO-III terms. The lending development would then be evaluated over a second reference period between 1 April 2019 and 31 March 2021 but against a lending threshold of 1.15% (down from the original 2.5%). During the special interest rate period the interest rate for these banks would not be higher than 50bp below the average MRO rate. This applied to all the TLTRO-III operations relevant for that period.

On 10 December 2020, the ECB once again amended the conditions of the TLTRO-III operations and decided to extend the period over which the favourable interest terms would apply by an additional special interest rate period running from 24 June 2021 until 23 June 2022. These favourable terms would only be made available to banks realising a new lending performance target of 0% during the additional special reference period from 1 October 2020 until 31 December 2021.

Besides, the ECB added three additional operations to the TLTRO-III to be conducted between June and December 2021, while raising the borrowing allowance from 50% to 55% versus the stock of eligible loans. Importantly, the new tranches were all given a first repayment opportunity on 29 June 2022, right after the expiration of the additional special interest rate period.

> FIGURE 3: LENDING BENCHMARKS AND THE TLTRO-III RATES AT AN UNCHANGED DFR OF -0.5% AND MRO OF 0%



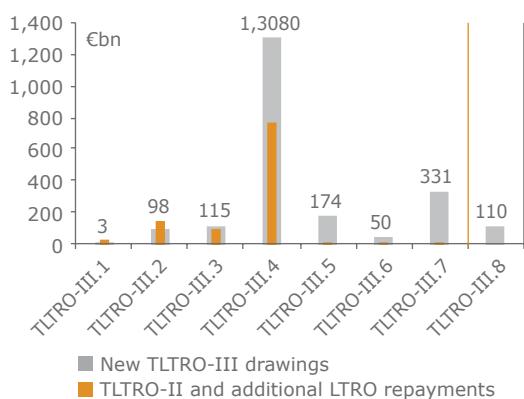
Source: ECB, ING

### The PELTRO backstop

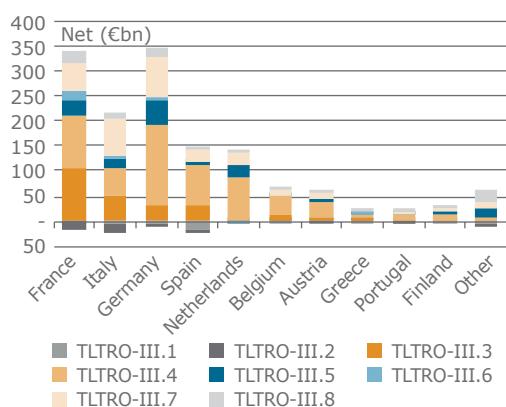
From 19 May 2020 until 1 December 2020, the ECB also conducted seven series of non-targeted pandemic emergency longer-term refinancing operations (PELTROS) virtually on a monthly basis. The PELTROS grant mortgage banks, that do not qualify for the TLTRO lending benchmark, access to longer term liquidity at favourable conditions. The PELTRO tranches mature between July and September 2021 and have decreasing tenors from 16 to 8 months. The interest rate is 25bp below the average MRO rate over the life of each PELTRO. On 10 December 2020 the ECB announced to offer four additional PELTRO tranches with a tenor of one year, to be allotted on a quarterly basis as of March 2021 at a similar interest rate of 25bp below the average MRO rate. Up to June 2021 Eurozone banks had attracted EUR 27.5 bn under the PELTROS.

Thus far, Eurozone banks have massively seized the opportunity offered by the TLTRO-III operations to realise an interest rate as low as -1% on their drawings. By June 2021, Eurozone banks had attracted EUR 2,190 bn in total under the TLTRO-III operations. Particularly German and French banks have made a substantial use of the operations.

> FIGURE 4: €2.2TRN DRAWINGS UNDER THE TLTRO-III.1-8 TRANCES



> FIGURE 5: (T)LTRO DRAWINGS PER COUNTRY



Source: ECB, ING

Aggregate country lending statistics indicate that most banks likely met the lending requirements for the first special interest rate period and also appear to be well positioned to meet the lending thresholds for the additional special reference period. This means banks will probably hold on to their TLTRO drawings at least until the end of the additional special interest rate period. The covered bond market, as such, will continue to feel the impact hereof, both in primary and secondary markets, as we will discuss later in this chapter.

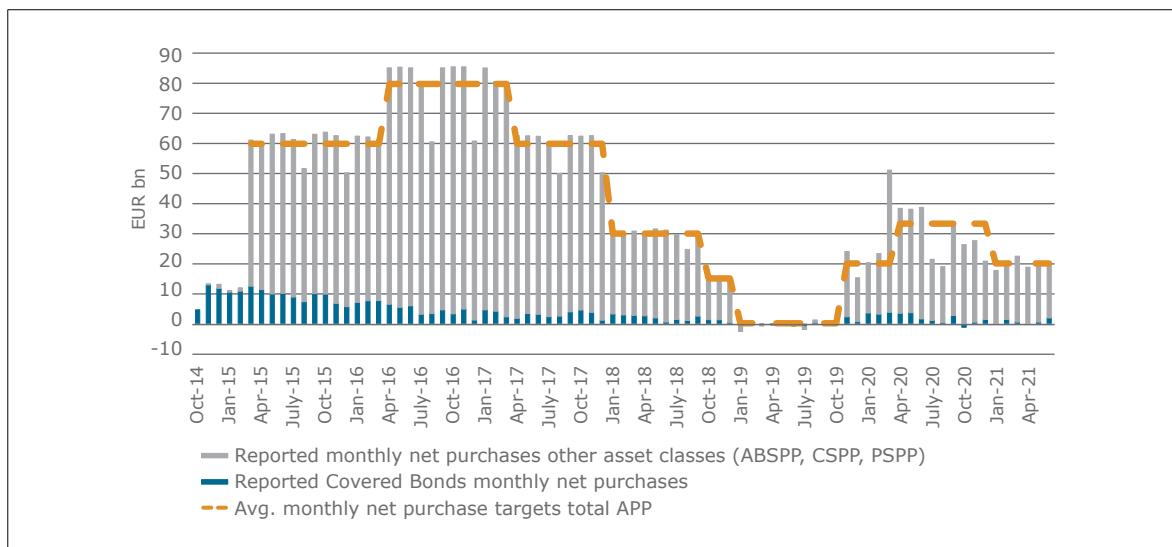
### Covered Bond Purchase Programme 3 (CBPP3)

Initiated in September 2014 by the ECB and later embedded in a broader asset purchase programme, net purchases of the covered bond purchase programme (CBPP) are still ongoing. The programme has been a major driver for the covered bond market since its implementation. As of the time of writing, the ECB continued buying in secondary markets, as well as in the primary market. With Covered bond holdings of almost EUR 292 bn at the end of June 2021, the ECB is the largest investor in covered bonds. Covered bond purchase programmes have been part of the European covered bond market for many years. The first purchase programme (CBPP1)

was launched in 2009, followed by CBPP2 in 2011 and CBPP3 in 2014. While the first two programmes ran for about one year each, the third programme is still in place and has been adjusted several times: net-purchase phase from October 2014 to December 2018, reinvestment phase from January to October 2019, new net-purchase phase since November 2019 and a temporary additional increase from March 2020 until year-end 2020. Reacting to the COVID-19 crisis, an additional asset purchase programme, the Pandemic Emergency Purchase Programme (PEPP), was announced with covered bond holdings of EUR 5.4 bn as of end-July 2021, which equals 0.4% of the total programme size.

The latest phase of the CBPP3 started in September 2019, when the ECB announced, as part of a package of stimulus measures, to restart net purchases under the Governing Council's asset purchase programme (APP) at a monthly pace of EUR 20 bn as from 1 November 2019. The Governing Council expects purchases to run for as long as necessary to reinforce the accommodative impact of its policy rates, and to end shortly before it starts raising the key ECB interest rates. On 12 March 2020 the ECB Governing Council decided to add "a temporary envelope of additional net asset purchases of EUR 120 bn" until the end of 2020.

> FIGURE 6: AVERAGE MONTHLY NET PURCHASES (OCTOBER 2014 TO JUNE 2021)



Source: ECB, UniCredit Research

As of the end of June 2021, the ECB reported covered bond holdings of EUR 291.76 bn under the CBPP3 at amortised cost, deriving from primary market (36.4%) and secondary market sources (63.6%). In addition, the remaining holdings from terminated covered bond purchase programmes were reported as EUR 0.4 bn under the CBPP1 and EUR 2.4 bn under the CBPP2.

> FIGURE 7: KEY CBPP CRITERIA IN COMPARISON

	<b>CBPP1</b>	<b>CBPP2</b>	<b>CBPP3</b>		
			(Net purchase phase)	(Reinvestment phase)	(Restarted net purchase phase)
Programme size	EUR 60 bn	EUR 40 bn	Not specified*	Unchanged*	Unchanged* (temporary additional increase from March 2020 until December 2020)
Purchase period	7/2009 to 6/2010	11/2011 to 10/2012	10/2014 to 12/2018	1/2019 to 10/2019	Ongoing since 11/2019 (no fix end-date announced)
Amount purchased	EUR 60 bn	EUR 16.4 bn	EUR 262.2 bn as of 12/31/2019	Reinvestment of maturing CBPP-holdings	EUR 291.8 bn as of end-June2021
Bond size	EUR 500 mn or above as a rule and in any case not lower than EUR 100 mn	EUR 300 mn or above	Not specified	Unchanged	Unchanged
Minimum rating	AA as a rule and in any case not lower than BBB-	BBB-	BBB- (special criteria for Cyprus and Greece)	Unchanged	Unchanged
Residual maturity	Not specified but focus on 3Y-7Y	Maximum 10.5Y	Not specified	Unchanged	Unchanged
Underlying assets	Exposure to private and/or public entities	Exposure to private and/or public entities	Exposure to private and/or public entities	Unchanged	Unchanged
Retained issues	Not eligible	Not eligible	Eligible	Unchanged	Unchanged
Restrictions on redemption format	Not specified	Not specified	At least Credit Quality Step 3 rating of issuer in case of Conditional Pass-Through structures (as of February 2018)	CPT-structures excluded in re-investment phase	CPT-structures excluded
Limit per ISIN	Not specified	Not specified	70% joint limit of CBPP 1, 2 and 3	Unchanged	Unchanged

\* Covered bond purchases as part of overall APP purchases without specific quota

Source: ECB, UniCredit Research

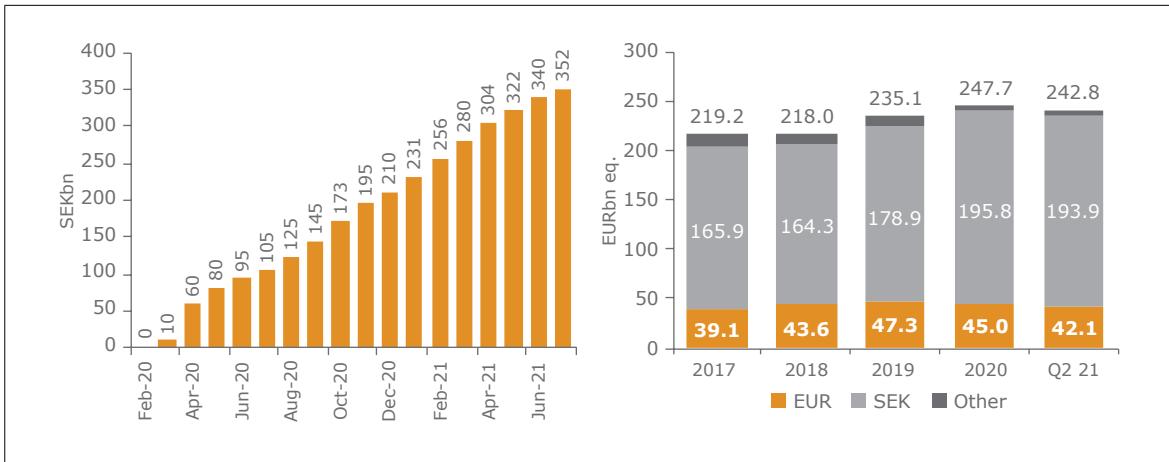
## **SWEDEN**

Swedish covered bond issuers have been largely absent from the EUR covered bond market since the Swedish Riksbank decided to buy domestic SEK covered bonds under its asset purchase programme in March 2020 to mitigate the effects of COVID-19 on the Swedish economy. In November 2020, the size of the overall programme was increased by SEK 200 bn to SEK 700 bn, and its duration was extended by six months until the end of 2021. The Swedish central bank has stated that the envelope for asset purchases will be fully utilised and that the size of the holdings will be maintained at this level at least during 2022. Covered bond holdings under the programme already exceed SEK 350 bn (as of 13 August) and the Riksbank plans to raise covered bond purchases to SEK 435 bn by 31 December 2021.

Covered bond purchases by the Riksbank have increased the attractiveness of domestic covered bond issuance relative to issuance in other currencies, given that Swedish covered bonds issued in EUR are not eligible under the ECB's purchase programme. Unsurprisingly, this has been reflected in a significant increase in the

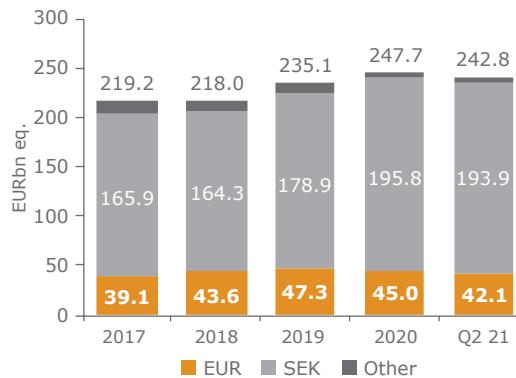
outstanding SEK covered bond volume, by more than 5% in 2020 to SEK 1,964 bn (EUR 195.8 bn eq.). On the other hand, there have been only very few EUR benchmark transactions by Swedish issuers since the start of the purchase programme. The outstanding volume of EUR denominated Swedish covered bonds therefore fell by 5% last year to EUR 42 bn at the end of Q2 21. The end of the net covered bond purchases by the Riksbank – which is planned for the end of this year – should allow the relative value between EUR and SEK covered bond issuance to normalise again. However, this will likely happen over time and in our view, would not immediately lead to a jump in EUR issuance by Swedish banks at the beginning of 2022, particularly as the Riksbank stated it will keep the size of holdings unchanged at least until the end of next year.

> FIGURE 8: COVERED BOND PURCHASES BY THE RIKSBANK



Source: HSBC, Riksbank

> FIGURE 9: SWEDISH CB ISSUANCE BY CURRENCY



Source: HSBC, Association of Swedish Covered Bond issuers

## NORWAY

In contrast to many other central banks, the Norwegian central bank, Norges Bank, decided against setting up a separate covered bond purchase programme and against creating a specific term funding facility to smooth the impact of the COVID-19 pandemic on the banking sector. Instead, in March 2020, Norges Bank made changes to its repo collateral guidelines and temporarily removed the 20% maximum ISIN limit. Normally Norwegian banks can only pledge up to 20% of a security other than Norwegian government bonds as collateral. Under the temporary rule, there was no upper limit on the collateral a borrower can pledge per ISIN, allowing banks to post up to 100% of covered bonds issued by their subsidiaries as repo collateral. In February 2021, the ISIN limit, however, was tightened to 50%. And as of 31 August 2021, the relaxation in the guidelines was reversed and the old rules were re-established, i.e. in the case of securities other than Norwegian government bonds, a borrower cannot pledge more than 20% of the issues' outstanding volume anymore.

## DENMARK

Danmarks Nationalbank never launched an asset purchase programme in response to the COVID-19 pandemic. Instead, the central bank remained fully committed to its fixed exchange-rate policy against the euro. This prompted the central bank to hike rates in March 2020 where other central banks were cutting rates in response to the COVID-19 pandemic. However, after the start of the COVID-19 pandemic Danmarks Nationalbank did make sure that Danish bank and mortgage credit institutions would maintain access to liquidity at favourable terms. To this purpose the central bank launched an extraordinary lending facility on 12 March 2020, providing one week loans against collateral at an interest rate of -0.5%. The extraordinary lending facility was expanded a week later with a 3m lending facility, but the interest rate on the extraordinary lending facility was increased

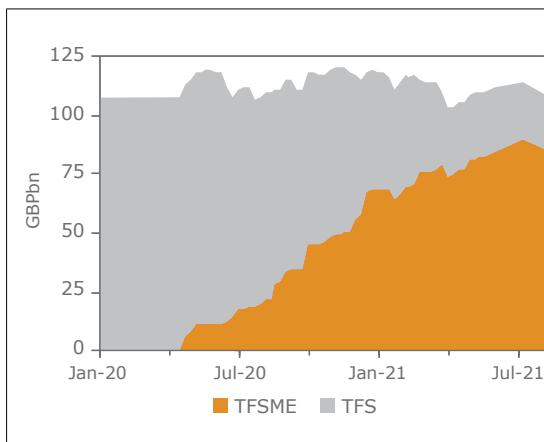
at the same time to -0.35%. The one week extraordinary loans were no longer offered per 19 March 2021, while the 3m lending facility ended on 2 July 2021. Danish bank and mortgage credit institutions have made little use of the extraordinary lending facility since June 2020.

### **UNITED KINGDOM**

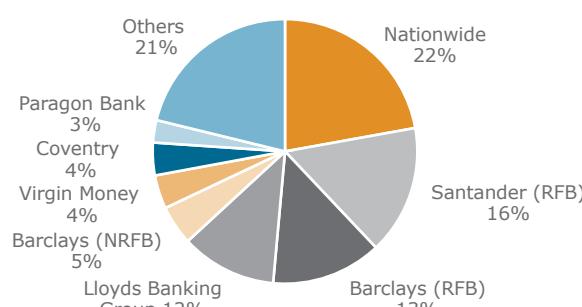
Many UK banks have been heavy users of the Bank of England's term funding facilities. Figure 10 shows that borrowings under the Term Funding Scheme (TFS) have dropped from GBP 123 bn in April 2020 to GBP 22 bn as of 18 August 2021, while over the same period the volumes under the Term Funding Scheme with additional incentives for SMEs (TFSME) have increased to GBP 88 bn. This means UK banks have borrowed on aggregate more than GBP 100 bn from the Bank of England since the start of the TFSME. The cheap funding channel provided by the Bank of England has lowered the wholesale funding market needs of many UK issuers and has resulted in a considerable drop in covered bond issuance by UK banks. Between January 2020 and August 2021, there have been less than a handful of EUR transactions. Also, volumes by UK covered bond issuers in the GBP market have been subdued over the last couple of years.

That said, some issuers have already started to repay TFSME money while others have opted out of the TFSME extension and can no longer draw from the scheme since the end of April 2021. The drawdown period of the TFSME is scheduled to run out on 31 October 2021. If the Bank of England does not prolong the term facility, we would expect the UK banks to return to the wholesale market and issue more covered bonds denominated in GBP as well as EUR. However, this should be taken with a pinch of salt as the TFSME loans have a relatively long term of four years, which can be extended up to ten years in case of bounce back loans (BBLs).

> FIGURE 10: RISE IN TFSME DRAWINGS OFFSETS FALL IN TFS VOLUMES



> FIGURE 11: TFSME DRAWINGS BY UK BANK AND BUILDING SOCIETIES



Source: HSBC, Bank of England

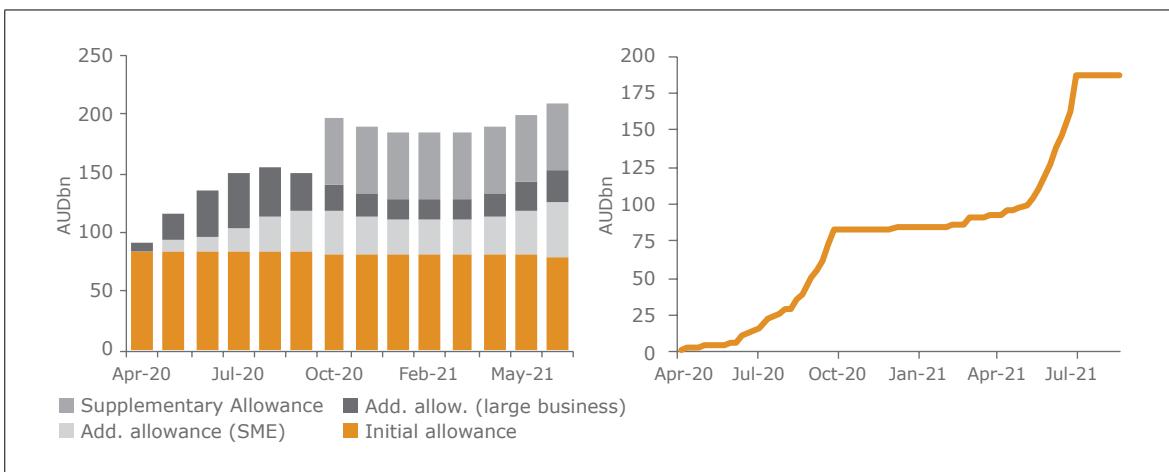
### **AUSTRALIA**

In response to the COVID-19 crisis, the Reserve Bank of Australia (RBA) established in March 2020 a Term Funding Facility (TFF) offering three-year funding to Australian banks (i.e. authorised deposit-taking institutions; ADIs) up to an individual funding allowance based on the banks' lending volumes. The two main objectives of the RBA were (i) reducing the funding costs of banks and in turn the interest rates for borrowers and (ii) encouraging lending to all businesses, with additional incentives for small and medium-sized enterprises (SMEs). In September 2020, the drawdown period was extended to the end of June 2021 and in November 2020, the fixed interest rate of 0.25% initially was cut to 0.1%.

Between April 2020 and the end of the drawdown period on 30 June 2021, Australian banks drew almost AUD 190 bn under the TFF which significantly lowered the wholesale funding needs of the Australian covered bond issuers and has been the main reason for the low covered bond supply volumes by Australian issuers over the last few years.

> FIGURE 12: TFF ALLOWANCE EXCEEDED AUD 200 BN

> FIGURE 13: TFF DRAWDOWNS AMOUNT TO ALMOST AUD 190 BN



Source: HSBC, Reserve Bank of Australia

## CANADA

Canadian issuers have historically been one of the most active covered bond issuers across the three major covered bond currencies EUR, USD, and GBP. Following the spike in supply volumes in March and April last year, however, the primary market activity of Canadian issuers dropped considerably. The main driver was the decision by the Bank of Canada at the beginning of the COVID-19 crisis in March 2020 to accept own-use covered bonds as repo collateral. This resulted in more or less a standstill in covered bond issuance by Canadian banks as they opted for central bank funding using retained covered bonds.

That said, since June 2021, the supply volumes by the Canadian issuers across the three major currencies have started to increase again. The return of the Canadian issuers is driven by a variety of factors, including the removal of own-use covered bonds from the list of eligibility collateral at the Bank of Canada, the unwinding of the temporary increase in issuance cap for covered bonds, as well as falling deposit volumes after last year's surge.

In response to the COVID-19 pandemic, the Office of the Superintendent of Financial Institutions (OSFI) introduced a number of extraordinary regulatory measures to support the financial and operational resilience of the Canadian banking sector in March 2020. These measures included a temporary increase in the covered bond limit to 10%, to facilitate greater access to the Bank of Canada, which temporarily accepted own-use covered bonds as eligible repo collateral. OSFI normally limits a bank's issuance of covered bonds to 5.5% of the bank's total assets. The temporary limit increase only applied to covered bonds pledged directly to the Bank of Canada while the limit relating to covered bonds sold into the wholesale market remained at 5.5%. In October 2020, own-use covered bonds were removed from the Bank of Canada's list of eligible collateral. As a result, the temporary increase in the covered bond limit by OSFI was no longer necessary and OSFI unwound the temporary increase in the covered bond limit in April 2021.

These emergency measures by the Bank of Canada and the OSFI heavily influenced the issuance behaviour of Canadian banks. Following the Bank of Canada's decision in March 2020 to accept own-use covered bonds as repo collateral, Canadian banks issued CAD 53 bn of retained covered bonds in March alone. The aggregated volumes peaked in June 2020 at CAD 92 bn. Since April 2021, a large portion has been redeemed and the outstanding amounts have fallen to CAD 39 bn as of 30 July 2021. Please note, these figures are based on Bloomberg data and the issuers' covered bond investor reports. The actual amounts posted as repo collateral with the Bank of Canada might differ from these volumes.

## **THE IMPLICATIONS**

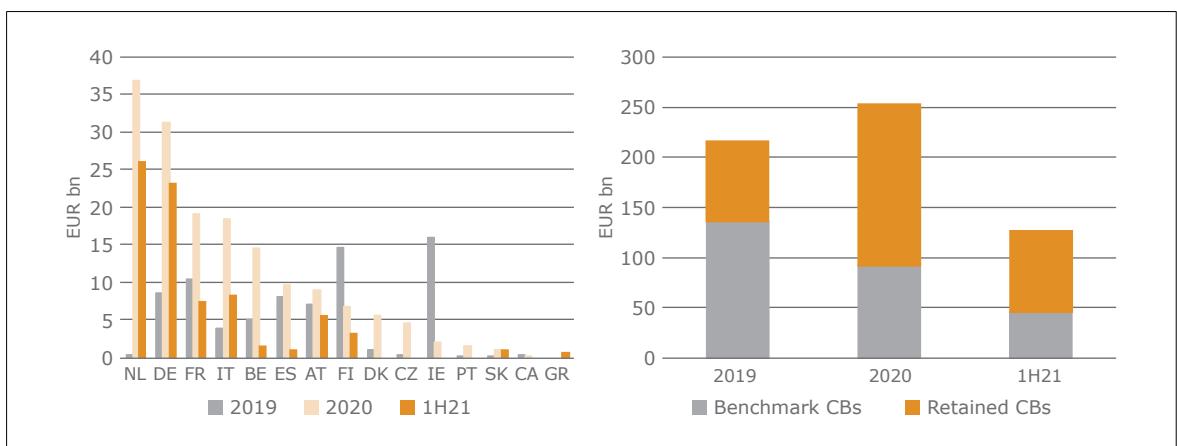
### **Supply indications**

The series of policy measures in response to COVID-19, especially the recalibration of TLTRO III conditions in April 2020, had a strong effect on covered bond supply. The consequence was a shift from publicly placed covered bonds towards retained covered bonds. Banks decided to issue large amounts of retained covered bonds (or own-use covered bonds) in order to place them as collateral for refinancing operations rather than publicly sell them to investors. Thus, the volume of retained covered bonds has increased significantly in 2020 and at the beginning of 2021, while the amount of publicly placed covered bonds declined.

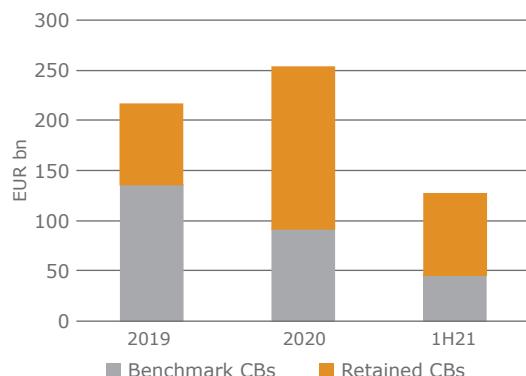
In 2020, EUR 161 bn of retained covered bonds have been issued and in 1H21 the volume was almost EUR 80 bn. These large volumes are comparable to levels seen only in 2011/2012. However, in contrast to the past, the highest volumes were generated by banks from markets such as the Netherlands, Germany or France and not from countries like Spain or Italy. While the overall volume of issued covered bonds remained high and even increased, the share of publicly placed covered bonds declined (2019: EUR 140 bn, 2020: EUR 94 bn; 1H21: EUR 46 bn) to the benefit of retained covered bonds. While in 2019 the share of publicly placed benchmark covered bonds was 63%, this share dropped to 37% in the first half year of 2020. Due to the reduced issuance of publicly placed benchmark covered bonds, the net supply in 2020 was negative with EUR -26 bn, which compares to a positive net supply of EUR 32 bn in 2019.

## **ISSUANCE OF RETAINED AND PUBLICLY PLACED COVERED BONDS**

> FIGURE 14: RETAINED COVERED BONDS ISSUED BY COUNTRY  
(EURO-DENOMINATED >EUR 50 MN)



> FIGURE 15: AGGREGATED COVERED BOND SUPPLY



Source: ECB, Bloomberg, UniCredit Research

As of the end of June 2021, the ECB reported a total of EUR 2,796 bn of collateral placed with the Eurosystem, of which EUR 694 bn were covered bonds. The EUR 694 bn of used collateral in the form of covered bonds com-

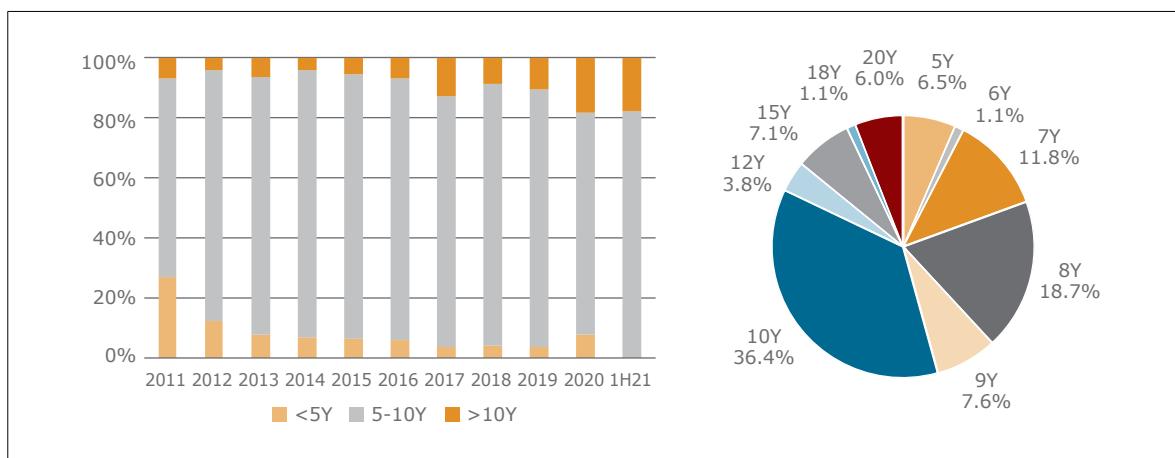
pare to EUR 1,624 bn of eligible covered bond collateral or 42.8%. On top of this, EUR 292 bn were held by the ECB under the CBPP3 and around EUR 5 bn under the PEPP. Thus, in total, around 61% of all eligible covered bonds were linked to the ECB, either as collateral in repo transactions or as part of the ECB's CBPP3 portfolio.

### **Impact on tenors**

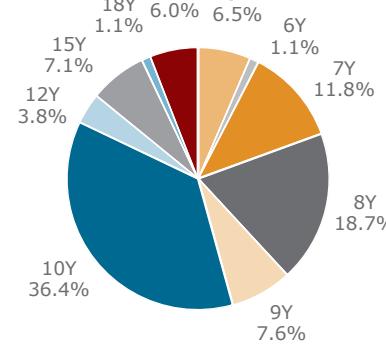
Over the past decade, the tenor of publicly placed bonds has gradually increased. Besides the low yield environment, one of the drivers was that especially shorter maturities up to five years faced strong competition from funding opportunities in the context of central bank measures. As a consequence, shorter (covered bond) funding needs very increasingly covered by central bank funding and the tenor of publicly placed covered bonds was extended. While in 2011 around 27% of publicly placed EUR benchmark covered bonds had a tenor of below five years, this share dropped to 8% in 2020 and to 0% in the first half of 2021. At the same time, the share of long-dated covered bonds (time to maturity of above ten years) increased from 7% in 2011 to 18% in 2020 and the first half of 2021. In 1H21, the average tenor was 10.3Y, which is the longest average tenor in the past decades.

### **IMPACT ON TENOR**

> FIGURE 16: PAST DECADE MATURITY SPLIT OF EUR BENCHMARK COVERED BONDS



> FIGURE 17: 1H21 MATURITY SPLIT OF EUR BENCHMARK COVERED BONDS

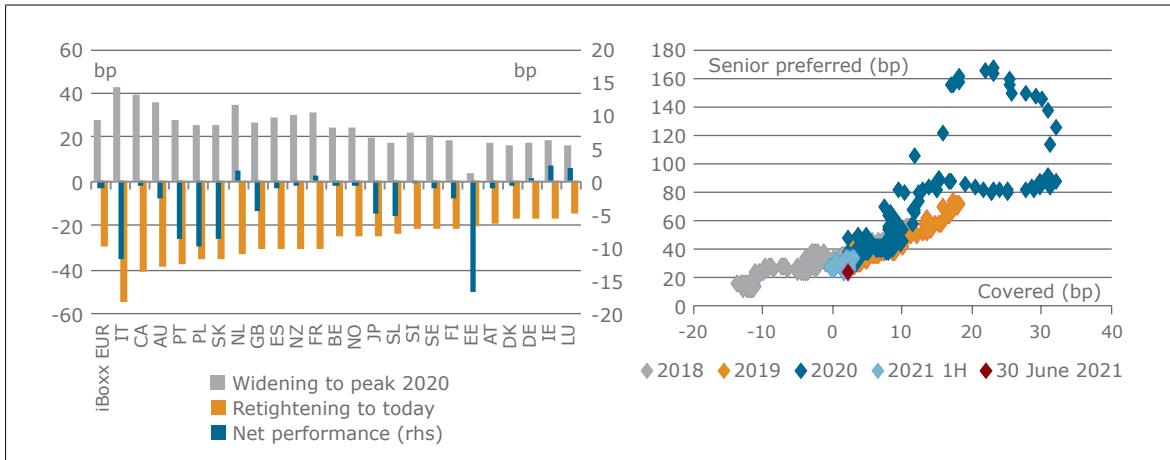


Source: UniCredit Research

### **Performance implications**

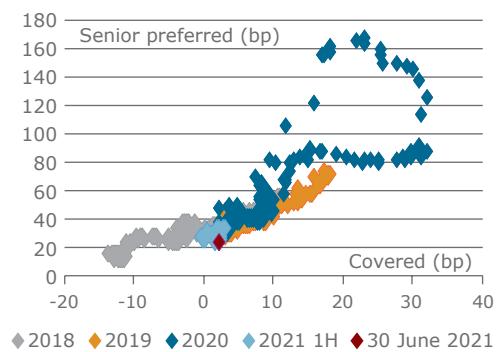
The unprecedented measures taken by central banks across the globe against the backdrop of the COVID-19 pandemic have proven to be extremely effective in terms of easing the impact of the pandemic on performance. Most covered bond markets are currently quoted at tighter spread levels than in January 2020 ahead of the pandemic. Nonetheless, not even the significant drop in covered bond supply thanks to the cheap central bank liquidity offered, has managed to manoeuvre covered bond spreads back to the negative levels seen last in 2018. This has different reasons. Firstly, the deeply negative yield levels have been a constraint to the performance of covered bonds in asset swap terms, even though the rise in yields in 1H 21 did free up some space for performance. Secondly, the underperformance of German sovereign bonds versus swaps that started in 2019 has limited the spread tightening of covered bonds. Thirdly and more recently, the significant supply by the EU and relatively attractive trading levels of SSA alternatives have dampened the performance upside for covered bonds. This explains why covered bond spreads remain at the wider end of their historical trading range given preferred senior spread levels.

> FIGURE 18: IN MOST COUNTRIES SPREADS ARE TIGHTER THAN LAST YEAR'S LOWS AHEAD OF THE PANDEMIC



Source: Markit iBoxx, ING

> FIGURE 19: COVERED BONDS RESPONDED MORE GRADUALLY TO THE COVID-19 CRISIS IN 2020 THAN PREFERRED SENIOR



Source: Markit iBoxx (French banks), ING

## Conclusion

Central banks across the globe have taken action in the past year to ease the impact of the COVID-19 pandemic on the financial sector and its ability to continue to grant loans. These measures have been implemented in different forms, varying from asset purchases, easing of collateral eligibility criteria or the offering of cheap financing to the banking sector. What they generally did have in common, was their notable effect on covered bond markets. Particularly the impact on primary market activity has been strong. Cheap central bank funding replaced the need for banks to attract funding via the covered bond market, resulting in a substantial drop in the issuance of covered bonds in the public domain, while instead the use of retained covered bonds as collateral thrived. These central bank measures have proven to be very constructive to performance and their impact will probably be felt until well into 2022.

## **1.4 ENERGY EFFICIENT MORTGAGES INITIATIVE – EEMI**

By Cristina Costa, Société Générale and EMF-ECBC Secretariat

Climate change indiscriminately affects every region of the planet and therefore calls for a global and comprehensive approach, one that the EU can help to lead. Despite the challenge represented by the COVID-19 pandemic and the resulting economic crisis, which has required gigantic efforts by both national and European policymakers over the last two years, the European Institutions have set highly ambitious targets to fight climate change, seeking to turn the Old Continent into the first carbon-neutral economic area by 2050.

However, this overarching EU approach necessitates the involvement of civil society and enterprises as well, which cannot achieve the required environmental outcomes without institutional support. As remarked by European Commission President, Ursula Von der Leyen, in her speech on 9 May 2021 launching the Conference on the future of Europe, European citizens' contributions are crucial to address fundamental issues such as health, good and sustainable jobs, and climate change in a more and more digital economy, in order to shape the Europe they want to live in.

At this unprecedented time, civil society is called to action to design and shape a better future for the next generations. The European Mortgage Federation-European Covered Bond Council (EMF-ECBC) wants to be part of this democratic debate as the voice of an Industry representing c. 50% of EU GDP and playing a crucial role in the current socio-economic landscape. In its role as a trade association, the EMF-ECBC supports the daily lives of millions of citizens, by promoting social bonds through sustainable mortgages and, more importantly, the democratic process of national and European legislators in shaping the regulatory environment where the opportunities for citizens and businesses are built.

This democratic exercise will guide society out of the current crisis, support the climate transition and implement a new economic paradigm. The Conference on the future of Europe is furthermore intended to continue the democratic journey towards peace and prosperity, started 71 years ago with the Schuman Declaration.

In this context, the EU is committed to reduce its own primary energy consumption by 32% by 2030, as witnessed with the adoption of the Green Deal in 2019, further complemented in October 2020 with the Renovation Wave Strategy and, in April 2021, with the EU Taxonomy. Both the latter provisions encompass the building sector, globally identified as one of the main producers of CO<sub>2</sub> emissions. Nevertheless, these legally enshrined efforts need to be supported by adequate funding schemes as the scale of investment required to meet the energy savings targets alone is estimated at €180 billion p.a., three-quarters of which is accounted for by energy efficiency in buildings.

Moreover, within this framework, the financial services sector covers a non-secondary position considering that the achievement of sustainability by the Industry has a crucial role in the transition to a climate-neutral economy. In particular, the mortgage credit sector has the potential to play a transformative role in relation to the attainment of the 2050 emissions targets for both the building and financial sectors.

This is precisely what the EU-funded Energy Efficient Mortgages Initiative (EEMI), launched five years ago, has been doing, by establishing a comprehensive ecosystem around Energy Efficient mortgages through a pan-European market-led initiative, bringing together lending institutions, investors, utilities, and public authorities. The Initiative covers the whole scope of action in the energy efficiency improvement process, for the benefit of citizens, enterprises and broader society.

Indeed, since 2016, the EEMI, which comprises three inter-linked EU-funded Horizon 2020 Projects (see below) and is coordinated by the EMF-ECBC, has been leading market efforts together with a consortium of expert partners<sup>1</sup>. With the EU's households and businesses at its heart, the Initiative delivers the capabilities to support the financing of the renovation of the EU's building stock, 35% of which is over 50 years old and almost 75% of which is energy inefficient.

More specifically, the EEMI is divided into three projects, comprehensively matching the European Commission's own framework for climate and energy policies. The Initiative began with the Energy efficient Mortgages Action Plan (EeMAP), was followed by the Energy efficient Data Protocol and Portal (EeDaPP) and continues today with the Energy efficient Mortgage Market Implementation Plan (EeMMIP). Together, these projects represent the kingpins of the EMF-ECBC's mission: to finance the greening of the aging European building stock. This goal will be reached by providing, respectively:

- > an effective and functional ecosystem aimed at creating an energy efficient mortgage through which homebuyers are incentivised to improve the energy efficiency of their home or acquire an already energy efficient property by way of favourable conditions linked to the mortgage;
- > a large-scale, financial standardised data protocol related to energy efficient mortgages, accessible through a common, centralised portal, which allows empirical demonstration of the negative correlation between energy efficiency and risk; and
- > an implementation plan aimed at permitting the project to be operational by delivering an integrated market in energy efficient mortgages and a blueprint for established and emerging markets around the globe.

Alongside the EEMI, the Energy Efficient Mortgage (EEM) Label<sup>2</sup> is a new quality instrument allowing transparent identification of energy efficient mortgages for market stakeholders. The Label was launched in February 2021, with the support of the European Commission and denotes a further effort that the EMF-ECBC is making towards the sustainable finance and real estate/building sectors, in compliance with the EU legal framework. Indeed, the Label allows easier access to energy efficiency financing, green bond markets, better tracking of EEM performance, provides greater transparency of climate risks and portfolio resilience, and fights greenwashing. The Label enables lending institutions that are committed to continuous progress and improvement initiatives to disclose energy efficiency related data through the Label's Harmonised Disclosure Template (HDT), and thereby jumpstart the investment and mortgage market for energy efficiency finance.

Ultimately, drawing on the extensive experience of the Covered Bond Label<sup>3</sup>, the EEM Label is proposed as a market intervention to support recognition of and confidence in energy efficient mortgages, and facilitate access to relevant, quality, and transparent information for market participants. The Label relies on the EeDaPP data protocol to develop a harmonised disclosure template for the disclosure of mortgage products compliant with the Label criteria. The effort in creating a standardisation would in due course facilitate investors' ESG due diligence and enhance overall transparency in the EEM and bond markets.

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<sup>1</sup> [www.energyefficientmortgages.eu](http://www.energyefficientmortgages.eu)

<sup>2</sup> [www.energy-efficient-mortgage-label.org](http://www.energy-efficient-mortgage-label.org)

<sup>3</sup> [www.coveredbndl.com](http://www.coveredbndl.com)

In February 2021, the EEMI achieved a big milestone through the launch of the [Energy Efficiency Mortgage Label](#) (EEML). Based on self-certification of compliance with the EEM definition of an energy efficient mortgage, the Label is a quality label for consumers, lenders and investors, aimed at identifying energy efficient mortgages in lending institutions' portfolios. Under the Label, banks commit to develop specific mortgage products to finance energy efficient homes or home energy renovation.

The EEML is intended to scale-up private market support for the NextGenerationEU vision, the EU Renovation Wave Strategy and the EU Green Deal, by acting as a catalyst for consumer demand and a driver of the qualitative upgrade of the energy profile of lending institutions' portfolios and of enhanced asset quality. Following on from the ECBC's Covered Bond Label, the EEML will allow for identification, exchange and implementation of market and legislative best practices at European and international levels, particularly in light of the adoption of the EU Taxonomy.

With a growing focus on sustainable finance – from regulators, market participants and investors alike – transparency and disclosure are becoming key. Considering this, the [Harmonised Disclosure Template](#) (HDT) will allow for improved comparability of energy efficiency mortgages. The key is to establish centralised and up-to-date qualitative and quantitative information, which will be available for investors, regulators and other market participants.

The EEML provides information on the portfolios of energy efficient loans as assets to be included in green covered bonds, allows for enhanced evaluation and tracking of their financial performance relative to alternatives and provides greater transparency regarding climate risks and resilience. The one-year phase-in period during which the completion and publication on the lending institution's website of the HDT is not compulsory but highly recommended. After this period, completion and publication of the HDT will become compulsory.

The initiative comes at a pivotal point in time, where efforts are underway at EU level to redesign the regulatory and monetary policy framework to address climate change risk and support the transition to a more sustainable economy. As of August 2021, **thirty pioneering lending institutions** from **thirteen countries** had already adopted the **Energy Efficient Mortgage (EEM) Label**, covering the four corners of the Old Continent, large and small lending institutions, traditional banks and FinTech platforms. Over the summer first lenders have been starting as well to provide completed HDTs with ESG data on their relevant portfolios, such as EPC breakdown, house age structure, type of dwellings and energy demand overview.

## **1.5 SUSTAINABLE COVERED BONDS: MARKET OVERVIEW**

By Maureen Schuller, ING Bank N.V., Cristina Costa, Société Générale and Joost Beaumont,  
ABN AMRO Bank N.V.

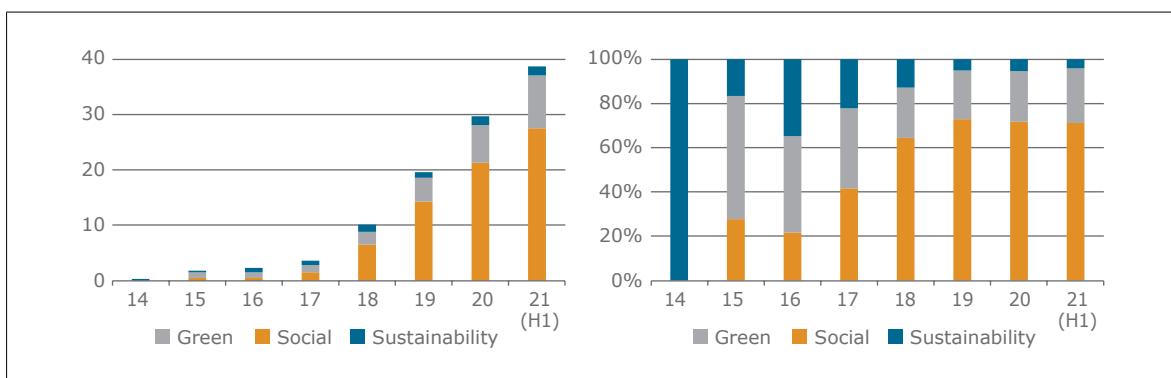
### **The market for sustainable covered bonds**

The covered bond market welcomed the first sustainable covered bond in 2014, followed by an inaugural green euro benchmark covered bond in 2015. Furthermore, the first social covered bond was also issued in 2015. The market of sustainable covered bonds has continued to expand ever since, with the total amount outstanding around EUR 39 bn at the end of June 2021. This key theme chapter will provide an overview of the market, focussing on its size, flavours, new supply, investor base, relative value, use of proceeds, sustainable bond indices and central bank policy related to climate risk.

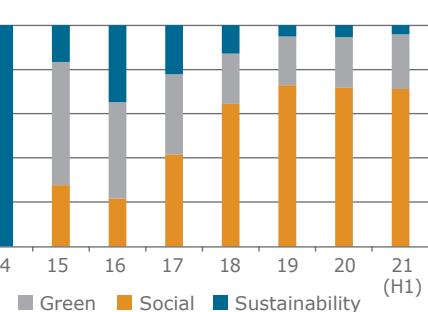
### **Size of the sustainable covered bond market**

Sustainable covered bonds have been issued in different formats, ranging from green and social to sustainability covered bonds. The different flavours reflect the different use of proceeds of the bonds (please see for more details Chapters 1.6 and 1.7 of this Fact Book). In short, green covered bonds are aligned with the ICMA's Green Bond Principles, with the proceeds of the bonds being used to (re)finance green projects. In case of covered bonds these are often linked to energy-efficient buildings. Social covered bonds are mostly aligned with the ICMA's Social Bond Principles. The proceeds of the bonds are used to (re)finance social projects, which in case of covered bonds is largely related to affordable housing or public lending. Finally, sustainable covered bonds are aligned with the ICMA's Sustainability Bond Guidelines, which tends to be a mix of green and social projects, for instance, energy-efficiency as well as affordable housing. Green covered bonds form the majority of outstanding sustainable covered bonds, as they had a 71% share in total sustainable covered bonds outstanding at the end of June 2021. Social covered bonds had a share of 25% and sustainability covered bonds 4% (see graph below right).

> FIGURE 1: OUTSTANDING AMOUNT OF SUSTAINABLE COVERED BONDS, EUR BN



> FIGURE 2: SHARE OF GREEN, SOCIAL AND SUSTAINABILITY COVERED BONDS IN TOTAL, %



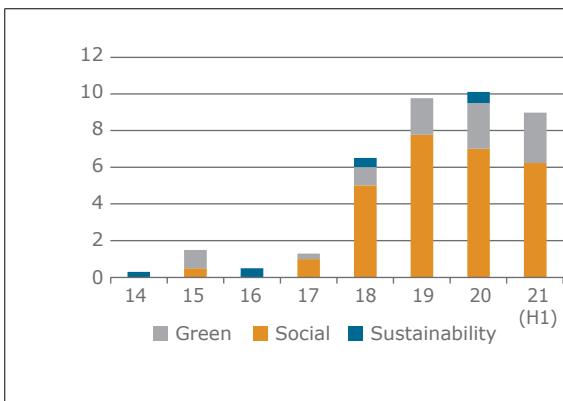
Source: ECBC, ABN AMRO, Bloomberg

### **New issuance of sustainable covered bonds gaining momentum**

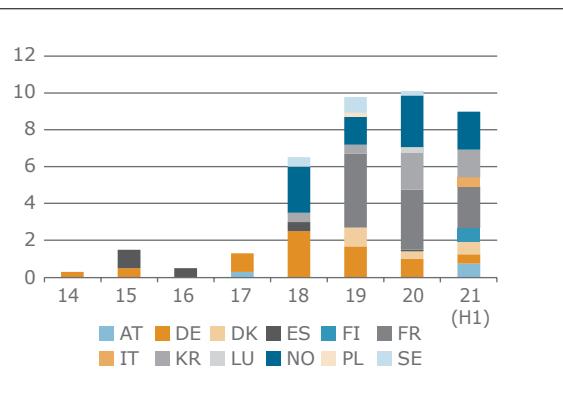
The sustainable footprint of the covered bond market has grown over the years, with new supply having gained real momentum since 2018. That year, more than EUR 6bn of sustainable covered bonds were issued across all currencies and issue sizes. In 2019, new supply rose to almost EUR 10 bn, while it exceeded this amount last year. In 2021, EUR 9bn of sustainable covered bonds were issued during January to June, suggesting that a new record could be set this year.

A breakdown by covered bond type shows that the majority of sustainable covered bonds is backed by mortgages (87% of the amount outstanding), with the remaining 13% backed by public sector loans. This mirrors the fact that most sustainable covered bonds are green bonds, financing energy-efficient buildings. Finally, issuers of sustainable covered bonds come from an increasing number of countries. At the start, German and Spanish issuers dominated the market, but currently there are 12 jurisdictions out of which sustainable covered bonds are being issued (see graph below right). Regarding currencies, the euro is dominant, while there are also DKK, NOK, SEK, and USD denominated sustainable covered bonds.

> FIGURE 3: NEW ISSUANCE OF SUSTAINABLE COVERED BONDS, EUR BN



> FIGURE 4: NEW ISSUANCE OF SUSTAINABLE COVERED BONDS BY COUNTRY, EUR BN

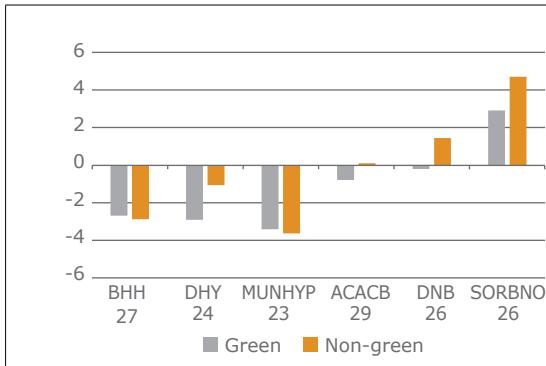


Source: ECBC, ABN AMRO, Bloomberg

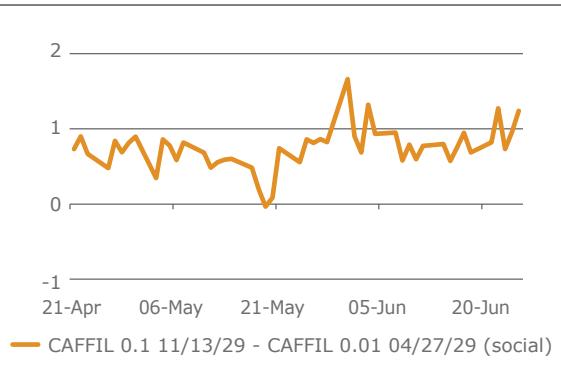
Focusing on euro benchmark covered bonds and taking the June composition of the iBoxx EUR benchmark covered bond index, the total amount of sustainable covered bonds in the index equaled EUR 25bn, which is 3.3% of the total index. Of these, EUR 18bn were green covered bonds (2.4%). This shows that sustainable covered bonds are still a niche product, although their share in the index is likely to grow over time. Indeed, the share of sustainable covered bonds in total issuance of euro benchmark covered bonds was 7.2% in 2020, while this has risen to 16.4% by the end of June 2021. The approval of the EU taxonomy is likely to support issuance of sustainable covered bonds, given the clarity that it provides about the use of proceeds.

A key reason for issuers to come to the market with covered bonds in sustainable format is that these bonds can be priced with a premium (or so-called greenium), largely reflecting the broader investor base (see also below). We compared the trading levels of green covered bonds versus non-green covered bonds from the same issuer as well as having a roughly similar duration. This gives a rather pure measure of the greenium. The graph below left shows the results, underlining that in most cases green covered bonds do indeed trade at a (slightly) tighter levels than their non-green peers.

> FIGURE 5: Z-SPREAD OF GREEN COVERED BONDS VERSUS NON-GREEN PEERS, BP



> FIGURE 6: Z-SPREAD OF SOCIAL VERSUS NON-SOCIAL COVERED BONDS, BP



Source: ECBC, ABN AMRO, Bloomberg

Meanwhile, the graph above right shows the z-spread differential between a French social covered bond and a non-social covered bond. The graph suggests that the non-social covered bond trades around 1bp wider compared to its social peer, although this could also reflect that the non-social covered bond has a slightly longer duration. In any case, the difference seems relatively small, which might be explained by the fact that covered bonds are already trading at relatively tight levels, providing limited room for sustainable covered bonds to trade much tighter than non-sustainable peers.

### **SUSTAINABLE COVERED BONDS FINANCE A BROAD VARIETY OF ASSETS**

Sustainable covered bonds are mostly issued conform the four pillars of the ICMA's Green Bond Principles (GBP), Social Bond Principles (SBP) or Sustainability Bond Guidelines (SBG), with a dedicated environmentally sustainable and/or a social use of proceeds. Sustainability linked bonds (SLB) are still a novelty in the banking segment and have thus far not been issued in covered bond format.

> FIGURE 7: SUSTAINABLE COVERED BONDS SEEK ALIGNMENT WITH THE GBP, SBP AND SBG

<b>Four components of alignment</b>				
<b>I Use of proceeds</b>				
<b>Green</b>				<b>Social</b>
1	Renewable energy	✓	1	Affordable basic infrastructure
2	Energy efficiency	✓	2	Access to essential services
3	Pollution prevention and control	✓	3	<b>Affordable housing</b>
4	Environmentally sustainable management of living natural resources and land use	✓	4	Employment generation, and programs designed to prevent and/or alleviate unemployment stemming from socioeconomic crises, including through the potential effect of SME financing and microfinance
5	Terrestrial and aquatic biodiversity	✓	5	Food security and sustainable food systems
6	Clean transportation	✓	6	Socioeconomic advancement and empowerment
7	Sustainable water and wastewater management	✓		
8	Climate change adaptation	✓		
9	Circular economy adapted products, production technologies and processes, and/or certified eco-efficient products	✓		
10	<b>Green buildings</b>	✓		
<b>II Process for project evaluation and selection</b>				
<b>III Management of proceeds</b>				
<b>IV Reporting</b>				
<b>Key recommendations for heightened transparency</b>				
i Green, social or sustainability bond frameworks				
ii External reviews				

Source: ICMA, ING

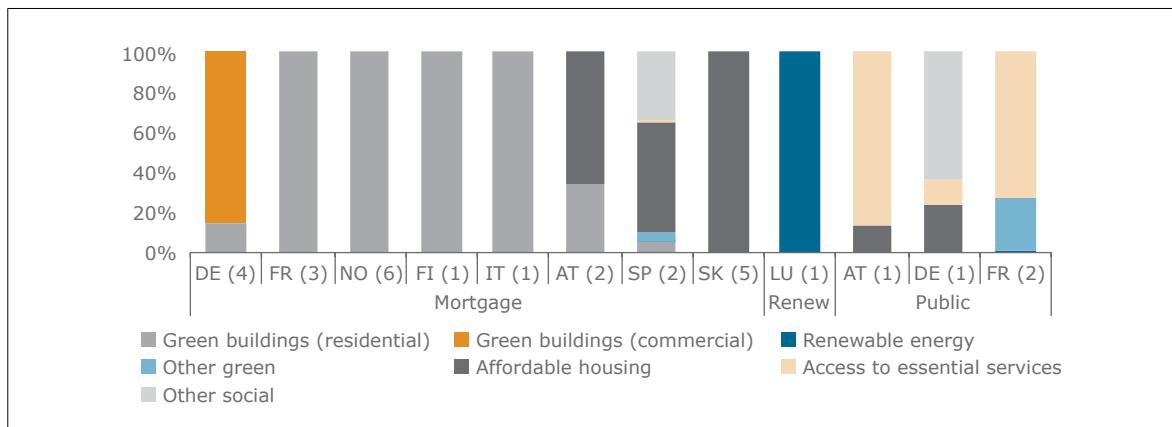
Issuers of sustainable covered bonds generally strive to have sufficient eligible green and/or social loans in the cover pool to at least match the amount of sustainable covered bonds outstanding. For that reason, these loans not only have to meet the criteria stipulated in the sustainable bond framework, but also the asset eligibility criteria under the respective covered bond legislation or programme documentation. However, despite the applicable cover pool eligibility constraints, sustainable covered bonds are used to finance a wide range of green and social loans.

Green **mortgage covered bonds** primarily finance energy-efficient commercial or residential buildings, with green residential real estate loans nowadays being the most important use of proceeds category. Instead, banks with mortgage cover pools (partly) comprised of social housing loans often issue social or sustainability mortgage covered bonds.

Access to essential services is the most important use of proceeds category for sustainable **public sector covered bonds**. These bonds were at first solely issued in social format to finance community projects in areas of healthcare and education. However, 2019 also featured the first green public sector covered bond financing assets in the sustainable water and sanitation, waste management, energy efficiency, renewable energy and territorial mobility/soft urban transport segments.

The first **renewable energy covered bond** under the Luxembourg covered bond law was printed in 2020. The bond extended the green covered bond issuance beyond the traditional mortgage and public sector covered bond segments and remains up until today the one single example of a sustainable covered bond issued under a dedicated legal framework for the issuance of green covered bonds.

> FIGURE 8: USE OF PROCEEDS SUSTAINABLE EUR BENCHMARK COVERED BONDS\*

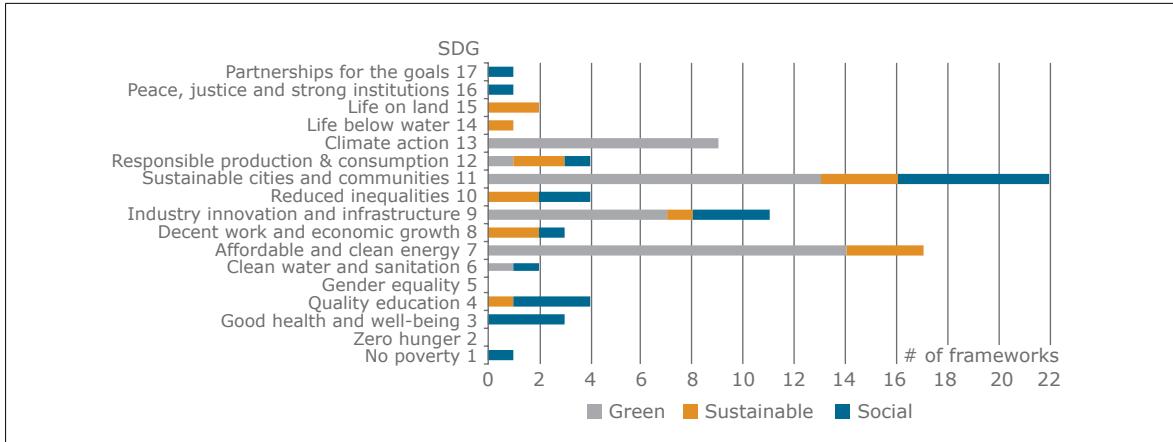


\* Average shares of the sustainable portfolio assets in covered bond cover pools by end June 2021, The number of programmes per country are in brackets. Excluding the use of proceeds distribution of Kookmin Bank and KEB Hana Bank as they had not yet been published at the time of writing.

Source: Issuer reports, ING

Sustainable covered bonds also generally aim to contribute to the achievement of the sustainable development goals (SDG) drafted by the United Nations in 2015. Bonds with a green use of proceeds have a narrower range of SDGs they support than bonds promoting social purposes. Frameworks that solely pursue social objectives appear to contribute to an even wider range of sustainable development goals than frameworks that allow for proceed allocations to both green and social projects. Sustainable cities and communities (SDG 11) is the best sponsored sustainable development goal.

> FIGURE 9: SUSTAINABLE DEVELOPMENT GOALS CONTRIBUTED TO BY SUSTAINABLE COVERED BONDS



Source: Issuer reports, SPOs, ING

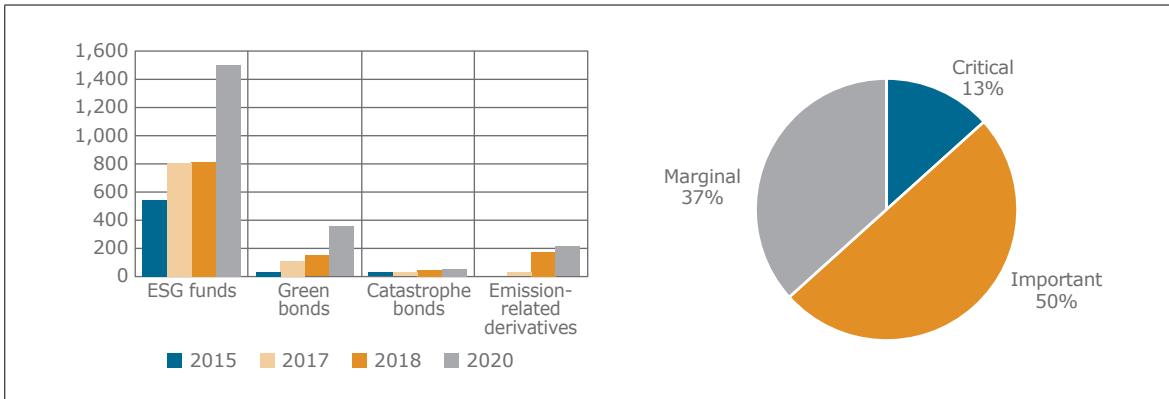
Covered bonds with an environmentally sustainable use of proceeds also often strive to contribute to at least one of the six environmental objectives set by the EU Taxonomy regulation, with the climate change mitigation objective so far being the most important one (see Chapter 1.6 for further details).

#### **Growing sustainable investor base**

Progress has been made in stepping up sustainable finance. Since 2015, the assets under management of environmental, social and governance (ESG) funds have almost tripled, the volume of outstanding green bonds has risen tenfold, and the amount of catastrophe bonds has almost doubled (see chart below left). ESG funds appear more stable, with investors less likely to withdraw funds following negative performance than investors in other types of funds.

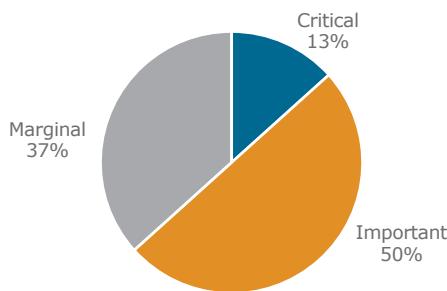
The momentum of increased dedicated support from institutional investors to support green/sustainable projects and reduce emissions and protect against climate change has been confirmed as the number of ESG accounts keeps increasing. Given growing interest – both from the EU, regulators, supervisors and investors in green/sustainable bonds – we decided to ask investors how they were positioned with respect to ESG topics. The results of the complete investor survey can be found in Chapter 1.8 of this Fact Book.

> FIGURE 10: OUTSTANDING AMOUNTS OF DIFFERENT GREEN INSTRUMENTS (IN EURBn)



Source: ECB

> FIGURE 11: WHEN MANAGING YOUR COVERED BOND PORTFOLIO, HOW IMPORTANT ARE ESG FACTORS?



Source: ECBC Factbook survey, Helaba, Société Générale

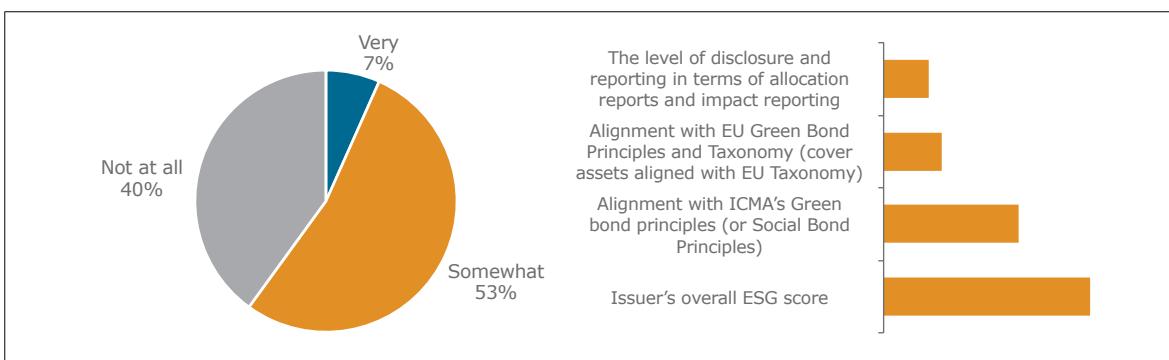
ESG factors are coming to the forefront and almost all investors we surveyed invest in green, social and/or sustainable bonds and covered bonds. When managing the covered bond portfolio, 50% mentioned ESG factors were important, and a further 13% said they were critical investment drivers for their funds.

53% of the investors surveyed stated they treat ESG risks as part of the same assessment (i.e. incorporated in the traditional credit analysis), and close to 60% say that although they do look at second party opinions on ESG/sustainability, they evaluate ESG risks based on in-house developed analytical tools.

Green bond indices make it easier for investors to track the performance of green bonds and compare it with other investments. Although 60% of the respondents indicated green bond indices are important to them (with 7% citing them as very important), 40% stated they were not. This could be because the investment in green covered bonds is part of an aggregated fund, and not necessarily a pure ESG fund.

When asked about the main ESG investment drivers, most investors surveyed cited the issuer's overall ESG score as the main factor, followed by alignment with ICMA's Green Bond Principles. Alignment with the EU Green Bond Principles and Taxonomy was not that highly ranked, although we expect this factor to become more important going forward.

> FIGURE 12: HOW IMPORTANT ARE GREEN BOND INDICES?



Source: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 13: WHEN LOOKING AT POSSIBLE ESG INVESTMENTS, WHAT IS MOST IMPORTANT TO YOU? (RANKED IN ORDER OF PREFERENCE)

## **Green bond indices**

The impressive growth of the green bond primary market over nearly a decade has attracted investors that made its secondary market increasingly active. The four major green bond indices were all created in 2014 namely, S&P Green Bond Index, Bloomberg Barclays MSCI Green Bond Index, BofA Global Green Bond Index and Solactive Green Bond Index.

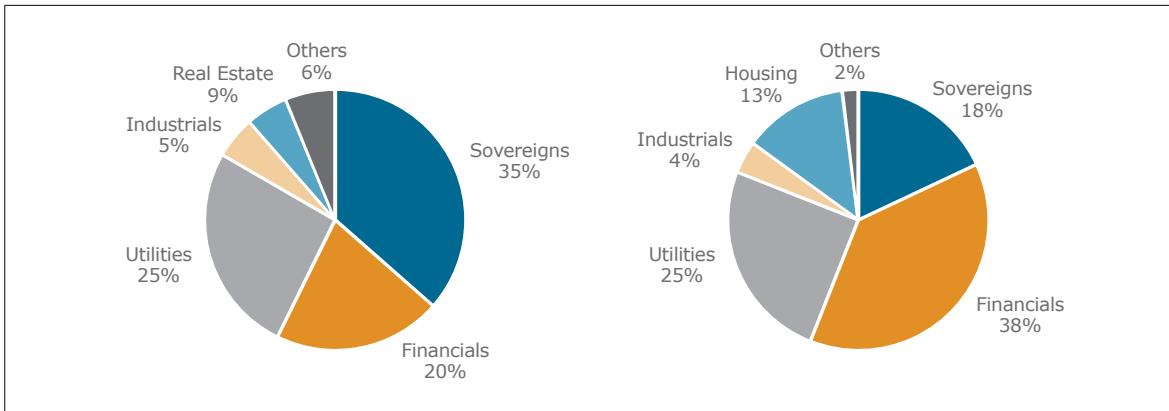
> FIGURE 14: MAJOR GREEN BOND INDICES

	<b>S&amp;P</b>	<b>MSCI Euro</b>	<b>Merrill Lynch</b>	<b>Solactive</b>
<b>Name</b>	S&P Green Bond Index	Bloomberg Barclays MSCI Green Bond Index	BofA Global Green Bond Index	Solactive Green Bond Index
<b>Bloomberg Ticker</b>	SPUSGRN	GBGLTREU	GREN	SOLGREEN
<b>Sectors</b>	Corporate and sovereigns	Treasury, corporate, government-related, and securitized bonds are included. This includes taxable municipals.	Corporate and government-related; securitized and collateralized debts are not included.	
<b>Number of members</b>	-	366	794	1031
<b>Launch date</b>	Jul-14	Nov-14	Oct-14	Mar-14
<b>Average credit ratings</b>	investment-grade bonds using the middle rating of Moody's, S&P, and Fitch	investment-grade bonds using the middle rating of Moody's, S&P, and Fitch	investment-grade bonds using the middle rating of Moody's, S&P, and Fitch	investment-grade bonds using the middle rating of Moody's, S&P, and Fitch
<b>Currency</b>	Multi-currency	EUR-only Green Bonds	Multi-currency	Multi-currency
<b>Regions</b>	All regions	All regions	All regions	All regions
<b>Coupon type</b>	Fixed, floaters, zero-coupons, fixed to floaters, step-ups with fixed schedule.	fixed-rate securities only	fixed-rate securities and floaters callable with a fixed rate before the call date	
<b>Exclusions</b>	Bills, inflation-linked securities and strips.		Municipal securities, contingent capital securities, inflation linked securities, equity linked securities, legally defaulted securities	
<b>Maturity type</b>		Min 1 year to maturity	Min 18 months to maturity	Min 6 months to maturity
<b>Green criteria</b>		Bond may be removed if Use of Proceeds are not meeting criteria or if there is no reporting to support Use of Proceeds		Green Bond approved by the CBI

Source: SG Cross Asset Research

According to a panel of green bonds experts in the secondary markets, green bond indices from MSCI and Merrill Lynch are the most used by market players.

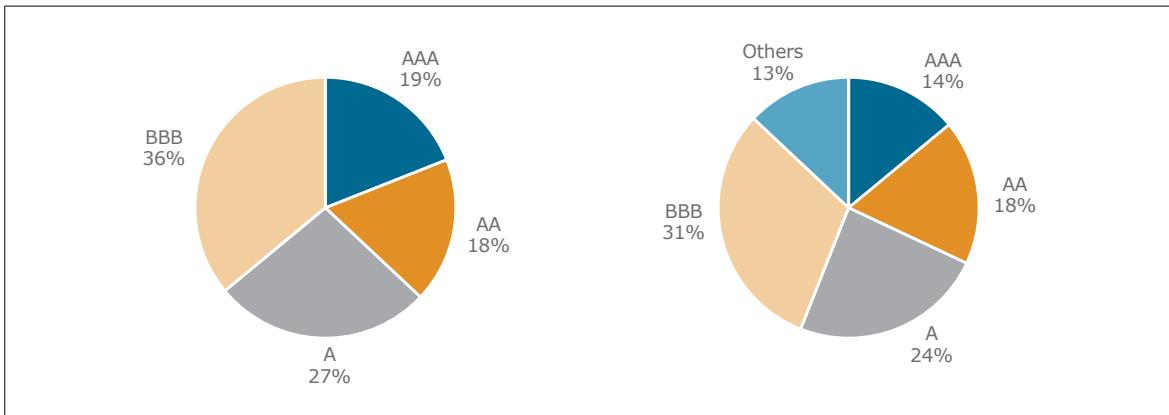
&gt; FIGURE 15: MERRILL LYNCH GREEN BOND INDEX - SECTORS



Source: SG Cross Asset Research

On the ratings front, the main difference is coming from MSCI that includes lower than triple-B rated issuers unlike the Merrill Lynch index. The breakdown between their respective investment-grade ratings categories are pretty close for these two green bond indices.

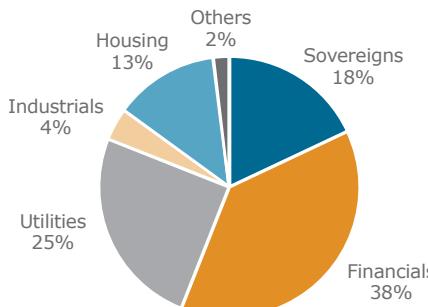
&gt; FIGURE 17: MERRILL LYNCH GREEN BOND INDEX – CREDIT RATINGS



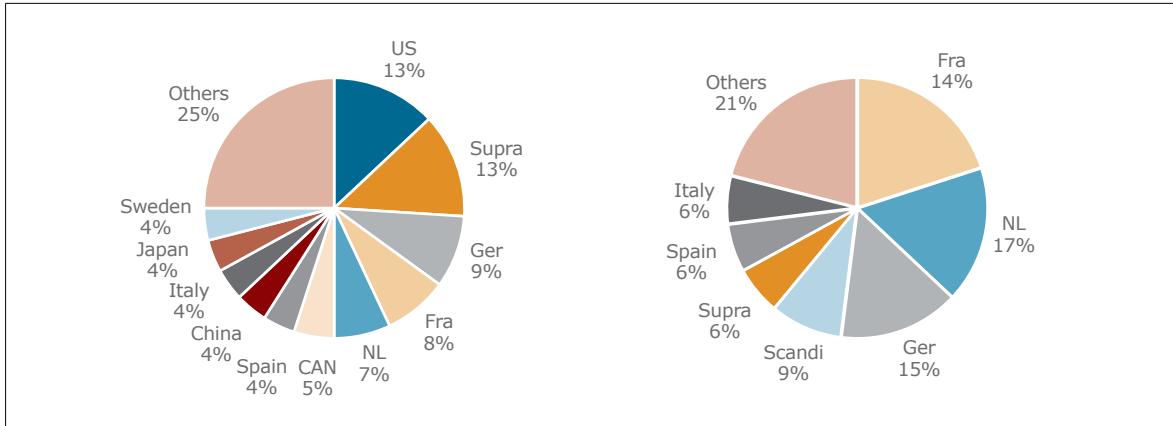
Source: SG Cross Asset Research

Along with the currencies, exposure of these two green bond indices by countries are their main differences. In addition to a full exposure to euro-denominated green bonds, the MSCI green bond index is also exposed mainly to European countries.

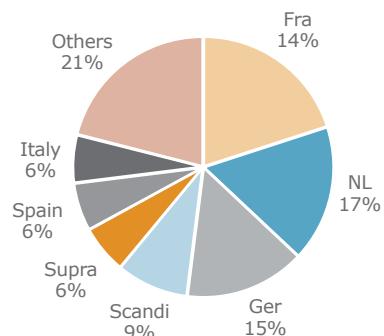
&gt; FIGURE 16: MSCI EU GREEN BOND INDEX - SECTORS



&gt; FIGURE 19: MERRILL LYNCH GREEN BOND INDEX - COUNTRIES



&gt; FIGURE 20: MSCI EU GREEN BOND INDEX - COUNTRIES



Source: SG Cross Asset Research

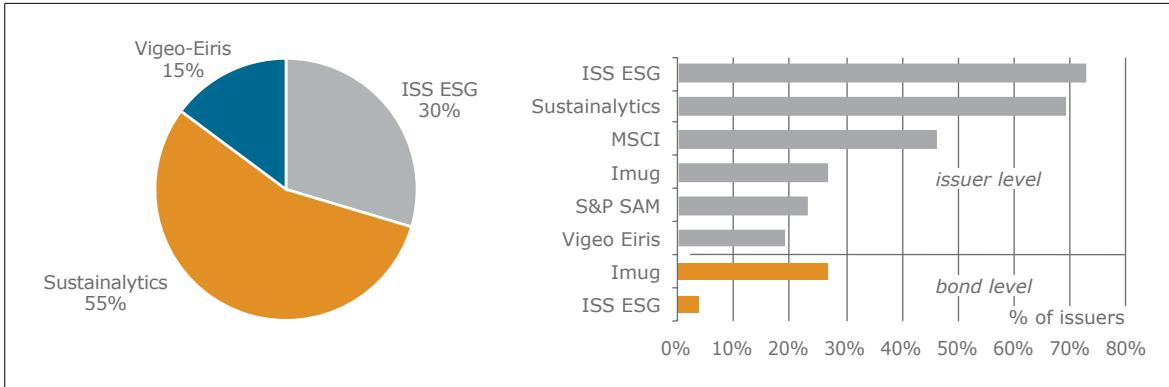
### **The relevance of sustainability ratings**

In the past number of years ESG criteria have been increasingly integrated in issuer and covered bond rating methodologies (see Chapter 4 on rating agencies). In these cases, ESG aspects are considered to the extent that they impact the credit risk of an issuer or bond. However, there are also external reviewers that assign banks an ESG rating or score purely based upon their environmental, social and governance performance. Moreover, issuers can obtain an external assessment of their green, social or sustainability bond process. The ICMA identifies four types of these bond related reviews:

- > Second party opinion (SPO);
- > Verification;
- > Certification;
- > Green, social, sustainability and SLB scoring/rating.

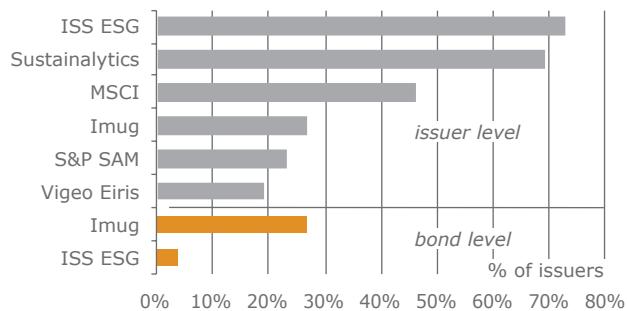
Ahead of issuance, sustainable bond issuers often rely on a **second party opinion** of the applicable sustainable bond framework. This means that an independent institution assesses the quality of the framework and verifies whether the green/social or sustainability bond is aligned with the relevant green/social or sustainability bond principles. Sustainalytics provides the second party opinion for most sustainable covered bond frameworks, together with ISS ESG and Vigeo Eiris. The post-issuance **verification** of the proceed allocations is often performed by an external auditor. In other cases, the appointed SPO provider gives an update of the second party opinion as part of the verification process.

> FIGURE 21: DISTRIBUTION SPO PROVIDERS\*



\* Only for sustainable EUR covered bonds  
Source: Issuer information, SPO providers, ING

> FIGURE 22: THE ESG RATINGS/SCORES OFTEN REFERRED TO\*



\* Only for sustainable EUR covered bonds  
Source: Issuer information, Sustainability rating agencies, ING

Issuers can also obtain a **certification** of their green, social or sustainability bonds or frameworks against a recognized external green, social or sustainability standard or label. As such, several green covered bonds are climate bond certified on behalf of the Climate Bond Initiative (CBI) as an assurance of their consistency with the global warming goals of the Paris agreement. Also, the Covered Bond Label of the EMF/ECBC provides a sustainable covered bond label for covered bonds that are, among others, compliant with the Covered Bond Label Convention, and contain a formal issuer commitment to fully use the covered bond proceeds to (re)finance clearly defined environmental and/or social criteria.

Sustainable covered bonds often do not have distinct **sustainable bond ratings**. Imug is one of the rating agencies that provides such ratings to a number of sustainable covered bonds, all of which have been classified in the 'Very Positive' or 'Positive' categories. ISS ESG also provides sustainability bond ratings, but has done so for only one sustainable covered bond thus far. This sustainability bond was classified as 'Approved' as it exceeded the b- approval threshold. Moody's also gave a green bond assessment to one covered bond, but withdrew all its green bond assessments in October 2020 for business reasons.

Of the institutions assigning **company level sustainability scores or ratings**, ISS ESG and Sustainalytics cover the largest number of sustainable covered bond issuers. Other entities that score some of the existing sustainable covered bond issuers on ESG aspects include MSCI, Imug, S&P SAM and Vigeo Eiris. The investor survey discussed earlier in this chapter identifies the overall ESG score as one of the key ESG investment drivers. Nonetheless, we don't find any supporting evidence of ESG ratings explaining the applicable (modest) differences in greeniums within the sustainable covered bond segment.

#### **ECB recognizes climate risk**

Central banks around the globe are aware that climate change is one of the biggest challenges facing humankind. Climate change has historically not been regarded as central bank business, the concern being a potential loss of market neutrality if preferring a small universe of climate-related investments. However, the ECB has made this issue an important component of its ongoing monetary policy strategy review, which will be finalised in the second half of this year.

The ECB is looking to render its monetary policy toolkit greener. In a speech on 14 June 2021 (see here), ECB Executive Board Member Isabel Schnabel makes the case that policymakers need to explore their roles in tackling climate change and the costs of delaying action. The ECB's ongoing strategy review "provides an opportunity to reflect on the adequacy of concepts such as market neutrality... and transition to a market efficiency

*principle*". So it is not a case of **if** the ECB should incorporate climate change and aspects of environmental protection into its monetary policy decisions but **how** and **to what extent** this should be done.

Central banks can play an important role as catalysts in speeding up the green transition and supporting the development of the green market segment. One example is the recently announced acceptance by the ECB of sustainability-linked bonds as collateral and for outright asset purchases, which may foster issuance of such asset classes. Another possible avenue is to incorporate sustainability criteria into the implementation of the ECB's private sector asset purchases. The ECB is keen to improve the ESG transparency of its counterparties, particularly financial and corporate entities benefiting from its collateral framework and asset purchase programmes. As such, it will likely assess borrowers' sustainability, not just the bonds they issue.

The ECB already takes action on climate change in various areas of competence:

- > **Economic analysis:** Climate change is taken into account in the ECB's macroeconomic models, forecasting methods and risk assessments.
- > **Banking supervision:** Supervisors engage with banks to raise awareness of the risks of climate change and ensure that banks are managing these risks properly. In November 2020, the ECB published a final guide on climate-related and environmental risks for banks. The ECB will follow-up with banks on two levels:
  - > **2021:** request that banks conduct a climate risk self-assessment in light of the supervisory expectations, and to draw up climate action plans;
  - > **2022:** conduct a full supervisory review of banks' practices and take concrete follow-up measures where needed.
- > **Monetary policy and investment portfolios:** As part of its asset purchase programmes (APP), the ECB has invested in green bonds under the CSPP and PSPP. As outlined here, green bond purchases under the CSPP are broadly in line with the growing share of green bonds in the eligible universe. The CSPP-eligible green corporate universe stands at €31bn, of which the Eurosystem holds close to 20%, in line with the Eurosystem holding 20% of the entire CSPP-eligible universe. The Eurosystem has also purchased green bonds issued by sovereigns, agencies and supras since the start of PSPP. The volume of eligible green bonds issued by such public sector entities is small relative to the PSPP-eligible universe, i.e. less than 1%.
- > **The ECB continues to develop its supervisory practice in close coordination with the European Commission (EC) and the European Banking Authority (EBA).** The EBA is exploring how ESG risks can be incorporated into the prudential framework but this is not presently being done. The ECB is a contributor to the work of the Network of Central Banks and Supervisors for Greening the Financial System (NGFS) and the Basel Committee on Banking Supervision. The NGFS has published a set of climate scenarios to provide a common reference for regulators to assess climate risk, and the ECB will likely begin to require greater disclosure of climate risks.

The ECB has already taken various steps to incorporate climate change into its policies (**Figure 23**).

> FIGURE 23: RECENT ECB ANNOUNCEMENTS

Date	Announcement	link to press release
08-07-21	ECB presents action plan to include climate change considerations in its monetary policy strategy.	<a href="https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210708_1~f104919225.en.html">https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210708_1~f104919225.en.html</a>
04-02-21	Eurosystem agrees on common stance for climate change-related sustainable and responsible investment (SRI) principles for euro-denominated policy portfolios. The common stance prepares the ground for measuring greenhouse gas emissions and other sustainable and responsible investment-related metrics of these portfolios. The Eurosystem aims to start making annual climate-related disclosures for these types of portfolios within the next two years, using the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) as the initial framework and reporting, as a minimum, in the category of metrics and targets. (N.B. The euro-denominated non-monetary portfolios contain the assets held by Eurosystem central banks that are not related to monetary policy operations. They include euro-denominated portfolios and staff pension funds).	<a href="https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210204_1~a720bc4f03.en.html">https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210204_1~a720bc4f03.en.html</a>
25-01-21	ECB sets up a climate change center working with existing teams across the bank to bring together work on climate issues in different parts of the bank.	<a href="https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210125_1~3fc4ebb4c6.en.html">https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210125_1~3fc4ebb4c6.en.html</a>
25-01-21	ECB to use own funds' portfolio to invest in BIS's euro-denominated green bond fund. The ECB is also taking steps to increase sustainable and responsible investments in its staff pension fund. In 2020, all conventional equity benchmark indices tracked by the staff pension fund were replaced with low-carbon equivalents, which has significantly reduced the carbon footprint of the equity funds. The ECB is exploring a possible expansion of use of low-carbon benchmark indices to fixed-income asset classes within its pension fund.	<a href="https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210125~715adb4e2b.en.html">https://www.ecb.europa.eu/press/pr/date/2021/html/ecb.pr210125~715adb4e2b.en.html</a>
22-09-20	ECB to accept sustainability-linked bonds as collateral from 1 January 2021. The coupons must be linked to a performance target referring to one or more environmental objectives set out in the EU Taxonomy Regulation and/or to one or more of the environmental objectives set out in the EU Taxonomy Regulation and/or one or more of the UN SDG's relating to climate change or environmental degradation. Non-marketable assets with comparable coupon structures are already eligible. The decision aligns the treatment of marketable and non-marketable collateral assets with such coupon structures.	<a href="https://www.ecb.europa.eu/press/pr/date/2020/html/ecb.pr200922~482e4a5a90.en.html">https://www.ecb.europa.eu/press/pr/date/2020/html/ecb.pr200922~482e4a5a90.en.html</a>

Source: ECB

### **Could more be done?**

At some point, the ECB might want to take a look at its Quantitative Easing (QE) tools more broadly, including its targeted longer-term refinancing operations (TLTROs) and purchase programmes. A recalibration of the TLTRO could be the best way to start to incentivize green issuance, as it is connected to corporate lending. In terms of its asset purchases, a recalibration of its purchases in a "targeted manner", as suggested by Banque de France Governor Villeroy de Galhau in March 2021, might be an option. For a more longer-term strategy, the ECB might look to set an ESG adjustment to valuation haircuts on bonds pledged for repo purposes. But for this to occur, more transparency is needed on all of the ECB's counterparties (financial and corporate) as well as common rules when it comes to reporting and metrics.

### **Conclusion**

This chapter addressed multiple facets of the sustainable covered bond market. Although sustainable covered bonds still remain a niche in the covered bond market, their share has been growing every year. Furthermore, the covered bond market is likely to expand its ESG footprint further in coming years. Sustainable covered bonds finance a wide range of green and social loans, often related to energy-efficient buildings, affordable

housing and access to essential services. Issuers of sustainable covered bonds do on balance benefit from a funding advantage, reflected by the fact that most sustainable covered bonds trade at tighter levels than non-sustainable peers. Furthermore, the investor base for sustainable covered bonds has been growing every year. A majority of investors take into account ESG metrics in their investment decisions, 13% saying these are critical. Meanwhile, investors also use green bond indices, although these are less important than ESG ratings. ESG criteria have been increasingly integrated in issuer and covered bond rating methodologies, while issuers also often obtain an external assessment of their green, social or sustainability bond process from external reviewers. These, in turn, play an important role in investment decisions. Finally, central banks have become more involved in climate-related issues. This reflects that they are well positioned to act as catalysts in speeding up the green transition and supporting the development of the green market segment. ESG factors will be an important component in the ECB's monetary policy strategy review, while the ECB is likely to increasingly take into account ESG factors in its supervision as well as collateral framework.

## **1.6 GREEN COVERED BONDS – AN IMPORTANT CONTRIBUTION TO CLIMATE NEUTRALITY**

By Franz Rudolf, UniCredit, Alexandra Schadow, LBBW and Maureen Schuller, ING

### **Green bond principles and use of proceeds**

A lot has happened since 2008 when the World Bank issued the first green bond. The market for green bonds has grown steadily, reaching a total outstanding volume of EUR 670 bn (worldwide in EUR equivalents), which accounts for the lion's share of the total ESG bond market, at the end of last year, with further growth expected. After a new issue volume of green bonds of EUR 231 bn in 2020, the total volume of new issues was EUR 115 bn in Q1 2021, up 174% compared with Q1 2020 (EUR 42 bn).

Regarding the covered bond market, the share of new issued green covered bonds compared with the overall covered bond market in the EUR benchmark segment grew to EUR 4.75 bn or 5% in 2020. At EUR 5.25 bn or 11.4%, this share more than doubled in H1 2021 alone. At the same time, the total outstanding green covered bond volume was EUR 20.5 bn in the EUR benchmark segment and EUR 31.4 bn across all currencies and issue sizes. After the first green covered bond issue in April 2015, many issuers followed suit. In the first half of the year, 28 banks (thereof 16 in the EUR benchmark segment) were active in the green covered bond segment. They issue mainly in EUR, followed by SEK and DKK.

Basically, green covered bonds raise funds that are used to refinance green properties with two exceptions. One issuer refinances public assets with a green covered bond and another issuer has refinanced renewable energy loans with its sub-benchmark size green covered bond. All other issuers use green covered bonds to finance both residential real estate and commercial real estate that meet certain sustainability criteria. The EU has been working on a Green Bond Standard (GBS) since 2019 and the EU Commission published a proposal on 6 July 2021. In the absence of corresponding legal foundations, corresponding market standards have emerged in recent years in the form of the Green Bond Principles (GBP) of the International Capital Market Association (ICMA), which were published in a revised version on 10 June 2021. The new standard confirms the previous recommendations and further increases the issue of transparency. In particular, it recommends a transparent presentation of the climate transition strategy in the green bond framework as well as the alignment with the GBP. In addition, ICMA recommends that issuers appoint an external review provider to confirm compliance with the GBP pre and post issuances. The principles deliberately do not contain a conclusive classification of project categories in order not to pre-empt corresponding national and international legislative initiatives.

The Green Bond Principles define the following five key environmental areas of action:

- > Climate change mitigation
- > Climate change adaptation
- > Natural resource conservation
- > Biodiversity conservation
- > Pollution prevention and control

Based on these five areas, the guidelines name numerous possible project directions, but do not limit them. With regard to covered bonds, we concentrate on the following:

- > Energy efficiency: new and refurbished buildings, energy storage, district heating, smart grids, appliances and products
- > Pollution prevention and control: reduction of air emissions, greenhouse gas control, soil remediation, waste prevention, waste reduction, waste recycling and energy/emission-efficient waste-to-energy
- > Green buildings: must meet regional, national or internationally recognized standards or certifications

Most issuance programmes apply these voluntary market standards, which focus on transparency, disclosure and reporting. As a basis for a green issuance programme, a corresponding framework should be created that addresses the following four core components:

> FIGURE 1: THE FOUR COMPONENTS OF THE GREEN BOND PRINCIPLES



Source: ICMA, LBBW Research

Additionally, it is recommended that issuers have an independent third party verify the alignment of their framework with the GBP (second party opinion). Furthermore, the ICMA has published a reference framework that helps issuers and investors map the investment targets of the respective green emission programme to the UN Sustainable Development Goals (SDGs). A detailed analysis of the green covered bond programmes of the big issuers with benchmark formats in regard to the SDG targets shows that the following are used most frequently:

> FIGURE 2: THE SUSTAINABLE DEVELOPMENT GOALS MOST FREQUENTLY USED



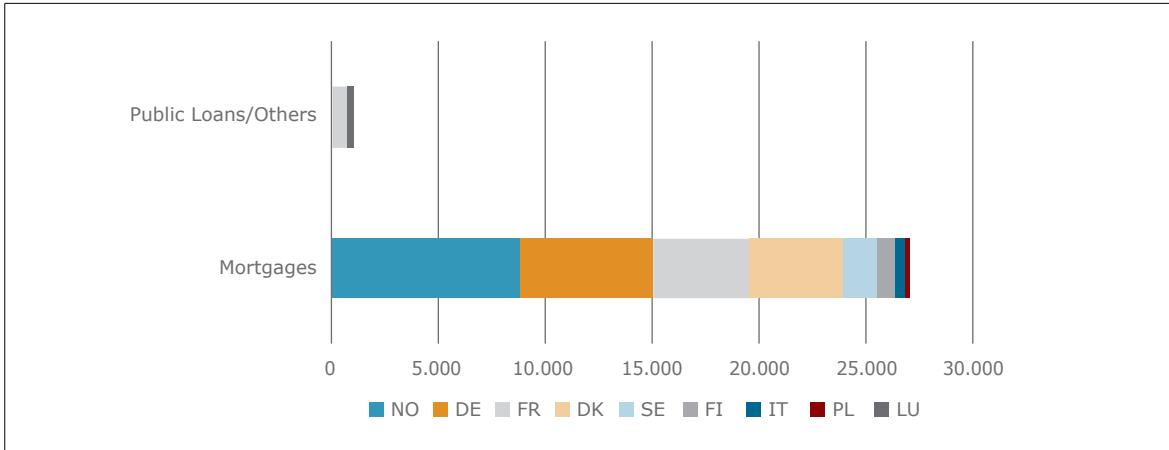
Source: UN SDG

In contrast to the wide range of theoretically possible SDGs, current green covered bond issuers focus primarily on the goal of Sustainable Cities and Communities (SDG 11). But there are some special cases where Clean Water and Sanitation as well as Responsible Consumption and Production are in the centre of the use of proceeds (SDG 6 and 12) for a public sector covered bond. Other covered bonds focus on Industry, Innovation and Infrastructure (SDG 9).

For large banking groups, the Green Bond Framework and the SPO refer to the entire range of green activities and their refinancing. Considerations for the use of proceeds includes all green loans, whether they are cover pool eligible or not. The part that is refinanced via covered bonds is only a subset. The assets must comply with the respective legal requirements, which in the case of green covered bonds concerns real estate financing almost exclusively. In the case of pure-play mortgage banks, the use of proceeds is limited to mortgages from the outset.

The green covered bond market in the benchmark format is shared in Norway, France and Germany. In addition, there is one issuer each from Italy and Finland. There are also green covered bonds outside the euro benchmark segment in Denmark, Sweden, Poland and Luxembourg. Looking at the regional distribution, an initial focus on Europe becomes clear.

> FIGURE 3: GREEN COVERED BONDS BY COUNTRIES IN EUR MN (OUTSTANDING VOLUME)



Source: Bloomberg, LBBW Research

The prerequisites for further growth in the market for green covered bonds are the availability of a corresponding collateral pool as well as the willingness of issuers to use this basic volume of green loans for covered bond issues. However, whether these banks use their green loan portfolios for covered bond issues or prefer green senior issues, for example, may depend on the achievable pricing advantage of an issue with "green" status. Due to the current narrow spread levels on the secondary markets for covered bonds, we see covered refinancing actually at a disadvantage here. Nevertheless, based on the immense volume of mortgages refinanced via covered bonds, we see a high potential for green bonds in the medium to long term. This should also receive strong support from politics, since the European Green Deal at the least is driving the sustainable renewal of real estate portfolios in Europe. However, there is still the next hurdle to overcome: the EU taxonomy. While ICMA deliberately does not make a final classification of project categories, this is done in the taxonomy. Furthermore, the coming EU Green Bond Standard is expected to be directly linked to the requirements of the taxonomy.

#### **The taxonomy regulation in a nutshell**

The EU taxonomy regulation came into force in July 2020 and provides a unified classification system for sustainable activities. At this point, the EU taxonomy identifies six environmental objectives. These will be expanded further by other sustainable objectives, including social, but not before 2022. An economic activity is considered environmentally sustainable and thus taxonomy compliant if it:

- > Contributes substantially to one of the six environmental objectives identified:
  1. Climate change mitigation;
  2. Climate change adaptation;
  3. Sustainable use and protection of water and marine resources;
  4. Transition to a circular economy, waste prevention and recycling;
  5. Pollution prevention and control;
  6. Protection and restoration of biodiversity and ecosystems.
- > Does not significantly harm (DNSH) any of these environmental objectives;
- > Is carried out in compliance with the minimum social safeguards (MSS); and
- > Complies with the technical screening criteria (TSC).

In June 2021, the European Commission adopted the climate delegated act setting the technical screening criteria for the climate mitigation and climate adaptation objectives (1-2) and the conditions for avoiding significant harm to the other environmental objectives (including 3-6). These criteria will become applicable per 1 January 2022. The environmental delegated act for the other four environmental objectives will be published in 2022 (to become applicable per 1 January 2023).

> FIGURE 4: THE IDENTIFIED SECTORS FOR CLIMATE CHANGE MITIGATION AND ADAPTATION

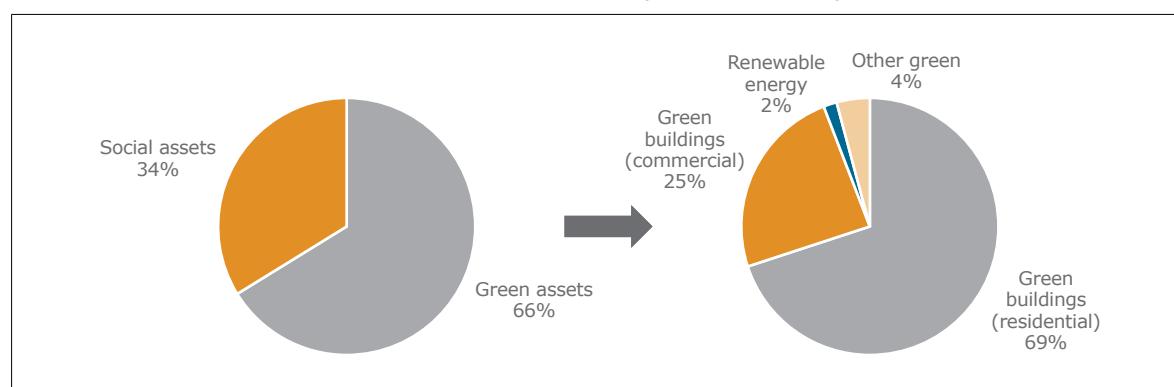
Sectors	Climate change	
	Mitigation	Adaptation
1 Forestry	✓	✓
2 Environmental protection and restoration activities	✓	✓
3 Manufacturing	✓	✓
4 Energy	✓	✓
5 Water supply, sewerage, waste management and remediation	✓	✓
6 Transport	✓	✓
7 Construction and real estate activities	✓	✓
8 Information and communication	✓	✓
9 Professional, scientific and technical activities	✓	✓
10 Financial and insurance activities		✓
11 Education		✓
12 Human health and social work activities		✓
13 Arts, entertainment and recreation		✓

Source: EC, ING

For the climate change mitigation objective nine sectors are identified based on their emissions footprint, while for the climate change adaptation objective, 13 sectors are distinguished (see figure 4). Due to the traditional dominance of mortgage assets in covered bond collateral pools, the technical screening criteria for **construction and real estate activities** are the most relevant for green covered bonds. This is illustrated in figure 6, which confirms that of all the EUR sustainable covered bond green asset allocations, 94% finance energy-efficient building loans.

> FIGURE 5: ASSET ALLOCATIONS BY TYPE (COVERED EUR 29 BN)\*

> FIGURE 6: GREEN ASSET ALLOCATIONS BY TYPE (COVERED EUR 19 BN)\*



\*Covered EUR supply (size ≥€ 250 m)  
Source: Issuer allocation reports, ING

The delegated act divides the construction and real estate sector in seven sub-sectors, of which three are **transitional activities**. These activities are generally the most relevant for the selection of green real estate assets:

- > The construction of new buildings;
- > Renovation of existing buildings;
- > The acquisition and ownership of buildings.

The remaining four activities are all **enabling activities**, and include the installation, maintenance and repair of:

- > Energy-efficiency equipment;
- > Charging stations for electric vehicles in buildings (and parking spaces attached to buildings);
- > Instruments/devices for measuring, regulation and controlling energy performance of buildings;
- > Renewable energy technologies.

Figure 7 gives an overview of the technical screening criteria for the three transitional real estate activities. To be taxonomy aligned, buildings built as of 2021 (new and existing) should have a primary energy demand (PED) that is 10% lower than the country specific thresholds set for 'nearly zero-energy buildings' (NZEB) applicable for new buildings in the EU per 2021. Buildings built before 31 December 2020 should have an energy performance certificate (EPC) class A. These buildings are also taxonomy compliant if they belong to the top 15% most energy efficient buildings of the regional and national building stock built before 2021.

> FIGURE 7: TECHNICAL SCREENING CRITERIA FOR TRANSITIONAL CONSTRUCTION AND REAL ESTATE ACTIVITIES

<b>Construction of new buildings</b>	<p><b>The primary energy demand (PED)</b>, defining the energy performance of the building resulting from the new construction is <b>at least 10% lower than</b> the threshold set for the <b>nearly zero-energy building (NZEB) requirements</b>. The energy performance is certified using an as built energy performance certificate (EPC).</p> <p><b>Buildings &gt; 5000 m<sup>2</sup>:</b></p> <ul style="list-style-type: none"> <li>* Should upon completion undergo testing for air-tightness and thermal integrity. Performance deviations or defects in the building envelope should be disclosed. Robust and traceable quality control processes during the construction process are an acceptable alternative to thermal integrity testing.</li> <li>* The life cycle global warming potential (GWP) of the building has been calculated for each stage in the life cycle and is disclosed on demand.</li> </ul>
<b>Renovation of existing buildings</b>	<p>The building renovation complies with the applicable requirements for major renovations stipulated by the EPBD. The energy performance of the building or the renovated part that is upgraded must meet the EPBD's cost-optimal minimum energy requirements.</p> <p>Alternatively, the renovation leads to <b>a reduction of PED of at least 30%</b>. The initial energy performance and improvement are based on (a) a detailed building survey, (b) an energy audit conducted by an accredited independent expert or (c) any other transparent and proportionate method and validated through an energy performance certificate (EPC). The 30% improvement results from an actual reduction in PED (excl. renewable energy sources) and can be achieved through a succession of measures within a maximum of three years.</p>
<b>Acquisition and ownership</b>	<p><b>Buildings acquired ≤ 31 December 2020:</b></p> <p>Building has <b>at least an Energy Performance Certificate (EPC) class A</b>. As an <b>alternative</b>, the building is <b>within the top 15%</b> of the national or regional building stock expressed as operational PED and demonstrated by adequate evidence, which at least compares its performance vs the national or regional stock built before 31 December 2020 and at least distinguishes between residential and non-residential buildings.</p> <p><b>Buildings acquired &gt; 31 December 20:</b></p> <p>Criteria for construction of new buildings</p>

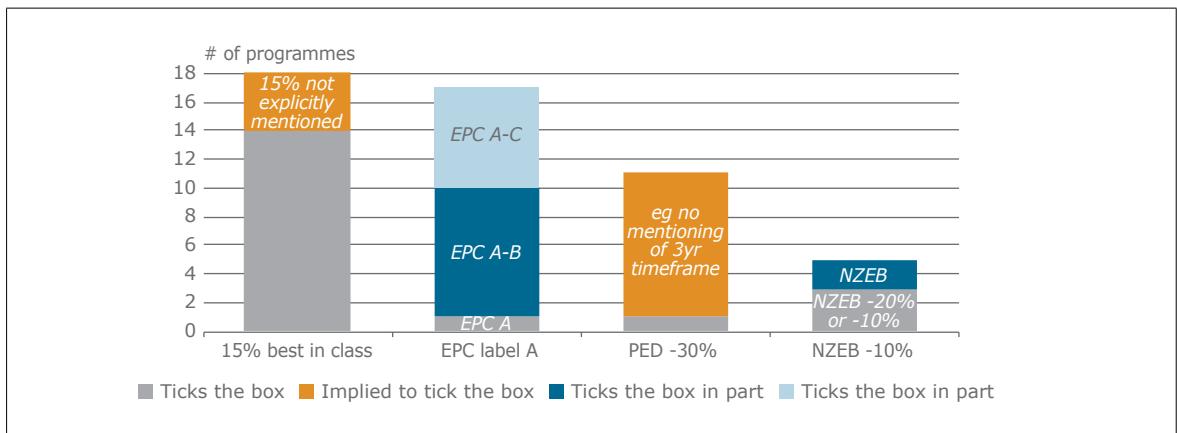
Source: European Commission, ING

The 15% best in class criterion for buildings built before 2021 is probably most crucial for the future abilities of banks to issue green covered bonds that solely (re)finance taxonomy aligned real estate loans. After all, the portion of buildings labelled with an A class EPC certificate is typically small in most jurisdictions. Besides, these labels often lack comparability. As a result, a building can be labelled A in one country, while in another country with stricter EPC criteria a similar type of building could be labelled B or C. In some countries EPC labels may not even comprise a rating classification.

Figure 8 shows that most sustainability bond frameworks of European covered bond issuers already use the top 15% selection criterion for green building assets. There are only a few that do not explicitly confirm that the selection norms applied have a 15% best in class outcome for the building loans collected. Instead, by the end of June 2021 only one single framework applied an EPC class A criterion. Thanks to the 15% best in class alternative frameworks also don't have to limit the use of EPC labels to class A, as long as proper evidence is provided that the selected property loans indeed represent the 15% most energy efficient building assets.

Not all issuers include renovation loans in their green asset portfolios. Those that do, refer to a 30% improvement in energy performance, but generally without additional requirements, such as the TSC's three-year maximum term for a series of measures to achieve the upgrade. Thus far, very few frameworks have separate criteria for buildings built as of 2021. Where they do, some even apply a stricter NZEB -20% criterion in line with the earlier draft TSC proposals. That said, now the first technical screening criteria have been defined we believe most frameworks will be updated to ensure an optimal taxonomy compliance of green asset portfolios.

> FIGURE 8: EUROPEAN GREEN COVERED FRAMEWORKS MEET THE TSC PRIMARILY ON THE TOP 15%\*



\* This chart only takes the 18 frameworks of green/sustainability EUR covered bonds as a reference that allocate proceeds to green buildings.  
Source: Issuer green covered bond frameworks (updates available per 30 June 2021), ING

However, meeting the technical screening criteria is not the only challenge issuers face when ensuring taxonomy alignment of their green bonds. Even if an economic activity contributes significantly to the climate change mitigation objective, it still has to avoid doing significant harm to any of the other environmental objectives. To name an example, the generic DNSH criteria for climate change adaptation therefore require a climate risk and vulnerability assessment (CRVA), to identify climate risks such as temperature change or floods, and an adaptation solutions plan to reduce these risks.

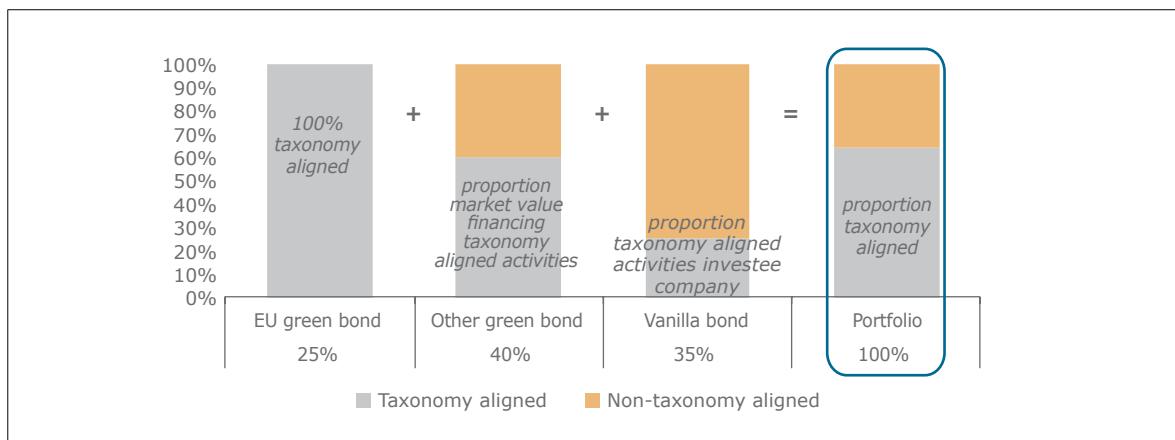
### **The importance of taxonomy compliance for green covered bonds**

Banks have good reasons to strive for the best possible taxonomy alignment of their green assets. These stretch well beyond the purpose of green bond issuance alone. The taxonomy regulation will be an important pillar to the future EU green bond standard, which according to the draft proposals will require full taxonomy

alignment of the use of proceeds. However, it also forms an integral part of EU regulation promoting sustainable reporting, such as the sustainable finance disclosure regulation (SFDR) and non-financial reporting directive (NFRD). These disclosure regulations have the consequential side-effect that companies (including banks) will face increased investor scrutiny on the sustainability of their activities, among others from portfolio managers that have to show to what extent their investment funds and portfolios consider sustainability aspects. The taxonomy compliance of the assets financed via green (covered) bonds is just the tip of the iceberg.

For taxonomy disclosure purposes, the SFDR, NFRD and the future green bond standard will in a way work as communicating vessels. This point is illustrated by the indicative investment portfolio plotted in figure 9. The graphic takes the 15 March 2021 consultation proposals of the European supervisory authorities (ESAs) on taxonomy-related disclosures under the SFDR as a reference. These taxonomy-related disclosures should theoretically apply from 1 January 2022 for the climate change mitigation and climate change adaptation objectives, and a year later for the remaining environmental objectives. However, at the time of writing the definitive regulatory technicalities had yet to be adopted by the European Commission based upon the final inputs from the ESAs.

> FIGURE 9: TAXONOMY RELATED DISCLOSURES WILL IMPACT GREEN AND VANILLA BONDS DIFFERENTLY



Source: ESAs consultation taxonomy related disclosures, ING

The key performance indicator (KPI) measuring the taxonomy compliance of financial products, basically calculates the amount of taxonomy-aligned investments as the weighted average of:

- > **Green bonds** issued under the future **EU green bond standard** (GBS) = 100% market value;
- > **Other green bonds** = proportion of the market value corresponding to the proportion of the proceeds used to finance taxonomy aligned activities;
- > **Debt instruments** and equities in **investee companies** = market value of the proportion of debt instruments/equities reflecting the proportion of activities of the investee companies that is associated with environmentally sustainable activities.

For financial companies such as banks, this proportion comes down to the share of environmentally sustainable activities as disclosed under the NFRD (ie, "green asset ratio").

This illustrates that the taxonomy-related disclosure requirements may impact all bonds issued, whether marketed with a sustainable use of proceeds or not. The taxonomy compliance of vanilla bonds will also be considered via the share of activities of the issuer that are deemed to be environmentally sustainable. Hence, issuers reporting a stronger taxonomy alignment under the NFRD could see this translate into more favour-

able trading levels, also for their vanilla bonds. The intentions of the ECB to introduce climate change related disclosure requirements for the collateral and asset purchase treatment of private sector assets, may only strengthen this effect. These requirements will take into account the EU regulatory disclosure developments but are not expected to become applicable before 2024.

Meanwhile, fixed income investors will likely favour those instruments that meet all the criteria of the future EU green bond standard, as these bonds are considered to be 100% taxonomy aligned. However, this does not mean that green bonds that are not fully taxonomy compliant will lose investor interest. They will still count towards the taxonomy KPIs for the part that they do finance taxonomy compliant activities. The EU green bond standard may nonetheless become the most commonly used measure for issuers to show the taxonomy alignment of their green bonds. Especially as investors may not always have the resources or the willingness to perform a full taxonomy compliance assessment themselves for every green bond. Against this backdrop, industry initiatives, such as the EMF-ECBC's Energy Efficient Mortgages Initiative (EEMI) and the VDP's minimum standards for Green Pfandbriefe, are an important support to both issuers and investors in their green bond structuring and investment processes.

### **Green covered bond market**

Although 2021 is not a "normal" year, as issuance is heavily influenced by COVID-19 and the counter measures implemented by the ECB which weigh on covered bond supply, we deem the positive trend to make increased use of green covered bonds to persist, especially when keeping in mind the newly introduced EU Taxonomy and the EU's climate targets of reducing GHG by 55% until 2030. The buildings sector is the largest energy consuming sector and responsible for about 40% of energy consumption and 36% of carbon emission in the EU – and covered bonds are the most widespread tool to refinance mortgages.

Aside from the sustainable perspective, issuers as well as investors are looking at pricing and performance differences of green and non-green covered bonds. Green covered bonds and non-green covered bonds have the same risk profiles from a credit risk perspective. For this reason, they should not display significant pricing differences, as is currently the case. Potential (minimal) differences are, in our view, likely attributable to liquidity, the amount of time that has elapsed since issuance, amounts outstanding, etc. However, there does seem to be one difference: the investor bases of green covered bonds are broader than those of non-green covered bonds. In addition to attracting the attention of traditional covered bond investors, green covered bonds also attract the interest of dedicated ESG investors. This broader investor base could facilitate the placement of new deals in times of crisis, but during the COVID-19 sell-off in early 2020, no spread-supportive impact could be observed.

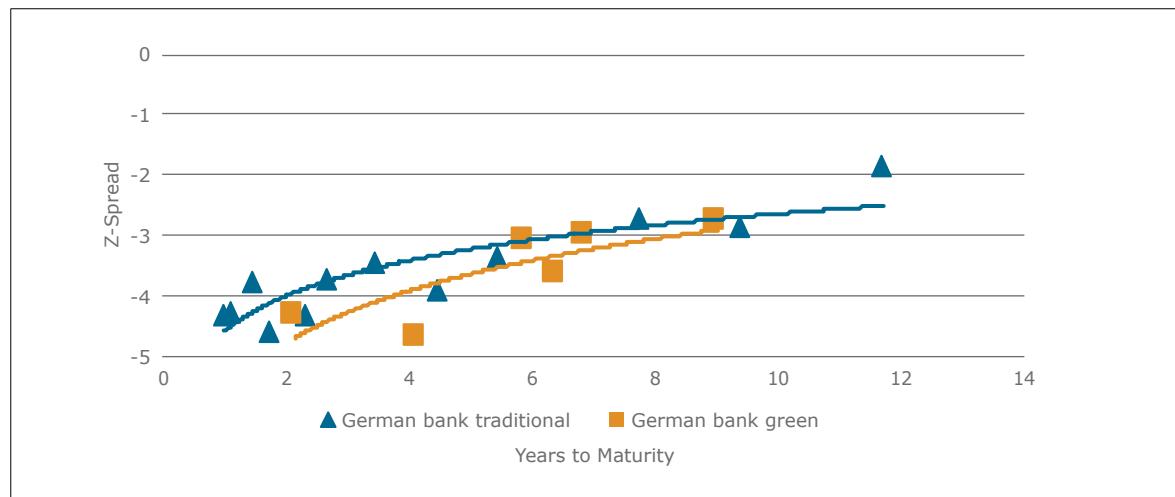
We start by considering the issuers' viewpoint and examine whether green covered bonds gain from beneficial pricing. Beneficial pricing would be justified given the costs associated with setting up a green bond framework, the additional documentation and reporting involved as well as the external assessment required (in the form of a second-party opinion).

Available deal data on new issues verify the common assumption that green deals attract a broader investor base. Data compiled by Bond Radar show that, in 2020, sustainability covered bonds attracted, on average, 103 different accounts, compared to 72 accounts for traditional covered bonds. For 2018 and 2019, with 58 to 60 and 85 to 87 accounts, respectively, both types attracted almost the same number of accounts. This leaves us with two possible explanations: 1. The ESG investor base has grown, and since 2020, ESG deals have attracted more investors. 2. Alternatively, in times of severe stress (like the COVID-19 pandemic), the ESG investor base is still active and can be relied upon to help issuers place deals. Either way, we feel comfortable concluding that green covered bonds attract a broader investor base. For new deals, this should pave the way for advantageous new issue premiums (NIP) and higher cover ratios. For 2020, green covered bonds enjoyed a volume-weighted average NIP of 0.8 bp (2019: 0.8 bp) versus 3 bp (2019: 2.6 bp) for traditional covered bonds and volume-weighted average cover ratios of 3.2 times (2019: 2.8 times) versus 2.3 times (2019: 2.3

times) for traditional covered bonds. Hence, demand in terms of volume and number of accounts for green covered bonds is higher and NIPs are lower, which leads to a funding advantage for issuers.

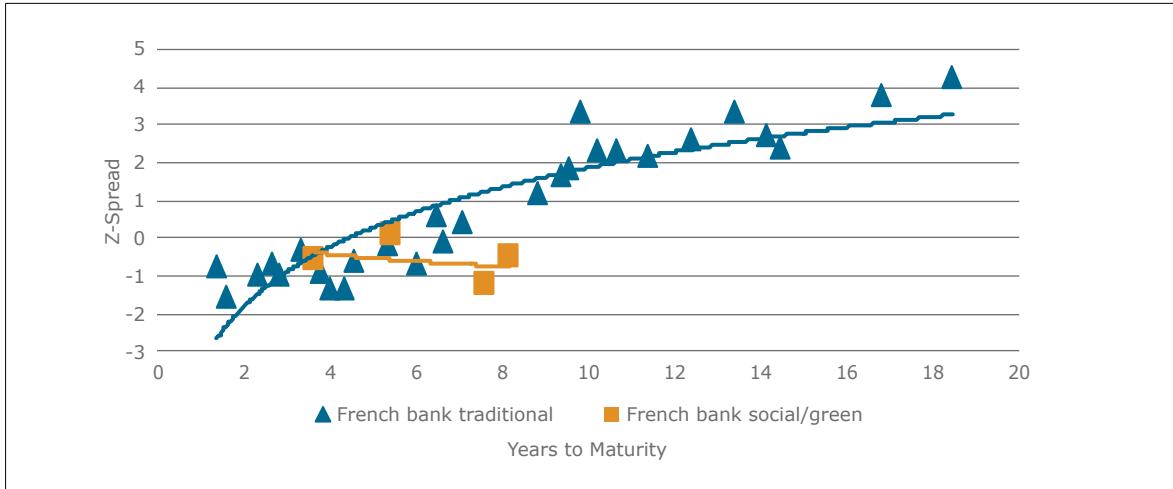
Studying current market snapshots to see how pricing occurs in secondary markets does not offer a clear picture. The following two charts show examples of Z-spread levels of the two most active sustainability covered bond issuers, which also have solid secondary curves with traditional covered bonds. Taking a German green covered bond issuer as an example, both the traditional and the green curve are virtually congruent, and there is nearly no greenium. In the chart on the right, the green and social covered bonds from a French issuer have been consolidated in one curve that is compared with its traditional covered bond curve. While the two shorter social covered bonds are trading in line with traditional covered bonds, the social and green covered bonds with maturity in 2029 seem to be trading at a greenium of around 2 bp. But why are only the 2029 social and green covered bonds trading at a premium? The investor base for the two shorter social bonds should be congruent, in our view. Therefore, we cannot preclude that the premium for the two specific bonds might have arisen as a result of other technical factors. Lastly, we cannot determine a market-wide greenium for green covered bonds, but in the case of the French example, the green covered bond is trading at around 2 bp premium to comparable bonds from the same issuer. Looking forward, we consider a greenium of 1-2 bp as possible.

> FIGURE 10: GERMAN EXAMPLE



Source: Bloomberg, UniCredit Research

> FIGURE 11: FRENCH EXAMPLE

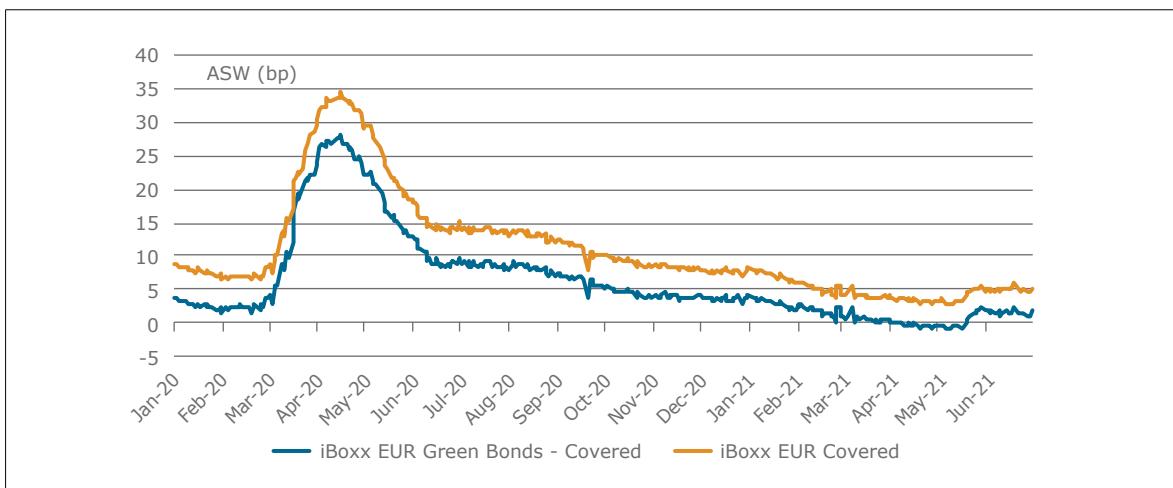


Source: Bloomberg, UniCredit Research

### Performance

From an investor's point of view, investing in green covered bonds yields not only financial but also environmental returns – but does responsible investing have an influence on performance? As can be seen in figure 12, both the iBoxx EUR Covered index and iBoxx EUR Green Covered index are very closely correlated – since 2020, the green covered bond index has been trading within a range of -7 bp and -3 bp to the overall iBoxx EUR Covered index, while the average duration was more than one year longer, but a completely different issuer and country composition. At what is considered the peak of the crisis (in spread terms), the average spread of the iBoxx EUR Green Covered index was 7 bp below that of the iBoxx EUR Covered index. In the subsequent recovery phase, the latter seems to have slightly outperformed the iBoxx EUR Green Covered index and was trading with just a 3.5 bp of pickup at end-June. In our view, these small differences in indices are attributable to index composition, liquidity, time that has elapsed since issuance, outstanding amount, duration, etc.

> FIGURE 12: COMPARISON OF iBOXX INDICES



Source: Bloomberg, UniCredit Research

## **Conclusion**

By the end of June 2021 the market for green EUR covered bonds had grown to EUR 21 bn, making up 64% of the total amount in sustainable covered bonds outstanding. While green issuance volumes in covered bonds remain relatively modest compared to the senior unsecured market, the substantial volumes of mortgages refinanced via covered bonds do offer good potential for the green covered bond market to further expand in the medium to long term. This growth is supported by political and regulatory developments in Europe, aiming to direct investments towards environmentally sustainable assets. The taxonomy regulation, and related voluntary EU green bond standard, in particular, will form a key reference point to investors judging the contribution of green covered bonds towards environmentally sustainable objectives. The demand from investors for assets meeting the criteria from the taxonomy regulation, will likely support a wider spread differential between green and vanilla covered bonds than witnessed today, particularly for green covered bonds able to demonstrate full taxonomy alignment.

## **1.7 SOCIAL/SUSTAINABILITY COVERED BONDS – GAINING MOMENTUM**

By Uwe Jurkschat, DKB, Rodger Rinke, LBBW, Franz Rudolf, Unicredit

Social bonds attracted more attention during 2020 due to the influence of the COVID-19 pandemic, the growing focus on social related topics. This was reflected in an increasing number of issues of covered bonds and other bond formats. In 2020, the issue volume of social bonds increased almost tenfold compared with the previous year, reaching EUR 128 bn. Further growth of the social bond market is expected, as the issue volume has already reached EUR 117 bn in the first half of 2021.

Regarding the covered bond market, the share of new issued social and sustainability covered bonds compared with the overall covered bond market in the EUR benchmark segment grew to 3% in 2020. The total issue volume of social/sustainability covered bonds reached EUR 3.0 billion in 2020, a volume that was nearly met in H1/2021 with EUR 2.75 bn. The share of social and sustainability covered bonds in this year's primary market activity doubled to reach 6% YTD. In addition, two newcomers KEB Hana Bank and Hypo Tirol Bank made their first appearance on social covered bond markets in 2021. The market for social covered bonds has had an impressive growth story since Muenchener Hypothekenbank eG issued the first ESG covered bond with a social focus back in 2014. So far, social and sustainability covered bonds have been issued exclusively in EUR.

As of the end of June 2021, ten different issuers with 19 transactions (thereof 16 benchmark deals) have been active in the social and sustainability covered bond market, while the vast majority of the transactions took place as social bonds. The total volume of currently outstanding social/sustainability covered bonds currently amounts to EUR 11.16 bn, which corresponds to less than 1% of the global covered bond market.

### **PURPOSE AND USAGE OF SOCIAL COVERED BONDS**

In general, social covered bonds fund projects that help to deal with a specific social issue and/or seek to achieve positive social outcomes for specific target groups. Sustainability Bonds provide the possibility to finance both green and social projects under the same format.

In the absence of corresponding legal foundations, corresponding market standards have emerged in recent years in the form of the Social Bond Principles (SBP) and the Sustainability Bond Guidelines of the International Capital Market Association (ICMA). Both principles deliberately do not contain a conclusive classification of project categories in order not to pre-empt corresponding national and international legislative initiatives.

Based on the Social Bond Principles, the following six areas of application are possible, but not limited to:

- > Affordable basic infrastructure (e.g. clean drinking water, sewers, sanitation, transportation, energy)
- > Access to essential services (e.g. health, education and vocational training, healthcare, financing and financial services)
- > Affordable housing
- > Creating employment and preventing unemployment stemming from socioeconomic crises, including through the potential effect of SME financing and microfinance
- > Food security and sustainable food systems
- > Socio-economic advancement and empowerment

In general, social projects according to the ICMA standards should be aimed at specially – but not exclusively – defined, specific population groups, which is an important element of the Social Bond Principles that might include people living below the poverty line, the unemployed, or vulnerable groups. The definition of these target population groups depends on local circumstances and may also include addressing the general public.

For sustainability bonds, which intentionally mix green and social projects, the possible use of proceeds of green bonds are also included (refer to article 1.6) accordingly. In the covered bond space, this includes energy efficient buildings, the reduction of waste or emissions, or other issues. Many projects in areas like social housing or education serve social and environmental targets at the same time. For issuers, achieving sufficient lending volumes to issue sustainability bonds can be facilitated by pooling both green and social project categories to generate sufficient assets for regular issuance.

Most issuance programs apply ICMA's voluntary market standards, which focus on transparency, disclosure and reporting. As a basis for a social or sustainability bond program, a corresponding framework should be created that addresses the following four core components:

> FIGURE 1

The four components of the SBP			
Use of Proceeds	Process for Project Evaluation & Selection	Management of Proceeds	Reporting
Illustration of how the issuer uses the proceeds from the issuance of the Social/Sustainability covered bonds.	Issuer shall outline how it identifies and selects suitable projects.	Proceeds from Social/Sustainability covered bonds should be treated separately from others. Internal control systems should ensure that revenues are allocated only to appropriate projects.	The issuer should provide regular information about its projects and the proceeds, so that investors can constantly track this.

Source: ICMA, LBBW Research

To facilitate the issuance of social bonds, ICMA recently published a "Pre-issuance Checklist for Social Bonds/Social Bond Programmes", which aims to give guidance on the necessary steps for establishing a Social Bond Framework. In addition, ICMA provides a standardized impact reporting for social bonds.

Additionally, the ICMA standards recommend that issuers have an independent third party to verify the alignment of their framework with the SBP (second party opinion). Furthermore, the ICMA has published a reference framework that helps issuers and investors to map the investment targets of the respective sustainable emission program to the UN Sustainable Development Goals (SDGs). A closer look at social bond frameworks reveals that a broad base of SDGs is addressed by social/sustainability covered bonds. 13 of the 17 SDGs are addressed in the frameworks by current social covered bond issuers. Most frequently represented are the following:

SDG 11: Sustainable Cities and Communities

SDG 10: Reduced Inequalities

SDG 3: Good Health and Well-Being

SDG 4: Quality Education

SDG 8: Decent Work and Economic Growth

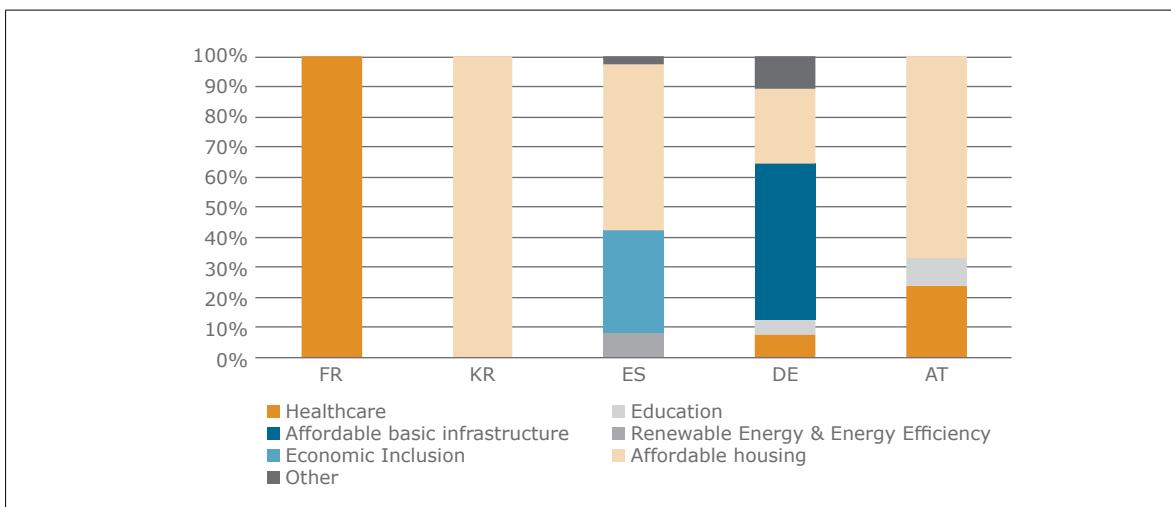
> FIGURE 2



Source: UN SDG

In contrast to the wide range of theoretically possible use of proceeds, current social and sustainability covered bond issuers focus primarily on area of affordable housing (SDGs 10 and 11). But there are special cases like CAFFIL, where healthcare is in the center of the use of proceeds (SDG 3). On the other hand, access to essential services in the areas of education and healthcare plays a minor role for Austrian and German social covered bond issuers. DKB also represents a special example, where basic infrastructure (Clean Water & Sanitation; SDG 6) dominates. In addition to social housing, issuers from Spain finance activities in the areas of green energy (sustainability covered bonds) and have a larger focus on economic inclusion.

> FIGURE 3: USE OF PROCEEDS OF SOCIAL AND SUSTAINABILITY BONDS BY ISSUERS' COUNTRY OF DOMICILE

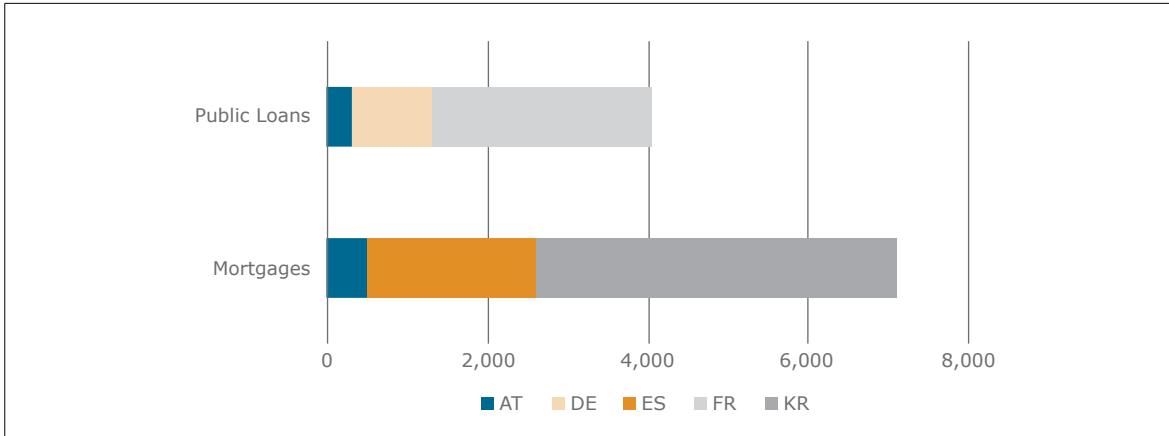


Source: Issuers, LBBW Research; project categories according to available impact reports and outstanding bond volume

It has to be mentioned, that for banking groups, the Social/Sustainability Bond Framework and the second party opinion refer to the entire social/sustainable activities of the bank and their refinancing. The bank's whole loan book of social and sustainability bonds is considered in the reporting of the use of proceeds, regardless of the eligibility of the loans for cover pools. The part that is refinanced via covered bonds is only a subset of the overall loan portfolio, with assets that meet the respective legal requirements. The same applies for green covered refinancing.

With regard to the assets in the cover pool, the market is strictly divided between mortgage-backed and public-sector covered bonds: the cover pool in the majority of transactions currently consists of mortgage loans. This was also the case for the first transactions in 2014 to 2016. In the following years, more and more public sector covered bonds were added, mainly by issuers from Germany, France and Austria. However, recent transactions were again mostly mortgage-backed social/sustainable covered bonds.

> FIGURE 4: STRUCTURE OF OUTSTANDING SOCIAL/SUSTAINABILITY COVERED BONDS BY COUNTRIES IN EUR MN



Source: Bloomberg, LBBW Research

The prerequisites for further growth in the market for social or sustainability covered bonds which is currently still in its infancy are the availability of a corresponding collateral pool as well as the willingness of issuers to use this basic volume of social or sustainable loans for covered bond issues. The potential with regards to the availability of cover pool-eligible assets cannot be fully assessed in our view at this point in time. Many banks have probably not yet examined their loan books with regard to their suitability as cover assets for social (covered) bonds. We see the topics of social housing and public health as possible drivers, which could open up potential for banks involved in these areas. In our view, this applies to Austrian mortgage banks or specialist banks for the medical profession, among others. Apart from social housing, there should be potential, especially in public sector loan books. Banks with high exposures in sectors like waste disposal and water management have been drivers for the social covered bonds market. However, whether these banks use their social/sustainable loan portfolios for covered bond issues or prefer social senior issues, for example, may depend on the achievable pricing advantage of an issue with "social" or "sustainable" status. Due to narrow spread levels on the secondary markets for covered bonds, we see covered refinancing at a disadvantage here. In summary, the social covered bond is likely to remain a niche product on the covered bond market for the time being.

From our point of view, there is the currently still theoretical potential for sustainability-linked bonds (SLB) in covered bond format: a fourth type of bond with a sustainability focus which can be used for general corporate financing. Another important differentiation criteria from "use of proceeds" type of bonds is the issuer's commitment to future improvements in sustainability criteria within the defined timeframe, which are measured quantitatively and result in changes to the bond's characteristics (e.g. interest coupon) if they are achieved or not. ICMA also provides guidelines as a market standard for this bond type, which is quite new in the financial sector. So far, the only SLBs issued by banks have been senior preferred issues. Other issuance formats are possible, however, which means that an SLB covered bond also seems realistic. SLBs are in principle ECB-eligible and would also be eligible for the CBPP3 purchase program as covered bonds analogous to "normal" CBs.

#### **REGULATORY DEVELOPMENTS FOR SOCIAL/SUSTAINABILITY COVERED BONDS**

Growing attention and vigilant issuance volumes are also accelerating the need for further standardisation and development in the area of social bonds. There are several initiatives and projects, both from the political and the market side, which address this with different focuses and from various perspectives.

The European Commission has established the EU Platform of Sustainable Finance as a permanent expert group to assist the Commission in developing its sustainable finance policies, notably the further development of the

EU Taxonomy. Compared to the former Technical Expert Group (TEG) the Platform has a wider scope and also incorporates social topics. A separate Social Subgroup has been founded pursue this purpose. The main goal is to advise the Commission on extending the scope of the taxonomy beyond environmentally sustainable economic activities to other sustainability objectives, such as social objectives (Social Taxonomy). Additionally, the Sub-group provides further information regarding the consideration in respect of international labour standards and human rights and on the possible need to supplement the requirements thereof (Minimum Social Safeguards). It is planned to report on social objectives by Q2 2021 and on compliance with Minimum Social Safeguards by Q4 2021. A first draft report was published in July 2021 to share the conceptual status concerning a Social Taxonomy. The big challenge will be to find a consistent approach for the broad spectrum of social related themes on the background of regional or national differences and to achieve a degree of practicability that meets both market needs and the wishes of society. Currently, the subgroup is very small and the number of market participants and industry representatives is so low that it is questionable whether the concerns of the companies and the operational implementation issues can be adequately represented.

On the capital market side, it is especially the ICMA with the voluntary guidelines of the Social Bond Principles (SBP) that have been established as a market standard for years.

Within the Social Bond Working Group (SBWG) continuous efforts are made to expedite the development of the social bond market through the establishment of a public forum to further develop the SBP conceptually and in terms of content and to adapt it to new situations or challenges. The SBWG consists of a wide range of market participants, mainly investors, issuers, sustainability rating agencies and other interested parties, reflecting numerous global perspectives. In 2020, the SBP reacted quickly and pragmatically to the challenges of COVID-19 and the respective impacts of national economies. The adjustments in the SBP allowed issuers to provide social bonds whose use of funds were related to COVID-19 consequences, thus engaging investors in the fight against the pandemic. This flexibility is a key feature of the SBP and a strength in terms of any future need for change. Currently the different workstreams of the SBWG discuss and refine the SBP concerning various topics. Regarding impact reporting monitoring metrics and tools are screened to reduce „impact washing“ and to align methods of reporting. A subgroup for SPO review tries to improve the possibilities of potential issuers to prepare for questions and processes typically used by SPO providers. The workstream for case studies delivers examples and best practices for Social Bonds and the respective frameworks useful for all market participants. The survey and promotion subgroup is looking for ways to make social bonds even more popular and to convince politicians and the capital market of the sustainable value of the product. One way is to develop practical tools which make it easier for potential issuers or investors to set up a Social Bond (framework) and to assess the quality. As with ecological issues, social aspects also need the opportunity and approaches for a transformation process. This is covered in the SBWG's just transition workstream. All in all there are a number of issues that the capital market is discussing right now. This is also a sign of how dynamic the market segment is and that there is still a long way to go to real, stable and resilient standards.

This is a good keyword for another market initiative that particularly deals with covered bonds with explicit social goals. The Association of German Pfandbrief Banks (vdp) has recently published the Minimum Standards for Social Pfandbriefe. The minimum standards are based on the SBP and contain transparency requirements under which banks commit to undergo external reviews and to draw up and publish impact reports. Moreover, they take their bearings from the United Nations' sustainability objectives (Sustainable Development Goals, SDGs). The issuance proceeds from Social Pfandbriefe are to be used solely to (re-) finance suitable assets. These include the areas public supply, social housing, education and research as well as health and care. This initiative marks the first national market driven attempt to define rules which combine both social and covered bond aspects.

The selection of theme categories also makes it clear that the topic of social purpose can help an asset class that has been somewhat neglected for some time to make a revival – the public covered bond. While green covered bonds have established themselves for the representation of ecological goals, they are less suitable for social

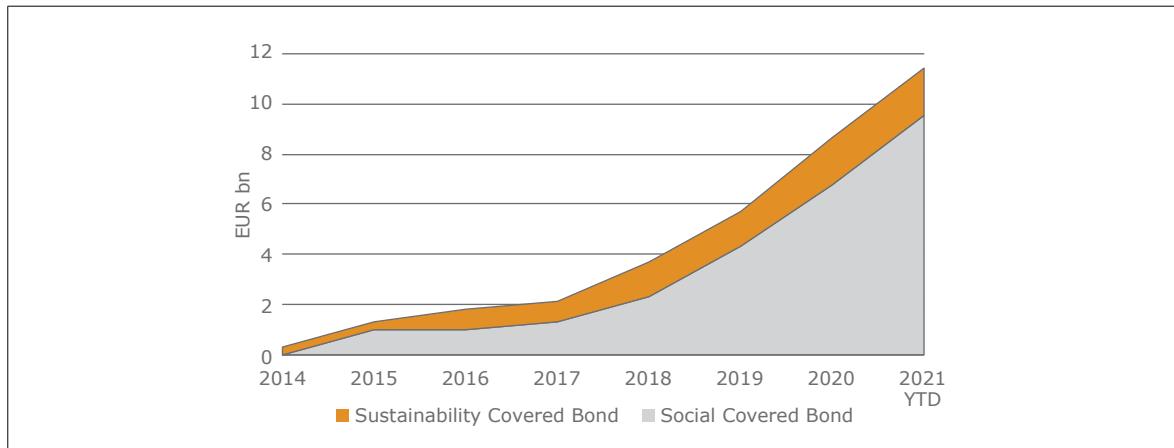
goals. That public business can make a significant contribution as a social reference – be it public infrastructure, hospitals, schools, water supply, etc. – is very obvious here. Social public covered bonds can serve as the ideal refinancing instrument.

The relevance of social related topics and financial products will further increase, especially if the EU Commission intensifies its efforts to develop a Social Taxonomy to complement the current Taxonomy which clearly focuses on green aspects. That is why further steps concerning standardisation and regulation are highly probable and in a way also necessary.

#### **MARKET OVERVIEW FOR SOCIAL/SUSTAINABILITY COVERED BONDS**

The social and sustainability covered bond has emerged in 2014 with the first ESG Pfandbrief issuance with a social focus in semi-benchmark format. In 2015, the first social covered bond in benchmark size followed, which was issued by a Spanish issuer. Momentum started to build in 2018 with two EUR benchmark social covered bonds and one sustainability covered bond. In 2020 and the first half of 2021, banks increasingly used social and sustainability covered bonds to refinance eligible projects.

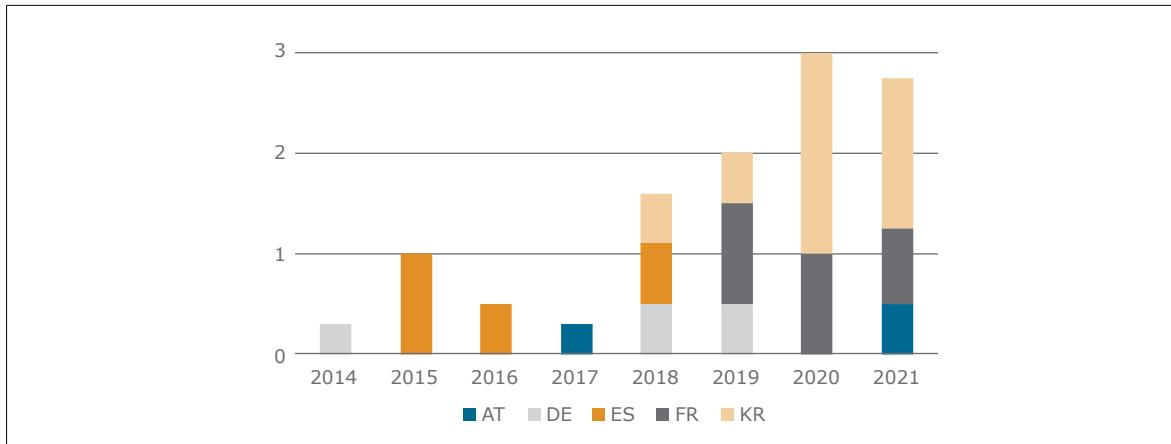
> FIGURE 5: DEVELOPMENT OF OUTSTANDING VOLUME OF SOCIAL AND SUSTAINABILITY BONDS



Source: Bloomberg, UniCredit Research

As of end-June 2021, the asset class comprised 13 social covered bonds in benchmark size, one in semi-benchmark size and three benchmark sustainability covered bonds. The aggregated outstanding volume was EUR 11.16 bn at the end of June 2021. With respect to the number of issuers, there are currently seven active issuers in the social covered bond market from five countries, which have 15 social covered bonds with a volume of EUR 9.55 bn outstanding. In addition, two issuers from two countries have a total of three EUR benchmark sustainability covered bonds outstanding. The first sustainability covered bond issued in 2014 has already matured.

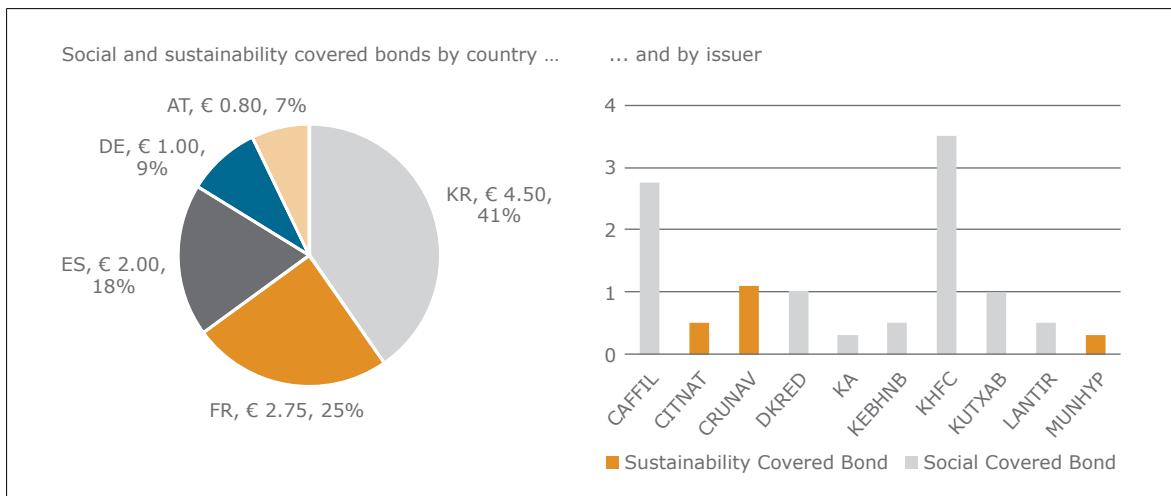
> FIGURE 6: PRIMARY MARKET ACTIVITY OF SOCIAL/SUSTAINABILITY COVERED BONDS IN EUR MN



Source: Bloomberg, UniCredit Research

Looking at the regional distribution of primary market activity, an initial focus on Europe becomes clear. After starting with a sub-benchmark Pfandbrief from Germany, all issuers were Spanish except for one Austrian issue in the years that followed. Public sector Pfandbriefe and the first issue from Korea followed in 2019. Korean banks were also responsible for the strong growth that the market experienced with a total of seven issues from three different issuers with a total volume of EUR 4.5 bn, especially since 2020. South Korea thus became the dominant region for social/sustainability covered bonds. French issuers entered the market relatively late (from 2019 onwards), but now occupy second place with a volume of EUR 2.75 bn.

> FIGURE 7: MARKET OVERVIEW

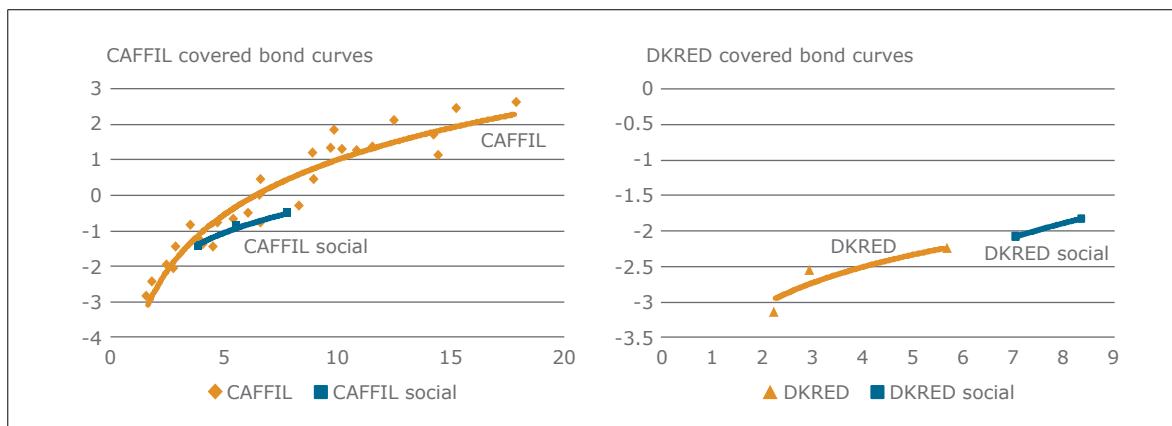


Source: Bloomberg, UniCredit Research

Social and sustainability covered bonds have the same high security standards and risk profiles as "ordinary" covered bonds. Thus, there should be no significant price difference among comparable covered bonds as is the currently the case. However, potential (minimal) differences could arise from the broader investor base and the implied higher demand for social and sustainability covered bonds.

With respect to relative value, it is challenging to analyze the existence of a premium for social and sustainability covered bonds compared to "ordinary" covered bonds. First of all, the spread landscape of covered bonds is overall compressed and thus offers limited scope for differentiation. In addition, most issuers do not have covered bonds with a comparable tenor outstanding in both social or sustainability covered bonds and in "ordinary" covered bonds. However, the French issuer CAFFIL and the German issuer Deutsche Kreditbank can be taken as suitable examples. The chart below indicates a small premium, i.e. tighter spreads, of up to 1 bp. We would like to stress that this is only an indication as the covered bond secondary market is very much dried out and in the case of Deutsche Kreditbank the tenor of social and ordinary covered bonds differs. The premium can be explained by the additional demand from ESG investors, which strongly buy into a relatively small number of bonds issued in this sector.

> FIGURE 8: EXAMPLE OF CAFFIL AND DKRED COVERED BONDS



Source: iBoxx, Bloomberg, UniCredit Research

## **1.8 THE INVESTOR'S PERSPECTIVE**

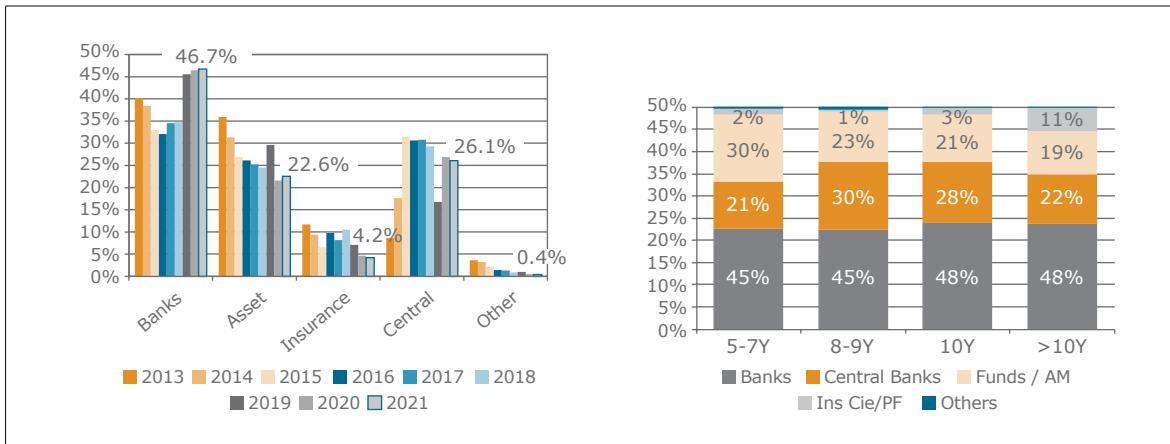
By Cristina Costa, Société Générale and Sabrina Miehs, Helaba

### **Overview of covered bond investor base**

ECB buying and monetary policy continue to have a strong impact on primary order book statistics and investment choices, crowding out some real money investors. Similar to last year, bank treasuries and asset managers continue to be the largest investors in covered bonds. The former invest in covered bonds mainly for liquidity buffer purposes, and their participation in the primary market remains strong. They currently make up almost half of primary order book statistics. In contrast, demand from asset managers has decreased vs last year (from 30% to 22%), driven by the search for higher-yielding alternatives, i.e. spread performance, and as such, this investor type is attracted to higher-beta, peripheral names and to covered bonds from new jurisdictions and/or in other currencies.

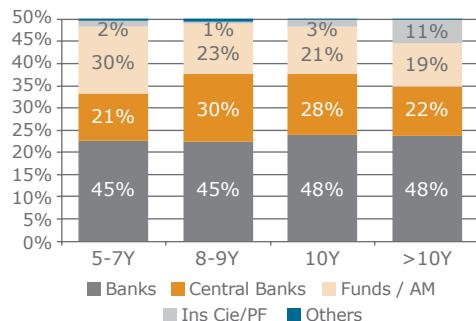
With the revival of the ECB's net APP, the allocation to central banks (in which CBPP3 plays a large role) has risen from 17% on average in 2019 to c.27% ytd. Demand from insurance companies and pension funds is geared towards higher-yielding paper and paper from high-beta issuers. These types of investors make up only 5% of the investor base in new issues, but they represent a larger share (c. 10%) of longer-dated issues (>10y).

> FIGURE 1: BANKS MAKE UP ALMOST HALF OF PRIMARY DEAL ALLOCATIONS



NB. 2021YTD as of 25 May 2021;  
Source: SG Cross Asset Research/Rates

> FIGURE 2: INSURANCE COMPANIES MAINLY ACTIVE IN >10Y SEGMENT



NB. 2021YTD as of 25 May 2021;  
Source: SG Cross Asset Research/Rates

Although the low interest rate environment renders the asset class less attractive for real money investors, bank treasuries remain strong buyers. And although the granularity of order books is lower than a few years ago, we believe that this is temporary and that investors will be back when issuance volumes return to more normal levels (and the ECB starts tapering its APP programme).

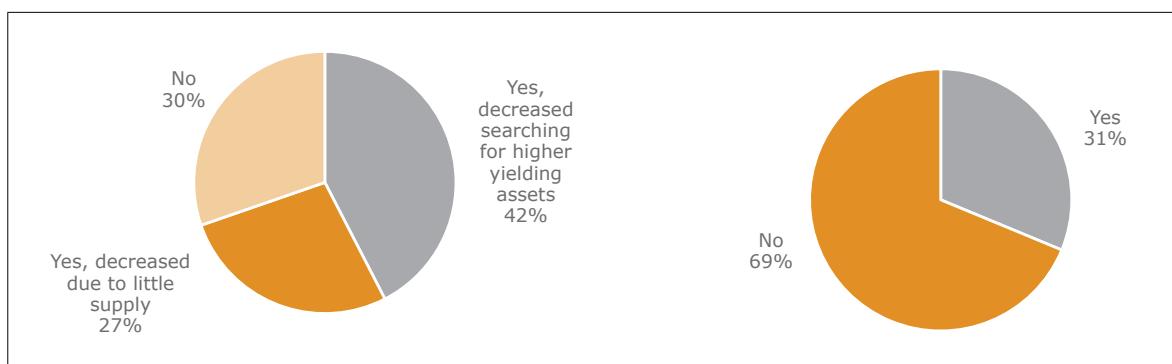
### **Investor survey**

In April and May, we conducted an anonymous survey of European covered bond investors to gauge investor sentiment around covered bonds in light the ECB's continued APP, rounds of TLTRO 3, and tight ASW spread environment. We wanted to assess investor appetite for the asset class and understand what some of the investment decision drivers are. Our sample is based on close to 40 investor responses and is representative of the current investor base, given that half of respondents were from bank treasuries, 35% asset managers and the remaining were from insurance companies.

## Allocation

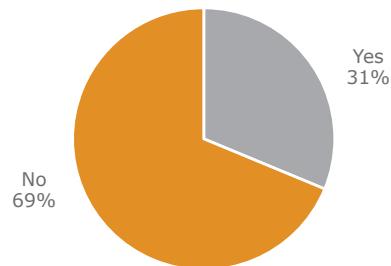
It is no secret that tight ASW spreads, lack of liquidity and tight spreads to SSA has rendered the asset class less attractive. When asked how investors' allocation to covered bonds has changed since the beginning of the year, two-thirds of the respondents answered that they had reduced their covered bond holdings this year due to the search for higher-yielding assets primarily, but also due to lack of supply. Bank treasuries seem to be a more stable investor base at the moment; when looking at only the bank treasury investors who responded to the survey, 40% said they are keeping their covered bond holdings unchanged. They are also less sensitive to lower yields as 40% say they decreased their allocation because of little supply.

> FIGURE 3: HAS YOUR ALLOCATION TO COVERED BONDS CHANGED SINCE THE BEGINNING OF 2021?



Sources: ECBC Factbook survey, Helaba, Société Générale

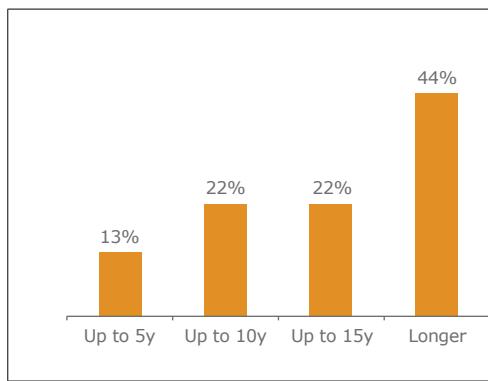
> FIGURE 4: HAVE YOU INCREASED THE DURATION OF YOUR COVERED BOND PORTFOLIO IN 2021?



Sources: ECBC Factbook survey, Helaba, Société Générale

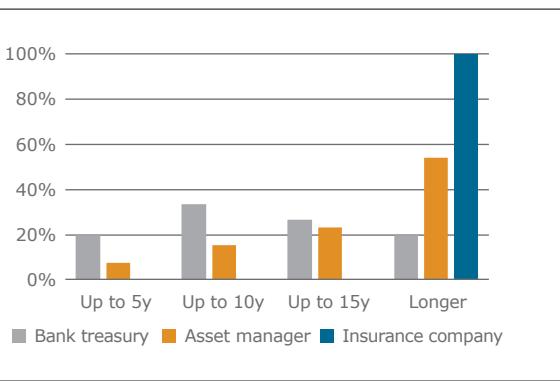
In terms of maturity preferences, it seems the majority of investors can invest across the covered bond curve and have no preference. However, the devil is in the detail. When we break down the responses by type of investor, it is clear that bank treasuries have a clear preference to remain invested up to 10y, with this investor type looking at covered bonds across the spectrum, including the short end. In contrast, asset managers have a slight preference for longer-dated covered bonds (>15y), and this tendency is exacerbated when looking only at responses from insurance companies, where the search for yield is the predominant driver that makes them invest only in long-dated CBs.

> FIGURE 5: UP TO WHICH MATURITY ARE YOU ALLOWED TO INVEST? (ALL)



Sources: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 6: UP TO WHICH MATURITY ARE YOU ALLOWED TO INVEST? (BREAKDOWN BY INVESTOR TYPE)

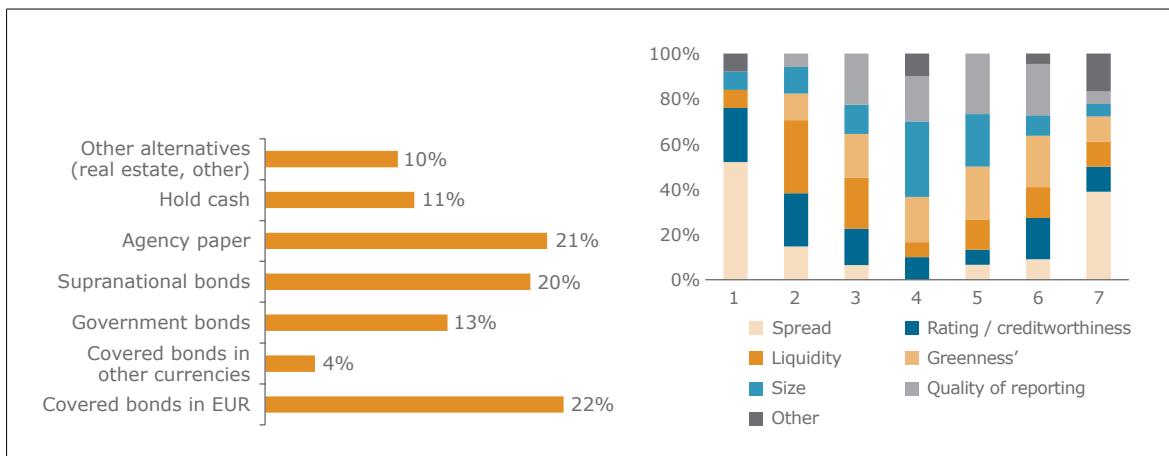


Sources: ECBC Factbook survey, Helaba, Société Générale

## Where to invest in low supply environment?

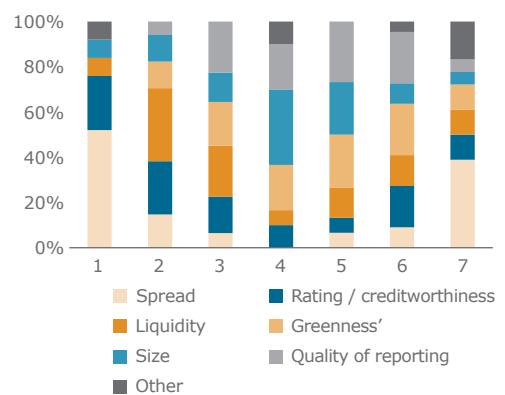
Given the ECB's favourable TLTRO 3 conditions and the fact issuers are reverting to ECB funding instead, primary covered bond supply is close to 40% down yoy. As of end-May, there was €40bn of negative net supply, i.e. covered bond redemptions far outweigh publicly issued euro benchmark CBs. Against this background, we asked investors where they are investing cash from their EUR covered bond maturities. In a context of negative net supply, investors have been reluctant to sell because they know supply will remain limited, and holding cash is not a realistic option. The answers are quite evenly distributed among covered bonds in EUR, agency paper and supranational bonds. Some 13% of respondents stated that they use the cash to invest in government bonds, and close to 11% said they hold cash (these were mainly bank treasuries). Asset managers and insurance companies also indicated they use the cash to invest in higher-yielding alternatives, be it covered bonds in other currencies or alternative investments (real estate, etc).

> FIGURE 7: IN A CONTEXT OF NEGATIVE NET SUPPLY,  
WHERE DO YOU INVEST CASH FROM EUR CB MATURITIES  
(MORE THAN ONE ANSWER POSSIBLE)?



Sources: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 8: WHEN INVESTING, WHICH FACTORS ARE  
MORE IMPORTANT TO YOU? PLEASE RANK IN ORDER OF  
PREFERENCE FROM 1 (HIGHEST) TO 7 (LOWEST)



Sources: ECBC Factbook survey, Helaba, Société Générale

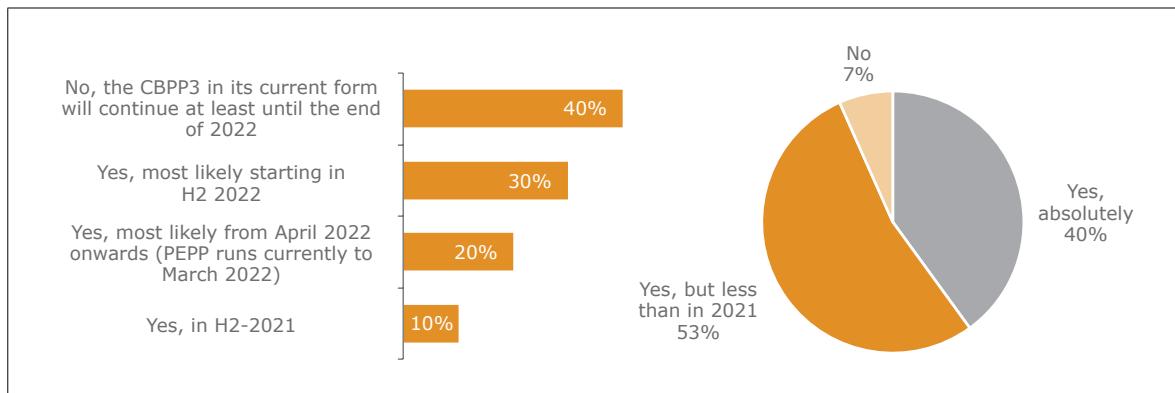
When asked what factors drive investments in covered bonds, the level of spread was the most prominent driver followed by liquidity, rating/creditworthiness and quality of reporting. It is worth noting that while none of the investors put green/sustainable first the ESG factor is mentioned as the second most important investment driver for a few investors and ranks almost as high as liquidity and quality of reporting when it comes to the third most important investment driver. When it comes to spreads it is interesting to note that there are no clear cut answers from bank treasuries. Some see it as the most relevant factor and a third considered it the least important.

## CBPP3 and its consequences

We asked investors to tell us what they thought were the main consequences of the ECB's longstanding CBPP3 purchases and to rank these factors in order of preference. The main consequence cited was the mis-pricing of risks, followed by crowding out of the investor base, and the drying up of secondary market liquidity. Of less importance were factors such as "providing for a comfortable long-term stability of spreads" and "creating a stable environment where covered bonds from new jurisdictions can come to the market". However, the latter reached the second place of investors' choice for the second main consequence of CBPP3 showing a certain admission to the purchase program's positive side effects.

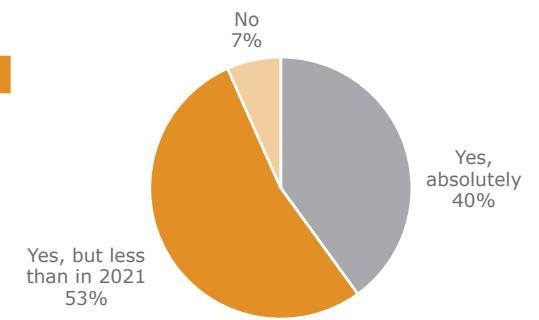
With the vaccine rollout picking up in Europe and economies reopening, investors are expecting a return to consistent economic growth. At the same time, while ECB APP and PEPP purchases have remained relatively steady, real money investors are concerned the ECB could start to taper its PEPP programme soon, bringing about volatility in the rates market. That said, the fear of withdrawal of ECB support does not seem to translate to CBPP3 given that only 10% of respondents believe that the ECB could stop its net purchases of covered bonds in 2H21, and 17% stated that this could happen from April 2022 (the PEPP is expected to run until March 2022). In contrast, 41% of surveyed investors believe that ECB support will continue at least until the end of 2022.

> FIGURE 9: DO YOU BELIEVE THE ECB MIGHT STOP ITS NET PURCHASES OF COVERED BONDS AS PART OF CBPP3?



Sources: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 10: DO YOU BELIEVE THAT TLTRO 3 EFFECTS ON COVERED BOND ISSUANCE WILL LAST UNTIL 2022?



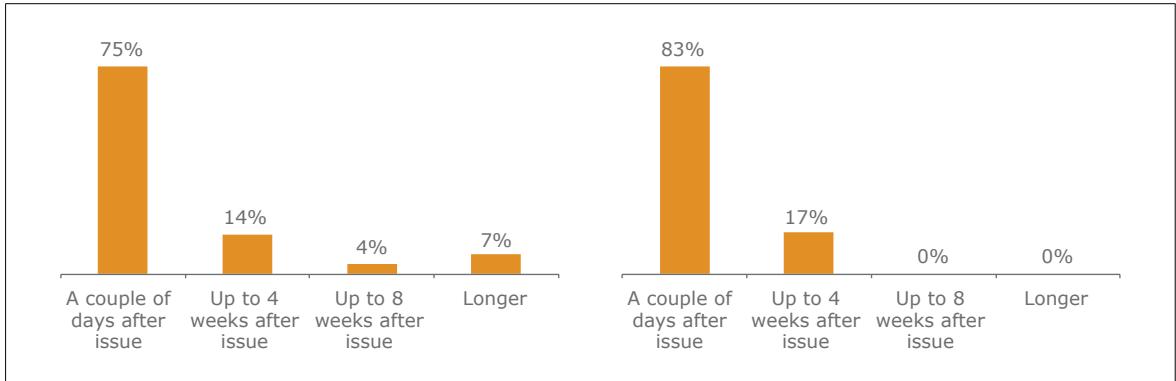
Sources: ECBC Factbook survey, Helaba, Société Générale

As we mentioned earlier, the ECB has crowded out the market not only via its CBPP3 purchases but also by providing cheap funding conditions through TLTRO 3. Over 90% of investors believe TLTRO 3 effects will continue to impact the covered bond primary market until 2022, but most believe the impact will be less felt in 2022 than in 2021.

### Lack of liquidity

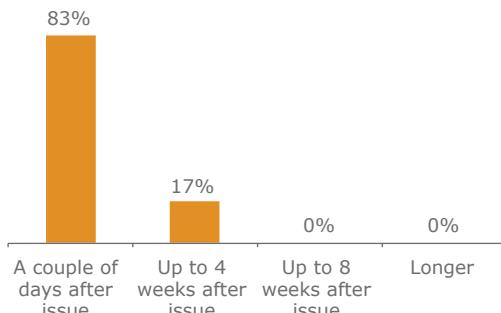
The ECB's CBPP3 purchases since November 2014 has not only crowded out real money investors, but has dried up liquidity in secondary. In order to get an impression of secondary market liquidity, we asked investors how long it is possible to buy a new issue relatively easily in the secondary markets, once a new issue has come to the market. Three quarters of the respondents (83% when looking only at bank treasuries) said they can buy an issue a couple of days after issue, with an additional 15% stating up to 4 weeks after issue and a small percentage of investors indicating they can find liquidity for longer.

> FIGURE 11: AFTER A NEW ISSUE HAS COME TO THE MARKET, HOW LONG IS IT POSSIBLE TO BUY A NEW ISSUE RELATIVELY EASILY IN THE SECONDARY MARKETS? (ALL INVESTORS)



Sources: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 12: HOW LONG IS IT POSSIBLE TO BUY A NEW ISSUE RELATIVELY ISSUE IN SECONDARY (BANK TREASURY INVESTORS ONLY)?



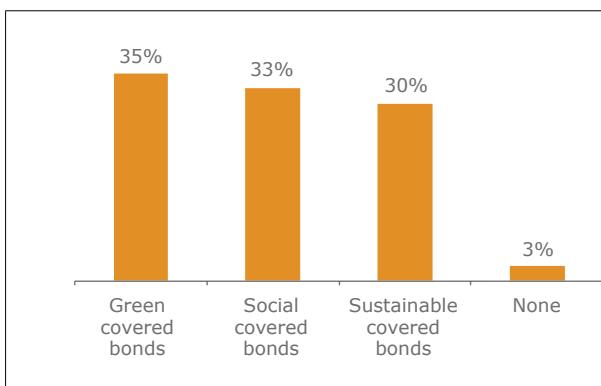
Sources: ECBC Factbook survey, Helaba, Société Générale

### ESG considerations

The momentum of increased dedicated support from institutional investors to support green/sustainable projects and reduce emissions and protect against climate change has been confirmed as the number of ESG accounts keeps increasing. Given growing interest – both from the EU, regulators, supervisors and investors in green/sustainable bonds – we decided to ask investors how they were positioned with respect to ESG topics.

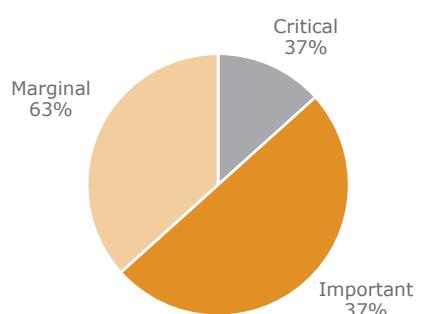
As the charts below show, ESG factors are coming to the forefront and almost all investors we surveyed invest in green, social and/or sustainable bonds and covered bonds. When managing the covered bond portfolio, 50% mentioned ESG factors were important, and a further 13% said they were critical investment drivers for their funds.

> FIGURE 13: DO YOU INVEST IN (MORE THAN ONE ANSWER POSSIBLE)?



Sources: ECBC Factbook survey, Helaba, Société Générale

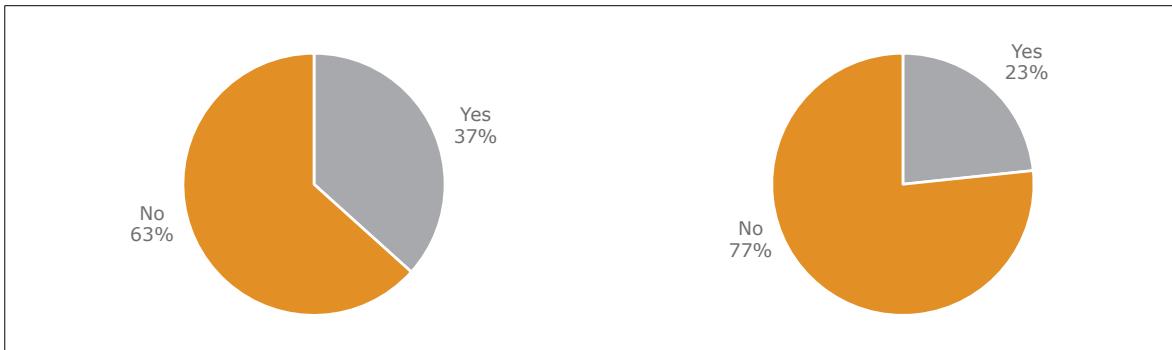
> FIGURE 14: WHEN MANAGING YOUR COVERED BOND PORTFOLIO, HOW IMPORTANT ARE ESG FACTORS?



Sources: ECBC Factbook survey, Helaba, Société Générale

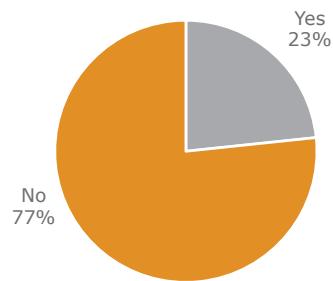
Although it is not yet clear that integrating ESG factors in investment decisions automatically leads to higher financial performance, more than a third of the respondents said they experience higher returns – which is a noteworthy statement. Some indicated that a lower ESG profile of an issuer, could deliver worse financial performance, as investors shy away from this type of investments.

> FIGURE 15: DO YOU THINK THE INTEGRATION OF ESG FACTORS IN YOUR INVESTMENT DECISIONS GUIDES TO A HIGHER FINANCIAL PERFORMANCE?



Sources: ECBC Factbook survey, Helaba, Société Générale

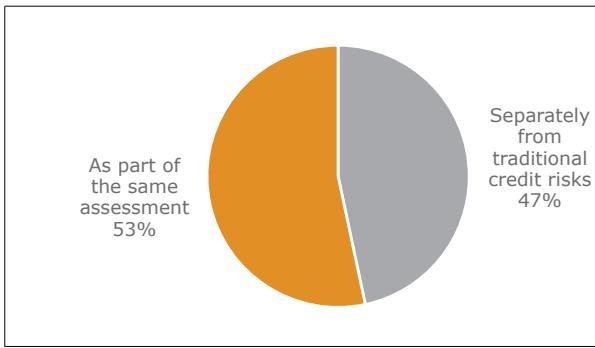
> FIGURE 16: IN THE PAST 12 MONTHS, HAVE YOU DECIDED NOT BUY/TO SELL COVERED BONDS DUE TO ISSUER'S NEGATIVE ESG CREDENTIALS?



Sources: ECBC Factbook survey, Helaba, Société Générale

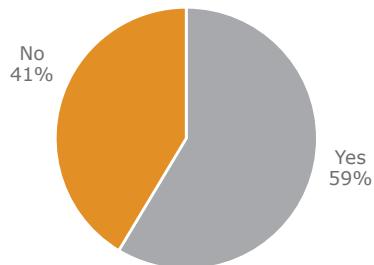
53% of the investors surveyed stated they treat ESG risks as part of the same assessment (i.e. incorporated in the traditional credit analysis), and close to 60% say that although they do look at second party opinions on ESG/sustainability, they evaluate ESG risks based on in-house developed analytical tools. Although the answers indicate an advanced analysis of ESG risks we would have to ask for more details to understand which concrete type of ESG approach investors are applying. Typically, the majority of bond investors follow at least a negative and positive screening approach to manage ESG risk and target companies or bonds with better ESG performance.

> FIGURE 17: HOW DO YOU TREAT ESG RISKS?



Sources: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 18: HAVE YOU DEVELOPED IN-HOUSE ANALYTICAL TOOLS TO EVALUATE ESG RISKS IN YOUR PORTFOLIOS?

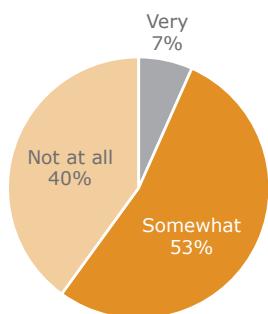


Sources: ECBC Factbook survey, Helaba, Société Générale

Green bond indices make it easier for investors to track the performance of green bonds and compare it with other investments. Although 60% of the respondents indicated green bond indices are important to them (with 7% citing them as very important), 40% stated they were not. This could be because the investment in green covered bonds is part of an aggregated fund, and not necessarily a pure ESG fund. When asked about the main ESG investment drivers, most investors surveyed cited the issuer's overall ESG score as the main factor, followed by alignment with ICMA's green bond principles. Alignment with the EU Green Bond Standards and Taxonomy was not that highly ranked, although we expect this factor to become more important going forward.

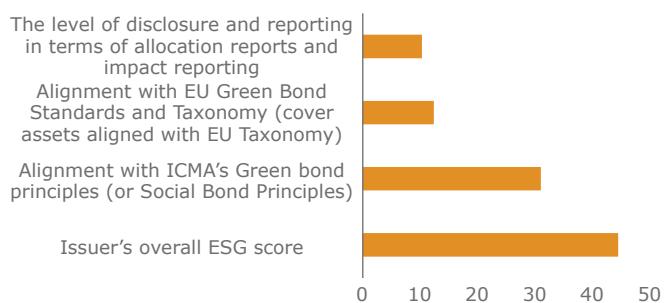
The European Commission's announced on 21 April 2021 that it had reached political agreement on the climate Technical Screening Criteria (TSC) for the EU Taxonomy Climate Delegated act, together with measures to support climate change mitigation and climate change adaptation. This moves the industry closer to a green classification framework. Support for transitional activities could also be on the way. The TSC will be subject to a scrutiny period by the European Parliament and Council. If the co-legislators do not object to the delegated act, it will be published in the Official Journal and apply from 1 January 2022.

> FIGURE 19: HOW IMPORTANT ARE GREEN BOND INDICES?



Sources: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 20: WHEN LOOKING AT POSSIBLE ESG INVESTMENTS, WHAT IS MOST IMPORTANT TO YOU? (RANKED IN ORDER OF PREFERENCE)

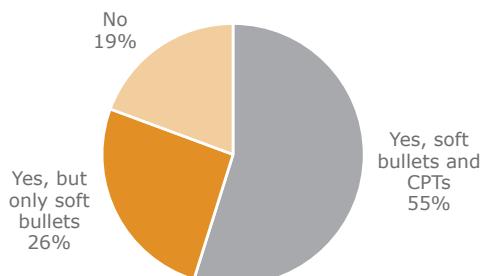


Sources: ECBC Factbook survey, Helaba, Société Générale

### Investor structural preferences

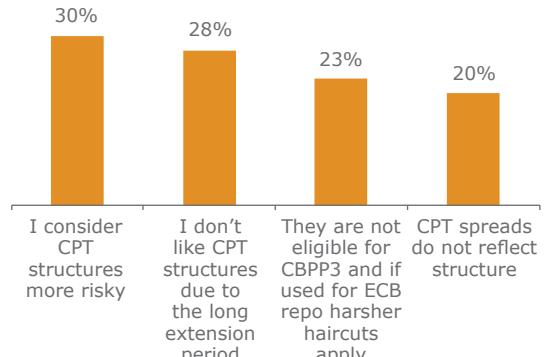
We asked investors about their preferences with regards to maturity structures. Most of the respondents can buy all types of covered bonds (i.e. hard bullets, soft bullets and CPTs), although 20% of respondents said they cannot invest in CPTCBs and 27% said that even though their mandates allow them to invest in CPTs, they only invest in soft bullets, because they are not rewarded (from a spread point of view) for the additional risk they take.

> FIGURE 21: DOES YOUR MANDATE ALLOW YOU TO INVEST IN COVERED BONDS WITH A SOFT OR CPT STRUCTURE?



Sources: ECBC Factbook survey, Helaba, Société Générale

> FIGURE 22: WHY ARE YOU NOT ABLE TO INVEST IN CPTCBs?



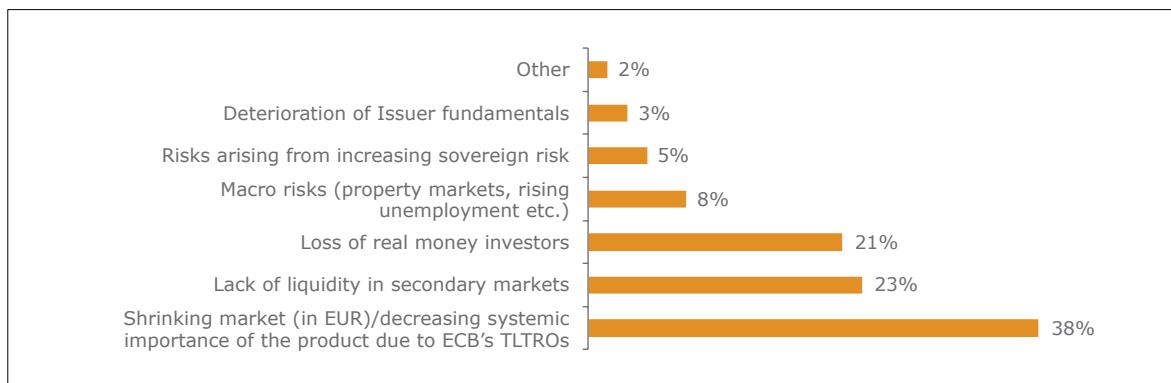
Sources: ECBC Factbook survey, Helaba, Société Générale

When asked about structural covered bonds, 55% stated they do not invest in non-legislative covered bonds. Of the 45% that do, half of them said it depends on the pricing vs conventional (legal-based) covered bonds.

### Looking ahead

We asked investors to tell us in their opinion, what is the biggest challenge facing the covered bond market. Most respondents cited a shrinking market in EUR and decreasing systemic importance of the product due to the ECB's TLTROs. Other challenges mentioned included the crowding out of real money investors and lack of liquidity. However, whenever speaking to clients lately they are confident that when the ECB ends the purchase program, covered bond markets will return to higher issuance and the phase of reduced holdings by real money investors will come to an end. But investors are also keeping an eye on issuer fundamentals, as they mentioned macro risks as consequences of the COVID pandemic (i.e. fall of house prices, rising unemployment) and risks arising from increasing sovereign risk.

> FIGURE 23: WHAT DO YOU THINK IS THE BIGGEST CHALLENGE FOR COVERED BONDS GOING FORWARD? (MORE THAN ONE ANSWER POSSIBLE)



Source: SG Cross Asset Research

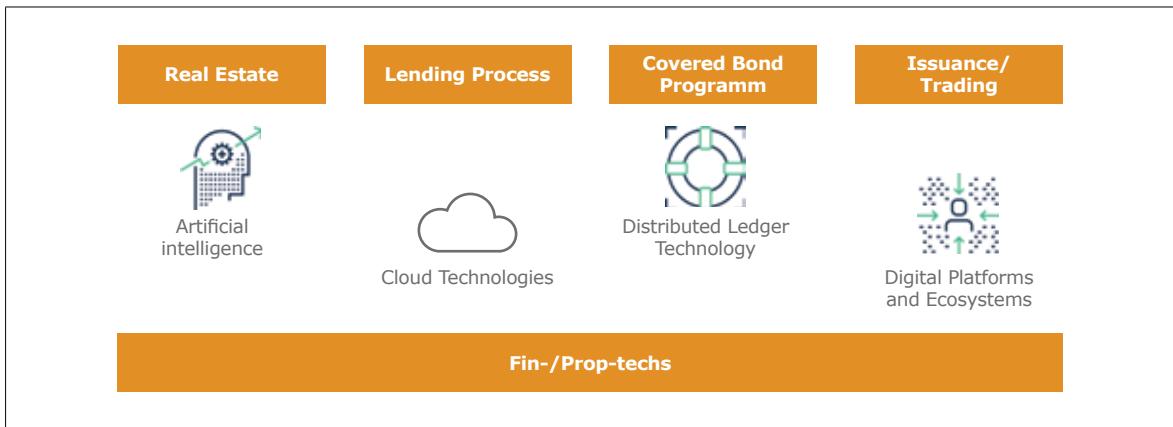
## **1.9 DIGITALIZATION IN THE COVERED BOND AND MORTGAGE FINANCING MARKET**

By Karsten Rühlmann, LBBW

Digitalization is regarded in the banking industry as one of the most important trends of the future. The COVID-19 pandemic has accelerated this process. Indeed, banks will have to completely and rigorously digitalize if they want to meet their customers, employees and owners expectations today and in the future. At the same time, they will have to respond the growing competition from bigtechs and fintechs. Digitalization is becoming a key competitive factor at various levels. On the one hand, banks have to digitalize their existing businesses and regularly augment them with digital innovations. On the other hand, they have to develop new business models outside their established core business. To do that, they will have to digitalize internal processes and customer interfaces so that, in the end, customers can actively participate in business processes.

The covered bond value chain, with its data-intensive processes and wide-ranging stakeholders, offers many different avenues for digitalization. In this article, we look at selected technologies and assess their ability to drive digitalization in the covered bond market. Each technology can be employed at different links of the value chain. The technologies can also build on or complement one another.

> FIGURE 1: POSSIBLE APPLICATIONS OF VARIOUS TECHNOLOGIES ALONG THE COVERED BOND VALUE CHAIN



Source: LBBW Research

### **ARTIFICIAL INTELLIGENCE**

Few industries possess as much data as financial companies. Artificial intelligence offers a way to capitalize on this informational treasure trove. The term “artificial intelligence” (AI) generally refers to information processing technologies that enable computers to autonomously solve problems. The boundaries between robots, robot process automation (RPA) and AI in the form of self-learning algorithms are fluid. The most important AI subgroup, especially in practice, is machine learning (ML). It involves training algorithms with large, highly varied volumes of volatile real-time data (also known as “big data”) – i.e. the computer is given a lot of sample data to learn from – so that the algorithms can make low-cost predictions and perform tasks autonomously by learning from their data histories. Increasingly powerful processors and enormous storage capacity – such as that offered by cloud systems – have multiplied the areas in which AI can operate. For example, it can power customer-facing chatbots, automation solutions or predictive marketing. However, AI can also support internal processes and thus reduce the complexity of risk assessments or provide decision support in controlling.

All these application scenarios require the data to be available in machine-readable form. In addition, an intelligent algorithm has to be developed by IT experts working with subject-matter experts. Nor should the regu-

latory framework be ignored. The financial sector is highly regulated, and so financial firms have to be able to explain processes and decisions clearly and in detail to regulators and internal auditors. AI-based applications thus have to be transparent at all times instead of being an inscrutable black box.

AI's vast potential has been recognized by the EU, too. The European Commission has been advancing this issue for several years. It began by publishing the European AI strategy in 2018, releasing a white paper on AI in 2020 and then publishing a proposal for an EU regulation on AI at the end of April this year. As things currently stand, the proposed regulation would be the world's first consolidated legal framework on AI. The EU wants to make Europe more competitive and turn it into the global epicenter for trusted AI. The regulation follows a risk-based approach, differentiating between uses of AI that create an unacceptable risk, a high risk, a low risk or a minimal risk. AI systems that present an unacceptable risk (e.g. social scoring, toys that encourage dangerous behavior, etc.) are strictly prohibited. The other categories are governed by rules of varying strictness.

AI can be – and already is – used in various ways along the covered bond value chain. One good example is property appraisals: AI can assist in generating a current appraisal and determining a property's potential for future value growth. However, this application requires large volumes of training data and so seems to be best employed in large cities and metropolitan regions. Climate change has also increased the importance of forecasting natural hazards at an early stage. AI can help to collect and analyze appropriate weather and geological data in order to ensure properties are adequately insured, as required by many covered bond laws. In addition, AI is already being used in loan underwriting. Documents such as pay stubs, company reports or land registers can be digitized using optical character recognition (OCR) technologies and then analyzed algorithmically in seconds. The EU's Payment Services Directive (PSD) II, which went into force in 2016 and was transposed into national law by the start of 2018, also allows the inclusion of data points from other banks in the underwriting process with the customer's consent. AI streamlines loan administration later in the credit lifecycle, too. Automated data analyses can help in making predictions about future non-performing loans or the development of current non-performing loans so that cover pools can be managed accordingly. Another area that can benefit from AI is ESG, especially when complying with the complex requirements laid out in the EU Taxonomy Regulation. The regulation's technical evaluation criteria can be programmed in a system and then used to generate automated processes that perform various tasks such as automatically managing the green portion of the cover pool. AI can also support the issuance process. As long as enough data points are available, it can leverage historical data from past primary market deals as well as secondary market data to determine the ideal timing and pricing for a new issue.

## **CLOUD COMPUTING**

Cloud computing is considered one of the key technologies for digitally transforming the financial sector. Cloud technologies generally involve providing computing resources – servers, storage, (AI) software, etc. – over the internet. IT infrastructure can thus be delivered over a network instead of maintained locally. This offers countless benefits for financial institutions. Capacities can be flexibly controlled and are also infinitely scalable, minimizing the risk of system failures. In addition, banks can respond effectively to traffic peaks caused by a sudden influx of customer inquiries. Cloud technologies can also be used to develop digital systems and applications together with AI, distributed ledger technologies or digital platforms. They also enable prompt responses to customers' constantly growing needs. Ultimately, cloud computing lowers ongoing operating costs by reducing local server capacity. The creation of on-demand infrastructure and pay-per-use service solutions turns fixed costs into variable ones. In its autumn 2020 risk assessment for the European banking system, the EBA called cloud technology one of the technologies most widely used by banks. 86% of respondents stated that they were already using (76%) or piloting (10%) cloud computing. The remaining institutions were still developing (7%) or discussing (7%) concepts for cloud technology.

To harness the full cost-cutting potential of cloud technologies, banks have to move from their oft-favored private clouds to the public cloud. Private clouds hold very little potential for cost-cutting since they have to be operated by the banks themselves. That means they are exclusively available to the banks operating them but also entail tremendous administrative effort. In contrast, infinitely scalable public clouds are managed by large software companies such as Amazon (AWS), Microsoft (Microsoft Azure) or Google (Google Cloud). Reasons commonly cited for not using public clouds are data privacy concerns, worries about cyber-attacks and regulatory uncertainty. The EBA addressed the latter concern at the end of 2017 by issuing recommendations on outsourcing to cloud providers (EBA/REC/2017/03) and then replacing the recommendations in 2019 with guidelines on outsourcing arrangements (EBA/GL/2019/02). Various European financial service providers also joined forces to form the European Cloud User Coalition in early 2021. This initiative aims to raise awareness among cloud providers, most of whom are based in the US, for the strict regulatory requirements that European banks have to meet. Coalition members aim to jointly develop solutions to issues such as data protection, security, governance, regulation and standard contract clauses in order to establish a common set of European cloud standards for lending institutions.

Public cloud services in the banking sector break down into several “as a service” categories that essentially dictate the application areas. The solutions generally used in the banking sector are software as a service (SaaS), platform as a service (PaaS), infrastructure as a service (IaaS) and business process as a service (BPaaS). In SaaS, a vendor’s software is delivered over the cloud, while users can access their data from any location. SaaS solutions can provide software for individual banking applications – such as lending software – or entire core banking systems. PaaS revolves around providing platforms for developing, testing, running and managing the customer’s applications. IaaS customers can outsource entire data centers and thus cut out the costs of buying and maintaining hardware. In BPaaS solutions, customers can outsource entire business processes such as securities settlement.

## **DISTRIBUTED LEDGER TECHNOLOGIES**

One class of technology that financial institutions have increasingly discovered for themselves in recent years are distributed ledger technologies (DLT). DLT are largely used by (financial) intermediaries to build digital cross-industry ecosystems and reduce process costs. One of the most useful capabilities of DLT for the financial sector is that they can digitalize assets, assign them an identity and automatically and securely transfer them over the internet. The best-known distributed ledger technology is blockchain. As its name indicates, DLT systems can be understood as distributed, (de)centralized, relatively tamper-proof databases that essentially serve as the digital world’s bookkeeping system. While the traditional internet can transfer information, DLT systems can securely transfer assets electronically as well. Concrete applications for the financial industry include using smart contracts to automate processes and creating tokens to digitally represent assets in a DLT system. Smart contracts are computer programs that manage tokens and initiate automatic payment and business processes in the DLT system when certain criteria are met. Tokens are a digitalized form of asset that is assigned a certain value or function. Tokenization is thus the process of digitally representing an asset along with all attendant rights and obligations, including the ability to transfer ownership of the asset. Tokens can be visualized as containers that hold the assets and are then transferred over the internet. DLT-based transactions always follow the same basic principle: DLT application users in the real world initiate a status change in a file (i.e. a “transaction”). The status change is then automatically sent by smart contracts to selected computers in the network that are responsible for organizational matters in the DLT. Depending on how the DLT or blockchain protocol is structured, the transaction is validated either by all participating network nodes (public blockchain) or just by selected participants (private blockchain)<sup>1</sup>. The transaction is then encrypted and stored in the DLT

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<sup>1</sup> Private blockchains regularly have a central instance or at least a limited number of participants that are assigned different rights. Transactions can also only be seen by authorized participants. The R3 Corda protocol is one example. Public blockchains, in contrast, are organized in a completely decentralized manner and are open to every participant. All participants are also granted the same rights.

system. Popular public blockchain systems such as Bitcoin or Ethereum reward the validating network nodes with tokens (such as bitcoin).

Tokens sort into three basic categories depending on their function, attributes and associated rights: payment tokens, utility tokens and security tokens. Payment tokens are used to pay for goods and services. They originated with cryptocurrencies, of which Bitcoin is one of the best-known examples. Since cryptocurrencies are not issued by a specific issuer, they do not represent a financial claim on a natural person or legal entity. Furthermore they are considered to be highly volatile. To address this issue, so-called stable coins were developed, which are backed by real assets or one or more fiat currencies, i.e. officially recognized means of payment. One of the best-known stable coin initiatives is probably the Diem project (formerly Libra) initiated by Facebook, which now wants to focus solely on the USA for the time being. In addition, the project plans to work with California-based Silvergate Bank for the issuance of their Diem coin in the future. Outside of Diem, the most attention has gone toward digital currency projects operated by US banks. JP Morgan, for example, has launched a "digital USD" within its Onyx blockchain unit. There are also global initiatives, including the Fnality Global Payment Initiative, a consortium of 15 large financial institutions that initially plans to launch five local coins (CAD, EUR, GPY, GBP, USD). The private-sector projects in particular have prompted numerous central banks to look into plans for launching central bank digital currencies (CBDCs). The ECB Governing Council decided in July 2021 to launch a two-year investigation phase to explore the possible design and distribution of a digital euro. Once again, its key motivation was the digital transformation of the economy and the creation of new forms of money.

The main criterion for distinguishing between utility and security tokens is the token's function, which is consequently also decisive for its legal classification, e.g. as a security or financial instrument. Utility tokens are crypto-tokens that give their holders access to certain products or services provided by the issuer (e.g. software), much like a voucher or admission ticket. They do not generally grant rights to dividends or other financial benefits or any voting rights. In contrast, security token holders have equity or debt claims on the token's issuer that are comparable to the claims held by a shareholder or bondholder (e.g. claims similar to dividends, voting rights, interest).

Recently, financial institutions have increasingly been looking into the possibilities of security tokens in particular. Accordingly, there is a great need for regulatory clarity and security. One of the biggest trailblazers has been the Principality of Liechtenstein, which on 3 October 2019 passed a blockchain law that went into effect on 1 January 2020. However, the French parliament also addressed DLT early on in its ordinances (e.g. the "DLT Ordinance", Ordinance No. 2017-1674 of 8 December 2017) and decrees (Decree No. 2018-1226 on the use of distributed ledger technology for the representation and transmission of financial securities and the issuance and transfer of short-term notes of 24 December 2018). In Germany, the Act on the Introduction of Electronic Securities entered into force on 10 June 2021. It has eliminated the requirement to deposit a mandatory physical document with the central securities depository. Instead, issuers can choose between issuing securities on traditional or electronic way. If securities are issued electronically, the deed is replaced by an entry in an electronic securities register. Electronic securities come in two forms: central register securities and crypto securities. With a view to future solutions, the regulations apply in a technology-neutral manner, i.e. securities can be issued based on a DLT solution or another technology. The German law initially focuses on bearer bonds. It also authorizes the executive branch to issue regulations allowing electronic shares in investment funds to be issued in the future. DLT is in the focus of various regulatory initiatives bundled under the European Commission's digital finance package, too. For example, the planned Markets in Crypto Assets Regulation (MiCA) targets crypto-assets that are not yet covered by the current legal framework – mainly cryptocurrencies and stable coins as well as utility tokens and their service providers. Furthermore a regulation has been proposed regarding a "Pilot Regime for Market Infrastructures based on Distributed Ledger Technology" in order to enable market infrastructure operators to experiment with the use of DLT in financial services.

In the covered bond space France's Société Générale drew attention when it became the first bank to issue blockchain-based covered bonds. Société Générale SFH issued its first covered bond (EUR 100m, five-year maturity) in the form of a security token in April 2019. The token bears all legal rights and obligations, just like a conventional security. The custody is based on a "self-custody" solution, so no central securities depository is needed. Another blockchain-based covered bond transaction worth EUR 40m followed in May 2020. As with the first issue, Société Générale subscribed for this security token itself. Compared to the 2019 blockchain debut, another feature was added with simultaneous delivery against payment of a digital euro in the form of a stable coin issued by Banque de France (BdF) via its own private blockchain (Central Bank Digital Currency -CBDC). The smart contracts used in this structure were enhanced to enable smooth communication between the bank's Ethereum blockchain and the central bank's DLT. At the end of April 2021, the European Investment Bank (EIB) became the first SSA to issue a blockchain-based security. Once again, the placement was part of the BdF's CBDC project. The two-year EUR 100m bond was issued by a consortium comprising Société Générale, Goldman Sachs and Santander and placed with selected investors as the first multi-dealer led, primary market issuance of digitally native tokens using public blockchain technology. The investors included Union Investment, a German investment firm.

In addition to issuance, other process steps in the covered bond value chain also offer opportunities where the use of DLT could contribute to cost reductions. Fully digital DLT-based cover pool management may still seem to be a far-off vision. However, DLT is already being used at some land registers. Pilot projects have started in countries such as Georgia, Sweden and the UK. The fully digital processing of a real estate loan via DLT is also already being tested. For example, the Austrian Federal Computing Center has joined forces with Real-est8 Technologies, a proptech company, to run a pilot project in which every step of a real estate transaction – from the purchase offer to loan origination to entering the transaction in the land register – is conducted on a transaction platform. Real estate financing via crowd investing platforms is also increasingly using DLT in the course of real estate tokenization.

## **DIGITAL PLATFORMS**

Digitalization has also increased the relevance of the platform economy. High-profile providers such as Amazon, Booking.com and Uber have proven that platforms can disrupt existing markets, knock market leaders off their perches and consequently monopolize entire industries. Digital platforms are increasingly gaining importance in the financial industry, too. The possibilities created by interface solutions and the ongoing evolution of cloud technologies are making banking and financial services more modular overall. On the other side of the equation, customers increasingly want to instantly obtain different products or services through a single system or service provider. In Asia, digital payment platforms such as WeChat Pay or Alipay have shown how more and more banks are being relegated to the sidelines in the payment market and, in some cases, in the lending market. In Europe, established financial companies are having to compete with American tech giants ("bigtechs") and, increasingly, with fintechs. However, these newcomers are attracting more regulatory attention as more of them enter the market. Traditional banks could respond by creating an API-based banking-as-a-service solution in which fintechs gain access to the banks' infrastructure, which is regulated and operated under a banking license, while the banks retain control over their customers. Conversely, the fintechs' digital knowledge and service offering could be harnessed to expand the product range provided on the banks' platform. Banks have also taken the route of establishing their own fintech subsidiaries in order to accommodate their customers' rising digital expectations and simultaneously streamline their processes. In addition, fintechs that specialize in the real estate industry, known as proptechs, provide property-related services.

Several platform use cases using the above technologies have already appeared along the covered bond value chain. Online platforms for brokering mortgage loans to affiliated banks in particular have become increasingly important in recent years. They offer borrowers greater transparency and comparability while allowing lenders to expand their reach and thus diversify their loan portfolios even more.

Another increasingly popular use case for platforms is the development of alternative funding sources in the form of crowd investing. According to the 2020 Crowdinvest Market Report published by crowdinvest.de, the aggregate volume of all crowd-based real estate investments made in Germany by the end of 2020 amounted to EUR 973m. New investment declined 19% to EUR 254.9m in 2020, partly due to the COVID-19 pandemic. Crowd investments clearly still play a minor role compared to conventional property financing. But the market could experience a boost from the EU Crowdfunding Regulation (EU) 2020/1503, which passed in early October 2020 and takes effect in November of this year.

Electronic bond trading platforms – such as Bloomberg, MarketAxess or Tradeweb – have also grown in popularity in recent years. According to data from analyst firm Greenwich Associates from early 2020, 45% of European fixed-income trading alone is traded on electronic platforms. This percentage has probably risen even more in the course of the COVID-19 pandemic. These platforms offer greater speed and transparency. They lower costs by eliminating intermediate brokers. And their automated processes make it easier to satisfy regulatory documentation and transparency requirements.

There are also concrete examples of platforms developed by covered bond institutions. For example, Norway's Sparebanken Vest launched a mobile-only bank in October 2019: Bulder Bank. Its self-service approach mainly targets customers who want to be free and independent and retain control over their finances. The platform initially focuses on housing loans. Additional banking services are supposed to follow. The mobile bank uses an app platform operated on Google Cloud, allowing the development of new applications and functionalities. Software robotics automate routine processes. Loan decisions can be made within two minutes. When Bulder Bank assesses customers' creditworthiness and appraises properties, it benefits from Norway's digital infrastructure, including a national banking ID as well as direct interfaces to the Norwegian tax authorities (Skatteetaten), the Norwegian mapping and cadaster authority (Kartverket) and the Norwegian real estate database Eiendomsverdi. That also means customers do not have to upload any paper documents. Another example is pbb Deutsche Pfandbriefbank in Germany. In 2018, it established CAPVERIANT, a digital platform that brings together institutional investors and public-sector borrowers in Germany. The platform expanded to France in 2019. The pbb generally does not originate the loans it places with investors. In April 2021, Caisse des Dépôts (CDC), a French government-owned financial institution, acquired a 28.57% minority stake in CAPVERIANT. In March 2021, pbb also launched a digital customer portal for its commercial real estate financing customers as part of its drive to digitalize the customer and lending process workflow. In France, Crédit Mutuel Arkéa has experience with a wide variety of digital platform solutions. An example of an open banking platform and its potential applications in the real estate sector is the Treckea platform, which Arkéa initiated at the end of 2020 together with the housing constructor Trecobat. Treckea enables centralized monitoring of real estate projects, regardless of whether they involve property construction, purchase or renovation. The platform's basic goal is to enable everyone involved in the project – buyers, owners, banks, brokers, civil-law notaries, etc. – to share data and documents easily and thus save time. Treckea centralizes all phases of a real estate project and secures all shared information with blockchain technology. Key documents (construction plans, purchase and loan contracts, etc.) can be viewed simultaneously by all stakeholders, while sharing processes remain transparent and traceable. Borrowers can initiate disbursement processes faster, while contractors receive cash sooner. Accelerating the processes moves the real estate market forward and satisfies the demand for often urgently needed housing more quickly. In the longer term, the platform could be opened up to other banks, housing firms or project developers so that customers can mix and match a wide variety of services on a single platform.

## **CONCLUSION**

Digitalization is regarded as one of the most important future trends in the finance industry. In addition to the challenges wrought by digital transformation, technologies such as AI, cloud computing, DLT or platforms harbor many opportunities as well: AI makes it possible to derive valuable conclusions from an existing database and forecast future developments. The use of cloud technology contributes to greater efficiency and flexibility and thus creates the prerequisites for rapid adaptation to a constantly changing environment. The decentralized structure of DLT, the ability to tokenize assets and the automation of business processes through smart contracts can be utilized in various application scenarios – from security issuance all the way to automated payments and loan processes. With platforms, financial institutions abandon their role as central hub and become suppliers of products and services for customers.

Banks and thus covered bond issuers are already using or at least piloting many of the above technologies. Nevertheless, they require a suitable national technical infrastructure and somewhat tech-savvy customers. Regulatory requirements should not be ignored, either. However, regulators and legislators have responded to new trends and thus kept an open mind about innovative technologies such as AI or DLT. That means scenarios that would be hard to imagine under current laws might become reality in the foreseeable future. In addition, the European Commission has thrown its weight behind making Europe digitally stronger by 2030 as part of its digital compass. Under this initiative, EU member countries are required to dedicate at least 20% of their spending from the Recovery and Resilience Facility to the digital transition.

In light of these developments, it is almost essential for financial institutions to take a close look at the new technologies. One possible benefit is greater efficiency in their internal structures. However, they may also gain the ability to enter new markets and play different roles across industries. By cooperating with fintechs, they can help drive their own digital progress and develop new products and services outside of conventional business models in order to address the relentless pressure to be ever-more profitable.

## **1.10 GLOBAL AND CEE COVERED BOND MARKETS**

By Colin Chen, DBS & Chairman of the ECBC Global Issues Working Group, Richard Kemmish, Consultant, Jacek Kubas, EBRD, Rodger Rinke, LBBW and Maureen Schuller, ING Bank N.V.

### **THE MAJOR THEMES AND MARKET DEVELOPMENTS**

#### ***Market development***

The COVID-19 pandemic clearly made its mark on global covered bond markets in 2020. Covered bonds proved to be a reliable financing instrument despite the financial turmoil with risk premiums for covered bonds in most jurisdictions returning to pre-crisis levels within six months. In addition, the covered bonds primary market remained open for the refinancing of banks when market volatility was the worst. Despite continued demand from investors, issuance activity of publicly-placed covered bonds was considerably down compared to prior years and recorded the weakest activity of the past five years. Ample liquidity and measures of central banks and regulators had a decisive influence, which is continuing to make itself perceptible on the market. At the same time, the measures fuelled the issuance of own-use or retained covered bonds for refinancing purposes with central banks beyond European borders during the recent crisis.

Based on EMF-ECBC data, the total volume of new issues of investor-placed covered bonds by issuers from non-EUR countries fell by 21% last year to the equivalent of EUR 254 bn. If only benchmark issues are taken into account, the decline is slightly higher. Nevertheless, the importance of non-EUR countries for the global covered market increased last year, as the Euro area recorded an even higher decline in market-placed issuance activity.

With regard to non-EUR countries, the majority of jurisdictions recorded a decline in the issuing volume of investor-placed covered bonds. Exceptions were South Korea, Denmark, Switzerland and Norway, where an increase in publicly placed covered bond issues was reported. South Korea also recorded new entrants to the covered bond issuer community as well as contributing to the count of ESG covered bond volumes. Canadian issuers were also very active with issues, but shifted to issuing retained covered bonds in the course of the year. For many of the non-EUR countries, the decline in issuance volume has been offset by the surge in deposits.

Looking at issuers from the CEE region, where issuers often started with covered bond issues in local currency followed by the first EUR-denominated (sub-)benchmark issues, the Czech Republic and Hungary recorded significant increases in covered bond issues, but these were exclusively retained issues. There were no public issues. In contrast, other Eastern European covered bond markets such as Poland or Romania recorded no or significantly lower covered bond issuance activity last year. Slovakia had dominated the covered bond market in Eastern Europe in 2019, bringing out three newcomers in the benchmark format. Slovakian issuers continued to be active in 2020, but to a lesser extent. In addition, Estonia made its entrance as a debut jurisdiction, with two issuers making their debut there.

The short-term future development is considered to be mixed. Due to the existing liquidity at banks, issuance activity on non-EUR-markets will be restrained. However, the expected recovery of the global economy in 2021, the normalization in deposits together with the expiry of central bank intervention and an accompanying recovery in mortgage lending may provide further momentum. General credit growth and legal and regulatory developments should also benefit covered bond issues in new markets from 2022. However, high deposit holdings at banks are likely to reduce the need for wholesale funding and thus the issuance of covered bonds.

Non-EUR covered bonds continue to be highly appreciated by investors, backed by ultralow interest rates in major economies, which push investors to look for higher yields outside more established markets. Non-EUR currencies typically involved in issuances would include DKK, CHF, GBP and USD, and we believe that market conditions will remain supportive for covered bonds in new jurisdictions in the next few years.

### **Regulatory developments in the CEE region**

While covered bonds are a well-established instrument in advanced markets, the European Bank for Reconstruction and Development ("EBRD" or "the Bank") has a pioneering role in introducing them in its countries of operations. The Bank does this in its typical fashion of combining policy engagement to create the requisite legal and regulatory framework, together with significant investment.

Legal reform support by the EBRD includes, among others, the development of new covered bond legal frameworks in the Central and Eastern European (CEE) region. Covered bond issuance across the European Union, including the CEE region, has primarily been regulated at national level. However, the adoption of the Directive (EU) 2019/2162 of the European Parliament and of the Council on the issue of covered bonds and covered bond public supervision and amending Directives 2009/65/EC and 2014/59/EU ("the Directive") on 27 November 2019 with the requirement to transpose the Directive to the national laws by July 2021, has created an overarching framework that enables a more integrated covered bond market in the European Union. Since the Directive has a direct impact on the CEE market, the Bank has already worked with the authorities on establishing or updating the relevant regulatory regimes in Poland, Romania, and the Slovak Republic, while reforms are ongoing in the Baltic States, Croatia, Bulgaria, Georgia, and Ukraine.

Even though the covered bond market in the CEE region is still nascent, the issuance of covered bonds in this region is rapidly increasing since the EBRD's involvement. To date, the EBRD has invested more than EUR 750 mn in covered bonds across its regions, including Greece, Hungary, Latvia, Poland, Romania, the Slovak Republic and Turkey. The largest engagement financially so far has been the EUR 385 mn covered bond in the Slovak Republic, which, due to its size, is called a "semi-benchmark" covered bond.

### **Global developments in light of the Basel III reforms**

In December 2017 the Basel Committee on Banking Supervision (BCBS) finalised its post-crisis regulatory reforms, which provide for the preferential risk-weights for covered bonds on a global level. The Basel-III reforms (often dubbed as Basel IV) had an initial application deadline of 1 January 2022, but due to the COVID-19 outbreak have been postponed until January 2023.

#### **The Basel III reforms on covered bonds**

##### ***Definition of covered bonds***

Covered bonds are defined as bonds issued by a bank or mortgage institution subject by law to special public supervision designed to protect bondholders. Bond proceeds must be invested conform the law in assets that are capable of covering claims attached to the bonds during their term. In the event of a failure of the issuer these proceeds would be used on a priority basis for the (re)payment of the principal and accrued interest.

##### ***Asset eligibility***

The eligible cover assets are restricted to:

- > Claims on/guaranteed by, sovereigns, their central banks, public sector entities or multilateral development banks;
- > Claims secured by residential real estate with an LTV of 80% or lower that meet the applicable requirements on e.g. legal enforceability, the claim of the bank over the property and the ability of the borrower to pay;
- > Claims secured by commercial real estate with an LTV of 60% and lower that meets the applicable requirements;
- > Claims on banks that qualify for a 30% or lower risk weight up to 15% of outstanding covered bonds.

Additional collateral may also include substitution assets and derivatives entered into for the purpose of hedging risks related to the covered bond programme.

### ***Overcollateralisation***

The nominal overcollateralisation should be at least 10%. Where national legislations do not provide for a 10% minimum overcollateralisation the issuing bank should regularly disclose that the 10% requirement is met in practice.

### ***Disclosure requirements***

For covered bonds to be eligible for preferential treatment, the banks investing in the covered bonds should be able to demonstrate that it receives (at least semi-annually) portfolio information on at least;

- > The value of the cover pool and the outstanding covered bonds;
- > The geographical distribution and type of cover assets, loan size, interest rate and currency risks;
- > The maturity structure of the cover assets and covered bonds;
- > The percentage of loans more than 90 days past due.

> FIGURE 1: RISK WEIGHT TREATMENT FOR EXPOSURES TO RATED COVERED BONDS

<b>External rating</b>	<b>AAA to AA-</b>	<b>A+ to A-</b>	<b>BBB+ to BBB-</b>	<b>BB+ to B-</b>	<b>Below B-</b>
Basel III (reformed)	10%	20%	20%	50%	100%
Basel III (current)	20%	50%	50%	100%	150%
CRR (current)	10%	20%	20%	50%	100%

Source: Basel Committee on Banking Supervision, European Commission

Several countries outside Europe have published their (draft) proposals translating the Basel III reforms into national law. Not all these countries intend to provide for a preferential risk weight treatment of covered bonds. Singapore and South Korea do plan to implement the Basel requirements for such preferential treatment. Also Australia aims to introduce favourable risk weights, but only for rated covered bonds. In Canada, the Office of the Superintendent of Financial Institutions (OSFI) intends to adopt the asset eligibility and disclosure requirements for covered bonds of the Basel reforms, but with a minimum overcollateralisation requirement of 5%. Nonetheless, covered bonds will under the OSFI's draft proposals still receive a similar risk weight treatment as (unsecured) bank exposures. In New Zealand, the banking prudential requirements of June 2021 do not make reference to separate risk weights for covered bonds at all.

### ***EU third country equivalence***

Meanwhile, in Europe the equivalent treatment of covered bonds issued by non-EEA credit institutions was left outside the scope of the Covered Bond Directive and the amendments to Article 129 of the CRR. Instead, the European Commission will submit a report on third country equivalence to the European Parliament and Council by 8 July 2024 at the latest. This report may be accompanied by a legislative proposal on whether or how an equivalence regime should be introduced.

### **The LCR treatment of covered bonds**

#### **Impact of the EU Covered Bond Directive on the LCR treatment of third country covered bonds**

Third country covered bonds are already eligible as level 2a high quality liquid assets under the EU LCR delegated regulation if they meet the applicable requirements. On 27 October 2020, the European Commission proposed certain amendments to the LCR delegated regulation, among others to align the LCR regulation

with the amended Article 129 of the CRR and the Covered Bond Directive. These amendments should become applicable per 8 July 2022 and may impact third country covered bonds as follows:

- > The (semi-annual) transparency requirements of CRR Article 129(7) are replaced with the more detailed (quarterly) investor information requirements of Article 14 of the Covered Bond Directive.
- > The valuation requirements of the Covered Bond Directive in Articles 6(2), 6(3)(a) and Article 6(5) should be met where the pool comprises loans secured by immovable properties. These will replace the current CRR Article 208 and Article 229(1) valuation requirements.
- > The asset eligibility criteria for third country covered bonds remain virtually the same as they already excluded securitisation notes as eligible assets, but the Article 129(1)(c) minimum rating requirements for exposures to credit institutions will become more lenient.

The LCR amendment proposals did not include any changes to the minimum credit quality step (CQS) 1 requirements for third country covered bonds, nor to the overcollateralization requirements for these covered bonds. The asset coverage requirement remains unchanged at least 7% in excess of the amount necessary to meet the claims attached to the covered bonds. Where the issue size of the covered bonds is at least EUR 500 mn (or the equivalent amount in domestic currency), they are subject to a minimum 2% coverage requirement.

The amendment proposals also did not further discuss the required equivalence of the supervisory and regulatory arrangements of third countries to those applied in the EU. We do believe though, that the mandatory special supervision requirements from the Covered Bond Directive may well become the reference for the equivalence assessment of third country supervisory and regulatory arrangements per 8 July 2022.

## **REGIONAL DEVELOPMENTS**

### **Non-EU**

South Korea and Singapore are pioneers in issuing covered bonds in the developed part of Asia. Despite the healthy share of customer deposits, covered bonds offered issuers an alternative source of funding, diversifying their access to investors. It also helps manage asset liability mismatches. In 2018, Japan followed, but issuers had to rely on a contractual structure in the absence of a national covered bond law. Regarding currencies, issuance activity has been dominated in EUR given the depth of the investors in Europe. In 2020, issuers from all three mentioned countries have issued in the EUR market and placed an overall volume of EUR 4.9 bn, including two newcomers. The overall share of Asian issuers on the market for EUR benchmark covered bonds increased to 5%. In addition, these issuers benefited from satisfying the requirements to having the ECBC Covered Bond Label for all their issuances. In addition, Korea was responsible for introducing to the market ESG covered bond issuances with all three EUR benchmark issuers having issued under this format. The COVID-19 pandemic especially drove issuance activity from South Korean banks, which placed the majority of the mentioned volume. In the current year, the issuance has been more subdued – one inaugural issuance from Korea was seen on the market at the time of writing. Issuance activity could remain restrained in 2021 due to high deposit levels and limited funding needs in foreign currencies, despite positive regulatory development, although we do anticipate to see issuance volumes start to pick up in the second half of 2021. In Singapore, the regulator recently increased the asset encumbrance limit to 10% from 4% of the issuer's total assets which could pave the way for increased issuance activity.

Apart from activity of the developed part of Asia (Singapore, Japan and Korea), it can be expected that covered bond issuance could become an important funding source of Asian banks with housing finance needs growing and with covered bonds being able to mobilize private capital for mortgage financing, especially in emerging Asia. Nevertheless, the non-existence of legal frameworks remains the major hurdle. Here, the EU Covered Bond Directive and the harmonization of national covered bond legislation in EU member states could serve as a basis for legislative developments outside the EU for third country equivalence negotiations. Banks from China have flagged interest in dual-recourse issuance due to funding diversification away from deposits and securitization.

Discussions continue on progressing and developing a viable issuance framework. In India, there are also considerations regarding the use of covered bonds for the mortgage financing needs. Likewise, discussions have been on-going.

In addition, outside Europe, Australia, Canada, New Zealand, South Korea and Singapore have implemented their respective national covered bond legislation in recent years. In 2020, the primary market activity of issuers from Australia and New Zealand has been significantly lower compared to prior years. Australian issuers used non-EUR denominated issuances during the COVID-19 crisis, but did not appear on the EUR market. The same is true for issuers from New Zealand. At the time of writing, one issuer from New Zealand entered the EUR-market in 2021 with the first appearance from this jurisdiction in more than two years. For Canadian issuers covered bonds played an important role in term-repo operations with the bank of Canada, including retained covered bonds supported by temporarily lowered asset encumbrance restrictions for covered bonds. Post the height of the COVID-19 pandemic and given the improving state of the economy, the retained covered bond repo operations have been revoked. The overall issuance activity of Canadian issuers in 2020 more than doubled, while Canadian issuers played an important role in the EUR primary markets during first months of the pandemic. In the meantime, the acceptance of the covered bond product continues evidenced by the growing interest from Canadian second-tier banks, both in the domestic market and in the EUR market.

In the South American region, there have been some covered bonds issues in the past, which were predominantly based on contractual agreements due to the lack of a dedicated legal frameworks. Brazil was the first country to initiate legislation. Up to now, banks only started issuing "letra imobiliária garantida" (LIG) as private domestic placement. Recently, the Brazilian Securities and Exchange Commission permitted public placements for LIGs on the domestic market. For international issuances, the market still needs legal and regulatory clarification.

On the African continent, covered bond issues have not yet been possible, despite considerations in countries such as Morocco or South Africa. Short-term changes are not expected here.

#### ***CEE region***

The size of the covered bond markets in CEE and SEE is significantly smaller than the larger EU markets of Germany, Denmark, France and Spain. In CEE, only three countries (Hungary, Poland and the Slovak Republic) have any meaningful number of covered bonds outstanding and the CEE in total represents substantially less than 1% of the total covered bond market. This number had been significantly lower prior to the EBRD's engagement.

Taking into account this discrepancy and acknowledging the importance of having long-term funding available in local capital markets, the EBRD remains engaged in a series of covered bond legal and regulatory reforms in its regions. The aim of these reforms is to align the applicable frameworks with widely accepted standards; render them more transparent, efficient, and understandable to investors, including foreign investors, and to rating agencies; and remove barriers hindering the use of covered bonds for finance.

As of August 2021, the following reforms have been completed by EBRD:

- > **Poland:** In early 2016, the EBRD completed a technical cooperation ("TC") project with the Ministry of Finance in Poland. The project focused on the development of a new covered bond legal framework based on best practices. The Local Currency and Capital Markets Development ("LC2") team at the EBRD facilitated the reform by reviewing and providing comments and recommendations for updating the Act on Covered Bonds and Mortgage Banks from 1997. This work, initiated by the Polish Mortgage Credit Foundation and mortgage banks, resulted in the amendment of the Act on Covered Bonds and Mortgage Banks combined with associated changes in the bankruptcy law. This led to the creation of the market, including domestic and international benchmark issuance.
- > **Romania:** The EBRD played a significant advisory role to the new covered bond law adopted by the Romanian Parliament in September 2015. In Romania, there had not been a covered bond issuance since

the covered bond law of 2006 was adopted. The new law conforms to: (i) the definition of covered bonds as per EU legislation, including the Capital Requirements Directive and the UCITS Directive; and (ii) the “Best Practice” supervisory guidelines as published by the European Banking Authority (EBA). According to a comparative analysis, published by the ECBC in 2018, Romania’s legal framework aligns with the EBA’s best principles, thus enhancing investor confidence in the market.

> **Slovak Republic:** The EBRD completed a TC project in the Slovak Republic in 2017, updating the regulatory regime surrounding covered bonds. The previous covered bond law had supported the development of the covered bond market to a certain extent, but it presented many issues that hindered further market growth. The market was confined to sub-benchmark bonds purchased by domestic investors, typically other banks; and it was difficult for banks to structure internationally acceptable benchmark-sized transactions. Out of the 17 best practices identified by the EBA, the Slovakian covered bond framework was only fully compliant with six. The reform created the legal foundations for covered bonds with amendments to the existing law and incentivised a vibrant local covered bond capital market.

> **Baltic States (Estonia, Latvia, Lithuania):** In the spirit of pan-Baltic cooperation mandated by the 2017 Memorandum of Understanding signed by the three Ministries of Finance, the covered bond reforms in the three Baltic countries will endeavour to be part of a coordinated Baltic covered bond framework. With this project, the European Commission’s Structural Reform Support Service, together with the EBRD, supports the Baltic States with the introduction of a pan-Baltic covered bond framework, contributing towards well-functioning and larger capital markets in the region, opening up long-term funding options for banks, and increasing the level of lending to economies. It is envisaged that each Baltic State will have its own covered bond law and secondary regulations, and so the pan-Baltic covered bonds issuance will be achieved on the basis of the overall framework. The interim report on the pan-Baltic covered bond framework was published in March 2019 for public consultation; currently, the comments received are in the process of being analysed. In Estonia, the law on covered bonds was adopted by the Parliament in February 2019 followed by the issuance of covered bonds in 2020 and 2021. A very positive development was the adoption of the covered bond law by Latvia in the first half of 2021; while the law in Lithuania is expected to be submitted to the Parliament soon.

The following reforms are on-going:

- > **Croatia:** The EBRD is working with the Ministry of Finance, the Croatian National Bank (CNB) and the market’s supervisor, HANFA. The working group led by the Ministry of Finance is working on finalising the draft legislation.
- > **Bulgaria:** The EBRD is working with the Ministry of Finance on the introduction of a Covered Bond Legal and Regulatory Framework in Bulgaria. Even though Bulgaria has an existing Law on Mortgage Bonds, the current market is not very well developed in the country. One of the main reasons we do not see many issuances of mortgage bonds in Bulgaria is that the law is not aligned with the Directive. The draft law was developed in 2021 and went through public consultation, and is awaiting its introduction to the parliament.
- > **Ukraine:** The EBRD is working to develop in parallel laws for securitisations and covered bonds in Ukraine in cooperation with the National Securities and Stock Market Commission. This is a long-term project aligned with broader developments of the capital markets.
- > **Georgia:** The EBRD has partnered up with the National Bank of Georgia (NBB) in assisting them in their efforts to create a new covered bond framework. The Bank, together with the National Bank of Georgia, has developed the draft legal and regulatory framework that was discussed with market participants and is being discussed by the Georgian authorities with the view of adopting the framework still in 2021. One of the key focus areas will be how to position the current nascent market to becoming a more attractive place for investors.

### **In Summary**

During the COVID-19 related economic uncertainties, covered bonds continued to prove their added value in both established markets and new regions. The growing use of covered bonds outside Europe and within the CEE markets make good examples. Even though central bank liquidity and deposit growth have dampened the issuance volumes of covered bonds across the globe since the start of the COVID-19 crisis, primary markets did remain open to issuers, even when market volatility was at its worst. Investor interest in covered bonds from non-EU and CEE regions is generally solid, particularly thanks to the extra yield these bonds traditionally offer versus the more established European markets. Meanwhile, the EU Covered Bond Directive does form an important milestone to the further development of covered bond markets outside Europe and within the CEE. Not only is the Directive a leading reference point to the drafting of new legal frameworks, it will also likely be vital to the third country equivalence discussions within the EU. These developments will only continue to draw market attention to new covered bond jurisdictions in the coming years.

## **1.11 EXTENDABLE MATURITY COVERED BONDS – THE NEW NORM**

By Elena Bortolotti, Chairwoman of the RAA WG & Barclays and Joost Beaumont, ABN AMRO

Just a few years ago, extendable maturity covered bond structures were the exception rather than the rule. However, analysts and rating agencies increasingly focused on liquidity risks and thus refinancing risks in the wake of the financial crisis. By making structural adjustments to their programmes, issuers were able to find ways to mitigate the related risks. In addition to soft bullet structures, where extension periods are typically 12 months, some issuers implemented conditional pass-through structures with much longer maximum maturities.

However, like many other structural features in covered bond programmes, it has become clear that the features triggering the extension or the consequences of an extension were different across jurisdictions and sometimes even amongst programmes from the same country. Even though it was not always evident if these structural differences directly translated in issuers having to pay a premium, it has become clear that there was a need for harmonization across jurisdictions when it came to extension triggers. In this note, we discuss the different extension formats, also in the light of the final text of the Covered Bond Directive. Furthermore, we examine the motives of issuers on the one hand and the reactions of investors on the other as well as issuance trends.

### **What are the main difference between the covered bond redemption formats?**

The most fundamental idea of covered bonds is safeguarding a full and timely repayment even in the case of issuer's default. Once the issuer ceases to exist, the cash-flow stemming from a separate portfolio of assets is used to cover all claims due to bondholders. The two most significant sources of risk threatening the ability to satisfy the claims are (i) credit default risk, which potentially leads to an over-indebted cover pool and (ii) market risk – first and foremost in the form of liquidity risk – which potentially leads to a sufficiently large cover pool, which, however, is no longer able to satisfy claims due to illiquidity.

In the past, the rating agencies and other market participants assumed that, following issuer default, the cover pool administrator could easily monetise the assets in the cover pool either by disposing parts of the cover assets or in an indirect way, i.e. by bundling them into an asset-backed security (ABS) or – if applicable – by using the refinancing register. Some covered bond structures may also be able to raise new debt either in a technically "unsecured" way or even in the form of covered bonds. In particular against the backdrop of uncertainty regarding the functionality and the efficiency of these tools, it is particularly important that the cover pool administrator is equipped with a broad set of instruments so he is free to pick the most efficient one.

In cases involving hard bullet structures, issuers try to enhance the effectiveness of the tools by regularly calculating pre-maturity tests or by maintaining a certain amount of liquid assets in the cover pool – a costly exercise for issuers since liquid assets usually come with a negative carry. By extending the maturity, the liquidity challenge is handled differently. This can be achieved by either using soft bullet structures or pass-through structures. Soft bullet structures have a limited extension period of usually one year. However, since the soft bullet timeframe might still turn out to be too short, the idea of pass-through aims to completely eliminate any refinancing risk by eliminating pressure to sell assets at the expense of a maximum timeframe for the payment deferral.

Below, please find the definition of hard, soft and conditional pass-through covered bonds provided by the ECBC and available on their website.

- > **Hard bullet covered bonds:** are repaid on the scheduled maturity date. Neither the documentation nor the legal framework contain provisions for a maturity extension. Failure to repay the final redemption amount of a hard bullet covered bond on the scheduled maturity date could trigger the default of the relevant covered bonds and, possibly, the liquidation of the cover pool depending on the respective national insolvency rules.

- > **Soft bullet covered bonds:** Soft bullet covered bonds have a scheduled maturity date (SMD) and an extended maturity date. If objective, predefined and transparent criteria have been met, the maturity of a soft bullet covered bond can, and in some cases, will automatically, be prolonged up to the extended maturity date. During the extension period, the covered bond may be redeemed using cover pool proceeds. Failure to repay a covered bond on the extended maturity date triggers the default of the relevant extended covered bonds (unless multiple extensions are allowed).
- > **Conditional pass-through covered bonds (CPTCB):** Conditional pass-through covered bonds have a scheduled maturity date and an extension mechanism. By itself, the failure to repay the CPTCB on the scheduled maturity date does not lead to an acceleration of the covered bond but to an extension of the maturity date of this and potentially other relevant covered bonds. The extension requires that objective, predefined and transparent criteria are met. In such circumstances the maturity of a CPTCB can be prolonged to the extended maturity date, which is typically linked to the maximum legal maturity of the underlying assets. During the extension period, cash-flows received or generated from the cover assets will be distributed to the covered bonds investors. Regular attempts are in general made to sell the cover pool assets to redeem the covered bonds. Such sales are subject to predefined criteria intended to protect the interests of all investors under the same programme. In certain jurisdictions and programmes, CPTCB may feature an initial soft bullet extension."

### **Extendable maturity structures**

As a result of the growing use of extendable maturity structures, regulators have increasingly turned their attention to them. The main questions that were raised were to what extent extendable maturity structures influence the dual recourse principle of covered bonds and the conditions of triggering an extension. For example, if the maturity extension were invoked too early, recourse to the issuer could be cut off too quickly, even though the issuer is still solvent. Moreover, if extension periods are too long, recourse to the issuer's insolvency estate is considerably delayed. We examine extendable maturity structures in the light of the Covered Bond Directive and how some Member States have started transposing maturity extension features.

The Covered Bond Directive introduced the requirement for each Member State to identify clear and objective triggers that would cause covered bonds to extend. At the time of writing, only a handful of Member States had transposed the Covered Bond Directive.

In most jurisdictions, the conditions for a maturity extension are set out in the base prospectus and related final terms. So far, statutory requirements exist only in Poland and Slovakia as well as Denmark, Latvia and Germany who have recently transposed the Covered Bond Directive.

In general, a distinction can be made between two types of covered bond structures.

#### **a) Group 1: Issuer and cover pool constitute legally independent entities**

These are normally covered bond structures with a special purpose vehicle acting as guarantor of the covered bonds. Several requirements have to be met before the maturity can be extended. First of all, non-payment of the covered bonds by the issuer on the scheduled maturity date will automatically trigger an issuer event of default. The payment obligation then passes to the guarantor in connection with a notice to pay/guarantee enforcement notice. If the guarantor does not have sufficient liquidity to repay the covered bonds on the original date (scheduled maturity date), payment is deferred to the extended maturity date. This specific approach should comply with the requirements of the Covered Bonds Directive since on one hand, the decision to extend the maturity is not made at the sole discretion of the issuer alone, but ultimately depends on the guarantor's ability to pay. The issuer not meeting its obligation to pay the covered bond on the final maturity date will trigger an issuer event of default. Accordingly, the maturity extension does not focus on the issuer's ability to survive, but on securing the largest possible repayment for investors. Jurisdictions that use this issuance model include Italy, the United Kingdom, the Netherlands, Australia, New Zealand, etc.

### **b) Group 2: Issuer and cover pool constitute the same legal entity**

These are generally on-balance-sheet structures with ring-fencing of the cover pool in a dedicated register. In addition to universal bank structures, specialist credit institutions and French SFHs and SCFs are included in this group. Jurisdictions that use this model include: Germany, Spain, France, Norway, Poland, Denmark, Greece, Romania, etc. Many of these jurisdictions in the past were issuing exclusively hard bullet covered bonds however, as they start transposing the Covered Bond Directive, we have noticed that the National Regulators have suggested that extendable maturity covered bonds may also be issued or as the case of Germany all Pfandbriefe will feature a maturity extension.

Unlike in the jurisdictions under group 1, the conditions for a maturity extension for these structures were much more general. For example, under the French programmes the only requirement for an extension previously was that the issuer is unable to pay on maturity. The biggest difference, however, concerns the issuer event of default. In most cases, the documentation notes that a maturity extension does not lead to a default of the issuer. Conversely, this would mean that the maturity can be extended to avert or postpone an issuer default. Accordingly, an issuer event of default would not occur until non-payment of the due amount on the extended maturity date or non-payment of interest. Programmes with an extension triggered at the discretion of the issuer are not compliant with the provision of the Covered Bond Directive.

In Germany, the new Pfandbrief Act which has already transposed the Covered Bond Directive, clearly states that one of the tools that will be available to the cover pool administrator is the ability to extend the covered bonds for up to 12 months if she/he elects to. This makes it clear that the extension falls outside the issuer's scope of influence. Meanwhile in France, the new law stipulates that maturities can only be extended if issuing entities are insolvent or in resolution or when the regulator decides to do so in case the 180 day liquidity coverage requirements has been breached. This makes the French law also compliant with the new Covered Bond Directive.

At the time of writing circa 15 Member States have either implemented the new Covered Bond Directive or shared draft laws on how the Covered Bond Directive will be implemented. It is interesting to see that all Member States have suggested that they will consider allowing issuers to issue covered bonds with extendable maturities. How the extension may be triggered varies from regulator or administrators discretion, to automatically being triggered upon non-payment of the covered bonds at their scheduled maturity date.

### **Conditional pass-through structures are losing momentum**

It has been 8 years since we saw the first conditional pass-through structures being introduced in the covered bond benchmark universe. NIBC was the pioneer issuing a EUR 500mn 5Y benchmark covered bond in October 2013, followed by further benchmark issues on a yearly basis. While for the first two years, conditional pass-through structures were widely discussed but remained a niche product, it was in 2015 that this redemption format started to gain momentum. Additional issuers took the conditional pass-through path with UniCredit SpA, Van Lanschot Bankiers and Aegon Bank entering this market. Meanwhile, Banca Monte dei Paschi di Siena converted its programme from soft bullet to conditional pass-through and Banca Carige followed in 2016 with a new CPT programme. CPT programmes can also be found in Portugal (Novo Banco and Caixa Economica Montepio Geral), in Austria (Anadi Bank) and in Australia with Bank of Queensland. In 2017, the Greek Banks also started issuing covered bonds off their CPT programmes. More recently however, following the introduction of harsher haircuts introduced by the ECB for CPT covered bonds as well as their non-eligibility for the third covered bond purchase programme (CBPP3), we have seen issuers, like Aegon, NN Bank, and Achmea Bank switching to soft bullet programmes. Overall, there are today circa 20 covered bond programmes, across jurisdictions, structured in conditional pass-through format.

In CPTCB programmes in general, following an issuer default, a particular covered bond will only become pass-through once a covered bond reaches its SMD and the available cash is insufficient to fully redeem the

bond. Other outstanding covered bonds will not turn into pass-through covered bonds as long as they are paid as scheduled. It goes without saying, that the switch to pass-through on the SMD does not prevent the cover pool administrator from trying to sell assets in order to improve the liquidity of the cover pool and, in doing so, making the switch to pass-through less likely. The maturity extension and switch to pass-through aims to reduce refinancing risk, i.e. the risk of fire-sales. In order to generate sufficient cash flows to repay the covered bonds due, the cover pool administrator is empowered to sell a randomly selected part of the asset portfolio as long as the conditions of the amortisation test are met.

Following issuer default, the amortisation test has to be passed. The amortisation test is designed to ensure that cover assets are sufficient to repay the outstanding covered bonds. Key aspects in that respect are the level of overcollateralisation in the programme as well as provisions to address transaction risks like servicing. If the test is failed, the commonly used structure is that all covered bonds becoming pass-through. In this case, the covered bond company will be required to use all funds available to redeem all covered bonds on a pro rata basis, while interest continues to accrue on the unpaid part of the covered bonds.

An important feature in the CPTCB is the minimum overcollateralisation (OC), which is needed to allow for the programme to switch to pass-through. Shortage of collateral, which could arise from paying administrative costs as well as covering potential credit losses, would otherwise instantly trigger a failure of the amortisation test and an acceleration of payments to bondholders. This is the reflection of the fact that cover pool credit risk is the key remaining source of loss in the cover pool asset-liability-management. In order to eliminate market risk completely, the legal final maturity is extended to beyond the maximum maturity date of the cover pool assets. The extension period usually ranges from 31 years to 38 years, depending on the respective program documentation.

The increased number of CPT programmes in the past few years has led to a relatively broad diversity of structures, for example showing different extension triggers and procedures following the failure of the amortisation test. While within countries like the Netherlands, CPT structures are relatively homogenous, they are less homogenous in Italy, Greece and Portugal and differ quite substantially between countries. Hopefully, the transposition of the new Covered Bond Directive will address the lack of standardised structures in the market.

> FIGURE 1: CONDITIONAL PASS-THROUGH FORMAT KEY FEATURES

Feature	Australia	Austria	Cyprus	Greece 1	Greece 2	Italy 1	Italy 2	Netherlands	Poland <sup>1</sup>	Portugal
1 Extension is an Issuer Event	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓
2 Extension triggers Cross-Default	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗
3 ACT Test or equivalent extends all Covered Bonds to pass-through	✓	✓ <sup>2</sup>	N.A.	✓	✗	✓	✗	✓	✓	N.A.
4 Breach of Amo Test is an Event of Default	✗	✗		✗	✓	✗	✓	✗	✗	N.A.
5 Issuer Insolvency	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Notes: 1. Polish Covered Bonds are subject to 12 months extension; if certain tests are breached, then all Covered Bonds become CPT; 2. Assuming that all Covered Bonds are issued under the same programme and have the same terms and conditions in relation to a breach of ACT Test.										

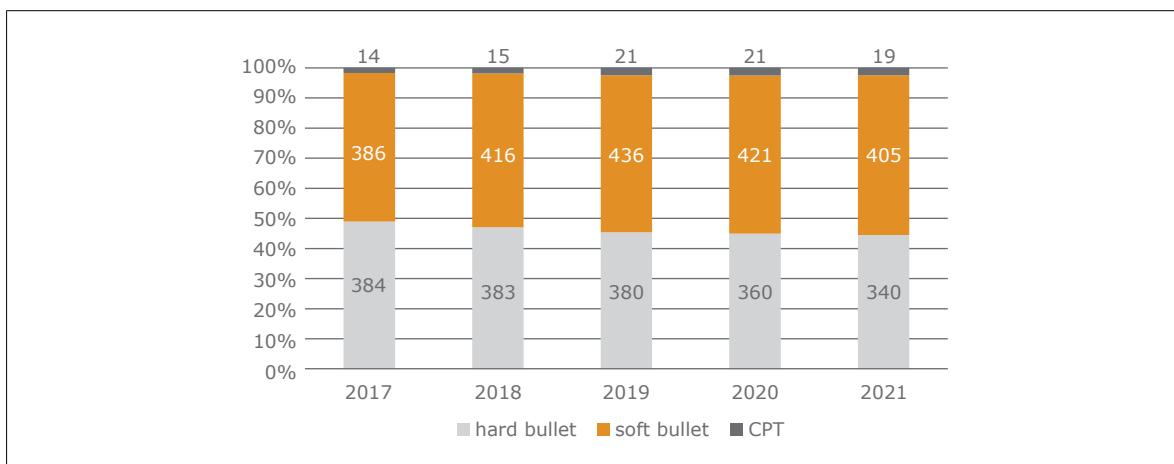
Source: Base Prospectus, A&O

In June 2021, 25 jurisdictions have covered bonds with extendable maturity structures outstanding in the iBoxx € Covered Index. The total amount of soft bullet and conditional pass-through covered bonds outstanding in those countries is EUR 424bn as of June 2021.

### **Soft bullet covered bonds keep dominant position in covered bond market**

Soft bullet covered bonds became the dominant structure in the euro benchmark covered bond market a few years ago. They slightly increased their dominance in 2020 and during the first six months of 2021. Indeed, the share of soft bullet covered bonds in the iBoxx EUR benchmark covered bond index was 52.5% at the end of 2020, while this had risen to 53% by June 2021. This compares to a share of 49.3% at the end of 2017. In volume terms, the June 2021 index comprised EUR 405bn of soft bullet covered bonds, up from EUR 386bn at the end of 2017. Meanwhile, the share of conditional pass-through covered bonds (CPTCB) was 2.6% at the end of 2020, while this dropped slightly to 2.5% in the first half of 2021. Still, this implied a rise from a 1.8% share at the end of 2017. Consequently, the share of hard bullet covered bonds declined to 44.5% (or EUR 340 bn) in June 2021, down from 44.9% and 49% at the end of 2020 and 2017, respectively.

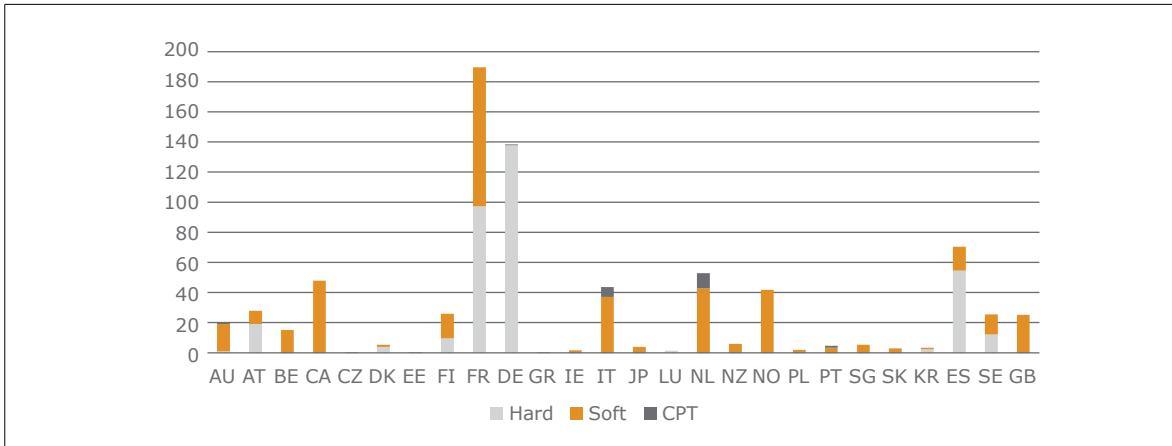
> FIGURE 2: OUTSTANDING COVERED BONDS IN iBOXX EUR COVERED BOND INDEX BY MATURITY STRUCTURE (% , WITH LABELS SHOWING AMOUNTS IN EUR BN, JUNE 2021 INDEX)



Source: Bloomberg, ABN AMRO

A breakdown by country shows that Germany and Luxembourg are the only countries with pure hard bullet covered bonds, although there is one structured CPTCB in Germany. Meanwhile, hard bullet covered bonds also still have a share of more than 50% of the total amount of euro benchmark covered bonds in Spain (78%), Denmark (73%), South Korea (71%), Austria (69%), and France (51%). However, more countries are likely to see a rise of covered bonds with extendable maturity structures when transposing the new Covered Bond Directive into national laws (see above the case for Germany). Therefore, covered bonds with extendable maturity structures are set to expand their dominance in coming years.

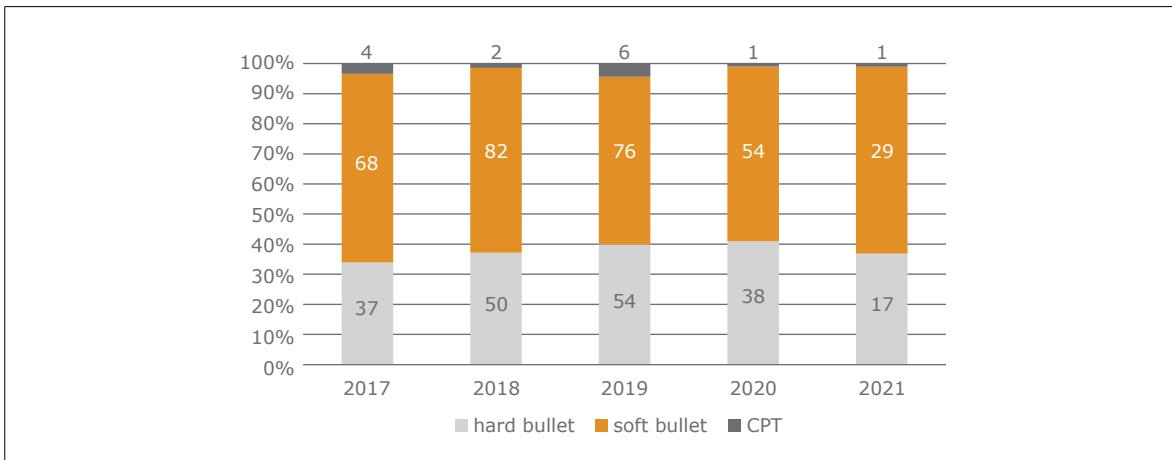
> FIGURE 3: VOLUME OF OUTSTANDING COVERED BONDS IN THE iBOXX INDEX BY COUNTRY AND MATURITY STRUCTURE  
(EUR BN, JUNE 2021 INDEX)



Source: Bloomberg, ABN AMRO

Turning to new issuance of euro benchmark covered bonds, the share of covered bonds with extendable maturities was 59% in 2020, while this was 63% during the first half of 2021. The majority consists of soft bullet covered bonds, as CPTCB remain a niche, while their share even declined in 2020 to 1.1% of total issuance (down from 4.4% in 2019). This largely reflects developments in the Netherlands where some CPTCB issuers have switched to soft bullet programmes (see above). As a result, new issuance of CPTCB from Dutch issuers will drop, likely reducing the share of CPTCB in the iBoxx index.

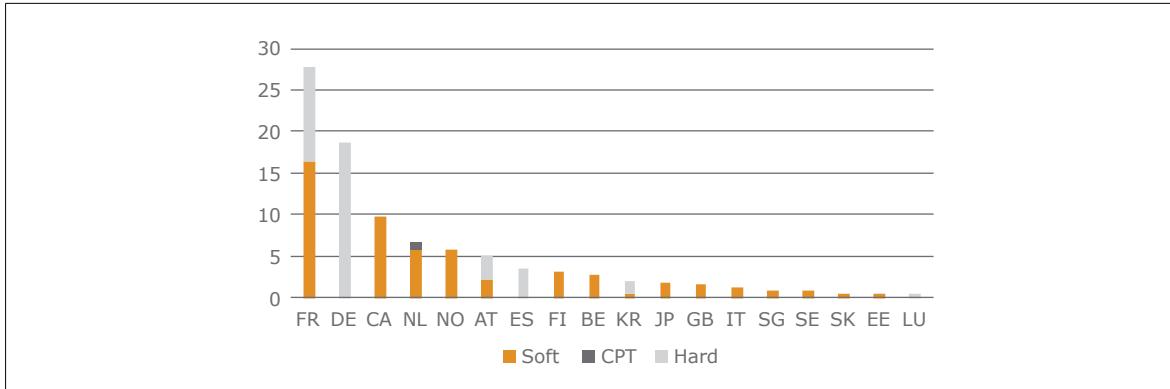
> FIGURE 4: NEW ISSUANCE OF EUR BENCHMARK COVERED BONDS BY MATURITY STRUCTURE (%), WITH LABELS SHOWING AMOUNTS IN EUR BN, AS OF END JUNE 2021)



Source: Bloomberg, ABN AMRO

The fact that the share of hard bullet covered bond in total issuance was still 41% in 2020 (and 37% in 2021) is because German issuers as well as French hard bullet issuers (e.g. CAFFIL, CFF and CRH) were relatively active in the primary market in 2020 (and 2021), accounting for 32% of total issuance in 2020 and 29% in H1 2021. However, this picture is expected to change in 2022 when the new Covered Bond Directive will become effective.

> FIGURE 5: NEW ISSUANCE OF EUR BENCHMARK COVERED BONDS BY COUNTRY AND MATURITY STRUCTURE IN 2020, EUR BN



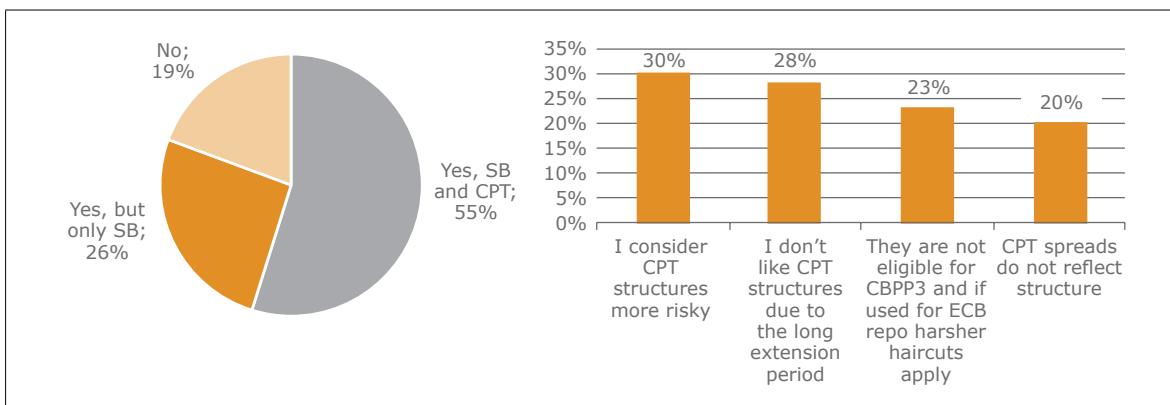
Source: Bloomberg, ABN AMRO

In terms of pricing, there seems not to be much of a spread difference between hard and soft bullet covered bonds, while CPTCB do trade at a premium. In the case of Dutch CPTCB, the premium was nicely visible when NN Bank issued a 10y soft bullet covered bond, while it also had a CPTCB with a similar maturity already outstanding. At the day of issuance, the spread difference was around 10bp.

#### **Majority of investors able to invest in extendable maturity structures**

This year's investor survey (see chapter 1.8) revealed that a vast majority of investors are comfortable to invest in covered bonds with maturity extensions. More than half of the investor base can invest in soft bullet covered bonds as well as CPTCBs, while 26% indicated only being allowed to invest in soft bullet covered bonds. Only 19% of investors that responded to the survey are unable to invest in covered bonds with maturity extensions. The fact that less investors are able to buy CPTCBs than soft bullet covered bonds likely explains to a large extend their price difference (as does the exclusion of the latter in CBPP3 purchases). The key reason for investors not to buy CPTCBs is that they see these bonds as riskier assets and not favouring the long extension period. As shown in the graph below right, harsher repo treatment at the ECB and the exclusion from CBPP3 are also mentioned as reasons to refrain from investing in CPTCBs. Lastly, the spread pick-up is for some investors not large enough, which could in fact imply that these investors can buy CPTCBs if the pick-up increases.

> FIGURE 6: DOES YOUR MANDATE ALLOW YOU TO INVEST IN COVERED BONDS WITH A SOFT OR CPT STRUCTURE?



Sources: ECBC

> FIGURE 7: WHY ARE YOU NOT ABLE TO INVEST IN CPTCBs?

Overall, the fact that most investors can invest in covered bonds with a maturity extension has probably gone hand in hand with the gradual rise of these structures in the covered bond indices. Given that the share will continue to increase in coming years, it seems fair to assume that the investor base will also continue to grow.

### **Conclusion**

Only a few years ago, extendable maturity covered bond structures were the exception rather than the rule. However, their market share has steadily risen, with extendable maturity covered bonds now being the majority in covered bond indices. Furthermore, the new Covered Bond Directive will likely solve the issue of large fragmentation in extension triggers across countries and programmes. Moreover, more countries have embraced the maturity extension structure when transposing the Covered Bond Directive into national law. As a result, soft bullet covered bonds, and to a lesser extent CPTCBs, will further enlarge their footprint. This will also likely lead to greater investor acceptance, although the vast majority of investors is already able to invest in covered bonds with maturity extensions.

## **1.12 LIQUIDITY AND TRADING VOLUME IN THE EU COVERED BOND MARKETS**

By Joost Beaumont, ABN AMRO, Jonny Sylvén, ASCB, Lars Ravn Knudsen, Finance Denmark, Steffen Dahmer, J.P. Morgan and Michael Weigerding, former Commerzbank

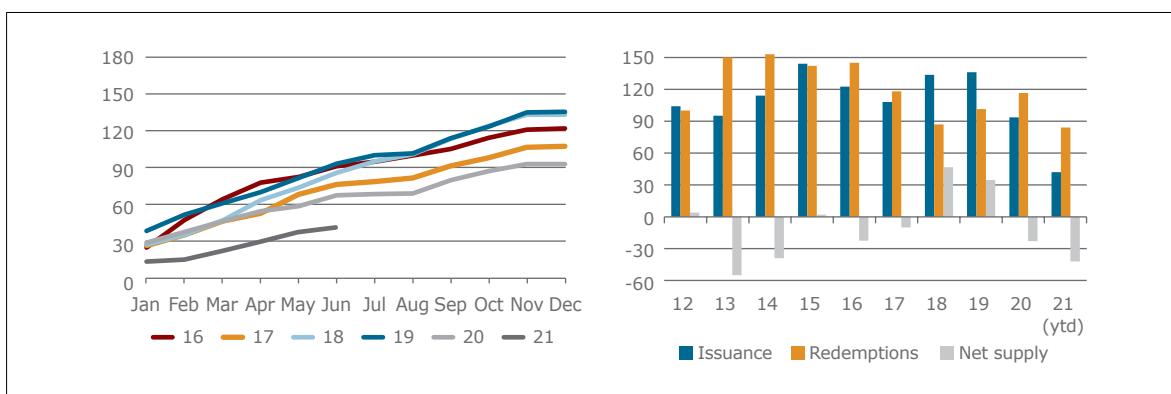
### **INTRODUCTION**

The international covered bond benchmark segment, which started as an interbanking market-making (head to head) market in the 90s, transformed during the crisis into a pure investor market-making market. A functional repo market constantly increases the liquidity of the Covered Bond market, as a consequence of which the Covered Bond benchmark market is one of the most significant and liquid market segments. Covered bonds are viewed in different ways: thanks to their nature and rating some view them as part of the rates world, others clearly see credit elements and consider Covered Bonds as the strongest product in the credit world.

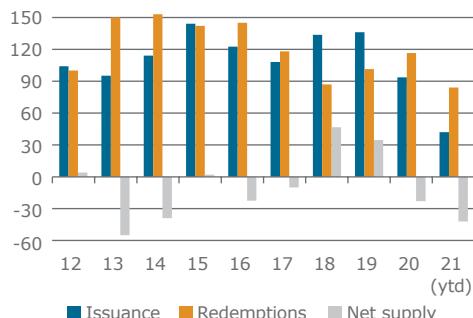
As is the case for any other market in the rates or credit world, the Covered Bond market faces regulatory requirements which result in a more prudent approach to trading books in terms of balance sheet allocation. In short, bank inventories have gone down and often only axed trading books are able and willing to show competitive prices and sizes to investors. Meanwhile, the market has started to shrink again following the outbreak of the COVID-19 pandemic, which can be largely related to monetary support measures by central banks. On top of this, the ECB's quantitative easing (QE) programme has absorbed a large part of freely floating covered bonds, which also has reduced liquidity.

We continue to see the trend that EUR 500 mn is becoming more and more the standard benchmark size for issuers, although issuers with larger annual funding appetites still favour a EUR 1bn deal or larger. In other markets such as GBP, issue sizes have increased, as more than half of new deals had a minimum issue size of GBP 1 bn from 2019 onward, up from GBP 500-750 mn before. Meanwhile, in USD's the "regS only" market often targets 600 mn (to match the regulatory important 500mn + EUR equivalent) while 144a or SEC registered deals are often larger than/or at least USD 1 bn. The Swedish or Danish Kroner Covered benchmarks can grow over time to a significant size often larger than in Euro or Dollar benchmarks. Obviously smaller benchmark volumes often lead to smaller secondary turnovers given that the various Covered Bond markets are dominated by a majority of buy and hold investors.

> FIGURE 1: ISSUANCE OF EURO BENCHMARK COVERED BONDS,  
CUMULATIVE EUR BN



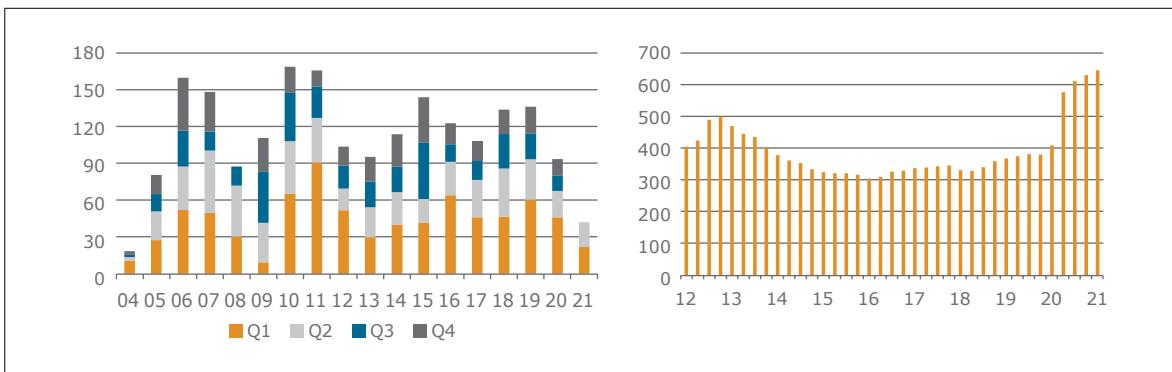
> FIGURE 2: GROSS AND NET SUPPLY OF EURO BENCHMARK  
COVERED BONDS EUR BN



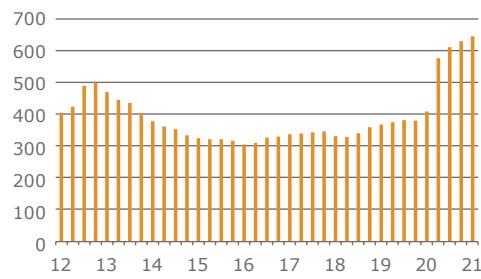
Source: ABN AMRO, Bloomberg

In summary, negative net supply, new deal size developments, a change of regulatory requirements and the nature of the investor base have a direct impact on secondary liquidity. Gross supply of euro benchmark covered bonds was hit hard after the outbreak of the COVID-19 pandemic. This was not only due to adverse market conditions, but mainly due to monetary policy responses of central banks, most of which offered cheap funding to banks (Targeted Longer-Term Refinancing Operations (or TLTROs) by the ECB and the Term Funding Scheme with additional incentives for SMEs (or TFSME), while some central banks also stepped up QE, including covered bonds). On top of that, banks saw a large increase in deposits, which also reduced their funding needs on capital markets. Consequently, public issuance of euro benchmark covered bonds slumped after the outbreak of the pandemic (see graph below left), while at the same time issuance of retained covered bonds jumped. Indeed, the jump in issuance of retained covered bonds was mirrored by a large increase of the amount of covered bonds used as collateral in ECB refinancing operations (see graph below right). As a result, liquidity conditions worsened, with investors facing difficulties in reinvesting maturing covered bonds. Furthermore, the lack of supply also resulted that covered bond spreads returned quickly to below pre-crisis levels, which made covered bonds more expensive as well.

> FIGURE 3: ISSUANCE OF EURO BENCHMARK COVERED BONDS,  
EUR BN



> FIGURE 4: USE OF COVERED BONDS AS COLLATERAL IN ECB  
REFINANCING OPERATIONS, EUR BN

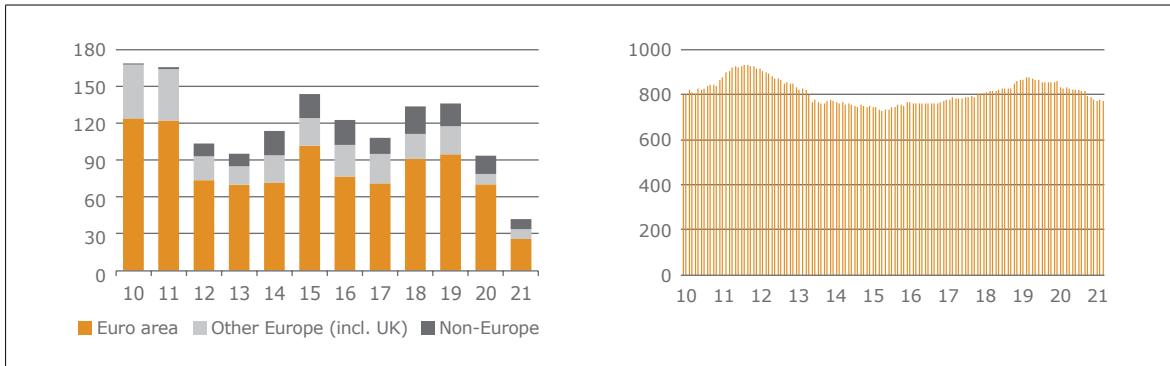


Source: ABN AMRO, Bloomberg

A regional breakdown showed that gross issuance fell among regions, although the drop in the share of issuance of ‘other European’ countries, and mainly the UK and Sweden, were most remarkable in 2020 (see graph below left). In Sweden, this also stemmed from the fact that the Riksbank included covered bonds in its QE programme in March 2020, which made the domestic covered bond market a more attractive funding place for Swedish banks than the euro-denominated market (see also paragraph on Sweden). UK issuers could also turn to the Bank of England for cheap funding under the TFSME.

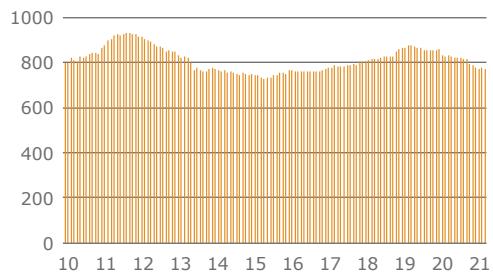
So far in 2021, new issuance of euro benchmark covered bonds has remained at very low levels, as the factors suppressing funding needs in 2020 are still at play and are also unlikely to fade soon. Because of higher redemptions in 2021, net supply has been firmly negative, already outpacing that in 2020 as a whole. Meanwhile, the lack of supply has also resulted in a drop in the amount of outstanding covered bonds in the covered bond indices. The Bloomberg-Barclays euro covered bond index had an outstanding amount of EUR 769 bn in June 2021 (see graph below right). This marks a 7.5% decrease compared to a year ago. Moreover, the EUR 290 bn of covered bonds that the Eurosystem holds in its CBPP3 portfolio, reduces the free-float of covered bonds to around EUR 475 bn.

> FIGURE 5: ISSUANCE OF EURO BENCHMARK COVERED BONDS, SPLIT BY REGION, EUR BN



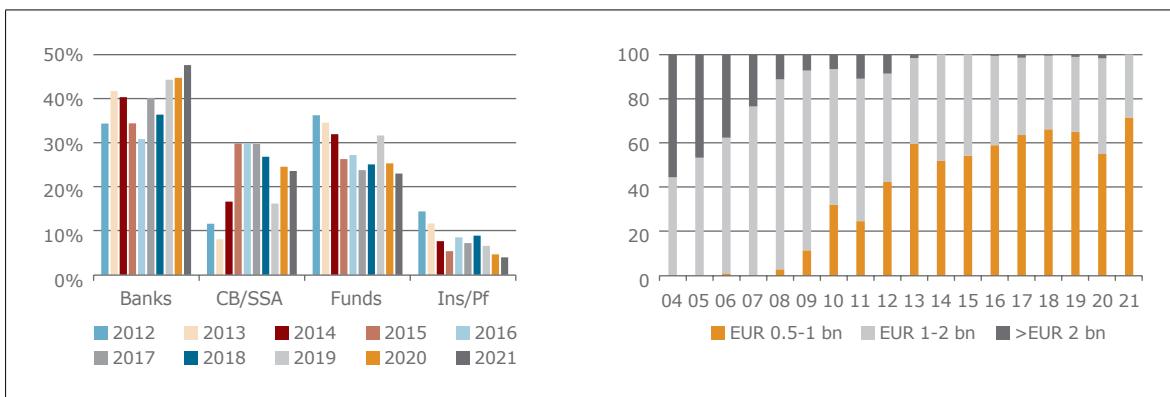
Source: ABN AMRO, Bloomberg

> FIGURE 6: OUTSTANDING AMOUNT OF THE BLOOMBERG-BARCLAYS EUR COVERED BOND INDEX, EUR BN



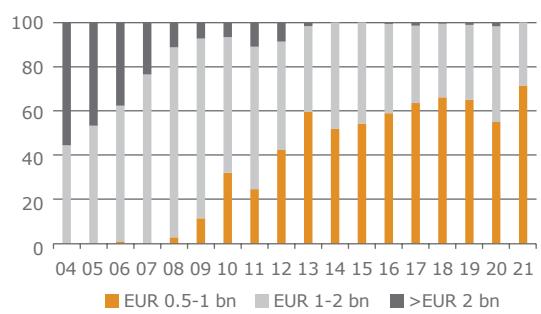
Let us again look at the evolution of the investor base as an angle for liquidity. If the share of buy-and-hold investors has risen in the past few years, this should have reduced liquidity of covered bonds. The graph below left shows the average allocation share per investor type in new euro benchmark deals. The graph clearly illustrates the crowding out impact of the Eurosystem's third Covered Bond Purchase Programme (CBPP3). The share of central banks/SSAs has risen sharply again since the restart of net covered bond purchases within CBPP3 at the end of 2019 (the Eurosystem only reinvested maturing principles between January and October 2019). The share of central banks/SSAs rose to 25% in 2020, up from 16% in 2019 and 8% in 2013. This has come at the expense of other investors. Asset managers have seen the biggest drop in their share, to 23% in 2021 from 35% in 2013. As these can be regarded as the most active portfolio managers, it seems fair to conclude that the change in the investor base in recent years has also not supported liquidity of covered bonds. Furthermore, participation of banks in new deals has remained at relatively high levels, having even risen in recent years, also partly driven by the fact that they are less effected by low or negative yields. This likely reflects that covered bonds are an attractive asset class in LCR portfolios, while a search for yield has also driven bank investors to longer up the curve. Unfortunately, most banks are buy-and-hold investors, so this does not support liquidity in the end neither.

> FIGURE 7: NEW EURO BENCHMARK COVERED BOND DEALS BROKEN DOWN BY INVESTOR TYPE, %



Source: ABN AMRO, Bloomberg

> FIGURE 8: NEW EURO BENCHMARK COVERED BOND DEALS BROKEN DOWN BY SIZE, % - SHARE



Finally, the larger the issue size, the better the liquidity. But also, in this case, it seems that recent developments point in the direction of reduced liquidity. The graph above right depicts the share of new deals broken down by issue size. The share of deals with an issue size below EUR 1 bn increased strongly in recent years. Whilst only 3% of the deals had a size smaller than EUR 1 bn in 2008, their share has steadily risen over time. Although their share declined to 55% in 2020, it has risen to above 70% in 2021. Bearing in mind that most of these deals end up at central banks or bank LCR portfolios, their amounts of free-float are limited.

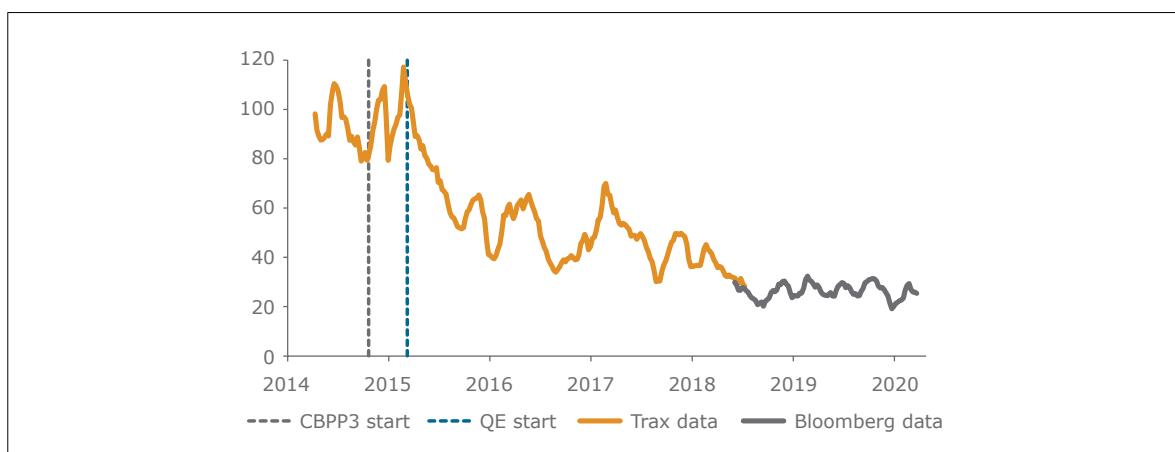
#### **How much, how often and where? Secondary market trading in the euro covered bond market**

Each time the covered bond segment came under general spread pressure in recent years, its (lack of) market liquidity came into the spotlight again. In view of the defensive stance taken by many market makers in general, it has become all the more difficult for investors to buy or sell larger positions in some segments, if required. But how was liquidity in the covered bond market before the outbreak of the pandemic?

In order to gain a broader overview, we analyse the trading volumes that are aggregated by Bloomberg as part of MiFID (Markets in Financial Instruments Directive) reporting. After adjusting the data<sup>1</sup>, we can identify a total trading volume of around EUR 201 bn for EUR benchmarks via Bloomberg for the 12-month period from April 2019 to March 2020. On a weekly average, this was just under EUR 4bn or 0.4% of the outstanding volume. Moreover, as is well known, it is by no means unusual when even younger covered bonds fail to trade at all in individual weeks. Calculated across all benchmarks, we see this happening on average every third week. A glance at the ticket sizes confirms this assessment. Naturally, the number of transactions processed on stock exchanges significantly exceeds that of other sources. However, their volumes are usually negligible. If one excludes stock exchanges, there are around 111,000 transactions left between April 2019 and March 2020. Their average ticket size was only around EUR 2.5 mn. This figure corresponds to the ballpark figure suggested by Trax data in the past and should therefore reflect the current state of the market quite well. Over the last two to three years, these general trading activity ratios did not change markedly. This highlights the fact that liquidity in the covered bond market has stabilised, although at a relatively low level compared to the period before the ECB's CBPP3 set in.

> FIGURE 9: TRADING ACTIVITY HAS STABILISED ON A RELATIVELY LOW LEVEL

TURNOVER OF EUR BENCHMARK COVERED BONDS RECORDED BY BLOOMBERG IN ACCORDANCE WITH MiFID RULES OR TRAX,  
RESPECTIVELY, 8-WEEK MOVING AVERAGE OF INDEXED TURNOVER DATA (100 = H1-14)



Source: Bloomberg, Trax, Commerzbank Research

<sup>1</sup> For example, we exclude the turnover reported by Deutsche Börse due to several discrepancies.

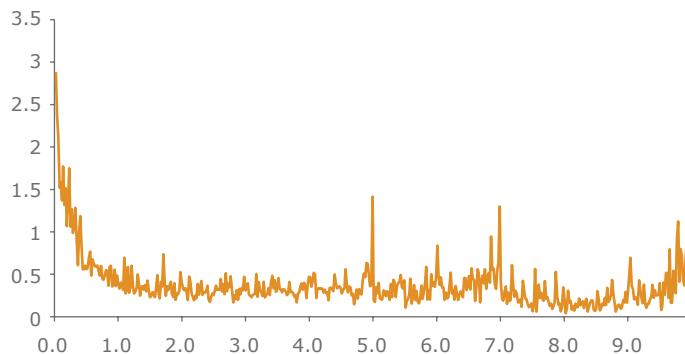
### **Which factors influence trading volume?**

Whether the liquidity of a covered bond is high or low is not easy to determine. For one thing, market liquidity is difficult to measure. We therefore focus on trading volume here. Furthermore, there are naturally a number of different factors that influence the liquidity or trading volume of bonds – and these must be taken into account when comparing individual covered bonds. In addition to the age of a bond, its size and market risk, these include seasonal factors, the quality of its allocation, demand during book building and primary market supply. We have recently verified these liquidity drivers in three detailed studies<sup>2</sup>. Our dataset for the turnover recorded by Bloomberg between April 2019 and March 2020 confirms most findings there. For example, the average trading volume of a covered bond increases with its size. Trading volume grows at a slower pace though: the turnover of a EUR 1 bn – EUR 1.24 bn bond was roughly 75% higher in the mentioned period than that of a EUR 500 mn – EUR 749 mn issue. There is therefore no jumbo bonus with regard to liquidity.

However, by far the most important factor for the trading volume of a covered bond is its age. While switch trades, profit taking or follow-on purchases support the turnover, over time, volume increasingly seeps away due to buy-and-hold investors. Our data show that, on average, the weekly turnover falls below 1.0% of the outstanding volume after only one quarter. After one year this rate is only 0.35%, and in the long run it typically levels off between 0.2% and 0.3%. On the market as a whole, the turnover is likely to be higher, but the trend should be the same.

> FIGURE 10: LIQUIDITY FOLLOWS AN L-SHAPE: TURNOVER DROPS RAPIDLY WITHIN A FEW MONTHS

AVERAGE TRADING VOLUME OF A EUR BENCHMARK FROM APRIL 2019 TO MARCH 2020, BY AGE OF BOND IN YEARS,  
IN % OF THE NOMINAL OUTSTANDING

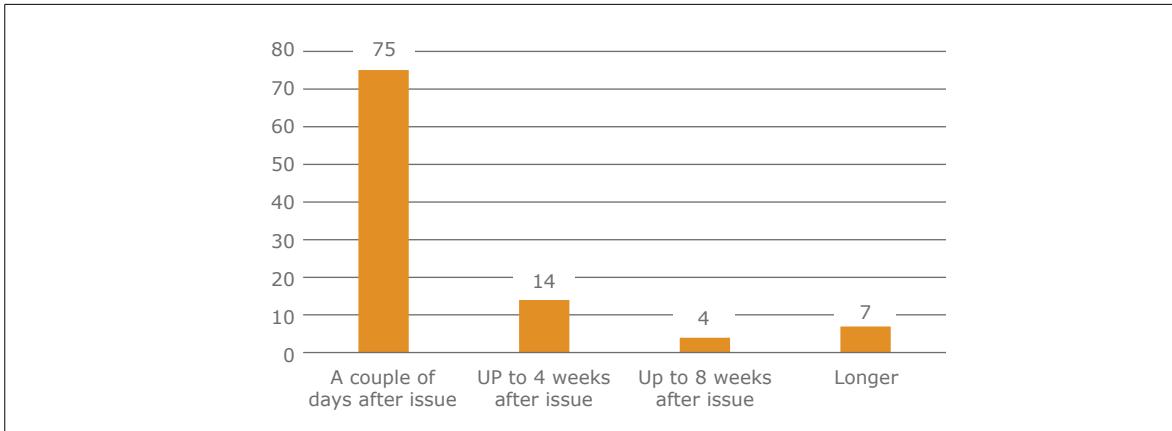


Source: Bloomberg, Commerzbank Research

The fact that liquidity reduces quickly after a new bond has been issued also follows from the investor survey that was held for this Fact Book (see chapter 1.8). Respondents noted that it was fairly easy to buy new bonds in the secondary market a few days after issuance. However, only 14% of investors noted that it was easy to buy bonds up to four weeks after issuance, while only 7% of investors indicated that this was still the case around two months after the issuance date.

<sup>2</sup> see How new bond issuance influences the liquidity of covered bonds. *The Journal of Fixed Income*, vol. 29 (2), pp. 44-60; Seasonal liquidity effects and their determinants on the covered bond market. *The Quarterly Review of Economics and Finance*, forthcoming; and [Liquidity drivers on the covered bond market](#).

> FIGURE 11: INVESTOR SURVEY: HOW LONG IS IT POSSIBLE TO BUY A NEW BOND RELATIVELY EASILY IN THE SECONDARY MARKET AFTER ISSUANCE? % OF RESPONDENTS



Source: ECBC

To best compare covered bond turnover between individual bonds despite the high number of influencing factors, we convert the trading volumes to their shares of the nominal. In the following analysis, we also differentiate according to the issue date of the covered bond.

#### ***Which products had the highest trading activity?***

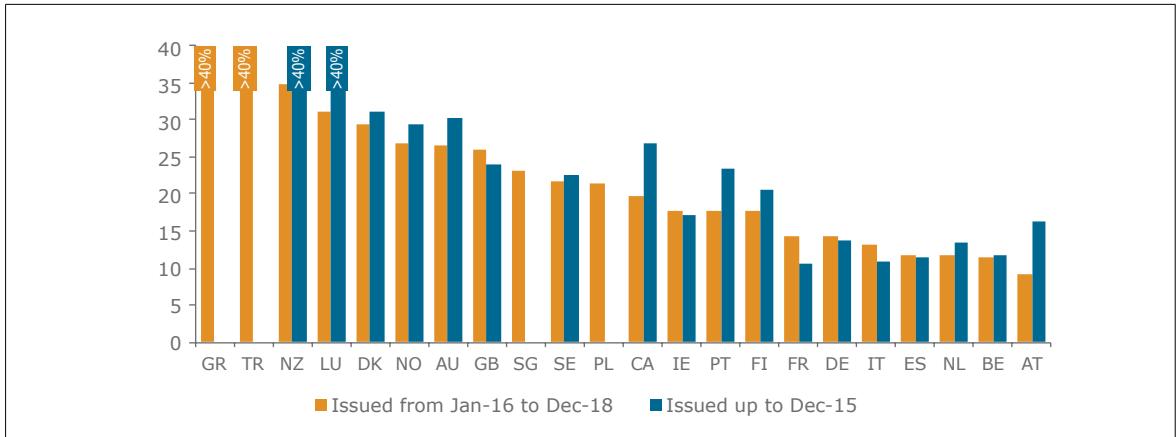
Due to the dominant age effect, middle-aged covered bonds are most interesting for statements on fundamental liquidity trends, in our opinion. They represent the bulk of the outstanding volume, and while they reflect the medium-term turnover potential, they are not yet excessively dominated by buy-and-hold investors. They are therefore likely to be the focus of most investors. Consequently, we exclude bonds that were issued after December 2018 from our analysis.

If the trading volume of covered bonds issued between 2016 and 2018 is broken down by country of origin, we note a marked “headline effect”: i.e. bonds that are (potentially) in the focus of the news tend to be traded more often. This fits well with the general rating effect of bond trading activity: bonds with lower ratings are generally traded more often because they can be used, for example, to convert market movements into returns more easily. Greek and Turkish covered bonds have therefore frequently appeared at the top of our previous trading volume overviews. The data are in line with this. The trading activity of UK covered bonds is also likely to have been supported by the steady Brexit news flow. With a turnover of 26% of the outstanding volume, UK securities reached almost double the level of French or German covered bonds from April 2019 to March 2020.

This, however, should not lead to the reverse conclusion that overseas markets such as Australia, New Zealand or Canada, which are also among the top traded segments, may be regarded by investors as risk products. In contrast to the UK, these covered bond segments have repeatedly attracted attention with high trading volumes in our turnover analyses of recent years, without these countries continually ‘hitting the headlines’. The relatively high trading activity in overseas products is therefore more likely to testify to solid intrinsic liquidity. This may be partly due to the absence of CBPP3 purchases in these countries, which are largely held to maturity.

In fact, our comparison clearly shows the trading activity gap between CBPP3-eligible segments and non-eligible ones, with the former featuring markedly higher overall turnover. And the chart does not yet account for the fact that a marked number of trades comes from the CBPP3 itself.

> FIGURE 12: TURNOVER RANKING BY PRODUCT INDICATES SOLID LIQUIDITY IN OVERSEAS MARKETS, BUT ALSO WEAKNESSES IN SOME SEGMENTS  
TRADING VOLUME OF SELECTED COVERED BOND SEGMENTS FROM APRIL 2019 TO MARCH 2020, IN % OF NOMINAL VALUE



Spain without Multi Cédulas, source: Bloomberg, Commerzbank Research

It may come as a surprise to learn that Spain and Italy are so far behind in our ranking. Due to the weaker ratings and the various political headlines from the periphery, covered bonds in Spain and Italy could theoretically have been expected to be much more active. In part, the deviation is probably due to the low primary market activity in Spanish and Italian benchmarks. This is also depressing secondary market activity. In our opinion, however, the data also show the general liquidity weakness and one-sidedness of the market.

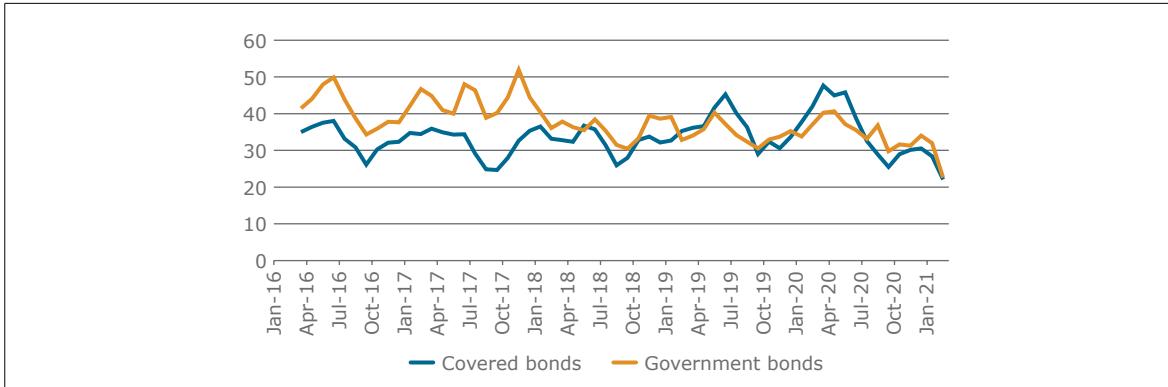
### THE SWEDISH COVERED BOND MARKET

The Swedish domestic market for covered bonds is of great importance for the domestic capital market. Before Sweden implemented a law for covered bonds in 2004 a liquid market for mortgage bonds had been around since the beginning of the 80s. The outstanding volume of covered bonds in SEK was EUR 196 bn at year end 2020. That was more than twice as much as the outstanding volume of government bonds.

Swedish bond market investors appreciate liquidity. The large banks issue their covered bonds as benchmarks which mean that large amounts are issued and that a number of dealers are contracted to show both bid and offer prices. Also, only benchmarks are deliverable in the future contracts. When a new benchmark-bond is issued, the issuers make sure that the amount issued meets the requirements for a benchmark sized deal. After the initial day of issuance, the issuer can, without further notice, issue "on tap". The benchmark bonds can amount to volumes of about SEK 60 bn (almost EUR 6 bn). Sweden has a liquid and smoothly operating repo market with almost all banks and broker firms involved in the trading. The issuers offer their market makers a repo-facility in their own bonds. The repo transaction is viewed as a 'sell-buy back' or 'buy-sell back' deal and the ownership of the security has to be transferred.

Overall, this system has been working for a long period of time. The recently implemented legislations regarding higher capital requirements, greater information requirements (MiFID II) and other potential obstacles such as the leverage ratio, structural reforms etc. have not been observed to have had any significant effects on the liquidity in the Swedish covered bond market. The Swedish Central Bank (Riksbanken) has been aggressive in its QE policies for some years. Due to the pandemic, the Riksbank has increased their buying of bonds. Before the pandemic they just bought government bonds but now they are also buying Covered bonds and other bonds. The Riksbank owned roughly 14% of the outstanding amount of SEK covered bonds at the time of writing. During the beginning of the pandemic, there was an increase in trading activity, but the activity has been diminishing throughout the pandemic. This is true both in the spot market and in repos.

> FIGURE 13: DAILY TURNOVER, 3 M MOVING AVERAGE, WITHOUT REPOS, SEK BN



Source: Riksbanken

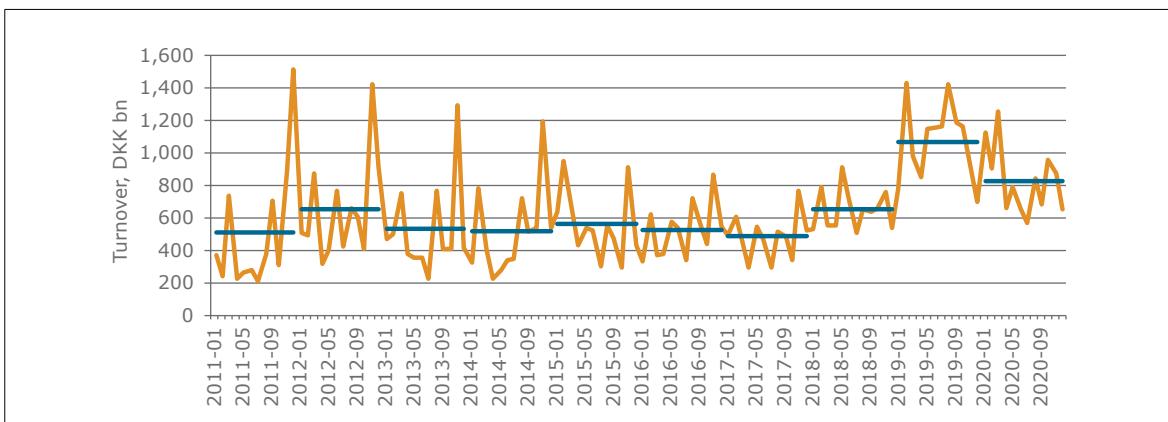
### THE DANISH COVERED BONDS MARKET

The type of bonds making up the Danish covered bond market fall into three major segments: callable bonds, bullet bonds and floaters with or without a cap. All bonds are UCITS compliant and the vast majority is CRR compliant. The market comprises a great number of securities, but the vast majority of the nominal value is concentrated on a relatively small number of large series.

With an outstanding volume of EUR 437 bn, the Danish covered bond market is the largest in Europe. Trades in mortgage covered bonds are reported to the Danish exchange, Nasdaq Copenhagen, including over the counter trades and excluding repos.

Average monthly turnover on Nasdaq Copenhagen including over the counter trades and excluding repos in the period 2011 – 2020 came in at around DKK 629 bn (app. EUR 85 bn). In 2020 average monthly turnover was DKK 829 bn (app. EUR 111 bn), cf. Figure 16. On average this means that approximately 25% of the outstanding volume was traded every month of 2020. After a record high remortgaging activity in 2019, issuance of callable bonds in the primary market financing, e.g. remortgaging and home purchases, was once again a driver for turnover in 2020.

> FIGURE 14: TURNOVER IN DANISH COVERED BONDS, MONTHLY TURNOVER IN DKK BN.



Source: Nasdaq Copenhagen

Note: Data is for nominal value Non- Repo Mortgage Bond transactions including OTC. Horizontal lines indicate yearly averages. From 2018 a new transaction reporting was implemented. Data before and after 2018 is not directly comparable.

The outbreak of COVID-19 in the spring of 2020 resulted in great uncertainty on the future economic development. This global shock also impacted the Danish covered bond market in a brief period following the lockdown of Denmark in mid-March 2020. The mortgage rates increased over a few weeks after lockdown, which was primarily driven by weakening of demand for newly issued bonds and not by sales pressure from investors<sup>3</sup>. The covered bond market remained open throughout the period with market turmoil and the Danish mortgage banks were able to meet demand from borrowers and supply loans by issuing and selling covered bonds in the market. In the beginning of April 2020, the Danish covered bond rates were only a bit elevated compared to the levels before the lockdown.

In 2020 the share of foreign investors owning Danish covered bonds increased slightly to around 24%. Even during the spring months of 2020, the foreign investors share of Danish covered bonds remained on a constant level despite the corona outbreak. Foreign investors have a positive effect on market turnover and liquidity.

### **FACTORS AFFECTING TURNOVER AND LIQUIDITY IN DANISH COVERED BONDS**

Pass through, tap issuance, quarterly refinancing auctions and frequent early repayment activity are all characteristics of the Danish covered bond market, which among other more universal factors affect the level of market turnover. The strict balance principle deployed by Danish mortgage banks incorporates pass through and means that mortgage covered bonds are tap issued on the go, in sync with demand for mortgage loans. Following the initial tap issuance, mainly bullet bonds and to an extent floaters, are refinanced by the issuance of new bonds at refinancing auctions over the life of the loan.

Borrowers' early repayments also influence liquidity in the Danish covered bond market. Any Danish covered bond can be bought back by the borrower at the current market price and delivered to the issuing mortgage bank – the buyback option – or in the case of fixed rate mortgages it is also possible to redeem at par. This type of early redemption activity gives rise to an increase in transactions both when bonds are bought back (the buyback option), and when new bonds are issued.

Due to tap issuance, the market maker function of universal banks is handed a central role providing liquidity in the covered bond market, as professional investors are mostly unwilling to buy in small batches. Looking forward, market makers remain the main source of liquidity in the Danish covered bond market. However, higher capital charges, liquidity rules and the low interest rate climate have put pressure on the profitability of market making. To a lesser extent, market makers will be providers of market liquidity, rather than makers between buyers and sellers in the market.

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<sup>3</sup> Danish Mortgage bond liquidity briefly impacted by covid-19, Danmarks Nationalbank, November 10, 2020. (<https://www.nationalbanken.dk/en/publications/Pages/2020/11/Danish-Mortgage-bond-liquidity-briefly-impacted-by-covid-19-.aspx>)



## CHAPTER 2 - GENERIC SECTION



## **2.1 OVERVIEW OF COVERED BONDS**

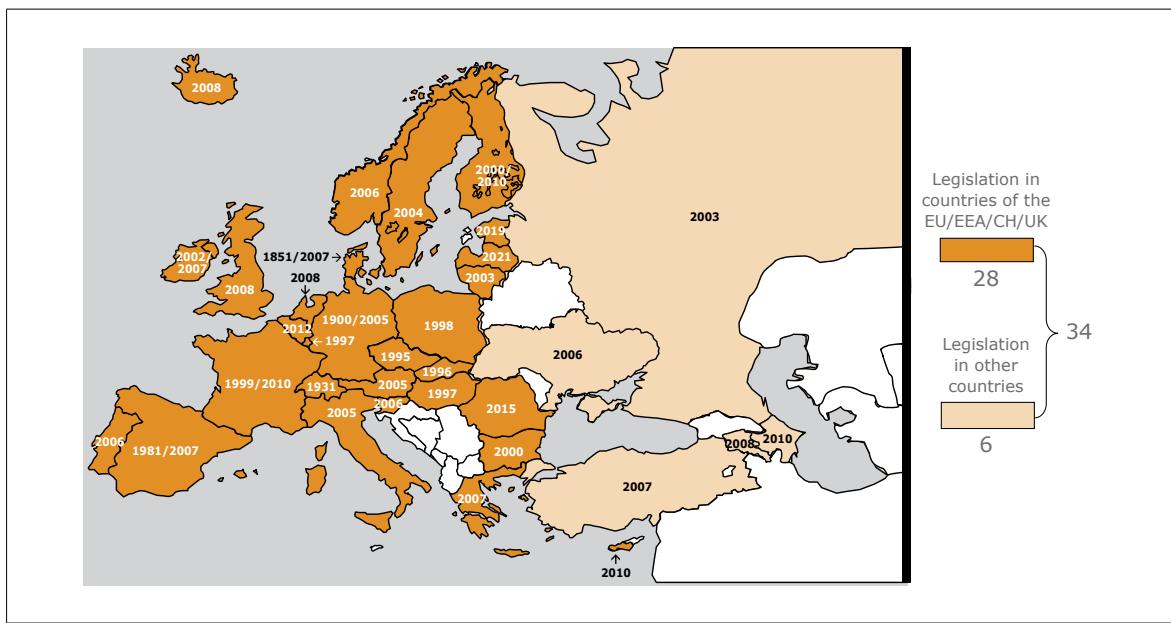
By Joost Beaumont, ABN Amro, Cristina Costa, Société Générale and Otmar Stöcker,  
Association of German Pfandbrief Banks

### **I. INTRODUCTION**

The covered bond is a pan-European product with a long-standing history. Decisive milestones in its development were laid in Prussia (1770), Denmark (1797), Poland (1825) and France (1852). Traditional issuers ranged from public law "Landschaften" to private mortgage banks. Initially, the instrument's aim was to finance agriculture, but it later concentrated more on housing and commercial real estate.

Over the past 20 years, the covered bond market has developed into the most important segment of privately issued bonds on Europe's capital markets, with volume outstanding as of end-2020 of EUR 2.9 trillion. Today, there are active covered bond markets in 30 different European countries (please refer to the covered bond statistics section in chapter 5 for more information). The covered bond market has also expanded beyond European borders to become a global product: countries such as Australia, Canada, New Zealand, Singapore, South Korea, Brazil have established covered bond legislation, and others (Morocco, US, Japan, Mexico, Chile, India, Thailand, Malaysia, China, Croatia) are looking to establish CB frameworks.

> FIGURE 1: COVERED BOND LEGISLATION IN EUROPE (AS OF MAY 2021)



Source: vdp

### **Why are covered bonds so popular?**

Covered bonds play an important role in bank wholesale funding, as they provide lenders with a cost-efficient instrument of long-term funding for mortgage or public-sector loans, and offer investors good quality credit exposure on credit institution. Furthermore, the instrument has proved its resilience as a funding instrument at various occasions during the financial and sovereign crisis. More recently, during the COVID-19 pandemic covered bonds proved to be one of the only asset classes able to restore investor confidence and ensure issuers access to the debt capital markets. The high importance of covered bonds from the financial system is demonstrated by the regulatory privileges these instruments enjoy in various areas of EU financial market

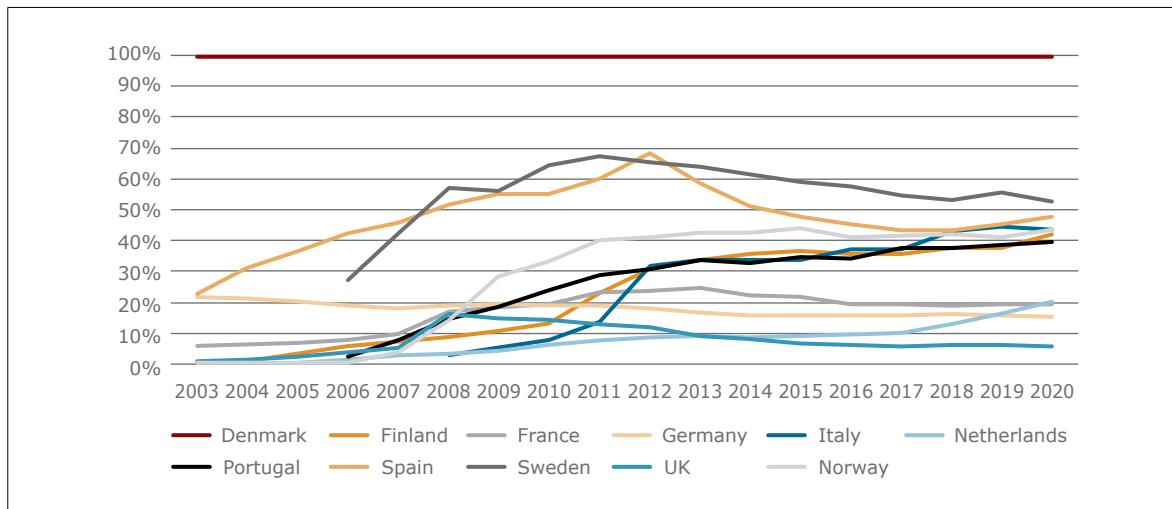
regulation. The new EU legislation on covered bonds in Europe will further reinforce the conditions for granting preferential capital treatment to covered bonds by adding further requirements. At national level, in addition to the introduction of new covered bond legislations, there have been continuous evolutions/amendments to existing legislations, underlying the commitment of issuers, investors and regulators to take on board the best practice standards and further reinforce and enhance the quality of the asset class.

### **Covered bonds as a long-term funding tool for the real-economy: the example of housing finance**

Covered bonds are an effective tool to channel long-term financing for high quality assets at reasonable cost. They improve bank's ability to borrow and lend at long-term horizons and, hence, represent a stable source of funding for key banking functions such as housing loans and public infrastructure. In this regard, we believe that covered bonds represent a key funding tool for the (European) banking industry.

The use of covered bonds as a funding tool depends largely on the size of the domestic mortgage market, and the availability of alternative funding tools for banks (and their costs). The figure below shows that in most countries mortgage backed covered bonds account for at least 30% of outstanding mortgage loans. Most of the countries have now reached stable relative size of the covered bond market after a phase of strong growth in 2007/2008, and a more moderate growth subsequently.

> FIGURE 2: MORTGAGE BACKED COVERED BONDS AS % OF RESIDENTIAL MORTGAGE LOANS



Source: EMF-ECBC

### **Benefits of covered bonds**

**From an issuer's perspective**, covered bonds enable banks to enhance their funding profile and manage their liquidity. Benefits provided by covered bonds include:

- > Providing banks a diversification of their funding mix, allowing asset liability management (ALM) teams to better adapt their funding strategy to market conditions;
- > Extending the maturity profile of the liabilities, allowing banks to better match their long-term asset portfolios;
- > Enabling issuers to increase diversification of the investor base, both in terms of geography and investor type, in particular to the more conservative rates investors. This phenomenon can also be evidenced by issuers turning to the issuance of green covered bonds, as they seek to broaden their investor base;

- > Transforming less liquid mortgage loans into covered bonds which are eligible as collateral for central bank liquidity (including own use); and
- > Servicing the industry as one of the most reliable funding tools, even in times of turmoil.

**From an investor's perspective**, the major strengths and regulatory advantages of covered bonds can be summarized as follows:

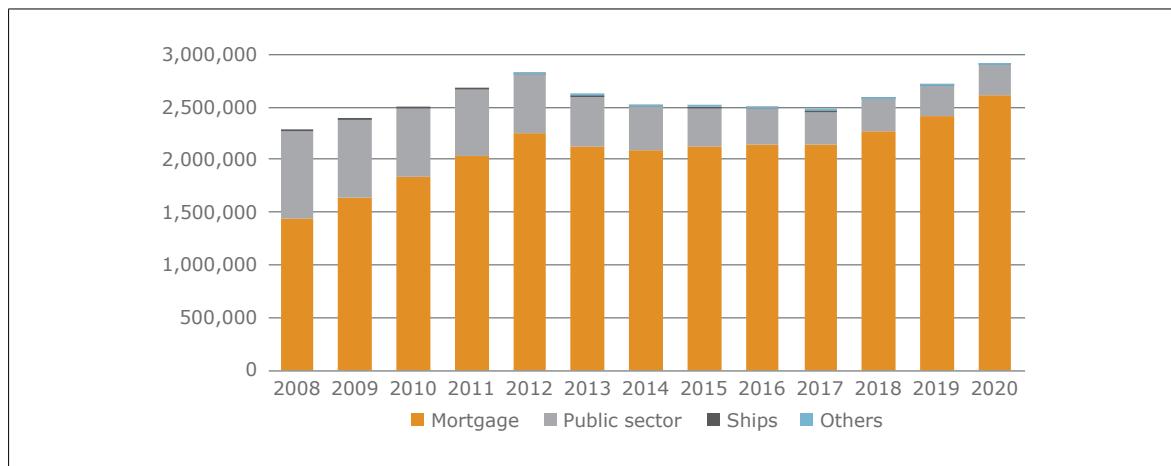
- > Dual recourse to the issuer and a cover pool of high-quality assets (and therefore higher recovery in case of liquidation of the CB issuer);
- > Higher rating and higher rating stability than unsecured debt;
- > Lower risk-weighting for EEA covered bonds bought by EEA banks under the EU's CRR;
- > Eligible as liquid assets under the EU LCR regulation;
- > Exemption from bail-in under EU's BRRD;
- > Privileged treatment of covered bonds under the EU large exposure rules (and upcoming Basel Committee on Banking Supervision (BCBS) rules);
- > Favourable treatment under Solvency II;
- > Favourable repo treatment at the European Central Bank (ECB) and other central banks;

### **Resilient bank funding instrument**

Covered bonds are the most reliable funding source, as they make banks less susceptible to adverse market conditions. They often offer issuers better wholesale capital market access, lower transaction execution risk, and decrease the reliance on senior unsecured funding and interbank markets. This is especially true during times of crises. During the European sovereign crisis of 2011-2012, covered bond issuers of some jurisdictions had, for instance, cheaper access to wholesale funding markets via covered bonds than their respective distressed sovereigns.

The development of covered bonds has also been shaped by regulation. The 2014 EU Liquidity Coverage Directive established covered bonds as eligible for Level 1 and Level 2A High Quality Liquid Assets (HQLA). As a result, bank treasuries have become regular buyers of covered bonds to include in their liquidity portfolios.

> FIGURE 3: TOTAL OUTSTANDING COVERED BONDS BY UNDERLYING ASSETS, 2008 TO 2020



Source: EMF-ECBC – Covered bonds outstanding at the end of 2020.

## **II. EU HARMONISATION OF COVERED BONDS**

On 7 January 2020, the legislative package for the EU-wide harmonisation of covered bond (CB) frameworks entered into force. This needs to be adopted and published in national law by 8 July 2021, after which issuers will get 12 months to comply with the new legislation. So, the new measures have to apply by 8 July 2022 at the latest.

The harmonisation package consists of a Covered Bond Directive (CBD) and an amendment of Article 129 of the CRR, which distinguishes the core group of traditional secured bonds issued by a credit institution more clearly from other kinds of covered bonds. The CBD regulates the requirements for covered bonds, which, up to now, were only laid down in a rudimentary fashion in Article 52(4) of the UCITS Directive; this provision has been accordingly amended and now refers to the CBD, as has the Bank Recovery and Resolution Directive (BRRD). Given that the CBD will become the new single reference point for regulation related to covered bonds, various other provisions on covered bonds in other directives that refer to Article 52(4) of the UCITS Directive are thus also indirectly amended.

### **1. Principle-based harmonisation**

The regulatory discussion on the creation of the CB harmonisation package was characterised by the “principle-based harmonisation” aimed at by the EU regulatory framework. This means that the EU provisions lay down the minimum requirements for secured bonds issued by credit institutions and, in a number of ways, leave room for particularities and detailed regulations at the national level; this has also been the (almost) unanimous petition of CB issuers and other market participants. This is of fundamental importance both for understanding the regulatory package and for interpreting the individual provisions.

While the CBD builds on the essential traditional quality features of covered bonds, it leaves national legislators a wide margin of leeway in shaping their national CB laws. This is also illustrated by the fact that the CBD contains both mandatory and optional provisions. Some mandatory provisions also contain optional elements, and vice-versa.

### **2. Covered Bond - Directive**

The recitals of both parts of the CB harmonisation package are worth reading, as they explain the aim of the harmonisation project and locate the new rules within the existing set of rules for covered bonds. The definitions listed in Article 3 of the CBD are also important for understanding individual provisions. The CBD consists of the following Titles:

- I. Subject matter, scope and definitions (Articles 1-3)
- II. Structural features of covered bonds (Articles 4-17)
- III. Covered bond public supervision (Articles 18-26)
- IV. Labelling (Articles 27)
- V. Amendments to other Directives (Articles 28-29)
- VI. Final provisions (Articles 30-34)

#### **2.1 Dual recourse**

Article 4 of the CBD describes the most important element of covered bonds, dual recourse. Although this term has been in use for a long time, there is often confusion as to what its two components should be. In fact, there are three components, as Article 4(1) of the CBD clearly illustrates in listing components a) – c):

- a) a claim against the credit institution (the CB issuer); this is the most important difference to securitisations (such as asset-backed securities and mortgage-backed securities) where the investor has a claim against an SPV as a non-bank;
- b) in the case of the insolvency of the CB issuer, a claim against the cover pool; and

c) if the cover pool is insufficient, a claim against the insolvency estate of the CB issuer. If this third claim is regarded simply as a consequence of a), then "dual recourse" is the correct term, otherwise "triple recourse" would be more precise.

## **2.2 Bankruptcy remoteness of covered bonds**

Article 5 of the CBD makes only brief mention of the fact that payment obligations attached to covered bonds are not subject to automatic acceleration upon the insolvency or resolution of the CB issuer.

This ensures that investors will receive their capital and interest payments at the time specified in the terms and conditions of the issuance, even if the CB issuer becomes insolvent. This "timely payment" is a key requirement in investors accepting low interest rates and in rating agencies granting covered bonds high ratings.

As simple as this sounds, difficulties arise when determining the time specified in the terms and conditions of the issuance. The "hard bullet" versions of covered bonds such as (up to now) the German Pfandbrief, have a fixed maturity. However, most legislators in other countries allow this date to be extended under certain conditions. Many credit institutions use this for their CB issuances, which are then called "soft bullet" covered bonds or conditional pass-through covered bonds. Article 17 of the CBD addresses this issue.

## **2.3 Eligible cover assets**

In 2013, Article 129 of the CRR established the first uniform, EU-wide, and directly binding provision<sup>1</sup> on which cover assets could be used to back a covered bond in order to achieve a favourable risk weighting. These requirements continue to apply.

a) Article 6 of the CBD goes beyond the framework of Article 129 of the CRR and allows for additional cover assets. If such cover assets going beyond Art. 129 CRR are included in a cover pool, the covered bonds issued on this basis would lose their preferential treatment in accordance with Article 129 of the CRR, but can make use of the other special provisions directly linked to the CBD or other EU directives that refer to the CBD.

Furthermore, according to Article 27 of the CBD, a covered bond whose cover assets meet the requirements of Article 129 of the CRR may be labelled as a "European Covered Bond (Premium)". However, the term "Premium" may not be used for covered bonds that go beyond this group of cover assets. In the meantime, the term "Directive-only covered bond" is sometimes used for these bonds in order to simplify matters and to distinguish them from "CRR Covered Bonds".

b) Article 6(1) of the CBD provides for four categories of eligible cover assets:

(1) Assets that are eligible pursuant to Article 129 of the CRR:<sup>2</sup> These are mainly traditional assets, especially claims related to property financing, public financing, and ship financing. In this context, the following LTV ratios<sup>3</sup> apply to property and ship assets: residential immovable property mortgages 80%; commercial immovable property mortgages 60%;<sup>4</sup> and maritime liens on ships 60%.

<sup>1</sup> Requirements for cover assets for covered bonds were included for the first time in point 68 of Part I of Annex VI of Directive 2006/48/EC of the European Parliament and of the Council of 14 June 2006 relating to the taking up and pursuit of the business of credit institutions. This directive together with Directive 2006/49/EC of the European Parliament and of the Council of 14 June 2006 on the capital adequacy of investment firms and credit institutions were usually collectively referred to as the "CRD I Package". For more details on the CRD rules for covered bonds, see Engelhard, Covered Bonds and the EU Capital Requirements Directive, ECBC, European Covered Bond Fact Book, 1st Edition, 2006, p. 179 (pp. 180 et seq.).

<sup>2</sup> Point (a) of Article 6(1) of the CBD.

<sup>3</sup> Loan to Value ratio. Article 129 of the CRR leaves it open as to whether national CB legislators define these LTV limits in absolute or relative terms (i.e., whether exceeding the loan amount leads to the result that the entire loan may not be used for cover, or whether the virtual division of the loan into a part for cover purposes and part outside of cover is permitted). The national CB laws differ considerably in this respect.

<sup>4</sup> This can be exceeded up to a maximum level of 70% if the total assets pledged as collateral for the covered bonds exceed the nominal amount outstanding by at least 10%.

(2) High-quality cover assets:<sup>5</sup> exact criteria for the high quality of cover assets are not provided. Rather, it lists requirements that a cover asset has to fulfil by consisting of a claim for payment<sup>6</sup> and a collateral asset.

These cover assets can also be property and ship financing that exceed the LTV ratios provided in Article 129 of the CRR, while collateral assets can also be provided as “physical collateral assets”<sup>7</sup> or as “assets in the form of exposures”<sup>8</sup>.

In the case of a mortgage loan, the collateral asset would be a lien encumbering a property (and thus a physical collateral asset). These physical collateral assets can be both movable and immovable assets. They require generally accepted valuation standards that are appropriate for the physical collateral asset concerned.

In addition, these physical collateral assets require the existence of “a public register that records ownership of and claims on those physical collateral assets.”<sup>9</sup> This requirement was one of the main points of contention in the provision, as there are no registers for many assets. As such, the following text was added: “Member States may provide for an alternative form of certification of the ownership of and claims on that physical collateral asset, insofar as that form of certification provides protection that is comparable to the protection provided by a public register in the sense that it allows interested third parties, in accordance with the law of the Member State concerned, to access information in relation to the identification of the encumbered physical collateral asset, the attribution of ownership, the documentation and attribution of encumbrances and the enforceability of security interests.”<sup>10</sup> The EU legislator has thus opted for a broad recognition of national covered bond regulations and national certification and recognition schemes.

(3) Public undertakings:<sup>11</sup> these include claims on loans to or guarantees by public undertakings within the meaning of Article 2 of the Transparency Directive.<sup>12</sup>

The reference to this legal definition of public undertakings makes the scope of this category very broad.<sup>13</sup> With its goal of classifying as many companies as possible as “public” (thus making them subject to transparency requirements), the EU Transparency Directive does not aim to define a group of high quality public borrowers or guarantors. Its application was a political compromise to settle the dispute about the scope of counterparties eligible for cover.

Further requirements are set out in Article 6(4) of the CBD. These contain several terms that are subject to interpretation, such as “provide essential public services” and “subject to prudential supervision”.

(4) Claims against credit institutions and insurance undertakings: On the one hand, recital 16 of the CBD makes it clear that credit institutions and insurance undertakings should not be considered public undertakings. In consequence, claims against them cannot be eligible for cover in accordance with point (c) of Article 6(1) of the CBD.

5 Point (b) of Article 6(1) of the CBD in conjunction with Article 6(2) and Article 6(3) of the CBD.

6 In the case of a mortgage loan, eligible claims for payment would be, for example, claims for payment of interest and principal.

7 Point (a) of Article 6(3) of the CBD.

8 Point (b) of Article 6(3) of the CBD.

9 Point (a) of Article 6(3) of the CBD.

10 Last sentence of Article 6(3) of the CBD.

11 Point (c) of Article 6(1) and Article 6(4) of the CBD.

12 Recital 16 of the CBD. Commission Directive 2006/111/EC of 16 November 2006 on the transparency of financial relations between Member States and public undertakings as well as on financial transparency within certain undertakings, Official Journal of the European Union of 17 November 2006, L 318/17.

13 In accordance with the legal definition in Article 2 of the EU Transparency Directive 2006/111/EC, a public undertaking means “any undertaking over which the public authorities may exercise directly or indirectly a dominant influence by virtue of their ownership of it, their financial participation therein, or the rules which govern it. A dominant influence on the part of the public authorities shall be presumed when these authorities, directly or indirectly in relation to an undertaking: (i) hold the major part of the undertaking’s subscribed capital; or (ii) control the majority of the votes attaching to shares issued by the undertakings; or (iii) can appoint more than half of the members of the undertaking’s administrative, managerial or supervisory body;....”

On the other hand, however, they fulfil the requirements for public supervision in accordance with point (b) of Article 6(3) of the CBD. This means that any claim for payment, for whatever legal reason, to cover European covered bonds is eligible if it is guaranteed by a credit institution or insurance undertaking.

In discussions, the European Commission stressed that the aim of the negotiations was to allow payment claims against credit institutions and insurance undertakings for European Covered Bonds (without Premium) to be accepted as eligible for unlimited covered (i.e., not only payment claims guaranteed by them). The collateral asset required by point (b) of Article 6(3) of the CBD is in these cases the “ongoing public supervision of the counterparty’s operational soundness and financial solvability” of the credit institution or insurance undertaking. Although the wording of Article 6 of the CBD is ambiguous, clarification is made in recital 16. Its mention of claims against credit institutions and insurance undertakings not only relates to guarantees, but directly to these claims.

In order to make this even clearer, on 12 September 2019, the EU expert group for the alignment of the various translations decided to change the order of the wording of recital 16 so that the statement that claims against credit institutions and insurance undertakings should be eligible for cover is presented in such a neutral manner that their direct eligibility for cover becomes even clearer. This change has been incorporated in a corrigendum, thus adopted and published with the CBD.

- c) Given the multitude of conceivable cover assets, Article 10 of the CBD aims to make covered bonds more or less uniform in order to ensure homogeneity in the national transposition by the EU Member States, without however defining how this is to be interpreted. Article 10 of the CBD<sup>14</sup> leaves it to national legislators to decide how to regulate homogeneity. The more cover assets a national CB law permits, the more important it becomes to distinguish between them.
- d) The complicated topic of allowing derivative contracts in the cover pool is regulated separately in Article 11 of the CBD.

#### **2.4 Segregation of cover assets**

Article 12 of the CBD prescribes the segregation of cover assets but does not regulate it. It is thus left to Member States or, at their discretion, even to the issuers to ensure segregation.

- a) The legal structures of covered bonds cannot be harmonised

The basic legal structures of covered bonds vary widely and have developed over many years (in some cases centuries). In order to make it easier to compare and contrast these diverse forms, they are usually categorised in five different CB models based on the issuer: specialised funding institutions (vehicles), traditional specialised credit institutions, universal credit institutions, SPV models, and pooling models.

The fundamental differences are particularly evident in the rules governing the link between covered bonds and their cover assets, which are crucial for the segregation of both parts (of critical importance in the event of insolvency of a CB issuer) from the remaining assets of a CB issuer. The legal structure interacts with the degree of specialisation of CB issuers and their ability to integrate into banking groups, so any change in this legal structure would also affect the group structure.

Right from the start of the harmonisation work, the European Banking Authority (EBA) and the European Commission realised that the harmonisation of these fundamental features would not be feasible. It would have been necessary to intervene profoundly in the existing structures of active CB issuers and in well-functioning CB markets without being able to estimate the consequences and effort involved even approximately, and nobody wanted to examine the accounting and tax consequences of a model change in detail.

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<sup>14</sup> Recital 18 of the CBD is also clear in this respect.

As such, Article 12(1) of the CBD only provides the following:

- > All cover assets have to be identifiable.<sup>15</sup> This can be done through entry in a cover register, as stipulated in most CB laws in EU Member States. This can also be achieved by establishing a separate legal entity for the cover pool<sup>16</sup> or even for the CB issuers,<sup>17</sup> so that the cover pool and total assets of this fully specialised company are basically identical; a cover register to decide on the distribution between the cover pool and the insolvency assets in the event of CB issuer insolvency is thus not necessary.
- > The respective CB law has to provide for segregation of assets.<sup>18</sup>
- > The cover assets have to be protected from any third-party claims.<sup>19</sup>

Limiting the provisions to these basic statements means that principle-based harmonisation also applies here, and the design is left to the national CB legislators.

b) Foreign cover assets and segregation of assets

The most challenging discussion in this context focuses on the questions of whether and to what extent foreign cover assets can be integrated into a cover pool or segregated under insolvency law – or, in other words, whether the protection of CB investors regulated by national law also extends to cover assets located abroad.

All CB laws aim to protect CB investors in the event of the insolvency of the CB issuer. If the registered office of the CB issuer is in the same country as the cover assets, the legislator may regulate the allocation of cover assets to the covered bonds because both are located in its territory and therefore subject to its regulatory competence.

Segregation of assets should also apply if the cover assets are located outside the country in which the CB issuer has its registered office. However, this is obviously no longer entirely in the hands of the national legislator.

This gives rise to two main questions: Could other parties than CB creditors seize cover assets abroad in order to gain access to the payments of the loan debtors? Could secondary or territorial insolvency proceedings be opened abroad in respect of the assets of the CB issuer there and, if so, would the preferential treatment of CB creditors under the CB law of the home country of the CB issuer be respected in foreign insolvency proceedings?

c) Cover assets from EU Member States

In answering these questions, the creation of the Directive on the Reorganisation and Winding-up of Credit Institutions<sup>20</sup> is of great importance for the legal area of the EU. This had to be transposed into national law by EU Member States by 5 May 2004.

This EU directive follows the principles of country of origin and universality. This means that the authorities and courts of the country in which the credit institution has its registered office are competent for recovery measures and consequently also for measures taken by banking supervisory authorities in advance of or

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<sup>15</sup> Point (a) of Article 12(1) of the CBD.

<sup>16</sup> This is the case with the CB SPV models in Italy, the Netherlands, and the United Kingdom; here, the SPV is not a credit institution, but guarantees the covered bonds issuances of the universal credit institution with its assets acquired from the universal credit institution. This is also the preferred CB model outside Europe (e.g., in Australia, Canada, New Zealand, and Singapore).

<sup>17</sup> France and Norway bear mentioning here. In these countries, the special purpose company is a credit institution that acquires the cover assets from a universal bank parent company and issues the covered bonds itself.

<sup>18</sup> Point (b) of Article 12(1) of the CBD.

<sup>19</sup> Point (c) of Article 12(1) of the CBD.

<sup>20</sup> Directive 2001/24/EC of the European Parliament and of the Council of 4 April 2001 on the reorganisation and winding up of credit institutions, Official Journal of the European Union L 125/15 of 5 May 2001.

to prevent insolvency, which have to take effect in all other EU Member States.<sup>21</sup> This also applies to the opening and performance of winding-up proceedings.<sup>22</sup>

Creditors other than CB creditors cannot attach cover assets in other EU countries and thus cannot gain access to the payments of local loan debtors. It is not possible to open secondary or territorial bankruptcy proceedings against the assets of the CB issuer in other EU countries. The protective effect of the national CB laws is therefore fully effective within the countries of the EU.

d) Cover assets from third countries

The legal situation becomes more complicated with respect to cover assets located in third countries.<sup>23</sup> Neither national nor EU legislators can create regulations that impact third countries and override international enforcement and insolvency law or directly interfere with regulatory sovereignty of third countries. Consequently, attachment and secondary bankruptcy proceedings in third countries cannot be excluded by domestic legal measures. The EU CB legislator was aware of this. As such, the requirements of Article 12 and Article 7 of the CBD have to be considered in conjunction.

Article 7(1) of the CBD explicitly allows EU Member States to include assets from third countries as cover assets. Although Article 7(2) of the CBD contains requirements for comparability, these relate to collateral assets and their enforceability.<sup>24</sup>

The scope for flexibility in this area is also a consequence of principle-based CB harmonisation.

## **2.5 Cover pool monitors and public supervision**

The provisions of Article 13 of the CBD on the “cover pool monitor” and, in particular, of Articles 18 to 26 of the CBD on “covered bond public supervision” are groundbreaking, as there has been nothing comparable on covered bonds in EU law until now.<sup>25</sup> Without the intensive work of the European Banking Authority (EBA), this density of regulation would not have been possible.

The very fact that Article 13 is located in Title II of the CBD (i.e. Structural features of covered bonds), and Articles 18 et seq. are located in Title III of the CBD (i.e. Covered bond public supervision), shows the decision of the EU legislator that the activity of a cover pool monitor cannot be considered part of public supervision.

It was highly disputed whether the function of a cover pool monitor should be required at all and how its independence should be structured. Here too, principle-based harmonisation is evident: As there are CB cover pool monitor regulations in most, but not all, Member States, the entire cover pool monitor provision has been regulated only as a possibility (i.e., as an optional provision, which, however, contains some mandatory requirements if the decision is made to set up such an authority). In addition, various versions of independence have been permitted with mention made both of a “cover pool monitor ... separate and independent from the credit institution”,<sup>26</sup> as well as of an “internal cover pool monitor”<sup>27</sup> when the function is not separate from the credit institution. However, neither the selection criteria nor the economic relationship<sup>28</sup> with the CB issuer are regulated for either cover pool monitor version, so this too remains within the scope of the national CB legislator’s freedom of design.

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21 Recitals 6 and 7, as well as Articles 3(1) and 3(2) of the Directive on the Reorganisation and Winding-up of Credit Institutions.

22 Recitals 14 and 16, as well as Articles 9 and 10 of the Directive on the Reorganisation and Winding-up of Credit Institutions.

23 According to EU law, third countries are countries outside of the EU and the EEA.

24 The content of this was adopted from Section 18(1) of the German Pfandbrief Act.

25 Article 52(4) of the UCITS Directive and all EU provisions on covered bonds that use the same wording or refer to it only contain the provision that there has to be “special public supervision”. However, it has never been clarified how the terms “special” and “public” should be interpreted.

26 First sentence of Article 13(3) of the CBD.

27 Second sentence of Article 13(3) of the CBD.

28 In particular, the remuneration for the work of the cover pool monitor.

The attention to detail with which Articles 18 to 26 of the CBD regulate various issues concerning the competences and procedures of CB competent authorities is remarkable. In particular, the list of administrative penalties detailed in Article 23 of the CBD is extremely long. These provisions are the result of the deliberations of the EBA's CB working group, which brought together and (in part) summed up the existing national provisions.

## **2.6 Investor information**

The provisions included in Article 14 of the CBD have been largely taken from Article 129(7) of the CRR. There is a discussion on how to transpose the requirement that CB issuers have to regularly publish information on credit risks into national CB law.<sup>29</sup>

Here too, the CBD aims at principle-based harmonisation. As such, if it does not regulate its objectives in detail, rather, it is up to the national CB legislators to decide on the details and scope, which will be based on existing standards.

The connection between this provision and Article 6 of the CBD is obvious. The wider the range of eligible cover assets permitted by national CB law beyond the traditional cover assets, the greater the consideration that needs to be given to including transparency provisions for the associated credit risks.

## **2.7 Coverage requirements**

Article 15 of the CBD contains provisions on coverage principles<sup>30</sup> and coverage calculation. Although the nominal principle is provided for in general, national CB legislators may also allow for other principles of calculation, the details of which have to be regulated in national CB laws.<sup>31</sup>

For the first time, an EU provision has stipulated that winding-down costs are to be taken into account in the coverage calculation:<sup>32</sup> "the expected costs related to maintenance and administration for the winding-down of the covered bond programme."

In order to avoid the time-consuming and costly calculation of winding-down costs according to current (and therefore frequently changing) demand, EU Member States may allow their national CB laws to calculate these winding-down costs on the basis of a "lump sum calculation".<sup>33</sup>

Major discussions have been triggered by the question of whether the minimum overcollateralisation already provided for in many countries can be used as this lump sum. The European Commission has confirmed this in principle on various occasions. However, it was emphasised that these lump sums cannot be used twice. Thus, anyone using a statutory overcollateralisation provision to cover winding-down costs cannot use the same amount again to meet the overcollateralisation provisions of Article 129 of the CRR. This is already apparent from the fact that the calculation of coverage and the calculation of overcollateralisation are regulated by different pieces of legislation (i.e., the CBD and Article 129 of the CRR).

## **2.8 Requirement for a cover pool liquidity buffer**

Article 16 of the CBD introduces a new element to EU legislation on covered bonds, as the requirement to maintain a liquidity buffer for the "next 180 days" can be found neither in Article 52(4) of the UCITS Directive, nor in Article 129 of the CRR. The aim of this provision is to enhance the quality of covered bonds by increasing the probability that CB creditors will receive timely payment in the event of the insolvency of a CB issuer.

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29 Point (d) of Article 14(2) of the CBD.

30 Article 15(2) of the CBD.

31 Article 15(6) of the CBD. This allows the continuation of the net present value calculation of cover as it is currently regulated in a lot of national CB laws.

32 Point (d) of Article 15(3) of the CBD.

33 Second sentence of Article 15(3) of the CBD.

There were intense discussions on how Article 16 of the CBD could be brought into line with the LCR requirements<sup>34</sup> of general banking supervision law,<sup>35</sup> which lay down criteria for the eligibility of covered bonds as “liquid assets”.

An interim solution was arrived at, resulting in the provision in Article 16(4) of the CBD. Although difficult to understand at first glance, the provision aims to avoid the double burden on CB issuers. According to the provision, national CB legislators may, on a transitional basis, allow the first 30 days of the 180-day liquidity buffer to be covered only by the LCR.<sup>36</sup> This applies until such time as the double burden is eliminated by an amendment to the LCR provisions<sup>37</sup> (work is already underway to amend the LCR Delegated Regulation to eliminate this double burden).<sup>38</sup>

Article 16(5) of the CBD simplifies matters further by permitting national CB legislators to allow maturity extension provisions to be taken into account in the calculation of the liquidity buffer. This also means that the liquidity buffer would only be required for interest liabilities falling due in the next 180 days if either no principal amounts fall due in this period or if principal amounts falling due according to the original payment schedule could be postponed by at least this period.<sup>39</sup>

## **2.9 Conditions for extendable maturity structures**

For a number of years now, numerous CB issuers throughout Europe have outlined in their terms and conditions of issuance that the maturity of their covered bonds may be extended under certain conditions.<sup>40</sup> Given the major significance of this development, it was necessary to include the topic in the CBD.

Article 17 of the CBD grants EU Member States the possibility of allowing the issuance of covered bonds with extendable maturity structures; this is therefore an optional provision. However, at the same time, mandatory requirements apply to these provisions if they are used. The national CB laws can either regulate all details of maturity extension themselves,<sup>41</sup> or limit themselves to the basic principles and leave further design to the CB issuers.

A minimum requirement is that the national CB law has to specify the objective triggers for maturity extension (i.e., these may not be at the discretion of the CB issuer).<sup>42</sup> These maturity extension triggers are to be specified in the contractual terms and conditions of the covered bond.<sup>43</sup> When introducing provisions for maturity extension into national CB laws, the question thus arises of whether this is also possible for covered bonds that have already been issued (i.e., are in circulation). This can occur in two ways:

First, the CB issuer could ask the CB holders for their consent to a subsequent amendment of the terms and conditions of issuance (this approach could be quite costly). Second, Article 30 of the CBD may be applied,

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<sup>34</sup> Liquidity coverage ratio. Commission Delegated Regulation (EU) 2015/61 of 10 October 2014 to supplement Regulation (EU) No 575/2013 of the European Parliament and the Council with regard to liquidity coverage requirement for Credit Institutions.

<sup>35</sup> Article 412 of the CRR regulates the requirement that banks have to be able to provide liquidity for the next thirty days even under stressed conditions.

<sup>36</sup> This, however, weakens covered bonds to a certain extent, as in the event of the insolvency of a CB issuer, for the first 30 days, the liquidity buffer would not be part of the cover assets segregated under insolvency law, but rather would be part of the general insolvency estate.

<sup>37</sup> As the LCR provisions require all liabilities of a CB issuer to be considered, a solution has to be anchored in the LCR legislation.

<sup>38</sup> Even during the work on the CBD, it was suggested that the LCR Delegated Regulation should stipulate that the cover assets should not be treated as encumbered for the purposes of the LCR liquidity analysis, so that they could be counted towards the LCR.

<sup>39</sup> In the CB issuance practices of soft-bullet covered bonds to date, a maturity extension of one year is common, and some even go beyond that. Polish CB law also regulates maturity extensions of one year. There are no known provisions on extensions for less than 180 days.

<sup>40</sup> For an overview of this topic, see Rudolf, Extendable maturity structures – the new standard, ECBC, European Covered Bond Fact Book 2019, pp. 85 et seq.

<sup>41</sup> The first country to include detailed provisions for maturity extensions in its CB law was Poland, which did so in 2016.

<sup>42</sup> Point (a) of Article 17(1) of the CBD.

<sup>43</sup> Point (b) of Article 17(1) of the CBD.

according to which covered bonds issued until 8 July 2022 may be labelled as "Directive-only covered bonds" if, for example, they do not comply with the requirements of Article 17 of the CBD.<sup>44</sup>

A provision is also required whereby a maturity extension does not affect the ranking of CB investors or invert the sequencing of the original maturity schedule.<sup>45</sup> In this respect, it has already been intensively discussed whether this would exclude any change in the sequencing of the servicing of covered bonds in the event of the insolvency of a CB issuer.

Based on the precept of principle-based harmonisation of CBs, it is generally agreed that the CBD does not intend to interfere with the basic structure of CB systems. As such, this provision should be narrowly interpreted as well. Thus, the provision only prohibits changes in the sequencing that would result from the maturity extension and would be to the disadvantage of investors.

## **2.10 Labelling**

Article 27 of the CBD lists two protected labels:

The label "European Covered Bond" may be used for covered bonds that meet the provisions of national law transposing the binding rules of the CBD that apply in the country where the CB issuer has its registered office; and

The label "European Covered Bond (Premium)" may only be used for covered bonds that also meet the requirements of Article 129 of the CRR.

Not every national CB law has to explicitly protect the labelling in the languages of all other EU countries. It is sufficient when a general provision is selected, such as that contained within Article 27 of the CBD.

## **2.11 Transitional measures**

The Directive includes generous grandfathering provisions. The aim is to get a smooth transition towards the new Directive, which should prevent any unintended market distortions. The grandfathering provision of Article 30(1) of the CBD permits covered bonds issued until 8 July 2022 to be designated as covered bonds in accordance with the CBD, even if they do not meet the requirements of various expressly mentioned provisions<sup>46</sup> of the CBD.<sup>47</sup> However, the terms "European" and "Premium" may not be used for such covered bonds.

## **3. Content of the amendment of Article 129 of the CRR**

The most important amendment to Article 129 of the CRR is the provision on the minimum level of overcollateralisation. This minimum level of overcollateralisation is to be calculated based on the liabilities referred to in Article 15(2) and (3) of the CBD.

In accordance with the first sentence of Article 129(3a) of the CRR, the minimum level of overcollateralisation is to be 5%.<sup>48</sup> Here too, principle-based harmonisation comes into play, in that the third sentence of Article 129(3a) of the CRR grants the EU Member States the authority to set a lower level of overcollateralisation or to authorise their competent authorities to set such a level, provided that the minimum level of overcollateralisation is not lower than 2%.

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<sup>44</sup> However, without the additional label of "European" (and definitely not of "Premium") that results from the interaction of Articles 27 and 30 of the CBD.

<sup>45</sup> Point (e) of Article 17(1) of the CBD.

<sup>46</sup> Articles 5 - 12, 15, 16, 17 and 19 of the CBD.

<sup>47</sup> For the application of Article 30 of the CBD when a statutory provision introduces an extension of maturity without (subsequent) changes in the terms and conditions of issuance, see III. 9. a) above.

<sup>48</sup> During the EU legislative process, a statutory minimum level of overcollateralisation as high as 10% was discussed. However, this was not included in the final version of the CB harmonisation package.

The reduction applies to all immovable property cover assets whose valuation is subject to the mortgage lending value. For other cover assets, "the calculation of overcollateralisation is based on a formal approach where the underlying risk of the assets is taken into account";<sup>49</sup> such a reduction must therefore be risk-adjusted.

#### **4. European Commission and EBA tasks**

Through Article 31 of the CBD, the EU legislator has given several tasks to the European Commission and the EBA to complete:

- > By 8 July 2024: The development of an equivalence regime for the regulatory treatment of covered bonds issued by third-country credit institutions;<sup>50</sup>
- > By 8 July 2025: The submission of a report on the implementation of the Directive in national law, as well as on the developments regarding permissions to issue covered bonds, cover assets, overcollateralisation, cross-border investments in covered bonds, the issuance of covered bonds with extendable maturity structures, and any recommendations for further action;<sup>51</sup>
- > By 8 July 2024: The commissioning of a study on the risks and benefit arising from covered bonds with extendable maturity structures;<sup>52</sup>
- > By 8 July 2024: The adoption of a report on the possibility of introducing a dual-recourse instrument named a European Secured Note (ESN).<sup>53</sup>

#### **III. SUCCESS OF THE INSTRUMENT**

To conclude, the covered bond is one of the key components of European capital markets, providing a stable funding tool to banks and a high-quality investment to investors. The volume of covered bonds outstanding at the end of 2020 amounted to over 2.9 tn EUR (covered bonds covered by mortgage loans, public-sector loans and ship loans). In descending order, the five largest issuing countries in 2020 were Denmark, Germany, France, Spain and Sweden.

Covered bonds play an important role in the financial system and thereby contribute to the efficient allocation of capital and ultimately economic development and prosperity. The importance of covered bonds is also evidenced by the broad variety of different bond formats and currencies under which the product is issued and by the large investor base. Both subjects are addressed in the key themes section.

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<sup>49</sup> Point (a) of the third sentence of Article 129(3a) of the CRR.

<sup>50</sup> Article 31(1) of the CBD.

<sup>51</sup> Article 31(2) of the CBD.

<sup>52</sup> Article 31(4) of the CBD.

<sup>53</sup> Article 31(5) of the CBD.

> FIGURE 4: VOLUME OUTSTANDING COVERED BONDS IN EUROPE END OF 2020 IN EUR MILLION

	<b>Public Sector</b>	<b>Mortgage</b>	<b>Ships</b>	<b>Others</b>	<b>Mixed Assets</b>	<b>TOTAL</b>
Austria	18,348	59,601	-	-	-	77,949
Belgium	2,461	41,062	-	-	-	43,523
Cyprus	-	650	-	-	-	650
Czech Republic	-	18,185	-	-	-	18,185
Denmark	12,872	419,031	5,680	-	-	437,583
Estonia	-	850	-	-	-	850
Finland	-	43,855	-	-	-	43,855
France	68,123	221,821	-	-	55,824	345,767
Germany	123,425	246,311	2,212	-	-	371,947
Greece	-	10,890	-	-	-	10,890
Hungary	-	4,526	-	-	-	4,526
Ireland	178	16,816	-	-	-	16,995
Italy	4,075	171,102	-	-	-	175,177
Latvia	-	-	-	-	-	-
Luxembourg	5,767	-	-	300	-	6,067
The Netherlands	-	154,505	-	-	-	154,505
Poland	58	5,776	-	-	-	5,834
Portugal	600	38,350	-	-	-	38,950
Slovakia	-	7,337	-	-	-	7,337
Spain	18,262	231,143	-	7,397	-	256,802
Sweden	-	247,713	-	-	-	247,713
Total EU	254,168	1,939,524	7,892	7,697	55,824	2,265,105
Iceland	-	3,330	-	-	-	3,330
Norway	2,580	131,713	-	-	-	134,294
Total EEA	256,749	2,074,567	7,892	7,697	55,824	2,402,728
Australia	-	62,592	-	-	-	62,592
Brazil	-	3,199	-	-	-	3,199
Canada	-	168,195	-	-	-	168,195
Japan	-	5,322	-	-	-	5,322
New Zealand	-	9,692	-	-	-	9,692
Panama	-	33	-	-	-	33
Singapore	-	8,815	-	-	-	8,815
South Korea	-	7,928	-	-	-	7,928
Switzerland	-	140,617	-	-	-	140,617
Turkey	-	1,755	-	-	-	1,755
United Kingdom	667	97,124	-	-	-	97,791
United States	-	-	-	-	-	-
Total non EU	3,247	640,315	-	-	-	643,563
Total non EEA	667	505,272	-	-	-	505,939
<b>Grand Total</b>	<b>257,416</b>	<b>2,579,839</b>	<b>7,892</b>	<b>7,697</b>	<b>55,824</b>	<b>2,908,668</b>

Source: EMF-ECBC

Notes: Please refer to section 5 for additional information on the ECBC statistics.

## **2.2 REGULATORY ISSUES**

### **2.2.1 COVERED BONDS AND EU BANKING REGULATIONS**

By Frank Will, HSBC & Chairman of the ECBC EU Legislation Working Group

Over the last decade, covered bonds were able to ensure a preferential regulatory treatment compared to many other asset classes reflecting the strengths and low risks of the product. The most important regulatory rules include the Bank Recovery and Resolution Directive (BRRD) which exempts covered bonds from bail-in, the Liquidity Coverage Ratio (LCR) which categorises covered bonds as highly liquid assets, the Capital Requirement Regulation (CRR) which assigned low risk weights to covered bonds and, last but not least, Solvency II which grants low spread risk factors to covered bonds. The last two play a very important role for the banking sector and the insurance industry, respectively.

In addition, there are currently several other initiatives by European and global regulators under way which could have wider implications for the covered bond product and the issuers of covered bonds. Above all, the European Covered Bond Directive and Regulation, which aims at further harmonising the covered bond market in Europe and will apply from 8 July 2022, will have a wide-spread impact on the covered bond markets not only in the Europe but also across the globe. Below we provide an overview of the planned or currently discussed major regulatory amendments which could affect covered bonds.

#### **I. COVERED BOND HARMONISATION**

In January 2020, the covered bond harmonisation package entered in force and the EU member states had until 8 July 2021 to transpose it into national law. Both the Covered Bond Directive and the Covered Bond Regulation will apply from 8 July 2022 onwards. The EU approach in harmonising the covered bond market is largely principle-based and incorporates many ideas that were initially suggested by the European Banking Authority (EBA). It consists of two parts:

- > A new EU directive on covered bonds, replacing the provisions of Art. 52 UCITS and defining the key structural elements that should be common to all EU Covered Bonds. The idea is that the covered bond directive will be the point of reference for prudential regulatory purposes. It also introduces a European covered bond label.
- > Amendments to Art. 129 CRR which include additional requirements that covered bonds have to fulfill in order to continue to benefit from a preferential capital treatment. This includes a new 5% minimum overcollateralisation (OC) requirement. National regulators may, however, apply a lower minimum OC if certain conditions are met. The limit cannot, however, be lower than 2%.

Figure 1 summarises the key features of the new directive and the proposed CRR amendments.

FIGURE 1: COVERED BOND HARMONISATION PROPOSAL BY THE EUROPEAN COMMISSION

<b>Covered Bond Directive</b>	<b>Amendments of Art. 129 CRR</b>
<ul style="list-style-type: none"><li>&gt; Requirements for regulatory recognition of covered bonds; replacement of Art. 52 (4) UCITS</li><li>&gt; Base-line covered bond definition (dual recourse, segregation of assets, bankruptcy remoteness, public supervision, liquidity buffer)</li><li>&gt; Structural features include soft bullet and CPT features</li><li>&gt; Extended transparency requirements (moved from CRR)</li></ul>	<ul style="list-style-type: none"><li>&gt; Enhanced requirements for preferential capital treatment</li><li>&gt; Credit risk related features:<ul style="list-style-type: none"><li>- eligibility of cover assets</li><li>- substitution assets</li><li>- LTV limits</li><li>- minimum OC between 2-5%</li></ul></li></ul>

Source: HSBC, EBA

Following the publication of the new covered bond directive in the Official Gazette on 18 December 2019 and the entering into force on 7 January, national lawmakers had 18 months until 8 July 2021 to transpose the Covered Bond Directive into national law, leaving scope for limited national discretion. The provisions of the

national laws shall apply at latest 12 months after the transposition deadline. This means that starting from 8 July 2022 the amended national laws must apply.

The CRR amendments on the other hand do not have to be transposed into national law as the regulation is directly applicable and will apply from the same date the Covered Bond Directive is applied.

## **II. BASEL III**

In December 2017, the Basel Committee on Banking Supervision (BCBS) published the Basel III reform package. It encompasses a long list of changes including a revision to the Standardised Approach, a cutback on the (advanced) internal ratings-based approach and the introduction of an output floor which will be phased in over five years from 50% in 2023 to 72.5% in 2028 after the implementation dates were deferred by one year in March 2020 in light of the COVID-19 pandemic. The output floor limits the extent to which banks' risk-weighted assets generated by internal models can be lower than calculated by the standardised approaches. The next step will be the implementation of these revised standards into national law which allow the national regulators to make some country-specific adjustments. The EU will also update the Capital Requirements Regulation (CRR) to reflect the amendments at Basel level. The revised Basel III standard will take effect from 1 January 2023 (following the above mentioned 1-year deferral in response to the COVID-19 crisis).

Moreover, the reforms introduced preferential risk weights for covered bonds and define the minimum standards that covered bonds must fulfil: According to the Basel document, "covered bonds are bonds issued by a bank or mortgage institution that are subject by law to special public supervision designed to protect bond holders. Proceeds deriving from the issue of these bonds must be invested in conformity with the law in assets which, during the whole period of the validity of the bonds, are capable of covering claims attached to the bonds and which, in the event of the failure of the issuer, would be used on a priority basis for the reimbursement of the principal and payment of the accrued interest."

In order to be eligible for the lower risk weights, cover assets are limited by the Basel Committee to:

- > claims on, or guaranteed by, sovereigns, their central banks, public sector entities or multilateral development banks;
- > claims secured by residential real estate with a LTV ratio of 80% or lower;
- > claims secured by commercial real estate with a LTV ratio of 60% or lower; or
- > claims on, or guaranteed by banks that qualify for a 30% or lower risk weight. However, such assets cannot exceed 15% of covered bond issuances.

That means covered bonds backed by ship or aircraft loans will not benefit from a preferential risk weight under the Basel rules. Moreover, the required minimum overcollateralisation (OC) is set at 10% on a nominal basis. Importantly, the 10% level does not have to be required by law. However, if the minimum OC is not required by law, the issuer has to publicly disclose on a regular basis that its cover pool meets the required 10% minimum OC.

Moreover, "substitution assets (cash or short-term liquid and secure assets held in substitution of the primary assets to top up the cover pool for management purposes) and derivatives entered into for the purposes of hedging the risks arising in the covered bond program" may form part of the cover pool.

Finally, the Basel Committee sets out minimum disclosure requirements. The bank investing into covered bonds must demonstrate to its national supervisors that:

- (a) it receives portfolio information at least on: (i) the value of the cover pool and outstanding covered bonds; (ii) the geographical distribution and type of cover assets, loan size, interest rate and currency risks; (iii) the maturity structure of cover assets and covered bonds; and (iv) the percentage of loans more than 90 days past due;
- (b) the issuer makes the information referred to in point (a) available to the bank at least semi-annually.

## Risk weights

Should the covered bond fulfill the requirements set out above, the risk weight should be determined by the issue-specific rating or – if the covered bond itself is unrated – by the risk weight of the issuer as set out in figures 2 and 3.

FIGURE 2: RISK WEIGHTS FOR RATED AND UNRATED COVERED BOND EXPOSURES

Rated Covered Bonds:					
Issue-specific covered bond rating	AAA to AA-	A+ to A-	BBB+ to BBB-	BB+ to B-	Below B-
"Base" risk weight	10%	20%	20%	50%	100%
Unrated Covered Bonds:					
Risk weight of the issuing bank	20%	30%	40%	50%	75%
"Base" risk weight	10%	15%	20%	25%	35%
				50%	100%
					150%

Source: BIS, HSBC

However, to reduce the dependence on external ratings, "banks must perform due diligence to ensure that the external ratings appropriately and conservatively reflect the creditworthiness of the covered bond and the issuing bank. If the due diligence analysis reflects higher risk characteristics than that implied by the external rating bucket of the exposure (ie AAA to AA-; A+ to A- etc), the bank must assign a risk weight at least one bucket higher than the "base" risk weight determined by the external rating. Due diligence analysis must never result in the application of a lower risk weight than that determined by the external rating". Therefore, in some cases a higher risk weight than shown in figure 1 might be applicable.

## Market impact

As most benchmark programmes already fulfil most of the necessary requirements – only the OC is slightly lower in some cases – the effort of the covered bond issuers to fulfil these new Basel requirements should be manageable. Regarding the investor demand, the new rules – which are due to apply from January 2023 onwards – should help to further broaden the investor base for covered bonds on a global scale. Covered bond demand by European bank treasuries and the ECB's purchase programme currently play an important role but the preferential risk weights to covered bonds outside of the European Economic Area will likely support the covered bond market in the future.

## III. CAPITAL MARKET UNION: EUROPEAN SECURED NOTES (ESN)

Back in February 2015, the European Commission published a Green Paper on "Building a Capital Markets Union". The aim of the Capital Markets Union (CMU) is to improve long-term financing of the European economy by overcoming the adverse effects of financial fragmentation in Europe and to achieve a better allocation of financial resources across Europe. The Green Paper focuses, in particular, on the SME sector in Europe and argues for a much broader approach on long-term financing going well beyond traditional funding provided by banks.

In response to the European Commission initiative, the European Covered Bond Council (ECBC) suggested in May 2015 the introduction of a new dual recourse financial instrument in the European Union to address a funding segment located between the traditional covered bond and high-quality securitisation: the so-called European Secured Notes (ESN). The ESN would benefit from the market best practices of both traditional covered bonds (for funding purposes) and securitisation (for funding and risk-sharing purposes). Such an instrument could be backed by SME loans or other types of assets, such as infrastructure loans, and could contribute to the CMU growth objective.

In June 2018, the European Banking Authority (EBA) published its recommendations on ESNs. The EBA emphasised the importance of separating ESNs from traditional covered bonds and estimates that the aggregated pool

of collateral (SME and infrastructure exposures) that would be available for re-financing through ESNs could be as high as EUR4 tn. Moreover, the EBA estimates a potential market size between EUR400bn and EUR1.2 tn based on a coverage comparable to mortgage loans (Figure 3). Since 2003, between 15% and 25% of all residential mortgage loans in the EU have been refinanced via covered bonds. However, if ESNs did not benefit from the same regulatory treatment as covered bonds, the potential market size could be substantially smaller.

FIGURE 3: ESTIMATES OF THE SIZE OF THE ESN MARKET IN THE NEAR TERM (EURBN)

	Share of SME and infrastructure loans used to issue ESNs			
	100%	10%	20%	30%
SME loans	3,100	310	620	930
Infrastructure loans	800	80	170	250
Total ESNs market	3,900	390	790	1,180

Source: EBA, HSBC (EBA calculations)

The EBA estimates that the rise of asset encumbrance caused by the introduction of ESNs shouldn't be a concern for the EU banking system as a whole. It could, however, pose additional risks at a national level or at the level of individual issuers. The EBA therefore suggests the introduction of potential asset encumbrance limits at a national level or for specific institutions.

### **III.1 Regulatory treatment of SME ESNs**

As SME ESNs would be structured as dual recourse instruments, the EBA considers – with some adjustments – all of its Best Practices Guidelines on covered bonds to be appropriate for SME ESNs. The EBA proposed stricter cover asset eligibility criteria compared to covered bonds – both at loan and pool levels – to account for the higher risk of SME exposures compared to traditional collateral for covered bonds. Moreover, the EBA recommends a mandatory overcollateralisation of at least 30%.

According to the EBA, a preferential risk weight under the CRR would not be appropriate based exclusively on the underlying assets. However, given the structure of the ESN, a different risk weight requirement compared with unsecured exposure could be considered, which should take into account:

- > The dual-recourse character of the instrument;
- > The overall consistency of the CRR capital framework between exposure classes;
- > A clear distinction between SME ESNs and covered bonds that should be maintained to avoid potential negative side effects on the covered bond market.

The prudential treatment of SME ESNs under the LCR cannot be assessed currently as the instrument does not exist yet and its liquidity cannot be measured. However, given ESNs are issued by credit institutions and fundamental features of covered bonds are met, a preferential investment threshold under UCITS could be considered, according to the EBA. Along the same lines of argument, an exemption from posting collateral under EMIR could be considered. Last but not least, SME ESNs should be exempted from bail-in under the BRRD in line with other secured liabilities.

### **III.2 Regulatory treatment of infrastructure ESNs**

In contrast to SME ESNs, a dual recourse structure would not be appropriate for infrastructure exposure, according to the EBA, "given the bespoke nature, the complex structure and the lack of granularity characterising infrastructure loans." More specifically, the infrastructure project asset class is more heterogeneous and covers a wide range of very diverse assets. Moreover, the credit risk of infrastructure loans is much higher during the construction phase than in the operational phase (Figure 4). The EBA therefore recommends restricting cover assets to project finance loans in the operational phase.

FIGURE 4: DISTRIBUTION OF DEFAULTS AND ULTIMATE RECOVERIES BY PROJECT PHASE

	Defaults	Average years to default	Recovery rates
Construction	28	2.7	66%
Operational	161	4.9	76%
Total	189	4.6	74%

Source: EBA, HSBC

As the EBA advised against dual-recourse for infrastructure ESNs, it did not assess the potential regulatory treatment. However, the EBA views the introduction of an EU infrastructure bond as an off-balance-sheet instrument for high-quality project finance loans as something worth considering.

The ESN project has gained in importance due to both the launch of the European Commission's new CMU Action Plan in September 2020 and the potential use of ESNs as a recovery tool. In accordance with the provisions of the Covered Bond Directive and as also indicated in the CMU Action Plan, the European Commission must prepare a report on the potential of ESNs in Europe by 8 July 2024 and may choose to propose a subsequent legislative initiative. Against this backdrop, the ECBC – via its ESN Task Force – has accelerated its work on the ESN concept through dialogue with ECBC member institutions as well as important external stakeholders such as the European Bank for Reconstruction and Development (EBRD), the European Investment Bank (EIB) and a wide array of other interested parties including investors, issuers, rating agencies and business associations. In April 2021, the ECBC prepared the ESN Blueprint highlighting areas where a common understanding has been achieved amongst ECBC members and stakeholders from across the EU based on market analysis and best practices. The Blueprint focuses on three main areas: (i) the business case, (ii) eligibility criteria and (iii) the analysis of structural features.

From a banking industry perspective, the introduction of ESNs as standardised dual-recourse funding tool to refinance SME loans would be an interesting funding alternative for banks. While it may be of limited added value in the current compressed yield environment, it can gain in importance if the market levels start to normalise and the risk premiums demanded by market participants increase. It could also play an important role in the recovery process in the aftermath of the COVID-19 pandemic. As highlighted by the EBA it is crucial to maintain a clear distinction between ESNs and covered bonds given the higher risk of the underlying SME collateral compared to mortgage and public sector assets. Crucial for the success of such a tool in terms of new issue volumes and achievable funding levels would also be a positive regulatory recognition of this financial instrument.

#### **IV. NET-STABLE FUNDING RATIO (NSFR)**

The Basel III framework and the Capital Requirement Regulation (CRR) introduced two liquidity standards: The Liquidity Coverage Requirement (LCR) and the Net-Stable Funding Ratio (NSFR). While the LCR rules have been phased-in in Europe since October 2015, the NSFR rules enter into force on 28 June 2021 following the adoption by the European Parliament in May 2019. At the Basel level, the NSFR already came into force for internationally active banks on 1 January 2018.

Principally, the NSFR is calculated as the ratio of Available Stable Funding (ASF) to Required Stable Funding (RSF), which has to be greater than 100%. ASF and RSF are calculated on the liabilities and assets, respectively, weighed by specific factors. These factors depend among others on the remaining maturity, the type of assets and the encumbrance status.

Available Stable Funding (ASF)

$$\text{NSFR} = \frac{\text{Available Stable Funding (ASF)}}{\text{Required Stable Funding (RSF)}} \geq 100\%$$

Required Stable Funding (RSF)

## **V. LEVERAGE RATIO**

In order to “prevent institutions from excessively increasing leverage” (European Commission, November 2016), the Basel Committee and the EU have created an additional defence line: the leverage ratio. The leverage ratio complements the risk-weighted capital requirements “by providing a safeguard against unsustainable levels of leverage and by mitigating gaming and model risk across both internal models and standardised risk measurement approaches” (Basel Committee, December 2017). The BCBS requires banks to maintain a leverage ratio of 3%. Global Systemically Important Banks (G-SIBs) are subject to even higher ratios. The 3% leverage ratio became binding in the EU on 28 June 2021. Thus EU banks had been required to disclose the leverage ratio since the beginning of 2015. In light of the COVID-19 pandemic, the ECB allowed in September 2020 Eurozone banks under its direct supervision to exclude certain central bank exposures from the leverage ratio calculation. In June 2021, this relief measure was extended until end-March 2022.

## **VI. LIQUIDITY COVERAGE RATIO (LCR)**

In October 2014, the European Commission published its delegated act on the liquidity coverage ratio (LCR) which requires banks to hold a certain amount of liquid assets to cover their net cash outflows over 30 days. The LCR has been phased-in since October 2015 and was fully implemented at the beginning of 2018 which is one year earlier than demanded by the Basel standard. This phase-in period granted credit institutions sufficient time to build up their liquidity buffers, whilst preventing a disruption of the flow of credit to the real economy during the transitional period.

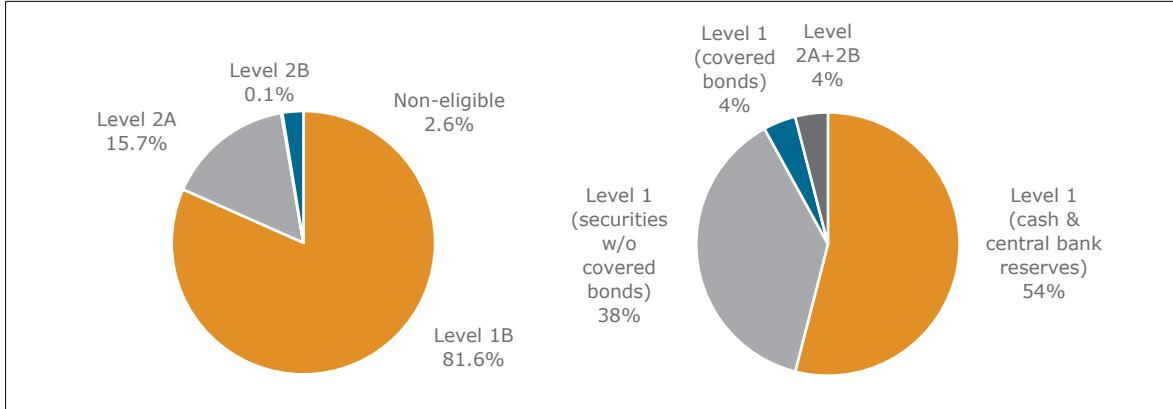
In a stress scenario when a bank need its liquid assets, its LCR levels could (temporarily) fall below 100%. However, the bank would be required to immediately notify the competent authorities and submit a plan for the timely restoration of the LCR to above the 100% threshold.

As the liquidity buffer is to reach a considerable level of a bank’s balance sheet (10% or more of the total assets of an average EU bank according to European Banking Authority (EBA) estimates), the implementation of the LCR is likely to sustain the demand for eligible bonds.

Figure 5 provides a breakdown of the EUR benchmark covered market by LCR level. More than four-fifths of the covered bonds are Level 1, roughly 16% are Level 2A and only 0.1% are Level 2B as this category currently merely consist of Greek covered bonds. Less than 3% of the EUR benchmark covered bonds are not LCR eligible.

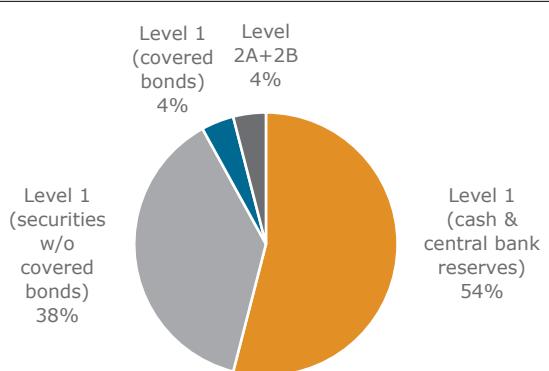
The breakdown of the actual liquidity buffers shows that the share of covered bonds in the LCR portfolios is relatively small as most banks tend to focus on cash, central bank reserves and government bonds to fulfil their LCR requirements. According to the LCR report by the European Banking Authority (EBA) from December 2020, the 159 EU banks (incl. subsidiaries) participating in the Quantitative Impact Study (QIS) held around 18% of their total assets at the end of June 2020 in form of liquid assets. Level 1 assets (excluding covered bonds) made up about 92% of the liquid buffers, including 54% cash & central bank reserves and 38% other eligible securities. In contrast, the share of Level 1 covered bonds is slightly above 4% while Level 2A and Level 2B assets (including but not limited to covered bonds) add up to about 4% (Figure 6).

> FIGURE 5: CLASSIFICATION OF COVERED BONDS



Source: HSBC, Bloomberg (only EUR benchmark covered bonds)

> FIGURE 6: USAGE OF COVERED BONDS



Source: EBA, QIS data as of end-June 2020

### **Quick overview of the various LCR classifications**

Level 1 assets ('Extremely High Quality Liquid Assets') include cash, deposits at the central bank, all types of bonds issued or guaranteed by the EU Member States' central government, covered bonds that meet certain conditions, as well as certain agency and supranational issues. Regarding the classification of EU sovereign bonds, no distinction was made between member states as that could have led to a fragmentation of the internal market and potential contagion risk.

Level 2A assets ('High Quality Liquid Assets') include exposures to regional governments, local authorities or public sector entities (PSEs) with a risk weight of 20% and covered bonds with a credit quality step 2 rating (at least A-) and non-EU covered bonds rated at credit quality step 1 (at least AA-). Corporate bonds with at least credit quality step 1, a minimum issue size of EUR250m and maximum maturity of 10 years at the time of issuance are also classified as Level 2A.

Level 2B assets ('High Quality Liquid Assets') incorporate high quality securitisations for RMBS, auto, SME and consumer loans and high quality covered bonds that do not meet the rating threshold of Level 1 and 2A. Shares meeting certain conditions and corporate bonds with at least credit quality step 3 (at least BBB-), a minimum issue size of EUR250m and maximum maturity of 10 years at the time of issuance are accepted as Level 2B.

### **Classification of covered bonds**

**Level 1 HQLAs** include covered bonds that meet certain conditions, including being issued by an issuer in the European Economic Area (EEA), having a credit quality step 1 (at least AA-), a minimum size of EUR500m equivalent and a minimum overcollateralisation of 2%. The rating threshold will be based on a second-best rating approach in line with capital requirement rules (CRR) rather than on the ECB's best rating rule. Whilst other Level 1 assets are not subject to either liquidity buffer limits or to a haircut to their market value, Level 1 covered bonds will be subject to a 70% cap in the liquidity buffer and a 7% haircut.

### **Level 2A HQLAs** include:

- > EEA covered bonds with a credit quality step 2 rating (A- or better), a minimum size of EUR250m equivalent and minimum overcollateralisation of 7%;
- > EEA covered bonds with a credit quality step 1 rating (AA- or better) and an issue size below the EUR500m threshold (but still meeting the minimum size of EUR250m equivalent) need a lower minimum overcollateralisation of 2%;

- > Non-EEA covered bonds rated at credit quality step 1 (AA- or better) with a minimum overcollateralisation of 7%. There is no minimum size requirement. However, bonds with a size of EUR500m equivalent or more only need a minimum overcollateralisation of 2%. Moreover, the national covered bond law has to fulfil the CRR or UCITS requirements other than the issuer being based in EU.

Level 2A covered bonds can be used for up to a maximum of 40% in the liquidity buffer and are subject to a 15% haircut.

**Level 2B HQLAs** can be used for up to a maximum of 15% in the liquidity buffer and are subject to a minimum haircut varying between 25% and 50%. High quality EEA covered bonds that do not meet the rating threshold of Level 1 and 2A fall under this category. There are additional requirements for the cover assets which are limited to public sector and central bank exposures in EEA countries, residential mortgages (max 80% LTV) and guaranteed residential mortgages. The haircut for these covered bonds is relatively high at 30% and the cap is set at 15%.

Furthermore, in order to qualify, EEA covered bonds must be UCITS or CRR compliant. Non-EEA covered bonds must have a national covered bond law. In addition, all covered bonds must fulfil the transparency requirements of Article 129 (7) CRR.

#### **Basel's LCR rules are less favourable**

The BCBS LCR rules are less favourable than the EU regulation. Under the Basel rules, covered bonds are defined as bonds issued and owned by a bank or mortgage institution that are subject by law to special public supervision designed to protect bondholders. Issue proceeds must be invested in conformity with the law in assets which, during the entire period until the maturity of the bonds, are capable of covering the preferential claims of the covered bond investors.

On top of that, covered bonds have to (i) be rated AA- (second-highest rating), (ii) have a proven track record as a reliable source of liquidity reflected by a maximum price drop of 10% over 30-day period of stress, (iii) be traded in large, deep and active repo/cash markets with a low level of concentration, and (iv) cannot be issued by the submitting bank itself. Covered bonds meeting these criteria qualify as Level 2A assets rather than Level 1 as under the EU rules and are therefore subject to a haircut of 15% and a cap of 40%.

In July 2017, the BCBS stated that the LCR rules in the EU are not fully aligned with international standards. In particular, the inclusion of high-quality covered bonds as Level 1 assets was criticised. The EU responded to the BCBS comment by highlighting that "the limited broadening of HQLA definition reflects European or national specificities and remains largely consistent with the Basel III LCR Standards. In particular, evidence demonstrates the equivalent liquidity of the additional assets included and, therefore, the choice made is fully consistent with the spirit of the Basel Committee's agreement. [...] The inclusion, under strict conditions, of extremely high-quality covered bonds in Level 1 is motivated by the liquidity patterns of these instruments, which, over long periods of observation, including times of stress, have exhibited liquidity characteristics equivalent to other eligible Level 1 assets".<sup>1</sup>

#### **VII. CAPITAL REQUIREMENT REGULATION (CRR)**

The CRR came into force on 1 January 2014. It assigns relatively low risk weights to covered bonds meeting certain criteria. As part of the covered bond harmonisation process, the CRR was overhauled but these changes will not enter into force before 8 July 2022 (please see the separate section "Covered Bond Harmonisation" for more details). Under current rules, covered bonds have to fulfil the requirements of Article 52(4) of the EU Directive 2009/65 (Directive on Undertakings of Collective Investment in Transferable Securities – UCITS) in

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<sup>1</sup> Basel Committee on Banking Supervision: Assessment of Basel III LCR regulations – European Union, July 2017.

order to be eligible for the preferential risk weights. On top of that, they have to meet the additional eligibility criteria for cover assets of Article 129 CRR.

Article 52(4) UCITS requires that:

- > covered bonds are issued by a EU credit institution;
- > they are subject by law to special public supervision designed to protect bondholders;
- > the issue proceeds are only invested in eligible assets in accordance with the law;
- > the bonds are backed by eligible assets during the entire period until their maturity, and
- > in the event of issuer default, investors have a preferential claim on the cover assets covering principal and accrued interest.

Article 129 CRR goes beyond the UCITS requirements and demands that the bonds are only collateralised by the following assets (please note that the rating requirements refer to the credit quality step definition by the EU and generally focus on the second-best rating in case of split ratings):

- (a) exposures to or guaranteed by central governments, Eurosystem central banks, public sector entities, regional governments or local authorities in the EU;
- (b) exposures to or guaranteed by third-country central governments and central banks, multilateral development banks, international organisations rated at least AA-, and exposures to or guaranteed by third-country public sector entities, regional governments and local authorities that are rated at least AA- and are risk weighted as exposures to credit institutions, central governments or central banks; lower rated exposures with a minimum rating of A- cannot exceed 20% of the nominal amount of outstanding covered bonds;
- (c) exposures to credit institutions with a minimum rating of AA-. The total exposure shall not exceed 15% of the nominal amount of outstanding covered bonds. The supervisory authorities can allow, after consulting EBA, a lower minimum rating of A- for up to 10% of the total outstanding covered bonds, provided that the application of the higher rating requirement would potentially result in concentration problems. Exposures to EU credit institutions with a maturity not exceeding 100 days shall not be comprised by the AA- requirement but those institutions shall have a minimum rating of A-;
- (d) loans secured by residential property up to an LTV of 80%; or by senior RMBS tranches issued by securitisation entities governed by the laws of a member state. The supervisory authority has to ensure that at least 90% of the underlying assets are composed of residential mortgages that have a maximum LTV of 80%. The senior tranches have to have a minimum rating of AA- and do not exceed 10% of the nominal amount of the outstanding issue;
- (e) French residential loans with an LTV of up to 80% and a loan-to-income ratio not exceeding 33% which are fully guaranteed by an eligible protection provider rated at least A-. There shall be no mortgage liens on the residential property when the loan is granted, and for the loans granted from 1 January 2014 the borrower shall be contractually committed not to grant such liens without the consent of the credit institution that granted the loan. The protection provider shall be a supervised financial institution subject to prudential requirements comparable to those applied to credit institutions. Both the credit institution and the protection provider shall carry out a creditworthiness assessment of the borrower;
- (f) loans secured by commercial immovable property up to an LTV of 60% or by senior CMBS tranches issued by securitisation entities governed by the laws of a member state. The supervisory authority has to ensure that at least 90% of the underlying assets are composed of commercial mortgages that have a maximum LTV of 60%. The senior tranches have to have a minimum rating of AA- and do not

exceed 10% of the nominal amount of the outstanding issue. Commercial mortgage with an LTV of up to 70% can be included if the overcollateralisation is at least 10%;

- (g) ship mortgage loans with an LTV of up to 60%.

### **Transparency requirement**

Article 129(7) CRR defines certain transparency requirement for covered bonds. It states that covered bonds are eligible for preferential treatment if the covered bond investor can demonstrate to its regulatory authorities that portfolio information are provided by the issuer at least semi-annually:

- > Value of the cover pool and outstanding covered bonds;
- > Geographical distribution;
- > Type of cover assets;
- > Loan size;
- > Interest rate and currency risks;
- > Maturity profile of cover assets and covered bonds;
- > Percentage of loans more than 90 days past due.

### **Standardised Approach**

Covered bonds fulfilling the aforementioned criteria are eligible for a preferential risk weight under the CRR. In contrast to previous regulation, the risk weights under the Standardised Approach are based on the covered bond ratings rather than the issuer ratings. Figure 7 shows that covered bonds rated at least AA-/Aa3 qualify for a 10% risk weighting which increases to 20% for bonds being rated from A+/A1 to BBB-/Baa3. For non-investment grade covered bonds rated at least B-/B3 the risk weight is 50%.

FIGURE 7: RISK WEIGHTINGS OF RATED COVERED BONDS UNDER THE STANDARDISED APPROACH

Credit quality step (covered bonds)	1	2	3	4	5	6
Covered bond rating	AAA to AA-	A+ to A-	BBB+ to BBB-	BB+ to BB-	B+ to B-	below B-
Covered bond risk weight	10%	20%	20%	50%	50%	100%

Source: EU, HSBC (Mapping of credit quality steps to rating is based on the second-highest eligible rating in case of split-ratings)

In case of unrated covered bonds, the risk weighting is linked to the issuer rating. However, the risk weights of the covered bonds are significantly lower than those for senior unsecured exposures (see Figure 8 below).

FIGURE 8: RISK WEIGHTINGS OF UNRATED COVERED BONDS UNDER THE STANDARDISED APPROACH

Credit quality step (Issuer)	1	2	3	4	5	6
Issuer rating	AAA to AA-	A+ to A-	BBB+ to BBB-	BB+ to BB-	B+ to B-	below B-
Issuer risk weight	20%	50%	50%	100%	100%	150%
Covered bond risk weight	10%	20%	20%	50%	50%	100%

Source: EU, HSBC (Mapping of credit quality steps to rating is based on the second-highest eligible rating in case of split-ratings)

Non-CRR compliant covered bonds are generally treated as exposures to credit institutions according to Art. 120 CRR. The risk weighting of the bonds, however, will be based on the actual issue/programme rating rather than the issuer rating (Art 139 (1) CRR). This means that a AAA-rated non-CRR compliant covered bond issued by a single-A rated issuer would have a 20% risk weight (rather than a 50% risk weight).

### **The Internal Ratings-Based Approach (IRBA)**

Under the CRR, banks can opt for using approaches based on internal ratings. Under these Internal Ratings-Based Approaches (IRBA), risk weight calculations are based upon a complex formula. This formula uses as inputs the probability of default within a one-year horizon (PD), the loss given default (LGD), the exposure at default (EAD) and the effective time to maturity (M) of the individual securities.

Under the Foundation IRB (FIRB), financial institutions have to estimate PD based upon their internal risk-scoring models; PD refers to the exposure to the corporate/institution, not the bond itself, and is floored at 0.03%. M should be set to 0.5 years in case of repo transactions and to 2.5 years when assessing all other exposures; M can upon approval from the regulator also be fixed at actual maturity but not shorter than one year and not longer than five. Covered bonds meeting the aforementioned eligibility criteria may be assigned an LGD value of 11.25%.

If a financial institution opts for the Advanced IRB (AIRB) instead, it will have to assess all risk components on an individual basis. Under both approaches, irrespective of the country or region within which the bank holding the covered bond is incorporated, the PD to be employed will always only reflect the PD of the issuer. The PD of the collateral pool is not relevant. In no case can the PD be less than 0.03%. Institutions that opt for the advanced approach may use an LGD lower than 11.25%. Those banks will also use the actual M, though the value will be capped for value below 1 and value above 5.

Figure 9 below shows the risk weighting for different PD assumptions and maturities. In all cases, the LGD is set at 11.25%. In case of the FIRB, the maturity is set at M = 2.5 years – this is highlighted in grey in the figure. The PD is based on Moody's default statistics (for the years 1983-2019), floored at 0.03%. A covered bond issued by a bank with an internal issuer rating equivalent to single-A (which translates into a 1-year PD of 0.06%) and a maturity of 5 years would have a risk weight of 5.81% under the FIRB and of 9.81% under the AIRB.

FIGURE 9: INTERNAL RISK WEIGHTS OF COVERED BONDS UNDER THE FIRB AND THE AIRB

Issuer rating equivalent	PD used	Maturity in years					
		1	2	2.5	3	4	5
<b>Aaa/AAA</b>	0.03%	2.01%	3.22%	3.83%	4.43%	5.65%	6.86%
<b>Aa/AA</b>	0.03%	2.01%	3.22%	3.83%	4.43%	5.65%	6.86%
<b>A/A</b>	0.06%	3.41%	5.01%	5.81%	6.61%	8.21%	9.81%
<b>Baa/BBB</b>	0.17%	7.14%	9.47%	10.64%	11.80%	14.13%	16.46%
<b>Ba/BB</b>	0.85%	18.05%	21.37%	23.04%	24.70%	28.02%	31.34%
<b>B/B</b>	3.21%	29.79%	33.05%	34.69%	36.32%	39.59%	42.85%
<b>below B</b>	9.52%	45.63%	48.70%	50.24%	51.78%	54.85%	57.93%

Source: EU, Moody's, HSBC (FIRB: M= 2.5 years; PD is based on Moody's figures and is floored at 0.03%)

With regard to the relevant insurance regulation at European level, please refer to the following article.

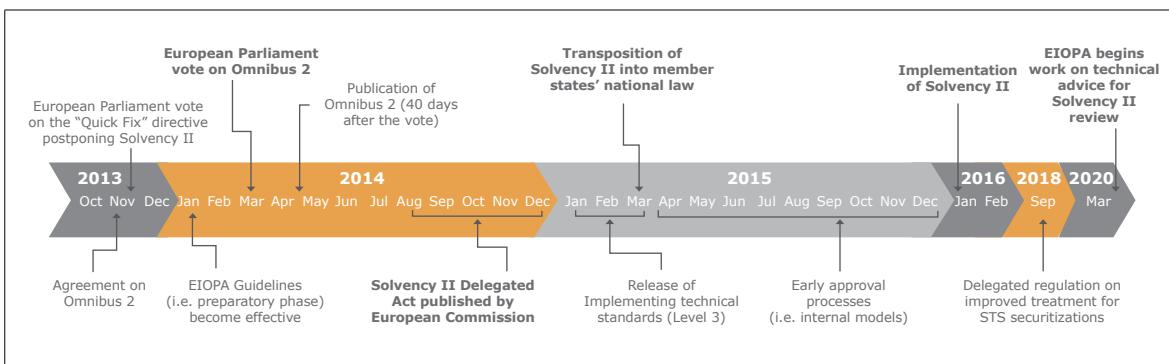
## 2.2.2 INSURANCE REGULATION – SOLVENCY II

By Florian Eichert, Crédit Agricole, Member of the ECBC Steering Committee

The Solvency II Directive ([2009/138/EC](#)) is what the Capital Requirements Directive (CRD) IV is for the banking world – a regulatory regime that introduces risk based capital charges. It is also an attempt to harmonise the EU insurance landscape. It was adopted by the European Parliament and the Council of the European Union in November 2009. Implementing the directive was, however, far from done at this point with multiple delays occurring over the following years. During this period, a number of amendments to the original Solvency II Directive had actually become necessary to be in line with EU's implementing measures according to the Lisbon Treaty of 2009 and EU's new supervisory structure by introducing the European Insurance and Occupational Pensions Authority (EIOPA). These amendments were implemented through the so-called Omnibus II Directive. The agreement on Omnibus II was passed by the European Parliament on 11 March 2014 after a text had been agreed between the European Commission (EC), Parliament and Council on 13 November 2013.

The EC finally adopted the Delegated Regulation (EU 2015/35) containing implementing rules for Solvency in October 2014. The first set of implementing rules was then adopted in March 2015, with the second set of guidelines following suit in the third quarter of 2015. Solvency II finally then came into effect on 1 January 2016.

FIGURE 1: TIMELINE OF IMPLEMENTATION



Source: European Commission, Crédit Agricole CIB

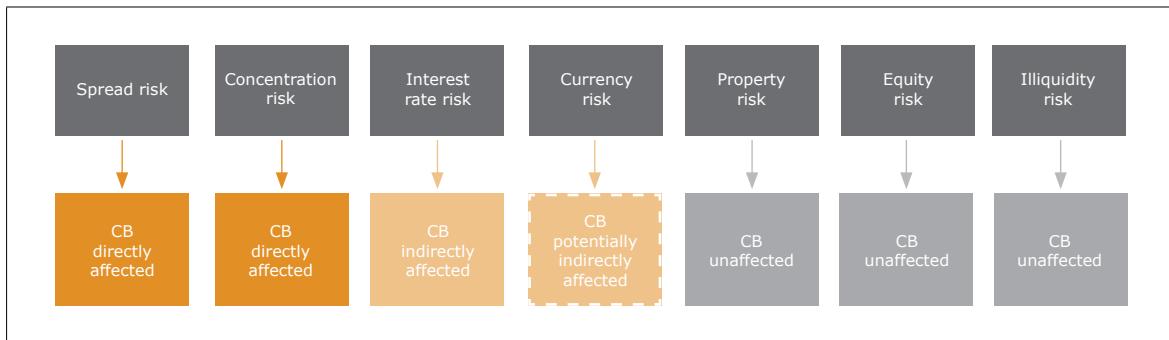
The journey doesn't end there however. There have already been adjustments to the treatment of securitisation (lower spread risk capital charges) for example. In addition to this, the EC's Capital Markets Union (CMU) action plan from September 2015 mentioned that while insurance investors are natural long-term investors, they have been retreating from investing in long-term projects. As a result, the EC made amendments to the treatment of infrastructure and European long term investment funds. The CMU plan also foresaw yet another change to the treatment of securitisation exposure. With the framework for simple, transparent and standardised securitisation products (STS) in place since December 2017, Solvency II capital charges were lowered for STS products in September 2018 via a delegated regulation. Currently, the European Commission (EC) is reviewing the Solvency II regime and EIOPA has been working on a technical advice to the EC on this since March 2020. It published an opinion on the 2020 review of Solvency II in December last year stating that "From a prudential perspective, EIOPA is of the view that overall the Solvency II framework is working well and no fundamental changes are needed at this point in time, but a number of amendments are required to ensure that the regulatory framework continues as a well-functioning risk-based regime." EIOPA proposals include adjustments to the extrapolation of long-dated interest rates, adjustments to the equity risk capital charge as well as to factor in the existence of negative rates in the interest rates sub module. For the spread risk sub module, which impacts covered bonds directly, EIOPA does not propose any material changes.

## OVERVIEW OF SOLVENCY II – WHERE ARE COVERED BONDS IMPACTED?

Solvency II is a highly complex framework which addresses a vast number of different sources of risks that all interact with each other to come up with a final solvency capital requirement (SCR). Risks range from market risk to underwriting risk, longevity risk or default risk on loan exposures.

Covered bonds are mainly affected by the market risk section and specifically mentioned in the spread risk and concentration risk modules.

> FIGURE 2: MARKET RISK MODULES IN SOLVENCY II AND THEIR RELEVANCE FOR COVERED BONDS



Source: EIOPA, Crédit Agricole CIB

### SPREAD RISK MODULE

The spread risk module is the biggest single investment specific driver of capital charges under Solvency II. Interest rate risk is an even bigger driver of capital charges overall but other than spread risk is driven by the overall asset and liability structure of an insurance company and not by the individual asset purchased.

EIOPA describes spread risks as the “results from the sensitivity of the value of assets, liabilities and financial instruments to changes in the level or in the volatility of credit spreads over the risk-free interest rate term structure.” In other words, we are talking about the spread vulnerability in volatile scenarios. Spread risk applies to virtually all fixed income instruments apart from sovereign debt rated AA- and better.

Since insurance companies are longer term investors than banks, capital charges for investments are also significantly higher than they are for banks. In addition to this, they are not only driven by credit risk, as is the case for the standardised approach in banking regulation, but are also determined by a combination of rating and duration. The weaker the rating and the longer the investment, the higher the capital charge. The spread risk module capital charges are expressed as a charge per year of duration.

Covered bonds do receive preferential treatment under the spread risk module if they comply with the following criteria:

- > They have a credit quality step 0 or 1 which means a minimum rating of AA-;
- > They meet the requirements defined in Article 52(4) of the UCITS Directive 2009/65/EC.

For covered bonds that fulfil the UCITS Directive and are rated AAA, a spread risk factor of 0.7% applies per year of duration up to 5Y while AA- to AA+ rated ones have a factor of 0.9%. Covered bonds that do not meet these requirements are treated as senior unsecured exposure. Capital charges are 0.2% higher per duration year.

Determining the duration of a bond is straightforward when it comes to hard bullet covered bonds. Soft bullet structures (as well as to a much lesser extent) conditional pass through (CPT) covered bonds have however become more common often raising the question which maturity is the relevant one. As far as we are aware,

Solvency II looks at the extended maturity when determining the spread risk capital charge in the standardised approach. In the IRB approaches investors can work with an expected final maturity date. For soft bullet covered bonds the extra 12 months are thus not major, especially under an IRB approach. For CPT deals that can in theory extend by up to 38 years the story looks slightly different though. Even in an IRB approach, spread risk capital charges under Solvency II will be higher for a comparable hard bullet covered bond with the same original maturity and one reason why some CPT issuers recently switched to issuing soft bullet covered bonds was to be able to extend further out the curve.

When looking at the numbers it is also important to mention that the percentages do not relate to 8% of the invested notional as is the case in the banking world but to the actual invested notional. A 10% risk-weight on covered bonds essentially means a 0.8% capital charge for a bank. Talking about 0.7% capital charge in Solvency II for an equally rated 1Y covered bond also means 0.7% capital relative to the invested notional. The longer the duration of the bond is, the higher the Solvency charge becomes in both absolute terms as well as relative to bank capital charges. While the AAA covered bond with a 1Y maturity is treated slightly better under Solvency II, (0.7% vs. 0.8%), the relationship reverses from year 2 onwards. For an AAA rated 10Y covered bond, insurance companies have to hold 6% of the invested notional in capital, which is 7.5 times as much as banks.

> FIGURE 3: FORMULAS FOR THE SOLVENCY II CAPITAL CHARGE CALCULATIONS FOR COVERED BONDS AND OTHER ASSET CLASSES

Credit quality	Up to 5 years	5 to 10 years	10 to 15 years	15 to 20 years	20 years +
<b>AAA covered</b>	0.7% * D	3.5% + 0.5% * (D -5)	6% + 0.5% * (D -10)	8.5% + 0.5% * (D -15)	11% + 0.5% * (D -20)
<b>AA + to AA- covered</b>	0.9% * D	4.5% + 0.5% * (D -5)	7% + 0.5% * (D -10)	9.5% + 0.5% * (D -15)	12% + 0.5% * (D -20)
<b>A+ to A- covered</b>	1.4% * D	7% + 0.7% * (D -5)	10.5% + 0.5% * (D -10)	13% + 0.5% * (D -15)	15.5% + 0.5% * (D -20)
<b>BBB+ to BBB- covered</b>	2.5% * D	12.5% + 1.5% * (D -5)	20% + 1% * (D -10)	25% + 1% * (D -15)	30% + 0.5% * (D -20)
<b>BB+ to BB- covered</b>	4.5% * D	22.5% + 2.5% * (D -5)	35% + 1.8% * (D -10)	44% + 0.5% * (D -15)	46.6% + 0.5% * (D -20)
<b>Unrated covered</b>	3.0% * D	15% + 1.7% * (D -5)	23.5% + 1.2% * (D -10)	29.5% + 1.2% * (D -15)	35.5% + 0.5% * (D -20)
<b>EU member states' direct central government exposure / guaranteed by EU member central governments (irrespective of rating)</b>	0.0%	0.0%	0.0%	0.0%	0.0%
<b>AAA to AA- sovereign third country</b>	0.0%	0.0%	0.0%	0.0%	0.0%
<b>A+ to A- sovereign</b>	1.1% * D	5.5% + 0.6% * (D -5)	8.4% + 0.5% * (D -10)	10.9% + 0.5% * (D -15)	13.4% + 0.5% * (D -20)
<b>BBB+ to BBB- sovereign</b>	1.4% * D	7% + 0.7% * (D -5)	10.5% + 0.5% * (D -10)	13% + 0.5% * (D -15)	15.5% + 0.5% * (D -20)
<b>BB+ to BB- sovereign</b>	2.5% * D	12.5% + 1.5% * (D -5)	20% + 1% * (D -10)	25% + 1% * (D -15)	30% + 0.5% * (D -20)
<b>AAA corporate</b>	0.9% * D	4.5% + 0.5% * (D -5)	7.0% + 0.5% * (D -10)	9.7% + 0.5% * (D -15)	12.0% + 0.5% * (D -20)
<b>AA+ to AA- corporate</b>	1.1% * D	5.5% + 0.6% * (D -5)	8.4% + 0.5% * (D -10)	10.9% + 0.5% * (D -15)	13.4% + 0.5% * (D -20)
<b>A+ to A- corporate</b>	1.4% * D	7% + 0.7% * (D -5)	10.5% + 0.5% * (D -10)	13% + 0.5% * (D -15)	15.5% + 0.5% * (D -20)
<b>BBB+ to BBB- corporate</b>	2.5% * D	12.5% + 1.5% * (D -5)	20% + 1% * (D -10)	25% + 1% * (D -15)	30% + 0.5% * (D -20)
<b>BB+ to BB- corporate</b>	4.5% * D	22.5% + 2.5% * (D -5)	35% + 1.8% * (D -10)	44% + 0.5% * (D -15)	46.6% + 0.5% * (D -20)
<b>AAA STS securization</b>	1.0% * D	5.0% + 0.6% * (D -5)	8.0% + 0.6% * (D -10)	11% + 0.6% * (D -15)	14.0% + 0.6% * (D -20)
<b>AA + to AA- STS securization</b>	1.2% * D	6.0% + 0.7% * (D -5)	9.5% + 0.5% * (D -10)	12.0% + 0.5% * (D -15)	14.5% + 0.5% * (D -20)
<b>A+ to A- STS securization</b>	1.6% * D	8% + 0.8% * (D -5)	12.0% + 0.6% * (D -10)	15% + 0.6% * (D -15)	18.0% + 0.6% * (D -20)
<b>BBB+ to BBB- STS securization</b>	2.8% * D	14.0% + 1.7% * (D -5)	22.5% + 1.1% * (D -10)	28% + 1.1% * (D -15)	33.5% + 0.6% * (D -20)
<b>BB+ to BB- STS securization</b>	5.6% * D	28.0% + 3.1% * (D -5)	43.5% + 2.2% * (D -10)	54.5% + 0.6% * (D -15)	57.5% + 0.6% * (D -20)

Source: EIOPA, Crédit Agricole CIB

> FIGURE 4: SOLVENCY II CAPITAL CHARGES FOR COVERED BONDS AND OTHER ASSET CLASSES

Credit quality	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>AAA covered</b>	0.7%	1.4%	2.1%	2.8%	3.5%	4.0%	4.5%	5.0%	5.5%	6.0%	6.5%	7.0%	7.5%	8.0%	8.5%
<b>AA + to AA- covered</b>	0.9%	1.8%	2.7%	3.6%	4.5%	5.0%	5.5%	6.0%	6.5%	7.0%	7.5%	8.0%	8.5%	9.0%	9.5%
<b>A+ to A- covered</b>	1.4%	2.8%	4.2%	5.6%	7.0%	7.7%	8.4%	9.1%	9.8%	10.5%	11.0%	11.5%	12.0%	12.5%	13.0%
<b>BBB+ to BBB- covered</b>	2.5%	5.0%	7.5%	10.0%	12.5%	14.0%	15.5%	17.0%	18.5%	20.0%	21.0%	22.0%	23.0%	24.0%	25.0%
<b>BB+ to BB- covered</b>	4.5%	9.0%	13.5%	18.0%	22.5%	25.0%	27.5%	30.0%	32.5%	35.0%	36.8%	38.6%	40.4%	42.2%	44.0%
<b>Unrated covered</b>	3.0%	6.0%	9.0%	12.0%	15.0%	16.7%	18.4%	20.1%	21.8%	23.5%	24.7%	25.9%	27.1%	28.3%	29.5%
<b>AAA to AA- EU sovereign</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>A+ to A- EU sovereign</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>BBB+ to BBB- EU sovereign</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>BB+ to BB- EU sovereign</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>AAA to AA- sovereign</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>A+ to A- sovereign</b>	1.1%	2.2%	3.3%	4.4%	5.5%	6.1%	6.7%	7.3%	7.9%	8.5%	8.9%	9.4%	9.9%	10.4%	10.9%
<b>BBB+ to BBB- sovereign</b>	1.4%	2.8%	4.2%	5.6%	7.0%	7.7%	8.4%	9.1%	9.8%	10.5%	11.0%	11.5%	12.0%	12.5%	13.0%
<b>BB+ to BB- sovereign</b>	2.5%	5.0%	7.5%	10.0%	12.5%	14.0%	15.5%	17.0%	18.5%	20.0%	20.5%	22.0%	23.0%	24.0%	25.0%
<b>AAA corporate</b>	0.9%	1.8%	2.7%	3.6%	4.5%	5.0%	5.5%	6.0%	6.5%	7.0%	7.5%	8.0%	8.5%	9.0%	9.5%
<b>AA+ to AA- corporate</b>	1.1%	2.2%	3.3%	4.4%	5.5%	6.1%	6.7%	7.3%	7.9%	8.4%	8.9%	9.4%	9.9%	10.4%	10.9%
<b>A+ to A- corporate</b>	1.4%	2.8%	4.2%	5.6%	7.0%	7.7%	8.4%	9.1%	9.8%	10.5%	11.0%	11.5%	12.0%	12.5%	13.0%
<b>BBB+ to BBB- corporate</b>	2.5%	5.0%	7.5%	10.0%	12.5%	14.0%	15.5%	17.0%	18.5%	20.0%	21.0%	22.0%	23.0%	24.0%	25.0%
<b>BB+ to BB- corporate</b>	4.5%	9.0%	13.5%	18.0%	22.5%	25.0%	27.5%	30.0%	32.5%	35.0%	36.8%	38.6%	40.4%	42.2%	44.0%
<b>AAA STS securization</b>	1.0%	2.0%	3.0%	4.0%	5.0%	5.6%	6.2%	6.8%	7.4%	8.0%	8.6%	9.2%	9.8%	10.4%	11.0%
<b>AA + to AA- STS securization</b>	1.2%	2.4%	3.6%	4.8%	6.0%	6.7%	7.4%	8.1%	8.8%	9.5%	10.0%	10.5%	11.0%	11.5%	12.0%
<b>A+ to A- STS securization</b>	1.6%	3.2%	4.8%	6.4%	8.0%	8.8%	9.6%	10.4%	11.2%	12.0%	12.6%	13.2%	13.8%	14.4%	15.0%
<b>BBB+ to BBB- STS securization</b>	2.8%	5.6%	8.4%	11.2%	14.0%	15.7%	17.4%	19.1%	20.8%	22.5%	23.6%	24.7%	25.8%	26.9%	28.0%
<b>BB+ to BB- STS securization</b>	5.6%	11.2%	16.8%	22.4%	28.0%	31.1%	34.2%	37.3%	40.4%	43.5%	45.7%	47.9%	50.1%	52.3%	54.5%

Source: EIOPA, Crédit Agricole CIB

The capital charge differences between AAA and AA rated covered bonds are noticeable but not huge (1% difference for 10Y). The moment covered bonds drop into single A space and thus lose their preferential treatment, differences start to become very pronounced though (4.5% difference for 10Y) and with BBB (14.0% difference for 10Y) and BB covered bonds (29% difference for 10Y) they become massive.

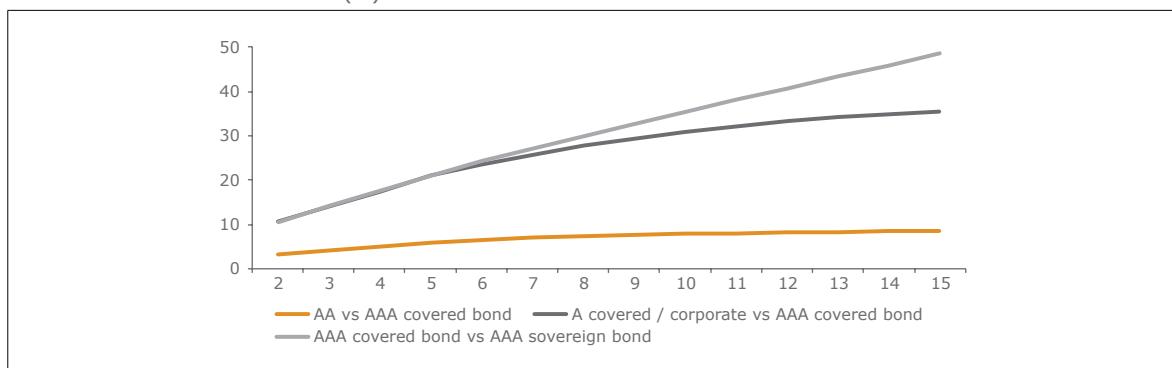
When looking across asset classes, it becomes apparent that Solvency II favours sovereign debt over corporate and covered bonds. Nonetheless, differences between corporates and equally rated covered bonds are not massive (1.2% difference for 10Y AAA).

There have been improvements in how especially lower rated type 1 securitisation deals are treated. While keeping the 2.1% spread risk charge for AAA rated ABS, the figure was set at a flat 3% per year of duration for those ABS rated AA to BBB. The latter had still had a spread risk charge of 8.5% per year of duration before the adjustment. Despite this even the highest quality securitisation have around three times the capital requirement of AAA covered bonds in 5Y (10.5% vs. 3.5%) and three and a half times in 10Y (21% vs. 6%). For lower rated ABS, the difference to equally rated covered bonds in for example 10Y is 23% (30% vs. 7%).

Trying to translate the different capital requirements into spread numbers that one product has to yield in excess of another is not a straightforward exercise. After all, spread risk is merely one factor and there are many others driving the final SCR. It also depends on the return on equity an insurance investor needs to generate. Nonetheless, we have tried to estimate the additional yield required to cover the extra capital from this risk module.

- > We have calculated the average capital charge for a buy and hold investor over the whole life of the investment;
- > We have then assumed a ROEs of 10% to calculate the extra return needed to fulfil this return requirement.

> FIGURES 5: SPREAD IN BP NEEDED TO COMPENSATE FOR ADDITIONAL CAPITAL BETWEEN DIFFERENTLY RATED COVERED BONDS, CORPORATES AND SOVEREIGN BONDS (BP)



Source: EIOPA, Crédit Agricole CIB

## CONCENTRATION RISK MODULE

The concentration risk is defined by the EIOPA as “the risk regarding the accumulation of exposures with the same counterparty” which means that large exposures on a single issuer should be limited. Other concentration types dealing with geographical area, industry sector or the like are not considered though.

Similar to the spread risk module, covered bonds receive a preferential treatment here in the sense that the concentration threshold is much higher at 15% than it would be for equally rated corporate debt for which exposure to a single counterparty is limited to 3%. In addition to this covered bonds are considered as a distinct single name exposure, regardless of other exposures to the same counterparty. In other words, buying covered bonds does not impact the ability or limit the quantity of unsecured exposure towards the issuer an insurance company can buy.

> FIGURE 6: CONCENTRATION RISK THRESHOLDS BY BOND TYPE AND RATING

Type of bond	Rating	Concentration threshold
Corporate bonds, sub + hybrid debt, ABS, CDO	AAA – AA	3.0%
	A	3.0%
	BBB	1.5%
	BB or lower	1.5%
Covered Bonds	AAA – AA	15.0%
Exposure to EEA state, multilateral development banks, international organisations, ECB	–	none

Source: EIOPA, Crédit Agricole CIB

## **BOTTOM LINE**

Solvency II is probably the regulatory regime in which ratings still play the biggest role and in which sovereign debt is given the biggest advantage over private-sector debt. It is true that in bank regulation EU member states do still have a 0% RW; but since Solvency II is calibrated for long-term investors and covers credit risk as well as market volatility risk, the absolute capital charges are a multiple of those for banks and relative differences are magnified.

Apart from the comparison with sovereign debt, highly rated UCITS-compliant covered bonds do fare relatively well overall. They get preferential treatment in both the spread risk and concentration risk modules as long as they are rated at least AA-. Non-UCITS-compliant covered bonds are treated as senior unsecured exposure but as long as they are highly rated, capital charge differences to UCITS-compliant covered bonds are not major. Capital charges for covered bonds do, however, start to go up the moment ratings drop to below AA-. After all, even UCITS-compliant covered bonds are then treated as senior unsecured exposure. While the step to single-A ratings is still manageable, dropping to BBB and below means that capital charges become very onerous.

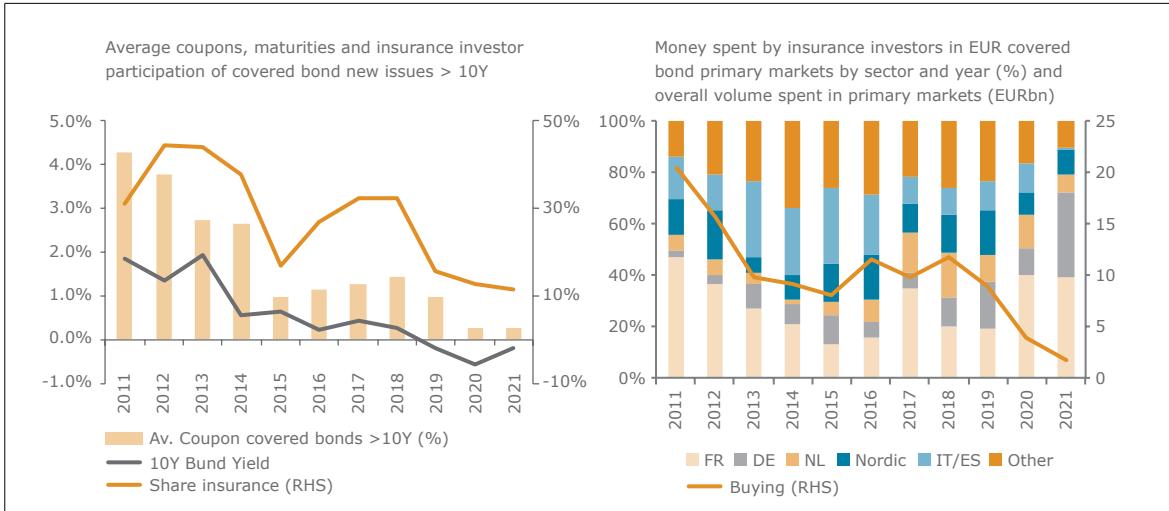
In addition to the spread risk capital treatment, overall capital charges under Solvency II are also determined by the size of the asset-liability mismatch. Long-dated covered bonds are an asset class that is able to close the gap to insurance companies' long-dated liabilities while giving the added security of the underlying framework, product support and collateral.

While there are a number of areas that are still being looked at within the Solvency II framework, the treatment of covered bonds is and has been very stable. However, the Covered Bond Directive (CBD) which was passed by the European Parliament in April 2019 and will come into effect in July 2022 will replace the reference to UCITS 52 (4) in many European regulatory documents including the Solvency II delegated act. If the reference is merely changed from UCITS to the CBD, it will not lead to a different treatment for covered bonds for insurance companies.

For insurance companies, the far bigger problem has been the very low absolute yield levels as well as spreads in EUR markets. Before the CBPP 3 started in 2014, insurance companies' share in covered bond new issues with maturities of longer than 10Y was as high as 45% (2013). Lower yields as well as QE buying halved this share in the years that followed. New issues above 10Y had an average maturity of just above 16 years in 2021 and 2020. Despite this, average coupons have dropped to 0.2% in 2021. As a consequence, the average insurance sector participation at the long-end has dropped to just above 10% with their share in all EUR benchmark covered bond issuance (across the curve) hovering around 5% in 2020 and 2021.

Covered bonds can still make sense for insurance buyers. After all, the problem of low coupons exists across asset classes and for insurance companies without strict minimum yield targets, covered bonds do offer sizeable pickup above sovereign debt while being fairly tight vs credit products. Covered bonds also do add diversification benefits. Nonetheless the focus of many insurance companies has been on equities, infrastructure, real estate and direct lending to cope with the low yields.

> FIGURE 7: INSURANCE PARTICIPATION IN EUR BENCHMARK COVERED BOND NEW ISSUES



Source: Bloomberg, Covered Bond Report, Crédit Agricole CIB

### **2.2.3 MREL AND TLAC AND PROTECTED COVERED BONDS**

By Alexandra Schadow, Landesbank Baden-Württemberg

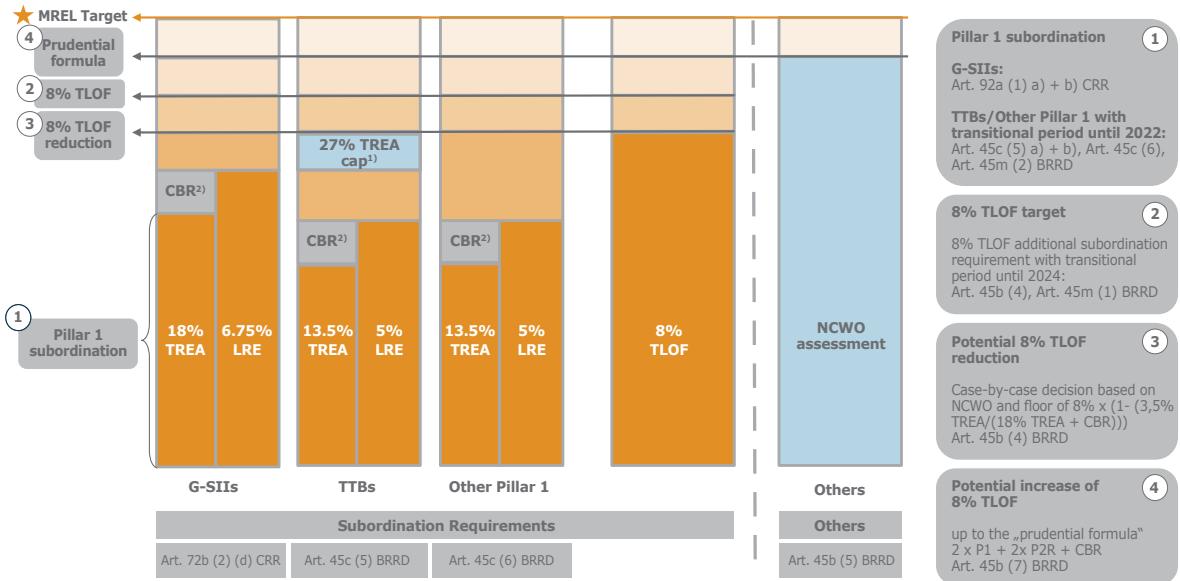
#### Banking package takes effect

If a financial institution finds itself in difficulty and the supervisory authority determines that it is "failing or likely to fail", the bank may be put into resolution if certain conditions are met. Four tools are available under resolution: sale, bridge institutions, asset separation, and bail-in. Under a bail-in, the resolution authority is given powers to write down liabilities or convert them into equity in order to absorb losses and carry out recapitalization measures. This approach presupposes that all institutions have sufficient "bail-in-able" capital. To this end, Article 45 of the first BRRD (Bank Recovery and Resolution Directive; Directive 2014/59/EU) defined a separate minimum requirement for own funds and eligible liabilities (MREL). The same idea underlies the total loss absorbing capacity (TLAC) requirement, which in 2015, through FSB (Financial Stability Board), applied only to global systemically important institutions (G-SII). In its reform package of 23 November 2016, the EU Commission presented proposals for numerous amendments to CRD (Capital Requirements Directive; Directive 2013/36/EU), CRR (Capital Requirements Regulation; Regulation 575/2013), BRRD, and SRMR (Single Resolution Mechanism Regulation; Regulation 806/2014), also called the "banking package". A key issue in this connection was the integration of TLAC requirements into the European legislative framework and their interaction with MREL. A central demand in this context was the introduction of a new asset class known as "senior non-preferred" and its position in the insolvency hierarchy. By means of an urgent procedure, Article 108 BRRD II was adopted on 12 December 2017 to create this new asset class throughout Europe and define the insolvency hierarchy. The directive (Directive 2017/2399/EU) is restricted to just two types of subordination – contractual and structural. The directive had to be transposed into national law by 29 December 2018.

After the whole banking package was adopted on 20 May 2019, publication in the European Official Journal followed on 7 June 2019. The amendments of BRRD, CRD, CRR, and SRMR came into force on 27 June 2019. While CRR II was directly applicable, SRMR II should only be applied from 28 December 2020. The BRRD II and CRD V directives had to be transposed into national law also by 28 December 2020. A significant idea regarding the combination of TLAC and MREL was the different treatment of various institutions. For this there are the categories G-SIIs, top-tier banks (TTBs) with total assets of more than EUR 100 billion, other Pillar 1 banks with a potentially systemic risk, and all other institutions. A harmonized minimum level applies to G-SIIs as in the case of TLAC. This is to become a Pillar 1 requirement and is found in the amended CRR. From January 2019 onwards, G-SIIs have to maintain TLAC corresponding to 16% of total risk exposure amount (TREA) and 6% of the leverage ratio exposure measure (LRE) as a minimum. These ratios will rise to 18% and 6.75% respectively beginning in 2022. However, EU rules with minimum subordination requirements go beyond this. Beginning in 2022, the maximum of the following different ratios must be fulfilled by G-SIIs: the higher of 18% TREA + combined buffer requirements (CBR); 6.75% of LRE; or 8% total liabilities and own funds (TLOF), with the possibility for supervisory authorities to permit a lower level, but greater than 8%  $TLOF \times (1 - (3.5\% TREA / (18\% TREA + CBR)))$ . Moreover, institution-specific add-ons are possible. These are, however, included in BRRD and SRMR as Pillar 2 requirements. For top-tier banks, the Pillar 1 requirement will be the higher of 13.5% TREA + CBR; 5.0% of LRE; or 8% TLOF with the possibility of a lower level but limited to  $8\% TLOF \times (1 - (3.5\% TREA / (18\% TREA + CBR)))$ . Furthermore, there will be a cap at 27% TREA. By contrast, other institutions are not subject to an exact ratio for MREL. This is only a Pillar 2 requirement, which is determined on a case-by-case basis for each bank and which is set out in detail in BRRD and SRMR. While the methods used to calculate the two requirements were harmonized – namely, the two points of reference total risk exposure amount and leverage ratio exposure measure – they still differ considerably in terms of subordination. In contrast to TLAC, liabilities still do not generally have to be subordinated to count towards MREL. A general subordination requirement will be explicitly introduced for G-SIIs. Especially for other banks, the authority may demand this on a case-by-case basis. However, it is worth mentioning at this point that all

banks including G-SIIs can use up to 3.5% senior preferred for the fulfilment of MREL, with the approval of the resolution authority. However, this rule should be used only rarely in order not to run the risk of violating the "no-creditor-worse-off" principle. The complexity of the regulations for the various institutions has increased dramatically in the course of the legislative process. In addition, the resolution authorities are granted a high degree of further flexibility to impose additional requirements.

> FIGURE 1: MREL OVERVIEW FOR G-SIIS, TTBs, OTHER PILLAR 1 BANKS AND OTHER INSTITUTIONS (BANKING PACKAGE)

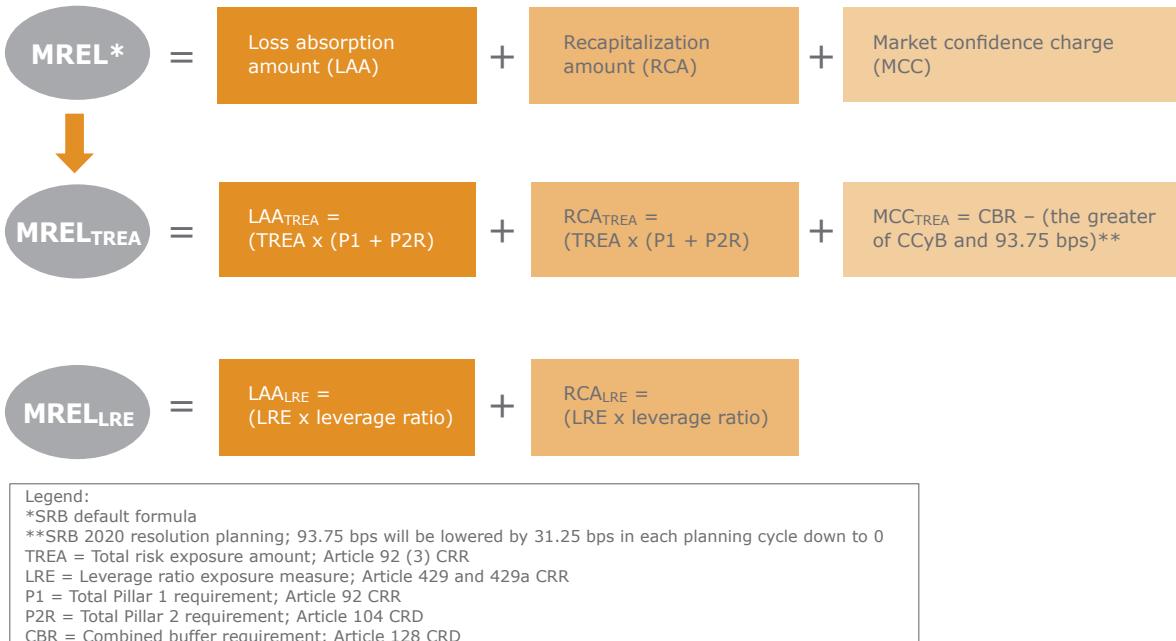


Sources: banking package, SRB, LBBW Research

It is the task of SRB (Single Resolution Board), which is based on BRRD, SRMR, and the Delegated Act 2016/1450 of 23 May 2016, to set MREL requirements for each institution. The SRB policy under the banking package was published on 20 May 2020. Now the publication of the 2021 MREL policy is expected. The two components, namely loss absorption and recapitalization, are still the main factors in the measurement of the MREL requirements. Both MREL requirements loss absorption amount (LAA) and recapitalization amount (RCA) must be fulfilled in the measured variables of LRE and TREA. Within RCA expressed in TREA there may also be a component to maintain market confidence referred to as the "market confidence charge" (MCC). The main components are the Pillar 1 capital requirements (P1) and the total Pillar 2 requirement (P2R), which are based on the individual SREP process of a single institution. While LAA must be met by each bank, RCA can be set at zero. However, this applies only to banks that are subject to liquidation under regular insolvency proceedings. All components are added up and result in the overall requirement. As of March 2021, most institutions have received their MREL targets for 2022 and 2024. The binding intermediate target must be achieved by January 1, 2022. This will be followed by a second intermediate target (informative) on January 1, 2023. The final MREL target must be achieved by January 1, 2024.

Financial institutions play a key role in the Corona pandemic. To support the institutions, the SRB postponed less urgent information and data requests. In addition, the SRB is prepared to compromise on the existing transitional periods for the establishment of MREL. Potential relief measures will be decided individually on the basis of the June 2020 data.

> FIGURE 2: SIMPLIFIED APPROACH FOR MREL REQUIREMENTS ON THE BASIS OF SRB POLICY 2020



Sources: banking package, SRB, LBBW Research

### Covered bonds in light of TLAC and MREL

Covered bonds are still explicitly excluded from bail-in by the rules of Article 44 (2) b) BRRD. This includes covered bonds as defined in Art. 3 (1) of Directive (EU) 2019/2162 or, with regard to a bond that was issued before 8 July 2022, covered bonds that are UCITS-compliant (Directive 2009/65/EC Article 52 (4)). There is just one restriction that allows covered bonds to be bailed in: Namely, if the liabilities from the covered bond exceed the corresponding collateral in the cover pool and the resolution authority believes a bail-in for the “uncovered” part is appropriate. This would, however, correspond to a cover shortfall, which is not allowed by law. The covered bond exception in Article 44 (2) b) BRRD is unaffected by the amendments to BRRD. Covered bonds will continue to enjoy special protection even after the adoption of the new BRRD and the efforts of the harmonized covered bond directive and regulation.

Regarding TLAC and MREL, the EU banking package includes a new category of “eligible liabilities” in Chapter 5a of CRR. Under Article 72a (2) (e) CRR of this chapter, covered bonds are classified as being not eligible. This means that covered bonds, being exempted from bail-in, are not eligible for MREL. However, EU legislation (Article 3 Delegated Regulation 2016/1450) requires that the resolution authority must identify all liabilities that are excluded from bail-in. MREL must also be met with regard to all exclusions. The main objective is to build up a correspondingly sufficient MREL buffer so that bail-in exceptions do not have to be written down or converted.

In general, a standardized approach applies to the measurement of MREL. Nevertheless, the resolution authority may adjust the standardized approach to take account of the institution’s business model, funding profile, and overall risk profile. This decision is based on the results of the SREP process. An upward or downward adjustment may be made. It must, however, reasonably reflect the institution’s resolvability. With regard to business models, MREL already provides for mortgage credit institutions to be treated differently. However, there is one

exception in BRRD for mortgage credit institutions financed by covered bonds. If they are not allowed to receive deposits, the resolution authority may exclude them from the MREL requirement. This, in turn, is only possible in a realizable winding-up under a national insolvency procedure or other types of measures in accordance with BRRD resolution tools and in line with the resolution objectives. This exception was also confirmed in the applied version of Article 45a (1) BRRD.

Overall, covered bonds retain their privileged status as a funding instrument even in light of the banking package for CRD, CRR, BRRD, and SRMR. Covered bonds will remain part of the liability side of banks. The costs of refinancing covered bonds are still very attractive for issuers and, in our opinion, create a counterweight to the relatively expensive senior non-preferred bonds. In "normal" times, but not in "pandemic" times. The very attractive conditions of TLTRO III in particular caused a sharp increase in retained covered bonds that can be submitted as collateral to the ECB. This volume is missing on the public issue side. At the same time, the necessity to meet the MREL targets leads to continued issuance activity on the senior side, not least due to favourable spreads. At the end of Q3 2020 the average MREL target rose to 28.6% TREA (BRRD I) mostly driven by the growth of total liabilities and own funds (TLOF) which in turn was triggered primarily by the ECB refinancing operations. The overall MREL shortfall amounts to a total of EUR 133.9 bn. In the end, it remains to be said that the higher the MREL cushion of a bank becomes, the better protected the covered bond is.

## 2.3 THE REPO TREATMENT OF COVERED BONDS BY CENTRAL BANKS

By Frank Will, HSBC & Chairman of the ECBC EU Legislation Working Group

### I. CENTRAL BANK REPOS: THE SAFETY NET FOR THE BANKING SYSTEM

As part of their monetary policy, central banks across the globe provide liquidity to the banking sector. This is often done in form of repo transactions which require the eligible counterparties to provide collateral in order to receive liquidity from the central banks. The central banks typically have strict eligibility criteria for these collateral assets and demand different haircuts for certain assets, depending on the credit quality of the assets and their maturity.

The role of covered bonds in monetary operations varies by jurisdiction, not least since the nature of those operations is quite heterogeneous across jurisdictions. Broadly speaking, covered bonds receive a more favourable treatment amongst those countries in which they play a more pivotal role in the funding of the domestic banking sector. This applied primarily in terms of eligibility of covered bonds as collateral for repo operations, but also in terms of the haircuts. At many of the major central banks (at least some types of) covered bonds are eligible as collateral in the discount window for emergency lending. During the COVID-19 pandemic many central banks broadened their eligibility criteria, set up asset purchase programmes or term funding facilities to support their domestic banking sector. However, many of these measures have already ended or will be withdrawn over the coming six to twelve months.

> FIGURE 1: COMPARING THE ELIGIBILITY OF COVERED BONDS FOR MONETARY POLICY OPERATIONS

Central Bank	Operation	Covered Bonds eligible?	Eligible Covered Bonds	Currency	Minimum Rating	Rating Treatment	Minimum Size	Own-name Covered bonds?
ECB	Repo Operations (Main and Long term refinancing operations)	Yes	Covered bonds compliant with UCITS Article 52(4) or similar safeguards	EUR, USD, GBP, JPY <sup>1</sup>	Up to BBB-	Best Rating	EUR 1 bn for Jumbo Covered Bonds, otherwise none	Yes
Fed	SOMA Operations	No	None	USD	n/a	n/a	n/a	n/a
	Discount Window	Yes	German Pfandbriefe	AUD, CAD, CHF, DNK, EUR, GBP, JPY, SEK	AAA	Lowest Rating	n/a	No
BoE	Operating Standing Facilities, Short term OMOs	No	n/a	GBP, EUR, USD, AUD, CAD, CHF, SEK	n/a	n/a	n/a	n/a
	Level B Collateral (ILTR, DWF, CTRF and FLS)	Yes	UK, French, German regulated covered bonds		Broadly equivalent to AAA	Rating references are indicative. Bank of England forms its own independent view	GBP 1 bn or EUR 1 bn (depending on issuance currency)	No
	Level C Collateral (ILTR, DWF, CTRF and FLS)	Yes	UK, US <sup>2</sup> & EEA (based on the location of the underlying assets)		Broadly equivalent to A-/A3		None	Yes

1 Under the ECB's Temporary Framework, foreign currency-denominated debt instruments from EEA based issuers constitute eligible collateral for Eurosystem credit operations since 2012. In addition to the haircuts applicable to similar EUR-denominated securities, a further mark-down will be applied (16% for USD and GBP, 26% for JPY).

2 Only in case of SME loans, commercial real estate loans and certain Export Credit Agency guarantee loans.

Central Bank	Operation	Covered Bonds eligible?	Eligible Covered Bonds	Currency	Minimum Rating	Rating Treatment	Minimum Size	Own-name Covered bonds?
SNB	Repo operations, Standing Facilities	Yes From 2015 on, Covered Bonds must be eligible under the Swiss LCR framework	Any covered fulfilling the eligible security and rating criteria, but not issued by a Swiss bank	CHF	Security and issuer's country: AA-/Aa3	Second-highest Rating	CHF 100 m equivalent (issuance amount)	No
			Any covered fulfilling the eligible security and rating criteria, but not issued by a Swiss bank	EUR, USD, GBP, DKK, SEK, NOK	Security: AA-/Aa3 with various exceptions Issuer's country: AA-/Aa3		EUR 1 bn USD 1 bn GBP 750 m DKK 7.5 bn SEK 10 bn NOK 10 bn	
Norges Bank	Repo Operations	Yes	Any covered fulfilling the eligible security criteria	NOK, SEK, DKK, EUR, USD, GBP, JPY, AUD, NZD, CHF, CAD	Domestic currency: None but BBB- for favourable liquidity category (II not III)	Second-highest-Rating	None	Yes
					Foreign Bonds: A/A2			
Reserve Bank of Australia (RBA)	Repo Operations	Yes	Any covered bond fulfilling the eligible security criteria	AUD	AAA or BBB+ for domestic covered bonds >1Y	Lowest rating (of at least two rating agencies)	None	No
Reserve Bank of New Zealand (RBNZ)	Repo and/or Swap of NZ Government Bonds	No	None	n/a	n/a	n/a	n/a	n/a
	Overnight Repo Operations, Bond Lending Facilities	Yes	Any covered bond fulfilling the eligible criteria on the cover pool composition	NZD	AAA from at least two rating agencies. If more than two ratings, then at least two agencies must rate the issue AAA, and no rating is below AA+	None	None	No
Bank of Canada	Standing Liquidity Facility	Yes	Canadian covered bonds	CAD	At least two ratings, second highest must be at least A (low) by DBRS, A3 by Moody's, or A- by S&P or Fitch.	n/a	n/a	No
Danmark Nationalbank	Credit facilities	Yes	Danish covered bonds	DKK / EUR	n/a	EUR 1 bn or equivalent in DKK (higher haircut for smaller issue size)	n/a	n/a

Source: HSBC, Central Banks

## II. EURO AREA: ELIGIBILITY CRITERIA FOR COLLATERAL IN EUROSYSTEM OPERATIONS

The ECB has been a key source of liquidity for banks in the Eurosystem during the credit crunch, the European debt crisis and the COVID-19 pandemic through its repo operations. Within the ECB's liquidity operations, covered bonds play an increasingly important role. While in certain periods during the sovereign and banking crisis the benchmark covered bond market was shut for many issuers out of Europe's periphery, the ECB continued to provide liquidity to those banks which were able to post their own covered bonds as collateral. Many covered bond programmes have therefore been set up not just as an additional funding channel for the banks, but also in order to allow those banks to use the repo facilities at the ECB as means to access liquidity in a closed wholesale market. Since the onset of the COVID-19 pandemic, the TLTRO-III programme allowed Eurozone banks to lower their funding costs and we have seen a jump in retained covered bond issuance.

## **ECB repo operations**

Article 18.1 of the Statute of the European System of Central Banks and of the European Central Bank states that the ECB and the national central banks may conduct credit operations with credit institutions and other market participants, as long as lending is "based on adequate collateral"<sup>3</sup>. According to the ECB, adequacy means firstly, that collateral must protect against losses in credit operations, and secondly, that there must be sufficient collateral potentially available to ensure that the Eurosystem can carry out its tasks.

Consequently, underlying assets have to fulfil certain criteria in order to be eligible for Eurosystem monetary policy operations. The Eurosystem has developed a single framework for eligible assets common to all Eurosystem credit operations (the "single list"). There is no collateral differentiation between monetary policy instruments or intraday credit, and a single auction rate is applicable to different types of collateral in tender operations. The scope of eligible collateral is broad and includes secured assets like covered bonds and ABS, the latter of which can be backed by receivables such as residential and commercial loans (secured and unsecured), auto loans, lease receivables etc., provided they satisfy certain eligibility criteria (set out below), as well as unsecured claims against governments, credit institutions or corporates.

The Eurosystem additionally applies risk control measures in the valuation of underlying assets. The value of the underlying asset is calculated as the market value of the asset less a certain percentage ("valuation haircut"). The haircut-adjusted market value of the underlying assets used in its liquidity-providing reverse transactions must be maintained over time. This implies that if the value, measured on a regular basis, of the underlying assets falls below a certain level, the national central bank will require the counterparty to supply additional assets or cash (margin call). Similarly, if the value of the underlying assets, following their revaluation, exceeds a certain level, the counterparty may retrieve the excess assets or cash. The current eligibility of assets in the ECB framework and recent changes to this are set out below:

> FIGURE 2: ELIGIBILITY OF ASSETS IN THE ECB FRAMEWORK

Criteria	Standard Collateral Rules
Type of Asset	<ul style="list-style-type: none"><li>&gt; Debt instrument, including covered bonds with (a) a fixed, unconditional principal amount (except for ABS) or (b) an unconditional principal amount that is linked to only one euro area inflation index at a single point in time, containing no other complex structures</li><li>&gt; Coupon should be zero coupon, fixed-rate coupon, multi-step coupon or floating-rate coupon linked to an interest rate reference or yield of one euro area government bond with a maturity of one year or less or inflation-indexed</li></ul>
Definition of Covered Bonds	<ul style="list-style-type: none"><li>&gt; The ECB does not provide an official definition of what they classify as covered bonds in the context of eligible collateral</li><li>&gt; In general, 'Covered Bank Bonds' for ECB collateral purposes means bonds issued in accordance with Article 52 (4) of the UCITS Directive, (i.e. subject to covered bond specific legislation) or similar safeguards</li><li>&gt; Covered bonds with external, non-intra group MBS as well as both internal and external public sector ABS in the cover pool are no longer eligible as collateral for repo transactions</li><li>&gt; Covered bonds which are neither legislative covered bonds nor multi cédules, shall become ineligible from 1 January 2021</li></ul>
Cash Flow Backing ABS	<ul style="list-style-type: none"><li>&gt; Must be legally acquired in accordance with the laws of a member state in a "true sale"</li><li>&gt; Must not consist of credit-linked notes (i.e. cannot be a synthetic structure), swaps or other derivatives, synthetic securities or contain tranches of other ABS</li></ul>

3 Protocol on the Statute of the European System of Central Banks and of the ECB, Article 18.1.

Criteria	Standard Collateral Rules
<b>Tranche and Rating</b>	<ul style="list-style-type: none"> <li>&gt; Tranche (or sub-tranche) must not be subordinated to other tranches of the same issue</li> <li>&gt; The minimum rating threshold is BBB- (S&amp;P) / Baa3 (Moody's) / BBB- (Fitch) / BBBL (DBRS) based on a "best rating approach", so only one rating at this level is required for eligibility</li> <li>&gt; Assets will remain eligible in the event of rating downgrades as long as their rating remains at or above credit quality step 5 (BB (S&amp;P) / Ba2 (Moody's) / BB (Fitch) / BB (DBRS)*</li> <li>&gt; The minimum ratings for ABS are A- (S&amp;P) / A3 (Moody's) / A- (Fitch) / AL (DBRS) on a second-best basis. Certain ABS fulfilling additional requirements could qualify if they have at least two triple-B ratings</li> <li>&gt; ABS will remain eligible in the event of rating downgrades as long as their rating remains at or above credit quality step 4 (BB+ (S&amp;P) / Ba1 (Moody's) / BB+ (Fitch) / BBH (DBRS)*</li> <li>&gt; The use of third-party rating tools will be phased out</li> </ul>
<b>Place of Issue</b>	<ul style="list-style-type: none"> <li>&gt; European Economic Area (EEA)</li> </ul>
<b>Settlement Procedures</b>	<ul style="list-style-type: none"> <li>&gt; Transferable in book-entry form</li> <li>&gt; Held and settled in the euro area</li> </ul>
<b>Acceptable Market</b>	<ul style="list-style-type: none"> <li>&gt; Debt instrument must be admitted to trading on a regulated market or a non-regulated market as specified by the ECB</li> </ul>
<b>Type of Issuer/ Guarantor</b>	<ul style="list-style-type: none"> <li>&gt; Central banks, public sector entities, agencies<sup>4</sup>, credit institutions, financial corporations other than credit institutions, non-financial corporations, multilateral development banks or international organisations</li> <li>&gt; The recognition of an entity as multilateral development bank or international organisation based on an ECB assessment is no longer possible</li> </ul>
<b>Place of Establishment of the Issuer/ Guarantor</b>	<ul style="list-style-type: none"> <li>&gt; Issuer must be established in the EEA or in non-EEA G10 countries and guarantors must be established in the EEA</li> </ul>
<b>Currency of Denomination</b>	<ul style="list-style-type: none"> <li>&gt; EUR, USD, GBP, JPY<sup>5</sup></li> </ul>

Source: HSBC, ECB

\* These changes were made due to the COVID-19 crisis and are temporary. The measures will apply until September 2021 when the first early repayment of the TLTRO-III takes place.

In December 2017 the ECB announced several fundamental changes to its eligibility criteria which entered into force on 16 April 2018.

- > The ECB removed the favourable treatment of floating rate assets. Instead of applying a low uniform haircut to all variable assets, the new valuation haircuts are based on the residual maturity of the assets.
- > The residual maturity for own-use covered bonds will be defined as the maximum legal maturity, taking into account any extension periods of soft bullets and conditional pass-through covered bonds.
- > Unsecured bank bonds issued after 16 April 2018 that are subject to statutory, contractual or structural subordination as well as unsecured bank debt from non-EEA issuers are ineligible as repo collateral. Senior preferred unsecured bank bonds remain eligible as collateral.
- > Commercial mortgage-backed securities (CMBSs) lost their collateral eligibility, owing to their relatively complex nature.

4 "agencies" are issuers or guarantors of debt instruments that the ECB has classified as agencies.

5 Under the ECB's Temporary Framework, foreign currency-denominated debt instruments from EEA based issuers constitute eligible collateral for Eurosystem credit operations since 2012. In addition to the haircuts applicable to similar EUR-denominated securities, a further mark-down will be applied (16% for USD and GBP, 26% for JPY).

In April 2020, the ECB introduced further COVID-19 related measures to facilitate the availability of collateral which remain in place until September 2021 when the first early repayment of the TLTRO-III can takes place. These measures include among others.

- > Acceptance of ACC (additional credit claims) backed by COVID-19 government guarantees as collateral.
- > 'Freezing' of the credit ratings of the collateral assets at the level as of 7 April 2020. Assets will remain eligible in the event of rating downgrades as long as their rating remains at or above credit quality step 5 (CQS 5; BB/Ba2/BB) or CQS 4 (BB+/Ba1/BBH) in the case of ABS.
- > Proportionate reduction of haircuts by 20%.
- > Own-use covered bonds shall be subject to an additional valuation haircut of 6.4% (credit quality steps 1 and 2), and 9.6% (credit quality step 3).
- > Increase in the concentration limit for unsecured bank bonds from 2.5% to 10%.
- > Acceptance of Greek sovereign bonds as collateral.

> FIGURE 3: ECB HAIRCUTS BY LIQUIDITY CATEGORY AND RESIDUAL MATURITY\*\*

Credit Quality	Residual maturity (years)	Category I (Government Bonds)			Category II (Local & Regional Govt, Supras & Agencies, Jumbo Covered Bonds*)			Category III (Traditional and other non-Jumbo Covered Bonds*, Corporates Bonds)			Category IV (Unsecured Bank Bonds*)			Category V (Asset-backed securities*)
		fixed	zero	floating	fixed	zero	floating	fixed	zero	floating	fixed	zero	floating	
Step 1 and 2 (A- or higher)	0-1	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	6.0	6.0	6.0	3.2
	1-3	0.8	1.6	0.4	1.2	2.0	0.8	1.6	2.4	0.8	8.0	8.4	6.0	3.6
	3-5	1.2	2.0	0.4	2.0	2.8	0.8	2.4	3.6	0.8	10.4	10.8	6.0	4.0
	5-7	1.6	2.4	0.8	2.8	3.6	1.2	3.6	4.8	1.6	11.6	12.4	8.0	7.2
	7-10	2.4	3.2	1.2	3.6	5.2	2.0	4.8	6.4	2.4	13.2	14.4	10.4	10.4
	>10	4.0	5.6	1.6	6.4	8.4	2.8	7.2	10.4	3.6	16.0	20.4	11.6	16.0
Step 3 (BBB+ to BBB-)	0-1	4.8	4.8	4.8	5.6	5.6	5.6	6.4	6.4	6.4	10.4	10.4	10.4	4.8
	1-3	5.6	6.4	4.8	7.6	10.8	5.6	9.6	12.0	6.4	18.0	20.0	10.4	7.2
	3-5	7.2	8.0	4.8	10.8	14.8	5.6	13.2	17.6	6.4	22.4	26.0	10.4	10.4
	5-7	8.0	9.2	5.6	11.2	16.0	7.6	14.8	20.8	9.6	24.4	28.0	18.0	12.0
	7-10	9.2	10.4	7.2	12.8	19.6	10.8	15.2	22.4	13.2	24.8	29.6	22.4	14.4
	>10	10.4	12.8	8.0	15.2	23.6	11.2	15.6	24.0	14.8	25.2	30.4	24.4	24.0

Source: ECB, HSBC (\*Assets that are theoretically valued will be subject to an additional 4% haircut; additional valuation markdowns for own-use covered bonds of 6.4% for Credit Quality Step 1&2 and of 9.6% for Credit Quality Step 3-5).

\*\* These haircuts include the temporary 20% reduction in light of the COVID-19 crisis.

Following the UK's withdrawal from the EU, the following assets are no longer eligible:

- > unsecured debt instruments issued by credit institutions or investment firms, or by their closely-linked entities, that are established in the UK
- > ABS whose issuer or originator is established in the UK
- > ABS in which the acquisition of the cash-flow generating assets by the SPV is governed by UK law
- > ABS in which clawback rules are governed by UK law (Article 76 of the General framework)
- > assets denominated in GBP, JPY or USD whose issuer is established in the UK
- > assets with guarantees governed by UK law or where the guarantor is established in the UK, unless the guarantee is not needed to establish the credit quality requirements for the specific debt instrument
- > credit claims for which the facility agent is a credit institution located in the UK

Based on the UK's status as a non-EEA G10 country, euro-denominated debt instruments issued by entities established in the UK, but which do not fall into the categories listed above, will continue to be accepted as eligible collateral.

Debt instruments listed on the London Stock Exchange must also be admitted to trading on at least one acceptable market as defined by Article 68(1) of the General framework in order to remain eligible for collateral purposes, provided all other eligibility criteria are met.

#### **Classification of covered bonds within the Eurosystem operations**

The ECB considers covered bonds to be a liquid asset class. Hence, covered bonds benefit from preferential liquidity class classification and favourable haircut valuations for repo transactions with the ECB when compared with other assets such as ABS. Moreover, unlike senior bank debt, the ECB will accept self-issued "covered bank bonds" as collateral (see below for more information on this). Thus, like certain forms of ABS, covered bonds allow issuers to make assets held on their balance sheets eligible for the ECB's liquidity operations. This is very much in line with previous ECB statements which note that "covered bonds possess a number of attractive features from the perspective of financial stability".

The Eurosystem does currently not provide an official definition of what classifies as "covered bond". In general, the Eurosystem accepts both UCITS and non-UCITS compliant covered bonds as collateral as long as they otherwise fulfil the general eligibility criteria. Generally, debt instruments are classified as "covered bank bonds" if they are issued in accordance with the criteria set out in Article 52(4) of the UCITS Directive. Those bonds are grouped either into liquidity category II in case of Jumbo covered bonds, i.e. bonds with a minimum issue size of EUR 1 bn and at least three market makers, or into liquidity category III in case of traditional non-Jumbo covered bonds. Over the last few years, the market has moved away from the "Jumbo" definition and we would not be surprised if the ECB were to also update its internal criteria at one stage.

#### **Covered bonds and "close link" exemption**

"Covered bank bonds" also benefit from certain preferential treatments compared with other bank debt when it comes to self-issued bonds. The ECB states that "irrespective of the fact that a marketable or non-marketable asset fulfils all eligibility criteria, a counterparty may not submit as collateral any asset issued or guaranteed by itself or by any other entity with which it has close links"<sup>6</sup>. This means that banks cannot, for example, use their own senior unsecured debt directly as collateral with the ECB.

The main exemptions from the "close links" rule remain "EEA-legislative covered bonds". Self-issued covered bonds can be used by counterparties as collateral, i.e. an issuer can use its own covered bonds and there are no close link prohibitions. Since 1 February 2020, such covered bonds must have an issue rating.

#### **Conclusion on covered bond treatment**

The ECB, to a greater extent than any of its central bank peers, has both outlined and demonstrated its support for the covered bond market in the past. This was most obviously the case with its three covered bond purchase programmes since 2009. Perhaps even more important is the ECB's positive stance towards covered bonds, which the institution maintains for several reasons.

Firstly, the ECB has focussed on the importance of covered bonds as a means for banks to access long-term funding: "Issuing covered bonds enhances a bank's ability to match the duration of its liabilities to that of its

<sup>6</sup> "Close links" means the counterparty is linked to an issuer/debtor/guarantor of eligible assets by one of the following forms: (i) the counterparty owns directly, or indirectly, through one or more other undertakings, 20% or more of the capital of the issuer/debtor/guarantor; or (ii) the issuer/debtor/guarantor owns directly, or indirectly through one or more other undertakings, 20% or more of the capital of the counterparty; or (iii) a third party owns more than 20% of the capital of the counterparty and more than 20% of the capital of the issuer/debtor/guarantor, either directly or indirectly, through one or more undertakings [ECB, "The Implementation on Monetary Policy in the Euro Area", February 2011]

mortgage loan portfolio, enabling a better management of its exposure to interest rate risk. Other secured funding products, such as repos, are unlikely to have the same asset-liability matching attributes offered by covered bonds. These factors are all the more pertinent today given the increasing role of short-term refinancing in banks' balance sheets. In certain instances, rolling over short-term funding might be less expensive or better in terms of reputation, but this could pose challenges to the management of assets and liabilities at some point. In addition, to improving banks' structural asset-liability mismatch, covered bonds offer a wider geographical diversification, as issuers tap into a larger European market.<sup>7</sup> Moreover, a further key advantage comes from the absence of effective risk transfer and the desirable incentives this creates for the originating banks. As former ECB president Trichet noted: "Importantly, covered bonds do not involve the transfer of the credit risk implied by underlying assets from the issuer to the investor. The credit risk stays with the originator, preserving the incentives for prudent credit risk evaluation and monitoring."<sup>8</sup> Such positive attitude is reflected in the ECB's current favourable treatment of covered bonds within its repo operations as they are allocated in a very favourable liquidity category (Jumbo covered bonds rank alongside the debt of the ESM, EIB, EU and the explicitly guaranteed German agency KfW).

### **III. THE UK: ELIGIBILITY CRITERIA FOR BANK OF ENGLAND OPERATIONS**

#### **Latest changes to the framework**

In October 2014, the Bank of England introduced the concept of collateral pooling to simplify the management of the collateral it received by the banks for its monetary operations. In the past, liquidity was provided against collateral by way of repurchase transactions. The new approach allows participants to pool their collateral across certain facilities (e.g. Short-Term Open Market Operations (OMOs), Operational Standing Facilities (OSFs), Indexed Long Term Repo operations (ILTRs), Discount Window Facility (DWF) and Intra-Day Liquidity (IDL) for RTGS). The Bank of England expects the pooling model to simplify the process for managing the collateral, enhance operational efficiency and reduce operational risks.

Before the introduction of the Single Collateral Pool (SCP) model, the Bank of England's SMF and intraday liquidity operations were repo transactions whereby individual securities were held as collateral against the central bank's exposures to that participant. The SCP model aggregates a participant's collateral position thereby significantly reducing the volume and frequency of transactions needed to provide collateral to the Bank of England.

The Bank of England has established three active collateral pools: the Main Collateral Pool, the DWF pool, and the Term Funding Scheme within the APF pool. In addition, there is a 'Pre-positioned pool for loan collateral' for loans meeting the collateral eligibility requirements but not yet being used to cover any transactions.

#### **Covered bonds under the Sterling monetary framework**

The Bank of England operates a rather stricter regime than the ECB in terms of eligible collateral within the Sterling Monetary Framework. The BoE defines three collateral sets, which are eligible to varying degrees for its monetary operations: (1) level A collateral set, (2) level B collateral set, (3) level C collateral securities as well as level C loan collateral.

Within the Sterling monetary framework operations, covered bonds are only included within the Level B and Level C collateral securities sets, both of which are eligible for the following facilities: (1) Indexed Long-Term Repo OMOs, (1) Discount Window Facility, (3) Contingent Term Repo Facility as well as (4) the Funding for Lending Scheme.

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<sup>7</sup> European Central Bank, "Covered Bonds in the EU Financial System", December 2008.

<sup>8</sup> Keynote address by Jean-Claude Trichet, Munich, 13 July 2009.

The eligibility criteria for covered bond inclusion can be found below:

> FIGURE 4: BANK OF ENGLAND'S COVERED BOND ELIGIBILITY CRITERIA

	<b>Level B</b>	<b>Level C Collateral Securities</b>
<b>Eligible currencies</b>	GBP, EUR, USD, AUD, CAD, CHF, and SEK	
<b>Geography</b>	UK, French and German regulated Covered Bonds	-
<b>Rating Requirements</b>	Broadly equivalent to AAA	Broadly equivalent to A3/A- or higher
<b>Minimum Size</b>	At least £1bn or €1bn (depending on issue currency)	n/a
<b>Own Name Covered Bonds</b>	No	Yes
<b>Underlying assets</b>	UK/EEA prime residential mortgages, social housing loans or public sector debt	UK/US/EEA public sector debt, social housing loans, SME loans, commercial real estate loans, UK/EEA residential mortgages

Source: Bank of England, HSBC

Rating references are only used to indicate the broad standards of credit quality that are expected by the Bank of England and are no longer prerequisites for eligibility. The BoE rather forms its own independent view of the risk in the collateral taken and only accepts collateral that it can value and where the risk can be effectively managed.

For the Level B collateral set, only a subset of the covered bond universe is eligible. The criteria are based on a combination of both credit quality (hence underlined by the AAA rating-equivalent requirement) and liquidity.

For example, covered bonds from Nordic issuers, one of the core covered bond markets with an acknowledged safe haven status, are not included in the Level B Collateral Set. In the past, Spanish covered bonds that fulfilled the rating requirement were included but have since been removed from the list of eligible assets. Meanwhile, under the current guidelines, even for some of the UK banks, their Euro covered bonds would mainly be eligible, given that many Sterling covered bonds fall below the minimum issue size threshold of GBP 1bn.

Covered bonds do not qualify for the Bank of England's Level A collateral set which is restricted to Gilts (including gilt strips), Sterling Treasury bills, Bank of England securities, HM Government non-sterling marketable debt and Sterling, euro, US dollar and Canadian dollar-denominated securities (including associated strips) issued by the governments and central banks of Canada, France, Germany, the Netherlands and the US.

In 2011, bonds issued in domestic currency or in sterling, euro or US dollars from Australia, Austria, Belgium, Denmark, Finland, Italy, Japan, Luxembourg, New Zealand, Norway, Portugal, Slovenia, Spain, Sweden, and Switzerland, as well as supranational debt, were moved from the "narrow" (now called Level A) to the "wider" (now called Level B) collateral set and are therefore not eligible for short term repo operations. Thus, even some AAA countries such as Norway or Denmark are no longer eligible for short-term repos under the Level A collateral definition. These amendments were the result of a previous internal review by the BoE, reflecting a stronger focus on liquidity and credit risk.

> FIGURE 5: HAIRCUTS FOR VARIOUS COVERED BOND TYPES

	<b>float.</b>	<b>&lt;1 yr</b>	<b>1-3 yrs</b>	<b>3-5 yrs</b>	<b>5-10 yrs</b>	<b>10-20 yrs</b>	<b>20-30 yrs</b>	<b>&gt;30 yrs</b>
Covered bonds (backed by UK or EEA public sector debt, social housing loans or residential mortgages)	12	12	14	15	17	19	22	24
UK, EEA or US covered bonds (backed by SME loans or commercial mortgages)	25	25	27	28	30	32	35	37
UK, EEA or US covered bonds (backed by ECA guaranteed loans)	3	3	5	6	8	10	13	15

Source: HSBC (as of 6 April 20201 an additional haircut of 5% will applied for own-use covered bonds)

As mentioned above, the Bank of England conducts a number of different monetary policy and liquidity insurance operations. Figure 6 shows the eligibility of different collateral sets for the various operations and facilities:

> FIGURE 6: ELIGIBILITY OF DIFFERENT COLLATERAL SETS FOR THE VARIOUS OPERATIONS AND FACILITIES

<b>Sterling Monetary Framework operations &amp; lending facilities</b>	<b>Level A</b>	<b>Level B</b>	<b>Level C</b>
Intraday Liquidity	Yes	No	No
Operational Standing Facilities	Yes	No	No
<b>Indexed Long-term Repo Operations</b>	Yes	Yes	Yes
<b>Discount-Window Facility</b>	Yes	Yes	Yes
<b>Contingent Term Repo Facility</b>	Yes	Yes	Yes
<b>Liquidity Facility in Euros (LiFE)</b>	Yes	Yes	Yes
<b>US Dollar Repo</b>	Yes	Yes	Yes
<b>Funding For Lending Scheme</b>	Yes	Yes	Yes
<b>Term Funding Scheme</b>	Yes	Yes	Yes
<b>TFSME Lending Facility</b>	Yes	Yes	Yes

Source: Bank of England, HSBC

### **Operational standing facilities**

The Operational Standing Lending Facility provides a ceiling for the overnight interest rates through its overnight lending facility (against the Level A collateral set), which is usually set at 25bp above the Bank of England rate. The Operational Standing Deposit Facility is an unsecured overnight deposit with the central bank, which is currently set 10 bps below the Bank of England rate. This is designed to limit volatility in overnight interest rates by providing an arbitrage mechanism to prevent money market rates moving far from the bank rate and allowing participating banks to manage unexpected frictional payment shocks.

### **Indexed long-term repo operations**

Indexed long-term repo operations are provided by the Bank of England to provide indexed liquidity insurance without distorting banks' incentives for prudent liquidity management and to minimise the risk being taken onto the BoE's balance sheet. These operations are indexed to the bank rate, allowing counterparties to use the facility without having to take a view on the future path of the Bank rate (and also reducing the BoE's exposure to market risk). In these operations banks can borrow against three collateral sets: Levels A, B and C. Levels B and C include covered bonds meeting the aforementioned criteria. Level C securities must be delivered to the Bank in advance of the operation, and all loan collateral must be pre-positioned.

The BoE typically offers funds in long-term repo operations once a month. Since 2014 the term of all ILTR lending has been extended to six months.

The BoE does not provide a simple schedule of long-term operations, as is the case for the ECB. Instead it operates a unique auction design. Participants submit bids for a nominal amount of liquidity and a spread in basis points to the bank rate. Banks can submit separate bids against Level A collateral or against Level B and C collateral (where covered bonds are eligible). Multiple bids can be placed against any of the three collateral sets<sup>9</sup>.

The auction then prices using a “uniform price” format, meaning all successful bidders (those bidding for liquidity at a higher price than the clearing spread) ultimately pay only the clearing spread.<sup>10</sup> The BoE specifies the clearing spreads for all the three collateral sets. Bids are ranked and accepted in descending order of the bid spread until the BoE’s supply preferences have been met. Thus, when pledging covered bonds in the BoE’s long-term indexed repo operations, the ultimate cost to a bank will depend on the spread set for the Levels B and collateral sets in the auction. Crucially, the auction is flexible as both the proportion of the total amount allocated to each collateral set as well as the total quantity of funds are based on the pattern of bids received. This determines the amount of liquidity, against which covered bonds can potentially be pledged. So, in this system the amount of liquidity on offer against the Level B and C collateral sets depends not only on demand for long-term repos on these assets but also on those in the Level A collateral set.

### **Discount window facility**

The discount window is a bilateral facility used for emergency lending to an institution; providing liquidity insurance. It allows participants to borrow Gilts (or in certain cases even cash) against a wider range of potentially less liquid eligible collateral. It acts as a “liquidity upgrade of collateral”, hence, the wider range of eligible collateral. Fees are paid when the Gilts are returned to the BoE in return for the original assets. Drawings have a 30-day maturity and can be rolled for longer temporary liquidity needs.

Collateral, which can be pledged, encompasses all the collateral sets Level A, B and C. The fees charged for the discount window depend upon the type of collateral used and the proportion of eligible liabilities, which the lending would represent.

For lending provided in return for Gilts<sup>11</sup> the fees (in basis points) for the different categories of collateral are set out below:

> FIGURE 7: OVERVIEW OF THE FEES FOR THE DIFFERENT CATEGORIES OF COLLATERAL

Fees (basis points)			
Collateral % of Eligible Liabilities	Level A	Level B	Level C
0-5%	25	50	75
5-15%	Marginal cost rises linearly with quantity borrowed		
>15%	Prices agreed bilaterally with the Bank of England		

Source: Bank of England, HSBC

### **Contingent term repo facility (CTRF)**

The CTRF is a contingency liquidity facility that the BoE can activate in response to actual or prospective exceptional market-wide stress to undertake operations against the full range of eligible collateral (Levels A, B, C). This includes own-name covered bonds. Collateral is expected to be pre-positioned prior to an operation. The

9 There is no restriction on the number of bids, the aggregate value of bids or the total value of bids received from a single participant.

10 The rationale here is to avoid participants basing their bids on assumptions about others’ behaviour.

11 In the event that cash is lent instead, then the fee is the indexed bank rate in addition to the fees shown in the Figure 7; though such fees can vary at the bank’s discretion.

BoE activated the CTRF on 26 March 2020 in the light of the COVID-19 pandemic. The size of the operation is unlimited at a fixed rate of Bank Rate plus 15 bps. The final operation took place on 26 June 2020.

> FIGURE 8: SUMMARY OF THE BoE'S MONETARY OPERATIONS

	<b>Operational Standing Facilities</b>	<b>Indexed Long-term Repo</b>	<b>Discount Window Facility (DWF)</b>
<b>What is the primary purpose of the operation?</b>	Monetary policy implementation; Bilateral liquidity insurance to deal with frictional payment shocks	Liquidity insurance	Bilateral liquidity insurance
<b>What is being borrowed?</b>	Deposit facility: n/a Lending facility: sterling cash	Sterling cash	Gilts (in certain circumstances also cash)
<b>Eligible Collateral</b>	Deposit facility: n/a Lending facility: Level A	Level A, B and C	Level A, B and C
<b>Fee</b>	Deposit facility: 25 bp above bank rate Lending facility: 10 bp below bank rate	Auction determined uniform spread indexed to Bank Rate	Fee dependant on size of drawing and collateral delivered
<b>Maturity</b>	Overnight	6 months	30 days
<b>Frequency</b>	Available daily	Typically monthly	Available daily
<b>Minimum bid/offer amount</b>	n/a	£5mln	n/a
<b>Minimum bid/offer increment</b>	n/a	£1mln	n/a
<b>Settlement date of the operation</b>	T+0	T+2	T+0

Source: Bank of England, HSBC (as of April 2021)

#### **Additional disclosure requirements for residential mortgage covered bonds**

The Bank of England requires additional disclosure and transparency for RMBS and covered bonds backed by residential mortgages. The BoE requirements include anonymised loan level information for securities from these two asset classes. This must be provided for investors, potential investors and "certain other market professionals acting on their behalf." The information must be provided on at least a quarterly basis and within one month of an interest payment date. Since December 2012, any covered bonds backed by mortgages which do not fulfil the criteria became ineligible for use in any of the Bank of England's monetary policy operations.

Loan-level reporting also includes "the requirement for credit bureau score data" to be made available. This needs to be provided within a three-month period of the transaction's origination and must be updated on a quarterly basis to enhance comparability between the various providers.

#### **IV. THE US: ELIGIBILITY CRITERIA FOR FEDERAL RESERVE OPERATIONS**

The monetary policy operations of the Federal Reserve System work rather differently to those at the ECB or the Bank of England. The Federal Reserve Bank of New York implements monetary policy on behalf of the Federal Reserve System, as mandated by the Federal Open Market Committee (FOMC). Monetary policy is implemented through sales and purchases on the System Open Market Account (SOMA) at the Federal Reserve Bank of New York. This account is used both to maintain the overnight target rate for the federal funds rate (i.e. the US policy rate), as well as to undertake large scale asset purchase programmes decided upon by the FOMC. In particular, the three rounds of asset purchases (quantitative easing), the first consisting of Treasury securities, GSE debt and GSE-guaranteed MBS, the second solely of Treasuries and the third of agency MBSs, as well as the reinvestment of the coupons and principal payments received from the first round of QE, have all gone through this account. Currently, covered bonds are not eligible for any SOMA operations, which are

restricted to US Treasury Bills, Notes and Bonds (including TIPS), Federal Agency securities<sup>12</sup> and MBS guaranteed by Fannie Mae, Freddie Mac and Ginnie Mae; all of which must be denominated in USD. None of the additional operations put in place during the first stage of the financial crisis are currently still in place, meaning the only significant other monetary operation is the discount window.

### **Covered bonds and the discount window**

Following the redemption of the last US covered bond in November 2016, only **AAA-rated German Jumbo Pfandbriefe** are eligible for the discount window. For the AAA requirement, the lowest rating of S&P, Moody's and Fitch is relevant.

"In general, the Federal Reserve seeks to value securities collateral at a fair market value estimate. Margins are applied to the Federal Reserve's fair market value estimates and are designed to account for the volatility of the value of the pledged security over an estimated liquidation period. Securities are valued using prices supplied by external vendors. Securities for which a price is unavailable from the Federal Reserve's external vendors will receive zero collateral value."<sup>13</sup>

The haircuts applied to the various assets eligible for use in the discount window are outlined below. Notably the foreign currencies eligible for the discount window are AUD, CAD, CHF, DKK, EUR, GBP, JPY and SEK.

The haircuts applied to covered bonds in the discount window operations are not very high and only marginally higher than those for Treasuries. For example, for tenors of 5-10 years, USD-denominated Pfandbriefe are subject to a haircut of only 4%, the same as stripped Treasury notes, supranational paper or GSE bonds. Nonetheless, the eligibility criteria for foreign-issued covered bonds are very strict, including solely German Pfandbriefe. All other covered bonds effectively appear to be treated in the same manner as unsecured bank debt, i.e. they are excluded from the discount window. Even other well-developed legislation-based covered bond types, such as Obligations Foncières or any of the various Nordic covered bonds, have not been included.

> FIGURE 9: OVERVIEW OF THE MARGINS FOR SECURITIES IN THE DISCOUNT WINDOW

Asset Class	Asset Type	Margins for securities (by Maturity in yrs)				
		0-1	>1-3	>3-5	>5-10	>10
US Treasuries	Bills/Notes/Bonds/Floating Rate Notes/Inflation Indexed	1	1.0	2	3	5
	STRIPs		3			8
GSEs	Bills/Notes/Bonds	2	2	3	4	6
	Zero Coupon	3	3	4	5	9
Foreign Government Agencies	AAA-BBB rated USD denominated	2	2	3	4	6
	AAA rated foreign denominated	6	6	6	7	9
Foreign Government, Foreign Government Guaranteed and Brady Bonds	AAA-A rated USD denominated	2	2	3	4	6
	BBB rated USD denominated	3	3	4	5	7
	AAA-BBB foreign denominated	6	6	7	7	9
Supranationals	Bills/Notes/Bonds USD denominated	3	3	3	4	6
	AAA rated foreign denominated	6	6	7	8	10
	Zero Coupon					
Corporate Bonds (Non-Financial)	AAA-A rated USD denominated	2	3	4	6	8
	BBB rated USD denominated	3	4	6	8	10
	AAA rated foreign denominated	8	8	9	10	15

12 Fannie Mae, Freddie Mac and Federal Home Loan Bank.

13 Federal Reserve Collateral Guidelines as 26 March 2018.

Asset Class	Asset Type	Margins for securities (by Maturity in yrs)				
		0-1	>1-3	>3-5	>5-10	>10
<b>German Jumbo Pfandbriefe</b>	<b>AAA rated USD denominated</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
	<b>AAA rated foreign denominated</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>9</b>
Asset Backed Securities	AAA-A rated	2	2	4	8	11
	BBB rated	4	4	5	8	12
	CDOS- AAA rated	13	13	15	23	36
	CLO- AAA rated	9	9	13	27	30
Agency Backed Mortgages	Pass-throughs	2	2	3	4	6
	CMOs					
	CMBs					

Source: Fed (applicable as of 1 July 2021), HSBC

There is also a separate schedule for the percentage margin applied to loans, of which some are also eligible for the discount window facility. A further stipulation from the Fed is that obligations of the pledging depository institution (or of an affiliate) are not eligible collateral, ruling out own-name covered bonds.

## V. SWITZERLAND: ELIGIBILITY CRITERIA FOR SWISS NATIONAL BANK (SNB) OPERATIONS

### SNB monetary policy operations

Under its monetary policy framework, the Swiss National Bank (SNB) sets normally a 100 bps target range for the 3-month Swiss Franc LIBOR rate, with SNB targeting the middle of this range. (Owing to the absence of underlying money market transactions, the Libor will become less relevant and will no longer be supported by the UK's Financial Conduct Authority after 2021. SARON is regarded as an alternative to the Swiss franc LIBOR). Repos are its preferred open market operation used to achieve this target. These are conducted in parts by auctions, which are typically held every day, either in the form of a volume tender (fixed rate tender, which is the norm) or by variable rate tender. The SNB can also conduct bilateral repo operations to affect money market operations during the course of the day. All these repo transactions must be 100% collateralised. The terms are set on a daily basis and the maturity of the operations may vary from one day to several months. Hence, the SNB does not have distinct long-term repo operations in the same manner as the ECB or the BoE. Furthermore, the SNB can issue its own debt certificates (SNB Bills) as a means of absorbing liquidity through its money market operations when targeting the policy rate (or range). Such debt certificates can also be posted back to the SNB in the context of its repo operations (but cannot be used by banks to satisfy their minimum reserve requirements).

Under the SNB's typical volume tender, each counterparty offers for the amount of liquidity it is willing to provide for a given repo rate. If the total volume of offers exceeds the SNB's predetermined allotment volume, the SNB reduces the amounts offered proportionally. Each one of the counterparties receives the interest rate they bid. SNB Bill auctions are, as a rule, conducted in the form of a variable rate tender. Counterparties submit their offers comprising the amount of liquidity they are willing to provide and price at which they would do so. Counterparties can submit multiple bids, including at different interest rates. The SNB obtains liquidity from the participants that have made offers at or below the highest interest rate accepted by the SNB, paying the participants the interest rate stated in their offers.

In addition, the SNB provides standing facilities (a liquidity shortage facility and an intraday facility). For such facilities the SNB does not actively intervene in the market but rather "merely specifies the conditions at which counterparties can obtain liquidity"<sup>14</sup>. Repo transactions within the context of standing facilities must cover at least 110% of the funds obtained. The remaining monetary policy operations used by the SNB are an intraday

14 Guidelines of Swiss National Bank (SNB) on Monetary Policy Instruments.

facility for banks, foreign exchange swaps with various central banks, as well as foreign exchange purchases (a means of intervening into foreign exchange markets affecting CHF). The SNB can also create, purchase or sell derivatives on receivables, securities, precious metals and currency pairs.

#### **Covered bonds and other collateral eligible for SNB repo operations**

For monetary policy operations the SNB has a standard collateral set which does not distinguish between collateral eligible for different operations. This is in line with the ECB but in contrast to the BoE policy. The SNB accepts a slightly wider set of collateral for its operations. In this sense, the SNB operates much more like the ECB than the Fed or BoE, with the latter restricting eligible assets of short-term monetary policy operations to only the highest-quality liquid government securities, with the exclusion of covered bonds.

Following the adoption of the Swiss Liquidity Ordinance which translates the LCR framework into Swiss law, the SNB has also redefined its collateral policy aligning it to the new liquidity provisions from 2015 onwards. The changes should ensure that all collateral eligible for SNB repos also fulfils the criteria for high-quality liquid assets (HQLA).

Only collateral included in the list of eligible collateral for SNB repos may be pledged in the repo transactions. In order to be eligible, the collateral assets must fulfil the following criteria:

- > be issued by central banks, public sector entities, international or supranational institutions and private sector entities
- > securities issued by financial institutions are generally not eligible. However, covered bonds issued by financial institutions are eligible, provided the issuer is not a domestic financial institution or its foreign subsidiary. Moreover, securities issued by Pfandbriefbank schweizerischer Hypothekarinstutute AG and Pfandbriefzentrale der schweizerischen Kantonalbanken AG are also eligible.
- > the securities have to be denominated in CHF, EUR, USD, GBP, DKK, SEK or NOK.
- > the issuer must be domiciled in Switzerland, in the European Economic Area (EEA), or in the UK, if the security is denominated in a foreign currency. Securities issued by international or supranational organisations may be admitted as eligible collateral even if the issuer is domiciled in a third country.
- > have a fixed principal amount with an unconditional redemption,
- > have a fixed rate, floating rate or zero coupon,
- > have a minimum volume of CHF 100 mln for securities denominated in Swiss Francs or CHF 1 bn equivalent for securities denominated in foreign currencies,
- > be traded on a recognised exchange or a representative market in Switzerland, a EEA member state or in the UK with price data published on a regular basis; and
- > fulfil the country and issuer rating requirements (second-highest rating of the three rating agencies S&P, Moody's and Fitch is at least AA-/Aa3. If only one credit rating is available, this shall be used).
- > On 13 June 2019 the SNB announced that covered bonds with extendable maturities (i.e. soft-bullets) are eligible assets up to the original maturity date.

As such, covered bonds are eligible, as long as they are not issued by a domestic Swiss bank (or a subsidiary abroad) with the exception of the Swiss Pfandbrief institutions. The criteria for the various classes of eligible assets are further split between foreign and Swiss Franc denominated criteria:

> FIGURE 10: ELIGIBILITY CRITERIA FOR SWISS FRANC AND FOREIGN CURRENCY SECURITIES

	Currency of Issue	Min. Rating of Creditor's Country of Domicile	Min. Rating of Security	Minimum issue size	Additional Criteria
Swiss Franc Securities	CHF	AA-/Aa3*	AA-/Aa3**	100 CHF m	Securities of foreign issuers must be listed on SIX Swiss Exchange
Foreign Currency Securities	EUR, USD, GBP, DKK, SEK, NOK	AA-/Aa3* (and must be domiciled in Switzerland or an EEA member state)	AA-/Aa3**	1.0 bn EUR; 1.0 bn USD; 750 m GBP; 7.5 bn DKK; 10.0 bn SEK; 10.0 bn NOK	–

\* Securities of supranational organisations may be eligible irrespective of rating of country of domicile.

\*\* Based on the second-highest rating; if only one credit rating is available, this shall be used. For securities issued by public sector entities and the Swiss Pfandbrief institutions which do not have a securities rating, the issuer rating may be used instead. Swiss public authorities, Swiss Pfandbrief institutions, the central issuing office of Swiss municipalities and Swiss issuers with explicit guarantee from Swiss Confederation are excluded from this requirement.

Source: SNB, HSBC

All securities contained in the list of collateral eligible for SNB repos form part of the SNB GC Basket and fulfil the criteria for high-quality liquid assets (HQLA) as defined in the Liquidity Ordinance. Based on their characteristics, the securities in this collective basket are assigned to additional baskets. The L1 Basket contains Swiss franc and foreign currency securities issued by, as a rule, central banks, public sector entities and multilateral development banks. The L2A Basket contains all other securities from the SNB GC Basket. In addition, Swiss franc securities are pooled in an L1 CHF Basket and an L2A CHF Basket. As is the case with all central banks, the SNB can decide on a case-by-case basis which securities are eligible for its repo operations. Its rules explicitly state that it "may reject the inclusion of securities or withdraw securities that were previously included in the list, without providing any justification."

#### **Own-name covered bonds**

The SNB publicly states that it does not accept counterparties' own securities or "those issued by persons or companies which, directly or indirectly, hold at least 20% of the capital or the voting rights in a counterparty or, conversely, in which the counterparty holds such rights". Nonetheless it explicitly states that "this 20% rule does not apply to participations in Swiss Pfandbrief institutions". Although it is not explicitly stated in official documents, SNB officials confirmed to us that own-name covered bonds cannot be included within the boundaries set by the definition of eligible collateral.

## **VI. NORWAY: ELIGIBILITY CRITERIA FOR NORGES BANK OPERATIONS**

#### **Norges Bank monetary policy operations**

The policy rate of Norges Bank is the sight deposit rate: the rate of interest banks receives on their overnight deposits (up to a quota) at Norges Bank. In October 2011, quotas were introduced defining the size of deposits banks could hold with Norges Bank on sight deposit rate terms. Banks' reserves with Norges Bank in excess of the quota were remunerated at a rate equal to the sight deposit rate minus 100bp, giving banks a strong incentive to holding surplus reserves at the low reserve rate. Unlike other central banks, the key policy rate is not a target for overnight interest rates realised in money markets. Instead, the sight deposit rate forms a floor for very short-term money rates, whilst the overnight lending rate charged to banks for overnight loans (for "D-Loans", see below) is the other though less important interest rate, which forms a ceiling for very short-term money rates. This is typically set 100bp above the key policy rate. Norges Bank uses F-deposits (fixed-rate deposits) to remove unwanted liquidity from the system.

In terms of providing liquidity, Norges Bank provides intraday and overnight loans ("D-Loans"), which must be 100% collateralised. The bank also provides longer term liquidity through "F-loans" (fixed-rate loans), repurchase agreements and currency swaps. F-loans are ordinary fixed-rate loans with a given maturity provided against acceptable collateral "in the form of approved securities." The interest payable on such loans is determined by a multi-price ('American') auction. Just as in the case of the SNB, Norges Bank determines the total amount to be allotted in such an operation. Bids for the loans are ranked in decreasing order and allotments are made until the total amount is distributed, with all counterparties paying their respective bid price. Such loans also must be 100% collateralised.

Norges Bank has primarily granted "F-loans" to financial institutions rather than longer-term repo operations, following previously unsuccessful attempts to encourage the use of repo facilities. F-loans are provided for a number of different maturities, much like the longer-term ECB-refinancing operations. Longer maturity F-loans were provided during the credit crunch.

The collateral set eligible for short-term "D-loans" at Norges Bank is identical to that for the longer-term "F-loans" as Norges Bank only uses a single collateral set for all its operations. Its collateral rules group different securities into various liquidity categories, much like the ECB (see below for further details).

#### **Covered bonds and other collateral eligible for Norges Bank repo operations**

In order to be eligible as collateral, securities must be listed on Norges Bank's website and have to fulfil the following eligibility criteria:

##### **Type and Jurisdiction**

- > Bonds, notes and short-term paper issued from Norwegian and foreign issuers
- > Securities issued outside the EEA may be accepted provided that Norges Bank has legal confirmation that there are no problems associated with the realising of the collateral
- > Norwegian bond and money market funds (confined to investing in bonds, notes and short-term paper that are eligible under the current rules) are eligible as collateral provided that they are managed by a management company registered in Norway whose unit holdings are registered with the Norwegian Central Securities Depository (VPS) and that Norges Bank has access to price information from Oslo Børs Informasjon
- > Securities must be registered either in the VPS or at Euroclear Bank or Clearstream Banking.

##### **Credit rating**

- > Securities issued by foreign issuers and bonds, notes and short-term paper issued by Norwegian private entities are subject to credit rating requirements.
- > Covered bonds issued under Norwegian law are exempt from the rating requirement if they are backed by domestic mortgage loans. For securities issued by Norwegian entities a credit rating of the issuer is sufficient.
- > Norges Bank accepts credit ratings from S&P, Fitch and Moody's whereby the second-best credit rating will apply if a security or issuer has more than one rating. The lowest acceptable credit rating for bonds with foreign issuers is A/A2, while the lowest acceptable credit rating for bonds issued by Norwegian issuers is BBB-/Baa3<sup>15</sup>.

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<sup>15</sup> The lowest acceptable credit rating for notes and short-term paper issued by foreign entities is A-1 from S&P or the equivalent rating from Fitch or Moody's, while the lowest acceptable credit rating for notes and short-term paper from Norwegian issuers is A-3 from S&P or the equivalent rating from Fitch or Moody's.

## **Listing**

Securities issued by private entities are subject to listing requirements.

- > Securities issued by private entities must be listed on a stock exchange or other market places approved by Norges Bank.
- > The listing requirement does not apply to notes and short-term paper.

## **Requirements relating to minimum volume outstanding**

Securities issued by private entities are subject to requirements relating to minimum volume outstanding. In light of the COVID-19 crisis, the following temporary measures apply:

- > Securities in NOK must have a minimum outstanding volume of NOK 100 m, whilst securities in a foreign currency must have a minimum volume equivalent to EUR 50 m.
- > For securities other than Norwegian government securities, a borrower may not pledge more than 20% of the issue's (ISIN) volume outstanding (this was temporarily increased to 100% in light of the COVID-19 pandemic)

## **Currency restrictions**

- > Securities shall be denominated in NOK, SEK, DKK, EUR, USD, GBP, JPY, AUD, NZD, CAD or CHF. For securities denominated in a currency other than NOK an additional haircut of 6% is applied.

## **Multilateral development banks, government-guaranteed and regional debt securities**

Norges Bank may, subject to an assessment, exempt securities with irrevocable and unconditional government guarantees from the listing and minimum outstanding volume requirements.

## **ABS and other restrictions**

- > Asset Backed Securities (ABS) must have a AAA credit rating from S&P, Fitch or Moody's at the time of collateralisation and must be assessed by Norges Bank as what are termed "true sale" ABSs and must not be secured on commercial property loans.
- > Only the most senior tranche will be accepted as collateral and the borrower cannot pledge more than 20% of the volume outstanding of any deal.
- > Unsecured securities issued by banks and other financial institutions, or unsecured bonds issued by companies where banks or other financial institutions indirectly or directly own more than a third are not eligible. Securities that are directly or indirectly linked to credit derivatives are not eligible as collateral. Nor will instruments such as convertible bonds, inflation-linked bonds, inverse floating rate bonds, FRN Caps or subordinated loans be eligible.
- > Exemption due to COVID-19 crisis: Securities in NOK guaranteed by local government authorities are exempt from the credit rating requirements.

## **Own-name covered bonds**

A bank may pledge covered bonds and ABS as collateral even if the securities are issued by the bank itself or by an entity that is part of the same corporate group as the bank. Own-name covered bonds are subject to an additional haircut of 5%.

## Haircuts

The haircuts applied to the market value of a security are set out by category below:

> FIGURE 11: NORGES BANK HAIRCUTS BY CATEGORY AND RESIDUAL MATURITY (% OF MARKET VALUE)

Liquidity Category	Liquidity Category I	Liquidity Category II	Liquidity Category III	Liquidity Category IV				
<b>Eligible Collateral</b>	<ul style="list-style-type: none"> <li>&gt; AAA rated Government Bonds</li> <li>&gt; Money market and bond funds confined to investments in the above securities</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Government bonds rated AA+ to A</li> <li>&gt; <i>Covered bonds rated AAA to AA-</i></li> <li>&gt; Norwegian local government paper</li> <li>&gt; Foreign local government paper rated A or better</li> <li>&gt; 0% RW paper</li> <li>&gt; Government-guaranteed paper</li> <li>&gt; AAA rated corporates</li> </ul>	<ul style="list-style-type: none"> <li>&gt; <i>Covered bonds rated A+ to A</i></li> <li>&gt; Corporate bonds rated AA+ to A</li> <li>&gt; Units in eligible money market and bond funds</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Norwegian covered bonds rated A- or lower and unrated</li> <li>&gt; Norwegian corporate bonds rated A- to BBB-</li> </ul>				
Maturity	Fixed	Floating	Fixed	Floating	Fixed	Floating	Fixed	Floating
0-1 year	1.0	1.0	3.0	3.0	4.0	4.0	8.0	8.0
1-3 years	3.0	1.0	5.0	4.0	6.0	5.0	11.0	10.0
3-7 years	5.0	1.0	7.0	5.0	10.0	7.0	17.0	14.0
7+ years	7.0	1.0	10.0	6.0	13.0	9.0	22.0	17.0

Source: HSBC, Norges Bank

Notes: Securities in foreign currencies are subject to a further 6% haircut, own-name covered bonds to a further 5% haircut. If Norges Bank does not have sufficient price information on securities, the value will be determined on the basis of the nominal value, less an additional haircut depending on the bond's rating.

## Access to Norges Bank lending facilities by covered bond mortgage companies

In a statement published in May 2013, Norges Bank argues that "covered bond mortgage companies should not be given general access to the central bank lending facility" since "the granting of liquidity loans is expressly restricted to commercial banks and savings banks." It has to be noted however that "Norges Bank's ability to extend liquidity support to financial institutions in extraordinary cases is not limited by whether the institution has ordinary access to the lending facilities."

## VII. AUSTRALIA: ELIGIBILITY CRITERIA FOR RESERVE BANK OF AUSTRALIA (RBA) OPERATIONS

The Reserve Bank of Australia (RBA) expresses its desired stance on monetary policy through an operating target for the cash rate, the money market rate on overnight interbank funds. The RBA targets this through its short-term open-market operations ("domestic market operations"). The same collateral set is also applicable to the longer-term operations provided.

When the RBA buys securities under repurchase agreement, it does so in two broad classes of securities: government-related securities and private securities. Since the mid-1990s, the RBA has gradually widened the range of highly-rated securities that it is prepared to accept in response to the decline in available government debt and taking into account the changing structure of financial markets.

## **Covered bonds and RBA eligible securities for reverse repos**

In order to be considered as eligible by the RBA, all securities, including covered bonds, must fulfil the following criteria:

- > **Currency:** The security is denominated in Australian dollars and traded in Austraclear. The RBA will not accept securities that trade as Euro-entitlements.
- > **Rating:** The lowest credit rating assigned to a security or its issuer by Moody's, S&P and Fitch will be used to assess eligibility and eventual haircut. For covered bonds only, security ratings are considered as long as at least two ratings are available. Otherwise the issuer ratings will be considered.
- > **Structured bonds:** "Highly structured" securities are not eligible.
- > **Own name bonds:** "Unless otherwise advised" securities issued by the bank itself or related entities are not eligible. A related party is deemed to be an institution that has a significant relationship to the credit quality of the security, including members of the same group and where one entity owns more than 15% of another. The list of eligible securities denotes the related parties for specific securities or programmes. This 'related party exemption' also applies to covered bonds and, as such, "own name covered bonds" are not eligible for RBA repo operations.

The current set of eligible securities and the respective minimum rating requirements are given below:

> FIGURE 12: ELIGIBLE SECURITIES AND MINIMUM RATING REQUIREMENTS

	<b>Minimum Rating</b>
<b>General Collateral</b>	
Australian Government Securities	no minimum rating required
Semi-governments Securities	no minimum rating required
Issues by Supranationals and Foreign Governments	AAA*
Securities with an Australian Government Guarantee	no minimum rating required
Securities with a Foreign Sovereign Government Guarantee	AAA*
<b>Private Securities</b>	
<b>Securities (including Covered Bonds) issued by authorised deposit-taking institutions (ADIs)</b>	
Residual maturity of 1Y or less	Any public rating
Residual maturity > 1Y	BBB-
Asset Backed Securities	A-1 or AAA
Other securities	A-1 or AAA

\* Minimum rating requirement waived for securities issued and/or guaranteed by the New Zealand government

Source: RBA, HSBC, (as of May 2020)

These include covered bonds denominated in AUD which have to be issued in the Kangaroo market (i.e. onshore) to be eligible for Repo transactions with the RBA. The RBA is willing to accept "other AAA assets" which include covered bonds, as well as senior unsecured bank debt as long as it is rated AAA and denominated in AUD. The RBA accepts both legislative and structured covered bonds. As is the case with all central banks, the RBA retains the right to reject any particular security or securities from any issuer and specifically states that it will not accept "highly structured" securities. This does not apply to covered bonds, but to CDOs or similar structures.

Figure 13 below shows the margin ratios used by the RBA to discount the market value of securities purchased under reverse repos. They are applied according to the following formula:

$$\text{purchase price} = \text{market value} / (1 + \text{margin} / 100)$$

> FIGURE 13: MARGIN RATIOS OF SECURITIES PURCHASED UNDER REVERSE REPOS

	Minimum Rating	Margins			
		0-1 years	1-5 years	5-10 years	>10 years
<b>Government-related Securities</b>					
Australian Government Securities	n/a	1	2	2	2
Semi-Government Securities	n/a	1	2	2	2
Securities Issued by Supranationals & Foreign Governments	AAA	2	3	4	4
Securities with an Australian Government Guarantee	n/a	2	3	4	4
Securities with a Foreign Government Guarantee	AAA	2	3	4	4
<b>Private Securities</b>					
ADI-issued Securities including Australian Covered Bonds	AAA	6	7	8	10
	AA-	10	12	14	16
	A-	12	14	16	18
	BBB-	18	22	26	30
	Public credit rating	24	n/a	n/a	n/a
<b>Asset-backed Securities</b>					
> Standard	A-1 or AAA	10-15	10-15	10-15	10-15
> Other	A-1 or AAA	15-20	15-20	15-20	15-20
<b>Other Private Securities</b>	A-1 or AAA	6	7	8	10

Source: RBA, HSBC (as of May 2020)

An additional 3% haircut may apply to asset-backed securities if no market price is available.

## VIII. NEW ZEALAND: ELIGIBILITY CRITERIA FOR RESERVE BANK OF NEW ZEALAND (RBNZ) OPERATIONS

### RBNZ monetary policy operations

Since March 1999 the RBNZ has implemented monetary policy by setting the Official Cash Rate (OCR), which is reviewed eight times a year. The monetary operations of New Zealand are composed of (a) Liquidity Operations, (b) Standing Facilities and (c) Other Domestic Operations. The Open Market Operations (OMO) of the Reserve Bank of New Zealand (RBNZ), including overnight repo transactions and issuance of RBNZ bills (to remove unwanted liquidity) fall within the "Liquidity Operations", as do FX Swaps and Basis Swaps operations. The Standing facilities are made up of the Overnight Reverse Repo Facility and a Bond Lending Facility. Finally, "Other Domestic Operations" consist of the repurchase or swapping of New Zealand government securities.

The following securities are eligible for the RBNZ's overnight repo transactions within the Liquidity Operations and the Bond Lending Facilities (part of the Standing facilities):

- > New Zealand Government Treasury bills;
- > New Zealand Government bonds;
- > New Zealand Government inflation-indexed bonds; and
- > Other (non-New Zealand Government) Securities as approved by the RBNZ.

Covered bonds fall within this final definition, as long as they comply with the eligibility criteria. These are set out in the section below. Covered bonds are not eligible for other RBNZ monetary operations. The eligibility of securities for the 'Overnight Reverse Repo' under the RBNZ Standing Facilities is restricted solely to New Zealand Government bonds, Treasury bills and RBNZ bills. For the "Other Domestic Operations", the RBNZ from time to time offers to either repurchase and/or swap New Zealand Government securities. Purchases may be for the RBNZ's own account or on behalf of the Crown.

## **Covered bond eligibility for RBNZ operations**

As explained above, covered bonds are eligible for the RBNZ's overnight repo transactions within the Liquidity Operations and the Bond Lending Facilities, as long as they fit the following criteria:

### **Rating**

- > Issues are rated AAA by at least two acceptable rating agencies. In case of more than two issue ratings, at least two agencies must rate the issue AAA, and no rating should be lower than AA+.
- > The issuer has a credit rating from at least two acceptable rating agencies.

### **Cover pool**

- > The cover pool must be comprised of New Zealand originated first registered mortgages on New Zealand residential properties.
- > The mortgage collateral is owned by a special purpose vehicle (SPV) that is bankruptcy remote from the originator.
- > The loan-to-value ratio for each individual mortgage does not exceed 80%.
- > Mortgages with loan to value ratios that exceed the 80% level will be removed from the cover pool and replaced with qualifying mortgages.
- > Only loans that are performing have been included in the pool (non-performing loans are defined as those that are 90 days or more past due).
- > "Asset monitors" independent from the trustee and the originator verify calculations relating to asset coverage tests and any other key ratios and provide these, and any other relevant reports, to the RBNZ on a regular basis.

### **Price sources**

- > Covered bond pricing is available on at least 80% of days via the NZFMA's NZ Credit Market Daily Pricing Service. Pricing is available at all month-ends.

### **Currency**

- > Issues are denominated in New Zealand dollars (NZD) only.

### **Settlement**

- > Covered bonds are lodged and settled in NZClear. Eligibility criteria for lodgement into NZClear include having a suitable registrar and paying agent.

### **Own-name bonds**

- > Covered bonds are repo-eligible on a two-name basis only, thus removing the possibility of issuers posting 'own-name' covered bonds to the RBNZ.

Of course, as is the case for all central banks, the RBNZ reserves the right to refuse an asset for any reason and is not required to disclose such reasons. In particular, "it should be noted that if the credit rating of the issue falls below the Reserve Bank's threshold, then the issue will cease to be eligible in the Reserve Banks' operations."

Thus, the RBNZ applies relatively strict criteria in setting eligibility for covered bonds, in particular, the requirement that the cover pool can only comprise New Zealand originated first registered mortgages on New Zealand residential properties currently restricts the use of the repo facility to covered bonds issued by domestic banks (or New Zealand subsidiaries of foreign banks using domestic loans). Nonetheless, if a foreign issuer were to have eligible loans in the pool (and fulfil all the other criteria), their covered bonds could also be eligible. Covered bonds are also subject to the strict requirement of being NZD-denominated, consistently with the rules for all

other securities; even bonds issued or guaranteed by foreign governments must be NZD-denominated. Therefore, US Treasuries or Bonds in their domestic currencies would technically not be eligible for the RBNZ's operations.

The full haircuts matrix can be found below. It shows that NZD Covered bonds receive relatively benign haircuts, in line with two-name basis NZD-denominated RMBS, but significantly better than single-name RMBS. Ultimately, the eligibility criteria for repo are strict but eligible covered bonds receive a highly favourable treatment.

> FIGURE 14: HAIRCUT MATRIX

Eligible Security	Minimum Rating	Haircut		
		0 ≤ 1 yr	1 – 5 yrs	≥ 5 yrs
<b>NZ Government &amp; RBNZ</b>				
Treasury Bills	AA+	1%	2%	3%
Bonds				
Inflation-linked Bonds				
RBNZ Bills	n/a	1%	2%	n/a
<b>Acceptable Kauri issues (NZD)</b>				
Liquidity Category 1 Country*	AAA	3%	4%	5%
	AA- to AA+	6%	7%	8%
Liquidity Category 2 Country**	AAA	4%	5%	6%
	AA- to AA+	7%	8%	9%
<b>Bank Securities (NZD)</b>				
Bank bonds – NZ Registered Banks only	AAA	5%	6%	8%
	AA- to AA+	8%	9%	10%
	A- to A+	10%	12%	15%
	BBB- to BBB+	15%	17%	20%
NZ Registered Bank RCD's	A-1 and above	10%	n/a	n/a
	A-2	20%	n/a	n/a
<b>Local Authorities (NZD)</b>				
Bonds	AAA	3%	4%	5%
	AA- to AA+	6%	7%	8%
	A- to A+	10%	12%	15%
	BBB- to BBB+	15%	17%	20%
CP	A-1 and above	6%	n/a	n/a
	A-2	15%	n/a	n/a
<b>State-Owned Enterprises (NZD)</b>				
Bonds	AAA	5%	6%	8%
	AA- to AA+	8%	9%	10%
	A- to A+	10%	12%	15%
	BBB- to BBB+	15%	17%	20%
CP	A-1 and above	10%	n/a	n/a
	A-2	20%	n/a	n/a

Eligible Security	Minimum Rating	Haircut		
		0 ≤ 1 yr	1 – 5 yrs	≥ 5 yrs
<b>Corporate Securities (NZD)</b>				
Bonds	AAA	5%	6%	8%
	AA- to AA+	8%	9%	10%
	A- to A+	10%	12%	15%
	BBB- to BBB+	15%	17%	20%
CP	A-1 and above	10%	n/a	n/a
	A-2	20%	n/a	n/a
<b>Securities issued/guaranteed by Foreign governments</b>				
NZD Denominated	AA+	6%	7%	8%
	A-1+			

Source: RBNZ, HSBC

\* Liquidity Category 1: Austria, Australia, Belgium, Canada, Denmark, Finland, France, Germany, Italy, Japan, Luxembourg, Netherlands, Norway, Singapore, Sweden, Switzerland, United Kingdom and United States;

\*\* Liquidity Category 2: Czech Republic, Hong Kong, Ireland, Malta, Spain, South Korea.

> FIGURE 15: HAIRCUT MATRIX

Eligible Security	Minimum Rating	Haircut	
		< 3 years	≥ 3 years
<b>Asset Backed Securities (NZD)**</b>			
Bonds	AAA	10%	15%
CP	A-1+	10%	n/a
<b>RMBS (NZD; on a single name basis)*</b>			
Bonds	AAA/A-1+	19%	19%
CP			
<b>RMBS (NZD; on a two name basis)</b>			
Bonds	AAA/A-1+	5%	8%
CP			
<b>Covered Bonds (NZD)</b>			
Bonds	AAA	5%	8%

Source: RBNZ, HSBC

\* The RBNZ assumes that these are not traded in the secondary market and no market price is available;

\*\* The Reserve Bank will not accept securities from an institution which is obliged to provide more than 50% of the liquidity provision.

## IX. CANADA: ELIGIBILITY CRITERIA FOR BANK OF CANADA MARKET OPERATIONS

The Bank of Canada uses a number of permanent facilities to conduct market operations:

- > **OR/ORR:** The Bank conducts Overnight Repo (OR) and Overnight Reverse Repo (ORR) transactions to implement its monetary policy framework in the Large Value Transfer System (LVTS) environment. ORs and ORRs are used to reinforce the target overnight rate at the mid-point of the operating band.
- > **Overnight Standing Repo Facility:** The Bank makes this standing facility available to Primary Dealers on an overnight basis at the upper limit of the operating band (Bank Rate).
- > **Term Repo for Balance Sheet Management Purposes:** The Bank may acquire assets temporarily in the secondary market to manage short-term changes in the Bank's balance sheet, which is typically due to seasonal fluctuations in the demand for bank notes.

- > **Securities Repo Operations (SROs):** The SROs will provide a temporary source of Canadian government bonds and treasury bills to primary dealers to support liquidity in the securities financing market, making a portion of its holdings of these securities available on an overnight basis through repurchase operations.
- > **Standing Liquidity Facility:** On 19 March 2020, the Bank of Canada launched its 'Standing Term Liquidity' Facility. The Bank of Canada provides Large Value Transfer System (LVTS) advances, which are collateralised overnight loans to direct participants in the LVTS. The same assets eligible for the Bank's Standing Liquidity Facility (SLF) are also eligible to obtain intraday liquidity for participants in the LVTS. On 30 March 2020, the Bank of Canada launched its 'Standing Term Liquidity Facility'. This programme is an addition to the standing liquidity facility and functions very similarly to the latter. However, it is characterized by a greater range of eligible collateral which includes own-use covered bonds.
- > **Bank of Canada Margin Call Practice for Domestic Market Operations:** For transactions outstanding against securities purchased or sold under a term purchase and resale agreement, the Bank values the securities daily, and compares that value to the contract valuation in order to ensure the Bank is adequately protected. The Bank may initiate a margin call, requesting the counterparty to deliver additional securities to cover any shortfall.

The Bank of Canada provides access to liquidity through its Standing Liquidity Facility (SLF), to institutions participating directly in the Large Value Transfer System (LVTS). Under the provisions of the Bank of Canada Act, the Bank's LVTS advances (the overdraft loans) are required to be made on a secured basis. The collateral used to secure these loans must be acceptable to the Bank of Canada, and an appropriate margin is applied. Notwithstanding the eligibility criteria listed below, the Bank of Canada retains the right of refusal for any asset or programme.

In December 2012, the Bank of Canada added Canadian covered bonds as eligible assets to the list of collateral that can be pledged under its Standing Liquidity Facility. The covered bonds have to fulfil the following criteria and conditions, which apply equally to the Standing Term Liquidity Facility:

- > Only covered bonds from programmes that are registered with the Covered Bond Registrar (CMHC) and are compliant with the federal legislative framework for covered bonds are eligible, i.e. Canadian Registered Covered Bonds.
- > The Covered Bonds must be rated equivalently to a rating of AAA.
- > Eligibility is restricted to covered bonds denominated in Canadian Dollars. This requirement is not limited to covered bonds but is applicable to all asset classes with the exception of US Treasuries denominated in US dollars.
- > Covered bonds are typically subject to a 5% issuer concentration limit.
- > The combined amount of covered bonds, term ABS and ABBCP originated or sponsored by a single institution pledged by an LVTS participant cannot be more than 5% of the total collateral value of that participant.
- > No more than 20% of an institution's pledged collateral may be comprised of municipal government or private sector securities including covered bonds. Securities issued by other LVTS participants (also including covered bonds) are subject to a 10% limit.
- > Banks cannot submit their own covered bonds as collateral.
- > Soft-bullet covered bonds are eligible as collateral.

> FIGURE 16: HAIRCUTS FOR VARIOUS ASSET CLASSES AND MATURITY BRACKETS

Collateral type	up to 3 months	>3-12 months	>1-3 years	>3-5 years	>5-10 years	>10-35 years	>35 years
Securities issued by the Government of Canada	0.25%	0.5%	1.0%	1.5%	2.0%	3.0%	3.5%
Government of Canada – stripped coupons and residuals	0.25%	0.5%	1.0%	1.5%	2.0%	4.0%	11.5%
Securities guaranteed by the Government of Canada (excl. NHA mortgage-backed securities)	0.5%	1.0%	1.5%	2.0%	2.5%	4.0%	4.5%
NHA mortgage-backed securities	1.5%	2.0%	2.5%	3.0%	3.5%	5.0%	5.5%
Government of Canada guaranteed – stripped coupons and residuals	0.5%	1.0%	1.5%	2.5%	4.0%	5.5%	13.0%
Securities issued by a provincial government	1.0%	1.5%	2.0%	2.5%	3.0%	4.0%	6.0%
Provincial government – stripped coupons and residuals	1.0%	1.5%	2.0%	3.0%	4.5%	6.0%	17.0%
Securities guaranteed by a provincial government	1.0%	2.0%	2.5%	3.0%	3.5%	4.5%	6.5%
Provincial government guaranteed – stripped coupons and residuals	1.0%	2.0%	2.5%	3.5%	5.0%	6.5%	17.5%
Securities issued by a municipal government	1.25	2.5%	3.0%	3.5%	4.0%	5.0%	7.0%
Bankers' acceptances, promissory notes, commercial paper, including those of foreign	1.5%	3.0%	–	–	–	–	–
Term Asset-backed securities	3.75%	7.5%	8.0%	9.0%	12.0%	15.0%	17.0%
Asset-backed CP	3.75%	7.5%	–	–	–	–	–
<b>Covered bonds</b>	<b>2.0%</b>	<b>3.0%</b>	<b>3.5%</b>	<b>4.0%</b>	<b>6.5%</b>	<b>8.5%</b>	<b>9.0%</b>
Corporate and foreign-issuer bonds	2.0%	3.0%	3.5%	4.0%	6.5%	8.5%	9.0%
Securities issued by the US Treasury*	1.0%	1.0%	1.0%	1.5%	3.0%	5.0%	–

Source: Bank of Canada, HSBC

\* An additional 4% will be added to the margin requirements for securities issued by the US Treasury to account for foreign exchange risk.

## X. DENMARK: ELIGIBILITY CRITERIA FOR DANMARKS NATIONALBANK

Eligible counterparties can pledge securities as collateral which comprises of securities issued or guaranteed by the Kingdom of Denmark, bonds issued by KommuneKredit as well as the Danish covered bonds. Moreover, bonds issued by Føroya Landstýri (the government of the Faroe Islands) also qualify. The securities must be registered with VP Securities and traded at NASDAQ OMX Copenhagen. The securities must be denominated in DKK or EUR, in the latter case an additional exchange-rate haircut of 3% is deducted. At the request of the account holders and subject to specific assessment, Danmarks Nationalbank may also include other assets in the collateral basis for credit facilities in DKK.

The collateral value of the securities is calculated on the basis of their official price on NASDAQ OMX Copenhagen on the preceding day, including accrued interest, less a securities-specific valuation haircut. If an asset has not been traded on the previous banking days, a theoretical price set by Danmarks Nationalbank is used for the calculation of its collateral value.

The haircut applied by Danmarks Nationalbank for eligible securities depends on the liquidity category and the remaining maturity:

- > **Category 1:** Securities issued by the Kingdom of Denmark
- > **Category 2:** Mortgage bonds (ROs), covered bonds (SDOs) and covered mortgage bonds (SDROs) with a circulating volume of more than 1 bn euro or the equivalent value in Danish kroner. The bonds must also be comprised by a price-quoting system approved by Danmarks Nationalbank for this purpose and have at least three price quotes
- > **Category 3:** Other ROs, SDOs and SDROs, as well as bonds guaranteed by the Kingdom of Denmark and bonds issued by KommuneKredit
- > **Category 4:** Bonds issued by the government of the Faroe Islands.

> FIGURE 17: HAIRCUTS FOR ELIGIBLE SECURITIES WITH FIXED OR VARIABLE COUPON RATE\*

Remaining maturity	Category 1	Category 2	Category 3	Category 4
0-1 year	0.5%	1.0%	1.0%	4.0%
1-3 years	1.0%	1.5%	2.5%	7.0%
3-5 years	1.5%	2.5%	4.0%	8.5%
5-7 years	2.0%	3.5%	5.0%	10.0%
7-10 years	3.0%	4.5%	6.0%	11.0%
> 10 years	5.0%	8.0%	9.0%	14.0%

Source: Danmarks Nationalbank, HSBC

\* When a theoretical price is used, an additional haircut of 5% is deducted for all types of securities, except for securities issued by the Kingdom of Denmark. An exchange-rate haircut of 3% is deducted when securities in euro are pledged as collateral for credit facilities in DKK.

## XI. SWEDEN: ELIGIBILITY CRITERIA FOR THE RIKSBANK

The Central Bank of Sweden, the Riksbank is accepting covered bonds as collateral for Open Market Operations. This includes loans on an intraday and overnight basis as well as Repos with longer maturities.

### Eligibility of assets

In order for an asset to be accepted as collateral, the outstanding volume for each issue must be at least SEK 100 mn (or the equivalent in another currency). Also, the securities must be denominated in one of the following currencies: USD, GBP, DKK, EUR, JPY, NOK or of course the Swedish Krona (SEK). The issuer must be domiciled in either the USA, Australia Belgium, Denmark, Finland, France, Greece, Ireland, Italy, Japan, Canada, Luxembourg, Netherlands, Norway, New Zealand, Portugal, Switzerland, Spain, United Kingdom, Sweden, Germany or Austria.

The asset also ought to meet the following criteria concerning its credit rating:

- > It must have at least a credit rating of AA-
- > The credit rating must be confirmed by the credit rating agencies that the Riksbank acknowledges: Standard & Poor's, Moody's, Investor Services and Fitch Rating
- > It may not be rated by a possible guarantor
- > For securities which are not issued by credit institutions, confirmation of only the issuer's credit rating is acceptable
- > The most current credit rating has to be used

- > In case of credit assessments by more than one rating agency, the asset must meet the rating requirements in at least two credit ratings
- > The Riksbank can always chose to assess the credit quality in a way different from the rating agencies to decide whether an asset may be utilized as collateral

### Covered Bonds

Covered Securities, such as Covered Bonds, must meet the requirements in Article 52.4 of Directive 2009/65/EC of the European Parliament and of the Council of July 13, 2009 on the coordination of laws, regulations and administrative provisions relating to undertakings for collective investments in transferable securities (UCITS). This means that, covered assets outside of the EEA cannot be regarded as such and can therefore not be seen as collateral.

In light of the COVID-19 crisis, the permitted share of covered bonds in a counterparty's collateral volume for credit with the Riksbank was increased from 80% to 100%. Furthermore, the permitted limit for an individual covered bond issuer, or group of individual issuers, was raised from 50% to 100%, and the Riksbank accepts own-use covered bonds. All these measures are temporary.

### Valuation of the collateral

When it comes to the asset valuation for both the Intraday Credits as well as the Repo-operations, the Riksbank differentiates between three major categories of assets, called 'liquidity classes'.

> FIGURE 18: LIQUIDITY CLASSES AS DEFINED BY THE RIKS BANKIR

Liquidity class	Category 1	Category 2	Category 3
Types of assets	<ul style="list-style-type: none"> <li>- securities issued by governments</li> <li>- securities issued by central banks</li> <li>- other receivables at central banks</li> </ul>	<ul style="list-style-type: none"> <li>- securities issued by international organizations</li> <li>- securities issued by governments</li> <li>- securities issued or guaranteed by municipalities, country councils or equivalent foreign local authorities</li> <li>- covered securities*</li> <li>- securities issued by so-called agencies**</li> </ul>	Other eligible securities

Source: Riksbank, HSBC

\* Such as covered bonds

\*\* The following are considered to be agencies: Agence française de développement (France), Bpifrance Financement (France), Caisse d'armotissement de la dette sociale (France), Classe des dépôts et consignations (France), Erste Abwicklungsanstalt (Germany), European Financial Stability Facility (Luxembourg), Federal Home Loan Mortgage Corporation (USA), Federal National Mortgage Association (USA), FMS Wertmanagement (Germany), Fondo de Reestructuración (Spain), Instituto de Crédito Oficial (Spain), KfW (Germany), Landesbank Baden-Württemberg (Germany), Landwirtschaftliche Rentenbank (Germany), Nederlandsche Waterschapsbank (Netherlands), NRW.Bank (Germany), Union Nationale Interprofessionnelle pour l'Emploi dans l'Industrie et le Commerce (France)

On the basis on the classification outlined in Figure 18, the following haircuts (Figure 19) are applied. It is noteworthy, however, that extra haircuts will be applied if the asset is valued theoretically. This is not the case if it has been issued by the Riksbank. Also, for assets denominated in a currency other than the Swedish Krona, a further hair-cut is applied to reflect the foreign exchange risk (4% for EUR, DKK and NOK; 5% for GBP; 6% for USD and 9% for JPY).

> FIGURE 19: HAIRCUTS APPLIED TO SECURITIES BY THE RIKSBANK\*

Remaining maturity	Category 1			Category 2			Category 3		
	Fixed rate	Fixed rate	Fixed rate	Variable rate	Zero coupon	Variable rate	Zero coupon	Zero coupon	Zero coupon
0-3 year	3.0%	1.0%	3.0%	3.0%	3.0%	5.0%	8.5%	6.0%	9.0%
3-5 years	4.0%	2.0%	7.0%	5.0%	4.0%	10.0%	11.0%	8.5%	14.0%
5-7 years	5.0%	5.0%	9.0%	7.0%	6.0%	15.0%	15.0%	12.0%	27.0%
7-10 years	6.0%	6.0%	12.0%	10.0%	10.0%	20.0%	20.0%	17.0%	35.0%
Greater than 10	7.0%	7.0%	20.0%	15.0%	14.0%	25.0%	35.0%	30.0%	40.0%

Source: Riskbank

\* A haircut of 0.5% will be applied to account balances with central banks. Haircuts are not applied to account balances with the Riksbank and to securities issued by the Riksbank.

### **XII. COVERED BONDS AND REPOS: CONCLUSION**

The comparison of the various treatments of covered bonds by some of the major central banks underlines the special status of covered bonds. In our opinion, this is driven by the macro-economic benefits of covered bonds through the provision of cheap residential (and commercial) mortgages and by giving banks a stable and relatively low-cost additional funding channel. However, there is no uniform approach and stances towards covered bonds by the various central banks differ considerably. Broadly speaking, covered bonds receive more favourable treatment in those countries where they play a more pivotal role in the funding of the domestic banking sector. This applies primarily in terms of eligibility of covered bonds as collateral for repo operations, but also in terms of haircuts.

## **2.4.1 COVERED BONDS VS. OTHER ASSET CLASSES**

By Florian Eichert, Crédit Agricole CIB,  
Frank Will, HSBC & Chairman of the ECBC EU Legislation Working Group

### **I. INTRODUCTION**

In the past, a traditional spread ranking always had sovereign bonds trade the tightest followed by sub-sovereigns and agencies, and then covered bonds followed by senior unsecured debt. However, with the financial crisis, the subsequent sovereign debt crisis as well as quantitative easing (QE) by the Eurosystem, this ranking as well as the spread differences between these products have been profoundly shaken up.

Instead of trading with a significant pick-up, covered bonds in a number of countries have evolved to be the tightest product, in the case of Italy at some point trading as much as 200bp inside their respective sovereign debt. Senior unsecured debt on the other hand widened to levels vs. covered bonds well in excess of their pre-crisis levels only to come back to trade exceptionally close to covered bonds as investors viewed the emergence of non-preferred senior debt as additional protection while at the same time materially reducing preferred senior issuance volumes. Most recently, the ECB's TLTRO III as well as a COVID-19-related surge in deposits have reduced wholesale funding needs of banks even further while the opposite has happened to the funding needs of sovereign and SSA issuers such as the European Union.

In this article we will take a look at how spreads have evolved across these products, assess what the rationale is for the differences and show how investors deal with the situation.

### **II. SPREAD OVERVIEW COVERED BONDS VS. SOVEREIGN DEBT AND SENIOR UNSECURED**

Since 2014, spreads between covered bonds and sovereign / SSA debt have been driven to a large extent by the monetary policy stance of the European Central Bank (ECB). When the first round of QE started in October 2014 the ECB only included covered bonds and ABS in the scope of eligible purchases. This led to a substantial tightening of spreads between covered bonds and public sector debt. When the Eurosystem then announced the expansion of QE to public sector debt, the differences widened again.

With the emergence of deeply negative EUR rates in 2019, covered bonds then struggled to follow sovereign debt down into the rabbit hole and their spreads to core sovereign debt especially at the short end moved materially wider initially. However, as investors adjusted to the new situation, their reluctance to buy also covered bonds below 0% faded and spreads to the public sector asset classes normalized again.

Last but not least, the beginning of the COVID-19 crisis early 2020 then yet again changed the dynamics. On the one hand monetary policy became even more accommodative and while the newly introduced PEPP focused primarily on public sector purchases, the cumulative covered bond buying by the ECB remained more or less unchanged. At the same time, however, primary market dynamics changed completely with sovereign and SSA funding needs shooting up while covered bond issuance dropped on the back of rising deposits and long-term central bank liquidity (TLTRO III by the ECB or TFSME by the Bank of England).

> FIGURE 1: AVERAGE ASSET SWAP SPREADS 10Y SPANISH COVERED AND SOVEREIGN BONDS BP



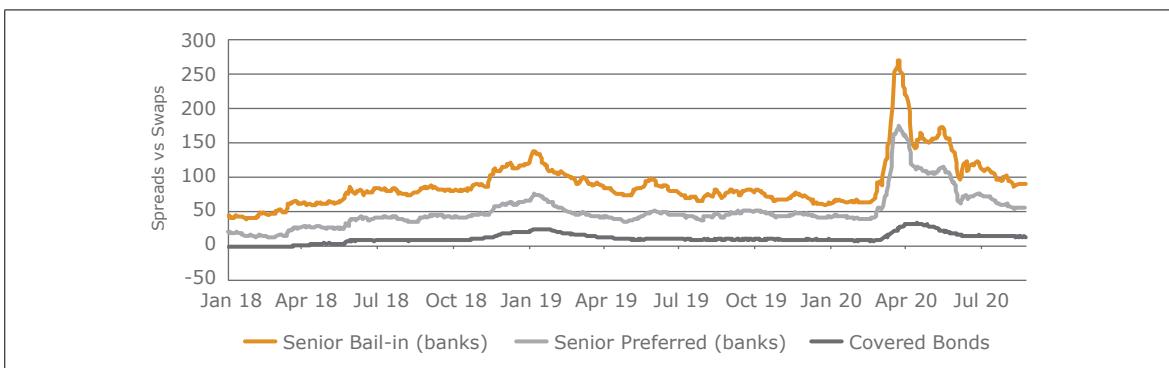
Sources: Bloomberg, Crédit Agricole CIB

Bank treasuries generally have a broad range of funding channels available including deposits, covered bonds, securitisation and unsecured funding. All of these various funding tools have their pros and cons from an issuer perspective. Senior unsecured funding is probably the most flexible form as it does not restrict the composition of the asset side. Covered bonds on the other hand require the issuers to maintain a cover pool of high quality assets backing the bonds. Moreover, regulatory rules and rating agencies often require that the mismatch between the cover assets and outstanding covered bonds is limited and that the covered bond issuer holds a certain amount of overcollateralisation (OC). In particular the rating agencies often demand high OC level going well beyond the legal requirements.

From an investor perspective, the secured character of covered bonds combined with their favourable regulatory treatment (low risk weights, exemption from bail-in under BRRD, LCR-eligibility, etc.) make them an attractive investment usually reflected in significantly lower spread levels than senior unsecured debt.

In a risk-on environment, the spread differentials between senior unsecured bank debt and covered bonds tend to be relatively low. In a compressed yield environment, investors in search of yield are inclined to accept the higher risk of unsecured paper in return for a relatively small risk premium. This is particularly true for shorter-dated senior unsecured paper and for bonds issued by strong institutions, where the downside risks are often regarded as being smaller. However, if the market is in risk-off mode the yield differentials between both asset classes tend to be higher as well as more volatile. Figure 2 shows the divergent spread impact of the COVID-19 crisis on the spreads of covered bonds on the one hand and on those on senior non-preferred and senior preferred on the other hand.

> FIGURE 2: COVERED BONDS VS SENIOR PREFERRED AND SENIOR NON-PREFERRED BANK BONDS



Source: IHS Markit, HSBC

From an issuers perspective the choice between the various funding instruments has become more complex and is no longer simply a function of lower funding costs. In the world of TLAC (Total Loss-Absorbing Capacity) and MREL (Minimum Requirement for Own Funds and Eligible Liabilities), bank treasuries have to ensure a minimum level of bail-in-able debt, which could be achieved by issuing senior unsecured debt. Many EU banks issue senior non-preferred debt to fulfil the requirements for bail-in-able debt. Moreover, covered bonds limit the issuer's flexibility regarding the underlying cover assets and cause higher administrative costs (e.g. hedging, additional ratings, cover pool administrator) compared to senior unsecured bonds. If the spread between both asset classes is lower than the difference in administrative costs and the costs for the reduced flexibility, then it is often more attractive to issue senior unsecured debt. This holds even more true if an issuer needs to raise the amount of bail-in-able liabilities.

The observed generally low spread differentials between covered bonds and senior unsecured bonds are in stark contrast to the regulatory developments over the last few years. Covered bonds are exempted from bail-in under the Bank Recovery and Resolution Directive (BRRD) which is also reflected in the more covered bond-friendly rating methodologies of the major rating agencies (see separate section below). However, we believe these factors continue to have only a limited impact on spreads, as technicals (supply volumes, absolute yield levels and central bank policies) will remain the dominant spread drivers. Moreover, even with BRRD and Single Resolution Mechanism (SRM) in place, many senior unsecured investors still view it as unlikely that there will be a senior bail-in of large, systemically important institutions, especially since many issuers are in the process of building up a buffer of senior non-preferred bonds, making a bail-in of senior preferred bonds less likely. The senior unsecured ratings of many covered bond issuers have already been upgraded due to the build-up of bail-in-able securities.

### **III. WHICH FUNDAMENTAL FACTORS DRIVE COVERED BONDS VS. SENIOR UNSECURED?**

Comparing covered bonds and senior unsecured bank debt is ultimately a choice of where to invest within a bank's capital structure. Both asset classes are senior bank liabilities. Senior unsecured debt is structurally subordinate to covered bonds due to covered bond holders' preferential claim on the cover pool, on which senior unsecured creditors have a claim on only after covered bond holders and other preferred creditors have been fully repaid.

The relative value between both asset classes is driven by various aspects:

- > **Probability of default:** Covered bonds are structured to survive an issuer event of default and not to accelerate automatically. As a result, the *conditional* probability of default (PD) of a covered bond (i.e. probability of payment interruptions on the covered bonds post issuer default) should typically be lower than the senior unsecured PD, which represents the cap for the covered bond PD. The strength of the covered bond framework plays a major role here. This includes provisions for an effective segregation of cover assets and privileged derivatives in an insolvency scenario as well as (structural) features to mitigate liquidity risks such as liquidity buffers or different repayment structures. The introduction of senior non-preferred debt in many European countries has created an additional buffer for senior preferred debt, reducing the PD of such instruments.
- > **Recovery rate:** Different recovery rates are a major determinant between covered bonds and senior unsecured paper. In a default scenario, covered bond holders benefit from the double recourse to both the cover pool and to the issuing bank, ranking *pari-passu* with senior unsecured investors should the cover pool be insufficient for a full recovery. Senior secured issuance structurally subordinates senior unsecured creditors, reducing their recovery expectations. Both the overcollateralisation (OC) level and the quality of the collateral are decisive factors for the expected recovery of a covered bond relative to senior unsecured bonds. As normally only high quality assets are included in the cover pool and the sometimes very high level of OC reduce both the quantity and the quality of the assets (directly) available to senior unsecured bondholders.

- > **Bail-in risk:** Systemic support has been the main determinant for the very low default rates on senior unsecured bonds despite a number of bank failures that occurred during the financial crisis. However, bail-in risk has become a new factor to the relative value equation. While covered bonds have been generally exempted from bail-in under the European bank resolution framework (with the exception of any undercollateralised part), senior unsecured creditors can be subject to bail-in under the Bank Recovery and Resolution Directive (BRRD) before resolution funds are tapped or taxpayer money is injected. However, as mentioned above, senior non-preferred bonds are subordinated to the traditional senior unsecured debt. This new asset class reduces the bail-in risk for senior preferred unsecured investors.
- > **Regulatory treatment:** Covered bonds are treated favourably to senior unsecured paper in a number of regulatory frameworks, such as the Capital Requirements Regulation (CRR) where lower risk-weights are assigned to covered bonds, the liquidity coverage framework where senior unsecured paper are not eligible while most covered bonds qualify as either Level 1B, 2A or 2B, and Solvency II where covered bonds benefit from lower risk factors or the UCITS Directive allowing for higher investment limits in covered bonds. Unfavourable regulatory treatment can either exclude certain investor groups or lead to higher spreads being demanded as compensation for additional cost of holding senior debt compared to covered bonds.
- > **Central bank repo eligibility and haircuts:** For bank investors, central bank repo eligibility is an important factor when structuring their liquidity portfolios. If eligible, central banks apply higher haircuts to senior unsecured bank paper than covered bonds. Higher haircuts increase banks' funding costs as the haircut part of the bond posted as collateral needs to be funded using alternative sources.
- > **Rating stability and differential:** Rating agencies used to link their rating on covered bonds to the issuer/senior unsecured rating. The senior unsecured rating was the floor for the covered bond rating, with the uplift depending on asset-liability mismatches, recovery rates, and legal and structural aspects. In light of the new BRRD, all major rating agencies developed new frameworks at least partly decoupling covered bond ratings from the issuer rating. In essence, senior unsecured ratings benefit less from government support, while the gap between covered bonds and the issuer rating is wider. While even in the past covered bond ratings tended to be less volatile than senior unsecured bonds, this is the case even more under the revised criteria.

> FIGURE 3: PROS & CONS OF COVERED BONDS VS. SENIOR UNSECURED FROM AN INVESTOR'S POINT OF VIEW

<b>Advantages of Covered Bonds</b>	<b>Advantages of Senior Unsecured Debt</b>
<ul style="list-style-type: none"> <li>&gt; Double recourse to issuer and cover pool</li> <li>&gt; Higher rating than unsecured debt</li> <li>&gt; Lower risk weighting for CRR-eligible Covered Bonds bought by EEA banks</li> <li>&gt; Favourable treatment under Solvency II</li> <li>&gt; Generally better liquidity through larger issue size</li> <li>&gt; Favourable repo treatment at ECB and other central banks</li> <li>&gt; Most covered bonds are eligible as liquid assets under the CRR</li> <li>&gt; No risk of bailing-in of the secured claim</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Higher yield levels (although 'spread give up' is at low levels at least at the short end of the curve)</li> <li>&gt; Improved investor protection through higher capital requirements and implementation of senior non-preferred buffer</li> <li>&gt; Often high turnover despite smaller deal sizes (due to lower portion of buy-and-hold investors)</li> </ul>

Source: HSBC

## **1. Differences in regulatory treatment**

### **Liquidity Coverage Ratio (LCR)**

The liquidity coverage ratio which was first introduced by the Basel Committee on Banking Supervision in December 2009 requires banks to hold a stock of unencumbered high quality liquid assets to meet 30 days cash outflows under an acute stress scenario. Meanwhile, the net stable funding ratio (NSFR) measures the amount of longer-term, stable sources of funding employed by a bank relative to the liquidity profiles of the assets and the potential for contingent calls on funding liquidity arising from off-balance sheet commitments and obligations.

While highly-rated covered bonds form part of the set of liquid assets, senior unsecured bank bonds do not qualify. Next to cash, deposits at central banks, all types of bonds issued or guaranteed by EU Member States' central government, certain agency and supranational issues, Level 1 HQLAs (High Quality Liquid Assets) include covered bonds that meet certain conditions: They must be issued by an institution out of the European Economic Area, be credit quality step 1 (i.e. a rating of AA- or better), have a minimum size of EUR 500mn as well as a minimum overcollateralisation of 2%. Whilst other Level 1 assets are not subject to liquidity buffer limits or haircuts to their market value, Level 1 covered bonds will be subject to a 70% cap in the liquidity buffer and to a 7% haircut.

Level 2A assets include regional governments, local authorities or public-sector entities with a risk weight of 20% and covered bonds with a credit quality step 2 rating and non-EU covered bonds rated at credit quality step 1. Also, corporate bonds with at least credit quality step 1, a minimum issue size of EUR 250mn and maximum maturity of 10 years at the time of issuance are classified as Level 2A.

Level 2B incorporates high quality securitisations for RMBS, auto, SME and consumer loans and high quality covered bonds that do not meet the rating threshold of Level 1 and 2A. Shares meeting certain conditions and corporate bonds with at least credit quality step 3, a minimum issue size of EUR 250mn and maximum maturity of 10 years at the time of issuance are accepted as Level 2B.

The classification of covered bonds as Level 1 and Level 2 means that many European bank treasuries use covered bonds in addition to sovereign, agency and supranational debt in order to optimise their liquid asset portfolio under both liquidity and risk-return considerations. The spread impact on covered bonds, however, has been limited as spreads in this sector are already heavily compressed due to the CBPP3.

### **Risk-weights**

In times of rising minimum requirements for regulatory capital, risk-weights applied for the calculation of a bank's stock of risk-weighted assets have gained further importance. Regulatory capital is a bank's most expensive source of funding and bank investors are optimising their portfolios taking into account the capital consumption of their positions.

Bank investors based in the European Economic Area (EEA) can apply preferential risk-weights for covered bonds, fulfilling the criteria laid down in Article 129 CRR compared to senior unsecured bank bonds. A lower risk-weight means that banks have to hold less regulatory capital against a given position which benefits the average funding cost and thus the spread which is required. Covered bonds not fulfilling those criteria receive the same treatment as senior unsecured bonds. *Please refer to Article 2.2 of the Generic Section, for details on the determination of risk-weights for covered bonds.*

### **Bail-in**

In the EU, the Bank Recovery and Resolution Directive (BRRD) was adopted in 2014 together with the Single Resolution Mechanism (SRM). The BRRD defines the triggers for a resolution of a failing bank in the EU and provides the necessary tools while the SRM centralises the decision-making process for the large and cross-

border banks in the Euro Area. At the heart of the BRRD lies the bail-in tool. The bail-in tool, which aims to ensure that shareholders, sub-debt and senior unsecured investors will bear the losses of a struggling bank rather than the taxpayers, has become available to most EU governments as of the beginning of 2016. The possibilities for governments to support banks will be narrowed considerably and senior unsecured is at risk of burden-sharing after equity, sub debt and senior non-preferred.

Covered bonds have been excluded from the list of bail-in-able liabilities. Where appropriate, resolution authorities could exercise bail-in powers to a part of a secured liability that exceeds the value of the assets, i.e. any under-collateralised part or senior unsecured residual claim.

#### **BRRD/SRM implementation: Most countries follow in France's footsteps**

The BRRD/SRM is implemented at national level since the insolvency laws vary from country-to-country, making a one-size-fits-all solution for all European banks complicated. France was one of the first countries to implement the new European bail-in directive by modifying the hierarchy of claims in case of a resolution and introducing a new category of senior debt that counts toward Total Loss Absorbing Capital (TLAC)/MREL. This new category of senior debt is referred to as senior non-preferred (SNP) and is subordinated to other senior obligations but ranking senior to the traditional subordinated debt. The French banks continue to be able to issue traditional senior debt. Many other European countries such as Spain, Italy, Austria, Denmark and Sweden have followed into France's footsteps and also introduced MREL/TLAC-eligible senior non-preferred bonds as new asset class, ranking below senior-unsecured bonds.

Germany initially opted for a different approach but has amended its approach in the meantime. Since 21 July 2018 German banks are able to decide whether to opt for senior preferred or senior non-preferred debt. Plain vanilla senior unsecured bonds issued before that date are subordinated to the new senior preferred debt (but rank pari passu to senior non-preferred debt) and structured senior unsecured instruments. According to Article 64 of the ECB guidelines, in order to be eligible as repo collateral, marketable debt instruments cannot be subordinated to other debt instruments of the same issuer. Thus outstanding German plain-vanilla senior unsecured bank bonds, which had been issued before 21 July 2018, lost their ECB repo eligibility at the end of 2018.

In order to build up a sufficient capital buffer, banks have actively issues non-preferred bonds. That reduced the remaining wholesale funding needs and thereby negatively affects supply in (preferred) senior unsecured and to a certain extent even in covered bonds. Moreover, the introduction of the new asset class already had a positive impact on senior unsecured ratings as the senior non-preferred buffer offers additional protection from bail-in for senior unsecured investors. That could – at least in theory – reduce the spread between senior unsecured bonds and covered bonds.

#### **UK: ring fencing of covered bonds**

Since 1 January 2019, UK banks with a three-year average in retail deposits of over GBP 25bn must legally separate their core retail banking services from their investment and non-EEA banking activities. The goal of this structural reform was to support financial stability by making banking groups simpler and easier to 'resolve', ensuring that "if either the ring-fenced or the non-ring-fenced part of the bank fails, it will be easier to manage the failure in an orderly way without the need for a government bail-out". Building societies are exempted from ring-fencing.

The ring-fenced part primarily includes the domestic UK retail business, while the non-ring-fenced part mainly comprises the corporate and investment banking business of the banks. The residential mortgage business remains part of the ring-fenced bank and the covered bonds are issued out of the ring-fenced entity. Rating agencies reacted and the issuer ratings of several ring fenced entities were upgraded, while the non-ring-fenced entities were downgraded.

Moreover, Moody's stated in a sector comment that the inclusion of UK covered bonds within the ring-fenced banks (RFBs) "is credit positive for covered bonds as the RFB structure decreases the likelihood of bank failure and, as a consequence, the likelihood that banks will cease making payments under the covered bonds". In its report, Moody's emphasised the importance of the credit strengths of the issuers as one of the key drivers of the covered bond ratings and indicated that "the credit profiles of RFBs will be in line with or stronger than those of the existing banks, reflecting the less complex and less diversified business models of the RFBs relative to existing banks".

## **2. Ratings**

### **Amended rating methodologies**

In light of the bank resolution regimes, the major rating agencies have introduced amended methodologies for covered bonds. As a result, the average gap between issuer and covered bond ratings has widened. On the one hand, covered bonds are explicitly exempted from bail-in and the changes of the rating methodologies by the agencies reflect the preferential treatment of covered bonds under the new resolution regimes. On the other hand, issuer downgrades in some cases partly offset this positive effect. Nevertheless, the overall net effect of the introduction of the bail-in rules has been positive for the covered bond ratings.

From an analytical perspective, it is crucial that the starting point of the covered bond ratings is not the senior unsecured rating as the bailing-in of senior unsecured debt no longer automatically triggers an issuer default. The resolution measures principally aim at maintaining a going-concern entity. The fact that covered bonds are exempted from bail-in measures means that a different starting point for the covered bond rating has to be used. The recent changes of the rating methodologies address, at least partly, this new situation.

### **Structural subordination**

Differences in recovery expectations are another main determinant of the relative value between covered bonds and senior unsecured. Against this backdrop, rising concerns from senior unsecured investors about structural subordination have been a factor supporting the covered bond market. The increased use of covered bond funding by banks over the last several years means that more assets were ring-fenced. As assets in the cover pool are not available to cover the claims of senior unsecured investors in case of issuer insolvency<sup>1</sup>, market participants have started to worry about the growth in covered bond issuance and the subsequent reduction of assets available to unsecured investors in an insolvency scenario. This problem has been exacerbated by rating agencies' demands for higher overcollateralisation levels, which in most cases significantly exceed the legal overcollateralisation requirements and further reduce the amount of assets available for investors outside the cover pool.

While we understand the concerns in the market, we think asset encumbrance discussions often tend to overstate the problem arising from structural subordination through covered bonds while ignoring other sources of encumbrance (including contingent encumbrance when a bank's financial situation deteriorates) such as central bank repos/liquidity assistance as well as ignoring offsetting factors. The use of covered bonds usually results in lower funding costs for the banks and significantly broadens the investor base allowing issuers to tap rates investors such as central banks. In addition, it is a more stable funding base. Even if the unsecured market is closed for an issuer, the bank may still be able to access the wholesale markets by using covered bonds or, in a worst case scenario, it can retain the bonds to repo them with central banks such as the ECB. Moreover, the potential issuance volume of covered bonds is not unlimited. The availability of eligible assets is a restricting factor for covered bond issuance, putting a cap on the actual issuance potential. Also, the aforementioned requirements from rating agencies of high overcollateralisation levels further reduce the available headroom for covered bond issuance.

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<sup>1</sup> If all the covered bonds of an insolvent issuer have been repaid and the claims of all covered bond investors have been satisfied, the remaining assets in the respective cover pool would generally be made available on a pro-rata basis to the senior unsecured investors. Moreover, in some jurisdictions, such as Germany, in case of issuer insolvency senior unsecured investors would have access to assets in the cover pool that are obviously not necessary to cover the outstanding covered bonds and related liabilities. Given the dynamic character of the market, a very high hurdle must be overcome in order for this process to trigger, and we would expect that only in very few, selected cases the insolvency administrator of the cover pool would agree to such a transfer.

#### **IV. WHICH FUNDAMENTAL FACTORS DRIVE COVERED BONDS VS. SOVEREIGN AND SUPRA/AGENCY DEBT...?**

Despite the fact that covered bonds in a number of countries have at times traded well inside their sovereign debt, sovereign risk does fundamentally impact covered bonds. In fact, it impacts covered bonds in virtually all aspects of the product – the issuer, the quality of the cover pool, liquidity and refinancing risk in the structure as well as ratings.

- > Issuers especially those with a strong domestic presence are directly impacted by a weakening sovereign. Their business prospects deteriorate as a weaker sovereign and a weaker economic situation go hand in hand. In addition to this, many bank treasuries hold substantial volumes of their own sovereign debt making them directly susceptible to widening sovereign spreads.
- > Cover pool assets are impacted as weaker economic growth usually means higher unemployment and thus higher NPL ratios.
- > With very few exceptions, covered bonds are not pass-through securities. Hence bullet bonds refinance granular loan portfolios and there are mismatches that need to be refinanced via external liquidity. Should a sovereign run into trouble, issuers will find it harder and harder to refinance liquidity mismatches either via further issuance, third party liquidity lines or portfolio sales. Covered bond programs backed by pools that might not even have any problems credit quality wise could thus be impacted negatively.
- > For rating agencies sovereigns play a major role in rating covered bonds. They link issuer ratings to that of the sovereign unless an issuer has a substantial presence in other countries as well. They factor in sovereign bond spreads into their cash flow cover pool models thus driving up OC requirements in times of sovereign stress. And last but not least, Fitch, Moody's and S&P all operate with sovereign ceilings for structured finance instruments including covered bonds.

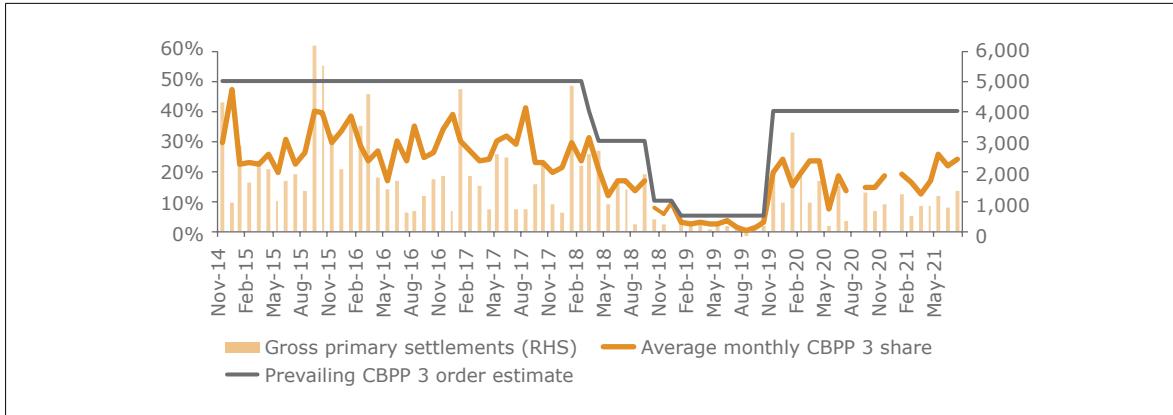
Bottom line is that sovereign risk plays too big of a role for covered bonds to ignore it. Nonetheless, there are reasons why at times covered bonds can very well trade inside their respective sovereign bond curves that go beyond merely differences in regulatory treatment.

#### **Quantitative easing and bond purchases**

Overall, the Eurosystem has acquired just below 45% of the eligible benchmark universe at the end H1 2021. The only other market for which we have comparable numbers is debt issued by supranational institutions. For sovereigns as well as SSAs shares are noticeably lower.

Unlike is the case for public sector purchases, the Eurosystem aims for a market neutral covered bond portfolio. Hence it aims to roughly match the various sectors' market shares also in its portfolio. However, the actual spread impact has also depended on just how much it could rely on primary markets and how much effort (or not) it had to put into chasing bonds in already illiquid secondary markets. The ECB's spread impact has thus been felt most intensely in the larger peripheral markets, where the ECB was forced to buy sizeable volumes but could not rely on primary markets to do so.

> FIGURE 4: GROSS PRIMARY MARKET SETTLEMENTS PER MONTH (EURM) CBPP 3 AS WELL AS ESTIMATED ORDER SIZE (% OF ISSUE SIZE)



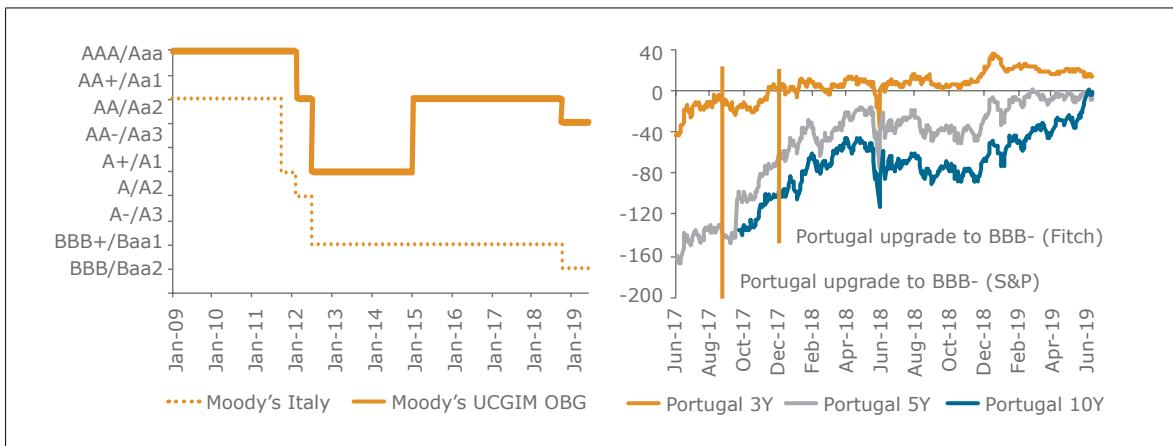
Source: Bloomberg, Crédit Agricole CIB

### Rating stability

Despite rating agencies factoring in sovereign ratings into covered bond ratings, they do allow for some uplift above the sovereign. The maximum depends on the rating agency and collateral type but it can reach up to 6 notches with Moody's or Fitch for example. Covered bond ratings can thus withstand pressure on sovereign ratings to a certain extent. Only once the maximum uplift above the sovereign is used up do they start to move lower as well.

Moody's and Fitch's OBG ratings of Italian national champions for example are rated 6 notches above the Italian sovereign and they have been much more stable historically than the Italian sovereign itself. In turn, in Portugal, investors who were prohibited from holding non-investment grade debt had Portuguese covered bonds as one alternative. Spreads of Portuguese covered bonds thus traded as much as 200bp inside the Portuguese sovereign. As the sovereign rating was upgraded into investment grade again, Portuguese covered spreads moved back into positive territory.

> FIGURE 5: COVERED BOND VS. SOVEREIGN BOND RATINGS



Sources: Bloomberg, CréditAgricole CIB

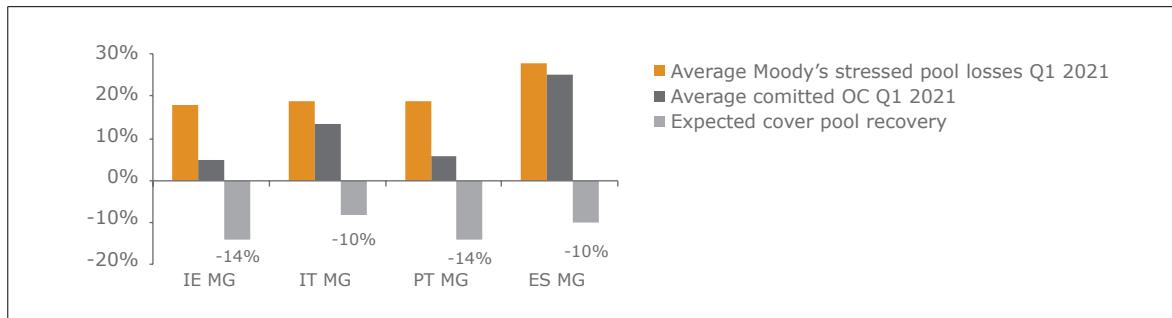
## Tail risk – expected recoveries

Especially for buy-and-hold investors, an argument to defend negative covered-sovereign bond spreads is the expectation that tail risks for covered bond investments are smaller than they are for sovereign debt. Especially during the sovereign crisis, long-term investors began to feel more comfortable with the collateralised claim of covered bonds than sovereign debt.

However, the validity of this statement does depend on the cover pool, the covered bond framework and the issuer itself. High quality residential mortgage backed covered bonds from a country with a strong framework that are issued by a systemically important bank will stand a much better chance than lower quality public sector backed covered bonds issued by a small issuer. It is also important to stress that the weaker a sovereign is the more relevant these tail-risk related considerations become. For stronger sovereigns, better liquidity and regulatory treatment are the main drivers for the spread to covered bonds.

It is hard to estimate cover pool recoveries based on issuer reporting. However, rating agencies such as Moody's publish the results of their own cash flow modelling of cover pool assets and liabilities. Moody's stressed pool losses are the loss the agency expects should a cover pool be wound down. One can use this number and apply it to a pool which is left with legal minimum OC to come up with an estimated recovery rate. For Italian mortgage cover pools for example the estimated loss is just below 10% if the bond was purchased at par (average committed OC of 14% and stressed pool losses of 19%).

> FIGURE 8: COMMITTED OC, MOODY'S STRESSED POOL LOSSES, AND REQUIRED SOVEREIGN HAIRCUT TO BE BETTER OFF WITH COVERED BONDS



Sources: Moody's, Crédit Agricole CIB

This estimated pool recovery figure can be used to either estimate cash prices below which a purchase should result in a positive return even if the bank and the covered bonds were to default. It can, however, also be used as a proxy for the required haircut on a sovereign bond that would make the covered bond the better option. In the Italian case, should a sovereign haircut on Italy be in excess of 10%, the expected recovery on the OBG would be higher, if not, sovereign debt would be the better option.

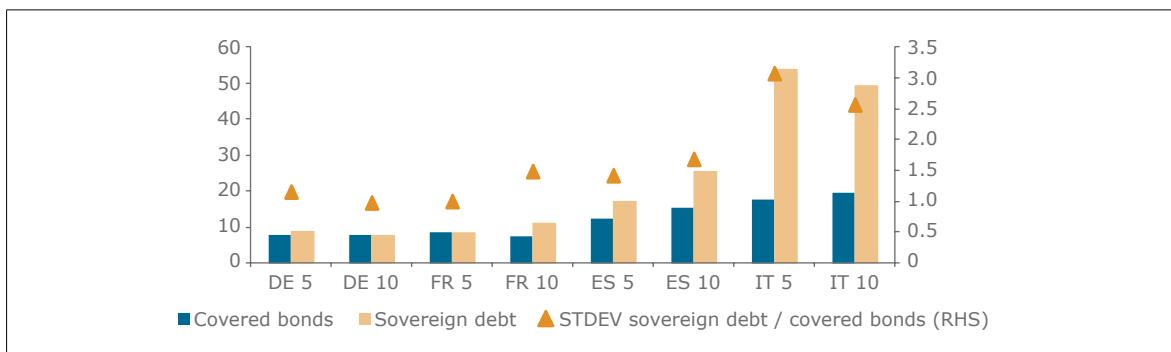
What this calculation does not take into account though is the probability that some banks can very well survive a sovereign debt restructuring and that, irrespective of potential pool recoveries, covered bonds could be the better choice. Countries need to maintain a basic level of banking services after all during and after a sovereign debt restructuring. National Bank of Greece is the best example for this.

Recoveries based investing took place above all at the height of the sovereign crisis when peripheral covered bonds were trading well below par. At the current prices, the investors who focussed on this have long moved on from covered bond markets. However, for long term investors that want to assess tail risks, the recovery assessment vs. sovereign debt can still make sense.

## Spread stability

A main argument pro covered bonds over the years their spread stability relative to virtually all other products and sectors. While even German Bunds at times experienced intra-day volatility of 20bp and more, covered bonds remained extremely stable. Looking at the average standard deviation of ASW spreads between 2015 and today shows that the covered bond volatility has been a fraction of their corresponding sovereign debt markets especially in countries such as Italy, Spain but also France.

> FIGURE 7: 2015-2020 STANDARD DEVIATION ASW SPREADS COVERED BOND VS. SOVEREIGN BOND (BP)



Source: Bloomberg, Crédit Agricole CIB

Spread volatility is less of a problem for long term buy and hold investors but certainly causes problems for asset managers valuing their funds' assets. It also causes problems for banks VAR calculations. While European banks do not (yet) have to hold capital for European sovereign debt, they do have to hold capital to cover the volatility of their trading assets. And the more volatile an asset is the more capital banks have to hold. Spread stability of covered bonds thus reduces the capital consumption difference to sovereign debt.

One of the reasons for this lagging of covered bonds is certainly the different investor base and less active trading in covered bonds. Buy and hold investors play a much more important role in covered bonds whereas trading accounts are more active in sovereign debt. This is a theme that pre-dates the Eurosystem purchases. However, the purchases have of course further reduced the remaining covered bond free-float have reduced trading volumes making it hard for investors to short bonds. It has at times needed new issuance to lead to a repricing of covered bond spreads.

## Regulatory treatment

Differences in regulatory treatment between covered bonds and other asset classes are described at length in the respective chapters, there is no need to repeat this here. When it comes to the difference to 0% risk weighted sovereign and SSA exposure, a bank treasurer owning 10% risk weighted covered bonds needs to factor in an extra 10% capital charge in the standardized approach as well as higher LCR haircuts. For a target ROE of 10% we are thus talking about roughly 8bp of extra capital cost while the higher LCR haircut requires more covered bond holdings to achieve the same LCR result and thus some extra funding and again some extra capital. Taken together, the combined effect for banks is typically just above 10bp. For covered bonds that are not repo eligible with central banks such as the ECB, banks typically factor in an extra element of liquidity cost vs sovereign / SSA debt.

Solvency II does have an even more pronounced capital related effect on covered bond spreads vs sovereign / SSA debt for insurance companies. However, given their much lower level of activity in covered bond markets in recent years, issuers have been able to price long-end new issues almost flat to shorter dated debt relying on bank treasuries and asset management accounts instead.

## **V. HOW DO INVESTORS MANEUVER BETWEEN THE PRODUCTS?**

### **Covered-senior**

We believe that one of the reasons for dislocations in spreads between unsecured and secured bank debt has been the limited overlap of senior unsecured and covered bond investors. Many investors still cannot directly play opportunities that arise between both asset classes. The main reasons for the limited overlap are in our view: (1) central banks and sovereign wealth funds are large buyers of covered bonds but not of senior unsecured debt, (2) banks are one of the biggest investor groups in covered bonds and regulatory provisions favour covered bonds, (3) asset managers and pension funds often have higher limits for covered bonds than for senior unsecured bank debt, and (4) both asset classes are usually bought for different dedicated portfolios. In addition, covered bonds are sometimes used to enhance the yield of sovereign bond portfolios without diluting the average rating, or added to genuine credit portfolios to improve the portfolio rating quality.

Anecdotal evidence from analysing order books over time, however, suggests that the overlap in the investor base has increased in recent years due to a higher participation of credit investors in new covered bond issues. We expect this trend to continue over the coming years and credit investors to account for a growing portion of covered bond order books going forward, not least because of the bail-in risk for European senior unsecured debt and the relative value opportunities this will create between these two asset classes.

Furthermore, in the current low-yield environment, spreads between covered bonds and senior unsecured paper are, to a large extent, driven by technicals such as the ECB purchase programme which maintain spreads often at a level below fundamental values.

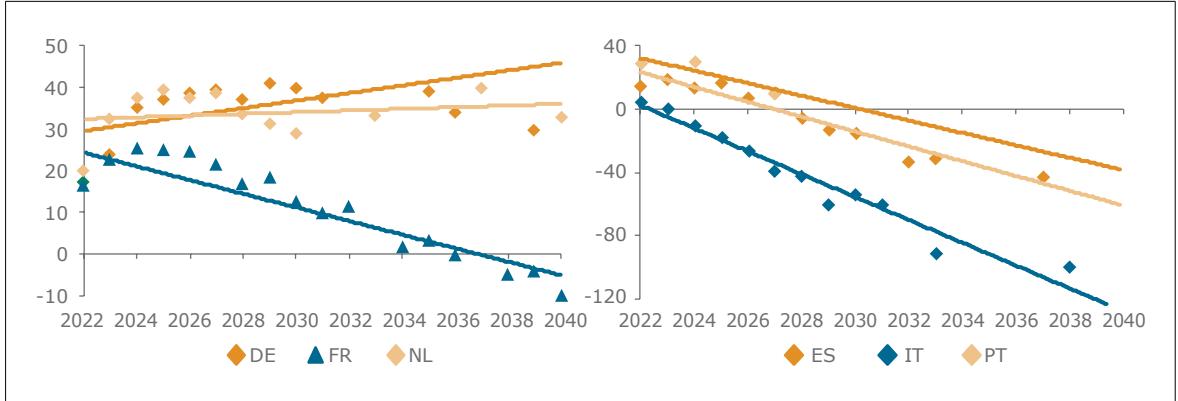
### **Covered-sovereign**

There is a material overlap in the investor bases between covered bonds and sovereign / SSA debt. After all, for bank treasuries, they are all LCR eligible assets and thus compete with each other with the difference in regulatory (higher capital charges and LCR haircuts), central bank treatment (higher repo haircuts and different purchase programme dynamics) and liquidity being main drivers. We mentioned above that we are talking about roughly 8bp of extra capital cost of covered bonds vs 0% risk weighted sovereign / SSA debt. The higher LCR haircut also requires more covered bond holdings to achieve the same LCR result and this in turn requires extra funding and again some extra capital. Taken together, the combined effect for banks is typically just above 10bp. At covered-sovereign / SSA spreads well above this, banks tend to go for covered bonds, at spreads inside this, they would typically prefer the more liquid sovereign / SSA exposure with the better regulatory treatment.

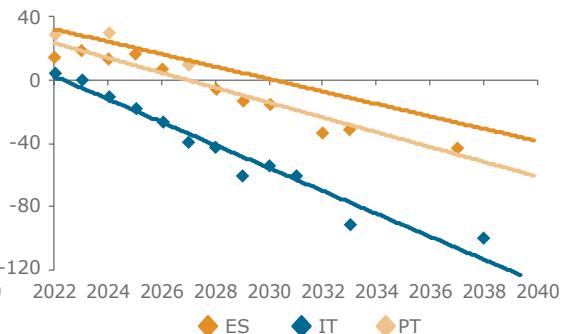
Given the need to rely on secondary markets for liquidity, there has been less overlap between covered bonds and sovereign / SSA markets in recent years for asset managers (AM). Unlike banks they cannot rely on central bank repo operations but need to outright sell after all. However, covered bonds are of course part of their aggregate portfolios for which they can serve as a low risk alternative offering a positive carry vs sovereign debt. There are also numerous externally managed LCR funds in countries such as Germany for which covered bonds are eligible investments in the same way they are for banks directly.

When comparing covered bonds to sovereign debt using a very simplified approach, on the one end there is the higher liquidity of sovereign debt and lower capital charges compared to covered bonds while on the other end, spread stability and potentially higher ratings and recoveries can speak in favour of covered bonds. The liquidity and capital charge arguments pro sovereign debt are valid across the curve. However while spread stability as well as recoveries are no major topics at the very short end, they become more relevant the longer a bond is. As a result, covered bond – sovereign bond spread curves typically slope downwards with countries such as Germany or the Netherlands being exceptions. After all, the 10Y Bund is being used as a very liquid flight to quality instrument leading to rather wide spreads of Pfandbriefe at the long end too.

> FIGURE 9: COVERED GOVIE SPREAD CURVES PER COUNTRY (BP)



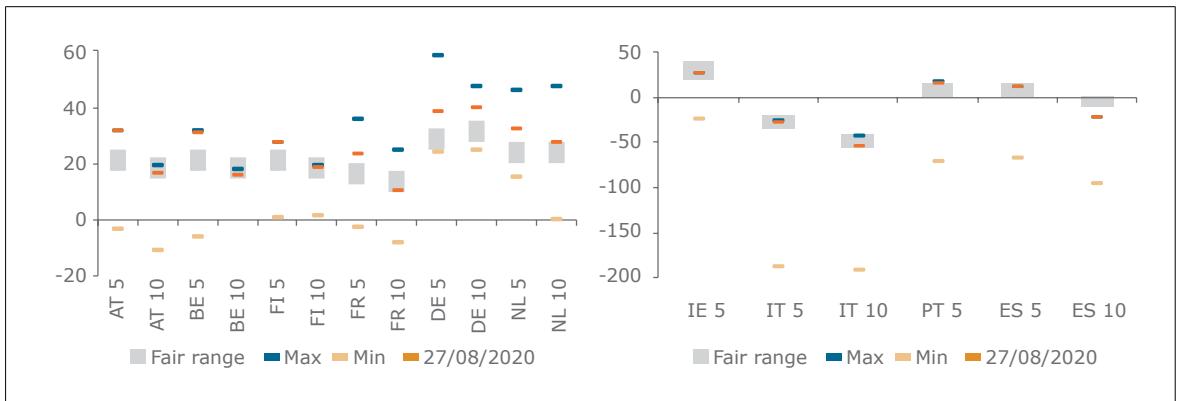
> FIGURE 10: COVERED GOVIE SPREAD CURVES PER COUNTRY (BP)



Sources: Bloomberg, Crédit Agricole CIB

Below we show our estimate fair value ranges between covered bond and sovereign debt by country.

> FIGURE 11: 5Y /10Y EUR COVERED BONDS VS. LOCAL SOVEREIGN DEBT (BP)



Sources: Bloomberg, Crédit Agricole CIB

## VI. WRAP UP

While there is a material overlap in the investor base between covered bonds and sovereign / SSA debt, this overlap is less pronounced for senior preferred debt. After all, covered bonds are LCR eligible assets that sit in the same bank portfolios as sovereign / SSA debt while for asset managers they can serve as higher yielding but still highly rated and stable alternatives in aggregate portfolios. With the ECB compressing spreads, reducing the free-float and being one of the driving forces behind a material drop in issuance, credit investors have focused further down the capital structure than pay much attention to covered bonds.

These ECB related technical factors that have dominated the covered market for some time have clearly impacted the factors we mentioned above that drive the relationship between covered bonds and the other asset classes. Little new issuance and on-going Eurosystem buying have compressed spreads and reduced the level of liquidity in covered bond markets thus adding an extra element of spread stability. At the same time, it has allowed issuance volumes from the likes of the EU to balloon without these higher volumes having an impact on SSA spreads that would have previously been the case.

Despite these distortions, the main elements that drive the spread relationship between covered bonds and sovereign / SSA debt on the one hand and senior debt on the other hand, have not gone away. They may be less visible these days but they will not lose their long-term relevance. In the same way, covered bonds will remain an important product for a wide range of investors. QE might have pushed some away from covered bonds. However, as we have seen over the past few years, the moment there is life in covered bond markets and bonds are priced attractively vs products such as sovereign / SSA debt or senior preferred, many investors are back.

## **2.4.2 USD, GBP & DOMESTIC CURRENCIES DENOMINATED COVERED BOND MARKETS**

By Frank Will, HSBC & Chairman of the ECBC EU Legislation Working Group and Frederik Kunze, Nord/LB

### **USD, GBP DENOMINATED COVERED BOND MARKETS**

In the years before the COVID-19 pandemic, the new issue volumes of USD- and GBP-denominated covered bonds have revived, underlining the strategic importance of non-EUR denominated covered bond markets. They represent attractive diversification opportunities from an issuer perspective, both in terms of investor base as well as in terms of different dynamics compared to the EUR-denominated market as detailed below. From an investor perspective, USD and GBP denominated covered bonds may also offer cross-currency arbitrage opportunities depending on the respective swap costs. However, in light of COVID-19 pandemic covered bond issuance in general and the supply volumes in USD and GBP in particular dropped considerably and have only started to gain momentum since mid-2021.

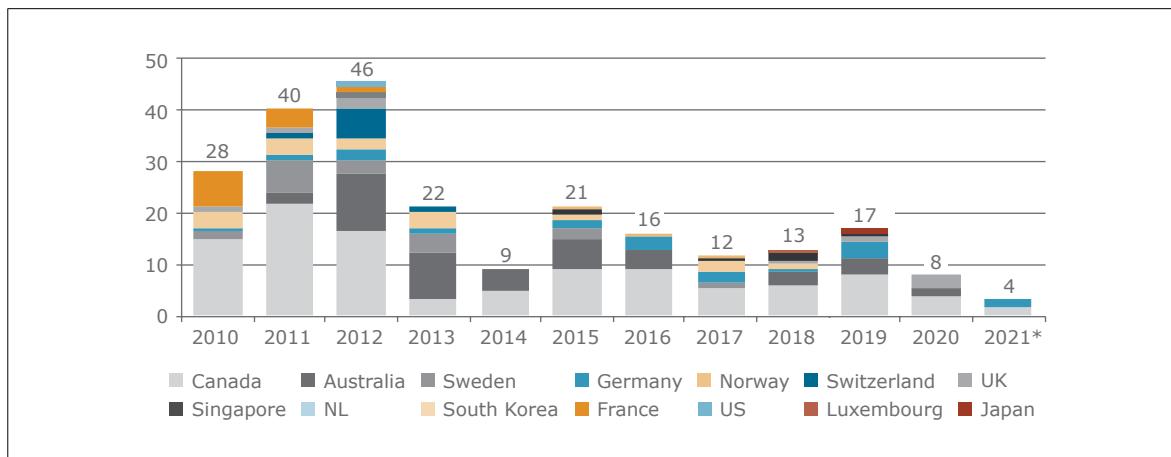
While the Euro remains the major funding currency of covered bond issuers, many issuers prefer a broader currency mix. The actual decision to use a certain currency for funding depends on various factors:

- > **Relative value considerations:** Relative value considerations play an important role in the decision for a certain currency. Particularly, non-Eurozone issuers tend to be more opportunistic in their choice of funding currency.
- > **Strong domestic currency market:** The Scandinavian issuers benefit from a strong domestic currency market, reducing their reliance on the Euro for funding. The same is true for the UK banks, although the covered bond investor base in the UK has been smaller than those in Denmark, Sweden or Norway.
- > **Investor diversification:** Besides the lowering of the funding costs, investor diversification is another important driver of non-EUR issuance as there is only limited overlap between the investors across the various currencies. In particular, banks from Australia, Canada, Norway and Sweden have been active issuers in the USD and GBP space in order to broaden their investor base. The USD market is also a more natural market for non-European issuers such as the new Asian issuers as many USD investors already have credit lines in place for these issuers.
- > **Less EUR issuance:** Another advantage of non-Euro issuance is that it reduces the supply in Euros, which should support the valuations of the outstanding Euro benchmarks of the particular issuer and might free up credit lines at investors.
- > **Impact of the central bank purchases:** The covered bond purchase programmes of the ECB has resulted in artificially low yields of CBPP3/PEPP-eligible covered bonds, making it less attractive for Eurozone issuers to tap the Sterling and USD market. This has resulted in a disproportional high primary market share of non-Eurozone issuers in these two currencies. The asset purchase programme of the Swedish central bank had a similar impact, shifting the balance for the Swedish covered bond issuers in favour of domestic currency issuance.
- > **Bank of England's measures:** The Funding for Lending Scheme (FLS) of the Bank of England triggered literally a stop in covered bond issuance by UK banks back in 2013. The impact of the Term Funding Scheme (TFS) in contrast was less detrimental and Sterling-denominated UK covered bond supply remained relatively strong. However, the Term Funding Scheme with additional incentives for SMEs (TFSME) which was introduced in mid-April 2020 has had a more dampening impact on the Sterling covered bond issuance by UK issuers.
- > **Natural hedging:** Issuance in non-domestic currencies can be used to hedge foreign-currency denominated assets in the cover pool without the need to swap currency risks. Several German issuers, for instance, have USD or GBP-denominated cover assets on their balance sheets and could hedge these exposures by issuing currency-matched covered bonds.

## USD-DENOMINATED COVERED BOND ISSUANCE

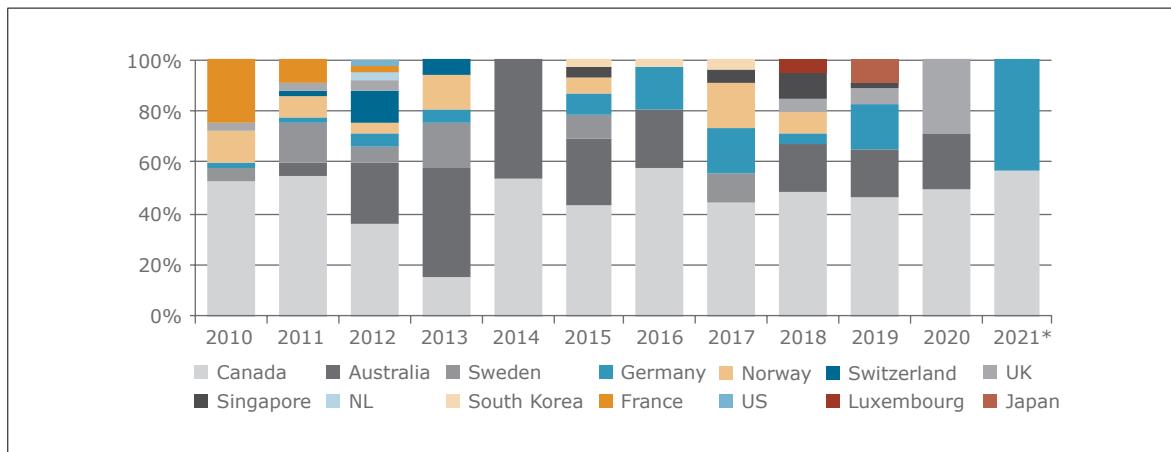
After a quiet 2014, the USD-denominated covered bond market revived in the following years with gross issuance more than doubling. This trend was driven largely by a favourable cross currency basis and, as such, was visible in other sectors like supranationals and agencies. Between 2016 and 2019 the USD denominated covered bond issuance was in a range of USD12-17bn before significantly dropping in light of the COVID-19 pandemic. In 2020, USD covered bond issuance amounted to only USD 8bn and in the first eight months of 2021, USD supply only added to USD 4bn.

> FIGURE 1: PUBLICLY PLACED USD-DENOMINATED COVERED BOND ISSUANCE



Source: Bloomberg, HSBC (\*until end-August 2021)

> FIGURE 2: USD-DENOMINATED BENCHMARK COVERED BONDS SUPPLY BY COUNTRY



Source: Bloomberg, HSBC (\*until end-August 2021)

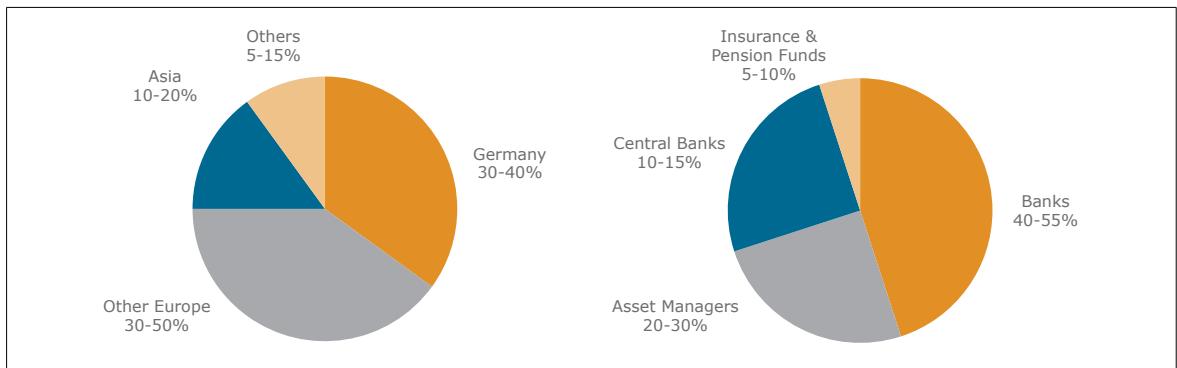
Several features of the USD covered bond market differentiate it from its EUR counterpart:

- > **High ratings:** USD issuance is dominated by Canada, Australia, Sweden and Norway, which happen to have among the highest covered bond ratings. The USD covered bond market tends to be therefore a '**AAA' market.** With few exceptions, only the strongest European banks have entered the market.
- > **Larger but shorter new issues:** USD covered bonds are typically large in terms of outstanding volumes, with few bonds being issued below the USD 1bn threshold. This is in contrast to the EUR market, where sub-EUR 1bn bonds have become more common over the last few years. Moreover, the maturity of USD covered bonds tends to be shorter than EUR covered bonds as the USD investors have a preference for shorter maturities. The ultra-low yield environment in the Eurozone with large parts of the covered bond spectrum being in negative yield territory has certainly also contributed to this trend.
- > **Issuance format:** USD covered bonds are mainly issued in the 144a format which means they can only be sold to Qualified Institutional Buyers under specific restrictions. Some covered bonds – in particular from Eurozone issuers – are issued under Reg S rather than the 144a format, which means that they can only be sold to offshore investors.
- > **Variations in regulatory treatment:** Covered bonds receive different regulatory treatment around the world, depending on the issuer's country of origin, the currencies and the rating. In the case of the Liquidity Coverage Ratio (LCR), covered bonds – including USD-denominated – benefit from a preferential treatment under the EU implementation of Basel's LCR as they qualify as Level 1, 2A and 2B assets. In contrast, covered bonds do not qualify for the LCR in the US and are restricted to Level 2A assets, in line with Basel's recommendation, in other countries such as Canada, Australia or Singapore. In terms of repo eligibility with central banks, the ECB has the broadest repo eligibility criteria for covered bonds, allowing the use of investment grade covered bonds from the European Economic Area and the G10 countries, followed by the Bank of England which is more restrictive than the ECB. This is in stark contrast to the US Fed which currently only accepts AAA-rated German Pfandbriefe. The central banks in Canada and Australia are also quite strict, focusing on their domestic covered bond market and currency.

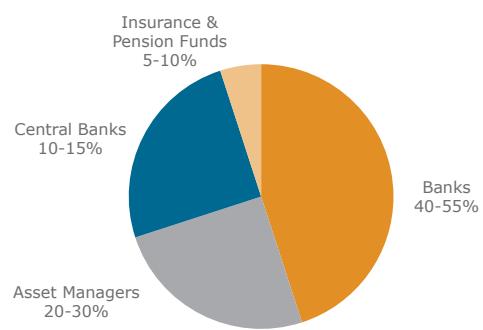
### **USD INVESTOR DEMAND**

Over the last few years, the importance of European investors has increased, overshadowing the US investors. On average, European investors account for 60-80% of the order books, while the share of North American investors tend to be in the range of 5-15%. However, the allocation data for the US often includes offshore US investors. Asian investors, mainly sovereign wealth funds and central banks, also play an important role, making up 10-20% of the order books.

> FIGURE 3: INVESTOR PARTICIPATION BY GEOGRAPHY



> FIGURE 4: INVESTOR PARTICIPATION BY TYPE



Source: Publicly available deal allocation statistics, HSBC (data as of end-August 2021)

## **GBP-DENOMINATED COVERED BOND MARKET**

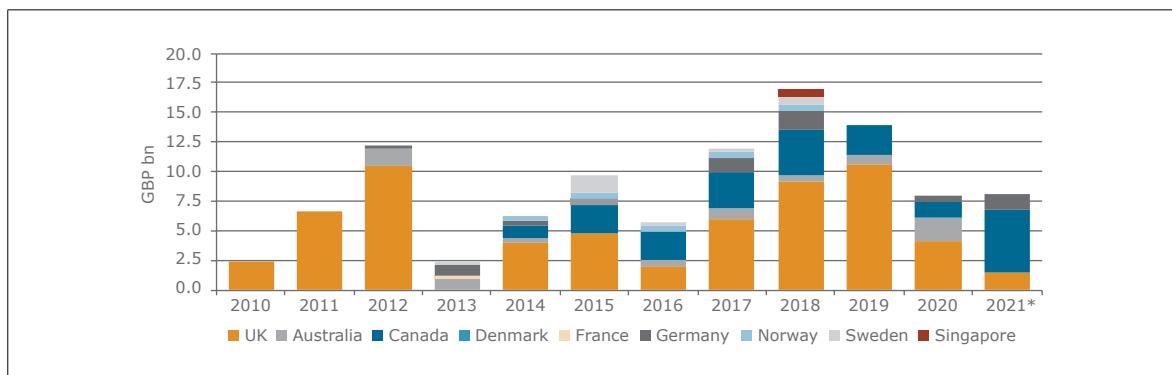
The GBP-denominated covered bond market is a small fraction of the total covered bond universe. However, with the entrance of new issuers from non-domestic jurisdictions such as Canada and Australia, the issuance size and volume is set to increase further in the coming years.

The primary market activity in this segment has been quite volatile over the last ten years. Back in 2008 (c. GBP 85bn) and 2009 (c. GBP 10bn) large volumes of Sterling-denominated covered bonds were issued that were not publicly placed in the market. Most of these issues were retained by the issuers at a time when the Bank of England provided funds under the Special Liquidity Scheme in response to the financial crisis. These retained covered bonds were used as collateral.

In 2012, publicly placed covered bond supply in Pound Sterling reached a record volume of about GBP 12bn, twice the volume of the previous year. The increase was driven by strong demand from insurance companies at the long end of the curve, as well as money market funds and bank treasuries at the short end. After the record volumes of 2012, the GBP covered bond primary market activity in 2013 dropped significantly due to the Funding for Lending Scheme (FLS) of the Bank of England, which triggered a complete halt of GBP covered bond supply by UK banks.

Since then the GBP covered bond market has recovered as both issuance by UK banks and non-Eurozone banks picked up. In 2018, Sterling covered bond supply reached a new record high of GBP 17bn and in 2019, almost GBP 14bn were issued. Interestingly, the Term Funding Scheme (TFS) of the Bank of England has not negatively impacted the issuance from UK houses. However, the Term Funding Scheme with additional incentives for SMEs (TFSME) which was introduced in mid-April 2020 in response to the COVID-19 pandemic has had a more dampening impact on the Sterling covered bond issuance by UK issuers. On top of that, the ECB purchase programmes probably also had a dampening impact on GBP denominated covered bond issuance by Eurozone issuers.

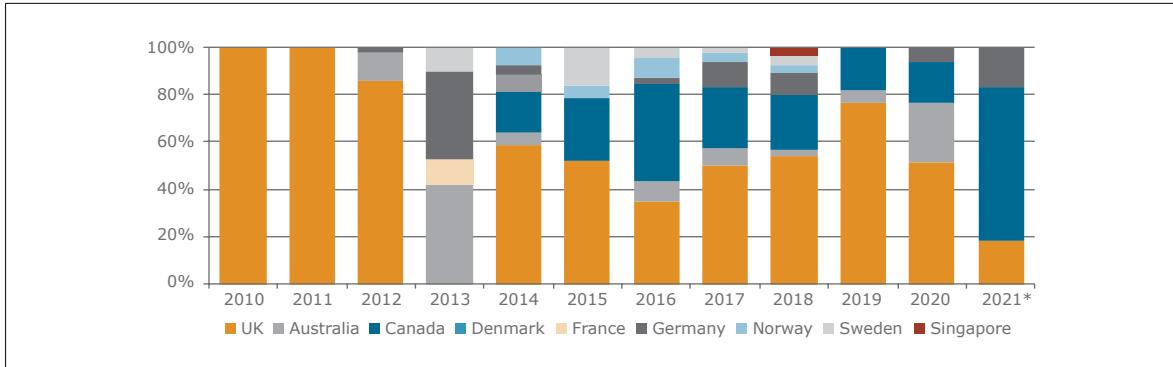
> FIGURE 5: PUBLICLY PLACED GBP-DENOMINATED COVERED BOND ISSUANCE



Source: Bloomberg, HSBC

The breakdown by country shows that up until 2012 the GBP-denominated covered bond market has been dominated by the UK-based issuers. However, over the last decade, non-domestic issuers from Australia, Germany, Scandinavia and Canada have also opted to issue in Sterling.

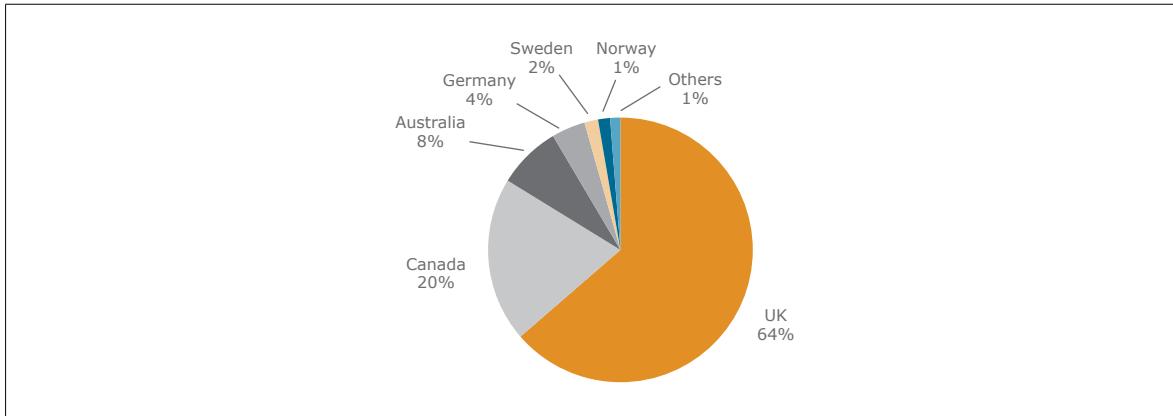
> FIGURE 6: GBP-DENOMINATED BENCHMARK COVERED BONDS SUPPLY BY COUNTRY



Source: Bloomberg, HSBC

The total outstanding volume of publicly placed Sterling covered bonds currently exceeds the GBP 70bn mark. Including non-publicly placed deals, the total outstanding volume actually peaked in 2009, following high issuance volumes of retained covered bonds at the height of the financial crisis, of which large parts have subsequently been redeemed or matured. Since then, the with relative strong issue activity before the COVID-19 pandemic has led to a considerable increase in the outstanding volume.

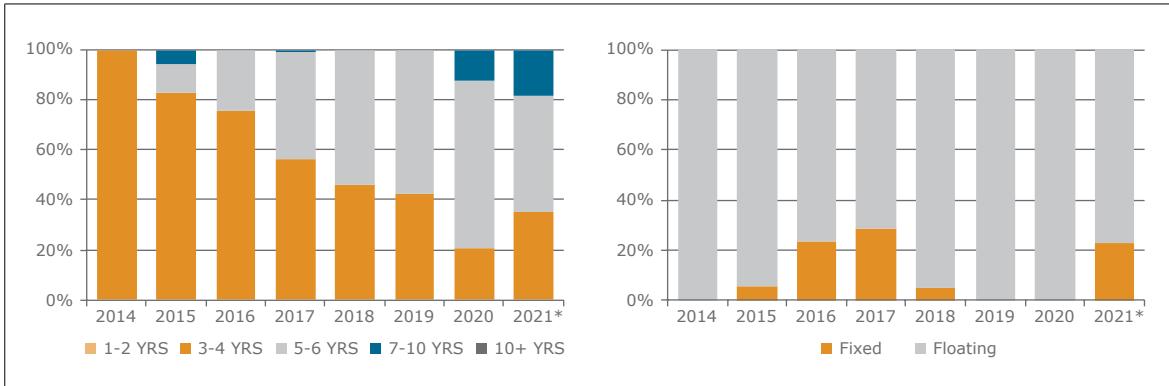
> FIGURE 7: OUTSTANDING VOLUME OF PUBLIC DEALS BY COUNTRY



Source: HSBC, Bloomberg, (data as of end-July 2020)

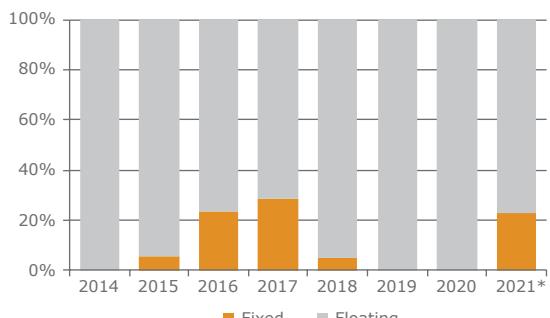
The figures below show the issuance patterns in the Sterling covered bond segment since 2010. Between 2012 and 2016 more than 80% of the deals had short maturities. However, over the last four years, the share of medium-term covered bonds has increased. In terms of coupons, floating-rate notes continue to be the preferred format.

> FIGURE 8: MATURITY BREAKDOWN OF NEW ISSUANCE



Source: Bloomberg, HSBC

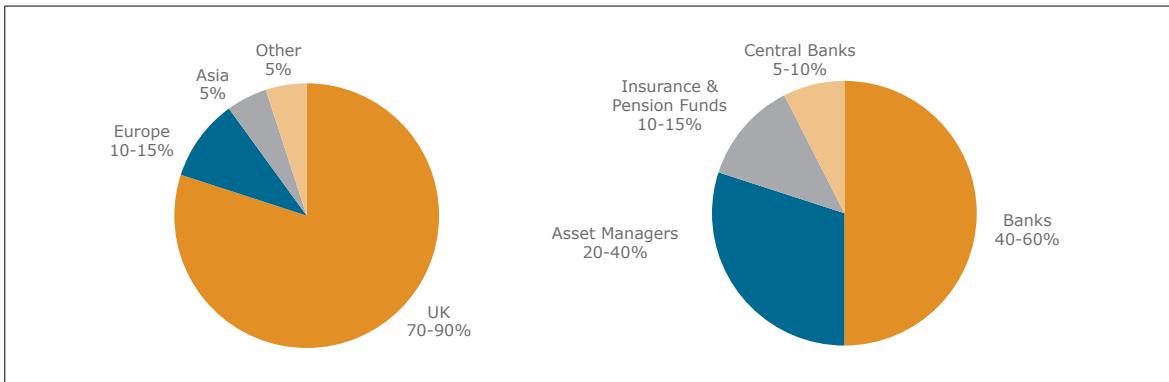
> FIGURE 9: BREAKDOWN BETWEEN FIXED AND FLOATING RATE COUPONS



### GBP INVESTOR DEMAND

Investors in Sterling-denominated covered bonds are largely based in the UK. Based on the deal allocation statistics of primary market transactions over the last few years about 70 to 90% of the deals have been placed with UK investors with the remainder spread across Europe and overseas. The breakdown of investor base by type varies considerably between floaters and fixed-coupon bonds. While asset managers have a large share in both, banks tend to buy less of fixed rate bonds but more floating rate notes (FRN). Insurance companies and pension funds account on average for 10-15% of the Sterling covered bond demand but tend to have a slightly higher share in long-dated fixed rate covered bonds. The central banks' share in recent years has been around the 10% mark.

> FIGURE 10: INVESTOR PARTICIPATION BY GEOGRAPHY



Source: Publicly available deal allocation statistics, HSBC (data as of end-August 2021)

## **MARKET OUTLOOK FOR USD AND GBP ISSUANCE**

Covered bond issuance in USD and GBP should continue to play an important role over the coming years. As we have seen in the past, relative value consideration by the issuer and particularly cross-currency basis swap movements are important drivers of non-EUR covered bond issuance. However, the relentless covered bond purchases by the ECB over the last few years means it is less attractive for Eurozone issuers to issue in non-EUR currencies.

Sterling supply should continue to be driven primarily by domestic issuers. The Term Funding Scheme (TFSME) of the Bank of England had a negative impact on the covered bond supply volumes from UK issuers but the scheme's drawdown window is scheduled to close by the end of October 2021. Non-domestic banks tend to be more opportunistic and focus on the cross-currency basis swap development (unless of course if they have GBP denominated assets in the pool).

In the USD market, we expect Canadian and Scandinavian issuers to remain the most active players. Moreover, the covered bond issuers from Singapore, Korea and Japan will probably also fund a certain portion of the covered bond funding needs in USD.

### **Excursus: Nordic Covered Bond Market**

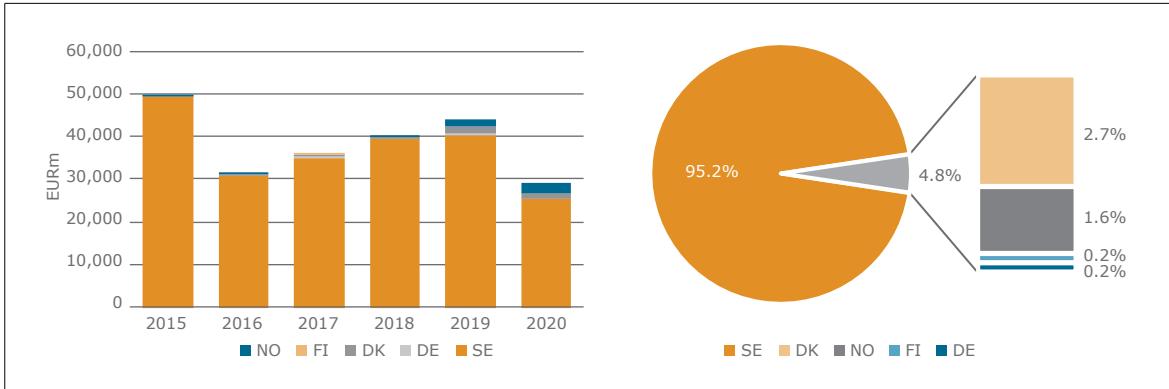
According to Bloomberg data, the three Scandinavian currencies DKK, NOK and SEK are among the five most widely used currencies in the global covered bond market, along with the EUR and CHF. This is due in particular to the national importance of the respective covered bond markets in the Nordic countries, while the USD in particular, but also GBP, is partly used as an issuing currency by non-domestic investors. While the domestic share of USD deals was 0% at the end of May 2021, it was 62.9% for GBP deals. Looking at the Nordic market, quotas of 87.9% and 95.1% can be determined for Norway and Sweden. In this context, Denmark represents the counterpart to the USD market, as 100% of the outstanding DKK deals were issued by Danish issuers.

### **SEK-denominated Covered Bond Market**

The market for SEK-denominated covered bonds is largely dominated by domestic, i.e. Swedish, issuers. This is also suggested by the data on issuing behaviour over the past six years. It can be noted that in the past two years in particular, there have also been a small number of issues from other Scandinavian countries. Danish issuers accounted for 3.5% of the SEK volume in 2019, and even 4.2% in 2020. However, Norway is another jurisdiction where SEK deals have been used in the past. At around EUR 2.4bn, 2020 marked the year in which the highest SEK volume was issued outside Sweden in the recent past. In 2020, the volume of SEK-covered bonds issued from Sweden amounted to 86.7%. Smaller volumes of SEK deals have also been issued from Finland and Germany (currently only one institution has outstanding SEK transactions) in the last six years. The Finnish transactions are issued by an institution from the Åland region, which is not only geographically but also historically and culturally closely linked to Sweden. Overall, despite the few non-domestic issues, the market for covered bonds in SEK remains dominated by domestic institutions. The Swedish share is around 95% at the end of May 2021. Accordingly, the investor base is also likely to come from the Swedish-speaking region and foreign issues are likely to be targeted at this domestic investor base.

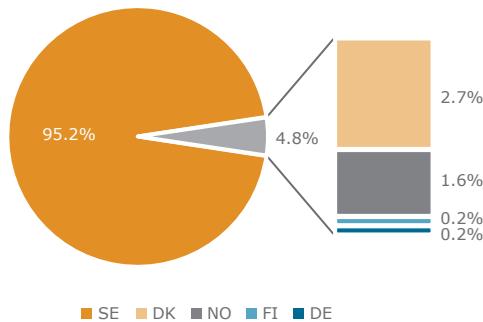
In the context of the Corona pandemic, the Swedish central bank has also started buying covered bonds in analogy to the European Central Bank. The Riksbank intended to purchase covered bonds with a volume of SEK 435bn (around EUR 43bn) by the end of 2021. Covered bonds were purchased for the first time at the end of March 2020. SEK issues that were issued by a Swedish credit institution and have a remaining term of more than one year are suitable. As at 3 September 2021, SEK 368bn had already been purchased, which is around 85% of the planned volume. In addition, the Riksbank also accepts covered bonds as collateral in transactions with the central bank. These may also be retained covered bonds.

&gt; FIGURE 12: SEK ISSUANCE VOLUMES BY YEAR



Source: ?

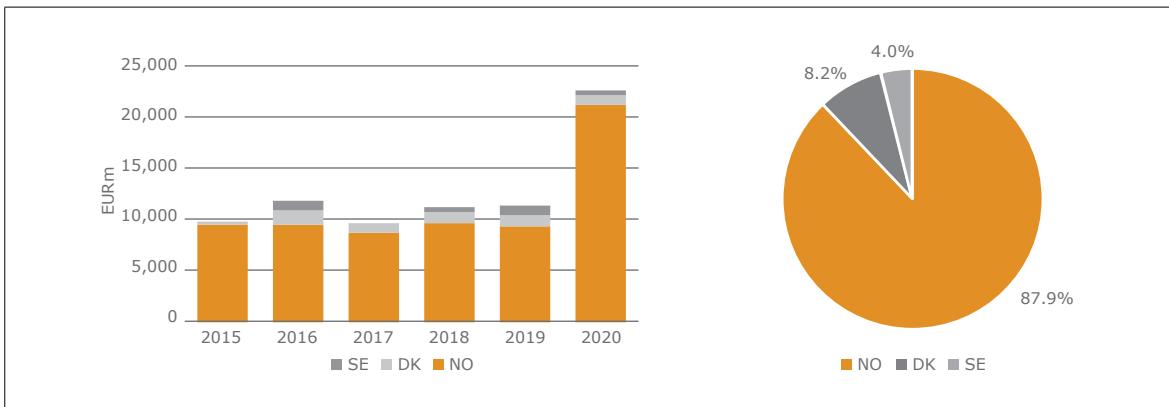
&gt; FIGURE 13: SEK OUTSTANDING VOLUME BY COUNTRY



### NOK-denominated Covered Bond Market

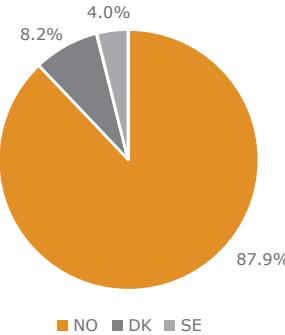
Just like the SEK covered bond market, the NOK covered bond segment is dominated by domestic issuers. At the end of May 2021, domestic institutions accounted for around 88% of the volume. In addition to institutions from Norway, issuers from other Scandinavian countries are also active in the NOK covered bond market. Unlike in the SEK market, however, these are only the two non-euro countries Denmark and Sweden. Issuers from the euro area have not been active in this market since 2015. With the exception of 2020, the issue volumes have been at a similar level in the past years. The equivalent of around EUR 9-12bn of bonds were placed on the market annually. In 2020, however, the volume doubled compared to the previous year. In terms of the domestic share of NOK deals, 2016 and 2019 were the years with the lowest share in the recent past, at around 80%. In 2020, on the other hand, NOK issues were again increasingly issued from Norway. Covered bonds are also accepted as collateral in central bank transactions in Norway. Assets in domestic currency are not subject to an additional haircut, which can make it advantageous for domestic investors to deliver NOK-covered bonds as collateral. However, unlike the Swedish Riksbank and the ECB, Norges Bank did not explicitly purchase covered bonds during the Corona pandemic.

&gt; FIGURE 14: NOK ISSUANCE VOLUMES BY YEAR



Source: ?

&gt; FIGURE 15: NOK OUTSTANDING VOLUME BY COUNTRY



While the market for DKK-Covered bonds is provided entirely by domestic issuers, the other Scandinavian non-euro countries Sweden and Denmark are also active in the market for NOK-covered bonds. For the SEK market, there are also issues from Finland and Germany, albeit only to a small extent. Overall, the Scandinavian covered bond market for bonds issued in kroner is likely to concentrate more on domestic or Scandinavian investors. Euro investors, on the other hand, are addressed through the regular issuance of EUR-denominated bonds. Often the Scandinavian institutions have subsidiaries in the other countries or issue from several cover pools that serve to refinance the respective national business in Scandinavia.



## CHAPTER 3 - THE ISSUER'S PERSPECTIVE



### **3.1 ARMENIA**

By Eleonora Mkrtchyan, Central Bank of Armenia and Edmond Vardumyan, National Mortgage Company RCO

#### **I. FRAMEWORK**

Covered bonds are issued in Armenia according to the Law on Covered Mortgage Bonds adopted in 2008 and majorly reformed in 2018 with expert support from KfW, modernizing the framework in line with international best practices.

A major change that the reform introduced was the regulation of centralized covered bond issuance. The reforms also updated and redefined the list of assets that are eligible for the pool. The law clearly defines the assets that can be used as substitute assets and what the maximum percentage of such assets in the whole pool may be.

The reform aimed at clarifying the asset valuation and revaluation processes as well. Importantly, it introduced rules for the case of a significant collateral value decline. Earlier, a reform on mortgage consumer protection had introduced early repayment rules for mortgage loans that permit yield maintenance indemnities and thus improved the matching of cover assets and liabilities. The reform also established a public cover asset register and refined the functions of the cover pool controller.

Most importantly, the reform ensured the ring-fencing of assets in case of insolvency of issuer (in centralized scenario, that of participants as well) by changing the Law on Bankruptcy of Banks, Credit Organizations, Investment Companies, Investment Fund Managers and Insurance Companies.

#### **II. STRUCTURE OF THE ISSUER**

According to the law, the issuer can be either a bank or a credit organization. Those types of organizations are subject to license requirement and supervision, with capital requirement, liquidity requirement etc. in place. Those institutions are regulated and supervised by the Central Bank of Armenia.

There are two scenarios of covered bond issues: a standard one and a centralized one.

In the standard one the issuer of the covered bonds, an individual bank or credit organization, uses its own assets to create a cover pool and issue the bonds.

In centralized issuance scenario the issuer may use other banks' or credit organizations' (called "participants") mortgage assets as collateral in order to create a cover pool and issue the covered bonds. The cover pool of a centralized issuer consists of refinancing loans to the participants. The mortgage loans posted by the participants to back the refinancing loans must fulfil all the requirements just as if the participants were individual covered bond issuers. The law provides for segregation of assets in case of participant's insolvency and thus the respective pool of mortgage loans backing the refinancing loans are moved from participant's balance sheet to that of central issuer (or to other issuer, including participant as the case may be) without entering the insolvency process.

#### **III. COVER ASSETS**

##### **Main assets**

The assets that are eligible for covered assets pool are mortgages that comply with the following:

- 1) the real estate subject to mortgage is located on the territory of the Republic of Armenia, or the security of the mortgage is a right for construction of real estate on the territory of the Republic of Armenia;
- 2) the mortgage represents a first priority claim on the underlying asset;
- 3) the amount of the loan at the time of inclusion into the pool does not exceed 70% of the estimated market value of the collateral (real estate);

- 4) The mortgage contract includes early repayment clause in accordance with new Law on Housing Mortgage Credit.

### **Substitute assets**

Where cover assets are to be removed from the asset pool prior to full fulfilment of obligations on mortgage bonds on grounds listed below, the issuer will have the right to include substitute assets in the pool. However, those assets should not at any time exceed 10% of all the assets. The law clearly defines what those substitute assets can be: cash, bonds issued by or guaranteed for timely payment by the Republic of Armenia, and other assets defined by normative acts of the Central Bank of Armenia.

### **Limitations**

In any case the law provides for some limitations for derivative instruments which may be used in the asset pool.

Only the following derivatives may be used:

- 1) the derivative serves to reduce asset-liability management risks between cover assets and covered bonds issued;
- 2) the derivative does not require the cover pool estate to post maintenance margin and observe margin calls;
- 3) upon insolvency of the issuer the derivative excludes netting for the benefit of the derivative counterparty with other claims against the issuer or other derivatives in the cover;
- 4) upon insolvency of the issuer the derivative is not terminated.

### **Removing assets from the asset pool**

The asset is removed from the asset pool when the asset is terminated (including early repayment of loan, amortization etc.), the asset has been categorized as non-standard, doubtful or loss according to Armenian legislation, or the asset does not meet the eligibility requirements of the law on covered bonds. The assets must be substituted by other eligible assets (main or substitute). The assets may be removed from the registry without the obligation to substitute them by other assets only when the removal does not amount to breach of adequacy of cover requirement and the remaining cover assets comply with the requirement of the law on covered bonds.

## **IV. VALUATION AND LTV CRITERIA**

### **Valuation and revaluation**

The valuation of real estate is to be performed by a person who:

- > is licenced for real estate valuation in accordance with Armenian legislation
- > has at least 2 years of experience
- > has not been involved in the process of loan provision
- > has a professional liability risk insurance for at least the amount equal to minimum wage

The Central Bank may by its normative acts introduce additional rules and methods for valuation of real estate for the purposes of including them into the cover assets pool. In case the valuation may be performed in more than one way and those provide for different results, the minimum among the results will be taken into account.

The real estate is to be revaluated at least once in three years, and if the real estate has a commercial purpose – once a year.

Besides, the real estate has to be revaluated, by a licensed real estate appraiser or according to real estate price index calculated in the manner prescribed by the Central Bank of Armenia, if the real estate prices have substantially fallen (i.e. more than 10%) in the market.

## **Loan to Value**

The amount of the loan at the time of inclusion into the pool should not exceed 70% of the estimated market value of the collateral (real estate).

If the amount of a mortgage loan registered in the cover pool exceeds 85% of current mortgage lending value of collateral (real estate), the issuer may either post additional assets for the excess of 85% as additional collateral or reduce the loan amount funded by the cover to 85%. In case of posting additional assets, the cash flows derived from these assets do not accrue to the bondholders except for the case of the insolvency of the issuer.

## **V. ASSET – LIABILITY MANAGEMENT**

Covered bonds will be backed by dynamic mortgage pools and hence covered bond programs will be subject to asset-liability mismatches. A number of asset-liability management rules have been introduced to mitigate the associated risks and improve risk transparency.

The amount of outstanding liabilities on mortgage bonds must be backed by adequate cover:

- 1) the total nominal value of assets within cover pool must be at least equal to the total nominal value of mortgage bonds;
- 2) the receivable amounts on cover assets must be at least equal to the payable amounts against mortgage bonds;
- 3) the net present value of cover assets must at any moment exceed at least by 1% the net present value of all liabilities on mortgage bonds.

The Central Bank has determined stress testing methodology for the issuers. For the stress test the yield curve is shifted upwards and downwards based on the volatility of interest rates for selected maturities, but not less than 2%. Stress test horizon is 25 days and the confidence level is defined to be 99%.

The bonds issued should be denominated in the currency in which the cover assets are denominated. The assets comprising a single asset pool should be denominated in the same currency.

The issuer of covered bonds is required to maintain a schedule of cash flows, both actual and expected, on the assets included in the cover pool, which, *inter alia*, includes information on early repayments and overdue payments. The cash flow information shown in the schedule must allow identifying assets, including mortgages, substitute assets and derivatives from which those cash flows have been received.

The schedule must also include projections regarding future unanticipated payments, namely for early repayments of loans, or early performance of obligations arising out of bonds or derivative instruments.

The outstanding liabilities on covered bonds must be at any moment backed by adequate cover on a present value basis after stress-testing, and the expected duration gap, i.e. expected aggregate duration of assets minus expected aggregate duration of liabilities, must not be lower than 3 months to avoid negative maturity transformation risk.

## **VI. TRANSPARENCY**

### **The registry**

The Central Bank maintains the registry of the cover assets of the covered bond program. The registry maintains information on all the assets comprised in the cover pool, namely:

- > for land and building or for the permission for construction- Cadastre number, the duration for the permission for construction, its number and date, land/building address, limitation on use of land, if any;
- > for mortgage loans - loan agreement number and date, loan register code, loan ID, purpose of the loan, loan amount, loan currency, repayment schedule and maturity date, annual interest rate, secured asset (real estate) value, borrower identification;

- > for covered refinancing loans - information as referred to in point above, in addition segregation rights for the benefit of central issuer in case of centralized issue;
- > for derivatives - type of derivatives, nominal amount for each type of contract, intrinsic value of each type of derivatives, market value/net present value of derivatives, as well as information on the transaction counterparty;
- > other information defined by the Central Bank normative legal acts.

All parties concerned may have an access to information, contained in the cover register, on collateralization of assets.

Access to other information contained in the cover register is restricted to the Central Bank, to the Cover Pool controller, the issuer and the Mortgage Administrator.

Information constituting banking secrecy, contained in the cover register, can only be disclosed in the manner prescribed by law.

The control of the registry is performed by the controller of the pool. The controller must give his approval in order for the asset to be registered in the pool. Registration of asset without such approval is void.

#### **Information by the issuer**

The issuer must prepare, file to the Central Bank and place on its website monthly statements on issuance of mortgage bonds.

Monthly statements must include information on loans comprising the asset pool and information on the real estate, which is the secured asset for those loans.

In the centralized issuance mode, the monthly statements must in addition provide information on the refinancing loans.

Monthly statements must contain the following aggregate information:

1) information about real estate collateral:

- > Property type
- > Property values
- > Purpose of use
- > Property location

2) Information about assets:

- > Cover assets breakdown by nominal amount, loan amount to property value ratio, maturity, expected duration, seasoning, coupon, interest rate reference rate for floating rate loans, region, purpose of loan, and type of collateral
- > Number and amount of cover assets fully and partially repaid during the reporting period.
- > Number and amount of substituted assets during the reporting period
- > Reason of substitution by number and amount of assets during the reporting period
- > Loans with higher than 85% loan amount in the cover to property value ratio at the end of the reporting period, which were not substituted. Size of the corresponding cash collateral account
- > Number and amount of assets added to cover pool during the reporting period
- > Net present value of assets at the end of the reporting period

- > Change in net present value of assets from the last reporting period

3) Information about Derivatives:

- > Types of derivatives contracts
- > Nominal amount of each type of contract at the end of the reporting period
- > Intrinsic value of each type of derivatives at the end of the reporting period
- > Change in intrinsic value of derivative portfolio from the last reporting period
- > Change in net present value of derivatives from the last reporting period

4) Information about Liabilities

- > Covered bond breakdown by maturity or first call date for bonds with embedded options, type of covered mortgage bond issued (fixed or floating), coupon, and duration
- > Net present value of covered bonds

5) Information about assets & liabilities management

- > Nominal coverage test, yield coverage test, duration gap, net present value ratio of assets and liabilities

6) Other information defined by the Central Bank's normative legal acts

The participants must also provide loan-by-loan information on historic and scheduled cash flows as well as other information to the centralized issuer enabling it to fulfil its duties defined by law.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

### **1. Controller**

The law provides for the notion of controller of the asset pool and his functions.

#### **Functions**

The controller of the asset pool is the person whose activity is aimed at protecting the bondholders' rights. He imposes control over the cover register and the adequacy of cover assets to liabilities on mortgage bonds, ensuring the bonds are at all times covered adequately, assets are able to be identified and segregated.

The controller checks the compliance with eligibility requirements of the asset before including it into asset pool. He analyses the real estate valuation reports and may demand that only a part of value of the real estate be included in the asset pool.

As soon as a derivative instrument is registered in the registry, the controller informs all the counterparties of the issuer that have signed a derivative instrument with him.

The controller is also responsible for informing the Central Bank about breaches made by the issuer.

The controller inter alia follows the real estate market prices and when notices a substantial (i.e. more than 10%) fall, requires the issuer to reevaluate the real estate comprised in asset pool.

The law obliges the controller to act in the best interests of the bondholders.

#### **Access to information**

The law provides for the necessary access to information by controller. For instance, the issuer is obliged to monthly provide the schedule of cash flows to the controller. The issuer is also obliged to form an expectation of the aggregate duration of assets and liabilities and report the expected aggregate duration gap to the Cover Pool controller. Concerning the requirement for expected aggregate duration of assets exceeding that of liabilities by 3 months, the issuer is obliged to report on it to the controller at least weekly.

The controller may at any time check all the documents concerning the covered bonds and asset pool maintained by the issuer.

Upon the request by the controller the issuer is obliged to provide information on the payments made on loans, as well as any change concerning the assets that might be of interest for the bond-holders.

#### **Controller requirements and appointment**

The controller is appointed by the issuer. Every issuer must have a controller. The controller may control multiple asset pools of the same issuer.

The law provides for clear eligibility criteria for the controller, to insure the person is bona fide and that there is no conflict of interest.

The Central Bank is to establish the cover pool controller's evaluation procedure and professional adequacy criteria.

#### **Supervision of controller**

The controller is supervised by the Central Bank of the Republic of Armenia.

#### **2. Central Bank supervision**

The Central Bank of Armenia is the megaregulator of the financial sector in the Republic of Armenia, which means CBA is the authority for regulation and supervision of the whole financial sector, including banks and credit organizations.

The law on covered bonds includes special provisions empowering the Central Bank to supervise banks and credit organizations in the context of covered bond issuance.

Besides the issuers, the Central Bank supervises the controllers as well.

The Central Bank may impose sanctions on issuers and/or its management if:

- 1) The information contained in the registry is incorrect or inconsistent;
- 2) The adequacy of cover assets or their eligibility requirements were violated;
- 3) norms, deadlines and public disclosure procedures on reports were violated, and/or the reports contained untrue or inconsistent information;
- 4) Issuer did not disclose information subject to disclosure by law on covered bonds;
- 5) Issuer failed to fulfil an assignment provided by the Central Bank in a manner established the law on covered bonds;
- 6) provisions of the law on covered bonds, other normative legal acts on its basis and internal statutory acts of Issuer were violated.

Upon discovering such violations, the Central Bank of Armenia may impose warning and order (to cease the violation, to recover etc.), fine (may not exceed 1% of the nominal capital of the issuer), revocation of Administrator's license.

#### **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The law provides that the issuer may not dispose of the cover assets, except in cases of substituting assets in cases provided by the law. The controller controls that each of the assets may be identified at all times and ensure it can be segregated in case of insolvency of issuer (or a participant, in case of centralized issue).

In case of insolvency or ceasing of license of the issuer, the Central bank appoints a duly qualified mortgage administrator to manage the covered assets.

The mortgage administrator has a fiduciary duty towards the bondholders and is obliged to act in their best interests.

From the moment of ceasing of the license or insolvency decision, the administrator must ensure that all the payment received in connection with covered assets are segregated from issuer's other assets and are paid to a special account opened for these purposes.

The administrator may cease the payments to bondholders or participants for up to three months. In the interests of bondholders, the Central Bank may extend this period for another three months.

In the centralized issuer case, at the time of registration of the refinancing loan by the central issuer in the registry, the first-preference right to the segregated assets in case of participant's insolvency is registered as well. As soon as the participant is insolvent, those assets are segregated and may either be registered on central issuer's name or, by central issuer's consent to another issuer.

The bondholders retain the claim towards the refinancing loans and have the first-preference rights for:

- > refinancing loans included in the cover pool and any cash flow deriving from those loans;
- > and the mortgage loans which are in the balance sheet of the participant organization and their underlying secured assets (real estate).

The assets included in the centralized issuer's cover pool and their cash flows may be disposed of solely to satisfy the claims of the bondholders and no other creditor of the centralized issuer will have any claims over the assets included in the cover pool and their cash flows until all the claims by bondholders are satisfied. After satisfaction of all the claims by the bondholders, the remaining assets, if any, are returned to the insolvency estate of the insolvent organization for other creditors' claims.

The bondholders are paid on pari passu basis. If the assets comprised in the asset pool are not sufficient to satisfy the claims of bondholders, the latter become unsecured creditors for the purposes of insolvency proceedings for the remaining, unsatisfied part of their claims.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Armenia is not member of the European Union and is developing its own risk-weighting regime for covered bonds.

There is currently no special regulation for the risk-weighting for covered bonds. The risk weight for covered bonds corresponds to the standard rules. The assets get 100% risk-weight in case the assets are denominated in AMD and 150% risk-weight if they are denominated in foreign currency.



### **3.2 AUSTRALIA**

By Chris Dalton and Robert Gallimore, Australian Securitisation Forum

#### **I. FRAMEWORK**

The legal framework is principally contractual, with a statutory overlay enshrined in the Australian Banking Act (Cth) 1959 (Banking Act). The Banking Act contains certain minimum requirements for a covered bond programme (which are discussed in greater detail below) including requirements as to the assets eligible for inclusion in the cover pool, the appointment of a cover pool monitor, the requisite qualifications for a cover pool monitor, minimum overcollateralisation requirements and a cap on issuance. The Banking Act also empowers the Australian bank regulator, the Australian Prudential Regulation Authority (APRA), with certain powers including the power to determine Prudential Standards in relation to covered bonds.

#### **II. STRUCTURE OF THE ISSUER**

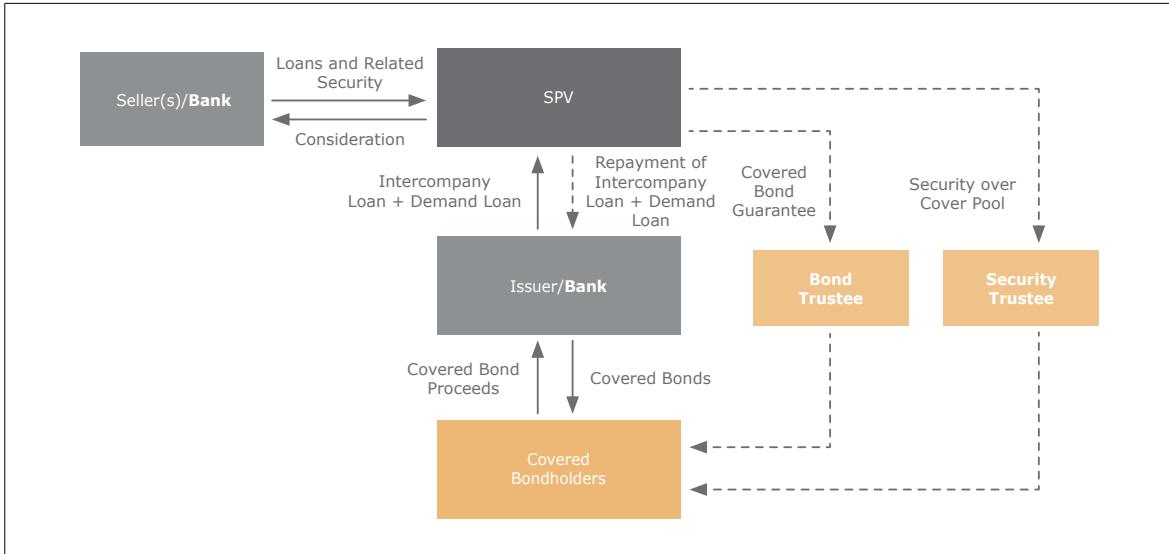
Australian banks, referred to under the Banking Act as "authorised deposit-taking institutions" or "ADIs", are the issuers of covered bonds; not SPVs or any other entity. However, a covered bond special purpose vehicle (the Covered Bond Guarantor) is established which holds the cover pool assets acquired by a true sale from the issuer. The Covered Bond Guarantor is in the form of a trust. It provides a guarantee over the issuer's obligations in respect of issued covered bonds, which guarantee is secured by the granting of a security interest over the cover pool assets in favour of a security trustee.

The guarantee will be called upon if an event of default in respect of the issuer were to occur. At such time, the Covered Bond Guarantor will be required to pay interest and principal on the covered bonds in accordance with the original payment schedule and payments under the covered bonds will not be accelerated. In addition, at such time, the bond trustee (on behalf of the covered bondholders) will make a claim, as an unsecured creditor, against the insolvency estate of the issuer bank. Any amount recovered against the insolvency estate of the issuer bank will be paid to the Covered Bond Guarantor to be held as additional collateral in the cover pool and to be used to make payments under the guarantee.

If an event of default were to occur in respect of the Covered Bond Guarantor, payments under the covered bonds would then be accelerated and become immediately due and payable.

Under the Banking Act, an issuer bank must not issue covered bonds if the value of the assets in the cover pool exceeds 8% of the issuer bank's assets in Australia. Further, if the issuer bank exceeds the 8% cap on issuance in breach of the Banking Act, it will also attract a deduction from its regulatory capital base equal to the value that exceeds 8%.

> FIGURE 1: STRUCTURE



Source: Australian Securitisation Forum

### III. COVER ASSETS

Section 31<sup>1</sup> of the Banking Act sets out the assets that can be included in the cover pool. These are:

- an at call deposit held with an ADI and convertible into cash within 2 business days;
- a bank accepted bill or certificate of deposit that:
  - matures within 100 days; and
  - is eligible for repurchase transactions with the Reserve Bank; and
  - was not issued by the ADI that issued the covered bonds secured by the assets in the cover pool;
- a bond, note, debenture or other instrument issued or guaranteed by the Commonwealth, a State or a Territory;
- a loan secured by a mortgage, charge or other security interest over residential property in Australia;
- a loan secured by a mortgage, charge or other security interest over commercial property in Australia;
- a mortgage insurance policy or other asset related to a loan covered by paragraph (d) or (e);
- a contractual right relating to the holding or management of another asset in the cover pool;
- a derivative held for one or more of the following purposes:
  - to protect the value of another asset in the cover pool;
  - to hedge risks in relation to another asset in the cover pool;
  - to hedge risks in relation to liabilities secured by the assets in the cover pool.

The value of assets in the cover pool which are bank accepted bills or certificates of deposit as referred to in paragraph (b) above must not exceed 15% of the face value of the issued covered bonds.

At the time of publication, all Australian covered bond issuers have limited their programmes to residential mortgage collateral for their cover pools and no such programmes include commercial mortgages.

<sup>1</sup> [http://www.austlii.edu.au/au/legis/cth/consol\\_act/ba195972/s31.html](http://www.austlii.edu.au/au/legis/cth/consol_act/ba195972/s31.html).

#### **IV. VALUATION AND LTV CRITERIA**

Contractually, cover pool assets are subject to revaluation every month by way of indexation, which varies between programmes. Please refer to each issuer's individual website for details of the index used and the methodology applied.

LTV criteria – in addition to indexation, for the purposes of calculating the minimum overcollateralisation requirements contained in Section 31A<sup>2</sup> of the Banking Act as well as the monthly asset coverage testing, the following LTV requirements apply:

- > Residential mortgages – if the mortgage loan exceeds 80% of the value of the mortgaged property securing that loan then the value of the loan is reduced by the amount of the excess; and
- > Commercial mortgages – if the mortgage loan exceeds 60% of the value of the mortgaged property securing that loan then the value of the loan is reduced by the amount of the excess.

#### **V. ASSET – LIABILITY MANAGEMENT**

This is principally a matter for the credit rating agencies in relation to timely payment and their opinions on the value of the pool in liquidation scenarios. The issuers have regard to ECAI's methodologies and criteria to seek to ensure maintenance of AAA ratings.

#### **VI. TRANSPARENCY**

Since August 2012, an Australian Transparency Template has been in force, followed by each of the eight Australian covered bond issuers. It is in line with the guidelines of the ECBC's Covered Bond Label Initiative, and covers the following areas of each issuer's programme:

- |           |                 |                        |
|-----------|-----------------|------------------------|
| > Dates   | > Prepayments   | > Compliance Tests     |
| > Ratings | > Pool Summary  | > Bond Issuance        |
| > Parties | > Mortgage Pool | > Asset Coverage Tests |

#### **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The Banking Act requires that a cover pool monitor be appointed in respect of a cover pool. The cover pool monitor must either be a registered auditor or hold an Australian financial services licence that covers the provision of financial services as the cover pool monitor. The cover pool monitor is appointed by the bank issuer but must be independent and must provide reports in respect of the cover pool to, amongst others, APRA on request. The Banking Act requires the cover pool monitor to undertake specific functions, and report on such functions, biannually. Those functions involve assessing and reporting on the following:

- > compliance with the 103% statutory minimum overcollateralisation requirement;
- > compliance of the assets in the cover pool with the eligibility requirements under the Banking Act; and
- accuracy of cover pool asset register.

In addition, the cover pool monitor is also required contractually to check the arithmetic accuracy of the asset coverage tests on an annual basis.

As the regulator of banks in Australia, APRA has some general powers under the Banking Act with respect to bank issuers but not the Covered Bond Guarantor. For example, under section 11CA(2) of the Banking Act APRA may give a direction to a bank issuer not to transfer any amount or asset to a cover pool. However, APRA may only give such directions in specific and limited circumstances including when APRA has reason to believe that the bank issuer is unable to meet its liabilities, there has been a material deterioration in the bank issuer's financial condition, the bank issuer is conducting its affairs in an improper or financially unsound way, the

2 [http://www6.austlii.edu.au/cgi-bin/viewdoc/au/legis/cth/consol\\_act/ba195972/s31a.html](http://www6.austlii.edu.au/cgi-bin/viewdoc/au/legis/cth/consol_act/ba195972/s31a.html).

failure to issue a direction would materially prejudice the interests of the bank issuer's depositors, or the bank issuer is conducting its affairs in a way that may cause or promote instability of the Australian financial system.

### **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Cover pool assets are sold by the bank issuer to the Covered Bond Guarantor, which is a special purpose trust. The sale is a true sale and will be enforceable against the issuer in the event of its insolvency. In addition, the Covered Bond Guarantor will grant a security interest over the cover pool assets in favour of a security trustee which will be recognised at law and will not be enforceable against the Covered Bond Guarantor in the event of its insolvency.

### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Not in compliance with UCITS because Australian issuers are not domiciled in member states of the EEA.

Risk weighting varies depending upon the jurisdiction concerned, pending standardised risk-weights from the EBA and the outcome of the current Basel consultation.

Covered bonds issued by Australian issuers are currently not eligible assets for repurchase agreements with the ECB or NCBs, or the BoE. There is, however, a view that some Australian covered bonds may be eligible for inclusion in the calculation of LCR in some regulatory jurisdictions.

Covered bonds issued by Australian issuers and denominated in Australian dollars are repo eligible with the Reserve Bank of Australia subject to satisfying an assessment by the Reserve Bank of Australia and the issuer meeting disclosure requirements on an ongoing basis. Furthermore, covered bonds may be deemed to be Level III LCR assets on a case by case (under the Australian Prudential Regulation Authority's implementation of Basel III LCR guidelines) subject to satisfying an application for repurchase eligibility with the Reserve Bank of Australia (and which must be made separately for each covered bond issue).

There are no special Australian federal or state investment regulations regarding Australian covered bonds.

### **X. ADDITIONAL INFORMATION**

The development of the Australian covered bond market largely came about due to the financial crisis and the effective seizure of non-sovereign global capital markets through this period. After the events of 2008 and 2009, the Australian Federal government recognised the need for increasing funding diversity within the Australian banking system. The Australian Federal government subsequently passed changes to the Banking Act, enabling banks to issue covered bonds in the form prescribed by the Banking Act. The first covered bond issuances from Australian banks occurred in late 2011. Issuance volumes subsequently increased dramatically through 2012 as issuers properly established their programmes in global bond markets.

In principle, Australian ADIs have three primary term funding options for their balance sheets: senior unsecured bonds, residential mortgage backed securitisation and covered bonds. In practice, the larger institutions have effective access to all three options while smaller institutions principally issue senior unsecured bonds and residential mortgage backed securities for term funding.

It is expected that Australian covered bond issuers will continue to use their issuance capacity sparingly; balancing maintaining a global market presence against the higher all-in funding costs associated with covered bonds and program management costs (in comparison to funding through senior unsecured bonds or residential mortgage backed securities), and the need to be able to respond quickly to deterioration in funding conditions. Feedback from a range of market participants suggests that this funding strategy may drive a scarcity premium in terms of the relative valuation of Australian covered bonds against other forms of Australian bank secured financing and other global covered bond markets.

# AUSTRALIA

**Issuers:** There are eight issuers of Australian covered bonds. These are Westpac Banking Corporation, National Australia Bank Limited, Australia and New Zealand Banking Group Limited, Commonwealth Bank of Australia, Suncorp Bank, Macquarie Bank, Bank of Queensland and ING Bank Australia. These eight Australian based banks have primarily issued soft bullet covered bonds. However, Bank of Queensland has issued conditional pass-through covered bonds (CPTCB) and is the first Australian ADI to issue a covered bond in that format. It is unlikely that the smaller Australian ADIs will be seeking to issue Australian covered bonds. The reason for this is due to the legislative asset encumbrance limit restriction of 8%. This is perceived by many issuers as compromising their ability to support a sufficiently broad market in a prospective programme.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/98/Australian\\_Covered\\_Bonds](https://www.ecbc.eu/framework/98/Australian_Covered_Bonds)



### **3.3 AUSTRIA**

By Alexa Molnar-Mezei, Erste Group Bank and Friedrich Jergitsch, Freshfields Bruckhaus Deringer

#### **I. FRAMEWORK**

Austria has three different frameworks under which covered bonds can be issued. These are:

1. Hypothekenbankgesetz: Mortgage Banking Act (Law of 7/13/1899) "Pfandbriefe"
2. Gesetz betreffend fundierte Bankschuldverschreibungen: Law on Secured Bank Bonds (Law of 12/27/1905) „FBS“
3. Pfandbriefgesetz: Mortgage Bond Act (Law of 12/21/1927) "Pfandbriefe"

Under these laws, banks can issue two kinds of covered bonds, Pfandbriefe which are issued under the Mortgage Banking and Mortgage Bond Act, and Fundierte Bankschuldverschreibungen (FBS) issued under the Law on Secured Bank Bonds.

Amendments of all three laws have been suggested by Austria's banks to the legislator with the aim of further harmonising/unifying Austrian Pfandbrief legislation in a single Act, and including, for example, an improved risk management system and standardised reporting requirements to achieve more transparency that offers investors a high level of security in terms of frequency and scope of the reports and ensure that investors receive clearly defined data relating to the cover assets. It is expected that these amendments will materialize as the EU's Covered Bond Directive will be implemented in 2021.

#### **II. STRUCTURE OF THE ISSUER**

All three laws provide that only duly authorised credit institutions, with a special license to such effect, may issue covered bonds.

The Mortgage Banking Act stipulates a specialist banking provision, and this would apply to any new mortgage bank. However, the only 2 issuers currently under the Mortgage Banking Act are universal banks into which formerly specialised issuers were merged.

The Mortgage Bond Act applies to public-sector "Landes-Hypothekenbanken", which used to be owned by the Austrian provinces and some of which have been privatised.

The Law on Secured Bank Bonds applies to all banks that have a license allowing them to issue covered bonds.

Under all frameworks, the issuer holds the cover assets on its balance sheet (unless it uses another bank's assets as cover, which is permitted under pooling rules contained in all three laws) and the assets are not transferred to a separate legal entity. This means that the covered bonds are an unconditional obligation of the issuer, rather than a direct claim (solely) on the cover assets. In the case of insolvency of the issuer, the cover assets will form a pool which is separate from the issuer's other assets and a special cover pool administrator will be appointed to manage the cover assets. The covered bond holders have a preferential claim on the cover assets.

#### **III. COVER ASSETS**

Eligible cover pool assets are loans secured by (predominantly) first-ranking mortgages and public sector assets. ABS/MBS are not eligible. Pfandbriefe backed by mortgage loans are commonly referred to as "Hypothek-enpfandbriefe", while Pfandbriefe backed by public sector assets are referred to as "öffentliche Pfandbriefe".

The Law on Secured Bank Bonds allows mixed cover pools consisting of mortgage loans and public sector assets but in practice, issuers under that law form separate pools with mortgages and public sector assets, too, each backing a separate class of covered bonds.

The geographical scope of eligible mortgage assets is restricted to EU / EEA countries and Switzerland.

Therefore, USA, Canada and Japan are not eligible. For eligible countries that do not recognise the bondholders' insolvency privilege, a 10% limit is in place. For "öffentliche Pfandbriefe", the geographic scope of assets is the same as for "Hypothekenpfandbriefe".

The limits for FBS are similar. In addition to mortgage loans and public-sector assets, FBS may also be backed by assets which, by law, are suitable for investment of a ward's assets ("Mündelgelder"). This includes certain local public bonds, or Austrian Pfandbriefe.

Derivative contracts are allowed in the cover pool if they are entered to hedge interest rate, currency and credit default risks. Derivatives are only allowed for hedging and there is no limit in place on the volume of derivatives in the cover pool.

So-called substitute cover assets are limited to 15% of the amount of covered bonds outstanding and may consist of cash, bank deposits and bonds from public issuers from EEA countries and Switzerland.

#### **IV. VALUATION AND LTV CRITERIA**

The Mortgage Bank Act stipulates conditions for property valuation and the value of mortgage lending. One condition is a 60% LTV (loan to value) limit for residential and commercial mortgages based on the so-called "mortgage lending value" (which is a conservatively assessed value).

For Mortgage Bond Act issuers, the 60% LTV limit is stipulated in the statutes of each issuer for historical reasons.

There is no explicit provision for property valuation for FBS but – to our knowledge – issuers mostly adhere to the 60% LTV limit stipulated in the Mortgage Bank Act.

In practice, monitoring of the property value is done by the issuer and regular audits of the cover register are undertaken. Valuation guidelines mostly follow the guidelines prepared by each issuer for solvency purposes, which are approved by the regulator.

#### **V. ASSET – LIABILITY MANAGEMENT**

All Austrian covered bond laws contain the matching principle whereby the total volume of assets in the cover pool must at least cover the total nominal amount of outstanding covered bonds, the interest payable on the outstanding covered bonds and potential running costs in case of insolvency of the issuer (expressed under the Mortgage Bank Act and Mortgage Bond Act as mandatory overcollateralisation of 2% which must be held in highly liquid substitute cover assets).

In addition, issuers may opt-in their statutes to maintain cover on a net present value basis, which is used by many of the international benchmark issuers. Issuers may also provide additional over collateral at their discretion, for instance in order to meet rating requirements and withstand stress tests.

The legislation also contains a simple maturity matching formula, limiting the issuance of bonds the maturity of which is considerably greater than the maturity of assets in the cover pool.

#### **VI. TRANSPARENCY**

The Austrian issuers organised in the Austrian Covered Bond Forum have set up a working group developing and analysing the CBIC Template Guidelines. As a result, Austrian issuers have developed a National Transparency Template – available on the Covered Bond Forum and of the Covered Bond Label websites – with quarterly updates – based on the CBIC European Transparency Standards. The cover pool reports can be found at:

The central website of Austrian Covered Bond Forum: <http://www.pfandbriefforum.at/downloads.html>

The National Transparency Template includes the following information:

- > Programme, Issuer Senior and Covered Bond ratings;
- > Overcollateralisation values (based on nominal and net present values);

- > The total volume of Pfandbrief outstanding as well as the related cover pools in terms of nominal, net present and stressed net present value;
- > The share of further cover assets;
- > The maturity structure of the Pfandbrief and cover assets;
- > Information on the size of the cover assets;
- > Information on the mortgages by property type/type of use, region and state;
- > Information on the claims against the public sector by state and type of issuer;
- > Information on the mortgages registered liens by register country;
- > Summary tables including LTV, currency, interest and maturity profile;
- > Information on non-performing loans (the percentage of loans more than ninety days past due);
- > Information on interest rates and currencies of cover assets and outstanding covered bonds.

The National Transparency Template covers the Guidelines according to the ECBC's Covered Bond Label Initiative that have been introduced in the Transparency Template over the last year by the Austrian Covered Bond Forum. Moreover, the items above disclose the information required in Article 129(7) of the Capital Requirements Regulation (CRR).

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The cover pool is monitored by a trustee ("Treuhänder" or, in the case of the Law on Secured Bank Bonds, "Regierungskomissär"), who is appointed by the Minister of Finance. The trustee is liable according to the Austrian Civil Code. The trustee has to ensure that the prescribed cover for the covered bonds exists at all times and that the cover assets are recorded correctly in the cover register. Without his or her approval, no assets may be removed from the cover pool. Any disputes between the issuer and the trustee would be settled by the regulator.

If a concern exists that the rights of the covered bond holders are being infringed, the court must appoint a joint special representative of the covered bond creditors ("Kurator").

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The Cover Register ("Deckungsregister") in which all cover assets are entered, permits the identification of the cover assets. All mortgages, public-sector loans, substitute cover assets and derivative contracts which form part of the cover, must be registered in the cover register.

The issuers must inform the debtors (or, as the case may be, the counterparties) of the cover assets that their debt (or derivative contract) is made part of the cover pool. On that occasion the issuer must also notify the debtor that it is not allowed to discharge its debt through any set-off. An exemption from the general prohibition of set-off applies to derivative contracts, when the set-off (or netting) occurs in respect of receivables arising under one and the same Master Agreement (i.e. pertaining to the cover assets).

The legal effect of registration is that in the case of insolvency of the issuer, the assets which form part of the separate legal estate (the so-called "Sondervermögen") can be identified: All values contained in the register would be qualified as part of the separate legal estate.

While the bank carries out the daily administration of the cover register, it is the cover pool monitor who supervises the required cover und registration in the cover register.

### **Asset segregation**

Cover assets may only be enforced upon only by the covered bond creditors (or counterparties of derivative contracts which form part of the cover pool).

If the issuer becomes insolvent, the cover assets are segregated from the remainder of its assets. The cover assets form what is known as "Sondervermögen" (pool of special assets) and are earmarked for the claims of the covered bond holders. Any voluntary overcollateralisation is also bankruptcy-remote. Only cover assets that are evidently not needed to satisfy the claims of the covered bond holders are passed back to the issuer's general insolvency estate.

The cover assets are managed by a special administrator, who is appointed by the bankruptcy court after consultation with the Austrian regulator (the FMA). The special administrator has the right to manage and dispose of the recorded assets.

#### **Impact of insolvency proceedings on covered bonds and derivatives**

Covered bonds are not automatically accelerated in case of insolvency of the issuer, but will be repaid at the time of their contractual maturity. The cover assets are administered in favour of the bond holders and any claims of the covered bond holders in respect of interest or principal repayments are to be paid (primarily) from the cover assets. Equally, in respect of derivatives which belong to the pool, there is no (immediate) legal consequence of insolvency and the counterparty claims as derivative transactions rank pari passu with the claims of the covered bond holders.

#### **Preferential treatment of covered bond holders**

Covered bond holders enjoy preferential treatment as the law stipulates the separation of the cover assets on the one hand and the insolvency estate on the other hand. To the extent that they are not satisfied from the cover assets, the covered bond holders may also participate in the issuer's general insolvency proceedings. Only if the cover assets do not suffice to satisfy the covered bond creditors, the covered bonds are accelerated.

#### **Access to liquidity in case of insolvency**

Once appointed, the special administrator for the cover pool has the duty to manage the cover pool in order to satisfy the claims of the covered bond holders. The administrator may, for example, sell assets in the cover pool or enter into a bridge loan in order to create liquidity to service the bonds in issue.

The administrator also has access to any voluntary overcollateralisation, which is considered bankruptcy-remote. Any surplus collateral may only be transferred back to the insolvency estate to the extent that it is evident that it will not be needed to cover the claims of the covered bond holders.

#### **Sale and transfer of mortgage assets to other issuers**

By virtue of his or her appointment, the special administrator has the right to manage and dispose of the cover assets. In particular, the special administrator must collect the cover assets according to their contractual maturity.

The special administrator is also entitled to sell the assets collectively to a separate credit institution. This institution must then take over all liabilities with regard to the covered bonds. In fact, one of the tasks of the special administrator is to find a suitable credit institution that will buy the assets collectively. If a sale is not feasible, the cover pool administrator has to continue the servicing of the cover pool and the outstanding covered bonds.

### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 of the CRR. Austrian Pfandbriefe, as well as Austrian covered bonds (FBS), fulfil the criteria of Article 52(4) of the UCITS Directive as well as those of Article 129 of the CRR<sup>1</sup>. This results in a 10% risk-weighting in Austria and other European jurisdictions where a 10% risk-weighting is allowed.

Austrian covered bonds are eligible in repo transactions with the National Central Bank.

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

**Issuers:** BAWAG P.S.K. Bank für Arbeit und Wirtschaft und Österreichische Postsparkasse AG, Erste Group Bank AG, Allgemeine Sparkasse Oberösterreich Bank, Bausparkasse der österreichischen Sparkassen Aktiengesellschaft, Volksbank Wien AG, Kommunalkredit Austria AG, Raiffeisen Bank International AG, Raiffeisenlandesbank Oberösterreich AG, Raiffeisenlandesbank Niederösterreich-Wien AG, Raiffeisen-Landesbank Steiermark AG, Raiffeisen-Landesbank Tirol AG, UniCredit Bank Austria AG, HYPO NOE Gruppe, HYPO NOE Landesbank, HYPO Tirol Bank AG, Vorarlberger Landes- und Hypothekenbank Aktiengesellschaft, HYPO Bank Burgenland AG, Austrian Anadi Bank AG, Hypo Oberösterreich, Hypo Salzburg, Hypo Steiermark, BKS Bank AG, Oberbank AG, BTV-Bank für Tirol und Vorarlberg AG, Sparkasse Schwaz.

**ECBC Covered Bond Comparative Database:**

[https://www.ecbc.eu/framework/95/FBS\\_-\\_Fundierte\\_Bankschuldverschreibungen](https://www.ecbc.eu/framework/95/FBS_-_Fundierte_Bankschuldverschreibungen)  
and  
<https://www.ecbc.eu/framework/8/Pfandbriefe>



COVERED BOND : UniCredit Bank Austria AG (2 pools).  
· L A B E L ·



### **3.4 BELGIUM**

By Dries Janssens, Belfius Bank

#### **I. FRAMEWORK**

The legal basis for Belgian covered bonds is incorporated into the banking law, meaning the law of 25 April 2014 on the status and the supervision of credit institutions (the "Banking Law"). The legislation with respect to Belgian covered bonds has been supplemented by two Royal Decrees and several regulations.

The following gives an overview of the legislative framework for Belgian covered bonds:

- > The Law of 3 August 2012 establishing a legal regime for Belgian covered bonds, which is implemented in the Law of 25 April 2014 on the status and supervision of credit institutions (*Wet van 25 april 2014 op het statuut van en het toezicht op kredietinstellingen/Loi du 25 avril 2014 relative au statut et au contrôle des établissements de crédit*) (the "**Banking Law**");
- > The Law of 3 August 2012 on various measures to facilitate the mobilisation of claims in the financial sector (the "**Mobilisation Law**");
- > The Royal Decree of 11 October 2012 on the issuance of Belgian covered bonds by Belgian credit institutions (the "**Covered Bond Royal Decree**");
- > The Royal Decree of 11 October 2012 on the cover pool administrator in the context of the issuance of Belgian covered bonds by a Belgian credit institution (the "**Cover Pool Administrator Royal Decree**");
- > The Regulation of the National Bank of Belgium ("NBB") concerning the practical modalities for the application of the Law of 3 August 2012 that establishes a legal regime for Belgian covered bonds dated 29 October 2012 (the "**NBB Covered Bonds Regulation**"); and
- > The Regulation of the National Bank of Belgium addressed to the statutory auditors and the cover pool monitors of Belgian credit institutions with respect to their involvement in the context of the issuance of Belgian covered bonds in accordance with Chapter VIII of the Law of 22 March 1993 dated 29 October 2012 (the "**NBB Cover Pool Monitor Regulation**").

#### **II. STRUCTURE OF THE ISSUER**

Belgian covered bonds can be issued by credit institutions established in Belgium. However, such institutions first need to be licensed by the NBB as covered bond issuer (general authorisation as issuer) and also the covered bond program itself needs to get approval from the NBB (specific program license).

An extensive issuer license file detailing aspect like its strategy, solvency, risk management, asset encumbrance, IT systems, internal audit, etc. needs to be submitted. At program level the issuer has to detail the impact of the covered bond issuance on its overall liquidity, the quality of the cover assets and maturity matching of assets/liabilities in the program. The statutory auditor of the issuer has to report to the NBB on the organisational capacity of the credit institution to issue and follow up the covered bonds.

The license might be conditional upon respecting issuance limits that the NBB on a case-by-case basis might decide on. If licensed, the issuer and the program(s) are added to specific lists that are available for consultation on NBB's website.

An indirect issuance limit on covered bonds has been integrated in the Covered Bond Royal Decree by limiting the amount of cover assets to 8% of the Belgian GAAP balance sheet.

At program level a distinction is made between Article 129 CRR-compliant covered bonds, i.e. "Belgian pandbrieven/lettres de gage", and non-Article 129 CRR-compliant (but still UCITS 52(4) compliant) covered bonds, i.e. "Belgian covered bonds". The denomination of both terms is protected by law. However, the way that the

Banking Law and the Royal Decree are stipulated, makes that in practice the Belgian credit institutions are only able to issue Article 129 CRR-compliant covered bonds. Therefore, in what follows we will only concentrate on the Belgian pandbrieven.

Consultation of the NBB's website will hence give an overview of:

- > Belgian credit institutions issuing covered bonds
- > Belgian pandbrieven programs and its specific issuances

When a credit institution issues Belgian pandbrieven, its assets consist by operation of law of its general estate on the one hand and (one or more) separate, ringfenced "special estate(s)" on the other hand. Assets become part of the cover pool upon registration in a register held by the issuer for such purpose. As of that moment these assets form part of the special estate and are excluded from general bankruptcy clawback risk (= balance sheet structure, no use of a special purpose vehicle).

The Belgian pandbrieven investors have a direct recourse to (i) the general estate of the issuing credit institution (i.e. repayment of the Belgian pandbrieven is an obligation of the issuing bank as a whole) and (ii) the special estate, that comprises the cover pool that is exclusively reserved for the Belgian pandbrieven investors under the specific program to which the special estate is attached and for the claims of other parties that are or can be identified in the issue conditions.

When insolvency proceedings are opened with regard to the issuing credit institution, by operation of law, the assets recorded in the special estate do not form part of the insolvent general estate and hence are not affected by the opening of the insolvency proceedings. Upon insolvency of the credit institution, Belgian pandbrieven investors fall back on the cover pool assets (= the special estate) for the timely payment of their bonds but at the same time they continue to have a claim against the insolvent general estate. Creditors that are not related to the special estate do not have any recourse to these cover pool assets.

### **III. COVER ASSETS**

All assets and instruments that are legally segregated for the benefit of the Belgian pandbrieven investors in a segregated estate constitute the cover pool. The cover pool can be composed of assets that are part of any of the following categories:

- > category 1: residential mortgage loans, and/or senior RMBS
- > category 2: commercial mortgage loans, and/or senior CMBS
- > category 3: exposure to the public sector
- > category 4: exposure on financial institutions
- > category 5: derivatives

These five general categories are subject to further eligibility criteria:

- > geographical scope: OECD, except for category 1 and 2 that are further restricted to EEA;
- > with respect to the MBS as mentioned in each of the first two categories: senior MBS are eligible provided that 90% of the underlying pool is directly eligible and is originated by a group related entity of the issuer of the Belgian pandbrieven. The senior MBS must qualify for credit quality step 1 (as set out in Article 251 CRR). The securitisation vehicle of the MBS must be located in the EU. At last these securitisation tranches only remain eligible as cover asset within the limits imposed by Article 129 CRR;
- > for the mortgage loans mentioned in category 1 and 2: the loans need to be guaranteed by first lien (and subsequent lower ranking) mortgages on residential respectively commercial properties located in the EEA. Mortgage loans with properties under construction/in development can only be added to the

cover pool if they do not represent more than 15% of all the mortgage loans taken up in the cover pool; Residential real estate is defined as real estate property that is destined for housing or for leasing as housing by the owner. Commercial real estate is real estate property that is primarily used for industrial or commercial purposes or for other professional activities such as offices or other premises intended for the exercise of a commercial or services activity;

- > for category 3: exposure to the public sector can only be (i) exposure to or guaranteed or insured by central governments, central banks, public sector entities, regional governments and local authorities or (ii) exposure to or guaranteed or insured by multilateral development banks or international organisations that qualify as a minimum for a 0% risk weighting as set out in article 117 CRR;
- > for category 5: derivatives, of which the counterparty has a low default risk (meaning a counterparty that qualifies for credit quality step 1 or step 2 as set out in Article 120 CRR), are only eligible if related to cover the interest rate/currency risk of the cover assets or Belgian pandbrieven. Moreover, a group related entity of the Belgian pandbrieven issuer is not eligible as derivative counterparty unless (i) it is a credit institution that benefits from a credit quality step 1 (as defined in Article 120 CRR) and forms part of the EEA, and (ii) it has a (unilateral) credit support annex (CSA) in place. Note that assets posted under the CSA would belong to the separate legal estate but are not considered as cover assets as described in this section III. Finally, the derivative contract needs to stipulate that suspension of payments or bankruptcy of the issuer does not constitute an event of default;
- > for all of the categories: assets that are delinquent may not be added to the cover pool.

The cover pool can be composed of assets out of each of the five categories. But for each program that is set up (and accordingly for each segregated estate), assets out of one of the first three categories (so either residential mortgage loans, commercial mortgage loans or exposure to public sector) need to represent a value of at least 85% of the nominal amount of Belgian pandbrieven outstanding under such program. In practice this comes down to three types of Belgian pandbrieven programs that can be set up: residential mortgage covered bond program, commercial mortgage covered bond program or public covered bond program. How such value is determined, is explained in the following chapter.

#### **IV. VALUATION AND LTV CRITERIA**

The valuation rules of the cover assets determine the maximum amount of Belgian pandbrieven that can be issued. The value of the cover assets of each of the categories as mentioned in the section above will be determined as follows:

- > category 1: minimum of [the outstanding loan amount, 80% of the value of the mortgaged property, the mortgage inscription amount (which can include Belgian mortgage mandates but upon the condition that there is a first lien mortgage inscription of at least 60% related to one and the same property)]
- > category 2: minimum of [the outstanding loan amount, 60% of the value of the mortgaged property, the mortgage inscription amount]
- > category 3: value is equal to the book value (nominal amount outstanding), except when the counterparties are not part of the EU in which case the value will be zero. There is however an exception to this zero valuation rule for non-EU counterparty exposure:
  - a) in case the non-EU counterparties qualify for credit quality step 1, or)
  - b) in case the non-EU counterparties qualify for credit quality step 2 and do not exceed 20% of the nominal amount of Belgian pandbrieven issued in both cases the value is equal to the book value.
- > category 4: no value can be given to this category unless:
  - a) the counterparty qualifies for credit quality step 1, or

b) in case the counterparty qualifies for a credit quality step 2, the maturity does not exceed 100 days as of the moment of registration in the cover pool in both cases the value is equal to the book value.

> category 5: no value is given to this category.

Additional valuation rule applicable to any category: in case of delinquencies above 30 days, the value as determined per category is reduced by 50%. In case of default (> 90 days), no value can be given anymore.

When it comes to property valuation (applicable to cat 1 and cat 2), in general in Belgium every property is valued during the underwriting process based on either the notarial deed (that includes the property sale price) and/or in case of construction, the financial plan of the architects. The valuation can also be based on the report of an accredited third party appraiser.

In line with the NBB Covered Bonds Regulation, the market value will have to be justified in a clear and transparent manner on the basis of a document established by a person who is independent from the persons who are in charge of granting the relevant loans. An expert report is required for real estate which has a value of more than 3 million euro or 2% of the amount of the relevant covered bonds. Otherwise, the value of the real estate can be determined on the basis of the sales value as established in the notarial deed at the time of sale or the valuation report of the architect in the case of real estate in construction. The credit institution must apply a prudent revaluation procedure to determine the current value.

The value of the real estate has to be tested regularly. A more frequent control shall occur in case of significant changes to the market conditions. For the regular re-appraisal of the value of the real estate, customary methods and benchmarks (such as third party indices) may be used.

## **V. ASSET-LIABILITY MANAGEMENT**

Each issuer is required to perform several asset cover tests. The first one has been already mentioned in section III and requires that the value of either category 1, 2 or 3 is at least 85% of the nominal amount of Belgian pandbrieven (the "**85% asset coverage test**"). Secondly the value of the cover assets has to exceed the nominal amount of Belgian pandbrieven by 5% at all times (5% overcollateralisation) (the "**overcollateralisation test**"). Finally, the sum of the interest, principal and other revenues has to be sufficiently high to cover for the sum of interests, principal and other costs due under/with regard to the Belgian pandbrieven, as well as any other obligation of the Belgian pandbrieven program (the "amortization test").

Next to the asset cover tests, a liquidity test has to be performed whereby the issuer calculates its maximum liquidity need within the next 180 days (the "**liquidity test**"). This amount has to be covered by (sufficiently) liquid cover assets. In order to meet the test, a liquidity facility could be used to cover liquidity needs, as long as it is not provided by a group related entity of the issuer. Liquid assets are assets that (i) meet the cover asset eligibility criteria and (ii) qualify as liquid assets under the Regulation of the Banking Finance and Insurance Commission (CBFA) of 27 July 2010 on the liquidity of credit institutions, financial holdings, clearing institutions and institutions assimilated with clearing institutions.

If an issuing credit institution fails to meet the requirements of the liquidity test, it has 14 days to take the necessary redress measures. As long as an issuing credit institution has not taken the necessary redress measures, it is not allowed to issue new Belgian covered bonds.

The issuer is also required to manage and limit its interest and currency risk related to the program and will be able to sustain severe & adverse interest/exchange rate movements.

At last it is important to highlight that the tests have to be met on a daily basis. It is the task of the cover pool monitor to verify at least once a month if the issuer is compliant with all the tests.

Issuer will have the possibility to create retained Belgian pandbrieven for liquidity purposes.

## **VI. TRANSPARENCY**

All market participants provide extensive data in their monthly reporting under a similar format.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

A Belgian credit institution licensed to issue Belgian pandbrieven is subject to special supervision by the NBB as well as the supervision by a cover pool monitor.

The cover pool monitor:

- > is chosen by the issuer from those persons appearing on the official list of certified/statutory auditors established by the NBB;
- > shall be appointed subject to prior approval from the NBB;
- > cannot be the certified/statutory auditor of the issuer.

The main tasks of a cover pool monitor consist of ensuring compliance with legal and regulatory requirements, e.g. are the cover assets duly recorded in the register, do the cover assets fulfil the eligibility criteria, is the value correctly registered, etc. The cover pool monitor is required to perform these tasks not only on an ongoing basis, but also prior to the first issuance of Belgian pandbrieven by the credit institution. The ongoing verifications must be done at least once a month.

Next to that the cover pool monitor has a reporting obligation towards the NBB on several aspects such as level of overcollateralisation and results of the different tests that have to be performed. The issuer is obliged to provide full cooperation to the cover pool monitor and shall give the cover pool monitor the right to review the register, loan documents, accounting book, or any other document. The NBB at its discretion can ask the cover pool monitor to perform other tasks and verifications.

If the NBB considers that a category of Belgian pandbrieven no longer fulfills the criteria or the issuer no longer fulfills its obligations, it can withdraw the license of the issuer and consequently withdraw the issuer from the list of Belgian covered bond issuers. Such a deletion from the list will be reported to the European Commission but does not have consequences for existing Belgian pandbrieven holders.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Assets need to be registered before they form part of the segregated estate. The law protects these registered assets (including all collateral and guarantees related to such assets) from a claim of the creditors of the insolvent general estate and therefore they are not affected by the start of insolvency proceedings against the issuer. Also, any assets that would be posted via a CSA that is in place would be protected from insolvency proceedings as it is required to register these types of assets as well, although as explained before one cannot consider those as pure cover assets.

The cover assets once registered are exclusively and by operation of law reserved for the benefit of the Belgian pandbrieven investors and other creditors that might be linked to the program (e.g. a swap counterparty of which the derivative is included in the cover pool). These creditors also have a claim on the general estate. Only when all obligations at program level have been satisfied, will any remainder of assets of the separate estate return to the general estate of the issuer. Before such time, the bankruptcy receiver of the credit institution, in consultation with the NBB, could ask the restitution of cover assets if and when there is certainty that not all assets will be necessary to satisfy the obligations under the Belgian pandbrieven program.

Commingling risk has been addressed in the Belgian framework both pre- and post-insolvency. Collections received from cover assets as of the date of bankruptcy will by law be excluded from the insolvent general estate. Registered collections received from the cover assets before the date of bankruptcy are part of the separate estate and legally protected via the right of 'revindication'. Pursuant to this mechanism, if collection from the cover assets cannot be identified in the general estate, unencumbered assets in the general estate will be selected by taking into account criteria specified in the issue conditions. Set-off and claw back risk have been addressed by the Mobilisation Law.

Upon the initiation of bankruptcy proceedings or the instruction of an exceptional recovery measure by the competent supervisor with regard to the credit institution, or even before whenever the NBB considers it to be necessary (e.g. at the moment the license is withdrawn), a cover pool administrator ("gestionnaire de portefeuille") will be appointed that will take over the management of the Belgian pandbrieven program from the credit institution. The cover pool administrator (appointed by the NBB) is legally entrusted with all powers that are necessary for the management of the segregated estate, and can take all such actions (some in consultation with/upon approval of both the NBB and the representative of the noteholders) required to fulfill in a timely manner the obligations under the Belgian pandbrieven. Such actions could consist in (partial) sale of the underlying cover assets, taking out a loan, issuance of new bonds to use for ECB purposes or any other action that might be needed to fulfill the obligations. Acceleration of the Belgian pandbrieven is not possible, unless after the appointment of a cover pool administrator:

- > noteholders would decide otherwise;
- > (after consultation with the noteholders' representative and with the consent of the NBB) it is clear that further deterioration of the cover assets would lead to a situation whereby it is impossible to satisfy the obligations under the Belgian pandbrieven (i.e. in a situation of insolvency of the cover pool).

The bankruptcy receiver has a legal obligation to cooperate with the NBB and the cover pool administrator in order to enable them to manage the special estate in accordance with the law.

The Cover Pool Administrator Royal Decree specifies the tasks of the cover pool administrator. These include, amongst other things, to procure the payment of interest and principal on the Belgian covered bonds, collection of moneys from the cover assets (including any enforcement), entering into relevant hedging and liquidity transactions and carrying out of certain administrative tasks. The cover pool administrator will also have to test compliance with the cover tests and inform the NBB and the noteholders' representative thereof.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 CRR.<sup>1</sup> Belgian pandbrieven comply with the requirements of Article 52(4) UCITS and Article 129 CRR if and to the extent they are listed by the NBB as such.

**Issuers:** Argenta Spaarbank, Belfius, BNP Paribas Fortis, KBC and ING Belgium.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/100/Belgium\\_Covered\\_Bonds](https://www.ecbc.eu/framework/100/Belgium_Covered_Bonds)



COVERED BOND : Argenta Spaarbank NV/SA and BNP Paribas Fortis NV/SA (1 pool).

<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

### **3.5 BRAZIL**

By ABECIP – The Brazilian Association of Real Estate Loans

#### **I. LEGAL FRAMEWORK**

On 19 January 2015, the Letra Imobiliária Garantida ("LIG") – Brazilian Covered Bonds – was created by Law 13.097 (Articles 63 to 94), which defined their main characteristics and structure, with due regard for CBs best international practices. The LIG is a transferrable, freely tradable security issued directly and exclusively by financial institutions approved by the BCB and registered with a central depositary, also approved by the BCB.

This law delegated to the National Monetary Council ("CMN"), and the Central Bank of Brazil ("BCB"), the secondary regulations for LIGs. The CMN, in turn, edited on 29 August 2017 CMN Resolution 4.598, detailing the regulations for issuers and fiduciary agents of LIGs. As supplementary regulations, the Central Bank of Brazil edited Circulars 3.866 and 3.872, on December 2017, 3.891 on March 2018, and 3.895 and 3.896, on May 2018.

This law also attributed to the Brazilian Securities and Exchange Commission ("CVM") the regulation for public offerings of LIGs in the local Market. In October 2020, the CVM enacted Resolution nº 8, to be effective as of February 2021, with such regulation. Therefore, public offerings of LIG should start sometime during 2021.

Brazilian financial institutions are regulated by the National Monetary Council in its capacity as the collegiate regulator of the National Financial System, and by the Central Bank of Brazil which also supervises them.

#### **II. STRUCTURE OF THE ISSUER**

In addition to the issuing institution's direct responsibility for their redemption, LIGs are collateralised by financial assets owned by the financial institution and which must be identified and segregated from its regular assets, thereby comprising segregated assets referred to as the Cover Pool, protected by a trust scheme for legal purposes called "Regime Fiduciário" (Fiduciary Regime). Although these remain under the management of the issuing institution, they must have their own controls and bookkeeping. The composition of the Cover Pool must comply with the specifications and limits stipulated in the law and regulations already mentioned, and their management by the issuing institution is subject to monitoring by a Fiduciary Agent approved by the monetary authority for that purpose, in addition to supervision by the Central Bank of Brazil of the issuing institution's role as the trustee.

#### **III. COVER POOL**

The Cover Pool can only be composed of:

- (i) Mortgage loans,
- (ii) National Treasury securities,
- (iii) derivatives instruments (for hedging purposes only) and
- (iv) cash and cash flows arising from the assets that are part of the Cover Pool.

i.1) Mortgage loans mean loans resulting from the following transactions:

- a) financing for the acquisition of residential or non-residential property,
- b) financing for the construction of residential or non-residential property,
- c) financing for legal entities to produce residential or non-residential property, and
- d) personal loans guaranteed by a mortgage or fiduciary lien on residential properties and insurance cover ("home equity").

- i.2) However, mortgage loans can only be included in the Cover Pool if the following criteria are met:
- a) performing credits only,
  - b) free of any type of encumbrance,
  - c) guaranteed by a first-degree mortgage or by a secured fiduciary lien on the property,
  - d) financing for construction, only if the property development is subject to a special regime which segregates a specific construction financing from all other liabilities of the developer, and
  - e) the credit risk rating of the transaction is not less than "B" (in a scale that goes from AA to H).

It should be emphasised that the Cover Pool should have an over-collateral of no less than 5% of the LIGs issued, while the mortgage loans should represent at least 80% of the total amount of the Cover Pool.

#### **IV. VALUATION AND LTV CRITERIA**

The issuer of the LIG may incorporate into the contract the revaluation and the loan-to-value limits criteria.

The LTV criteria for the property given as collateral for the credits linked to the real estate assets of the LIG shall abide by the following maximum percentages:

- > Residential financing – 80% of the value of the property evaluation;
- > Commercial financing – 60% of the value of the property evaluation;
- > Home equity – 60% of the value of the property evaluation; and
- > Financing for construction – 80% of the ratio between the restated nominal amount of the financing, and the property's production cost.

The value of the guarantees in order to check the LTV will be verified, as mentioned above, by the issuer at the most every three years.

#### **V. ASSET AND LIABILITY MANAGEMENT**

The issuing institution must undertake stress testing capable of measuring the impact of the main risk factors to which the Cover Pool is exposed in relation to the sufficiency requirement.

To comply with this rule, at least the interest rate risk and, when applicable, the currency risk must be factored in. The frequency of the stress testing and the holding period must be at least quarterly.

These stress tests must be carried out by the issuing institution using its own methodology based on consistent, documented and verifiable criteria, assumptions and procedures, especially bearing in mind:

- > rates, indices, terms and other material information involving the nature and complexity of the Cover Pool and the LIGs guaranteed by it;
- > individual effects of the risk factors, as well as the interaction between these factors;
- > historical elements represented by historical series of the values of each risk factor, covering at least the five years preceding the date when the test is carried out;
- > hypothetical elements that consider new information and the possibility of emerging risks not incorporated by the historical elements;
- > effects arising from scenarios that simulate extreme market conditions on each risk factor, incorporating the correlation effects;
- > forward interest rate structure as a risk factor, using at least the same vertexes defined when calculating the present values;

- > asymmetries, non-linearities, correlation breakages and other assumptions; and
- > counterparty risk involving derivative instruments, when applicable.

Regarding the liquidity requirement, the assets portfolio shall contain liquid assets in an amount equivalent to the LIG-related commitments secured by the Portfolio and falling due in the next 180 days.

## **VI. TRANSPARENCY**

The Brazilian legislation requires a series of reports and records that must be kept up to date and monitored by the issuer, the LIG trustee and by the BCB, among which we would draw attention to:

(i) The issuing institution, in managing the Cover Pool, must:

- > make available on the internet documentation about the methodologies adopted for complying with the requisites of the Cover Pool;
- > disclose on a quarterly basis, in the notes to the financial statements, information showing the status of the Cover Pool, as well as the percentage ratio of the sum of the assets comprising the Cover Pool, to the institution's total assets;
- > send to the trustee, on the fifth business day of each month, the information referring to verification of compliance with the requisites of the Cover Pool;

(ii) The local rules also contain parameters which it is mandatory to insert in the instruments of issuance such as:

- > name of the issuing financial institution and the name of the holder;
- > sequential number, place and date of issuance;
- > face value; maturity date; and fixed or floating interest rate;
- > exchange rate variance adjustment clause, as the case may be;
- > manner, frequency and place of payment;
- > identification of the Cover Pool;
- > identification and amount of the mortgage loans and other assets comprising the Cover Pool;
- > identification of the trustee, indicating their obligations, responsibilities and remuneration, in addition to the situations, conditions and way in which they can be removed from office or substituted, and the other conditions of their position;
- > amortisation regime;
- > Cover Pool management transition plan;
- > rules for the general meetings of investors holding the LIG.

BCB's Circular No. 3.872 (of 12/2017) specifies more transparency requirements for LIG issuance such as: issuing institution must publish the Asset Portfolio Statement (DCA) on its website;

- (i) the distribution of assets included in the asset portfolio by maturity bands, detailing the type of assets, updated nominal value and percentage participation in the total value of the asset portfolio;
- (ii) the notional value of derivative instruments;
- (iii) the distribution of residential and non-residential mortgage loans, with updated nominal value and percentage participation in the total value of the mortgage loans;
- (iv) Detailed report on the relevant acts or facts that have occurred or may represent a significant change in the situation of the asset portfolio and the LIGs guaranteed by it.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The Cover Pool, along with the LIGs themselves, are registered with an entity approved by the Central Bank of Brazil under the fiduciary regime to which they were submitted, representing segregated assets linked to the LIGs they must guarantee. Its management, for which the issuing institution is responsible, and compliance with the legal requisites of eligibility and sufficiency of the underlying assets are monitored by the Fiduciary Agent which is specifically authorized by the Central Bank to engage in this role. In turn, the Fiduciary Agent's performance is supervised by the monetary authority, which accumulates the overall power for supervising the financial institutions.

The Brazilian Central Bank carries out assessment of the issuers as part of banking supervision activity, supervises the Fiduciary Agent's performance and has legal power to take appropriate measures.

## **VIII. SEGREGATION OF THE COVER POOL AND THE REMOTE CHANCE OF BANKRUPTCY OF THE COVERED BONDS**

Under Brazilian legislation (Law 6.024 dated 13 March 1974) in the event of default or even financial imbalance, financial institutions face administrative intervention proceedings or extrajudicial liquidation. In the first case, the Central Bank appoints an administrator to run the institution which, if recovered, will see management returned to its owners. In the second case, where insolvency is detected, and recovery is considered unviable, the monetary authority appoints a liquidator to realize the assets and liabilities. The liquidator may file for the bankruptcy of the entity when its assets are insufficient to cover at least half of the amount of unsecured credits or, additionally, when there is hard evidence of bankruptcy fraud.

In the case of intervention, liquidation or even bankruptcy of the issuing institution, management of the asset portfolio is immediately transferred to the Fiduciary Agent, who will have full and wide-ranging powers to manage it, in addition to undertaking the redemption of the LIGs with the respective investors who will also become involved in this process through a general meeting specifically convened by the Fiduciary Agent.

The main legal effect of the fiduciary agent regime and the asset segregation that characterises it is the absolute ring-fencing in relation to the regular assets of the issuing financial institution. So, in the event of one of the situations described above, the trustee takes over management of the Cover Pool in order to redeem the LIGs, thereby ensuring that those assets will not be affected by the administrative intervention procedures or extrajudicial liquidation by the monetary authority, nor by the bankruptcy court proceedings, and are therefore exempted from competing with the issuing institution's other creditors, whether of an unsecured, fiscal or labour law nature.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The LIGs issued directly by financial institutions with registered offices in Brazil are neither CRR nor UCITS-compliant as both frameworks require the issuer to be based in the EU. Thus, LIGs do not benefit from the lower risk weighting for bank treasuries in the EU.

The LIGs are issued under specific Brazilian legislation which has not yet established specific prudential regulations for the purchase of LIGs by other financial institutions. However, the banking authority ("BCB") has indicated that it will abide by the international standards on this subject matter, as it has done with other risk issues.

**Issuers:** Banco Santander Brazil, Banco Inter, Itaú Unibanco and Banco Bradesco.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/116/Brazil\\_Covered\\_Bonds](https://www.ecbc.eu/framework/116/Brazil_Covered_Bonds)

### **3.6 BULGARIA**

By Yolanda Hristova, UniCredit Bulbank AD and Franz Rudolf, UniCredit

#### **I. FRAMEWORK**

In Bulgaria, the legal basis for the issue of covered bonds is the Mortgage-backed Bonds Law issued by the 38<sup>th</sup> National Assembly on 27 September 2000, published in the State Gazette (*Darzhaven vestnik*) issue 83 of 10 October 2000<sup>1</sup>.

#### **II. STRUCTURE OF THE ISSUER**

Pursuant to the Mortgage-backed Bonds Law, the mortgage-backed bonds shall be securities issued by banks on the basis of their loan portfolio and secured by one or more first in rank mortgages on real estate in favour of banks (mortgage loans). Only banks may issue bonds called mortgage-backed bonds.

The real estate under the previous paragraph shall be insured against destruction and shall be of the following type:

- > Housing units, including leased out;
- > Villas, seasonal and holiday housing;
- > Commercial and administrative office spaces, hotels, restaurants and other similar real estate; and
- > Industrial and warehousing premises.

The issuing bank shall adopt internal rules on conducting and documenting mortgage appraisals of real estate which shall comply with the requirements of Article 73, paragraph 5 of the Bulgarian Law on Credit Institutions.

Securities issued under procedures other than the one laid down by the Mortgage-backed Bonds Law may not be referred to with, or include in their appellation, the extension "mortgage-backed bond", or any combination of these words.

#### **III. COVER ASSETS**

The outstanding mortgage-backed bonds shall be covered by mortgage loans of the issuing bank (principal cover). To substitute loans from the principal cover that have been repaid in full or in part, the issuing bank may include the following of its assets in the cover of mortgage-backed bonds (substitution cover):

- > Cash or funds on account with the Bulgarian National Bank (BNB) and/or commercial banks;
- > Claims on the Government of the Republic of Bulgaria or the Bulgarian National Bank, and claims fully secured by them;
- > Claims on governments or central banks of states as determined by the Bulgarian National Bank;
- > Claims on international institutions as determined by the Bulgarian National Bank;
- > Claims fully backed by government securities issued by the Government of the Republic of Bulgaria, the Bulgarian National Bank, the Governments, Central Banks or international institutions;
- > Claims secured by gold; and
- > Claims fully backed by bank deposits denominated in Bulgarian levs or in a foreign currency for which the BNB quotes daily a central exchange rate.

The substitution cover of mortgage-backed securities shall not exceed 30% of the total amount of liabilities of the issuing bank under that issue. Mortgage-backed Bonds cover from any issue (the sum total of the principal cover and the substitution cover) may not be less than the total amount of liabilities towards the principals of mortgage-backed bonds from that issue which are outstanding and in circulation outside the issuing bank.

<sup>1</sup> Last amended with issue 64 of 2020, latest amendments entered into force on 21 August 2020.

The claims of the bondholders under mortgage-backed bonds from each issue shall be secured by a first pledge on the assets of the issuing bank included in the cover of that issue. The pledge is a subject of entrance in the Central Registers of Special Pledges, with the respective issue of mortgage-backed bonds being indicated as a pledge creditor.

The issuing bank shall request an entry and submit to the Central Register of Special Pledges all data required for the entry of the pledge within one month after executing a mortgage-backed bonds issue and shall update that data at least once every six months thereafter. The pledge shall remain in force until the full redemption of the liabilities of the issuing bank under the respective issue of mortgage-backed bonds without the need for any renewal. Deletion of the pledge entry shall be made upon the full redemption of the issuing bank's liabilities under the respective issue of mortgage-backed bonds on the basis of a document issued by the bank's auditors.

#### **IV. VALUATION AND LTV CRITERIA**

##### **Valuation**

Mortgage lending value shall be mortgage lending value as defined in Article 4, paragraph 1, point 74 of Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012 ("Regulation 575/2013"). Mortgage appraisals of property shall be performed by officers of the issuing bank or by physical persons designated by it having the relevant qualifications and experience.

For appraisals of the property the comparative method, the revenue method and the cost-to-make method shall be used for the purposes of the law.

The mortgage appraisal shall explicitly specify the method or combination of the above methods used with the relative weight of each method in the appraisal, as well as the sources of data used in the analysis and calculations.

Subsequent mortgage appraisals of property used as collateral on the loans recorded in the register of mortgage-backed bonds cover shall be made at least once every twelve months for loans which:

- > Have outstanding liabilities exceeding 1% of the issuing bank's own funds; or
- > Have not been consistently classified as standard risk exposures throughout that period.

##### **LTV criteria**

The LTV criteria (for the mortgage loans) are generally defined in the banks own lending policies depending on their risk appetite and other internal rules.

Article 6 of the Law on Mortgage-backed Bonds stipulates that mortgage loans shall be included into the calculation of the principal cover at the value of their outstanding principal but at no more than 80% of the mortgage appraisal value of the real estate as housing units, including leased ones, and at no more than 60% of the mortgage appraisal value of the real estate as villas, seasonal and holiday housing units used as collateral on mortgage loans.

Mortgage-backed bonds cover from any issue (the sum total of the principal cover and the substitution cover) may not be less than the total amount of liabilities towards the principals of mortgage-backed bonds from that issue which are outstanding and in circulation outside the issuing bank.

Article 27 paragraph 1 in Section II Criteria for Exposures Secured by Mortgages on Immovable Property in Ordinance No 7\* of 24 April 2014 on Organisation and Risk Management of Banks issued by the Bulgarian National Bank (published in the State Gazette, issue 10 of 5 February 2016; effective as of 5 February 2016; last amended by issue 11 of 2021) stipulates that as regards the application of Article 124, paragraph 2 of Regulation (EU) No 575/2013:

1. part of the exposure secured by mortgages on residential property that receives a risk weight of 35% shall not exceed 70% of the lower of the market and mortgage lending value of the property in question;

2. part of the exposure secured by mortgages on commercial immovable property that receives a risk weight of 50% shall not exceed 50% of the lower of the market and mortgage lending value of the property in question.

Paragraph 2 states that for the purposes of updating the ratios under paragraph 1, banks shall submit data required under Article 101 of Regulation (EU) No 575/2013 and in Annex VI and Annex VII of the Implementing technical standard for supervisory reporting, taking into account the percentages under paragraph 1.

## **V. ASSET – LIABILITY MANAGEMENT**

Substitution cover of mortgage-backed bonds from any issue may not exceed 30% of the total amount of liabilities of the issuing bank under that issue.

In making calculations under the previous paragraph for mortgage-backed bonds and assets constituting their cover denominated in different currencies, the official foreign exchange rate for the Bulgarian lev to the respective currency quoted by the Bulgarian National Bank of the day of the calculation shall apply.

A loan recorded in the register of the cover of mortgage-backed bonds from a particular issue may be repaid at any time by bonds of the same issue at their face value.

## **VI. TRANSPARENCY**

Banks (the only eligible issuers of mortgage bonds) produce regular reporting to Banking Supervision authority – Bulgarian National Bank (BNB) which according to article 3 of the DECISION (EU) 2020/1015 OF THE EUROPEAN CENTRAL BANK of 24 June 2020 on the establishment of close cooperation between the European Central Bank and Българска народна банка (Bulgarian National Bank) (ECB/2020/30), concerning the duty of cooperation in good faith and exchange of information, from the date of application of the Decision, the European Central Bank (ECB) and Bulgarian National Bank (BNB) shall be subject to a duty of cooperation in good faith and an obligation to exchange information on the basis of Article 6 (2) of Regulation (EU) No 1024/2013. The public banks are reporting issuers and disclose information to the regulated market – Bulgarian Stock Exchange (BSE), as well as to the Bulgarian Financial Supervision Commission (FSC).

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The cover pool is managed by the issuing bank which should have adopted the internal rules for maintaining it, the rules for access to the cover pool database and the regularity of the update of the cover.

Bulgarian National Bank carries out general assessment of the banks, including issued mortgage bonds, as part of general banking supervision and according to the DECISION (EU) 2020/1015 OF THE EUROPEAN CENTRAL BANK of 24 June 2020 on the establishment of close cooperation between the European Central Bank and Българска народна банка (Bulgarian National Bank) (ECB/2020/30).

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

After the record of the assets in the register as a cover of mortgage-backed bonds of a particular issue, those specific assets may be used as collateral solely for the liabilities of the issuing bank on that issue. The issuing bank may not allow any encumbrances on its assets constituting the cover of outstanding mortgage-backed bonds. The issuing bank accounts assets recorded in the register of mortgage-backed bonds cover separately from the rest of its assets.

The issuing bank shall keep a public register of the cover of mortgage-backed bonds issued by it. A register is kept separately for each mortgage-backed bond issue.

In case of bankruptcy of the issuing bank, the assets recorded in the register of mortgage-backed bonds covers, as of the date of declaring the bank bankrupt, shall not be included in the bankruptcy estate. Proceeds from the liquidation of assets recorded in the register as a cover on a particular issue of mortgage-backed bonds are distributed among the bondholders from that issue in proportion to the rights under their bond holdings. Any funds remaining after settling the claims under mortgage-backed bonds from a particular issue is included in the bankruptcy estate.

The asset pools under the above-mentioned paragraphs are managed by a holders' trustee of mortgage-backed bonds which is appointed by the bankruptcy court when it has been established that the bank has outstanding liabilities under mortgage-backed bonds. The trustee is managing the assets by individual mortgage-backed bonds issue.

The Trustee shall have the powers of an assignee in bankruptcy in respect of the asset pool described above, as well as in respect of any outstanding liabilities of the issuing bank under mortgage-backed bonds.

The Trustee shall manage the above-mentioned assets separately for any mortgage-backed bond issue. The Trustee shall sell the above-described assets under the procedure set forth in Articles 486-501 of the Civil Procedure Code and shall account any proceeds to an escrow account opened for each issue with commercial banks as determined by the Bulgarian National Bank. The Trustee shall publish in the State Gazette (*Darzhaven vestnik*) and in at least two national daily newspapers the place and time for the tender for the sale of assets under the procedures of previous sentence no later than one month prior to the date of the tender.

The bondholders of any issue of mortgage-backed bonds of a bank which has been declared bankrupt shall have the right to obligate the Trustee to sell loans included in the issue cover to a buyer specified by them and the Trustee shall follow precisely the decision of the Bondholders' General Meeting under the previous sentence.

The liabilities of the issuing bank under a mortgage-backed bonds issue shall be deemed repaid when the amount of outstanding principals of the sold loans becomes equal to the total amount of liabilities on principals and interest accrued on the bonds prior to the sales.

Under Article 66 paragraph 2 of the Law on the Recovery and Resolution of Credit Institutions and Investment Firms<sup>2</sup> it is foreseen that the resolution authority (the Bulgarian National Bank) shall not exercise its powers for a write-down or conversion in relation to the secured liabilities. These liabilities include mortgage-backed bonds within the meaning of the Law on Mortgage-Backed Bonds, covered bonds and liabilities in the form of financial instruments used for hedging purposes, which form an integral part of the coverage pool and which according to the applicable law are secured in a way similar to covered bonds, whether the liabilities are governed by the legislation of the Republic of Bulgaria, by the law of another Member State or by the law of a third country.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

### **Risk weighting**

Criteria for exposures secured by mortgages on immovable property are treated in Article 27 of Ordinance No. 7 of 24 April 2014 on organisation and risk management of banks<sup>3</sup>, adopted by the Bulgarian National Bank ("Ordinance 7"). This Ordinance contains provisions related to the exercise of national discretions by the Republic of Bulgaria under Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June

2 Law on the Recovery and Resolution of Credit Institutions and Investment Firms, published in State Gazette (*Darjaven Vestnik*) issue 62 of 14 August 2015, latest amended, issue 12 of 12 February 2021; effective from the first day of application of the Decision of the European Central Bank on the close cooperation in accordance with Article 7 of Council Regulation (EU) No. 1024/2013 of 15 October 2013 conferring specific tasks on the European Central Bank concerning policies relating to the prudential supervision of credit institutions; transposes Directive 2014/59/EC of the European Parliament and of the Council of 15 May 2014 establishing a framework for the recovery and resolution of credit institutions and investment firms and amending Council Directive 82/891/ EEC, and Directives 2001/24/EC, 2002/47/EC, 2004/25/EC, 2005/56/EC, 2007/36/EC, 2011/35/EU, 2012/30/EU and 2013/36/EU, and Regulations (EU) No 1093/2010 and (EU) No 648/2012, of the European Parliament and of the Council.

3 Issued by the Bulgarian National Bank; published in the *Darzhaven Vestnik* (State Gazette), Issue 40 of 13 May 2014, last amended by issue 11 of 9 February 2021. [http://www.bnbg.bg/bnbweb/groups/public/documents/bnb\\_law/regulations\\_risk\\_management\\_en.pdf](http://www.bnbg.bg/bnbweb/groups/public/documents/bnb_law/regulations_risk_management_en.pdf).

2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012 (OJ, L 176/1 of 27 June 2013), hereinafter Regulation (EU) No 575/2013, including the transitional provisions under Part Ten, Title I of Regulation (EU) No 575/2013 ("Regulation No 575/2013")<sup>4</sup>. Article 27(1) of Ordinance 7 states as regards the application of Article 124, paragraph 2 of Regulation (EU) No 575/2013:

1. The part of the exposure secured by mortgages on residential property that receives a risk weight of 35% shall not exceed 70% of the lower of the market and mortgage lending value of the property in question;
2. Part of the exposure secured by mortgages on commercial immovable property that receives a risk weight of 50% shall not exceed 50% of the lower of the market and mortgage lending value of the property in question.

For the purpose of updating the ratios mentioned in paragraph 1, banks shall submit data required under Article 101 of Regulation (EC) No 575/2013 and in Annex VI and Annex VII of the Implementing technical standard for supervisory reporting, taking into account the percentages under paragraph 1 above.

According to Article 29. (1) of Ordinance 7 which refers to Article 400, paragraph 2 of Regulation (EU) No 575/2013 in calculation of large exposures under Article 395 of Regulation (EU) No 575/2013, banks shall exempt legally required guarantees used when a mortgage loan financed by issuing mortgage bonds is paid to the mortgage borrower before the final registration of the mortgage in the land register, provided the guarantee is not used as reducing the risk in calculating the risk-weighted exposure amounts. According to article 29 (2) (3) in calculation of the large exposures under Article 395 of Regulation (EU) No 575/2013, banks shall include 20% of the following exposures: covered bonds falling within the terms of Article 129, paragraphs 1, 3 and 5 of Regulation (EU) No 575/2013. According to article 29 (5) in applying the exemptions, banks shall monitor compliance with the requirements of this Article and Article 400, paragraph 3 of Regulation (EU) No 575/2013. The Bulgarian National Bank may at any time carry out a check on compliance with this Article and require information evidencing the compliance.

#### **Compliance with European Legislation**

The Mortgage-backed Bonds Law is compliant with the requirements of Article 52(4) of Directive 2009/65/ EC (the UCITS Directive). The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 of the Capital Requirements Regulation (CRR).<sup>5</sup>

#### **X. ADDITIONAL INFORMATION**

##### **Minimum information requirements for issuance prospectuses**

The Bulgarian Supervision Commission pronounces on the application for approval of a prospectus for mortgage-backed bonds as per the requirement of the Public Offering of Securities Act (POSA). The draft prospectus must contain data valid at the time of their preparation, such as:

- > The Rules of the issuing bank concerning the contents, the entry and deletion procedures as well as the terms and procedures authorising access to the register and its internal rules of conducting and documenting mortgage appraisals;
- > Data on mortgage loans held in the issuing bank's portfolio on the basis of which an issue is being made, including for each loan:
  - a) The size of the outstanding principal at the time of extending the loan and by the end of the most recent full quarter;

4 Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012.

6 Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012. Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

- b) Loan life at the time of extending the loan and the remaining term to maturity;
  - c) Interest rates, fees and commissions on the loan;
  - d) Risk classification of the loan by the end of each calendar year from the time it was extended and by the end of the most recent full quarter;
  - e) Type of real estate mortgaged as collateral, their mortgage appraisal value and the ratio between the outstanding principal and the mortgage appraisal value at the time of extending the loan and by the end of the most recent full quarter;
- > Characteristics of the mortgage loan portfolio on the basis of which the issue is made, including a distribution of loans by:
- a) The size of the outstanding principal;
  - b) The residual term to the final repayment of the loan;
  - c) Interest rate level;
  - d) Their risk classification by the end of the most recent full quarter; and
  - e) The ratio between the outstanding principal and the most recent mortgage appraisal value of the real estate pledged as collateral.

In public offerings of mortgage-backed bonds the provisions of the Public Offering of Securities Act (POSA) and the Ordinances on its enactment shall apply. In non-public offerings of mortgage-backed bonds the provisions of Commerce Law shall apply.

#### **Bulgarian mortgage bond market information**

Since the adoption of the Bulgarian Law on Mortgage-backed Bonds in 2000 there were in total 29 mortgage bond issues in Bulgaria. The last mortgage bond issued was in 2014. The volume of issued mortgage-backed bonds totals EUR 273.3 mn originated by 11 issuing banks (currently 9 banks after the merger of MKB Union-bank with First Investment Bank and the merger of United Bulgarian Bank with Economic & Investment Bank). As of 31 December 2019, there is no mortgage bonds outstanding.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/72/Bulgarian\\_Covered\\_Bonds](https://www.ecbc.eu/framework/72/Bulgarian_Covered_Bonds)

### **3.7 CANADA**

By Lily Shum, Canada Mortgage and Housing Corporation (CMHC)

#### **I. FRAMEWORK**

From 2007 until 2012, Canadian covered bonds were issued pursuant to a contractual framework. In June 2012, Canada implemented dedicated covered bond legislation with the amendment of the National Housing Act<sup>1</sup>, making Canada Mortgage and Housing Corporation (CMHC) responsible for administering the legal framework for covered bonds. In December 2012, CMHC implemented the legal framework and published the Canadian Registered Covered Bond Program Guide (CMHC Guide) which prescribes detailed requirements for registered issuers and programmes.<sup>2</sup> The NHA and the CMHC Guide together form the legal framework for Canadian registered covered bonds. The legal framework provides statutory protection for covered bond investors, prescribes eligible issuers, programmes and cover pool collateral, and establishes a high standard of disclosure.

Since 2013, all new Canadian covered bond issuance has occurred as “registered” covered bonds issued under the legal framework. In order for an issuer to be able to issue registered covered bonds, issuers must submit applications to CMHC to obtain registered issuer and registered programme status. Issuers and programmes that meet the minimum requirements and are approved by CMHC are added to the Canadian Covered Bonds Registry maintained by CMHC. CMHC has the power to suspend a registered issuer’s right to issue further registered covered bonds.

All of the current Canadian covered bond issuers, except for one issuer regulated by the Quebec Autorité des marchés financiers (AMF), are regulated by the Office of the Superintendent of Financial Institutions (OSFI) that regulates Canadian federally incorporated financial institutions. Beginning in August 2019, the OSFI required that total assets pledged for covered bonds must not, at any time, represent more than 5.5% of a deposit-taking institution’s total on balance assets.

#### **II. STRUCTURE OF THE ISSUER**

Only banks, trust and loan companies, cooperative credit associations and insurance companies in Canada are eligible to register as issuers under the Canadian covered bonds legislative framework with the approval of CMHC. CMHC’s approval is contingent upon fulfilling the minimum legal requirements set out in the CMHC Covered Bonds Guide. The framework requires that at least one rating agency provide current ratings at all times for at least one series or tranche of covered bonds outstanding.

Canadian registered covered bonds are direct obligations of the issuer. In addition, in the event of issuer insolvency or default, investors have a claim over the pool of cover assets. The cover assets are held in a bankruptcy-remote special-purpose guarantor entity, which provides an irrevocable guarantee in respect of interest and principal payments due and payable under the covered bonds that would otherwise be unpaid by the respective issuer. In Canada, the guarantor may be set up as a Limited Liability Partnership (LLP) or a trust. To date, all registered programs have used an LLP as the guarantor entity. A bond trustee (which has to be arm’s length and bankruptcy remote from the issuer) must be designated to represent the views and interests (and enforce the rights) of covered bond holders.

Cover assets are segregated from the issuer through a contractual true sale of the mortgage loans to the guarantor entity. However, registered legal title to the mortgage collateral typically remains with the issuer or lender from which they are purchased by the guarantor until the earliest to occur of: (1) material breach or default by the issuer; (2) impending or actual issuer insolvency; (3) material breach or default by the servicer of eligible loans; or (4) any other event as prescribed in the issuer’s transaction documents. Each registered issuer must engage an

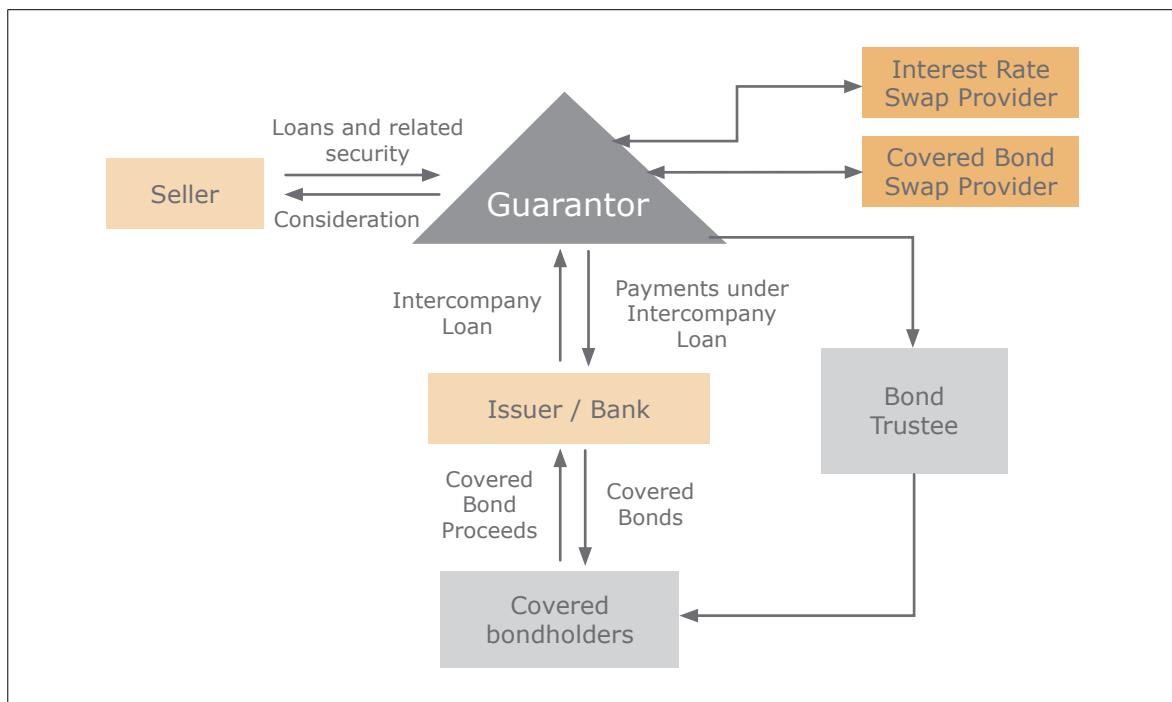
1 See National Housing Act R.S.C., 1985, c. N-11.

2 See CMHC’s Canadian Registered Covered Bond Programs Guide ([www.cmhc-schl.gc.ca](http://www.cmhc-schl.gc.ca)).

arm's length bankruptcy-remote custodian with appropriate systems and knowledge of handling mortgages. The issuer must provide the custodian with the details of eligible and substitute assets, and quarterly updates thereof.

An intercompany loan is provided by the issuer to the guarantor. The guarantor uses the proceeds from the intercompany loan to acquire all rights, title, interests in and certain records related to a specific pool of mortgage loans originated by the seller. The intercompany loan, denominated in Canadian dollars, is comprised of a guarantee loan and demand loan. The guarantee loan amount must be equal to the sum of the Canadian-dollar amount of all covered bonds outstanding and the overcollateralisation required for the Asset Coverage Test to be met at all times. The demand loan is a revolving credit facility equal to the difference between the intercompany loan and the guarantee loan. The Guarantor enters into swaps or collateral hedges to minimise interest rate and FX mismatches (see section V – Asset-Liability Management).

> FIGURE 1: GENERAL COVERED BOND STRUCTURE



Source: CMHC

### III. COVER ASSETS

Eligible assets for Canadian registered covered bonds are:

- > Eligible loans, comprised of Canadian residential loans on properties with 1-4 units that:
  - are not insured against borrower default;
  - are first ranking mortgages;
  - have a maximum 80% loan-to-value (LTV);
  - are not in arrears at the time of transfer to the Guarantor and have had at least one payment made (of principal or interest) in accordance with the terms of the loan;
  - are not the subject of any dispute, proceeding, set-off, counterclaim or defence;

- are not subject to a right of set-off by the borrower (and since July 2014, must include an express waiver of set-off); and
  - are originated by the issuer or otherwise comply with its underwriting policies.
- > Substitute assets up to the prescribed limit (10%) of total value of cover pool assets. They must be Canadian government bonds or other prescribed assets.
- > Cash in an amount not exceeding the amount necessary to satisfy the guarantor entity's payment obligations for the next six months.

Where the mortgage securing an eligible loan also secures other indebtedness, such other indebtedness must (I) be owned by the same lender, (ii) be the subject of a release of security and (iii) have the benefit of a cross default provision with the eligible loan that is enforceable against the borrower. Only eligible loans may be transferred to the guarantor. Any loan that did not meet the eligibility requirements at the time of transfer must be repurchased by the issuer.

#### **IV. VALUATION AND LTV CRITERIA**

As noted above, the maximum LTV at the time of transfer of a loan to the guarantor is 80%. In Canada, prudential regulators require property values to be assessed during the underwriting process prior to making a mortgage loan. Property valuation is either performed by an accredited third-party property appraiser or an independently maintained valuation/risking model is used to assess the stated property value based on similar properties recently sold in the same area. Effective July 2014, property values must be indexed at least on a quarterly basis for the purposes of valuing the covered bond collateral. The indexation methodology for a covered bond programme is disclosed to investors in the covered bond programme prospectus and must be in line with any regulatory requirement.

#### **V. ASSET – LIABILITY MANAGEMENT**

##### **Overcollateralisation and Coverage Tests**

Within covered bond programmes, there is an inherent liquidity mismatch due to the bullet payment nature of the covered bonds and the cash flows generated from the cover assets. Following a default by the issuer, the principal cash flows generated from the cover assets may not be sufficient to ensure timely repayment of the outstanding covered bonds. To mitigate this credit and liquidity risk, the covered bond framework requires issuers to establish a contractual minimum and maximum level of overcollateralisation by adopting a minimum and maximum value for the Asset Percentage (AP) used to discount mortgage loans in the cover pool as part of the Asset Coverage Test (described below). The CMHC Guide also stipulates that cover pool collateral assets shall be at least 103% of the outstanding Canadian dollar equivalent nominal amount of covered bonds secured at all times. As with market practice in other jurisdictions, issuers tend to maintain an OC level higher than the regulatory minimum OC level required.

Typical of SPV structures, Canadian issuers must meet the following tests:

- > **Asset Coverage Test (ACT)**: Conducted on a monthly basis, the ACT ensures that sufficient assets are available to cover the outstanding amount of covered bonds plus a level of OC. An asset monitor also tests the accuracy of the ACT calculation yearly, or more frequently under specific circumstances.
- > **Valuation Test (VT)**: Conducted on a monthly basis, the VT ensures a covered bond programme's exposure to market risk (namely, volatility in interest rates and currency exchange rates) is monitored. The VT measures the present value to the covered bond collateral relative to the Canadian dollar equivalent of the market value of the outstanding covered bonds guaranteed by it.

- > Pre-Maturity Test (PMT): Covered bonds may be issued with an Extended Due Date for payment ("soft bullet"), or as ("hard-bullet") covered bonds that are not extendible. In respect to hard-bullet covered bonds, at programme specific ratings' triggers, the PMT ensures that the covered bond collateral includes sufficient cash to meet in full all principal payments due under the maturing hard-bullet series covered bonds (together with all other payment obligations ranking in priority) for a period prescribed in the transaction documents of the specific programme.
- > Amortisation Test (AT): Following an issuer event of default, the AT ensures that the notional value of cover assets is at least equal to the outstanding Canadian Dollar equivalent covered bonds principal.

### **Covered Bond Collateral Hedges and Ratings Triggers**

Furthermore, the issuer is required to have in place covered bond collateral hedges for the guarantor at the time of each transfer of covered bond collateral or covered bond issue in order to minimise interest rate or FX mismatches which may include contingent covered bond collateral hedges, which become effective, e.g., in case of an event of default of the registered issuer. The guarantor carries out monthly valuations to assess market risks (see above). Hedging counterparties must meet the counterparty requirements set out in the CMHC Guide, including minimum standards established by rating agencies. The terms of each transaction document must explicitly state that the guarantor may replace a specific counterparty upon rating triggers or in case of an event of default of the registered issuer. CMHC must be informed of counterparty replacement, termination or resignation. Swap counterparties rank pari passu with covered bondholders prior to issuer default.

The framework requires a rating trigger for the establishment of a cash reserve for the benefit of the guarantor sufficient to meet in full all interest payments due on outstanding covered bonds for a period of time specified by the issuer in its transaction documents together with all payment obligations of the guarantor entity ranking prior to such interest payments. It is retained in a bank account and, following an issuer event of default, the balance of the cash reserve forms part of available revenue receipts to be used by the guarantor to meet its obligations under the covered bond guarantee.

### **VI. TRANSPARENCY**

The Canadian covered bond legal framework is prescriptive and comprehensive in terms of information disclosure and reporting frequency. All material information and transaction documents related to a registered issuer and covered bond programme must be accessible on an ongoing basis, mainly through a dedicated website set up by the issuer. A monthly report must be prepared within 15 business days following the end of each month and include detailed information on the covered bond programme.

As of April 2021, eight Canadian covered bond issuers had joined ECBC Covered Bond Label and published its Harmonised Transparency Template (HTT).

### **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

In Canada, federal financial institutions are prudentially regulated by OSFI. Provincially regulated financial institutions are subject to prudential regulation by the applicable provincial entity, including, in the case of provincially regulated issuers in Quebec, the AMF.

CMHC takes the lead role in assessing and monitoring compliance with the Canadian legal covered bond framework requirements. A registered issuer shall deliver to CMHC a certificate signed by the issuer's executive officer attesting that the Issuer has complied with the requirements of the Canadian covered bonds legal framework. Notification to CMHC of material change to an issuer's registered covered bond program or terms of covered bonds is required. Registered issuers must also provide immediate notice to the CMHC in case of: (1) a failed ACT and/or AT; (2) awareness of a rating downgrade/ withdrawal/trigger; (3) a breach or default under the terms of the covered bond programme; and (4) breach or default under the covered bonds legal framework.

Issuers are required to appoint an independent third party cover pool monitor (CPM) with adequate qualifications. The responsibilities of the CPM consist of ensuring the accuracy of the records regarding the cover pool and of the required tests particularly the Asset Coverage Test. Issuers are required to make available all information needed by the CPM. Following issuer insolvency, the CPM remains in place for the benefit of the guarantor.

#### **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The guarantor is structured as a bankruptcy-remote, special-purpose entity and, as such, following insolvency of the issuer, all the assets of the guarantor are segregated from those of the bankrupt estate of the issuer. Covered bond holders shall retain a claim against the issuer for any deficiency in the repayment of all principal, interest and other amounts owing thereunder, and such covered bond holders shall rank pari passu with the ordinary depositors of the issuer.

- > Upon an issuer event of default, the guarantor is required to meet the covered bond obligations using the cash flows generated from the cover assets. In case of insufficient cash, the guarantor is permitted to sell the cover assets, find alternative funding or enter repos. The entire pool of cover assets is available as security for all the outstanding covered bonds issued under the programme, so there is no direct link between particular assets and a specific series of covered bonds.
- > Upon a guarantor event of default, covered bonds accelerate. Preferential rights are limited to the guarantor's assets. Payments are made in accordance with the applicable order of priority.

An issuer or guarantor event of default include at a minimum (other events maybe prescribed in the documentation) the following: (1) impending or actual insolvency; (2) failure to pay principal, interest or any other amount due under the covered bond programme when due; (3) failure to comply with the remedial action following a rating trigger; and (4) failure to meet the AT by a guarantor on a calculation date. An issuer's transaction documents can provide a remedy period of up to 10 business days for a failure to pay principal, and up to 30 days for failure to pay interest or other payment under the covered bonds.

In April 2018, the Government of Canada published the Bank Recapitalisation (Bail-in) Conversion Regulations, SOR/2018-57, under the Bank Act and CDIC Act (Bail-in Regulations). The Bail-in Regulations specify the prescribed shares and liabilities that are eligible for bail-in conversion and their conversion terms. Covered bonds are specifically excluded from prescribed liabilities under the bail-in regulations. Similarly, the AMF has excluded covered bonds from the prescribed debts eligible for conversion as part of the recapitalization of a Quebec-regulated domestic systemically important financial institution in its Regulation Respecting The Classes Of Negotiable And Transferable Unsecured Debts And The Issuance Of Such Debts And Of Shares published on March 29, 2019 and effective March 31, 2019 pursuant to section 40.50 of the Quebec Deposit Institutions and Deposit Protection Act (chapter A-26).

#### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Canadian regulated covered bonds may be eligible to be used as liquid assets (Level 2A) under the European Union's implementation of the Basel liquidity coverage ratio requirements provided for in the Capital Requirements Regulation (EU) No 575/2013 (CRR), as supplemented by the Liquidity Coverage Requirement Delegated Regulation 2015/61 (EU LCR), provided that they are rated ECAI 1 or otherwise assigned a 10% risk weight under Article 129 of the EU CRR and they otherwise comply with the requirements set out in the EU LCR. Canadian regulated covered bonds may be eligible for the same risk-weighting as unsecured bank debt for purposes of calculating regulatory capital ratios under Article 120 or 121 of the CRR. If denominated in euro, Canadian covered bonds may be eligible for European Central Bank repo operations as a haircut category III asset pursuant to European Central Bank Guidelines 2015/510 and 2016/65 on the implementation of the Eurosystem monetary policy framework. Valuation haircuts are generally based on credit quality, residual maturity and

coupon structure of the covered bond. Canadian covered bonds are subject to the same spread risk factors and concentration thresholds as unsecured bonds or loans pursuant to Articles 176 and 185 of delegated regulation (EU) 2015/35 implementing the EU's Solvency II directive 2009/138/EC (Solvency II).

Canadian covered bonds are not UCITS 5(4)-compliant because Canadian issuers do not have their registered head office in an EU state and Canadian covered bonds are not issued in accordance with the provisions of a national law transposing the mandatory requirements of the European Union's covered bond directive (EU) 2019/2162. Therefore, they do not benefit from the more preferential risk weighting under Article 129(4) and (5) of CRR, and are not eligible for the preferential risk factors and concentration thresholds in Articles 180(1) and 187(1) of Solvency II.

Third country covered bonds, including Canadian covered bonds, do not benefit from the preferential risk weighting under the European Union's covered bond directive.

## **X. ADDITIONAL INFORMATION**

### **X.1. Eligible for Level 2A assets under Canada's implementation of Basel's Liquidity Coverage Ratio (LCR) and treatment under Bank of Canada programs**

Covered bonds that are issued and owned by a bank or mortgage institution, and are subject by law to special public supervision designed to protect bond holders (i.e. the dedicated covered bond legislation under the National Housing Act administered by CMHC, which came into force on 6 July 2012) may be included as Level 2A assets for the LCR, provided they satisfy the following conditions:

- > Not issued by the institution itself or any of its affiliated entities;
- > Either (i) have a long-term credit rating from a recognised external credit assessment institution (ECAI) of at least AA- or in the absence of a long-term rating, a short-term rating equivalent in quality to the long-term rating; or (ii) do not have a credit assessment by a recognised ECAI but are internally rated as having a probability of default (PD) corresponding to a credit rating of at least AA- (and, in the event of split ratings, the applicable rating should be determined according to the method used in Basel II's Standardised Approach for credit risk, and local rating scales (rather than international ratings) of a supervisor-approved ECAI that meet the eligibility criteria outlined in paragraph 91 of the Basel II Capital Framework can be recognised if covered bonds are held by an institution for local currency liquidity needs arising from its operations in that local jurisdiction);
- > Traded in large, deep and active repo or cash markets characterised by a low level of concentration; and
- > Have a proven record as a reliable source of liquidity in the markets (repo or sale) even during stressed market conditions: i.e. maximum decline of price or increase in haircut over a 30-day period during a relevant period of significant liquidity stress not exceeding 10%.

Also, OSFI considers that covered bonds issued by Canadian institutions prior to the Canadian covered bond legislation coming into force on 6 July 2012 may be included as Level 2A assets if they meet the above conditions.

Eligible covered bonds may be used as collateral under the Bank of Canada's (BoC) Standing Liquidity Facility, and the Standing Term Liquidity Facility. Eligible covered bonds are those that are compliant with the federal legislative framework for covered bonds, and of sufficiently high quality as determined by BoC (which is considered to be broadly equivalent to a rating of AAA). The combined amount of covered bonds, term ABS and ABCP originated or sponsored by a single institution pledged by a Large Value Transfer System (LVTS) participant cannot be more than 5% of the total value of all the collateral pledged by that participant (but this condition does not apply for borrowings of less than \$10 million). BoC announced temporary expansion for its Term Repo Operations eligible securities by including covered bonds (including own-name covered bonds) from March to October 2020.

## X.2. Market Overview

Canadian banks remain key participants in international covered bond markets, issuing opportunistically in the CAD, EUR, USD, GBP, CHF, and AUD markets upon favourable basis swaps and strong market technicals.

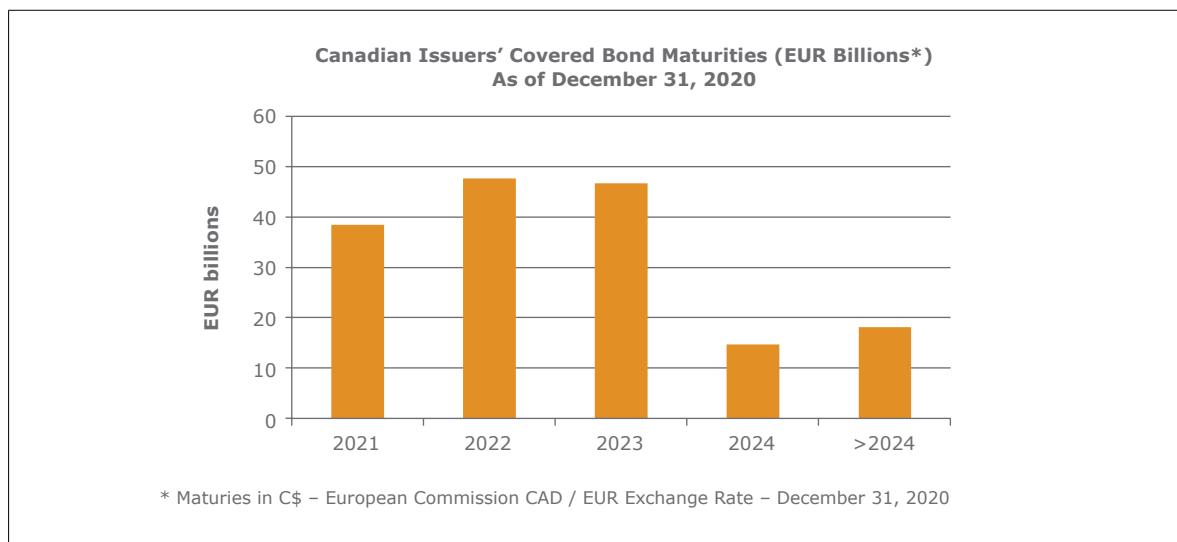
FIGURE 2: CANADIAN BANKS' COVERED BOND ISSUANCE

At 31 December 2020 (C\$ bn)	BMO	BNS	FCDQ	CIBC	HSBC	NBC	RBC	TD	Total
OSFI 5.5% covered bond encumbrance limit	52.2	62.5	16.7	42.3	6.5	18.2	89.4	94.4	382.2
Outstanding covered bonds	27.3	59.6	10.1	26.5	5.2	12.5	68.5	49.3	258.9
OSFI Covered Bond Ratio Limit	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	5.5%	
**Covered Bond Ratio (%)	3.2%	2.5%	2.3%	3.1%	2.4%	3.7%	2.9%	2.9%	
<b>Remaining encumbrance capacity</b>	<b>2.3%</b>	<b>3.0%</b>	<b>3.2%</b>	<b>2.4%</b>	<b>3.1%</b>	<b>1.8%</b>	<b>2.6%</b>	<b>2.6%</b>	

Source: CMHC

\*\* Covered Bond Ratio refers to total assets pledged for covered bonds relative to total on-balance sheet assets.

> FIGURE 3: CANADIAN ISSUERS' COVERED BOND REDEMPTIONS (AS OF 31 DECEMBER 2020, EUR BN)



Source: CMHC

**Issuers:** Royal Bank of Canada (RBC), Bank of Montreal (BMO), Bank of Nova Scotia (BNS), Canadian Imperial Bank of Commerce (CIBC), Fédération des Caisses Desjardins du Québec(FCDQ), National Bank of Canada (NBC), Toronto Dominion Bank (TD), HSBC Bank Canada.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/12/Canadian\\_Covered\\_Bonds](https://www.ecbc.eu/framework/12/Canadian_Covered_Bonds)

 **COVERED BOND LABEL** : Royal Bank of Canada (1 pool), The Toronto-Dominion Bank (1 pool), The Bank of Nova Scotia (1 pool), Fédération des caisses Desjardins du Québec (1 pool), National Bank of Canada (1 pool), Canadian Imperial Bank of Commerce (1 pool), Bank of Montreal (1 pool).



### **3.8 CHILE**

By Danilo Castañeda, Camila Herrera and Sindy Olea, Banco Santander Chile

#### **I. FRAMEWORK**

The legal framework for Chilean covered bonds (*Bonos Hipotecarios*, also BHs) is determined by:

- > The General Banking Law (Ley General de Bancos, LGB): Article 69, nº2, BH issuances; and Articles 125, 126 and 134, special treatment of banking entities under bankruptcy.
- > The Chilean Central Bank: Financial Regulation Compendium (*Compendio de Normas Financieras*, CNF), Chapter II.A.2, Chilean Central Bank complementary rules.
- > Superintendence of Banks (*Superintendencia de Bancos e Instituciones Financieras*, SBIF) today Financial Market Commission (*Comisión para el Mercado Financiero*, CMF): *Recopilación Actualizada de Normas* (RAN), Chapter 9-2, Complementary rules of the Chilean banking regulatory agency.

In 2010, Law 20.448 – also called MKIII, the third reform to the Capital Markets Law – introduced a series of changes in terms of liquidity, innovation and integration of the capital markets. Among them was the amendment of Article 69, nº2 of the LGB which enabled banks to issue bonds with no special guarantees, called BHs. These securities are specific aimed to raise funds for the origination of mortgage loans (*mutuos hipotecarios*) used to finance the acquisition, construction, reparation or extension of residential properties. Only residential mortgages for these purposes are accepted as collateral, excluding commercial, public or other types of loans. An additional restriction imposed to defi an eligible mortgage is that only new mortgages are accepted. Hence, a maximum time limit of 18 months was set for the origination of eligible loans since the date of the BH's issuance. Thus, BH bonds also have an anticipated rescue clause for a proportional prepayment of the bond in case of insufficient origination. The issuer has the fly of an additional one-month period to incorporate new mortgage loans of the same nature and quality to comply with the cover asset limit and balance principle at the end of these 18 months allocation period and at the end of each month along the life of the bond.

Under an eventual credit event/default of an issuer, Articles 125, 126 and 134 of the LGB give BHs the same treatment and current legal status as that of outstanding *Letras Hipotecarias* (LH), a type of mortgage bond frequently used by Chilean banks in the past to finance their mortgage business. These articles regulate the procedures in such case and the mechanisms for the tender process and subsequent transference of eligible loans/assets and liabilities from the defaulted issuer to a new entity.

In September 2012, a new regulation was published in a joint statement by the Chilean Central Bank and the SBIF, describing BHs as a new source of long-term funding for banking entities, thus allowing better conditions for clients as well as a new investment alternative for institutional investors. At the same time, it explicitly incorporated a prudential regulation associated with financial stability objectives. In particular, it stated the obligation of periodic reporting of both bonds and loans, the definition of certain credit indicator limits, specific policies to grant loans and other transparency objectives for the benefit of both clients and investors.

In January 2019 a new Banking Law was published and included a new restriction regarding mortgages eligibility. This new law established that loans granted by the issuer within a timeframe of twelve months prior to the issuance of the BH will be accepted as eligible collateral.

Chapter II.A.2 of the CNF regulates issues related with eligible loans, as well as investments in fixed income securities as substitute collateral since the date of issuance during the period of loan origination, specifying limits for compliance during the whole life of the bond.

The SBIF's RAN mainly regulates the issuance of BHs, the relationship between bonds and loans, and the establishment of a special Register for further control which includes detailed up-to-date information to comply with transparency and monthly reporting objectives.

## **II. STRUCTURE OF THE ISSUER**

Under current legislation only banking entities are allowed to issue *Bonos Hipotecarios*. Cover assets are held within the balance sheet with the proper internal controls to monitor the cover pool and its relationship with its related bond ratios and limits over time.

Banco Santander Chile issued the first ever local covered bond (Bono Hipotecario). The first covered bond programme was for a total amount of UF 3 Million (approx. USD 134 million), the first issuance out of the programme was in 1 August 2013 for a total amount of UF 1.5 MM (approx. USD 68 million) and then the second one was in 20 November 2013. Both issuances generated a great appetite from local investors and the result was a spread of 15 bps lower than the senior unsecured debt outstanding. In 2014 Banco Santander Chile successfully registered a second covered bond programme for a total amount of UF 5 million and issued an amount of UF 1.5 million in September 2014.

As of 31 December 2020, Santander Chile is still the only active issuer of covered bonds in the Chilean market.

## **III. COVER ASSETS**

Regulation states that issuers can consider eligible mortgages already granted within a timeframe of twelve months prior the bond's date of issuance to allocate the resources to the origination of mortgages. After that period, at the end of each month during the life of the BH, the outstanding balance of mortgages, excluding amounts in arrears, should not be lower than 90% of the outstanding balance of the respective bonds. Any difference between the outstanding amounts of the mortgages and the bonds must be covered by high credit quality fixed income instruments.

FIGURE 1: FIXED INCOME SUBSTITUTE COLLATERAL: MINIMUM 80% IN SOVEREIGN BONDS (CATEGORIES: I. AND II.)

<b>I.</b>	Sovereign bonds	Fixed income instruments issued by Chilean Central Bank.
<b>II.</b>	Sovereign bonds	Fixed income instruments issued by Chilean Treasury.
<b>III.</b>	Corporate bonds	Local Corporate bonds rated AA+ or higher (by at least two rating agencies). Sublimit of up to 10% of the total of funds by each <i>Bono Hipotecario</i> issuance.
<b>IV.</b>	Bonos Hipotecarios	<i>Bonos Hipotecarios</i> issued by other banking entities.
<b>V.</b>	Term deposits	Term deposits originated by high rated banks established in Chile, excluding those of the issuer of the covered bonds.
<b>VI.</b>	LCH	Housing LH: <i>Letras De Crédito Hipotecario</i> issued for housing purposes by other banking entities.
<b>VII.</b>	Unsecured bank bonds	Unsecured bank bonds rated AA+ or higher (by at least two rating agencies), excluding those of own issuance.

Source: Chilean Central Bank, Banco Santander Chile

## **IV. VALUATION AND LTV CRITERIA**

Eligible loans are only accepted as collateral for the corresponding issued bond once the accredited third-party property appraiser has finished the valuation process and after it has been registered at the corresponding CBR (*Conservador de Bienes Raíces*) – the local entities that certify legal dominion of properties.

The minimum loan-to-value (LTV) defined by law is 80%. Conditions for valuation are also subject to performing or non-performing status of loans. The maximum accepted number of arrears of any single loan in the pool is 10. Above that, the loan must be replaced with a new one of the same nature. As explained before for the cover-to-bond outstanding balance ratio, all amounts in arrears are excluded.

LTV alone is not enough for eligibility of mortgage loans. In addition, a maximum debt-to-income ratio of 25% is demanded.

#### **V. ASSET – LIABILITY MANAGEMENT**

Current legislation does not prescribe overcollateralisation for the issuance of BHs.

Under a balance principle the nominal amount of cover assets must always be at least equal to the outstanding amount of related *Bonos Hipotecarios* and loans in arrears or prepaid should be replaced always under the restriction that only new mortgages are potentially eligible as collateral for BHs.

Banks are free to structure the covered bonds according to their own needs and criteria. Banco Santander's first programme bond was a 15-year amortising structure reflecting the expected amortisation schedule of the underlying loan portfolio adjusted by the empirical loan prepayment rate. The second registered bond programme was an 18-year amortising structure reflecting the expected amortisation schedule and the empirical prepayment rate of the new loan portfolio.

#### **VI. TRANSPARENCY**

Current regulation includes a prudential approach associated with financial stability objectives: mandatory monthly reports of assets and liabilities in the Register and compliance of required ratios; a specific Credit Policy for mortgage eligibility which must be approved by the Board of Directors and published on the issuer's webpage; and client's LTV and debt-to-income ratios reported in a monthly basis.

#### **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Article 69, nº2 of the LGB mandates banks to maintain a special mortgage register (*Registro de Mutuos Hipotecarios*) for the identification and control of the relation between mortgages and their respective BH issuances.

SBIF's RAN 9.2, nº5, sets conditions for inscription of mortgages on the Register and the required information including: identification of bond issuance and loans; dates of inscriptions; original and substitute loans; identification of fixed income assets held as substitute collateral; and elimination from the register by number of arrears or property value deterioration.

Central Bank's CNF Chapter II.A.2, nº18, within its explicit transparency and information objectives, details monthly reporting data including: up-to-date average debt-to-income ratios of clients with eligible loans for each series of BH issuances; average value of properties linked to BHs at the date the credit was granted; LTV of the pool updated by loan replacements; loan characteristics (maturity, interest rates, fixed, floating or mixed type, currency denomination, inflation link mechanism and loan prepayment conditions); outstanding balances of loan portfolios and associated BH issuances and, finally, the total amount of fixed income assets and its general characteristics.

#### **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

There are 2 main issues related with bankruptcy in the BH legislation:

- 1) Since only new loans are accepted as collateral, this avoids the possibility of structuring BHs with a selection of the best quality assets which could be against the interests of other creditors such as depositors in case of bankruptcy.
- 2) In the case of bankruptcy, a special procedure in the way of a separated auction or tender process is triggered for those assets and liabilities clearly identified and associated with BHs in the Register. Eligible bidders are other public or private financial institutions, and the final buyer must take care of BH payments. This process is thoroughly covered in the LGB, same as for Letras de Crédito Hipotecarias (LH).

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Chile is not a member of the European Union. Therefore, Chilean BHs are issued under the existence of a specific country legislation – which is a requirement for these matters – no special treatment or benefit is granted in terms of preferred risk-weighting for regulatory capital purposes.

## **X. ADDITIONAL INFORMATION**

In a clear intent to provide these Bonds with more liquidity the Chilean Central Bank announced on the 28 March 2013 a special Repo programme ("Repo BH") which accepts exclusively BHs as collateral. The Repo BH is offered for up to 14 days at a floating rate equivalent to the current monetary policy rate (MPR) of each day plus 25 basis points. Eligible BHs will be subject to the credit rating of the BH issuer banking entity which must be in AAA, AA or A.

On top of this, on July 2015 the SBIF announced a change in the regulation for Liquidity Management. This amendment introduces the compulsory measurement and reporting of the Liquidity Coverage Ratio and the Net Stable Funding Ratio. This local LCR ratio recognises BHs as high-quality liquid assets, which could promote the appetite of financial institutions for this asset class.

On an additional attempt to promote the issuance of this type of instruments, the SBIF announced on the 31 January 2017 an amendment on Chapter 9-2, nº5.1 of the RAN, allowing mortgage loans issued before the bond's date of issuance to be eligible for the cover pool as long as they were granted after the beginning of the interest accrual period stated in the amortisation schedule of such bond and after the registration certificate of such bond is published by the issuer in its website. The main objective of this amendment is to make the cover pool easier to build in the 18-month time limit after the date of issuance of the BH.

Despite these incentives, there have not been BHs issuances in the Chilean market other than the ones placed by Santander Chile. This lack of activity can be explained by the fact that the more relevant Chilean issuers already have the maximum credit risk rating (AAA), and therefore the double recourse guarantee provided by the BHs is currently not as valuable for the potential investors, specifically for banks, given that it does not provide an advantage in terms of capital consumption compared to standard corporate bonds.

Additionally, on 12 January 2019 a new Banking Law was published to start the process of transitioning into Basel III. In 2020, a new regulation about capital requirements entered in vigor affecting the BHs, among various other topics. In the calculation of the risk weighted assets there was a decrease in the weighting of BHs to 10% from 20% for AAA issuers. At the same time, this weighting is lower for BHs than a senior corporate bond.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/113/Bonos\\_Hipotecarios\\_%28BH%29\\_-\\_Chilean\\_Covered\\_Bonds](https://www.ecbc.eu/framework/113/Bonos_Hipotecarios_%28BH%29_-_Chilean_Covered_Bonds)

### **3.9 CYPRUS**

By Christina Kypri-Georgiadou, Bank of Cyprus

#### **I. FRAMEWORK**

Cyprus first introduced the covered bond legislation in December 2010. The primary legislation governing the issuance of covered bonds (*Kalimmena Axiografa*) is the Covered Bond Law of 2010, (130 (I)/2010), which came into force on December 23, 2010 (the "Law").

On the same day, the CBC issued a Directive (526/2010) under the provisions of the Law, which constitutes the regulatory framework for the issue of covered bonds (the "Directive").

The Law and the Directive (the "Cypriot Legal Framework") are further supplemented by other laws (e.g. the Bankruptcy Law, the Banking Business Law, the Companies Law etc.) as referenced by the Law.

The Cypriot Legal Framework has been finalized in consultation with and following the positive opinion of the ECB, dated 14 October 2010 and 23 March 2011 related links are:

[http://www.ecb.int/ecb/legal/pdf/en\\_con\\_2011\\_27\\_f\\_sign.pdf](http://www.ecb.int/ecb/legal/pdf/en_con_2011_27_f_sign.pdf) and  
[http://www.ecb.int/ecb/legal/pdf/en\\_con\\_2010\\_73\\_f\\_sign.pdf](http://www.ecb.int/ecb/legal/pdf/en_con_2010_73_f_sign.pdf).

A draft legislation is currently submitted to the Cyprus Parliament aiming to align the current legislation with the Directive (EU) 2019/2162 of the European Parliament and of the Council 27 November 2019 on the issue of covered bonds and covered bond public supervision and amending Directives 2009/65/EC and 2014/59/EU.

#### **II. STRUCTURE OF THE ISSUER**

Under the Cypriot Legal Framework, Credit Institutions which have been approved by the Competent Authority (i.e. the CBC or the CSSDA), are only allowed to issue covered bonds using the direct issuance route.

Credit Institutions are defined, under the Law, to be:

- > Banks (as defined in the Banking Laws);
- > Cooperative Credit Institutions (as defined in the Cooperative Societies Law); and
- > The Housing Finance Corporation (established under the Housing Finance Corporation Laws).

In accordance with Parts II and III of the Law, only Approved Institutions are eligible to issue covered bonds. Approved Institutions are those Cypriot Credit Institutions which have been registered in the Register of Approved Institutions, (publicly available at the following link:

<https://www.centralbank.cy/en/licensing-supervision/banks/register-of-credit-institutions-operating-in-cyprus>) following a relevant application to the Competent Authority.

Approval of such application is granted within 1 month from submission, and only after the Credit Institution has successfully demonstrated its ability to carry out the legal obligations of an Approved Institution, and that it fulfils the criteria and conditions determined by the Competent Authority.

Indicative minimum requirements set out in the Directive, for the registration of a Credit Institution in the Register of Approved Institutions, are:

- > Core Tier 1 capital of at least EUR 50 million and capital adequacy ratio as required by the CBC under Pillar I and Pillar II of Regulation 575/2013 (Capital Requirements Regulation);
- > Establishment of an automated system for the support of the covered bonds business;
- > Established risk management procedures for the recognition, management, monitoring and control of risks that may arise during the conduct of the covered bonds business;
- > Procedures, policies and systems in place for the support of the covered bonds business; and

- > Compliance with the provisions of the Law and the Directive, to be represented by a written confirmation by the Board of Directors of the Credit Institution.

With respect to individual covered bond issuance, Approved Institutions must subsequently apply to the Competent Authority for registration of such new issue in the Covered Bonds Register (publicly available at the following link: [http://www.centralbank.gov.cy/nqcontent.cfm?a\\_id=11439&tt=article&lang=en](http://www.centralbank.gov.cy/nqcontent.cfm?a_id=11439&tt=article&lang=en)). Approval of such application is granted within 10 days from submission, and it is only following such approval that a newly issued bond becomes a covered bond.

### **III. COVER ASSETS**

Primary cover assets are:

- > Residential property backed loans (i.e. any kind of credit facility, secured on immovable property, provided that the property is used or intended to be used for residential purposes);
- > Commercial property backed loans;
- > Public claims;
- > Maritime loans; and
- > Any other type that may be determined by the Competent Authority.

The criteria, terms and conditions in relation to cover assets are determined by the regulator in Articles 13, 14 and 15 of the Directive. The main criteria indicatively include:

- > Residential and commercial loans should be secured by a mortgage (or an equivalent security over a property if the property is not located in Cyprus) created in accordance with the Laws of Cyprus or the law of other Member States<sup>1</sup>;
- > The mortgage or the equivalent charge on immovable property, securing the credit facility, is created for an amount, at least, equal to the value of the loan;
- > The immovable property securing the credit facility must be situated on the territory of the Republic or on the territory of other Member States;
- > A residential or commercial loan secured by buildings under construction may be included in the cover pool, provided that the total value in each cover pool of the loans secured by buildings under construction does not exceed 10% of the cover pool value;
- > Rescheduled loans may be included in the cover pool, only after the lapse of six months from the payment date of the first rescheduled loan instalment;
- > Hedging contracts may also be included in the cover pool, only to the extent that they are used exclusively for the purpose of hedging any type of risk that may adversely affect the value of the cover assets.
- a) It is noted, that in accordance with Article 33(b) of the Directive, the counterparty in a hedging contract must "*have a credit rating assigned to the first credit quality step as determined in Annex VI of the Directive 2006/48/EC or a guarantee by a connected entity of the counterparty whose credit rating is assigned to the first credit quality step*". The latest version of Annex VI is now incorporated in Article 129 of the Capital Requirements Regulation (CRR).

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<sup>1</sup> Member State means a member state of the European Union or other state which is party to the Agreement for the European Economic Area, which was signed in Oporto on 2 May 1992, and adapted by the Protocol signed in Brussels on 17 May 1993.

Finally, apart for the Primary Cover Assets, Complementary Assets may also be included in the cover pool, as prescribed under Articles 16, 17 and 18 of the Directive (e.g. deposits with central banks and other highly rated institutions, traded debt securities, etc.).

Limitations and guidelines on the above are specified in the Directive (e.g. total value of Complementary Assets included in the cover pool and counted in the measurement of the Basic Collateralisation, not to exceed 15% of the total value of covered bonds, etc.).

#### **IV. VALUATION AND LTV CRITERIA**

For **residential loans**, the LTV is not allowed to exceed 75%, provided that if the LTV is above 75% but below 100%, such loans may be included in the cover pool on the condition that:

- > They do not exceed 25% of the value of the covered bonds secured by the cover pool; and
- > Such inclusion would not cause the weighted LTV of the cover pool to exceed 80%.

For **commercial loans**, the LTV is not allowed to exceed 60%, provided that if the LTV is above 60% but below 80%, such loans may be included in the cover pool on the condition that:

- > They do not exceed 25% of the value of the covered bonds secured by the cover pool, and
- > Such inclusion would not cause the weighted LTV of the cover pool to exceed 65%.

For **maritime loans**, the LTV is not allowed to exceed 60%, provided that if the LTV is above 60% but below 70%, such loans may be included in the cover pool on the condition that:

- > They do not exceed 25% of the value of the covered bonds secured by the cover pool, and
- > Such inclusion would not cause the weighted LTV of the cover pool to exceed 65%.

In accordance with Article 13(10) and Article 15(10) of the Directive, the valuation of residential and commercial properties and the valuation of ships (Article 15(10) of the Directive) should be carried out by an independent valuer; i.e. a person who possesses the necessary qualifications, ability and experience to produce a valuation and is independent from the credit decision process.

For the monitoring and review of the value of the residential and commercial properties, the provisions of paragraph 8 (b) of Part 2 of Appendix VIII of the Directive of the Central Bank to banks for the Calculation of the Capital Requirements and Large Exposures shall apply. The provisions of the Directive dictate the following:

- > The revaluations of the properties may be carried out by applying statistical methodologies.
- a) For commercial properties, according to the aforementioned Directive, the value of the property is reviewed regularly and at least once a year;
- b) For residential properties, according to the aforementioned Directive, the value of the property is reviewed regularly and at least once every three years; and
- c) In situations where the market is subject to significant changes in conditions, a more frequent review of the property value is required.
- > When information indicates that the value of the property may have declined materially relative to general market prices, the property valuation must be reviewed by an independent valuer.
- > Also when the balance of the financing exceeds EUR 3 million or 5% of the own funds of the credit institution, the valuation of the property will be reviewed by an independent valuer at least every 3 years.

Additionally, and pursuant to Article 46(b) of the Directive, the Covered Bond Monitor ("CBM"), appointed in accordance with Article 49 of the Law, has a duty to examine the valuation process in relation to the valuation of the cover assets.

## **V. ASSETS – LIABILITY MANAGEMENT**

The Directive provides for the following statutory tests:

### **> Nominal Value Test**

The adjusted<sup>2</sup> nominal value<sup>3</sup> of the Basic Cover (i.e. the Basic Collateralisation as defined under Article 24 of the Directive) must be at least equal to the total value of covered bonds issued under the programme.

### **> Net Present Value Test**

The adjusted net present value of the Basic Cover must be at least equal to 105% of the total net present value of covered bonds issued under the programme. All cover pool assets, including loans, Complementary Assets and hedging instruments must be included in the calculation of net present value of the Basic Cover.

The above 105% condition must also be met in the following scenarios:

- (a) Parallel interest rate shift of +200 and -200 basis points;
- (b) Interest rate shifts determined by a 99% 6-month confidence interval using daily changes for the last 365 days;
- (c) Exchange rate changes:
  - > Euro and member-state currencies: 10%;
  - > Currencies of the United States, Canada, Japan, Switzerland, Australia: 15%; and
  - > Other currencies: 25%.
- (d) Exchange rate shifts determined by a 99% 6-month confidence interval using daily changes for the last 365 days.

### **> Weighted Average Life Test**

The weighted average life of cover assets counted in the measurement of Basic Cover and Supervisory Overcollateralisation (as defined under Article 25 of the Directive), must be longer than the weighted average life of the covered bonds.

### **> Interest Cover Test**

Interest inflows from cover pool assets in the Basic Cover and Supervisory Overcollateralisation for the next 180 days must be reconciled with interest due on the covered bonds for the next 180 days and the highest net interest shortfall must be covered by the Complementary Assets contained in the Basic Cover and Supervisory Overcollateralisation.

### **> Prematurity Test**

In relation to the repayment of the principal amount of the covered bonds, liquidity must be maintained, in the form of Complementary Assets or outside the cover pool in the form of liquid assets, as follows:

- a) For the period between 180 days to 30 days before the maturity date of the covered bonds, at least 50% of the principal amount due for repayment;
- b) For the period between 30 days before the maturity date and the maturity date of the covered bonds, 100% of the principal amount due for repayment.

Liquidity maintained for the purpose of meeting the prematurity test is not subject to the 15% limit of Complementary Assets in the cover pool (set in Article 20 of the Directive).

2 Adjusted, refers to the set-off and LTV adjustments, as outlined under Article 24 of the Directive.

3 "Value" is defined under the Directive to mean nominal value plus accrued interest.

Additionally to the above statutory tests, and with a view to protect the depositors and all other unsecured creditors in case of insolvency proceedings, and to potentially provide for a reserve of assets that may be used in the future to sustain further stresses, the Directive provides that an Approved Institution is not permitted to issue covered bonds, if such an issue would result in:

- > the total value of the primary assets which are required to be included in the institution's cover pools for each cover bond category, to exceed 90% of total value of the institution's eligible primary assets for that cover bond category, or
- > the total value of the cover assets included in all cover pools and counted in the cover pool adequacy, to exceed 25% of the total value of the institution's assets.

## **VI. TRANSPARENCY**

Transparency, in the Cypriot Legal Framework, is ensured through a series of reporting and registers that need to be maintained, updated and monitored by the covered bond Issuers as well as by the Competent Authority.

In accordance with Article 23 of the Law, covered bond Issuers are required to maintain a cover pool register for each covered bond Issue or Programme outstanding. Specific conditions for maintaining such Cover Pool Register (e.g. form, content, entry recording etc.) are outlined in Articles 34-38 of the Directive. The Cover Pool Register is to be updated whenever an asset is included or excluded from the cover pool (and at least on a monthly basis) and shared with the Competent Authority and the CBM.

Specifically, Articles 39-42 of the Directive set further transparency obligations to the covered bond issuers, requiring them to disclose, on a quarterly basis and in a publicly accessible area (e.g. their websites), specific statistical information relating to their outstanding covered bonds, in the form determined therein. The above information is also submitted to the Competent Authority and the CBM on a quarterly basis, in the form of Appendix 5 of the Directive.

With respect to the covered bond issuers and the covered bonds issued and outstanding in Cyprus, transparency is ensured through the maintenance of a Register of Approved Institutions (Article 5 of the Law) as a well as a Covered Bonds Register (Article 12 Law) by the Competent Authority. Both registers are kept in an electronic form and are publicly accessible in the website of the Competent Authority.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The Cypriot Legal Framework is structured in a manner which ensures very vigilant regulatory supervision of covered bond issuers. In accordance with Article 49 of the Law, each institution applying for registration in the Register of Approved Institutions, is required to appoint a qualified entity (e.g. an audit fi not associated with the covered bond issuer) as a Covered Bond Monitor (the "CBM"), such appointment being subject to the approval of the Competent Authority. The CBM must possess the necessary knowledge, experience and ability for the effective discharge of its functions and have the necessary qualifications outlined in Article 44 of the Directive. To the extent that, for any reason, the covered bond issuer has not managed to appoint a CBM, the Competent Authority is entitled to appoint one.

The duties of the CBM include a broad range of responsibilities, ranging from verifying to the Competent Authority, ahead of the application for the registration of bonds in the Covered Bonds Register, that the institution fulfils the conditions for registration as an approved institution, to submitting information and regular reports to the Competent Authority.

The main responsibilities of the CBM under the Cypriot Legal Framework include:

- > Overseeing the compliance of the Issuer with its obligations under the Cypriot covered bond Legislation;

- > Prior to an application for the registration of any covered bonds in the Covered Bonds Register, verifying that the Issuer fulfils the conditions for registration as an approved institution and complies with the provisions of the Law in relation to every previous issue of covered bonds that are outstanding;
- > Where hedging contracts are included in a cover pool, verifying that these contracts fulfil the criteria set out in Article 26 of the Cypriot covered bond Legislation;
- > Monitoring the cover pool assets included in a cover pool, including:
  - (a) Verifying the accuracy and completeness of the information provided for the cover pool Assets included in the Cover Pool Register;
  - (b) Examining the valuation process in relation to the valuation of the cover pool assets;
  - (c) Monitoring compliance, on an on-going basis, with the Statutory Tests; and
  - (d) Examining the entries in and removals from the Cover Pool Register and confirming the correct recording of the necessary information in the Cover Pool Register.

### **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Following the registration of the covered bonds in the Covered Bonds Register, and in accordance with Article 16 of the Law, the cover pool is segregated from the covered bond issuer's insolvency estate, securing the claims of the Cover Pool Creditors<sup>4</sup> and constituting a form of charge over the cover pool assets.

In accordance with the provisions of Article 28 of the Law and Article 21 of the Directive, covered bond issuers are required to maintain a Special Transaction Account, recording all inflows from the cover assets and the outflows from the account together with the details of such outflow. The balance of such Special Transaction Account is to be used solely for the servicing of the covered bonds as well as for the creation or acquisition of cover assets to be included in the cover pool, to ensure fulfillment of the cover pool adequacy criteria.

Furthermore, pursuant to Article 21(3) of the Directive, the covered bond issuer must have procedures in place which ensure, at any time, the ability to trace and calculate the cash inflows from the cover assets that have not been used. The operation of the Special Transaction Account is subject to the supervision of the CBM, in order to ensure that the covered bond issuer complies with the provisions of the Cypriot Legal Framework at all times.

In case of dissolution of the covered bond issuer, and until all legal claims of the Cover Pool Creditors are fully satisfied, the cover pool assets are not available to satisfy the claims of any other creditors of the Issuer in accordance with Article 40(5) of the Law.

By virtue of Article 40(7), 41 and 42 of the Law, the Covered Bond Business Administrator (the "CBBA") is empowered to dispose of the Cover Pool Assets, and use the proceeds of such disposal in order to satisfy the claims of the Cover Pool Creditors in priority over the claims of all other creditors.

To the extent that a covered bond issuer is subject to dissolution proceedings, in accordance with Article 40(5) and Article 40(6) of the Law, until the claims of the Cover Pool Creditors are satisfied in full, the cover pool assets will not be available to satisfy the claims of other creditors. Any surplus from the disposal of the cover pool, and only once the claims of the Cover Pool Creditors have been satisfied in full, shall be returned to the credit institution (Article 44(1) of the Law).

Cover Pool Creditors enjoy a dual recourse, safeguarded under the Law. In accordance with Article 43(5) of the Law, to the extent that the claims of the Cover Pool Creditors are not fully satisfied from the disposal of the cover pool, then these creditors are, with respect to the unsatisfied part of their claims, unsecured creditors of the covered bond issuer.

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<sup>4</sup> Cover Pool Creditors are defined in Article 2 of the Law to include, inter alia, the Covered Bond holders, the hedge counterparties, the Covered Bond Monitor and the Covered Bond Business Administrator.

In addition, where a covered bond Issuer is subject to dissolution proceedings, a Covered Bond Business Administrator (the "CBBA") is appointed by the Competent Authority (as per Article 59(1) of the Law), who takes all necessary measures to assume the control and the management of the cover pool and carries out the covered bond business. Any Cover assets not counted for the purposes of fulfilling the Statutory Tests shall be removed from the cover pool and the Cover Pool Register only by the CBBA.

The treatment of the cover pool following the commencement of dissolution proceedings is summarized below:

- > Upon the initiation of dissolution proceedings, the CBBA assumes control of the cover pool (*according to the provisions of Article 40 of the Law*) and also of any liquid assets maintained outside the Register for the purposes of meeting the Prematurity Test, and is responsible to review the adequacy of the cover pool in accordance with Article 19 and Article 23 of the Directive;
- > Cover pool adequacy assessment is being performed by the CBBA as per Article 18(6) of the Law, using solely those cover assets which are counted for the purposes of such assessment;
- > To the extent that the above assessment has been successfully met, any assets which are not required to meet such assessment, including relevant requirements under a contractual OC, are being released and become available to satisfy the claims of all other creditors, members and investors of the credit institution;
- > To the extent that the above assessment has not been successfully met, the CBBA (*according to the provisions of Article 29(2) of the Directive*) is entitled to use any assets included in the cover pool register that do not meet the criteria, terms and conditions for counting a cover asset in the cover pool adequacy. (*To the extent that such assessment is not met, the CBBA has the right to accelerate or transfer the CB business to another approved institution, in accordance with Article 62 (1) of the Law*).

With respect to an automatic acceleration of the covered bonds, this is something that is not provided for by the Law, where a covered bond Issuer is subject to dissolution proceedings.

In accordance with Article 40(1) of the Law, all outstanding covered bonds will remain in force (subject to the terms and conditions under which they were issued), and the obligations of the covered bond Issuer under the covered bonds continue to be enforceable.

## **IX. RISK WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 CRR. Cypriot covered bonds meet the criteria of UCITS 52(4).<sup>5</sup> This results in a 10% risk weighting assigned by the CBC. Covered bonds issued under the Cypriot Legal Framework form acceptable collateral for refinancing purposes with the ECB, following the typical ECB eligibility assessment and their inclusion on the ECB Eligible Assets Database (EADB).

## **X. ADDITIONAL INFORMATION**

### **Set-off**

Covered bond issuers are, in accordance with Article 20 of the Law, required to maintain, throughout the life of the covered bonds, a set-off reserve in connection with cover assets that are subject to set-off.

The Directive provides for the maintenance of such a set-off reserve, in the form of additional assets which are included in the cover pool (Articles 22, 24 and 25 of the Directive).

The set-off reserve is quantified by the Issuer and such calculation is subject to the monitoring of the CBM. The set-off reserve is segregated from the Issuer's other assets, forming part of the cover pool where Cover Pool Creditors have a priority claim over amounts in such reserve.

<sup>5</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

### **Conditional pass-through structures**

In September 2015, the only Cypriot covered bond outstanding (issued by Bank of Cyprus Public Company Ltd) was converted to a conditional pass-through note further to the amendment of the programme documents. The amended structure mitigates the risk of refinancing by introducing features such as maturity extension and a pass-through mechanism.

As such, upon the occurrence of a failure by the issuer to pay the final redemption amount on the final maturity date, the cover bond will convert into pass-through and the maturity of the bond will be extended. Once the covered bond converts into pass-through, an appointed portfolio manager may try to sell portfolio loans and any such proceeds from the sale of cover assets would be used for the repayment of the covered bond.

**Issuers:** Bank of Cyprus Public Co Ltd.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/93/Cypriot\\_Covered\\_Bonds](https://www.ecbc.eu/framework/93/Cypriot_Covered_Bonds)

## **3.10 CZECH REPUBLIC**

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### **I. REGULATORY FRAMEWORK**

On 4 January 2019, the long-awaited new Czech rules governing the legal and regulatory framework of covered bonds (the **Czech Covered Bonds Rules**) came into effect. The introduction of the Czech Covered Bonds Rules was prompted mainly by several key weaknesses and negative assessment of the previous legal and regulatory framework by the rating agencies as well as investors.

The Czech Covered Bonds Rules were enacted by virtue of amendments to Czech Act No. 190/2004 Coll., on Bonds, as amended (the **Czech Act on Bonds**), Czech Act No. 182/2006 Coll., on Insolvency and Methods of its Resolution (Insolvency Act), as amended (the **Czech Insolvency Act**) and certain other provisions of the applicable laws (the **Amendment**). Besides that, the Czech National Bank (the **CNB**) issued new Decree No. 2/2019 Coll., on Covered Block Records (the **CNB Decree**), regarding the record-keeping in respect of the covered blocks and the manner of meeting of the information duties of the issuers (and their periodicity).

As of May 2021, Directive (EU) 2019/2162 (the **CBD**) has not yet been transposed into Czech law.

### **II. COVERED BONDS AND THEIR TYPES**

The Czech Covered Bonds Rules recognise three types of covered bonds (*kryté dluhopisy*): (i) mortgage covered bonds (*hypoteční zástavní listy*); (ii) public covered bonds (*veřejnoprávní zástavní listy*); and (iii) mixed covered bonds (*smíšené zástavní listy*).

The distinction between these three types of covered bonds depends on what cover assets must prevail in the cover pool that serves as a cover in respect of those covered bonds and by virtue of which cover assets the applicable Statutory 85% Limit (as described below) must be complied with.

### **III. STRUCTURE OF THE ISSUER**

As before, pursuant to the Czech Covered Bonds Rules, covered bonds may only be issued by a bank (a credit institution) with its seat in the Czech Republic which holds a Czech banking licence.

The Czech Covered Bonds Rules have not introduced any further requirements for a special authorisation or any requirements for an issuer to be set up as a specialized credit institution (with restricted scope of permitted activities, for instance). Also, issuance of covered bonds does not trigger any prior approvals by the CNB or another authority on top of any standard requirements for prospectuses, if applicable.

The Czech legal and regulatory framework remains operating on the dual-recourse concept (with holders of covered bonds having a direct, unconditional and senior unsecured claim *vis-à-vis* the issuer and a preferential claim on the cover pool). This means that the assets in the cover pool(s) are reserved for preferential satisfaction of claims of holders of covered bonds and repayment of certain other debts so designated in the Czech Act on Bonds, the terms and conditions or the prospectus of covered bonds or in an agreement related to covered bonds (relevant parts of which must be disclosed to the investors in the same manner as the terms and conditions or the prospectus of covered bonds). Consequently, the covered bond holders have a *dual recourse* against (i) the relevant cover pool and (ii) the insolvency estate of the issuer.

### **IV. COVER ASSETS, COVER ASSETS REGISTER AND COVERED BLOCK RECORDS**

The eligible assets comprise the following asset classes:

- (i) mortgage loan receivables;

- (ii) receivables against, or receivables guaranteed by, a Member State of the OECD or the central bank of such a state, or a multilateral development bank or international organisation whose member is a Member State of the OECD;
- (iii) other assets or exposures pursuant to Article 129(1) and (2) of Regulation (EU) No. 575/2013 (the **CRR**);
- (iv) the issuer's cash on an account kept by a bank or another person set out in Czech Act No. 240/2013 Coll., on Investment Companies and Investment Funds, as amended (the **Issuer's Cash**); and
- (v) rights arising under a derivative in accordance with Article (2)(5) of Regulation (EU) No. 648/2012 of the European Parliament and of the Council, on OTC derivatives, central counterparties and trade repositories (EMIR) (the **Derivative**).

A Derivative is considered as an eligible asset only if the following cumulative conditions are met: (i) the purpose of the Derivative is to hedge against the risks related to cover assets or covered bonds; (ii) the Derivative was clearly concluded in relation to covered bonds; (iii) the terms of the Derivative provide that insolvency of an issuer, crisis resolution or similar measure in respect of an issuer cannot constitute an event of default or similar event which could lead to early termination of the Derivative; and (iv) the issuer's counterparty to the Derivative has granted its prior consent to registration of the Derivative in the cover assets register (while the same applies also to its removal from the cover assets register).

Upon registration of an eligible asset in the cover assets register, it becomes a **cover asset**, which is protected by the Czech Act on Bonds and cannot be transferred, pledged or otherwise used as a security (until deregistered from the cover asset register).

Depending on the type of covered bonds involved, particular eligible assets will have to constitute such cover that the aggregate value of certain cover assets in the cover pool must be equal to at least 85% of the aggregate value of all debts for whose cover the cover pool serves (the **Statutory 85% Limit**), unless a higher limit is stipulated by the terms and conditions of a series of covered bonds. In meeting this limit, the following cover assets are always disregarded: (i) the Issuer's Cash; (ii) rights arising under a Derivative; and (iii) assets pursuant to Article 129(1)(c) and 129(2) of the CRR.

Besides the cover assets, the cover pool also includes, without a need of their registration in the cover assets register, the following assets (each designated as an accessory asset): (i) rights from a security provided in relation to the cover asset included in the cover pool, in particular rights from mortgages of real property in relation to the mortgage loans; (ii) rights from agreements entered into in relation to the cover assets included in the cover pool (especially rights from any insurance agreements or policies); (iii) an asset provided as a collateral or other security in respect of a Derivative; (iv) rights from agreements concluded in relation to the administration of the covered block whose part is the cover pool; and (v) upon appointment of an involuntary administrator of covered blocks, cash accepted as payment for the repayment of a debt corresponding to a receivable arising under another (cover) asset that is included in the cover pool or in direct connection with such an asset.

The cover assets register forms the core part of the covered block records that an issuer of covered bonds (or involuntary administrator of covered blocks, once appointed) is obliged to keep. The cover assets register, and the covered block records must be kept separately in respect of each cover pool and each covered block. The covered block records must provide complete information for assessing whether and how the issuer fulfils its duties under the Czech Act on Bonds. Further details on how the covered blocks records should be kept are laid down by the CNB Decree.

## **V. COVER POOL(S) AND COVERED BLOCK(S)**

The cover pool is created upon registration of at least one eligible asset in the cover assets register. The issuer may, at its sole discretion, create only one cover pool or multiple cover pools, which may serve to cover its obligations from individual or multiple series of outstanding covered bonds or all series of covered bonds issued under one covered bond programme.

The cover pool is a fully segregated and ring-fenced pool of assets registered in the cover assets register, identified and designated by the issuer to constitute cover in respect of certain covered bonds that it has issued (and which are outstanding) and certain other debts of that issuer, as well as other assets (the accessory assets) which belong to that cover pool by operation of law. Any assets included in the cover pool must be held by the issuer and such assets shall remain at all times on the issuer's balance sheet.

The issuer is obliged to monitor the eligibility of the assets in the cover pool continuously. The issuer must remove from the cover assets register those assets that no longer satisfy the eligibility criteria from the cover pool and substitute them with other eligible assets. However, the involuntary administrator of covered blocks, if and once appointed, has no such duty. The priority right of holders of covered bonds to the cover pool(s) extends also to any overcollateralisation.

With the creation of one or more cover pools, an issuer also creates a covered block, which is a fully segregated and ring-fenced block of assets and liabilities (debts) of that issuer. A covered block consists of the cover pool and the debts that it covers.

## **VI. VOLUNTARY COVERED BLOCK MONITOR**

An issuer has to ensure that certain controls are in place with respect to whether the cover assets and cover pool comply with the Czech Covered Bonds Rules. The issuer is obliged to maintain the cover block records and to monitor the eligibility of each of the cover assets included in the cover assets register on a continuous basis, but it may appoint a covered block monitor (*monitor krytého bloku*) to monitor the covered block(s) of the issuer and related parts of the covered block records. Further duties and obligations of the covered block monitor must be specified in the relevant appointment agreement.

## **VII. STATUTORY MINIMUM OVERCOLLATERALISATION LEVEL AND OTHER TESTS**

The Czech Covered Bonds Rules further require the aggregate value of all cover assets included in the cover pool to represent at least 102% of the aggregate value of all debts that are covered by the respective cover pool and thus resulting in a minimum 2% overcollateralisation (the **Statutory Minimum OC Level** and the Statutory 85% Limit and the Statutory Minimum OC Level, jointly also the **Cover Tests**). The terms and conditions of a series of covered bonds may set a higher overcollateralisation level.

In the case of mortgage covered bonds, the nominal value of any mortgage loan receivable in the cover pool must not exceed 100% of the mortgage lending value of the mortgaged real property (the Statutory 100% Individual LTV Limit), unless a lower limit is stipulated by the terms and conditions of a series of covered bonds (which may implement stricter, CRR-conform criteria, in their programmes or individual series of covered bonds). However, this requirement does not operate as a strict eligibility criterion (but is rather set as a soft limit only) since, to the extent the nominal value of an individual mortgage loan exceeds such a limit, it will be partially disregarded for the purposes of calculating the Cover Tests.

The issuer regularly (at least each calendar quarter) informs the CNB on whether and how the issuer meets its duties, including, but not limited to, compliance with the Cover Tests and the Statutory 100% Individual LTV Limit.

## **VIII. MORTGAGE LOANS – ELIGIBILITY CRITERIA**

Mortgage loans included in the issuer's cover pool(s) are subject to certain conditions, including that: (i) the mortgaged real property must be located in the Czech Republic or in an EEA country; (ii) compliance with the Statutory 100% Individual LTV Limit is ensured (which is, however, set as a soft limit rather than as a strict eligibility criterion, whilst, to the extent the nominal value of an individual mortgage loan exceeds such limit (and only to that extent), it will be partially disregarded for the purpose of the Cover Tests; and (iii) there may not be any other mortgage or similar third-party right attached to the mortgaged real property having the same or priority ranking to those mortgage rights securing mortgage loan receivables (or a part of them) used as a cover (if this condition is not met, the nominal value of the relevant mortgage loan is equal to zero for the purposes of the Statutory 85% Limit).

Additionally, in the case of default of a borrower under the relevant mortgage loan pursuant to Section 178 of the CRR (or if a stricter condition set out in the relevant terms and conditions is met), the nominal value of the relevant mortgage loan receivable in the cover pool will be equal to zero (i.e. decreased by 100%) for the purpose of calculating the Cover Tests.

## **IX. VALUATION METHODS**

The value of each cover asset included in the particular cover pool is, for the purpose of calculating the Cover Tests, expressed in its nominal value, with the exception of a Derivative which is expressed at its fair (or real) value in accordance with the applicable international accounting and financial reporting standards.

Under the Czech Covered Bonds Rules:

- (a) any positive fair (or real) value of a Derivative in the cover pool will be taken into account only up to the amount of accepted security or collateral in respect of the Derivative in the form of cash or a receivable against or guaranteed by (i) an OECD member state; (ii) a central bank of an OECD member state; or (iii) a multilateral development bank or an international organisation whose member is an OECD member state; and
- (b) any negative value of a Derivative in the cover pool will be disregarded, and consequently, the negative fair (or real) value of the Derivative becomes a part of the relevant covered block as a debt for whose cover the cover pool serves, unless the issuer has provided to the counterparty a security or collateral in respect of the Derivative in the form of cash or a receivable referred to under (a) above, which security or collateral is part of the relevant covered block.

In the case of mortgage covered bonds, the mortgage lending value of the mortgaged real property is determined exclusively by the issuer on the basis of the issuer's internal rules while respecting overall evaluation of the respective mortgaged real property with special regard to:

- (a) characteristics of the mortgaged real property which are sustainable on a permanent and a long-term basis;
- (b) income achievable by a third party operating the mortgaged real property with due care;
- (c) rights and encumbrances attached to the mortgaged real property; and
- (d) conditions prevailing on the local real property market and anticipated development of that market.

These conditions are similar, yet not identical to those set out in Article 4(47) of the CRR. The mortgage lending value determined by the issuer in accordance with these principles may not exceed the *open market value* of the mortgaged real property. The valuation is exercised by the issuer's surveyor (both internal and external). Having said that, the reference to *open market value* is not entirely precise as the relevant Czech property valuation law stipulates that a structure is to be valued by the cost method, revenue method, comparative

method or by a combination of these methods, whereas a plot of land (and in particular a construction site) is to be valued by multiplying the area of the plot of land by the price per square meter given in the pricing map issued by the local authority concerned.

## **X. ENHANCED PROTECTION AND FULL RING-FENCING IN INSOLVENCY**

The Czech Covered Bonds Rules bring about major changes in the applicable insolvency regime in respect of covered bonds and the cover pool or cover pools of an issuer of covered bonds.

The Czech Insolvency Act explicitly provides that cover pool(s) do not constitute a part of the issuer's insolvency estate and are fully segregated and ring-fenced from any other (general) assets of the issuer which fall within the issuer's insolvency estate, regardless of whether the aggregate value of these assets is lower or higher than the limits set out in the Czech Act on Bonds. The Czech Insolvency Act further provides that: (i) the automatic acceleration of debts from covered bonds as a result of the commencement of insolvency proceedings and declaration of bankruptcy in relation to the assets of the issuer shall not apply (which on its own represents an extremely credit-positive change compared with the previous regulatory regime); (ii) neither the commencement of the insolvency proceedings against the issuer, the issuing of a decision on insolvency of an issuer nor the declaration of bankruptcy in relation to the assets of an issuer shall affect the covered block(s) (especially the satisfaction and maturity of debts that are part of such covered block(s)); and (iii) the insolvency administrator must not intervene in the administration of the covered block (which is entrusted to the involuntary administrator) and must render assistance to the involuntary administrator of covered blocks.

## **XI. INVOLUNTARY ADMINISTRATOR OF COVERED BLOCKS**

Upon commencement of the insolvency proceedings in respect of an issuer of covered bonds or its assets, the CNB will, without undue delay, appoint an involuntary administrator of covered blocks in order to ensure proper management of the covered blocks. The involuntary administrator of covered blocks may only be a Czech bank or a foreign bank with its registered office in another EEA country that issues securities comparable to covered bonds or that administers assets comparable to cover assets, and it cannot be a person in respect of which there is a risk of a conflict of interests.

The involuntary administrator of covered blocks is entrusted with full administration of all covered blocks of the relevant issuer and may agree an obligation both for the benefit and to the detriment of a covered block in order to improve liquidity or hedge against risk.

The involuntary administrator of covered blocks must, without undue delay after its appointment, open an account with a bank in order to accept payments, and inform the persons whom this may concern about an unequivocal identifier of such account. Any other person that receives a payment in favour of the cover pool will, without undue delay, transfer it to such account or to the involuntary administrator of covered blocks in favour of the relevant cover pool.

The involuntary administrator of covered blocks may:

- (i) transfer the relevant covered block to another eligible entity and entrust it with its administration (whilst a transfer made without the consent of the CNB will be disregarded);
- (ii) conduct a proportional decrease (*a pari passu* haircut) of debts belonging to the covered block; or
- (iii) liquidate the cover assets (cover pool(s)) and consequently proceed with early repayment of the covered bonds.

In all instances, only the CNB's consent is required and the CNB will only grant its consent provided that any of these actions is in the best interest of the holders of covered bonds. The effectiveness of the transfer, the *pari passu* haircut, or the liquidation towards third parties does not require any other (prior or subsequent) public or private consent or notification.

## **XII. COMPLIANCE WITH EUROPEAN LEGISLATION AND RISK-WEIGHTING**

The Czech Covered Bonds Rules now enable an issuer of covered bonds to fully comply with not only:

- (i) the requirements of Article 52(4) of the UCITS Directive (c) which allows standard (i.e., UCITS-compliant) funds to invest up to 25% of the fund's assets in covered bonds meeting certain criteria), but also
- (ii) the CRR criteria (Article 129 of the CRR in particular) or other rules implementing the CRR in relation to covered bonds.

Besides the CRR, the risk-weighting of covered bonds is also regulated by the CNB Decree No. 163/2014 Coll., on the Performance of the Activities of Banks, Credit Unions and Investment Firms, as amended.

## **XIII. TRANSPOSITION OF THE CBD**

As of May 2021, the CBD has not yet been transposed into Czech law. That being said, many of the mandatory provisions of the CBD are already standard features of the Czech Covered Bonds Rules. As of May 2021, a bill seeking amendments to the Czech Act on Bonds and the Czech Covered Bonds Rules implementing the CBD into Czech law is being discussed in the Czech Parliament (the **CBD Amendment**).

The CBD Amendment is expected to introduce some of the mandatory features of the CBD not yet contained in the Czech Covered Bonds Rules (such as liquidity buffer requirement, expansion of investor reporting obligations and covered bond programmes permission requirement) as well as some of the optional features thereof (such as maturity extension (soft-bullet) mechanism). Furthermore, the CBD Amendment is expected to introduce further changes (not relating to the CBD) aiming mainly to fill gaps in the Czech Covered Bonds Rules which were spotted after it was introduced.

The wording of the CBD Amendment is not yet final and it therefore remains uncertain how the Czech Covered Bonds Rules will be ultimately amended.

**Issuers:** Česká spořitelna, a.s., Hypoteční banka, a.s., Komerční banka, a.s., Raiffeisenbank a.s., MONETA Money Bank, a.s., Sberbank CZ, a.s., UniCredit Bank Czech Republic and Slovakia, a.s., Wüstenrot hypoteční banka a.s., Equa Bank a.s.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/112/Czech\\_Republic\\_Covered\\_Bonds](https://www.ecbc.eu/framework/112/Czech_Republic_Covered_Bonds)

### **3.11 DENMARK**

By Mette Saaby Pedersen, Finance Denmark, Svend Bondorf and Anton Holmgaard Nielsen, Nykredit

#### **I. FRAMEWORK**

In Denmark the legal basis for covered bond issuance is the Danish Mortgage-Credit Loans and Mortgage-Credit Bonds etc. Act (the "Mortgage Act") (*Lov om realkreditlån og realkreditobligationer mv.*) and the Danish Financial Business Act (*Lov om finansiel virksomhed*). The Mortgage Act is applicable only to Danish mortgage banks. The mortgage banks are specialised banks. The Capital Requirements Regulation (CRR) is directly applicable to the commercial banks and the mortgage banks.

Specific bankruptcy regulations laid down in the Financial Business Act and the Mortgage Act prevail over general bankruptcy regulations (sections 247a-247i of the Financial Business Act and sections 22-33 of the Mortgage Act).

#### **II. STRUCTURE OF THE ISSUER**

The Danish Financial Supervisory Authority (FSA) may license mortgage banks, commercial banks and ship financing institutions<sup>1</sup> to issue covered bonds.

Until 1 July 2007, only mortgage banks were allowed to issue mortgage covered bonds. Since this date, also commercial banks can obtain a license to issue covered bonds.

This leads to the existence of three types of Danish covered bonds:

- > Særligt Dækkede Obligationer (SDOs) issued by either commercial or mortgage banks. SDOs are both UCITS (Article 52(4)) and CRR compliant (Article 129).
- > Særligt Dækkede Realkreditobligationer (SDROs) issued exclusively by mortgage banks, fulfi the former as well as the new legal requirements. SDROs are both UCITS (Article 52(4)) and CRR compliant (Article 129).
- > Realkreditobligationer (ROs) issued exclusively by mortgage banks. ROs are UCITS compliant (Article 52(4)).

In addition, all ROs issued before 1 January 2008 have maintained their covered bond status in accordance with the grandfathering option under the CRR. The grandfathered bonds are both UCITS (Article 52(4)) and CRR (Article 129) compliant.

Danish mortgage banks operate subject to a specialist banking principle in accordance with Danish legislation, which confines the activities of issuers to the granting of mortgage loans funded by the issuance of covered bonds. The cover pool may include unsecured loans to public authorities and guarantees issued by public authorities, but this is rarely used. Mortgage banks may also carry on other business related to mortgage banking.

The specialist banking principle implies that mortgage banks are confined to granting loans that meet the requirements for cover assets imposed by legislation. Similarly, the funding sources are limited to ROs, SDOs and SDROs. This is due to the fact that Danish mortgage banks are not allowed to accept deposits, etc. as a source of funding, cf section 8 of the Financial Business Act.

The issuer (mortgage bank or commercial bank) holds the cover assets on its balance sheet as well as all rights under the cover assets. Bonds and cover assets are assigned to individual capital centers in mortgage banks and to registers in commercial banks. The individual bonds, however, are not linked to individual mortgage loans.

Issuers have their own employees. Outsourcing of activities is allowed if control measures are deemed satisfactory by the FSA, and consumer protection regulations are observed.

<sup>1</sup> Ship financing institutions are regulated by the Act on a Ship Financial Institute (Consolidating Act no 851-25 June 2014).

### **III. COVER ASSETS**

Assets eligible as the basis for mortgage covered bond issuance:

<b>SDO</b>	<b>SDRO</b>	<b>RO</b>
<ul style="list-style-type: none"> <li>&gt; Loans secured by real property</li> <li>&gt; Exposures to public authorities</li> <li>&gt; Exposures to credit institutions (up to a maximum of 15% (CQS 1)/10% (CQS 2))</li> <li>&gt; Collateral in ships (not an option for mortgage banks)</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Loans secured by real property</li> <li>&gt; Exposures to public authorities</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Loans secured by real property</li> <li>&gt; Exposures to public authorities</li> </ul>

To serve as cover assets, mortgages must be entered in the Danish land register, which is kept by the Danish district courts. Land and loan registration has been digital since 2009 with faster and more efficient handling of customers' loans as a result.

The mortgage loans are originated in a mortgage bank or a credit institution in the same group, or transferred to a mortgage bank according to a structure in which the mortgage bank has knowledge of and is responsible for correct valuation of the mortgaged property and verification of the debtor's creditworthiness and ability to pay.

The difference between funding and lending may be hedged through derivatives, which are included in the cover pool assets.

In a capital centre in a mortgage bank the cover pool is dynamic as a result of the current addition and disposal of loans in connection with the granting and repayment of loans. In most capital centers assets may exclusively be transferred to or from the cover pool upon new lending and (p)repayment. On (p)repayment, the corresponding amount of issued bonds will be redeemed from the capital center. Each mortgage loan (cover asset) refers to specific ISIN codes and both cover assets and ISIN codes are assigned to specific capital centers. It is therefore not possible for the issuer to (i) change the cover pool unless in connection with new lending and (p)repayment nor (ii) transfer cover assets between different cover pools. Cover assets must be identifiable, and the FSA supervises cover asset identification.

### **IV. VALUATION AND LTV CRITERIA**

The financial legislation contains provisions on property valuation. Valuations are based on the open market value of a property.

#### **LTV limits – an overview**

<b>Property category</b>	<b>Loan Type</b>	<b>SDO</b>	<b>SDRO</b>	<b>RO</b>
Residential property	80% or 75% <sup>1)</sup>	80% or 75% <sup>1)</sup>	80%	
Holiday property	75% <sup>2)</sup>	75% <sup>2)</sup>	75% <sup>2)</sup>	
Agricultural property	60% <sup>3)</sup>	60% <sup>3)</sup>	70%	
Commercial property	60% <sup>3)</sup>	60% <sup>3)</sup>	60%	

Note: 1) 80% for loans issued with up to 30 years maturity and 10 years interest-only period and 75% for loans with an unlimited maturity and interest-only period.

2) 75% for holiday property for private use. The LTV limit is 60% for holiday property for commercial use.

3) The LTV can be raised to 70% if the bank adds additional collateral.

In connection to the issuance of SDOs and SDROs, mortgage banks and commercial banks must ensure continuous LTV compliance – i.e. not just at disbursement of the loan as is the case for ROs. Where an LTV

ratio exceeds the statutory limits, the bank must add supplementary collateral to the capital center/register. Otherwise, the issues may lose their status as SDOs or SDROs.

Mortgaged property is valued (on-site inspection) as part of the processing of loan applications. When a loan is granted, the LTV thereof is assessed on a case-by-case basis. A basic principle of the valuation regulations is that valuations must be performed by a valuation officer of an issuer. Provided that a number of conditions are met, valuations may be outsourced. AVMs may also be used if approved by the Danish FSA and most Danish mortgage banks have got an approval to use own models. The detailed conditions for valuation are set out in the financial legislation.

## **V. ASSET – LIABILITY MANAGEMENT**

The financial legislation and the Executive Order on bond issuance, balance principle and risk management require mortgage banks and commercial banks to observe a balance principle and a set of rules on risk management in connection with the issuance of RO, SDRO and SDO.

The Executive Order provides limits to the scope of differences allowed on one hand the payments from borrowers and on the other hand the payments to the holders of the issued ROs, SDROs and SDOs. The limits are adjusted by loss limits to the interest rate, foreign exchange, option and liquidity risks that follow from cash flow differences in the balance sheet. The Executive Order also contains a number of other provisions limiting financial risk.

For commercial banks, the balance principle is applicable at register level. For mortgage banks, the balance principle is applicable at the level of the individual capital centers and the banks in general.

Despite the risk limits of the balance principle, Danish mortgage banks have in practice structured their mortgage lending business in such a way that they do not assume significant financial risks with respect to mortgage lending and funding. Thus, the mortgage banks have nearly eliminated interest rate risk, foreign exchange risk and prepayment risk.

Since mortgage bond issuance is the only eligible funding source for Danish mortgage banks, issuance takes place on a daily basis. The mortgage bank commonly achieves this through *tap issuance*. Each loan is closely matched to the future cash flow of one or several specific ISIN codes currently open for issuance. On any given banking day, the mortgage bank calculates the bond amounts to be tapped in the relevant ISINs corresponding to the loans disbursed that day. These bond amounts are then issued and sold to investors. These simple principles ensure that the balance principle is maintained day by day and minimises the subsequent need for active asset-liability management.

A typical mortgage ISIN is open for tap issuance for several years after opening. Issuance trades are executed alongside with other trades in a unified, highly liquid and tightly priced market. Thus, there is no strict distinction between primary and secondary markets in the Danish system.

The Danish commercial banks too, are subject to the strict ALM rules. In practice the commercial banks operate under a general asset and liability management and do not offer pass-through products.

Refinancing risk in a situation where a mortgage bank is unable to complete the refinancing of matured bonds on market terms is addressed in the legislation. The regulation applies to covered bonds where the loan term is longer than the maturity of the bond used to fund it and contains a soft bullet mechanism controlled by two triggers: a refinancing failure trigger and an interest rate trigger. The refinancing trigger automatically extends the maturity of the covered bonds by 12 months at a time in case the issuer is unable to refinance maturing covered bonds by new issuance. The mechanism is not exercisable at discretion of the issuer, but it is conditional on the specific market event of "no refinancing". The interest rate trigger, which applies solely to bond maturities of 2 years or less, comes into effect in case of a 5% point bond yield increase over the last year before ordinary maturity. This trigger may extend the bond maturity by 1 year.

According to the legislation, the capital base must represent at least 8% of risk-exposure amount (REA). Mortgage banks must observe the capital adequacy requirement both at individual capital center level and at the level of the institution. Overcollateralisation forms part of the cover pool.

## **VI. TRANSPARENCY**

A high level of transparency is an important characteristic of the Danish covered bond market. The Danish covered bond issuers publish information via many different platforms, such as prospectuses, investor reports, trading venues, standardised transparency templates and issuers' investor relations websites. Information is thus easily accessible.

As part of the ECBC Label Initiative, the Danish issuers report information in the standardised format in the Harmonised Transparency Template (HTT). In addition, the Danish market participants have gathered available information and consolidated it in an intuitive and user-friendly structure in a national transparency template (NTT).

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Specialised supervision of covered bond issuers is carried out by the Danish FSA (Denmark has not joined the single supervisory mechanism – SSM). The FSA supervises compliance with the legislative framework for carrying on mortgage banking activities and thereby the issuance of covered bonds.

The issuer monitors the cover pool continuously. Data from every single loan offer from the Danish mortgage banks and thus all property valuations for new lending purposes are reported to the FSA on a quarterly basis. The FSA performs random checks of mortgage banks' valuations by way of on-site inspections and by checks of the internal valuation reports and which other property has been used as reference to the basis for the valuation. In the Danish mortgage model where loans are originated, serviced and redeemed directly in the cover pool, there is no need for monitoring other than as provided by the FSA.

The commercial banks report on a quarterly basis to the FSA on the assets in the register. The statement of the registered assets must be verified by the external auditor of the bank.

Issuers are also required to prepare comprehensive reports on asset-liability management for the FSA on a quarterly basis. The FSA must be informed of any balance principle breaches without delay. If the capital requirement is not observed, the FSA must be informed without delay.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

### **Capital centres of mortgage banks (regardless of whether the issuer has issued ROs, SDROs or SDOs)**

The rules for resolving a mortgage bank are detailed and well considered. The main considerations are to ensure (i) that bond investors receive timely payments and (ii) that the rights of borrowers are not prejudiced materially.

Balance sheets of Danish mortgage banks are structured with a number of separate capital centres (cover pools) out of which covered bonds are issued. A capital centre consists of a group of series in which covered bonds backed by an equivalent amount of mortgage loans (match funding) are issued and a joint series reserve fund (equity). In addition, supplementary capital (senior secured debt/Section 15 bonds) may be issued out of the capital centre for overcollateralisation purposes.

If a mortgage bank is declared bankrupt, a trustee in bankruptcy is appointed. The Danish FSA may declare a mortgage bank bankrupt.

The trustee looks after the interests of the estate in bankruptcy, i.e. the interests of the creditors and particularly the covered bond investors in relation to the individual capital centres. Today, the creditors of a mortgage bank are almost exclusively covered bond investors. The trustee must seek the most efficient administration of

the estate, having regard to the fact that the position of covered bond investors and borrowers must remain essentially as if the capital centre had still been a going concern. If a mortgage bank is declared bankrupt, no acceleration therefore takes place in respect of covered bond investors or borrowers. This is the key principle. It is only possible because the mortgage system is structured around capital centres that offer very high statutory collateral for bonds based on ring-fenced, bankruptcy-remote capital centres and match-funded lending.

Winding-up is not fast, but orderly, with a minimum of changes for both bond investors and borrowers. No public funds are used for such winding-up, as borrowers' ongoing payments are passed through to bondholders. Holders of hybrid core capital and subordinate loan capital cannot use the bankruptcy of a mortgage bank as grounds for a claim of default. Similar rules apply to counterparties to financial instruments used to hedge risk in a capital centre.

If a mortgage lender is declared bankrupt, the assets, after deduction of estate administration costs, will be segregated to satisfy bond holders, etc., in accordance with their legal position as secured creditors. Covered bond holders have a primary secured claim against all assets in the cover pool. Counterparties to financial instruments used to hedge risk in a capital centre rank pari passu with covered bond holders in the relevant capital centre.

Proceeds from loans raised for the purpose of overcollateralisation (senior secured bonds/Section 15 bonds) will serve to satisfy the claims of covered bond holders in case of bankruptcy.

The EU Bank Recovery and Resolution Directive (BRRD) has been implemented in Danish regulation and came into force on 1 June 2015. The bail-in tool does not apply to covered bonds (SDO, SDRO and RO) and senior secured debt/Section 15 bonds. While exempt from bail-in, the Danish mortgage banks is subject to a debt buffer of unweighted loans. The minimum level of the buffer is 2%. For systemic mortgage banks and mortgage banks being part of a systemic financial group, a higher buffer requirement may be set. The total amount of the capital requirement and debt buffer (and MREL requirement) should always be at least 8% of total liabilities (at consolidated level). The higher level of the buffer will be phased in by 2022.

In case of resolution the debt buffer can be used by the resolution authority (in Denmark the resolution authority is Finansiel Stabilitet) to capitalise the mortgage banks when using BRRD resolution tools other than the bail-in tool. These tools can only be used according to the principle of "no-investor-worse-off". Otherwise the winding-up will be handled according to the abovementioned principle.

### **Commercial bank registers**

A commercial bank sets up a register segregating assets, which exclusively serve as SDO cover assets.

As is the case with mortgage banks, derivative counterparties have a primary preferential right in line with the SDOs provided that the derivatives contract stipulates that the suspension of payments or bankruptcy of a commercial bank does not constitute an event of default. Bonds issued to secure assets as compensation for LTV excess or overcollateral in general (also referred to as Section 15 bonds or senior secured bonds) have a secondary preferential right to all assets of the register.

The register is kept by the commercial bank and must at all times contain all assets, guarantees received and derivatives contracts, clearly individualised. The commercial bank must submit statements of the assets to the FSA. The external auditor must perform continuous regular control of the register and at least twice a year make unannounced register audits.

Where the FSA suspends the license of a commercial bank to carry on banking business, the FSA or the bank files a bankruptcy petition, or the bank is adjudicated bankrupt following the petition of a third party, the FSA will decide whether the register is to become subject to administration by an administrator as an estate in administration. The administrator (and not the ordinary trustee) will be in charge of the assets of the register.

Any unsatisfied residual claims by SDO holders and derivative counterparties against the register may be proved against the assets available for distribution of the commercial bank, but – contrary to the proceedings related to mortgage banks – exclusively as ordinary claims. Residual claims from Section 15, bonds or senior secured bonds may also be proved as ordinary claims against the assets available for distribution.

The register is – contrary to the capital centres of mortgage banks – not subject to any specific statutory minimum requirement as to capital adequacy. The 8% capital adequacy requirement must only be fulfilled at the level of the commercial bank.

## **IX. RISK-WEIGHTING AND COMPLIANCE WITH EUROPEAN LEGISLATION**

SDOs, SDROs and ROs fulfil the criteria of Article 52(4) UCITS. SDOs and SDROs also fulfil the requirements of Article 129 CRR<sup>2</sup>. ROs issued before 1 January 2008 maintain the low risk weighting of 10% throughout the maturity of the bonds in accordance with the grandfathering option under the CRR. ROs issued after 1 January 2008 carry a risk weight of 20%. ROs, SDOs and SDROs are eligible for repo transactions and may be used as collateral for loans with the Danish central bank (Danmarks Nationalbank). Under the LCR the largest RO, SDO and SDRO series qualify as assets of the highest quality (Level 1 covered bonds).

When investing in ROs, SDOs and SDROs, the Danish investment legislation allows UCITS, to exceed the usual limits on exposures to a single issuer. Thus, acknowledging the reduced risk associated with covered bond assets (cf. the Act on Investment Associations and Special-Purpose Associations as well as other Collective Investment Schemes etc.).

**Issuers:** Covered bonds backed by real estate collateral are primarily issued by the specialised mortgage banks: Jyske Realkredit a/s, DLR Kredit A/S, Nordea Kredit Realkreditaktieselskab, Nykredit Realkredit A/S (incl. Totalkredit A/S and LR Realkredit A/S), Realkredit Danmark A/S. At the end of 2020 the mortgage banks' outstanding volume of covered bonds was around EUR 409 bn. Danske Bank A/S is the only commercial bank issuing covered bonds. Danske Bank has issued non-pass-through (euro-style) covered bonds of a value of around EUR 22.5 bn. Danish Ship Finance is the only Danish issuer of covered bonds backed by ship loans. The outstanding volume of covered bonds backed by ships as collateral was around EUR 5.7 bn by year end 2020.

**ECBC Covered Bond Comparative Database:**

[https://www.ecbc.eu/framework/89/Realkreditobligationer\\_-\\_RO](https://www.ecbc.eu/framework/89/Realkreditobligationer_-_RO)

[https://www.ecbc.eu/framework/87/S%C3%A6rligt\\_D%C3%A6kkede\\_Obligationer\\_-\\_SDO](https://www.ecbc.eu/framework/87/S%C3%A6rligt_D%C3%A6kkede_Obligationer_-_SDO)

[https://www.ecbc.eu/framework/88/S%C3%A6rligt\\_D%C3%A6kkede\\_Realkreditobligationer\\_-\\_SDRO](https://www.ecbc.eu/framework/88/S%C3%A6rligt_D%C3%A6kkede_Realkreditobligationer_-_SDRO)



COVERED BOND  
LABEL

• Jyske Realkredit A/S (1 pool), Danske Bank A/S (3 pools), DLR Kredit A/S (1 pool), Realkredit Danmark A/S (2 pools),  
Danish Ship Finance A/S (2 pools), Nordea Kredit Realkreditaktieselskab A/S (2 pools), Nykredit Realkredit A/S (2 pools).

2 Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR):  
<https://hypo.org/ecbc/covered-bonds/>.

### **3.12 ESTONIA**

By Paul Künnap, Jane Eespöld, Oliver Ämarik and Karl Joonas Kendla, Law Firm Sorainen

#### **I. FRAMEWORK**

On 13 February 2019, the Estonian Parliament adopted a legislation on covered bonds in Estonia. The law entered into force on 1 March 2019. This is the first legislation that provides the possibility to issue covered bonds in Estonia. The application for approval of a covered bond prospectus to the Estonian Financial Supervision Authority (hereinafter the EFSA) can be submitted and covered bonds issued as of 1 October 2019.

At the beginning of 2020, the first issue of covered bonds was carried out by an Estonian issuer which also constituted as a first covered bond from the Baltic region. An issue with a maturity date of 5 years in the size of EUR 500 million was carried out by Luminor Bank. The covered bonds were listed on the Irish Stock Exchange on 11 March 2020.

In June 2020, another Estonian Bank – LHV – issued its covered bonds (with a maturity date of 5 years in the size of EUR 250 million), which were also listed on the Irish Stock Exchange.

#### **II. STRUCTURE OF THE ISSUER**

Covered bonds can be issued by a credit institution which has obtained an additional authorisation to issue covered bonds from the EFSA.

For obtaining such additional authorisation, the credit institution must have in place the technology and other technological tools and systems, security systems, control mechanisms and systems necessary for the issuance of covered bonds and the administration of covered bond portfolios. Moreover, it must have a risk management system that enables the issuer to adequately identify, measure and manage the risks associated with the administration of the covered bond portfolio.

The pool of cover assets will be kept by the issuer itself and it will not be held by SPV. This means that the issuer has to maintain a separate cover register for both below types of covered bonds. The purpose of the cover register is to collect, systematise and store data about the cover pool required for mortgage covered bonds and mixed asset covered bonds. The register is kept in accordance with the internal rules that state the procedure for entering and deleting assets in the register. The entry of the register states information which is necessary to detect the contract or security that is the basis of the claim.

Lastly, the issuer has to appoint a cover pool monitor, who monitors the performance of the duties of the issuer. In specific, whether the cover pool, cover register, the valuation of immovable properties encumbered with a mortgage securing credit and included in the cover pool, the issuer's risk management and reporting, and the terms and conditions of covered bonds are in compliance with the requirements of law.

#### **III. COVER ASSETS**

##### **Primary cover assets**

At least 80% of the main collateral of the relevant covered bond portfolio has to comprise of primary cover assets. The law constitutes different primary cover assets for mortgage covered bonds and mixed covered bonds.

First, the primary cover assets of mortgage covered bonds can be only the issuer's claims that arise from a credit granted to a natural person against a mortgage that is established on a residential property situated in the territory of a European Economic Area (hereinafter EAA) country.

Second, the primary cover assets of mixed covered bonds can be only the issuer's claims that arise from the following:

- 1) a mortgage credit;
- 2) a housing construction credit – a credit granted to a natural person against a mortgaged residential building plot situated in the territory of an EEA country;
- 3) a commercial mortgage credit – a credit granted to a legal person against a mortgaged residential property, mortgaged residential building plot or mortgaged commercial immovable property situated in the territory of an EEA country;
- 4) a credit granted to, or debt securities issued by, an EEA country;
- 5) a credit granted to, or debt securities issued by, a regional government or local authority of an EEA country;
- 6) a credit granted to, or debt securities issued by, an EEA country's legal person governed by public law;
- 7) a credit or debt securities guaranteed by an EEA country or a regional government or local authority of an EEA country.

#### **Substitute collateral**

In addition to primary cover assets, the cover pool may consist of substitute collateral. Substitute collateral may be:

- 1) claims on or guaranteed by central banks within the European System of Central Banks, and central governments, public sector entities, regional governments or local authorities of the Member States of the EU;
- 2) claims on or guaranteed by third-country central governments and central banks, multilateral development banks and international organisations that qualify for the credit quality step 1<sup>1</sup>;
- 3) claims on or guaranteed by third-country public sector entities, regional governments and local authorities, for which a risk weight has been assigned the same way as for claims on credit institutions and investment firms or central governments and central banks and which qualify for the credit quality step 1 according to the risk weight so assigned;
- 4) claims specified in clauses 2) and 3), which qualify as a minimum for the credit quality step 2, provided that they do not exceed 20% of the nominal value of the outstanding covered bonds in the covered bond portfolio that they cover;
- 5) claims on credit institutions and investment firms, which qualify for the credit quality step 1, provided that they do not exceed 15% of the nominal value of the outstanding covered bonds in the covered bond portfolio that they cover;
- 6) claims on credit institutions and investment firms in the EU with a term to maturity not exceeding 100 days, which qualify as a minimum for the credit quality step 2, provided that they do not exceed 15% of the nominal value of the outstanding covered bonds in the covered bond portfolio that they cover;
- 7) net claims arising from derivative instruments that meet the conditions provided by law, which cannot be treated as the claims specified in clauses 5) or 6), provided that they do not exceed 12% of the nominal value of the outstanding covered bonds in the covered bond portfolio that they cover.

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<sup>1</sup> A CQS is a simplified and standardized scale of credit quality, mapped to the credit ratings of the largest credit rating agencies. Steps are defined in the Commission Implementing Regulation (EU) 2016/1800 of 11 October 2016 laying down implementing technical standards with regard to the allocation of credit assessments of external credit assessment institutions to an objective scale of credit quality steps in accordance with Directive 2009/138/EC of the European Parliament and of the Council. Moreover, the assessment has to be in accordance with Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012.

## **IV. VALUATION AND LTV CRITERIA**

### **Valuation and revaluation**

The law states that the valuator of the property standing as security for mortgage credit has to comply with the following requirements:

- > has sufficient knowledge, experience and skills;
- > be sufficiently independent from the process of deciding on the granting of credit as to provide an objective and impartial assessment of the value of the immovable property.

The requirements for the appraisal of immovable property standing as security are the following:

- > the immovable will be valued according to the good practice of property valuation that is based on uniform and well-established market practice;
- > it is in line with the good practice of property valuation;
- > the valuator detects and collects all the data necessary for the valuation and analyses all factors affecting the value of the property that is being evaluated;
- > the valuation is based on up-to-date and reliable data and based on an in-depth review.

The value of a property standing as security for a mortgage credit entered in the cover register must be regularly reviewed at least once a year and revaluated, if necessary. The purpose of the revaluation of the property is not to obligate the issuer to change the value of the property each time, but to review the property in the portfolio in general and to update it, based on the information available to the issuer, in case there has been a change in the value of the assets.

The value of a property standing as security for a mortgage credit, entered in the cover register, must extraordinarily be reviewed and revaluated, in the event of a significant change in market conditions, and in the event that the information available to the issuer indicates that a significant decline has occurred or is occurring on the national or local real estate market, including if it concerns only one specific property type, residential building type or other narrower category of properties.

### **Loan-to-Value**

The claims of an issuer arising from a mortgage credit may be used as a cover asset of mortgage covered bonds in an amount of up to 70% of the value of the property securing the mortgage credit. Nevertheless, all the issuer's claims arising from the mortgage credit entered in the cover register are included in the cover pool in their entirety.

A mortgage accounting for at least 110% of the issued credit amount must be established on the property securing a mortgage credit to be entered in the cover register. The sum of the mortgage may exceed the value of the property securing the credit.

## **V. ASSET – LIABILITY MANAGEMENT**

An issuer must, at least once every 3 months, perform a stress test on the covered bond portfolio to assess the risks set out in the stress testing methodology according to the internal rules. The managers of the issuer are responsible for ensuring the performance of stress tests.

If the value of the cover pool, as calculated during the stress test, no longer meets the following requirements, the cover assets in the cover register must be increased by the maximum deficiency determined as a result of the stress test:

- 1) the present value of all covered bonds of the same type and the net liabilities arising from derivative instruments entered in the cover register must be covered by a cover pool at any time. The present value of the cover pool must exceed the liabilities covered by at least 2%.
- 2) the nominal value of all covered bonds of the same type must be covered by a cover pool of at least equivalent nominal value at any time. If the known redemption value of covered bonds is higher than their nominal value at the time of issuance, all covered bonds of the same type must be also covered by a cover pool whose nominal value is at least equal to the redemption value of the covered bonds. The nominal value of the credits must be deemed equal to the outstanding amount of the credits.
- 3) if the nominal value of the cover pool exceeds the nominal value of all the covered bonds of the same type by at least 5%, it must be presumed that the requirement in clause 1) is met for the relevant covered bond portfolio.

## **VI. TRANSPARENCY**

In Estonia, there is no establishment of the National Transparency Template. Covered bonds issued by a credit institution registered in Estonia, which has received additional authorisation from the EFSA, are registered in the Estonian register of securities. The EFSA publishes a decision to grant, amend or revoke an additional authorisation on its website no later than on the business day following the day of making such decision.

In addition to the disclosure obligation arising from other legislation, an issuer must disclose information about covered bond portfolios once a quarter. Information about the first 3 quarters of a year must be disclosed within 1 month of the end of the respective quarter. Information about the fourth quarter must be disclosed within 2 months of the end of the quarter. The disclosed information must be available on the issuer's website about at least the last 5 years.

The following information must be disclosed based on the types of covered bond portfolios:

- 1) the nominal value and the present value of outstanding covered bonds and of the cover pool;
- 2) the maturity structure of the covered bonds and the cover pool;
- 3) the percentage of fixed-interest cover assets in the cover pool and the percentage of fixed-interest covered bonds in the liabilities of the covered bond portfolio;
- 4) the graduated breakdown of the interest rates on fixed-interest and non-fixed-interest cover assets;
- 5) the percentage of cover assets denominated in a foreign currency in the cover pool and the percentage of covered bonds denominated in a foreign currency in the liabilities of the covered bond portfolio;
- 6) the geographical distribution of the value of cover assets, at least to the accuracy of the country, based on the location of the property standing as security for a mortgage credit or commercial mortgage credit, and the location of the debtor or issuer in the case of other cover assets;
- 7) the distribution of substitute collaterals, in terms of their value, between the types of substitute collateral;
- 8) the level of the liquidity buffer;
- 9) the percentage of the amount of substitute collaterals, which have been in default for over 90 days or which the issuer estimates to be doubtful, in the cover pool.

In addition, the following information must be disclosed on the primary cover assets of mortgage covered bonds:

- 1) the graduated breakdown of the amounts of mortgage credits;
- 2) the percentage of the amount of mortgage credit, which have been in default for over 90 days or which the issuer estimates to be doubtful, in the cover pool.

In addition, the following information must be disclosed on the primary cover assets of mixed asset covered bonds:

- 1) the graduated breakdown of the amounts of debt obligations;
- 2) the distribution of debt obligations, in terms of their value, between the types of primary cover assets of mixed asset covered bonds;
- 3) the percentage of the amount of debt obligations, which have been in default for over 90 days or which the issuer estimates to be doubtful, in the cover pool.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The issuer's general meeting has the authority to appoint a monitor. A monitor is appointed for a term that must not be less than 1 year. The monitor inspects whether the issuer is fulfilling its obligations. The monitor is free to choose when the inspections will be carried out.

The duties of a monitor are to verify:

- 1) the compliance of stress testing of a covered bond portfolio and the changes introduced to the covered bond portfolio as a result of stress testing with requirements;
- 2) the existence of a sufficient cover pool and its compliance with requirements;
- 3) the compliance of the maintenance of the cover register with requirements;
- 4) the compliance of the valuation of immovable properties encumbered with a mortgage securing credit and included in the cover pool with requirements;
- 5) the compliance of the issuer's risk management and reporting with requirements;
- 6) the compliance of the terms and conditions of covered bonds with requirements.

The monitor notifies the issuer of any deficiencies detected during verification in a format that can be reproduced in writing and sets a reasonable deadline for the elimination of the deficiencies. In case the deficiencies are not fully eliminated by that deadline, the monitor must notify the EFSA.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

In case the issuer is declared bankrupt, a covered bond portfolio shall be considered to be separated from the other assets of the issuer. A cover pool shall not be part of the issuer's bankruptcy estate and a moratorium shall not extend to a covered bond portfolio.

After the separation of a covered bond portfolio, an independent pool of designated assets is formed in which the cover pool and the proceeds received therefrom can only be used to satisfy the claims of the holders of the respective type of covered bonds and of the counterparty to the derivative instrument entered in the corresponding cover register and to cover the expenses related to the management of the covered bond portfolio.

If an issuer is declared bankrupt or the compulsory dissolution of an issuer is decided, a court appoints, on the proposal of the EFSA, a cover pool administrator for covered bond portfolios in the ruling on the bankruptcy or the ruling on the compulsory dissolution. The appointment is necessary to secure the continuance of the operation of the cover bond portfolio, detect the solvency of the portfolio and secure the rights of the owners of cover bonds and derivative counterparties.

Upon the appointment of a cover pool administrator, the right to manage and dispose of covered bond portfolios is transferred to the cover pool administrator. The cover pool administrator shall manage covered bond portfolios with the necessary diligence arising from their nature, and in a manner ensuring that the liabilities arising from covered bonds and from the derivative instruments entered in the cover register are met in the best possible way. To this end, the cover pool administrator has the right to transfer and encumber the cover pool, enter into derivative instruments on the account of the cover pool, and perform other necessary operations.

The cover pool administrator has the right to use the cover pool and the proceeds to be received therefrom to cover the expenses necessary for the management of a covered bond portfolio.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The Estonian legislation is in compliance with the following European legislation that sets out requirements regarding covered bonds:

- > Directive 2009/65/EC of the European Parliament and of the Council of 13 July 2009 on the coordination of laws, regulations and administrative provisions relating to undertakings for collective investment in transferable securities (UCITS);
- > Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012;
- > Directive 2014/59/EU of the European Parliament and of the Council of 15 May 2014 establishing a framework for the recovery and resolution of credit institutions and investment firms and amending Council Directive 82/891/EEC, and Directives 2001/24/EC, 2002/47/EC, 2004/25/EC, 2005/56/EC, 2007/36/EC, 2011/35/EU, 2012/30/EU and 2013/36/EU, and Regulations (EU) No 1093/2010 and (EU) No 648/2012, of the European Parliament and of the Council Text with EEA relevance.

Prior to issuing covered bonds, an issuer must adapt its risk management system to enable it to adequately identify, measure and manage the risks associated with the administration of the covered bond portfolio.

As of preparation of this country chapter, an amended version of the covered bond legislation is being prepared in Estonia in order to transpose the covered bond directive<sup>2</sup> into Estonian legislation as well as to harmonise Baltic States' legislation for issuing covered bonds<sup>3</sup>. According to the Electronic Coordination System for Draft Legislation (EIS), the draft law for amending the covered bonds act has passed the public consultation phase. After further coordination with the Ministry of Justice, the draft law will be submitted to the Estonian Parliament. The amended covered bonds act is planned to enter into force in July 2021.

**Issuers:** Luminor Bank AS, AS LHV Pank

**ECBC Covered Bond Comparative Database:** [http://www.ecbc.eu/framework/117/Estonian\\_Covered\\_Bonds](http://www.ecbc.eu/framework/117/Estonian_Covered_Bonds)



COVERED BOND : Luminor Bank AS (1 pool), AS LHV Pank.

<sup>2</sup> Directive (EU) 2019/2162 of the European Parliament and of the Council of 27 November 2019 on the issue of covered bonds and covered bond public supervision and amending Directives 2009/65/EC and 2014/59/EU.

<sup>3</sup> <https://www.rahandusministeerium.ee/en/news/baltic-states-will-harmonise-legislation-issuing-covered-bonds>.

### **3.13 FINLAND**

By Timo Ruotsalainen, Aktia Bank plc

#### **I. FRAMEWORK**

There are currently eight issuers of Finnish covered bonds. In Finland, the legal basis for covered bond issuance is the Act on Mortgage Credit Bank Operations (HE 42/2010). The current legal framework replaced the old Act on Mortgage Credit Bank (1999) and entered into force on 1 August 2010. Current legislation overruled the special banking principle and gathered all Mortgage Credit Bank related legislation under the same act. Besides, other technical changes, e.g. mixed pools, are allowed.

Derivatives contracts counterparties selection is related to the structure of the issuer. Both internal and external counterparties apply.

#### **II. STRUCTURE OF THE ISSUER**

The issuer of Finnish covered bonds can be a universal bank or a specialist mortgage bank. Generally, entities that can issue covered bonds are credit institutions authorised to engage in mortgage credit bank operations. The issuer of Finnish Covered Bonds can still be a specialised bank, but deposit banks or credit entities are entitled to apply for a licence to issue covered bonds. The existing specialised banks tend to stay in business in the way they have been operating since being established. Unless, it is a mortgage credit bank, the issuer must obtain a license to engage in mortgage credit bank operations (i.e., issue covered bonds).

The Finnish Covered Bond Law stipulates certain requirements to receive a covered bond issuance license. The covered bond issuer should provide a business plan, show stability, expertise in mortgage credit operations, risk management and practices concerning valuation of collateral. Interestingly, the requirements to receive a Finnish Covered Bond License seem very similar to the requirements to receive a German Pfandbrief License.

The issuer holds the cover assets on the balance sheet. A subsequent transfer of the cover assets to another legal entity is not taking place. A direct legal link between single cover asset and the covered bonds issued does not exist. All obligations from Finnish Covered Bonds are direct and unconditional obligations of the issuing bank as a whole. In the case of insolvency, the cover pool is segregated by law from the general insolvency estate and is reserved only for the claims of the holders of Finnish Covered Bonds.

Under the previous legal framework, only bonds covered by mortgages were issued by Finnish mortgage banks. A separate cover pool was to be established if these banks were to start the issuance of public-sector backed Finnish Covered Bonds. Under the new law, mixed pools comprising mortgage loans as well as eligible public sector assets are allowed.

#### **III. COVER ASSETS**

Finnish covered bonds have a cover pool register that includes all cover pool assets, covered bonds and derivatives. Eligible assets for Finnish covered bonds are residential mortgage loans (including shares in Finnish housing companies), commercial mortgage loans, public sector loans and substitution assets. At least 90% of the cover pool loans must consist of residential mortgage loans, public sector loans or substitution assets. Cover pool assets can be within European Economic Area (EEA) countries.

Enforcement of non-Finnish cover pool assets would usually be determined by the laws of the jurisdiction in which the assets are located. Due to European Union law, inside the EU, enforcement is safeguarded in all Member States anyway. However, Finnish issuers have so far only Finnish assets in the covered bond pools.

Derivatives may also be registered in the cover pool. The geographical scope of cover assets is restricted to the European Economic Area. Residential mortgage loans, shares in housing companies as well as commercial

mortgage loans up to 10% of the total pool are eligible as cover assets. Public sector loans in accordance with Article 129(1) CRR are also eligible.

Specialised mortgage credit bank can grant an intermediate credit to a deposit bank or a credit entity. This intermediate credit must be covered with eligible cover assets as stated above. These assets must also be recorded into the cover register.

Up to 20% of the mortgage cover pool is allowed to consist of substitute cover assets; bonds and other debt obligations issued by the State, a municipality or another public-sector organisation or another credit institution rather than one belonging to the same consolidation group as the issuer. A guarantee as for own debt granted by a public sector organisation or credit institution referred above; a credit insurance given by an insurance company other than one belonging to the same group, referred to in the Act on Supervision of Finance and Insurance Groups; cash assets of the issuer deposited in the Bank of Finland or a deposit bank with the restriction that if the issuer is a deposit bank the cash deposit may not be in a deposit bank belonging to the same consolidation group as the issuer.

ABS or MBS tranches are not eligible for the cover pool. Derivatives are eligible for the cover pools only if they are used for hedging purposes. The nature of the cover pool is dynamic. Currency risk is perfectly matched, as the law requires cover assets to be in the same currency as the covered bonds.

#### **IV. VALUATION AND LTV CRITERIA**

The property valuation within the legal framework for covered bonds in Finland is based on market values, valuations are based on "current value", market value determined in accordance with FFSA regulations. Based on the updated regulation, the issuer needs to monitor the valuation of the property also based on statistical methods (indexed value) quarterly and set limits for the acceptable changes of the values. Should the value exceed or drop below the limits the property valuation needs to be updated accordingly.

There are different LTV levels for residential and commercial mortgage loans: 70% of the value of the residential property and 60% of the value of the commercial property accepted. This LTV is a relative limit, i.e. when a loan exceeds the 60%/70% limit, the part of the loan up to 60%/70% LTV remains eligible to the cover pool. A loan placed as collateral for a covered bond may not exceed the current value of the property standing as collateral.

#### **V. ASSET – LIABILITY MANAGEMENT**

There are legal standards for Asset-Liability Matching in the Finnish Covered Bond System. For instance, the aggregate interest received on the cover assets in any 12-month period must exceed the interest paid on the outstanding covered bonds. This regulation takes derivatives for hedging purposes into account.

The total amount of collateral of covered bonds shall continuously exceed the remaining combined capital of the covered bonds.

The net present value of the total amount of collateral of covered bonds shall continuously exceed by at least 2% the total net present value of the payment liabilities resulting from the covered bonds. The net present value test helps mitigate interest-rate, currency and liquidity risk.

As mentioned above, interest receivable on cover assets must be sufficient to cover interest payable on covered bonds on a twelve-month rolling basis. Moreover, the test needs to be stressed by +/- 1%. In case of a breach of one of these rules mentioned, the issuer might face sanctions from the FSA. Ultimately, the issuer might face the loss if its licence. In addition to the 2% net present value legal minimum, further overcollateralisation may be committed by contract. Non-performing loans (defined as 90 days past due) are excluded from cover tests. Assets that are ineligible for Finnish covered bonds (e.g. non-performing loans) are excluded from the cover tests but can be retained in the cover pool and lead to additional overcollateralisation.

## **VI. TRANSPARENCY**

The annual and interim reports of the issuer indicate, in addition to that provided in the act on Credit Institutions, the basis of the valuation of the collateral and the amount of residential mortgage loans and possible intermediary loans and public sector loans issuer has granted, as well as the amount of covered bonds issued.

While there are no statutory transparency rules, Finnish covered bond issuers have adopted the ECBC Label initiative for Covered Bonds and publish Finnish National Transparency Template on their websites:  
<https://www.coveredbondlabel.com/issuers/national-information-detail/9/>.

The ECBC Label Transparency Guidelines included in the Covered Bond Label Convention for 2014 are fully aligned and compliant with Art. 129 (7) CRR.

On top of the regulatory requirements all issuers provide additional information about the cover pools, ratings and other relevant topics on their websites. Please find the information about the website below (section X).

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The issuer carries out the monitoring of the cover pool. The issuer reports to the FSA on a monthly basis. With regard to UCITS 52(4), this supervision of a specialised bank as issuer of the covered bond is compliant to the "special supervision". The FSA is responsible for overall supervision, covered bond licensing, issuing regulations and compliance with the law.

The FSA has the legal power to take appropriate measures. It is allowed to conduct inspections at the bank in question or to require documents. Also, the FSA could issue a public warning or admonition. Ultimately, it is up to the FSA to revoke the banking license of the bank in question.

With regard to UCITS 52(4), this supervision of a specialised bank as issuer of the covered bond is compliant to the "special supervision".

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

A cover register allows identifying the cover assets. The legal effect of a registration of assets into the cover register is to create the priority claim of covered bond holders to these cover assets in case of an insolvency of the issuer. The cover register is managed by the corresponding bank, which in turn is supervised by the FSA.

The cover register contains information about the principle amount of covered bonds issued, the mortgages and substitute assets covering these bonds as well as derivative transactions hedging these bonds or funds placed as their collateral. The Finnish Covered Bond Law specifically excludes set-off against cover pool assets. The law also specifically excludes claw-back risk.

### **Asset segregation**

The cover pool is a part of the general estate of the bank as long as the issuer is solvent. If the insolvency proceedings are opened, by operation of law, the assets recorded in the cover registers are excluded from the general insolvency's estate. When the insolvency proceedings are opened, the FSA appoints a special cover pool administrator. Within the insolvency procedure, the derivative counterparties rank pari passu to covered bond holders. The cover assets do form a separate legal estate, which is ring-fenced by law from other assets of the issuer.

### **Impact of insolvency proceedings on covered bonds and derivatives**

Covered bonds do not automatically accelerate when the issuing institution becomes insolvent. The legal consequences for the derivatives in case of an insolvency of the issuing bank depend on the relevant contracts. The cover pool administrator can only accelerate the covered bonds if the cover tests can no longer be fulfilled. This would trigger the sale of the cover pool assets.

Following issuer default, the regulator is not a manager or servicer of last resort. However, a cover pool supervisor is appointed to supervise the interests of covered bondholders, with powers to direct the issuer's general administrator.

The cover pool supervisor will supervise cover pool cash flows and payments to covered bondholders. The general administrator also has powers to act in the interests of the covered bondholders under the direction of the cover pool supervisor. This includes the ability to assign the liability for a covered bond as well as the related cover pool assets to another licensed covered bond issuer (with the permission of the FSA).

#### **Preferential treatment of covered bond holders**

Covered bond holders enjoy a preferential treatment as the law stipulates the separation of the cover assets on the one hand and the insolvency's estate on the other.

The satisfaction of the covered bond holders is not limited to the cover assets in the Finnish system. On the contrary, those creditors also participate in the insolvency proceedings in respect of the remaining assets of the bank.

A moratorium on the insolvency's estate cannot delay the cash flows from the cover assets and, therefore, endanger the timely payment of covered bond holders.

#### **Access to liquidity in case of insolvency**

With the appointment of the cover pool administrator, this person acts on behalf of the covered bond holders. The pool administrator has access to the cover assets. Cover assets may only be disposed with the consent of the FSA. Additionally, the pool administrator has also the first access on cash flows generated by the cover assets. The law foresees a possibility for the pool administrator together with the bankruptcy trustee to take up a loan on behalf of the cover pool to create more liquidity.

Up to 20% of the cover pool may consist of liquid substitute cover assets. Substitute assets are deposits, bonds or guarantees of public sector entities or credit institutions and certain credit insurance. With the consent of the FSA, this limit may even be higher. As all cover assets entered into the cover register are ring-fenced in case of an insolvency of the issuer, this results also in the insolvency remoteness of voluntary overcollateralisation.

Some Finnish covered bonds mitigate liquidity risk via contractual twelve-month maturity extensions ("Soft Bullet"). The extension provides additional time for principal amounts to be refinanced. Combined with the interest coverage test, maturity extensions improve the chance that principal and interest payments can be met without refinancing the covered bonds for the first twelve months after issuer default.

### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Finnish Covered Bonds comply with the requirements of Art. 52(4) UCITS Directive. The legislation when taken together with the practices processes and procedures across the industry should fall within the criteria of Article 129 of the Capital Requirements Regulation (CRR)<sup>1</sup>. Therefore, these bonds are 10% risk weighted in Finland. Following the common practice in Europe, they accordingly enjoy a 10% risk weighting in most European countries.

Finnish Covered Bonds are also eligible in repo transaction with national central bank, i.e. within the Euro-zone.

As far as the domestic issuers are aware, there are no further specific investment regulations regarding Finnish Covered Bonds.

European Commission has approved and published the legislative package on Covered Bonds (Directive (EU) 2019/2162 and Regulation (EU) 2019/2160). The Directive dated 27 November 2019 has entered into force and the national transposition period will last until 8 July 2021. National measures shall be applied starting at the latest from 8 July 2022.

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR):  
<https://hypo.org/ecbc/covered-bonds/>.

With regards to the Regulation, it will apply from 8 July 2022 (Regulation Art 2), in parallel with the deadline for the national application of the Directive.

Finnish Covered Bond legislation includes already most of the topics described in the proposals for the Articles. The new legislation will be more detailed mirroring the requirements of the above-mentioned Directive and Regulation. The likely amendments will include:

- > The updated levels of regulative overcollateralization [5%] and LTV cap [80%].
- > The structure of Liquidity Buffer for a Cover Pool (The Article 16).
- > The structure of the issuance license introducing separate permission for each individual Covered Bond programme.
- > Determination of the terms triggering the Soft Bullet structure.

## **X. REGULATIVE LIMITS IN MORTGAGE LENDING**

Financial service providers have a statutory obligation to identify and know their customers.

The loan cap limiting the maximum LTV level is 90%. For a first home purchase the cap is at 95%.

Borrower's ability to pay the loan and handle the regular living costs is stress tested with 6% interest rate.

**Issuers:** Aktia Bank PLC, DANSKE BANK, OP Mortgage Bank, Nordea Mortgage Bank, Ålandsbanken AB, Suomen Hypoteekkiyhdistys, SP-Mortgage Bank Plc, Oma Säästöpankki.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/19/Finnish\\_Covered\\_Bonds](https://www.ecbc.eu/framework/19/Finnish_Covered_Bonds)



COVERED BOND : OP Mortgage Bank (1 pool), Danske Mortgage Bank Plc (1 pool), Nordea Mortgage Bank Plc (1 pool), Sp Mortgage Bank Plc (1 pool).



### **3.14 FRANCE**

Three main covered bond issuing structures exist in France today:

- > *Sociétés de Crédit Foncier (SCF)*;
- > *Sociétés de Financement de l'Habitat (SFH)*;
- > *Caisse de Refinancement de l'Habitat (CRH)*.

While several countries allow ordinary credit institutions to issue covered bonds subject to the segregation of the cover pool in their balance sheet, France requires the set-up of an ad hoc company which is a duly licensed specialised credit institution (licensed by the *Autorité de Contrôle Prudentiel et de Résolution (ACPR)*, the French Banking Authority). The ad-hoc companies are known as *société de financement de l'habitat (SFH)* and *société de crédit foncier (SCF)*; these are totally distinct from the other entities of the group to which they belong and are exclusively dedicated to the issuance of covered bonds named respectively *obligations de financement de l'habitat (OHs)* and *obligations foncières (OFs)* and the management of the assets backing those issues (the "cover pool").

*Caisse de Refinancement de l'Habitat (CRH)* is the sole entity in its category. It is also a duly licensed specialised credit institution which acts independently and is distinct from the banking groups which are being financed.

Regulation of *Société de Crédit Foncier* and *Sociétés de Financement de l'Habitat* was substantially strengthened in 2014 by Decree n° 2014-526 dated 23 May 2014 and Arrêté dated 26 May 2014. Law n° 2016-1691 dated 9 December 2016 relating to "transparency, fight against corruption and modernisation of economy" (known as the "Sapin II Law") has amended the legal eligibility criteria of SCF's assets to allow SCF to grant secured loans benefiting from a financial guarantee constituted of real estate's loans receivables as it is already the case for the SFH. It constitutes a new step towards the legal convergence of the various French regimes.

The French covered bond legislation is currently being amended to be in line with the EU Covered Bond Directive, with the aim to comply with the 8 July 2023 milestone. There are still undergoing discussions between the French Banking Federation and the French authorities in connection with the finalization of the text, which will then be sent to the "Conseil d'Etat" for validation and subsequent presentation before the French Parliament for final vote. The law will enter into force after publication in the Journal officiel.

Ordonnance n°2021-858 of 30 June 2021 on the transposition of the EU CB Directive 2019/2162 was published on 1 July. The ordonnance proposes the adoption of a number of legal measures necessary for the transposition of EU CB Directive into French law. The legal decree n° 2021-898 on the transposition was published on 7 July 2021 in the Journal Officiel n 0156 (see link). In addition, modifications to secondary regulation (reglement 99-10) are expected in September.

### **A – SOCIÉTÉ DE FINANCEMENT DE L'HABITAT (SFH) AND THE SOCIÉTÉ DE CRÉDIT FONCIER (SCF)**

By Cristina Costa, Société Générale, Alexis Latour, BNP Paribas and Jennifer Levy, Natixis

#### **I. FRAMEWORK FOR SFH AND SCF**

The SCF/SFH are governed by Articles L.513-2 et seq. and R.515-2 et seq. of the French Monetary and Financial Code (the "Code"). This stringent legal framework is specifically designed to protect the holders of the OFs and OHs. As a credit institution, the SCF/SFH are also governed by French general banking regulations.

The SFH/SCF structure can make use of the implementation of the EU Collateral Directive 2002/47/EC, as amended, under French law (implemented into the Code under articles L. 211-36 and seq.), which allows for a segregation through either a remittance (*remise*), a pledge (*nantissement*) or the transfer by way of security of the full title (*cession en pleine propriété à titre de garantie*) of the home loans' receivables without an actual

transfer (true sale) of these receivables to the issuer. Pursuant to article L.211-38 of the Code, the transfer by way of security and the pledge shall be enforceable even when the relevant collateral provider is subject to an insolvency proceeding.

The sponsor bank remits, pledges or transfers collateral to a dedicated subsidiary, which is a regulated French specialised credit institution with limited purpose licensed as a SFH/SCF (e.g. issuing covered bonds for the purpose of providing financing to the sponsor bank). The covered bond proceeds are used to fund advances to the respective sponsor bank(s). The covered bonds are secured by the legal privilege over the assets of the issuer (advances to the sponsor bank(s)), which are in turn secured by a pledge over cover assets (i.e. residential home loans), which remain on the sponsor bank's balance sheet (and/or on the balance sheets of the respective subsidiaries, affiliates or group member banks). Upon a borrower enforcement notice (for example in case of default of the sponsor bank), the respective cover assets, including underlying securities, will be transferred without any formalities to the covered bond issuer.

## **II. STRUCTURE OF THE ISSUER**

The SCF/SFH is a credit institution licensed by the Autorité de Contrôle Prudentiel et de Résolution (ACPR), the French Banking Authority, with a single purpose: to grant or acquire eligible cover assets, as defined by Law, and to finance them by issuing respectively *OFs* and *OHS*, which benefit from a special legal privilege (the "Privilege"). It may also issue or contract other debts benefiting or not from the Privilege. The SCF/SFH operates under the close control of the ACPR, which requires it to comply with strict management rules in order to ensure the company's financial security.

## **III. COVER ASSETS**

There are no major differences between the SCF and the SFH. Admittedly, the SCF may refinance "public exposures" and commercial real estate loans receivables, while SFH cannot. Moreover, the SCF are not allowed to finance guaranteed home loan receivables above a threshold of 35% of the privileged assets of the SCF and the guarantor must not belong to the same group as the SCF. In contrast, SFH are allowed to refinance such receivables. The eligible assets of a SFH and SCF comprise, inter-alia:

- > Secured loans which, in accordance with Article L.513-3 of the Code include loans which are secured by a first-ranking mortgage over an eligible real estate, or by other real estate security interests that are equivalent to a first-ranking mortgage, or loans that are guaranteed by a credit institution, financing company (*société de financement*) or an insurance company with a shareholder's equity of at least €12 million and which does not belong to the same group as the relevant SCF according to Article L. 233- 16 of the French Commercial Code. The property must be located in France or in any other Member State of the EU, EE or in a State benefiting from the highest level of credit assessment given by an external rating agency recognised by the ACPR;

***In this paragraph, for SFHs, only home secured loans will be considered as eligible assets while commercial and home secured loans can be included in SCFs' cover pools.***

- > Grant to any credit institution loans guaranteed by the remittance (*remise*), the transfer (*cession*) or the pledge (*nantissement*) of receivables pursuant to and in accordance with the provisions of Articles L.211-36 to L.211-40 or Articles L.313-23 to L.313-35 of the Code, regardless of the nature of such receivables, professional or otherwise, provided that they satisfy the eligibility criteria set out in Article L.513-3 of the Code;
- > Loans guaranteed by the *Fonds de Garantie à l'Accession Sociale à la Propriété* (Guarantee Fund for Social Access to Home Ownership);
- > ***Only SCFs:*** exposures to public entities which, in accordance with Article L.513-4 of the Code include, *inter alia*, exposures to public entities such as states, central banks, local authorities or state-owned enti-

ties located within the EEA, in a Member State of the EU, in the United States of America, Switzerland, Japan, Canada, Australia or New Zealand, or if not located in those jurisdictions, such public entities must comply with specific limits and level of credit assessment given by an external rating agency recognised by the ACPR;

- > Units or notes (other than subordinated units or subordinated notes) issued by French securitisation vehicles, or other similar vehicles governed by the laws of a Member State of the EU or the EEA if (i) their assets comprise at least 90% of secured loans or other receivables benefiting from the same level of guarantees and (ii) such units or notes benefit from the highest level of credit assessment promissory notes (*billets à ordre*); and
- > Substitution assets, under certain liquidity and maturity conditions and provided that their aggregate value is up to a maximum amount of 15% of the outstanding covered bonds.
- > Within the limit of the liquidity buffer, in addition to substitution assets, debt securities (*titres de créances*) issued or guaranteed by a central administration of a Member state of the European Union and cash invested on accounts opened within the books of a central bank of a Member State of the European Union which comply with the criteria listed in 1(a) of Article 416 of the Capital Requirements Regulation n°575/2013 dated 26 June 2013.

#### **IV. VALUATION AND LTV CRITERIA**

Loans in the cover pool can be financed by *OFs and OHs* and other privileged debt up to the amount of: i/ the remaining principal balance of the loan; or ii/the value of the real estate financed or given as collateral multiplied by the financing coefficient, whichever is lower.

This financing coefficient is equal to:

- > 60% of the value of the financed real estate for guaranteed loans, or of the assets given as collateral for residential mortgages;
- > 80% of the value of the real estate in the case of loans that were granted to individuals either to finance the construction or purchase of a home, or to finance both the acquisition of the undeveloped land and the cost of building the home;
- > 100% of the value of the real estate financed, in the case of loans guaranteed by the *Fonds de garantie à l'accession sociale* (Guarantee Fund for Social Home Accession).

The real estate financed by the loans is valued according to the French mortgage market accepted practice and defined by law (regulation n°99-10). **Real estate valuations must be based on their long-term characteristics. Under banking regulation (Arrêté of the 3<sup>rd</sup> of November 2014), real estate values are considered as part of the risks of sociétés de crédit foncier. The valuations are made by independent experts in compliance with banking regulation.**

Regarding valuations methods, different options are available (full valuation, use of statistic methods) that depend on the property use (residential or professional (commercial)), the loan size and the property value. For statistical methods, the real estate values are based on the index provided by INSEE (*Institut National de la Statistique et des Études Économiques*) or on the index provided by Notaries (PERVAL). The real estates are revaluated on an annual basis.

Among his duties, the Specific Controller controls the eligibility, composition and valuation of the assets. The valuation and revaluation methods as well as their results are annually validated by the specific controller and published in the annual reports.

## **V. ASSET/LIABILITY AND RISK MANAGEMENT**

The *SCF/SFH* must comply with asset/liability rules as required by banking regulations and, in particular, it has to ensure the matching of its assets and liabilities in terms of interest rates and maturities.

### **Market risks**

The *SCF/SFH* must manage and hedge market risks on its assets, liabilities and off-balance sheet items: interest rate risks, currency risks, liquidity and maturity mismatches between liabilities and assets. The surveillance of these points is part of the duties of the Specific Controller.

### **Coverage ratio**

At all times, the total value of the assets of the *SCF/SFH* must be, at least, after weighting, equal to 105% of the liabilities benefiting from the Privilege.

From a regulatory standpoint, the coverage ratio is calculated on the basis of the *SCF/SFH* accounting data by applying different weights to classes of assets:

- > Loans secured by a first-ranking mortgage or by an equivalent guarantee are weighted 100% up to their part eligible for privileged debt financing;
- > Residential loans guaranteed by a credit institution or an insurance company are weighted according to the following table below

<b>Rating of the guarantor (M/S/F)</b>	<b>Home loan guarantor not part of the same consolidation scope as the SFH or the SCF</b>	<b>Home loan guarantor is part of the same consolidation scope as the SFH</b>
<b>≥A3/A-/A-</b>	100%	80%
<b>≥Baa3/BBB-/BBB-</b>	80%	60%
<b>All other cases</b>	0%	0%

- > Senior securities of securitisation vehicles are weighted 100%, 80%, 50% or 0% subject to different criteria (essentially their rating).
- > **Only for SCFs:** public exposures and replacement assets are weighted 100%.

### **Specificities to SFH**

The SFH programmes also include a dynamic Asset Coverage Test (ACT) that requires the balance of the mortgages in the collateral pool to significantly exceed the balance of the outstanding covered bonds. The minimum level of OC will depend on the credit quality of the mortgages in the cover pool as assessed by the rating agencies. For all the existing programmes the maximum asset percentage applied in the ACT is 92.5%, which translates into a minimum overcollateralisation of at least 8%. However, that being said all SFH programmes currently exceed the minimum amount due to adjustments to the most recent rating agency methodologies.

When calculating the appropriate loan balance within the Asset Coverage Test (ACT), higher LTV loans are included in the pool, but loan amounts exceeding the respective cap do not get any value in the ACT. For all programmes, the LTV ratio of the mortgage loans cannot be more than 100%. In addition, the ACT gives no value to the loans in arrears or defaults.

### **Maturity mismatch**

The remaining weighted average life of the assets of the *SCF/SFH* should not exceed that of the covered bonds by more than 18 months. Cover pool assets taken into account are only those that are strictly necessary to

satisfy the minimum legal overcollateralisation requirement of 105%. In addition, new issuers and structures in run off might be exempted of this requirement.

### **Liquidity risk**

The *SCF/SFH* are required to ensure that its cash needs are constantly covered over a moving period of 180 days. The scope of this obligation will extend to forecasted principal and interest flows involving the *SCF/SFH*'s assets, as well as to flows related to its derivative instruments. Cash needs may be covered, if necessary, by replacement securities, assets eligible for Bank of France refinancing, and repurchase agreements with credit institutions that have the highest short-term credit ratings or whose creditworthiness is guaranteed by other credit institutions that have the highest short-term credit ratings.

The *SCF/SFH* are authorized to subscribe to its own *OFs* up to 10% of total privileged liabilities provided that these *OFs* are only used as collateral with the central bank or cancels them within 8 days.

### **Exposure on the group to which the SCF/SFH belongs**

Decree N° 2014-526 and *Arrêté* dated 26 May 2014 limits the ability of the *SCF/SFH* to hold assets in the form of exposures on entities of the group to which it belongs. When these assets exceed 25% of the non-privileged assets of the *SCF/SFH*, the difference between the exposure on these entities and the sum of 25% of the non-privileged assets together with the assets received in guarantee, pledged or full property, is deducted from the numerator of the coverage ratio.

## **VI. TRANSPARENCY**

As credit institution and listed company, the *SCF/SFH* must publish periodic financial information. The issuer must send a detailed annual report on risk management to the *ACPR*. Moreover, the *SCF/SFH* is also required to publish:

- > A quarterly report relating to the nature and the quality of their assets.
- > An annual report describing:
  - (i) the nature and the quality of their assets, the characteristics and breakdown of loans and guarantees, the amount of defaults, the breakdown of receivables by amount and by type of debtors, the proportion of early redemptions, the list and characteristics of senior securitisation securities and RMBSs they hold (if any), the volume and breakdown of replacement securities they hold, and
  - (ii) the extent and sensitivity of their interest-rate exposure.
- > A quarterly report, on 31 March, 30 June, 30 September and 31 December of each year relating to:
  - (i) the amount of its coverage ratio and the compliance with the limits they are requested to respect i.e. the 35% limit of guaranteed loans, the 10% limit of mortgage promissory notes etc.;
  - (ii) the data of the calculation of the coverage of its liquidity needs;
  - (iii) the gap of the average duration between those of its eligible assets and its privileged liabilities;
  - (iv) the valuation of the coverage of the privileged debts until their maturity by the available eligible assets and the estimation of the future new production of these eligible assets on the basis of prudent assumptions.

In addition, the *SCF/SFH* generally publishes on a quarterly basis the European Covered Bond Label Reports (under the Harmonised Transparency Template format), recently enriched by the additional regulatory requirements in connection with eligibility of the collateral to ECB open market operations.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The Specific Controller is appointed by the *SCF* and the *SFH* with the agreement of the ACPR. To ensure his independence, the Specific Controller cannot be an employee of either of the *SCF/SFH*'s statutory auditors, of the company that controls the *SCF/SFH*, or of any company directly or indirectly controlled by a company that controls the *SCF/SFH*.

The mission of the Specific Controller includes the following verifications:

- > that all assets granted or acquired by the *SCF/SFH* are eligible to the cover pool, and in the case of mortgage assets, that they are properly valued;
- > that the coverage ratio is, at any moment, at least, at 105%;
- > that the *SCF* comply with all the limits required by the regulation (i.e. the limit of the loans guaranteed by a credit institution or an insurance company, the limit of the mortgage promissory notes and the limit of the replacement assets);
- > that the "congruence", i.e. the adequacy of maturities and interest rates of assets and liabilities, is at a satisfactory level. The Specific Controller checks the different quarterly indicators before sending them to the ACPR, and
- > that, in general, the *SCF/SFH* complies with the law and regulations.

The Specific Controller certifies that the *SCF/SFH* complies with the coverage ratio rules on the basis of a quarterly issuance program, and for any issue of privileged debt of an amount equal or above EUR 500 m. These coverage ratio affidavits are required to be stipulated in issuance contracts where the debt benefits from the Privilege.

The Specific Controller reports to the ACPR, attends shareholders' meetings, and may attend Board meetings. The *SCF/SFH* operates under the constant supervision of the ACPR. Its management, its Specific Controller and its Statutory Auditors should be agreed by the ACPR.

All the above-mentioned reports should be sent to the ACPR together with the annual report of the Specific Controller and the annual reports of the Statutory Auditors.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Cover assets are segregated in the issuing specialised credit institution. Pursuant to Article L.513-11 of the Code, holders of *OFs/OHs* and other privileged debts have preferred creditor status and the right to be paid prior to all other creditors who have no rights to the assets of the *SCF/SFH* until the claims of preferred creditors have been fully satisfied.

Under the *SCF/SFH* legislation, the holders of the *OF/OH* benefit from the legal privilege over the *SCF/SFH*'s eligible assets. If the issuer becomes insolvent, the *OF/OH* and other privileged debts are paid in accordance with their payment schedule, and have priority over any of the programme's other debts or non-privileged creditors in relation to the programme's assets. All privileged debts rank *pari passu*. Until payment in full of such privileged liabilities, no other creditors may take action against the assets of the *SCF/SFH*.

The issuer may be subject to insolvency, but the *SCF/SFH* law provides for a regime which derogates in many ways from the French insolvency provisions:

- > **Legal Privilege / No acceleration of covered bonds as a result of insolvency of SFH:** in the event of an insolvency proceeding of the *SCF/SFH* (safeguard procedure, judicial reorganization or liquidation), all claims benefiting from the Privilège (including interest) must be paid on their due dates and in preference to all other claims. Until payment in full of all such preferred claims, no other creditors may take any action against the assets of the *SCF/SFH*;

- > **No nullity during the hardening period:** the provisions allowing an administrator to render certain transactions entered into during the hardening period (*période suspecte*) null and void are not applicable for the transfer of assets entered into by a *SCF/SFH* (provided that such transactions are made in accordance with their exclusive legal purpose and without fraud);
- > **Option to terminate ongoing contracts with insolvent counterparties:** in case of the opening of any insolvency procedure against the credit institution, which is acting as manager and servicer of the *SCF*, any contract may be immediately terminated by the *SCF/SFH* notwithstanding any legal provisions to the contrary;
- > **No impact of the hardening period:** the common provisions of French bankruptcy law affecting certain transactions, which entered into force during the months prior the insolvency proceedings during the hardening period, are not applicable to *SCF/SFH*.
- > **No extension of bankruptcy proceedings:** as an exception to the general French bankruptcy Law, bankruptcy proceedings or liquidation of a company holding share capital in a *SCF* or a *SFH* cannot be extended to the *SCF* or the *SFH*. As a result, the *SCF* or the *SFH* enjoys full protection from the risks of default by their parent company or the group to which it belongs.

#### **IX. RISK-WEIGHTING AND COMPLIANCE WITH EUROPEAN LEGISLATION**

The French covered bonds' legislation and regulation comply with the requirements of article 52(4) of the UCITS Directive. All covered bonds are UCITS compliant and CRR compliant (fulfilling criteria provided in article 129(1)). *OFs/OHs* which are CRR compliant have a 10% risk-weighting according to the Standardised Approach in the CRR if benefiting from a rating classified as STEP1. *OFs/OHs* can be eligible as Level 1 assets under LCR regulation provided they respect specific criteria.

## **B – CAISSE DE REFINANCEMENT DE L'HABITAT (CRH)**

By Marc Nocart, Caisse de Refinancement de l'Habitat

### **I. FRAMEWORK**

CRH was created in 1985 by French Government as a central agency, in order to develop the housing market in France; it aims at extending long-term funding to the loan retailers (currently French banks) in the specific legal framework of art 13 of law 85-685 of July 1985.

CRH was initially granted an explicit State guarantee, which has been replaced in 1989 by a Law-specific package consisting in an increase of the minimum overcollateralisation rate and a very strong legal privilege upon CRH's secured loans to banks.

Being the sole agency-type structure currently existing in France, CRH is operating under its dedicated legal framework. CRH received approval to issue bonds under Article 13 of act 1985-695 by letter of 17 September 1985 from the Minister for the Economy, Finance and Budget. CRH approval to operate is restricted to the sole funding, on a secured basis, of portfolios of eligible loans.

The Caisse de Refinancement de l'Habitat (previously Caisse de Refinancement Hypothécaire) is therefore a specialised credit institution whose sole function is to fund French domestic residential mortgage to individuals granted by the French banking system. CRH' operations are governed by the provisions of art L. 313-42 to L. 313-49 of Monetary and Financial Code.

CRH issues exclusively covered bonds and lends this market-sourced funding to banks, by strictly mirroring their terms and conditions (interest rate, maturity, currency), in full dedication to its legal mandate.

CRH's bonds are strictly regulated in order to provide bondholders with a very high credit quality and a strong legal privilege. They are governed by the Article 13 of act 1985-695 of 11 July 1985 as complemented by Article 36 of act 2006-872 of 13 July 2006.

CRH secured loans to banks take the form of mortgage promissory notes issued by the borrowing banks and held by CRH, secured by a pledge of eligible housing loans to individuals. They are governed by Articles L. 313-42 to L. 313-49 of the French Monetary and Financial Code which grant CRH, *inter alia*, a very strong privilege upon the covered pool.

In the case of a borrowing bank default, CRH becomes owner of the portfolio of housing loans without any formality notwithstanding any provision to the contrary.

### **II. STRUCTURE OF THE ISSUER**

*Caisse de Refinancement de l'Habitat*, a French corporation (*société anonyme*), is a specialised credit institution licensed by virtue of the decision taken on 16 September 1985 by the French Credit Institutions Committee (*Comité des Établissements de Crédit*).

CRH is therefore governed by the provisions of Articles L. 210-1 to L. 228-4 of the French commercial Code and Articles L. 511-1 et seq. of the French Monetary and Financial Code.

Its equity belongs to French banks, which as of 30 June 2020 was as follows:

> Crédit Agricole SA – Crédit Lyonnais	33.1%
> Crédit Mutuel – CIC	32.1%
> Société Générale – CDN	17.9%
> BPCE	9.1%
> BNP Paribas	7.8%

Every borrower is committed to become a shareholder of CRH, whose equity stake in CRH is proportionated to its weight in CRH's global regulatory weighted loans amount.

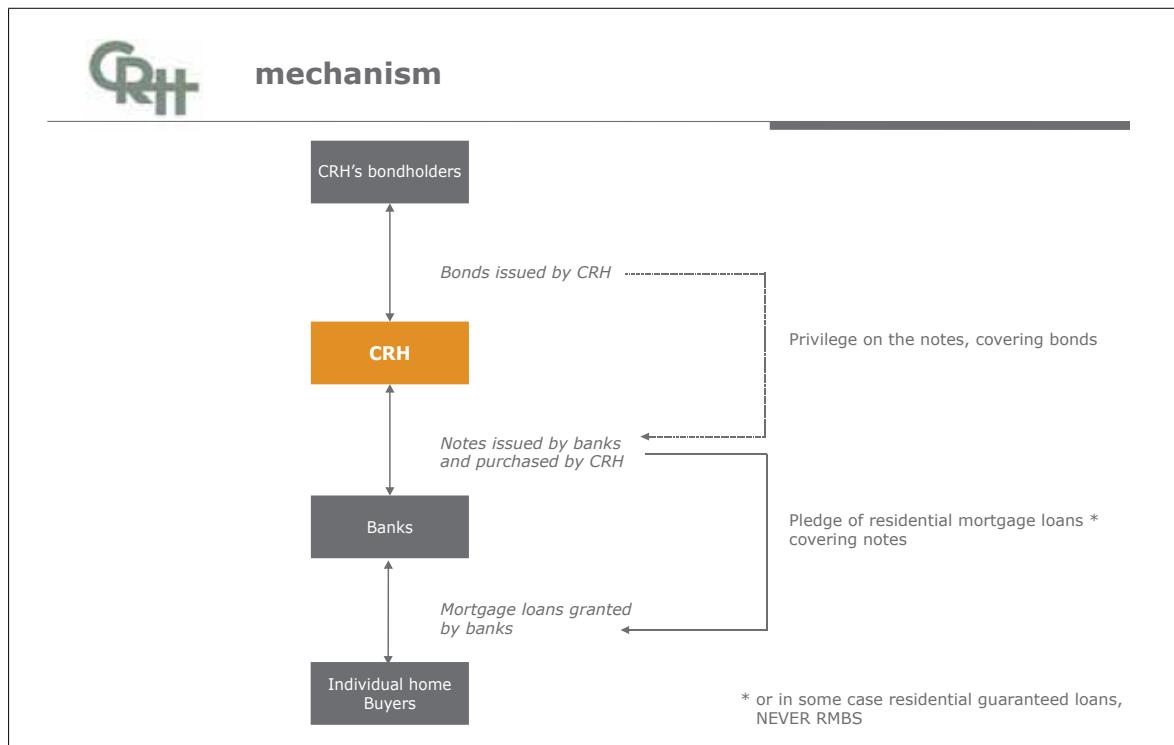
Furthermore:

- > every borrower is committed to supply back up lines to CRH
- > CRH benefits from cross commitments of shareholders to supply cash advances and capital contributions.

These shareholders-borrowers are among the best European names. Their global market share is roughly 80% of the French mortgage market.

CRH is not borrowing for itself but for the account of its shareholders; nevertheless, as any fully independent credit institution, it can decline funding a shareholder.

CRH covered bonds are unsubordinated senior secured obligations and rank pari passu among themselves benefiting from the legal privilege. No other debt can be either senior or rank even pari passu with the covered bonds.



### III. COVER ASSETS

CRH's loans to banks (represented by mortgage promissory notes) are secured by the pledge of eligible loans kept in the balance sheets of borrowing banks. These assets are ring-fenced thanks to the legal privilege granted to CRH (and passed impaired to CRH' bondholders in virtue of the privilege granted to the covered bonds holders).

Eligible loans are restricted by Law, and by additional restrictions embedded into CRH internal regulation.

Are eligible to CRH cover pool:

1. Home loans (*prêts à l'habitat*) secured by a first-ranking mortgage
2. Within the limit of 35% of the cover pool, home loans that are guaranteed by a credit institution or an insurance company, with a shareholder's equity of at least €12 million and which does not belong to the same group as the relevant bank according to Article L. 233-16 of the French Commercial Code.
3. Loans guaranteed by the *Fonds de Garantie à l'Accession Sociale à la Propriété* (Guarantee Fund for Social Access to Home Ownership).

These eligibility criteria are supplemented by the following restrictions:

- > The property must be located exclusively in France
- > The loan amount cannot exceed EUR 1.000.000
- > The loan residual tenor cannot exceed 25 years Are NOT eligible in CRH cover pool
- > Securitisation exposures
- > Public assets
- > Replacement assets.

The CRH cover pool includes exclusively residential loans complying with the Capital Requirements Regulation (CRR Article 129). Typically, ca. 85% of the pool is secured by first rank mortgages and 15% are guaranteed loans.

The total value of the cover pool must equal:

- > For fixed-rate home loans, at least 125% of the total amount of CRH loans (equal to the total amount of CRH bonds);
- > For floating-rate home loans, at least 150% of the total amount of CRH loans.

The collateralisation rate can of course be set at higher levels by additional requests made either by CRH itself or by the rating agencies.

#### **IV. VALUATION AND LTV CRITERIA**

The rules for property valuations are the same as those of *sociétés de crédit foncier*.

The properties financed by the loans are valued according to the French mortgage market accepted practice and defined by law (regulation n°99-10).

Regarding valuations methods, different options are available (full valuation, use of statistic methods) that depend on the loan size and the property value.

All buildings financed by eligible loans are the subject of a prudent evaluation that excludes all speculative aspects. It is carried out by the borrowing bank. The valuation is performed taking into account the building's long-term characteristics, normal and local market conditions, the current usage made of the asset and all alternative usages that it might be assigned to.

This valuation must be performed by an independent expert, i.e. a person who is not part of the lending decision-making process.

The valuation of the buildings is re-examined as part of the risk measurement system required of borrowing credit institutions by CRBF Regulation no. 97-02. This examination is performed annually using statistical methods.

For statistical methods, the properties values are based on the index provided by INSEE (*Institut National de la Statistique et des Études Économiques*) or on the index provided by Notaries (PERVAL).

They are revaluated on a quarterly basis.

Loans in the cover pool can be financed up to the lower amount of:

- > The remaining principal balance of the loan; or
- > The value of the real estate financed or given as collateral multiplied by the financing coefficient, this financing coefficient is equal to the lower of:
  - > 60% of the value of the financed real estate for guaranteed loans, or of the assets given as collateral for residential mortgages;
  - > 90% of the value of the real estate (provided the overcollateralisation rate is at least equal to 125%) in the case of loans that were granted to individuals either to finance the construction or purchase of a home, or to finance both the acquisition of the undeveloped land and the cost of building the home;
  - > 100% of the value of the real estate financed, in the case of loans guaranteed by the *Fonds de garantie à l'accession sociale* (Guaranty Fund for Social Home Accession).

## **V. ASSET – LIABILITY MANAGEMENT**

CRH ALM is extremely simple as it is a perfect pass-through structure.

CRH's debts (covered bonds) and loans (mortgage promissory notes) have exactly the same characteristics.

CRH is therefore not exposed to any interest rate, foreign exchange or liquidity risk.

### **Overcollateralisation:**

By law, CRH minimum collateralisation rates are the following:

- > For fixed rates home loans, at least 125% of the total amount of CRH loans (equal to the total amount of CRH bonds);
- > For floating rate home loans, at least 150% of the total amount of CRH loans.

The collateralisation rate can of course be set at higher levels by additional requests made either by CRH itself or by the rating agencies.

### **Liquidity:**

According to CRH internal regulation, banks are committed to grant liquidity lines on which CRH can draw upon request.

### **Maturity mismatch:**

According to CRH internal regulation, each bank's cover pool must be congruent with rate and duration of CRH's related covered bond to protect CRH in the case where it becomes owner of the cover pool. Save to achieve it, an extra layer of overcollateralisation is requested from the borrower.

## **VI. TRANSPARENCY**

CRH publishes, on a quarterly basis the European Covered Bond Label Report (under the Harmonised Transparency Template format), recently enriched by the additional regulatory requirements relating to eligibility of the collateral to ECB open market operations.

Due to the new regulation, CRH must disclose (but not publish), on a quarterly basis: i) the overcollateralisation ratio, ii) the gap between the average life of the assets and liabilities and iii) the forecast cover plan regarding the matching between the assets and the liabilities.

Every year, the annual report discloses the size of the cover pool. This report confirms the characteristics (nature and quality) of home loans pledged and that CRH is not exposed to interest rate risk.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

CRH is an independent credit institution which is directly supervised by the ECB, in coordination with the French supervisor ACPR (*Autorité de contrôle prudentiel et de résolution*).

Furthermore, its operations are under a specific supervision of ACPR as a consequence of the provisions of the article L.313-49 of Monetary and Financial Code.

The monitoring of the portfolio is carried out at two levels:

- > Off-site portfolio data processing reported in the monthly list of pools of loans pledged to CRH by the borrowing banks
- > On-site audits (i.e. at the borrowing banks) of the cover pool, based on samplings. If necessary, CRH asks borrowing banks to increase the cover pool to compensate for the shortfall identified or to pay back.

CRH by delivering CRH's bonds.

CRH is also subject to audit by its shareholder banks.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Under the applicable CRH legislation:

- > CRH is granted a very strong legal privilege (i.e. superseding any other laws, in particular bankruptcy law) over the covered pool. This legal privilege is integrally passed on to covered bond investors, without any impairment or possibility of legal challenge.
- > The holders of CRH covered bonds benefit from the legal privilege over CRH Mortgage Promissory Notes (i.e. the secured loans to banks).

Which means that the entirety of the covered pool cash flows will be passed to bondholders, in accordance with their payment schedule, and have priority over any of CRH's other debts or non-privileged creditors. The sole CRH privileged debts are CRH covered bonds.

In case of a bank's default:

- > CRH becomes the owner of the portfolio of housing loans without any formality, notwithstanding any provision to the contrary.
- > CRH being an independent company from the borrowing banks, bankruptcy proceedings or liquidation of a borrowing bank holding CRH's equity cannot be extended to CRH.

In case of a CRH's default:

- > **no acceleration of covered bonds as a result of insolvency of CRH:** in the event of an insolvency proceeding of CRH (safeguard procedure, judicial reorganization or liquidation), all Covered Bonds must be paid on their due dates and in preference to all other claims. Until payment in full of all such preferred claims, no other creditors may take any action against the assets of CRH;
- > **no nullity during the hardening period:** the provisions allowing an administrator to render certain transactions entered into during the hardening period (*période suspecte*) null and void are not applicable for the transfer of assets entered into by CRH (provided that such transactions are made in accordance with their exclusive legal purpose and without fraud).

## **Recourses**

The sums resulting from the eligible assets, are allocated in priority to the payment of sums due in respect of the Covered Bonds. Until payment in full of such – sole – privileged liabilities, no other creditors may take action against the assets of CRH.

On 15 May 2014, the Directive 2014/59/EU of the European Parliament and of the Council established a framework for the recovery and resolution of credit institutions and investment firms ("BRRD"). The BRRD provides authorities with a credible set of tools to intervene sufficiently early and quickly in an unsound or failing institution to ensure the continuity of the institution's critical financial and economic functions, while minimising the impact of an institution's failure on the economy and financial system. The implementation of the BRRD into French law has been made by two texts of legislative nature (the banking law dated 26 July 2013 and an Ordinance dated 20 August 2015). Regarding Covered Bonds, the BRRD provides that the relevant resolution authority shall not exercise the write down or conversion powers in relation to secured liabilities including covered bonds and liabilities in the form of financial instruments used for hedging purposes which form an integral part of the cover pool and which according to national law are secured in a way similar to covered bonds, whether they are governed by the law of a Member State or of a third country.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

CRH's bonds are compliant with the criteria of Article 129(1) CRR and Article 52(4) of the UCITS Directive.<sup>1</sup> They are 10% weighted in standard approach.

Article 129 of CRR defines which assets are eligible as collateral for covered bonds to ensure a lower risk-weighting. French guaranteed home loans (*prêts cautionnés*) are eligible for preferential treatment subject to a number of conditions:

- > The eligible guaranteed home loan provider qualifies for credit quality step 2 or above (i.e. rated minimum A3/A-/A- by Moody's, S&P and Fitch);
- > The portion of each of the loans that is used to meet the requirement for collateralisation of the covered bonds does not represent more than 80% of the value of the corresponding residential property located in France (i.e. guaranteed home loans comply with the 80% LTV limit); and,
- > Where a loan-to-income ratio is limited to 33% when the loan has been granted.

CRH Covered bonds are included in securities accepted for the European Central Bank (ECB) open market operations. They are eligible as Level 1 assets for the Liquidity Coverage Ratio (LCR).

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

## **X. ADDITIONAL INFORMATION**

CRH belongs to covered bonds world but is very different from other issuers:

- > CRH is a former agency created by French government,
- > CRH is regulated by specific legal framework dedicated to it,
- > CRH is not borrowing for itself but for the account of French Banking system,
- > CRH is a credit institution of full exercise able to refuse to fund a shareholder,
- > CRH benefits from cross commitments of French banks to supply cash advances and capital contributions.

**Issuers:** AXA Bank Europe (SCF); BNP Paribas Public Sector (SCF); BNP Paribas Home Loan (SFH); BPCE (SFH); Banques Populaires Covered Bonds (BP CB); Caisse Française de Financement Local (CAFFIL); CIF Euromortgage; Compagnie de Financement Foncier (CFF); Crédit Agricole Public Sector (SCF); Crédit Agricole Home Loan (SFH); Crédit Mutuel – CIC Home Loan (SFH); Crédit Mutuel Arkéa Public Sector (SCF); Crédit Mutuel Arkéa Home Loans (SFH); Caisse de Refinancement de l'Habitat (CRH); GE Money Bank (SCF); HSBC (SFH); La Banque Postale Home Loan (SFH); Société Générale (SCF); Société Générale (SFH).

### **ECBC Covered Bond Comparative Database:**

[https://www.ecbc.eu/framework/21/Caisse\\_de\\_Refinancement\\_de\\_l%27Habitat\\_-\\_CRH](https://www.ecbc.eu/framework/21/Caisse_de_Refinancement_de_l%27Habitat_-_CRH)

[https://www.ecbc.eu/framework/71/General\\_Law\\_Based\\_CBs](https://www.ecbc.eu/framework/71/General_Law_Based_CBs)

[https://www.ecbc.eu/framework/73/Obligations\\_Fonci%C3%A8res\\_-\\_OF](https://www.ecbc.eu/framework/73/Obligations_Fonci%C3%A8res_-_OF)

[https://www.ecbc.eu/framework/90/Obligations\\_%C3%A0\\_l%27Habitat\\_-\\_OH](https://www.ecbc.eu/framework/90/Obligations_%C3%A0_l%27Habitat_-_OH)



**COVERED BOND :** AXA Bank Europe SCF (1 pool), BNP Paribas (2 pools), BPCE SFH (1 pool), Compagnie de Financement Foncier (1 pool), Crédit Mutuel – CIC Home Loan SFH (1 pool), HSBC SFH (1 pool), Société Générale (2 pool), Credit Agricole (2 pools), Caisse de Refinancement de l'Habitat (1 pool), Caisse Française de Financement Local (1 pool), Arkéa (2 pools), La Banque Postale Home Loan SFH (1 pool), CIF Euromortgage (1 pool).

### **3.15 GERMANY**

By Otmar Stöcker, Association of German Pfandbrief Banks

#### **I. FRAMEWORK**

In Germany, the legal basis for covered bond issuance is the German Pfandbrief Act (PfandBG – Pfandbriefgesetz) dated 22 May 2005 replacing the Mortgage Bank Act from 1900 and other German Pfandbrief laws.

On 15 April 2021 the Deutsche Bundestag and on 7 May 2021 the Bundesrat approved the amendments to the Pfandbrief Act, which implement the CBD into German Pfandbrief law and adapt it to the changes of Art. 129 CRR. These amendments come in force partially on 1 July 2021 and partially on 8 July 2022. In this edition only these amendments will be mentioned, which come in force in 2021.

Furthermore, the statutory orders, which are based on the Pfandbrief Act, are adapted in 2021 as well.

#### **II. STRUCTURE OF THE ISSUER**

Since 2005, the issuer of Pfandbriefe is no longer required to be a specialised bank. Instead, Pfandbrief issuers are allowed to exercise all activities of a credit institution, although a special licence for Pfandbrief issuance is required.

Since the EBA outsourcing guidelines do not allow for the outsourcing of important and decision-making sections of the credit institution, the issuer is required to have its own employees. In addition, the PfandBG requires Pfandbrief banks to manage their own risk and take their credit decisions on their own.

The issuer holds the cover assets on his balance sheet. A subsequent transfer of the cover assets to another legal entity does not take place. Given that a direct legal link between single cover assets and Pfandbriefe does not exist, all obligations relating to Pfandbriefe are obligations of the issuing bank as a whole. In the case of insolvency, the cover pool is segregated by law from the general insolvency estate and is reserved for the claims of the Pfandbrief holders. Even then, Pfandbrief holders still have a claim against the general insolvency estate (dual/triple recourse).

#### **III. COVER ASSETS**

Cover assets are produced by mortgage lending, public sector lending, ship and aircraft financing activities. ABS/MBS are not eligible. A specific class of covered bonds corresponds to each of these cover asset classes: Hypothekenpfandbriefe, Öffentliche Pfandbriefe, Schiffspfandbriefe and Flugzeugpfandbriefe. The respective Pfandbrief must be fully secured by its specific cover asset class (§ 4 PfandBG). Detailed transparency requirements are regulated in § 28 PfandBG.

Up to 10% of the nominal volume of Pfandbriefe outstanding may consist of money claims against the European Central Bank, central banks in the European Union or against suitable credit institutions, which fulfil the requirements of credit quality step 1 according to Table 3 of Article 120 par. 1 or Table 5 of Article 121 par. 1 Capital Requirement Regulation (CRR).

The geographical scope of eligible mortgage assets is restricted to EU/EEA countries, to Switzerland, USA, Canada, Japan and explicitly widened to UK due to the Brexit. Public sector loans to these countries are eligible for the cover of Öffentliche Pfandbriefe (§ 20 PfandBG). In 2014, the mortgage asset scope was enlarged to Australia, New-Zealand and Singapore. The total volume of loans granted in non-EU countries where it is not certain that the preferential right of the Pfandbrief creditors extends to the cover assets, may not exceed 10% of the total volume of the cover loans (§§ 13 I 2, 20 I 2 PfandBG) and 20% for ship and aircraft mortgages (§§ 22 V 2, 26b IV PfandBG).

Derivatives are eligible for cover pools under certain conditions. Liabilities stemming from cover pool derivatives must not exceed 12% of the sum of Pfandbriefe outstanding and the liabilities from the cover pool derivatives,

calculated on a net present value basis (§ 4 b PfandBG). Claims resulting from cover pool derivatives must not exceed 12% of Pfandbriefe outstanding, again calculated on a net present value basis (§ 19 I 4 PfandBG).

#### **IV. VALUATION AND LTV CRITERIA**

Property valuation is regulated in § 16 PfandBG. This provision refers to the mortgage lending value (Beleihungswert) which is, in contrast to the market value, based on sustainable aspects of the property. Details about the valuation process and the qualifications of values are regulated in a specific statutory order on the mortgage lending value (Beleihungswertermittlungsverordnung, BelWertV), § 16 IV PfandBG.

Monitoring requirements result from the Capital Requirements Directive (once a year for commercial real estate and once every three years for residential real estate). In addition, § 27 BelWertV requires a review of the underlying assumptions when the market has declined substantially; a review of property values is also necessary when the loan has defaulted.

The BelWertV requires personal and organisational independence of the valuer (internal or external valuer).

For both commercial and residential property, the LTV limit is 60% of the mortgage lending value of the property. This LTV is a relative limit, i.e. when the loan exceeds the 60% limit, the part of the loan up to 60% LTV remains eligible for the cover pool.

#### **V. ASSET – LIABILITY MANAGEMENT**

§ 4 PfandBG stipulates that the total volume of Pfandbriefe outstanding must be covered at all times by assets of at least the same amount. Thus, the nominal value of the cover assets must permanently be higher than the respective total value of the Pfandbriefe.

In addition, the Pfandbrief Act requires that Pfandbriefe are covered on a net present value basis even in the event of severe interest rate changes or currency fluctuations. The issuer has to provide an overcollateralisation of at least 2% after stress tests which have to be carried out weekly. Both the maturity of outstanding Pfandbriefe and the fixed-interest periods of the cover pool are disclosed on a quarterly basis. Details about the calculation are regulated in a special statutory order Net Present Value (Barwertverordnung).

Furthermore, each day Pfandbriefbanks have to calculate the maximum liquidity gap within the next 180 days. This amount has to be covered by liquid assets (§ 4 Ia PfandBG).

Every quarter, the stress-tested NPV of outstanding Pfandbriefe, the cover pool and the overcollateralisation have to be published (§ 28 I PfandBG). The stress tests apply not only to interest rate risks but also to foreign exchange risks.

#### **VI. TRANSPARENCY**

According to § 28 of the Pfandbrief Act (Pfandbriefgesetz, PfandBG), all Pfandbrief Banks are obliged to publish detailed information about their Pfandbrief outstanding and the pertaining cover pools on a quarterly basis.

Besides these legal requirements, the vdp member banks started the vdp Transparency Initiative in 2010. Within the scope of this initiative, transparency reports of vdp member institutions are published in a uniform format, that can be processed electronically, using a uniform understanding of the legal requirements and on one central website (the vdp's).<sup>1</sup>

Each report is available as a reading version in pdf format and, suitable for further direct processing, in xls (Excel), csv and xml-formats as well. Automatic links to investor databases are possible. The website offers sorting possibilities for the reports both by the reporting date and the bank name. All reports are published in English and German language versions. There is a data history available that goes back to 31 December 2008.

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<sup>1</sup> [http://www.pfandbrief.de/cms/\\_internet.nsf/tindex/de\\_pub\\_pfandbg.htm](http://www.pfandbrief.de/cms/_internet.nsf/tindex/de_pub_pfandbg.htm).

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The German federal financial supervisory authority (BaFin) carries out a special supervision on Pfandbrief banks through a dedicated division. The "Pfandbriefkompetenzcenter" is responsible for all fundamental issues regarding the PfandBG and conducts cover pool audits using own staff or external auditors.

### **Cover audits**

The cover pools are subject to a special audit conducted usually every three years by the supervisory authority (§ 3 PfandBG). Cover pool audits are performed either by the appropriate specialist section at BaFin itself or by suitable auditors, who are mandated via contract by public tender.

A cover audit is conducted in respect of individual cover pool assets, the observance of matching cover requirements in terms of the nominal and net present value calculation, the proper keeping of the cover registers, and the systems and processes in place with regard to the cover pools.

Audits of individual cover assets seek to ensure that the respective assets were included in cover in accordance with the relevant rules and regulations or that their continued inclusion is in line with requirements. A system audit entails examining all the Pfandbrief bank's main processes and systems that are directly or indirectly linked to the cover assets and the issued Pfandbriefe. In particular, process documentation, system descriptions and the proper implementation of the relevant methods are scrutinized.

Furthermore, a cover pool monitor (Treuhänder) supervises the cover pool. He is appointed by the BaFin and must possess the expertise and experience necessary to fulfil all duties. A qualification as a certified auditor suggests that the necessary expertise is provided. The monitor has to ensure that the prescribed cover for the Pfandbriefe exists at all times and that the cover assets are recorded correctly in the cover register, §§ 7, 8 PfandBG. Without his approval, no assets may be removed from the cover pool or new Pfandbriefe been issued. The BaFin has published a specific statutory order on details of the form and the contents of this cover register (Deckungsregisterverordnung – DeckRegV), § 5 III PfandBG.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

A cover register (Deckungsregister) permits the identification of the cover assets, § 5 PfandBG. The register records the cover assets being used to cover the Pfandbriefe as well as claims under derivatives (§ 5 I 1 PfandBG).

The legal effect of registration is that in the case of insolvency of the issuer, the assets which form part of the cover pool can be identified: all values contained in the register would not be part of the insolvency estate. § 30 I 1 PfandBG now calls them "insolvency-free assets".

While the bank carries out the daily administration of the cover register, it is the cover pool monitor who supervises the required cover and registration in the cover register, § 8 I, II PfandBG. Copies of the cover register shall be transmitted to the supervisory authority on a regular basis.

### **Asset segregation**

The cover pool is part of the general estate of the bank as long as the issuer is solvent. If insolvency proceedings are launched, by operation of law, the assets recorded in the cover registers are excluded from the insolvency estate (§ 30 I 1 PfandBG). Those assets will not be affected by the launching of the insolvency proceedings (§ 30 I 2 PfandBG).

After the launching of the insolvency proceedings, a special cover pool administrator (Sachwalter) carries out the administration of the cover assets (§ 30 II 1 PfandBG). Through the appointment of the cover pool administrator by the court, on proposal of the BaFin (or by BaFin in case of urgency), the right to manage and dispose of the recorded assets will be transferred to him automatically by law (§ 30 II 2 PfandBG). Regarding

cover assets and timely payment of Pfandbriefe, the cover pool administrator represents the Pfandbriefbank (§ 30 II 5, 6 PfandBG). He is allowed to use premises and staff of the Pfandbriefbank (§31 VIII PfandBG).

#### **Impact of insolvency proceedings on covered bonds and derivatives**

Covered bonds do not automatically accelerate when the issuing institution is insolvent, but will be repaid at the time of their contractual maturity. The same applies to derivatives which are registered in the cover register and form part of the cover pool. Accordingly, the German master agreements for cover derivatives stipulate that the bankruptcy of the Pfandbrief issuer does not signify a termination event. Article 13 N° 6 DeckregV stipulates that the collateral provided by the derivative counterpart or the Pfandbrief bank has to be registered in the cover register. The consequence of such registration is that the collateral belongs to the insolvency-free assets.

The amendments to the Pfandbrief Act introduce a maturity extension as legal option only for the cover pool administrator; but the issuer itself has no discretion to use it. This applies to both Pfandbriefe outstanding at the time of the introduction into law (1 July 2021) and newly issued Pfandbriefe. The extension triggers must be described in the terms and conditions for new Pfandbriefe, outstanding Pfandbriefe are covered by Art. 30 CBD.

The cover pool administrator would be allowed to extend maturities of interest and principal within the first month after his appointment to the end of the period of one month without further requirements.

Additionally, he might extend maturities of principal by a maximum of 12 months, if (1) necessary, (2) not over-indebted and (3) subsequent solvency of the Pfandbriefbank with limited business activities can be assumed; he might do that fully or partially (pro rata) with equal treatment of Pfandbrief holders. However, the cover pool administrator might (prematurely) fulfill the Pfandbriefe within the extension period.

Sequencing will not be inverted, original maturity schedule of Pfandbriefe must be kept. However, this is limited to Pfandbriefe and not extended to new debt, which the cover pool administrator creates in form of liquidity loans or bonds; it also does not apply to derivatives in the cover pool.

During the extension period interest on Pfandbriefe must be paid according to the previous terms, if not regulated otherwise in terms and conditions.

Maturity extension is only allowed for Pfandbriefe, however not for cover derivates in the cover pool; as well not for new debt, which the cover pool administrator creates.

#### **Preferential treatment of covered bond holders**

Covered bond holders enjoy preferential treatment as the law stipulates the separation of the cover assets on the one hand and the insolvency estate on the other, § 30 I PfandBG.

The satisfaction of the Pfandbrief creditors is not limited to the cover assets. On the contrary, these creditors also participate in the insolvency proceedings with respect to the Pfandbrief bank's remaining assets.

Only in the case of over-indebtedness or illiquidity of the cover pool, the BaFin may apply for a special insolvency procedure relating to the cover pool and covered bonds (§ 30 VI 2 PfandBG). Insolvency of the cover pool is the only reason, which might trigger acceleration of Pfandbriefe.

The amendments 2021 to the Pfandbrief Act introduce a new provision in § 30 VI 5 and 6 strengthening the dual recourse of Pfandbriefe: The insolvency administrator will have to make reserves for the dual recourse claims of Pfandbrief holders during the insolvency procedure. Furthermore, the final distribution of the insolvency estate to creditors will not be allowed to take place before the amount of potential dual recourse claims of Pfandbrief holders is clarified.

### **Access to liquidity in case of insolvency**

Through the appointment of the cover pool administrator, the right to manage and dispose of the recorded assets is transferred to him by law (§ 30 II 2 PfandBG). Thus, the cover pool administrator has first access to the cover assets and collects the cash flows according to their contractual maturity (§ 30 III 2 PfandBG).

No explicit regulation exists with respect to the insolvency remoteness of voluntary overcollateralisation (OC). However, the insolvency administrator may only demand that the overcollateralisation be surrendered to the insolvency estate, if those amounts will obviously not be necessary as cover for the respective Pfandbrief category (§ 30 IV 1 PfandBG). The burden of proof that OC will never be necessary for the timely payment of the Pfandbriefe, lays with the insolvency administrator.

The cover pool administrator is entitled to contract loans in order to obtain liquidity. According to § 30 II 5 PfandBG, the cover pool administrator may carry out legal transactions with regard to the cover pools in so far as this is necessary for an orderly settlement of the cover pools in the interest of the full and timely payments to the Pfandbrief creditors.

### **Pfandbriefbank with limited business activities**

The amendment of the PfandBG 2010 was focused on the legal nature of cover pools in the event of a Pfandbrief bank's insolvency and on the access of a cover pool administrator to liquid funds during difficult times. A cover pool would get automatically the status of a non-insolvent part of the bank of the insolvent Pfandbrief bank.

§ 30 I 3 PfandBG uses the term 'Pfandbrief bank with limited business activities'.

### **Sale and transfer of mortgage assets to other issuers**

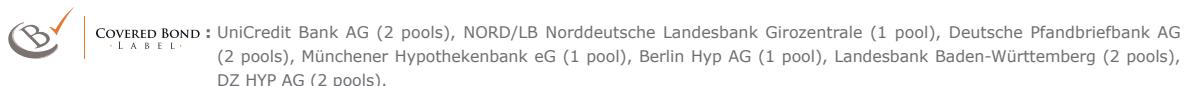
According to § 32 I PfandBG, the cover pool administrator may transfer all or a part of the assets recorded in the cover register as well as liabilities from Pfandbriefe as a whole to another Pfandbrief bank. This transfer requires the written approval of the supervisory authority.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The PfandBG fully complies with Art. 129 Capital Requirements Regulation (CRR), Article 52(4) of the UCITS Directive and the CBD. Aircraft Pfandbriefe only comply with Article 52(4) of the UCITS Directive and the CBD, because Aircraft loans are not eligible cover assets according to Art. 129 CRR.

**Issuers:** There are currently about 80 Pfandbrief banks in Germany, including banks from all three pillars of the German banking industry (private banks, public banks and co-operative banks).

**ECBC Covered Bond Comparative Database:** <https://www.ecbc.eu/framework/23/Pfandbriefe>





**3.16 GREECE**

By Alexander Metallinos, Karatzas &amp; Partners Law Firm

**I. FRAMEWORK**

In Greece, the primary legal basis for Covered Bond issuance is Article 152 of Law 4261/2014 on "Access to the activity of credit institutions, prudential supervision of credit institutions and investment firms (transposition of Directive 2013/36/EU), repeal of Law 3601/2007 and other provisions", (the "Primary Legislation"). This provision is identical with the provision of Article 91 of the now repealed Law 3601/2007, which had entered into force on 1 August 2007. Therefore, the repeal of Law 3601/2007 had no effect on the regulation of covered bonds. The Primary Legislation supersedes general provisions of law contained in the Civil Code, the Code of Civil Procedure and the Bankruptcy Code. By way of implementation of the Primary Legislation and, pursuant to an authorisation provided by the latter, the Governor of the Bank of Greece has issued Act nr. 2598/2.11.2007 which was replaced by Act nr. 2620/28.8.2009 of the Governor of the Bank of Greece (the "Secondary Legislation"). Finally, the legislative framework in Greece is supplemented by Law 3156/2003 "On Bond Loans, Securitization of Claims and of Claims from Real Estate and Other Provisions" (the "Bond Loan and Securitization Law") and Law 4548/2018 "Reform of law on sociétés anonymes" (the "New Company Law"), to the extent that the Primary Legislation cross-references to these laws.

On 12 March 2018, the European Commission adopted a proposal for an enabling EU framework on covered bonds. The legislative proposal consisted of (a) the adoption of a directive providing inter alia a common definition of covered bonds, defining the structural features of the instrument and identifying those high quality assets that can be considered eligible in the pool backing the debt obligations, establishing a sound special public supervision for covered bonds and setting out the rules which will allow the use of the "European Covered Bonds" label; and (b) the adoption of a regulation amending the Regulation (EU) 575/2013 (the "Capital Requirements Regulation" or "CRR") with the aim of strengthening the conditions for granting preferential capital treatment to covered bonds by adding further requirements. Following this proposal, Directive (EU) 2019/2162 of the European Parliament and of the Council of 27 November 2019 on the issue of covered bonds and covered bond public supervision and amending Directives 2009/65/EC and 2014/59/EU was enacted. EU Member States are obliged to adopt and publish, by 8 July 2021, the laws, regulations and administrative provisions necessary to comply with this Directive and to apply those measures at the latest from 8 July 2022. A draft law to transpose the directive into Greek law has been prepared, but as of April 26, 2021 had not been submitted to Parliament.

**II. STRUCTURE OF THE ISSUER**

The Greek legislative framework permits the issuance of covered bonds in two ways, either directly by a credit institution, or indirectly by a subsidiary of a credit institution. In the direct issuance structure, the covered bonds are issued by a credit institution and the segregation of the cover pool is achieved through a statutory pledge over the cover pool assets.

Paragraph 13 of the Primary Legislation allows for a variation to the direct issuance. Under this structure, the covered bonds are issued by the credit institution and guaranteed by a special purpose entity (SPE), which acquires the cover pool. This structure has not yet been used by any issuer.

In the indirect issuance structure, the covered bonds are issued by a special purpose entity being a subsidiary of a credit institution, which purchases the cover assets from the credit institution by virtue of the provisions of the Bond Loan and Securitization Law, and are guaranteed by the credit institution.

The reason for introducing the indirect issuance structure was that historically most Greek banks had issued a significant amount of notes under medium-term note (MTN) programmes containing negative pledge covenants, which did not allow the creation of security over the cover pool, as necessary for the direct issuance

of covered bonds. However, all Greek banks having MTN programmes have now amended the terms of such programmes to carve out the security provided to holders of covered bonds from the scope of the negative pledge covenants, and therefore the need for the indirect issuance of covered bonds has been removed. In fact, the only indirect issuance of covered bonds has been fully redeemed and it is to be expected that the regulator will likely not approve any future indirect issue of covered bonds.

### **III. COVER ASSETS**

The type of assets that may form part of the cover pool is regulated by the Secondary Legislation by reference to assets referred to in a section of the Governor of the Bank of Greece Act nr. 2620/28.8.2009 regarding the calculation of capital requirements in relation to credit risk according to the standardised approach. Following the entry into force of the Capital Requirements Regulation, this reference should be read as a reference to Article 129 of the Regulation. Cover assets are primarily residential mortgage loans, loans secured by a mortgage on commercial properties, loans secured by a mortgage on ships and loans to or guaranteed by state entities. Residential and commercial mortgage loans may only be included in the cover pool if the property subject to the mortgage is situated in Greece and hence is under Greek law. The loans may be secured by mortgage prenotations instead of full mortgages (as is the practice for cost reasons in Greece). In addition, exposures to credit institutions and investment services undertakings may be included in the cover pool up to an aggregate limit of 15% of the nominal value of the outstanding covered bonds. Derivatives may also be included in the cover pool to the extent that they are used exclusively for the purpose of hedging the interest rate, FX or liquidity risk. To the extent that the counterparties to such derivatives are credit institutions and investment services undertakings (as opposed to state entities or central counterparties in regulated markets), the net present value of derivatives included in the pool is included in the above 15% limit. Finally, the cover assets may be substituted by certain marketable assets but only up to the amount by which the aggregate nominal value of the cover assets including accrued interest exceeds the nominal value of the outstanding covered bonds including accrued interest.

### **IV. VALUATION AND LTV CRITERIA**

Loans secured by residential mortgages are required to have a loan-to-value (LTV) ratio of 80%, whereas loans secured by mortgages over commercial properties and ships are required to have an LTV ratio of 60%. Loans with a higher LTV ratio may be included in the cover pool, but they are taken into account for the calculation of the statutory tests described below only up to the amount indicated by the LTV ratio. Thus e.g. a loan of 900,000 Euros secured through a residential mortgage over a property valued at 1,000,000 Euros may be included in the cover pool but will be deemed for the purposes of the calculation of the statutory tests to be equal to 800,000 Euros.

The evaluation of properties must be performed by an independent valuer at or below the market value and must be repeated on a frequent basis, at least once every year in relation to commercial properties and once every three years in relation to residential properties (Article 208 of the CRR).

### **V. ASSET-LIABILITY MANAGEMENT**

The Secondary Legislation provides tests that are required to be met for the full duration of the covered bonds.

More particularly, the Secondary Legislation provides for the following statutory tests:

- (a) The nominal value of the covered bonds including accrued interest may not exceed at any point in time 95% of the nominal value of the cover assets including accrued interest.
- (b) The net present value of obligations to holders of covered bonds and other creditors secured by the cover pool may not exceed the net present value of the cover assets including the derivatives used for hedging. This test must be met even under the hypothesis of a parallel movement of the yield curves by 200 basis points.

- (c) The amount of interest payable of covered bonds holders for the next 12 months must not exceed the amount of interest expected to be received from the cover assets over the same period. For the assessment of whether this test is fulfilled, derivatives entered into for hedging purposes are taken into account.

Tests (b) and (c) are performed on a quarterly basis. In case any of the tests is not met, the credit institution is obliged to immediately take the necessary measures to remedy the situation.

The results of the tests (a) to (c) above and the procedures used to monitor the compliance with such tests are audited on a yearly basis by an auditor independent of the statutory auditors of the credit institution.

Moreover, since the Bank of Greece approves each issuance of covered bonds, it would not approve any issuance in case the statutory tests (including the liquidity test) are not met. Therefore, a breach of the statutory (but not of any contractual) liquidity test would in practice lead to a programme freeze. Also, the failure to comply with the requirement to restore the statutory tests may lead to sanctions by the Bank of Greece. Apart from the regulatory sanctions provided by the Primary and the Secondary Legislation in case of breach of the above-mentioned legislation, the contracting parties may agree to additional sanctions, in particular, to alternative administration or to the event of default.

## **VI. TRANSPARENCY**

Currently, the issuer's reporting obligations (as described in detail under paragraph on reporting duties of section VII) and the disclosure of the cover pool as conducted via the summary registered with the competent pledge registry for the establishment of a statutory pledge (for more details on this issue we cross-refer to paragraph on the cover pool monitor of section VII) are the basic transparency tools provided under applicable covered bonds legislation. So far in Greece no market or regulatory initiatives have been undertaken on the creation of a national transparency template, in line with the guidelines of the ECBC Label Initiative.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

### **Cover pool monitor**

The compliance with statutory tests, mentioned above, is audited by independent auditors. Such audit reports, as well as the quarterly compliance reports by the issuer, shall be submitted to the Bank of Greece as regulator.

### **Prerequisites for the issuance of covered bonds**

According to the Primary Legislation, covered bonds may be issued by credit institutions having Greece as home Member State. However, in case of issuance of covered bonds by a credit institution having as home State another Member State of the European Economic Area (EEA), and provided that they are characterised as covered bonds in accordance with the law of such Member State, the provisions of the Primary Legislation on the creation of a statutory pledge will apply in relation to claims under Greek law, as well as the tax exemptions which apply to Greek bonds. Therefore, foreign banks established within the EEA having a significant loan portfolio in Greece may use the loans of such portfolio as part of the cover pool.

The Secondary Legislation sets additional prerequisites for the issuance of covered bonds. Specifically, the credit institutions issuing covered bonds:

- > must have certain minimum risk management and internal control requirements including suitable policies and procedures for the issuance of covered bonds, organisational requirements, IT infrastructure and a policy for the reduction and management of risks deriving from the issuance of covered bonds, such as interest rate risk, counterparty risk, operational risk, FX risk and liquidity risk; and
- > must have aggregate regulatory capital of at least 500 million Euros and a capital adequacy ratio of at least 9%.

### **Reporting duties of the issuer to the supervisor concerning covered bonds and cover pool**

Credit institutions that issue (directly or indirectly) covered bonds shall provide in their financial statements and on their websites information on such covered bonds including the nominal value and net present value of the bonds and the cover pool and the net present value of derivatives used for hedging.

More particularly, pursuant to the Secondary Legislation there are the following disclosure requirements to the Bank of Greece until the end of March of each year in relation to data as of end of December of the year preceding:

- > The results of an audit conducted pursuant to the provisions of the Secondary Legislation and following the processes and restrictions as set by the Secondary legislation, certified by an auditor.
- > Detailed data of the cover pool assets that would confirm that the limits set under the Secondary Legislation are met, along with the information related to the revaluation of the real estate securing the mortgage and other loans;
- > the following data and information:
  - a) weighted average interest-rate per category of assets and weighted average interest-rate of all cover pool assets;
  - b) the real estate values of the mortgages and of the other loans;
  - c) validation of the selected policy of risk hedging with detailed analysis of the degree of effectiveness of this; and
  - d) table of corresponding maturities of the covered bonds and corresponding assets of the cover pool and the derivatives.

Finally, all the credit institutions have to communicate to the Bank of Greece, within 30 days from the end of each quarter, concise information regarding the results from the tests provided under the Secondary Legislation as of the end of the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> quarter.

### **Banking supervision in crisis**

As described in detail under section VIII of this article, the Primary Legislation provides that in case of insolvency of the issuer, the Bank of Greece may appoint an administrator, regardless of the powers it may assign to a special liquidator pursuant to the generally applicable banking special liquidation provisions, if the trustee does not do so.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

### **Segregation of cover assets**

In case of a direct issuance, the cover assets are segregated from the remaining estate of the credit institution through a pledge constituted by operation of law (statutory pledge). In case of assets governed by a foreign law (which will typically include *inter alia* claims from derivative contracts), a security interest must be created in accordance with such foreign law. The statutory pledge and the foreign law security interest secure claims of the holders of covered bonds and may also secure (in accordance with the terms of the covered bonds) other claims connected with the issuance of the covered bonds, such as derivative contracts used for hedging purposes. The statutory pledge and any foreign law security interest are held by a trustee for the account of the secured parties.

The claims constituting cover assets are identified by being listed in a document signed by the issuer and the trustee. A summary of such document is registered in the pledge registry of the seat of the issuer. Such summary document includes within its content a description of the assets that constitute the cover pool. Claims may be substituted and additional ones may be added to the cover pool through the same procedure.

The Primary Legislation creates an absolute priority of holders of covered bonds and other secured parties over the cover pool. The statutory pledge supersedes the general privileges in favour of certain preferred

claims (such as claims of employees, the Greek State and social security organisations) under the Code of Civil Procedure. Furthermore, upon registration of the summary of the document listing the claims included in the cover pool, the issuance of the covered bonds, the establishment of the statutory pledge and the foreign law security interest and the entering into of all contracts connected with the issuance of the covered bonds are not affected by the commencement of any insolvency proceedings against the issuer.

In case of an indirect issuance or a direct issuance guaranteed by an SPE, the cover pool assets are segregated from the estate of the credit institution by virtue of their sale to the special purpose entity. For such transfer, the provisions of the Bond Loan and Securitization Law and the New Company Law apply, which provide equivalent protection from third party creditors and insolvency to the one the Primary Legislation provides in case of direct issuance.

It is worth noting that according to the Primary Legislation both in case of direct and of indirect issuance the cover assets may not be attached. This has the indirect result that the Greek law claims constituting cover assets are no longer subject to set-off, because, according to Article 451 of the Civil Code, claims which are not subject to attachment are not subject to set-off. This is important because under generally applicable law borrowers the loans to whom become cover assets would have had a right to set-off, which would reduce the value of the cover pool, for all counterclaims (including notably deposits) predating the creation of the pledge or the transfer of the claims, as the case may be.

No specific provisions exist in relation to voluntary overcollateralisation. As a result, the segregation applies to all assets of the cover pool, even if their value exceeds the minimum required by law. The remaining creditors of the credit institution will only have access to any remaining assets of the cover pool after the holders of the covered bonds and other creditors secured by the cover pool have been satisfied in full.

#### **Bankruptcy remoteness of and impact of insolvency proceedings on covered bonds**

According to the Secondary Legislation, covered bonds do not automatically accelerate upon insolvency of the credit institution having issued (in a direct issuance structure) or guaranteed (in an indirect one) the covered bonds.

Pursuant to the Primary Legislation, as amended, the bond loan programme may provide that either from the outset or following the occurrence of certain events, as, indicatively, initiation of insolvency proceedings against the issuer, the trustee will be entitled to assign or undertake the collection and management, in general, of the cover assets by application *mutatis mutandis* of the Bond Loan and Securitization Law.

Additionally, the Primary Legislation provides that in case of insolvency of the issuer, the Bank of Greece may appoint an administrator, regardless of the powers they may assign to a supervisor or liquidator pursuant to Articles 137 and 145 of Law 4261/2014, if the trustee does not do so. The proceeds coming both from the collections of the claims, that are included in the legal pledge and from the realisation of the rest of the assets which are subject to the legal pledge, are applied towards the repayment/redemption of the bonds and of the other claims, which are secured by the legal pledge, pursuant to the terms of the bond loan.

The provisions of the Bond Loan and Securitization Law are respectively applied in the sale, transfer, collection and administration, in general, of the assets comprising the cover.

In case of an indirect issuance, the obligations of the credit institution under the Guarantee are automatically accelerated in case of bankruptcy by virtue of the generally applicable provisions of Bankruptcy Law, but this does not lead to automatic prepayment of the covered bonds. On the contrary, the terms of the covered bonds may provide that the proceeds of the Guarantee will be placed in a special account to be used for the servicing of the covered bonds.

### **Access to liquidity in case of insolvency**

Paragraph 9 of the Primary Legislation provides that the trustee can be entitled, pursuant to the terms of the programme and the legal relationship between the trustee and the bondholders, to sell and transfer the cover assets, and to use the net proceeds of such sale in order to redeem the bonds which are secured by the legal pledge, by way of derogation from the general provisions of the Civil Code.

The above-mentioned sale may occur by virtue of the Bond Loan and Securitization Law or the application of the generally applicable provisions.

### **Exercise of the claims of covered bondholders against the remaining assets of the credit institution**

The purpose of the Primary Legislation, as expressly stated in the introductory note to the law, was to ensure that holders of covered bonds would have dual recourse both to the cover pool as secured creditors and to the remaining assets of the credit institution ranking as unsecured and unsubordinated creditors. This was also expressly stated in the Secondary Legislation.

The programme of the covered bonds may provide that more than one series or issues of bonds may be secured through a single statutory pledge.

The programme may also provide on any other issue related to the priority in satisfaction of the covered bond holders and the way they are organised in a group and they are represented, by derogation from the New Company Law. Furthermore, the parties may agree to apply a foreign law on these matters.

### **Protection of depositors**

In order to not jeopardise the interests of depositors in case of insolvency of a credit institution due to the segregation (discussed above) of high-quality assets in favour of the holders of covered bonds, the Secondary Legislation provides that, in case the cover assets exceed significantly the amount of 20% of the available assets of the credit institution on an unconsolidated basis, the Bank of Greece may impose additional capital adequacy requirements. For the purposes of this calculation available assets are considered to be all assets of the credit institution excluding: (i) assets subject to securitisation; (ii) assets subject to reverse repo agreements; and (iii) assets encumbered in favour of third parties. In exercising its discretion to impose additional capital adequacy requirements the Bank of Greece will take into account qualitative considerations such as:

(i) any deterioration of the average quality of the remaining available assets after the issuance of covered bonds; (ii) the increase of the liquidity of the credit institution combined and any positive effects it may have on its credit rating and prospects; and (iii) the results of additional stress tests. As of November 2014, the authority to impose additional capital requirements was conferred to the European Central Bank subject to and in accordance with the provisions of Regulation (EU) 1024/2013.

After the entry into force of the Capital Requirements Regulation, it should be deemed that provisions of national law on capital requirements have been tacitly abolished. This would apply to the above provision of the Secondary Legislation. The purpose of protecting depositors from an excessive encumbrance of assets is provided indirectly by Article 45 of Directive 2014/59/EU (the "Banking Recovery and Resolution Directive" or "BRRD")<sup>1</sup>, which provides for a minimum requirement of own funds and eligible liabilities, as covered bonds and other secured liabilities are not eligible according to this provision.

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<sup>1</sup> Greece transposed the BRRD through law 4335/2015.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The risk-weighting of covered bonds (both Greek and foreign) is regulated by Article 129 of the CRR. According to this, bonds falling within the provisions of Article 52(4) of the UCITS Directive, as amended and in force, are eligible for preferential treatment, provided that the cover pool consists of the assets enumerated in paragraph 1 of Article 129 of the CRR and the provisions of paragraph 7 of the same article regarding the information provided to holders of covered bonds are met.

Directly issued Greek covered bonds comply with both the UCITS Directive, as amended and in force, and the CRR and, therefore, have the reduced risk-weighting mentioned above in Greece and should also have it in other EU member states. In relation to indirectly issued covered bonds, it must be noted that they do not fall within Article 52(4) of the UCITS Directive, as amended and in force, because they are not issued by a credit institution.

**Issuers:** There are four issuers in Greece: Alpha Bank; National Bank of Greece; Eurobank and Piraeus Bank.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/66/Greek\\_Covered\\_Bonds](https://www.ecbc.eu/framework/66/Greek_Covered_Bonds)



COVERED BOND : Alpha Bank A.E. (1 pool).  
LABEL



### **3.17 HUNGARY**

By Rita Bozzai and Illés Tóth, Takarék Mortgage Bank

#### **I. FRAMEWORK**

Act No. XXX of 1997 on Mortgage Banks and Mortgage Bonds (Mortgage Bank Act) contains the specific rules applicable to mortgage banks and mortgage bonds. Act No. CCXXXVII of 2013 on Credit Institutions and Financial Enterprises is applicable generally to the establishment, operation, supervision and liquidation of mortgage banks, unless otherwise provided by the Mortgage Bank Act. The Directive (EU) 2019/2162 of the European Parliament and of the Council on the Issue of Covered Bonds and Covered Bond Public Supervision and Amending Directives 2009/65/EC and 2014/59/EU will be applied from 8 July 2022. The harmonization work aiming at the implementation of the Directive in the amended Mortgage Bank Act was published on 28 May 2021 in the Hungarian Official Journal.

#### **II. STRUCTURE OF THE ISSUER**

Mortgage banks are specialised credit institutions in Hungary whose business activity is restricted, in principle, to mortgage lending, mortgage refinancing and auxiliary financial services: mortgage banks grant financial loans secured by mortgages on real estate property located on the territory of Hungary and other European Economic Area (EEA) countries. Funds will be raised by way of issuing mortgage bonds. In the Hungarian banking sector only mortgage banks are entitled to issue mortgage bonds ("jelzáloglevél"). Cover assets will be held on the balance sheet of the mortgage bank. All the mortgage bonds of a single mortgage bank are covered by the same (one single) cover pool which is only open to changes with the prior permission of the coverage supervisor, acting in the interest of mortgage bond holders.

#### **III. COVER ASSETS**

The Mortgage Bank Act provides that mortgage banks shall always possess cover surpassing the principal of outstanding mortgage bonds and the interest thereon both on a nominal basis and based on present value calculation. Decree No. 40/2005. (XII.9.) of the Minister of Finance contains the detailed provisions on the present value calculation of cover assets and the methodology of stress tests to be published on a regular basis. Furthermore, mortgage banks shall prepare a manual of keeping the register of cover assets ("fedezetnyilvántartás"), which also needs the approval of the Magyar Nemzeti Bank (MNB, Hungarian Central Bank) in its capacity as financial supervisory authority and the coverage supervisor.

Loans secured by a residential real estate can be taken in cover up to 70% of the mortgage lending value of the property. In case of loans secured by commercial real estate the limit is 60%.

Mortgage bonds are covered by loans secured by mortgages ("jelzálogjog"), independent mortgage liens ("önálló zálogjog"), or by mortgages and joint and several sureties assumed by the Hungarian State ("államkészfizető kezességvállalás"). Supplementary coverage may exclusively consist of liquid assets listed in the Mortgage Bank Act and may not exceed 20% of the total coverage. Pursuant to the Mortgage Bank Act, cover assets must be entered into the register of cover. The availability and quality of cover assets are permanently monitored by the coverage supervisor, reports on availability and quality of cover assets are disclosed on a daily basis.

According to Section 14 (5) of the Mortgage Bank Act, in the case when mortgage bonds and their coverage are not denominated in the same currency, the mortgage bank is obligated to hedge the currency exchange risk by entering into derivative transactions. Section 3 (10) of the Mortgage Bank Act provides that mortgage banks are entitled to conclude such transactions exclusively for hedging purposes, i.e. risk management and liquidity. The Mortgage Bank Act entitles mortgage banks to include derivatives concluded with the aforementioned objectives in the ordinary coverage as well.

#### **IV. VALUATION AND LTV CRITERIA**

The rules of calculation of the mortgage lending value ("hitelbiztosítéki érték") are included in the Decree of the Minister of Finance No. 25/1997 on the Calculation Methods of the Mortgage Lending Value of Real Estate not Qualifying as Agricultural Land and the Decree of the Minister of Agriculture No. 54/1997 on the Calculation Methods of the Mortgage Lending Value of Real Estate Qualifying as Agricultural Land. Both decrees prescribe the use of comparative methods, and prescribe the application of the principle of carefulness in the valuation process. Furthermore, they also determine the validity of the valuation report.

Mortgage banks may also provide appraisal services to determine the market value and the mortgage lending value of real properties.

Mortgage lending value calculation provisions refer to the sustainable aspects of the property. The mortgage bank's internal regulation for determining mortgage lending value is based on methodological principles defined in the above decrees. Such internal regulations are also subject to the former approval of the MNB.

#### **V. ASSET – LIABILITY MANAGEMENT**

As indicated above, the Mortgage Bank Act provides that mortgage banks shall always possess cover surpassing the principal of outstanding mortgage bonds and the interest thereon. Mortgage banks shall comply with the above requirements as follows:

- > The aggregate amount of the outstanding principal claims considered as coverage, reduced by the amount of any value adjustments, shall exceed 100% of the amount of the nominal value of the outstanding mortgage bonds; and
- > The aggregate amount of interest accrued on the outstanding principal claims considered as coverage, reduced by the amount of any value adjustments, shall exceed 100% of the amount of interest accrued on the nominal value of the outstanding mortgage bonds (Section 14 (2) of the Mortgage Bank Act).

Under Section 14 (4) of the Mortgage Bank Act the amount of coverage for mortgage bonds shall always be calculated and published at their present value as well.

Cash flow mismatch between cover assets and cover bonds is furthermore reduced by special prepayment restrictions on the borrowers' side.

#### **VI. TRANSPARENCY**

Mortgage banks shall publish the amount of the nominal value and the accrued interest of the outstanding mortgage bonds as well as the value of the coverage assets in a national daily newspaper and in the Exchange Journal as of the last day of each quarter, before the last day of the next month. Such figures need to be certified by the coverage supervisor and disclosed to the MNB as well. Based on the amendment of MNB's Business Conditions of forint and foreign exchange transactions – effective from 11 November 2019 – domestic mortgage bond issuers are required to publish on their own websites the transparency report defined by the MNB at the end of each quarters with the reporting date of the end of the previous quarter, as a condition for ensuring the repo-eligibility of issued mortgage bonds at MNB.

#### **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The coverage supervisor (cover pool monitor) shall be appointed by the mortgage bank and approved by MNB. According to Section 16 of the Mortgage Bank Act, a company auditor or an auditor may be appointed; however, the coverage supervisor may not be identical with the auditor of the mortgage bank.

As a matter of fact, Hungarian mortgage banks have had one of the "big four" audit companies as coverage supervisor from the beginning of their operations. The coverage supervisor is responsible for monitoring and certifying, on a permanent basis:

- > the existence of eligible security; and
- > the registration of the eligible security in the coverage register. In accordance with Section 11 (2) (n) of the Mortgage Bank Act, a certificate from the coverage supervisor shall be attached to each mortgage bond regarding the existence of the coverage.

According to section 16 (7) of the Mortgage Bank Act, a coverage supervisor may be appointed for a fixed period of time, not exceeding five years, however, he may be re-appointed following the termination of the period of his appointment. Although the contract of appointment concluded between the mortgage bank and the coverage supervisor is governed by civil law, it may not be lawfully terminated without the approval of the MNB. Within the scope of his coverage supervision activities, the coverage supervisor may not be instructed by the mortgage bank.

The MNB is responsible for verifying the compliance of the credit institutions, including the mortgage banks, with the Credit Institutions Act and other acts e.g. the Mortgage Banks Act, and applicable banking regulations. The MNB is entitled to impose various sanctions on credit institutions, including warnings of non-compliance, withdrawing licenses and imposing fines on credit institutions and their management. Section 22 and 23 of the Mortgage Bank Act provides that the Hungarian Financial Supervisory Authority shall exercise special supervision over mortgage banks in addition to the provisions of the Credit Institutions Act and the provisions of the Capital Markets Act. Within the framework of such special supervision, MNB shall draw up an analysis schedule and conduct on site audits of mortgage banks according to the analysis schedule it compiles.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Pursuant to the Mortgage Bank Act a cover pool administrator will be delegated to the insolvent mortgage bank to safeguard the interests of bondholders and derivative partners. The cover pool administrator cannot be identical with the insolvency administrator of the mortgage bank. The cover pool administrator should provide for the timely satisfaction of principal and interest claims of bondholders and derivative partners in case of a possible insolvency situation. The cover pool administrator will only safeguard the interests of bondholders and derivative partners and will also have an access to the part of assets not qualifying as coverage and those not recorded in the cover register. The transfer of the portfolio or parts of it to another mortgage bank may grant for liquidity, however, the transfer of the portfolio or parts of it requires the prior written consent of the MNB.

As a general rule, Section 20/A (4) of the Mortgage Bank Act declares that the cover pool administrator is obliged to maintain the liquidity of the pool on a constant basis, allowing transfer of the pool or parts of it to another mortgage bank and to enter into derivative transactions. Within two years after the commencement of the liquidation procedure, both the cover pool administrator and the bondholders may request the court to complete the cover from the general insolvency estate (Section 20/A (7)). The cover pool administrator shall be entitled to receive remuneration for his work and refund of appropriate expenses. Although holders of the mortgage bonds, derivative partners or the coverage supervisor may inform MNB or the only competent Metropolitan Court Budapest on issuer default, after proving all relevant circumstances, it is only the MNB who is entitled to initiate an insolvency proceeding against the mortgage bank.

Hungarian legal provisions also provide for a wide range of measurements, including extraordinary measurements, to be taken by the MNB prior to any insolvency situation.

For example, the MNB is entitled to delegate a supervisory commissioner to the mortgage bank. This extraordinary measurement may be taken by the MNB prior to the commencement of any insolvency procedure – in accordance with Section 157 (1) of the Credit Institution Act. In this case both the rights of the owners of the mortgage bank and the rights of the management of the mortgage bank will be restricted in order to guarantee the satisfaction of the claims of the mortgage bank's creditors, e. g. bondholders' and derivative partners' claims.

Pursuant to the Section 21 (1) in the course of execution proceedings against a mortgage bank, Act no LIII of 1994 on Execution by Court shall be applied with the deviations set forth in subsections (2)-(3).

Moreover, pursuant to the Section 58 (1) c) of the Act XXXVII of 2014 on the further development of the system of institutions strengthening the security of the individual players of the financial intermediary system: the scope of the bail-in does not extend to mortgage covered bonds.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 of the Capital Requirements Regulation (CRR). Hungarian mortgage bonds comply with the requirements of Article 52(4) UCITS as well as with those of Article 129(1) CRR.<sup>1</sup>

Hungarian covered bonds issued in euro zone countries qualify as European Central Bank (ECB) eligible.

## **X. ADDITIONAL INFORMATION**

The 20/2015. (VI.29.) MNB Decree introduced the Mortgage funding adequacy ratio (MFAR) from 1 April 2017. MFAR = HUF liabilities backed by household mortgage loans / net stock of residential HUF mortgage loans with a residual maturity longer than 1 year. The original minimum required level of the ratio was set at 15%, while it was raised to 20% from 1 October 2018. The ratio was increased further to 25% from 1 October 2019, while further increase of the ratio is widely expected by the sector. As a response to COVID-19, the MNB significantly supported the Hungarian covered bond market via Covered Bond (CB) Purchasing Programme II. effective between April and November 2020. In parallel with the termination of the Programme II. the MNB announced a new Green CB Purchasing Progamme to be launched in the near future (details are not yet available at the time of completing this report).

The Budapest Stock Exchange (or BSE) in cooperation with the MNB introduced three mortgage bond indices in December 2017. The indices constitute of fixed rate HUF denominated mortgage bonds with all the requirements defined in the BSE's handbook. BMBX Total Return, BMBX Yield 3Y and BMBY Yield 5Y indices are available at the BSE website.

The Hungarian government – in accordance with the MNB's suggestion – announced a moratorium for all mortgage and corporate loans until 31st December 2020, effective from March 19, 2020. The payment holiday has been applied for principal, interest and fees under credit facilities, loans and financial leasing. The moratorium applies to all loans existing at midnight 18 March 2020. – referred as, *Moratoria 1*'. The law on the extension of payment moratoria was passed on October 20, 2020, while it was amended on December 22, 2020 – referred as, *Moratoria 2*'. Moratoria 2. is effective until September 30, 2021. Banks shall automatically extend the payment holiday for clients who have been already participating in Moratoria 1. Those, who have not been participating in the moratoria, have to submit their request to the bank.

**Issuers:** OTP Jelzálogbank Zrt. (OTP Mortgage Bank Ltd.), Takarék (ex FHB) Jelzálogbank Nyrt. (Takarek (ex FHB) Mortgage Bank Ltd.), UniCredit Jelzálogbank Zrt. (UniCredit Mortgage Bank Ltd), Erste Jelzálogbank Zrt. (Erste Mortgage Bank Ltd.), and K&H Jelzálogbank Zrt. (K&H Mortgage Bank Ltd.).

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/27/Hungarian\\_Covered\\_Bonds](https://www.ecbc.eu/framework/27/Hungarian_Covered_Bonds)

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

### **3.18 ICELAND**

By Eiríkur Magnús Jansson and Kristín Erla Jónsdóttir Arion Bank

#### **I. FRAMEWORK**

In Iceland, the issuance of covered bonds is governed by the Icelandic Covered Bond Act, which came into force on 20 March 2008 (Lög nr. 11/2008 um sértryggð skuldabréf, hereinafter the “**ICBA**”). The ICBA supersedes the general bankruptcy law to the extent that it grants covered bond investors a priority claim on eligible cover assets (ICBA: Chapter VII). Rules of the Financial Supervisory Authority no. 528/2008 (Reglur nr. 528/2008, hereinafter the “**ICBR**”) established by the Icelandic Financial Supervisory Authority (Fjármálaeftirlitið, hereinafter the “**FME**”) complement the legislation. These rules define in more detail the criteria for obtaining a covered bond issuance license, the universe of eligible cover assets, valuation procedures for eligible cover assets, asset and liability management, and the form and maintenance of the cover register.

#### **II. STRUCTURE OF THE ISSUER**

The FME grants licenses for the issuance of covered bonds. Licenses to issue covered bonds can only be granted to licensed commercial banks, savings banks and credit undertakings. To qualify as an issuer, certain criteria must be met. These criteria include the submission of a financial plan, confirmed by a state authorised public accountant, proving the issuer’s financial stability and that the issuance is in accordance with the ICBA. The FME has the right to withdraw the license should the issuer be in material breach of the ICBA or if the issuer has failed to issue covered bonds within one year of receiving the license (Table 1).

> TABLE 1: LICENCE NEEDED TO ISSUE COVERED BONDS

##### Requirements for issuance license

- > Issuer must supply the FME with a board resolution that the board approves the application for a covered bond license.
- > Description of the proposed bond issuance and how the issuer intends to keep and organise the covered bond register.
- > Information about the covered bond register, e.g. how the issuer will maintain the register as well as how the register will be supervised.
- > The FME can allow an issuer to convert previously issued bonds used to finance assets that are eligible under ICBA into covered bonds.
- > The issuer well plan, confirmed by a public accountant, proving the issuer’s financial stability for at least the next three years; a description of the proposed covered bond issuance and how the issuer intends to organise and administrate the covered bond issuance; and the covered bond register as well as written confirmation from the issuer that he and the planned bond issue comply with the ICBA and ICBR.
- > The issuer must submit information about IT systems used in relation to the covered bond issuance.
- > The issuer must submit any other information that is relevant for the proposed bond issuance.
- > A written statement from the issuer that it and the issue fulfil the requirements made by the ICBA and the ICBR.

The cover assets represent a claim of the covered bond issuer and remain on the balance sheet. There is no subsequent transfer of cover assets to another legal entity. The covered bonds are direct, unconditional obli-

gations on the part of the issuer. Outstanding covered bonds are backed in their entirety by the cover pool. Hence, there is no direct legal link between a single cover asset and a particular covered bond series. In the event of issuer insolvency, the cover pool is bankruptcy remote from the general insolvency estate of the issuer and exclusively available to meet outstanding claims under the issue of the covered bond investors. It should also be noted that the covered bond investors enjoy recourse to the insolvency estate of the issuer, ranking pari passu with senior unsecured investors.

### **III. COVER ASSETS**

Eligible assets in the covered bond register are mortgage loans and public sector assets (ICBA Chapter II, Article 5). The ICBA does not require a separate cover pools for mortgage and public sector cover assets. Both asset classes can be mixed in one cover pool. Icelandic covered bond issuers have issued covered bonds where the asset register consists exclusively of residential mortgages.

Eligible assets ("Cover Assets") according to ICBA are:

- > Mortgages secured by residential housing in member states<sup>1</sup>;
- > Mortgages secured by industrial, office or commercial property in member states;
- > Mortgages secured by farms and other real estate used for agricultural purposes in member states; and
- > Public sector assets defined as bonds issued by the Icelandic state or other member state, a municipality in Iceland or in another member state, or guaranteed by such public authority.

### **Derivative contracts**

The ICBA authorise the use of derivatives for hedging interest and currency risk. The derivatives must be structured such that premature termination is not triggered by an issuer default or a demand by the counterparty. Derivative counterparties must have a rating from a rating agency approved by the FME. The minimum is a long-term rating of A3/A-/A- (Moody's/S&P/Fitch) or short-term rating of P2/A2/F2. If the counterparty's rating falls below the minimum level, the issuer of covered bonds can:

- > Request additional collateral;
- > Terminate the derivative contract and open a new derivative contract with a counterparty that meets the minimum rating requirement, or;
- > Request that the counterparty provides a guarantee from a third party that meets the minimum rating requirement.

### **Substitute assets**

The ICBA allows for the inclusion of the following assets as Substitute Collateral (Article 6):

- > Demand deposits with a regulated financial undertaking;
- > Deposits with or claims against a member state or a central bank in a member state;
- > Claims against other legal entities which, the FME views as not involving greater risk than the aforementioned options.

Further, FME may approve the following as substitute collateral:

- > Claims against municipalities in member states;
- > Claims against a regulated financial firm other than demand deposits with a regulated financial undertaking (as referred to above), provided the final maturity of the claim is within one year of issuance;

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<sup>1</sup> Member state: a state which is a party to the Agreement on the European Economic Area.

- > Claims against non-Icelandic development banks listed in rules adopted by the FME;
- > Claims against other legal entities which do not involve greater risk than the substitute collateral referred to in other items of this paragraph.

It should be noted that Substitute Collateral may not comprise more than 20% of the value of the cover pool. The FME may however authorise an increase in the proportion of substitute collateral in the cover pool to as much as 30% of its value.

#### **IV. VALUATION AND LTV CRITERIA**

The ICBA defines valuation principles for the properties that are used as a Cover Assets (ICBA: Chapter III, Article 7). An assessment of the market value of real estate shall be based on the selling price in recent transactions with comparable properties. If the market value of real estate is not available, it shall be determined by a specific valuation. The valuation shall be based on generally accepted principles for market valuation of real estate. Among the data that can be used as a basis is data on real estate price developments from the Land Registry of Iceland, together with other generally accepted systematic collection of real estate price data.

If an issuer assesses the market value of real estate, the Independent Inspector (as defined below) must verify that the appraisal is based on a generally accepted methodology. The Independent Inspector may re-assess the market price of one or more properties if he/she regards the valuation as incorrect.

An appraisal of the market value of real estate must be in writing and must specify the methodology used, who carried out the appraisal and when it was made.

For the various mortgage types eligible as Cover Assets, the maximum LTV ratios apply (ICBA: Chapter III, Article 7):

- > 80% of the value for real estate.
- > 70% of the value for real estate intended for agricultural use (some restrictions apply).
- > 60% of the value for real estate, where the property is intended for office or commercial use.

#### **V. ASSET – LIABILITY MANAGEMENT**

The ICBA requires that the nominal value of the Cover Assets at all times exceed the aggregate nominal value of claims arising from outstanding covered bonds against the issuer (ICBA: Chapter V, Article 11). In addition, the law requires that on a net present value (NPV) basis, cover assets, including derivatives, always exceed the corresponding value of the interest and principal of outstanding covered bonds, taking into account the effects of stress-test scenarios on interest and currency risk set by the FME. The FME defines the stress test for interest-rate risk as a sudden and sustained parallel shift in the reference curve by 100bps up and down. The reference curve is based on Icelandic government bonds for covered bonds in Icelandic krona but swap rate curves for other currencies. Likewise, it defines currency risk as a 10% sudden and sustained change in the relevant foreign exchange rate between the currency of covered bonds and the currency of cover assets (ICBR: Chapter 4, Article 8). The ICBA does not require a mandatory level of minimum overcollateralisation ("OC"). However, the issuer can adhere to a self-imposed OC level for structural enhancement, as the ICBA protects any OC in the cover pool in the event of issuer insolvency.

Finally, the issuer shall ensure that the cash flow with respect to the Cover Assets, derivatives agreements and the covered bonds are such that the issuer is always able to meet its payment obligations towards holders of covered bonds and counterparties in derivatives agreements (ICBA: Chapter V, Article 12). The issuer should be able to account for these funds separately.

## **VI. TRANSPARENCY**

The issuers currently present information regarding their cover pool and outstanding covered bonds on a monthly or at least on quarterly basis. This information is currently available on the issuer's website.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Issuers of covered bonds fall under the supervision of the FME, which monitors the issuers' compliance with the ICBA and other related regulatory provisions (e.g. ICBR). If a covered bond issuer is in a material breach of its obligation under the legal framework, the FME can give the issuer a formal warning or revoke the issue license altogether. The FME may also revoke a license if the institution has declared that it has no intention to use the license to issue covered bonds or if the institution has not made use of the license within a year from the date of receiving the license. The revocation may be combined with an injunction against continuing the operations and with the imposition of a conditional fine. In any case, the FME must determine how the operations should be wound up (ICBA: Chapter IX, Articles 24–29).

Each issuer must appoint an independent and suitably qualified cover pool inspector (the "**Independent Inspector**" and such appointment must be validated by the FME. The duties of the Independent Inspector are to monitor the register and verify that the covered bonds, the derivatives agreements and the Cover Assets are correctly recorded. The Independent Inspector also ensures compliance with matching and market risk limits in accordance with ICBA. The institution is obliged to provide the Independent Inspector with any information requested relating to its covered bond operations. The Independent Inspector must submit a report of the inspection to the FME on an annual basis and must notify the FME as soon as he/she learns about an event deemed to be significant to the supervisory authority (ICBA: Chapter VII, Articles 21–23).

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

### **Cover register**

The issuer must keep a detailed register of Cover Assets derivative contracts and outstanding covered bonds (ICBA: Chapter VI, Section 13). The law further specifies the form and content of such a register, which must be easily accessible to the FME and the Independent Inspector. The registration legally secures covered bond holders and derivatives counterparties a priority claim on the cover pool in the event of issuer insolvency (ICBA: Chapter 7, Section 15). Prior to an issuer being declared insolvent, cash flows accruing from the Cover Assets must be accounted for separately by the issuer. In the event of issuer default, covered bond investors and derivative counterparties have the same priority claim on these funds as they have on the cover pool. Moreover, cash flow accruing from the Cover Assets following issuer insolvency must be registered in the cover pool.

### **Issuer insolvency**

In the event of issuer insolvency, the Cover Assets and the respective covered bonds are segregated from the insolvency estate of the issuer. An issuer default does not trigger the premature termination of registered derivative contracts. Covered bond holders and registered derivative counterparties have a priority claim on the cover pool and cash that derives from the pool, ensuring timely repayment to original agreed terms, as long as the pool complies with the ICBA. It should be noted, however, that the cover pool does not constitute a separate legal estate.

### **Cover pool insolvency and preferential treatment**

In the event that the cover pool breaches eligibility criteria, covered bonds are accelerated. Covered bond investors and derivative counterparties would have priority claim on the proceeds from the sale of the cover assets, ranking pari passu among themselves. If the proceeds are insufficient to repay all liabilities on outstanding covered bonds, covered bond investors and derivative counterparties have an ultimate recourse to the insolvency estate of the issuer, ranking pari passu with senior unsecured investors.

### **Survival of OC**

Any OC present in the cover pool at the time of issuer insolvency is bankruptcy-remote provided it is identified in the cover pool register. Indeed, the CBIA requires full repayment of outstanding claims on covered bonds and registered derivatives before Cover Assets are available to satisfy claims on unsecured creditors. The law does not provide for the appointment of a special cover pool administrator in case of issuer insolvency. The receiver-in-bankruptcy represents the interest of both the covered bond investors and the unsecured investors. The receiver has the right to use OC to pay advance dividends to other creditors of the bankrupt issuer if the pool contains more assets than necessary. If the Cover Assets later prove to be insufficient, these advance dividend payments can be reclaimed.

### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 of the Capital Requirements Regulation (CRR<sup>2</sup>). Icelandic covered bonds comply with the criteria of Article 52(4) UCITS and with the covered bond criteria defined in Article 129(1) CRR. The ICBA explicitly lists mortgages against property for agricultural purposes and mortgages against the pledging of tenant-owner rights as eligible cover assets, while the CRR does not. In addition, issuers can impose self-restrictions to ensure that their covered bond issues comply with the CRR. Icelandic covered bonds are not eligible for repo transaction with the Icelandic Central Bank.

### **X. ADDITIONAL INFORMATION**

#### **Legislative covered bonds in Iceland**

Arion Bank and Íslandsbanki were both granted a license to issue covered bonds under ICBA in the fall of 2011 and both followed up by issuing covered bonds denominated in Icelandic krona to domestic investors. Landsbankinn was granted a license to issue covered bonds in April 2013 and issued their first covered bonds in June 2013. The banks use their covered bond programs to fund their residential mortgage portfolios.

Historically most of the mortgages in Iceland were inflation linked. In recent years there has been a general shift from inflation linked mortgages to a more traditional style fixed rate and floating rate mortgages. In 2020 a large majority of granted mortgages were variable rate. The market for mortgages has changed significantly recently with commercial banks being the primary providers of new mortgages replacing government owned Housing Financing Fund and domestic pension funds as primary providers of mortgages.

**Issuers:** There are currently three issuers in Iceland – Arion Bank, Íslandsbanki and Landsbankinn.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/108/Icelandic\\_Covered\\_Bonds](https://www.ecbc.eu/framework/108/Icelandic_Covered_Bonds)

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<sup>2</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.



### **3.19 IRELAND**

By Group Legal Services team, Bank of Ireland and Nick Pheifer, DEPFA BANK

#### **I. FRAMEWORK**

Irish covered bonds benefit from the protection of specific covered bond legislation in the Irish Asset Covered Securities Acts 2001 and 2007 (the "ACS Acts") and the regulations and regulatory notices issued thereunder. The framework provides for the issuance of asset covered securities ("ACS") secured on public credits, mortgage credits (each, as defined below) and commercial mortgage credits (being obligations secured on commercial property assets). There is currently no issuer of ACS secured on commercial mortgage credits in the Irish market and consequently this chapter focuses on the framework applicable to ACS secured on public credits and mortgage credits.

#### **II. STRUCTURE OF THE ISSUER**

An issuer of ACS (an "ACS Issuer") must be an authorised credit institution and also be registered under the ACS Acts as a 'designated' credit institution. Such designated status is granted by the Central Bank of Ireland ("CBI") and an ACS Issuer will be registered as a designated public credit institution (a "DPCI") (authorised to issue public credit covered securities) and/or as a designated mortgage credit institution (a "DMCI") (authorised to issue mortgage credit covered securities).

The ACS Issuer holds the assets backing the ACS on its balance sheet. The collection of either mortgage credit assets or public credit assets (the "cover assets") backing the issue of ACS (the "cover pool") is dynamic in the sense that the ACS Issuer may move cover assets in and out of the cover pool provided that it does so in accordance with the provisions of the ACS Acts. The ACS Issuer must maintain a register (a "cover register") of all ACS issued, all cover assets hedge contracts and the cover assets (including any substitution assets and any cover assets constituting overcollateralisation) and any amendment to the cover register can only be effected with the approval of a cover-assets monitor (the "CAM") which is an independent professional third party, or the CBI (see further section VII below).

#### **Statutory preference**

The claims of ACS holders are protected by a statutory preference under the ACS Acts. As preferred creditors, upon an ACS Issuer insolvency, ACS holders are entitled to have recourse to the cover assets included in the cover pool ahead of all other creditors of the ACS Issuer other than the super-preferred creditors (the CAM and NTMA – see further section VIII below) and pari passu with other preferred creditors (such as the pool hedge counterparties – see further section V below). In this way the ACS holders have protection against the general Irish insolvency laws.

#### **Restriction on business activities**

The ACS Acts provide that an ACS Issuer may not carry on a business activity other than a permitted business activity as set out in the ACS Acts. Permitted business activities comprise dealing in and holding public credit assets or mortgage credit assets (depending on the ACS Issuer's designation) and limited classes of other assets, engaging in activities connected with the financing and refinancing of such assets, entering into certain hedging contracts, holding collateral under cover assets hedge contracts (referred to in the ACS Acts as "pool hedge collateral") and engaging in other activities which are incidental or ancillary to these activities. The ACS Acts limit the scope of non-core ACS business that an ACS Issuer can undertake by restricting its dealing in or holding of financial assets that are not otherwise eligible for inclusion in the cover pool to 10% of the total of all the ACS Issuer's assets.

#### **III. COVER ASSETS**

The classes of assets which are eligible for inclusion in a cover pool are determined by the designation of the ACS Issuer.

### **DPCIs**

The classes of asset eligible for inclusion in the cover pool of a DPCI ("public credit assets") are financial obligations (collectively, "public credits"), including obligations given as a guarantor or surety and indirect or contingent obligations, in respect of money borrowed or raised (whether in the form of a security that represents other public credit that is securitised or not) where the obligor is any one of the following:

- > Central governments, central banks (each, a "Sovereign"), public sector entities, regional governments or local authorities (each, a "Sub-sovereign") in any EEA country;
- > Sovereigns in Australia, Canada, Japan, New Zealand, the Swiss Confederation or the USA (each, an "Eligible Non-EEA Country");
- > Sub-sovereigns in any Eligible Non-EEA Country; and
- > Multilateral development banks or international organisations, in each case which qualify as such for the purposes of the Capital Requirements Regulation ("CRR").

Risk-weighting and credit worthiness tests apply to the categories of cover assets outside the EEA countries to comply with the CRR covered bond eligibility requirements. Sovereign obligations from an Eligible Non-EEA Country must have an independent credit rating of at least step 1. Sub-sovereign obligations from an Eligible Non-EEA Country must have an independent credit rating of at least step 1 and a risk-weighting at least equal to that of an institution, central government or central bank. Sovereign and Sub-sovereign obligations from an Eligible Non-EEA Country with credit ratings below step 1 but at least step 2 may also be included in the cover pool provided that in total they do not exceed 20% of the nominal amount of outstanding ACS.

### **DMCIs**

Those assets eligible for inclusion in the cover pool of a DMCI ("mortgage credit assets") are financial obligations (collectively, "mortgage credits"), including obligations given as a guarantor or surety and indirect or contingent obligations, in respect of money borrowed or raised (whether in the form of a security that represents other mortgage credit that is securitised or not) that are secured by a mortgage, charge, or other security on residential or commercial property that is located in any EEA country or any eligible Non-EEA country. This is subject to a concentration limit, for mortgage credit assets secured on commercial property, of 10% of the total prudent market value of all mortgage credit assets and substitution assets in the cover pool. Non-performing mortgage credit assets may not be added to a cover pool. Furthermore, a mortgage credit asset may not be counted as part of a cover pool if a building related to that mortgage credit asset is being or is to be constructed until the building is ready for occupation as a commercial or residential property. A mortgage credit institution may also include securitised mortgage credits in its cover pool subject to certain credit quality and other criteria and a concentration limit of 10% of the aggregate value of the related outstanding ACS.

### **Substitution assets**

Substitution assets can be included in cover pools provided that they comply with applicable CRR requirements and certain other restrictions. These are deposits having a minimum credit rating of step 2 and a maximum maturity of 100 days with eligible financial institutions.

## **IV. VALUATION AND LTV CRITERIA**

### **DPCI**

Public credit assets maintained in the cover pool of a DPCI are ascribed a prudent market value equal to 100% of the amount of the related public credit outstanding on the date of valuation.

## **DMCI**

The maximum prudent loan to value ("LTV") levels for mortgage credit assets included in the cover pool of a mortgage credit institution are 75% for mortgage credit assets backed by residential property and 60% for those backed by commercial property. Prudent LTV levels for mortgage credit assets in the cover pool can exceed the 75% threshold, however the balance of the mortgage credit above this threshold is disregarded for valuation purposes.

A DMCI is first required to determine the market value of a property asset at the time of origination. Property valuations are conducted by independent valuers. The DMCI then calculates the prudent market value of such property asset at the time of inclusion of the asset in the cover pool and also at such intervals (at least annually) as may be specified by the CBI. In addition, a DMCI is required to calculate the prudent market value of mortgage credit assets and securitised mortgage credits included in the cover pool on a quarterly basis, or more frequently if so instructed by the CAM, for the purposes of demonstrating compliance with the asset-liability and overcollateralisation requirements of the ACS Acts. In practice, the prudent market value of relevant property assets is calculated on a quarterly basis also as this calculation forms part of the valuation process for mortgage credit assets.

For these subsequent calculations, the DMCI must apply the house price index published by Permanent TSB and/or the house price index published by the Irish Central Statistics Office (depending on the date of origination) to the valuation obtained at origination, with same being verified by the CAM on a monthly basis.

## **V. ASSET-LIABILITY MANAGEMENT**

The ACS Acts include important asset-liability controls to minimise various market risks.

- > Duration matching: The weighted average term to maturity of a cover pool cannot be less than that of the related ACS.
- > Overcollateralisation: The prudent market value of the cover pool must be at least 3% greater than the total of the principal amount of the related ACS in issue (see also Overcollateralisation below).
- > Interest matching: The amount of interest payable on cover assets over a 12-month period must not be less than the amount of interest payable on the related ACS over the same 12-month period.
- > Currency matching: Each cover asset must be denominated, after taking into account the effect of any cover assets hedge contract, in the same currency as the related ACS.
- > Interest rate risk control: The net present value changes on the balance sheet of an ACS Issuer arising from (i) 100bps upward shift, (ii) 100bps downward shift and (iii) 100bps twist, in the yield curve, must not exceed 10% of the ACS Issuer's total own funds at any time.

### **Hedge contracts**

Hedge contracts are used in the cover pool to minimise risks on interest rates, currency exchange rates, credit or other risks that may adversely affect the ACS Issuer's business activities that relate to an ACS or cover assets. All such hedge contracts are required to be entered on the cover register by the ACS Issuer. Pool hedge counterparties rank as preferred creditors, pari passu with the ACS holders, provided they are not in default of their financial obligations under that hedge contract. Upon the insolvency of an ACS Issuer, a hedge contract will remain in place subject to its terms. Any collateral posted under a hedge contract by a pool hedge counterparty must be recorded on a separate register maintained by the ACS Issuer.

### **Overcollateralisation**

The ACS Acts prescribe a minimum overcollateralisation of ACS for DMCIs and DPCIs of 3% calculated on a present value basis. It has been the market practice for ACS Issuers to contractually commit to higher levels.

The CAM is responsible for monitoring the levels of legislative and contractual overcollateralisation. Upon an ACS Issuer insolvency, ACS holders will benefit from any cover assets which make up the overcollateralisation to the extent of their claims.

## **VI. TRANSPARENCY**

### **Disclosure in financial statements**

All ACS Issuers are required to make specific disclosures in relation to their cover assets in their annual financial statements.

#### **DPCIs**

A DPCI is required to disclose as at the date to which its financial statements are made up:

- > the geographic location of its public credit assets and the volume and percentage of assets in each such location; and
- > details of public credit assets secured on loans to multilateral development banks and international organisations and the volume and percentage of such assets.

#### **DMCIs**

A DMCI is required to disclose, in respect of the date to which its financial statements are made up, details of:

- > the number of mortgage credit assets, broken down by amount of principal outstanding;
- > volume and percentage of assets in each geographic location;
- > the number and principal amounts outstanding of non-performing mortgage credit assets;
- > whether or not any persons who owed money under mortgage credit assets had, during the immediately preceding financial year (if any), defaulted in making payments in respect of those assets in excess of EUR 1,000 (so as to render them non-performing for the purposes of the ACS Acts), and if so, the number of those assets that were held in the cover pool;
- > the number of non-performing mortgage credit assets replaced with other assets;
- > the total amount of interest in arrears in respect of mortgage credit assets that has not been written off;
- > the total amounts of principal repaid and interest paid in respect of mortgage credit assets; and
- > the number and the total amount of principal outstanding on mortgage credits that are secured on commercial property.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

One of the key features of the ACS Acts is the rigorous monitoring role undertaken by the CAM. The CAM is appointed by the ACS Issuer and approved by the CBI.

There are strict eligibility requirements for CAMs. A CAM must be a body corporate or partnership, comprising personnel or partners who are members of a professional representative body. It must demonstrate to the CBI that it is experienced and competent in (i) financial risk management techniques, (ii) regulatory compliance reporting and (iii) capital markets, derivatives, and, as applicable, public credit business and mortgage credit business. The CAM must also demonstrate that it has sufficient resources at its disposal and sufficient academic or professional qualifications and experience in the financial services industry to satisfy firstly, the designated credit institution and secondly, the CBI, that it is capable of fulfilling this role.

The CAM is responsible for monitoring the cover pool, the ACS Issuer's compliance with specific provisions of the ACS Acts and reporting any breaches to the CBI. The CAM issues regular reports to the ACS Issuer (every 1-4 weeks) and submits a report on a quarterly basis to the CBI.

Some of the CAM's principal obligations include: ensuring that the matching requirements of the ACS Acts with respect to the cover assets and the ACS are met; ensuring that the asset eligibility requirements are met; approving any inclusion in or removal from the cover register, of a cover asset, ACS or hedge contract; checking that the level of substitution assets included in the cover pool does not exceed the prescribed percentage; and ensuring that the legislative and contractual levels of overcollateralisation are maintained.

The CBI is responsible for supervising the ACS Issuers. The CBI may, with the consent of the Minister for Finance, revoke the registration of an ACS Issuer and/or suspend its business if such ACS Issuer breaches any provision of the ACS Acts. In addition, the CBI has wide-ranging powers under the Irish Central Banking legislation to impose significant fines and administrative sanctions on ACS Issuers and/or their senior management for contraventions of the ACS Acts.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

As noted above under section II, an ACS Issuer holds its cover assets on its balance sheet. However, the cover assets are ring-fenced from the other assets of the ACS Issuer for the benefit of ACS holders by virtue of (i) their being recorded on the cover register, and (ii) a statutory preference created by the ACS Acts.

### **Segregation: Cover register**

Each ACS Issuer must maintain a cover register including the details of its ACS in issue, the cover assets and substitution assets backing its ACS and any cover assets hedge contracts in existence. The cover register is important as a cover asset or a cover assets hedge contract cannot be described as such unless and until it is recorded on the register. Their registration is *prima facie* evidence of such assets and hedge contracts being included in the cover pool, entitling the ACS holders and pool hedge counterparties to benefit from the insolvency protection specified in the ACS Acts in respect of such assets and hedge contracts. An ACS Issuer may only remove or amend a register entry with the consent of the CAM or the CBI which further safeguards the interests of ACS holders.

### **Preferential treatment of ACS holders**

Once a cover asset has been entered in the cover register, it will remain a cover asset for the benefit of ACS holders and other preferred creditors until the CAM or the CBI has consented to its removal from the cover register and consequently, the cover pool. Cover assets included in a cover pool do not form part of the assets of the ACS Issuer for the purposes of insolvency until such time as the claims of ACS holders and other preferred creditors under the ACS Acts have been satisfied.

If the claims of the ACS holders (and other preferred creditors, including the pool hedge counterparties) are not fully satisfied from the proceeds of the disposal of the cover assets, such parties are, with respect to the unsatisfied part of their claims, to be regarded as unsecured creditors in the insolvency process.

### **Impact of insolvency proceedings on ACS and hedge contracts**

Upon insolvency of an ACS Issuer, all ACS issued remain outstanding and all cover assets hedge contracts will continue to have effect, subject in each case, to the terms and conditions of the documents under which they were created.

The claims of ACS holders on the cover pool are protected by operation of law. Cover assets and hedge contracts that are included in a cover pool are not liable to interference by a bankruptcy custodian or similar person whether by attachment, sequestration or other form of seizure, or to set-off by any persons, that would otherwise be permitted by law so long as claims secured by the insolvency provisions of the ACS Acts remain unsatisfied. ACS holders have recourse to cover assets ahead of all other non-preferred creditors regardless of whether the claims of such other creditors are preferred under any other enactment or any rule of law and whether those claims are secured or unsecured.

### **The role of the manager and access to liquidity in case of insolvency**

The ACS Acts makes provision for the management of the asset covered securities business of an ACS Issuer upon an ACS Issuer insolvency through the services of the Irish National Treasury Management Agency ("NTMA"). If no suitable manager can be found by the CBI or the NTMA, the NTMA will attempt to locate an appropriate body corporate as a new parent entity for the ACS Issuer. Failing that, the CBI will appoint the NTMA to act as a temporary manager until a suitable manager or new parent entity is found. Upon appointment, a manager will assume control of the cover assets, the asset covered securities business and all related assets of the ACS Issuer. The manager is required to manage the ACS business of the ACS Issuer in the commercial interests of the ACS holders and the pool hedge counterparties. The manager will have such powers as may be designated to it by the CBI under its notice of appointment. It is possible for a manager to obtain a liquidity facility through the use of a hedge contract, such hedge contract if recorded on the cover register would constitute a cover assets hedge contract for the purposes of the ACS Acts and the pool hedge counterparty would rank pari passu with ACS holders and any other pool hedge counterparties.

### **IX. RISK-WEIGHTING AND COMPLIANCE WITH EUROPEAN LEGISLATION**

The ACS meet the requirements of Article 52(4) UCITS. The eligibility of cover assets set out in the ACS Acts also match the criteria for the preferential risk-weighting of covered bonds set out in the CRR<sup>1</sup>. The ACS Acts will require change to comply with the recently published Directive and Regulations on harmonising European Covered bonds (Directive 2019/2162 and Regulation 2019/2160).

**Issuers:** As of 1 July 2021, there are four ACS Issuers with outstanding covered bonds – Bank of Ireland Mortgage Bank, DEPFA ACS BANK DAC, AIB Mortgage Bank and EBS Mortgage Finance.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/28/Asset\\_Covered\\_Securities\\_-\\_ACS](https://www.ecbc.eu/framework/28/Asset_Covered_Securities_-_ACS)



COVERED BOND : AIB Mortgage Bank (1 pool), Bank of Ireland Mortgage Bank (1 pool).

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<sup>1</sup> For further information on the UCITS Directive and the Capital Requirements Regulation (CRR) please see:  
<https://hypo.org/ecbc/covered-bonds/>.

### **3.20 ITALY**

By Marco Marino, Italian Banking Association

#### **I. FRAMEWORK**

The Italian Legislator enacted a new regulation (Law no. 80/2005) in May 2005, by means of which two specific articles (article 7-*bis* and article 7-*ter*) were inserted into the existing Italian securitisation law (Law no. 130/1999), providing for covered bonds.

The legislator decided to supplement Law no. 130/99 rather than adopt a separate and autonomous law/legal framework, in light of the markets' and international operators' positively assessing Italian securitisation law. They found that the law introduced an established and reliable legal framework (e.g. from a standpoint of "bankruptcy remoteness").

Pursuant to paragraph 5 of the first of the two articles mentioned above, on 14<sup>th</sup> December 2006, the Ministry of Economy and Finance issued secondary rules in relation to some key issues of the structure. In particular, implementing rules have been enacted with respect to the type of assets eligible for the cover pool, the maximum allowed ratio between transferred assets and issuable securities, the type of guarantee to be provided to bondholders by the SPV.

As for the last procedural step, which formally allows Italian banks to start issuing covered bonds, the Bank of Italy enacted its implementing measures on 17 May 2007, in relation to the requirements to be complied with by issuing banks, the criteria to be adopted to evaluate the cover assets and the relevant formalities to integrate such assets, as well as the formalities to check that the banks are complying with their obligations under the same article 7-*bis*, also through auditors.

Under decree law 18/2016 article 13-*bis*, converted in law in April – law 49/2016 – the Italian legislator has set the compliance for "Obbligazioni Bancarie Collateralizzate" (OBC). This new instrument is a collateralised bond comparable with the European Secured Notes (ESN) for his structure – double recourse instrument – and since the nature of the eligible assets in the cover pool, mainly: SME loans, corporate bonds, aircraft loans and ship loans.

#### **II. STRUCTURE OF THE ISSUE OF COVERED BONDS**

Pursuant to the abovementioned article 7-*bis*, the structure of a covered bond transaction is as follows:

1. Bank transfers' eligible assets to a special purpose vehicle (SPV), whose sole corporate purpose is the purchase of such assets and the granting of a guarantee for the issued securities over which bondholders have a senior claim;
2. The SPV purchases the transferred assets by means of a loan granted or guaranteed to it by a bank (not necessarily the same bank transferring the assets);
3. The bank transferring the assets (or another bank) issues covered bonds;
4. The assets purchased by the SPV are applied to satisfy the rights attaching to the covered bonds and the counterparties of derivative agreements entered into for hedging the risks related to the assets, and to pay the costs of the transaction.

According to the Bank of Italy's regulation, covered bonds can be issued by banks with the following prerequisites:

- > Own funds not lower than EUR 250 million;
- > A total capital ratio not lower than 9%.

It is also provided that these requisites must be fulfilled by the transferring banks as well (i.e. cover pool providers) if they are not the issuers.

There are no business restrictions to the issuer's activity, hence there is no special banking principle that needs to be enforced. Bondholders hold a preferential claim on the cover assets and the covered bonds are direct, unconditional obligations of the issuer.

In October of 2018, Bank of Italy's regulation has been amended, in order to allow banking institutions which are not complying with the above capital requirements, to issue covered bond.

In particular, according to the new provisions, the issuing bank that does not meet the above capital requirements may establish a covered bond programme upon notification to the Bank of Italy that gives evidence of several requirements, accompanied by a report from the compliance function. Bank of Italy could deny the authorisation of the covered bond programme.

The new rules anticipate the principles expressed in the new European directive on covered bonds.

### **III. COVER ASSETS**

As provided for by paragraph 1 of Article 7-bis of the securitisation law, the eligible assets as coverage for covered bonds are:

- a) Residential mortgage loans with a maximum LTV of 80% or commercial mortgage loans with a maximum LTV of 60%;
- b) Claims owed by (or guaranteed by) the following entities, up to 10% of the cover pool:
  - > public entities of EEA member countries and Switzerland with a maximum risk-weight of 20%;
  - > public entities of non-EEA member countries with a risk weight of 0%;
  - > other entities of non-EEA member countries with a risk weight of 20%.
- c) Notes issued under a securitisation transaction backed (for a minimum of 95%) by the claims under the abovementioned letters a) and b), that qualify for the credit quality step 1 under the Standardised approach. In case the covered bonds are backed by notes issued under a securitisation transaction for more than 10% of the issuance nominal value, the following additional conditions must be fulfilled:
  - > the residential or commercial mortgage loans must have been originated within the banking group of the issuer;
  - > the issuer or an entity consolidated in the same banking group holds the risk underlying the entire junior tranche;
  - > the issuer and the SPV are able to verify, on an ongoing basis, the eligibility and the volumes of the securitised assets and to provide the asset monitor with all the relevant information it may require to perform its controls.

As regards the transferring of such eligible assets to the SPV, the Bank of Italy sets different limits according to the different regulatory capital levels of the issuer (see Figure 1).

> FIGURE 1

Regulatory capital level		Transfer limitations
<b>Class A</b>	Tier 1 ratio $\geq$ 9% and Core Equity Tier 1 ratio $\geq$ 8%	No limitations
<b>Class B</b>	Tier 1 ratio $\geq$ 8% and Core Equity Tier 1 ratio $\geq$ 7%	Eligible assets can be transferred up to 60% of total
<b>Class C</b>	Tier 1 ratio $\geq$ 7% and Core Equity Tier 1 ratio $\geq$ 6%	Eligible assets can be transferred up to 25% of total

As provided for by the secondary legislation enacted by the Italian Ministry of Economy, assets must have at least equal liabilities, both on the nominal and NPV bases, and the revenues arising from cover assets must be sufficient to pay coupons to bondholders and to cover the cost of derivative transactions.

The integration of cover assets can be performed through:

1. The transfer of additional eligible assets to the pool;
2. The opening of deposit accounts at banks located in an EEA member country, or in other countries with a 0% risk-weight;
3. The transfer of banks' own debt securities (with maturity of less than 1 year) to the pool.

It is also provided that integration through assets under points 2 and 3 is allowed only up to 15% of the cover pool's nominal value. With respect to such provisions, the Bank of Italy established that integration is allowed only to:

- > Maintain the ratio of the issued bond to cover assets up to the abovementioned level provided for by the Ministry of Economy;
- > In case of voluntary overcollateralisation, maintain the ratio of the issued bond to cover assets up to the contractually-agreed limit;
- > Respect the abovementioned 15% limit for eligible supplementary assets.

#### **IV. ASSET-LIABILITY MANAGEMENT**

In order to allow the SPV to fulfil its obligations, issuing banks are required to adopt proper asset-liability management techniques and to perform specific controls at least every 6 months, to ensure that the proceeds from the cover pool assets are always sufficient to pay the coupons on the covered bonds, and the overall cost of the transaction.

#### **V. COVER POOL MONITOR AND BANKING SUPERVISION**

As far as regulatory supervision is concerned, the Bank of Italy sets and monitors, on an ongoing basis, the abovementioned specific eligibility requirements for issuing banks which are stricter than those provided for traditional banking activities. These parameters require, in particular, own funds of at least EUR 250 million and a consolidated total capital ratio of at least 9%. It is also provided that eligible assets may be assigned to the SPV only subject to a series of restrictions, graduated based on the total capital ratio and Tier 1 ratio at the consolidated level.

Although in some European countries the issuance of covered bond is subject to a "licence" granted by the Supervisory Authority upon the fulfilment of specific requirements, the Italian legislator has decided to make a different choice. Rather than introducing a "licence" system, it has defined a series of requirements and limitations to issuance which together can be de facto considered as the objective basis upon which to grant an issuance authorisation. Moreover, it must be considered that such requirements and limitations are in most cases stricter than those required by other regulatory frameworks.

Furthermore, Italian regulation prescribes that the monitoring of the regularity of the transaction and of the integrity of the collateral securing investors must also be performed by an external asset monitor (AM) appointed by the issuer. The AM must be an auditing firm possessing the professional skills required to perform such duties and must be independent from the bank engaging it (e.g. it cannot be the same firm appointed to audit the accounts of the issuing bank) and of any other person participating in the transaction. It has to report at least once a year to the Board of Directors and to the internal audit department of the bank.

Although no specific reporting to the Bank of Italy is prescribed by law, in practice the AM will report to the Supervisor any material anomaly found. It must also be considered that the AM's report is reviewed by the

bank's auditor which reports regularly to the Bank of Italy. Should such report contain negative evaluations, the bank's auditor is obligated to bring the issue to the Bank of Italy's attention.

In general terms, specific control requirements on banks issuing covered bonds find their primary source from EU and national legislation. Additionally, in consideration of the peculiarities of a covered bond transaction, the Bank of Italy assigns to issuers the primary responsibility to evaluate the risk involved in the operations, to arrange a proper control mechanism and to ensure its functioning through the time. In particular, at least every six months and for each operation, issuers have to check: i) the quality of the cover pool; ii) compliance with the predetermined ratio between outstanding covered bonds and cover assets; iii) compliance with transfer limitations and asset integration requirements; iv) the performance of any derivative agreement entered into in order to hedge risks.

As far as information flows are concerned, it is provided that issuing/transferring banks shall acquire, from all the parties involved in the structuring of the covered bonds, information relating to:

- > The possessory titles of the transferred assets (in order to be able to track down each borrower whose loan has been transferred to the SPV);
- > The performance of the transferred assets (in order to monitor the "health" of the cover assets).

This information is necessary to issuing/transferring banks in order to perform both the abovementioned controls in terms of cover pool monitoring and the regulatory reporting (i.e. reporting of defaulted loans to the Bank of Italy's *Centrale dei Rischi*).

## **VI. TRANSPARENCY**

In 2012, the main Italian covered bond (Obbligazioni Bancarie Garantite (OBG)) issuers, coordinated by the Italian Banking Association, worked together to create a transparency template, consistent with the guidelines of the ECBC Label Initiative. The OBG transparency template is available online on the Covered Bond Label website (<https://www.coveredbondlabel.com>) and each participating OBG issuer has published a completed version on its own website.

## **VII. ASSET SEGREGATION AND IMPACT OF INSOLVENCY PROCEEDINGS ON COVERED BONDS AND DERIVATIVES**

As provided for by the secondary legislation enacted by the Italian Ministry of Economy, the guarantee granted by the SPV to the covered bondholders must be irrevocable, first-demand, unconditional and independent from the issuing bank's obligations on the covered bonds. It will be callable upon non-payment and bankruptcy of the issuing bank, and it will be limited to cover pool asset value to ensure bankruptcy remoteness of the SPV.

The SPV is a financial intermediary, registered in the "special list" provided for by article 106 of the Banking Law, and therefore subject to the Bank of Italy's supervision.

Covered bondholders will have the right, represented exclusively by the SPV, to file a claim with the issuing bank for full repayment of the covered bonds. In case of liquidation of the issuing bank, the SPV will be exclusively responsible to make payments to covered bondholders (as well as other counterparties) and will represent covered bondholders in proceedings against the issuing bank.

All the amounts obtained as a result of the liquidation procedure will become part of the cover pool and therefore used to satisfy the rights of covered bondholders. The redemption of the subordinated loan granted by the issuer of the covered bonds to the SPV is junior to any outstanding claims of covered bondholders, swap counterparties and transaction costs.

In case the proceeds obtained as a result of the liquidation procedure are insufficient to meet the obligations to bondholders in full, investors would still have an unsecured claim against the issuer for the shortfall.

## **VIII. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 (7) of the Capital Requirements Regulation (CRR), also considered that the Bank of Italy's OBG regulation establishes that the asset monitor must verify, among other things, that the information disclosed to investor as per Article 129 (7) of the CRR are complete, accurate and provided in a timely manner. Italian covered bonds fulfil both the criteria of Article 52(4) UCITS and Article 129(1) CRR.<sup>1</sup> They are also eligible in repo transactions with the Bank of Italy.

The "OBC" has been set to be compliant with European regulation.

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\* Intesa Sanpaolo acquired control of UBI Banca on August 5, 2020 and merged it by incorporation on April 12, 2021

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/31/Obbligazioni\\_Bancarie\\_Garantite\\_-\\_OBG](https://www.ecbc.eu/framework/31/Obbligazioni_Bancarie_Garantite_-_OBG)



**COVERED BOND LABEL :** Banca Carige S.p.A. (1 pool), BANCO BPM (1 pool), Crédit Agricole Italia S.p.A. (1 pool), Intesa Sanpaolo S.p.A. (3 pools), Banca Popolare dell'Alto Adige (SUDTIROLER VOLKSBANK) (1 pool), UniCredit S.p.A. (2 pools).

<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.



### **3.21 JAPAN**

By Atsushi Ouchiyama, SMBC and Elena Bortolotti, Barclays & Chairwoman of the ECBC RAA Working Group

#### **I. FRAMEWORK**

Sumitomo Mitsui Banking Corporation ("SMBC") issued the first ever Japanese covered bond back in November 2018 and Sumitomo Mitsui Trust Bank ("SMTB") followed in October 2020. As of today, Japan does not have a covered bond legal framework hence both SMBC and SMTB relied on Japanese and English contractual law provisions to structure their covered bond programmes following the footsteps of the UK, Canada and New Zealand, jurisdictions that issued contractual law covered bonds before a legal framework was introduced and legislative covered bonds were issued.

The Japanese banking industry had tried to establish a covered bond legislation in Japan in the early 2010's but there was no material progress at that time mainly due to two reasons: (1) demand for covered bonds from issuers was not strong because of ample liquidity in the Japanese Yen market, and (2) achieving dual recourse under the Japanese legal framework was difficult.

Since then Japanese banks have become active in foreign markets and have increased their foreign assets significantly. The expanding need for stable foreign currency funding coupled with having identified a viable structure that achieves dual recourse under the existing Japanese legal framework (see VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS) has allowed Japanese Banks to establish covered bonds programmes and successfully issue in the international markets.

On 28 September 2018, the major Japanese banks jointly submitted an initial request to their regulator to establish a covered bond legislation in Japan, the document was called "*Establishment of Japanese covered bond legislation in order to strengthen stability of foreign currency funding of Japanese banks*". The Japanese banks wanted to encourage the authorities to introduce a covered bond legislation. Currently, the Japanese Financial Services Authority ("FSA") is looking very closely at optimal covered bond structures and how best to implement a covered bond framework.

Given the lack of a Japanese covered bond legal framework the analysis of the following sections is based on SMBC's and SMTB's covered bond programmes.

#### **II. STRUCTURE OF THE ISSUER**

In the absence of a covered bond legal framework in Japan, SMBC and SMTB's covered bond programmes have been established in a way to replicate as closely as possible legislative covered bonds. The Issuer is the bank acting as the trustee on behalf of a money trust (the "Trust Account"), which is established specifically for the issuance of Covered Bonds and with the scope of holding the cover pool assets. The cover pool assets consist of senior tranches of self-originated residential mortgage backed securities (RMBS). The Bank acting in its proprietary capacity will be the TRS Counterparty, the Initial Servicer as well as the Initial FX Counterparty (Figure 1).

In case of a Bank Proprietary Account bankruptcy, pursuant to the Japanese Trust Act, the Trust Account is segregated from the Bank Proprietary Account's general assets or from any other assets of the Trust. The Trust Account bears some similarities to how cover pool assets are ring-fenced on balance sheet in traditional covered bonds, as its assets do not form part of the assets available to the Bank Proprietary Account's general creditors.

The cover pool assets are transferred from the Bank Proprietary Account to the Issuer, through the use of a total return swap ("TRS"). The Trust Account pays the cash flows generated by the cover pool assets to the Bank Proprietary Account, and the Bank Proprietary Account pays to the Trust Account the covered bonds interest and principal amounts, which are then passed to the covered bondholders.

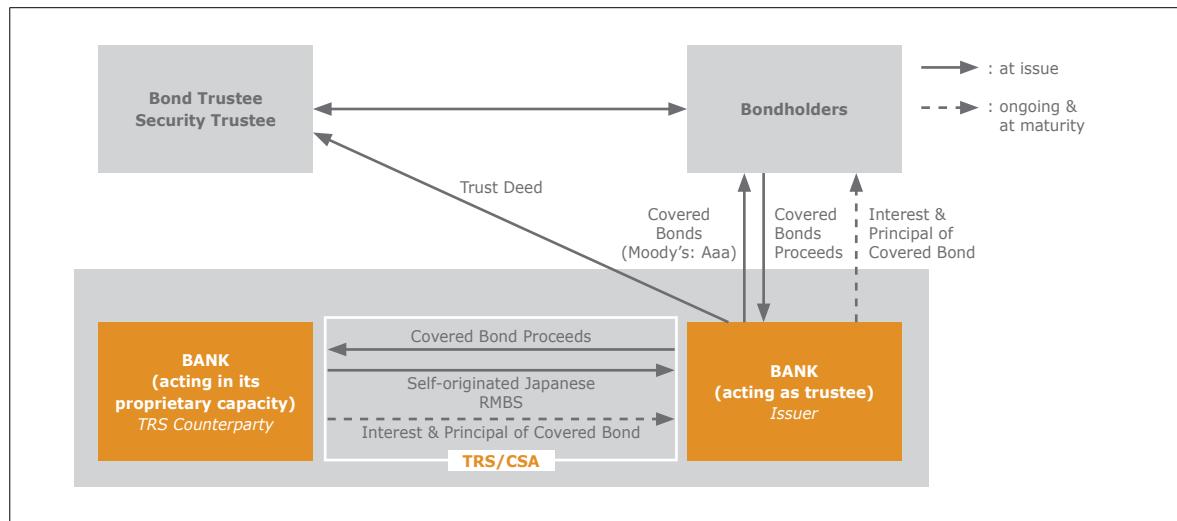
One of the key differences between the SMBC and SMTB programmes is how entrustment of the mortgages is perfected. Under the SMBC programme entrustment of the mortgage loans from the originator to the asset

trustee is perfected against third parties under the Perfection Law. While under SMTB's programme entrustment of the mortgage loans from the originator to the asset trustee is made by declaration of trust. Even though the legal construct is different the end result achieved is akin in both structures.

In case of a Bank Proprietary Account's bankruptcy, all claims and obligations between the Trust Account and the TRS Counterparty under the TRS are terminated using the close-out netting principle by applying the Japanese Netting Act. Close-out netting reduces the risk that the transfer of cover pool assets is recharacterised as a collateral transaction, and assures the segregation and bankruptcy remoteness of the assets held in the Trust Account.

Dual recourse is achieved by allowing covered bondholders to have recourse to the Bank Proprietary Account's assets available to general creditors, in addition to exclusive recourse to the assets held in the Trust Account.

FIGURE 1:



Sources: SMBC and SMTB Programme Documents

### III. COVER ASSETS

Eligible cover pool assets are senior self-originated RMBS tranches backed by residential loans originated by the Bank. SMBC's programme also allows for Japanese Government Bonds to be included as substitution assets but with a self-imposed cap of up to 10% of the cover pool. Cash can also be used as CSA collateral under both programmes.

The Banks were not able to transfer residential loans directly to the Trust Account, as they needed to rely on the close-out netting principle to apply the Netting Act under the TRS to guarantee segregation and bankruptcy remoteness of the Trust Account. One of the benefits of using RMBS as cover pool assets is the ability to conduct daily valuations of the cover pool. It is worth highlighting that if necessary, the selling agent has the option to sell the RMBS or to unwind the relevant RMBS to sell the underlying residential loans to find the highest bidder for such assets.

A TRS Default Event (defined as failure to pay under the TRS, credit support default including breach of the ACT, bankruptcy, merger without assumption) triggers the liquidation of the cover pool assets and the start of the realisation period. All series of covered bonds will be simultaneously redeemed on the Realisation Redemption Date or upon an Issuer Event of Default regardless of their scheduled maturities.

#### **IV. VALUATION AND LTV CRITERIA**

Pursuant to the Base Prospectuses, the RMBS are subject to haircuts depending on their rating: a further haircut is applied on the value attributed to the cover assets to the extent that the property value underlying the portfolio of RMBS does not meet an 80% LTV test (adjustment by the Adjusted LTV Limit Factor).

The Adjusted LTV Limit Factor is the factor which limits the LTV of the underlying assets in the portfolio of RMBS to a maximum of 80%. As a result, the value of RMBS to be taken into account for the Asset Coverage Test ("ACT") calculation is also limited accordingly.

#### **V. ASSET - LIABILITY MANAGEMENT**

SMBC and SMTB's covered bond programmes feature an ACT, an Interest & Expenses Reserve and appropriate FX mitigants.

Asset Coverage Test: The Issuer is required to hold issuer assets in respect of all covered bonds sufficient to meet the ACT which is calculated on a daily basis. In the event that the aggregate market related value of the issuer assets excluding cash in any reserve fund has fallen below the minimum OC percentage of 25%, the TRS counterparty shall, pursuant to the terms of the CSA, be required to post an amount of CSA collateral with a value at least equal to such shortfall amount. Calculations for the ACT are checked on a quarterly basis by the Asset Monitor. A breach of the ACT will trigger a TRS Default Event.

Interest & Expenses Reserve: The reserve fund which is established for the benefit of the covered bondholders will cover 9 months of interest on all covered bonds outstanding and senior expenses.

FX Mitigants: any FX risk is managed through the ACT and daily TRS collateral posting until a TRS Default Event. Following a TRS Default Event any FX risk on principal (and unpaid interest or accrued interest, if any) will be hedged through a Contingent FX Forward transaction with an eligible third-party up to the Realisation Period End Date.

#### **VI. TRANSPARENCY**

The Issuers have committed to publishing a quarterly investor report which is available on their websites. The investor reports include selected information on the underlying cover pool as well as confirming compliance with the ACT. Please find below some of cover pool characteristics which are disclosed in the investor reports:

- > Property type information
- > Number of mortgage loans comprising RMBS
- > Concentration risks (10 largest exposures)
- > Breakdown by domestic regions
- > Breakdown by interest rate
- > Breakdown by repayment type
- > Loan seasoning
- > Non-Performing Loans (NPLs)
- > Loan size information
- > Unindexed LTV information
- > Indexed LTV

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Under each programme, an independent third-party accounting firm has been selected to act as Asset Monitor. The Asset Monitor will check and report to the transaction parties, on a quarterly basis, on the compliance or non-compliance of the ACT and the maintenance of sufficient funds in the Reserve Fund.

SMBC and SMTB are regulated banking entities in Japan supervised by the Japanese FSA.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Following a Bank Proprietary Account bankruptcy, the assets held in the Trust Account are not subject to recourse by (1) the Bank Proprietary Account's general creditors and (2) creditors of other trusts of the Bank, and do not form part of the bankruptcy estate of the Bank Proprietary Account or other trusts under the Japanese Trust Act. The use of the Japanese Trust Act and the Netting Act (as described above) allows the structure to achieve cover pool asset segregation and bankruptcy remoteness of the cover pool.

Following a TRS Default Event, a TRS Default Event notice will be served and the Realisation Period will begin. All outstanding covered bonds regardless of their scheduled maturity will have to be repaid shortly after the Realisation Period End Date. During the Realisation Period, interest on the covered bonds will continue to be paid by drawing on the interest & expense reserve. Furthermore, the Selling Agent will take necessary steps to sell the cover pool; all proceeds from the sale will be used to repay the covered bond holders. Should the proceeds from the sale of the cover pool not be sufficient to repay the covered bond holders in full, the covered bond holders will have recourse to the Bank Proprietary Account general bankruptcy estate.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Japanese covered bonds are neither Article 52(4) UCITS compliant nor Art 129 CRR compliant since Japan is not a Member State of the European Union (EU). Furthermore, the covered bonds do not benefit from preferential risk-weighting for regulatory capital purpose under EU rules due to the lack of a Japanese covered bond legal framework.

## **X. ADDITIONAL INFORMATION**

### **Index Eligibility**

Japanese covered bonds are eligible as "covered bonds" for the purposes of the Bloomberg Barclays Covered Bond Index and Markit iBoxx Index.

## **3.22 LATVIA**

By Agneta Rumpa, Lūcija Strauta, Santa Rubīna, Sorainen, Richard Kemmish, consultant and Jacek Kubas, EBRD

### **I. FRAMEWORK**

A specific regulation for covered bond issuance in Latvia was created only on 27 May 2021 when Latvian Parliament adopted an entirely new law – the Law on Covered Bonds (the **Law**). The Law entered into force on 23 June 2021.

#### **A Historic Mortgage-Backed Covered Bonds Regulation**

Until the Law entering into force only one type of covered bonds – mortgage bonds – were regulated in Latvia by the Law on Mortgage Bonds (in Latvian – *Hipotekāro ķīlu zīmju likums*), enacted 10 September 1998. In addition, the Law on Mortgage Bonds and the Law on Credit Institutions (Articles 56<sup>1</sup>, 139<sup>1</sup> and 161) jointly provided the regulation for credit institution's insolvency and bankruptcy procedure. Yet, the Law on Mortgage Bonds covered only issuing bonds based on mortgage loans or loans secured by government guarantees. Therefore, the Law on Mortgage Bonds did not cover all the other assets used to back covered bonds that are provided in the Article 129 of the Capital Requirements Regulation No 575/2013 (**CRR**). Considering that this scope is narrower than the one provided for in the EU law and also considering the continuous development of the finance sector, the need for a law particularly on covered bonds was evident and thus the Law was passed. Simultaneously with the Law entering into force, the Law on Mortgage Bonds will no longer be in force.

#### **B The New Covered Bonds Regulation**

The Law was developed by the Latvian Ministry of Finance in cooperation with the European Bank for Reconstruction and Development (EBRD) and the European Commission in order to improve and modernize the national covered bond regulation. Additionally, the Law is a step closer to create a Pan Baltic (a common Latvian-Lithuanian-Estonian covered bond market) in order to ensure cross-border covered bond issuance. The Law transposes the Covered Bonds Directive No. 2019/2162 and is aligned with the amended CRR. The Law implements the so called "SPV model" where the cover assets of the covered bonds are segregated from the other assets of the credit institution issuing the bonds in a special purpose vehicle. The Law also aims to follow the best market practices of cover bonds regulation.

The Law prescribes the cover portfolio management agreement and the terms of its conclusion. The Law covers covered bonds structure; establishment, operation, liquidation and supervision of the covered bond company (the SPV); cover assets' acquisition and protection from third party claims; insolvency procedure aspects of the issuer, the credit institution transferring the claims included in the covered bond portfolio (the transferor) and the covered bond company; protection of investors and creditors of the covered bonds; public supervision of the operation of covered bond programmes; and operation of cross-border programmes.

Given that it is essential for all three Baltic States (Latvia, Lithuania and Estonia) to create a uniform covered bonds market, which requires ensuring the mutual compatibility of their local legislations, then the main elements of the legislation to the extent possible were aligned during the drafting process amongst all three jurisdictions. The Law is intended to provide for the possibility to combine bank assets from all three Baltic States in the cover pool in order to ensure more favourable conditions for the issued bonds in the international market.

### **II. STRUCTURE OF THE ISSUER**

Under the Law, to operate a covered bond programme and to issue covered bonds, any licensed credit institution registered in Latvia or a foreign (non-EU/EEA) credit institutions' branch in Latvia may apply for the license for covered bond programme operation. If the issuer is a foreign (non-EU/EEA) credit institution' branch, the decision on the establishment of a covered bond company must be made by the foreign (non-EU/EEA) credit institution as a legal person. The license is issued by the Financial and Capital Market Commission (**Commission**).

The Commission issues the license for the operation of covered bond programme to the credit institution if it and the proposed covered bond programme fulfils regulatory requirements. For example, the Law expressly lists such criteria as:

- (1) the issuer's obligations to investors and creditors of covered bonds must be secured by a guarantee of the covered bond company (the SPV);
- (2) appropriate accounting procedures and technical arrangements are used ensure the separation of cover assets;
- (3) the issuer has developed and implemented an appropriate, comprehensive, reasonable and effective set of policies, procedures and methodologies for the operation of the covered bond programme, taking into account the type, scope and complexity, including the continuity plan, for the covered bond programme;
- (4) the issuer has ensured that the implementation of the covered bond programme is performed by persons with sufficient qualifications;
- (5) the issuer has implemented and complies with the provisions which provide that the cover assets – tangible property – are adequately insured against losses;
- (6) the results of the stress testing performed by the issuer indicate the observance of the coverage requirements and the required levels of overcollateralisation.

The Law also provides for the requirements for establishing and operation of a covered bond company (the SPV). The issuer – a credit institution – may establish the covered bond company. The issuer and the covered bond company must be registered in the same EU member state. The issuer must be a shareholder of a the covered bond company. The covered bond company must be established in a form of a limited liability company (in Latvian – *sabiedrība ar ierobežotu atbildību*) or a stock company (in Latvian – *akciju sabiedrība*). The operation of a covered bond company is limited to ensuring its own operation and the fulfilment of the covered bond programme. The covered bond company must be liquidated if the covered bond programme is completed or the covered bond company no longer has cover assets and rights to new cover assets in accordance with the cover pool management agreement. The reorganization, transfer of undertaking or any other action in respect of the covered bond company, if this action would prevent or prejudice the ability of the covered bond company to fulfil its obligations under the provided surety is prohibited, unless it can be shown that such action would not harm the interests of the covered bonds' creditors and investors.

### **III. COVER ASSETS**

The following types of cover assets must be included in the cover pool:

- (1) financial assets that the issuer lends to the covered bonds company (SPV) for the acquisition of primary assets and substitution assets;
- (2) primary assets and substitution assets;
- (3) transaction values of the derivative contracts;
- (4) financial assets which have been acquired from the assets referred to in previous points 2 and 3.

At least 85% of the required cover assets value must consist of primary assets. The Law provides that primary assets consist only of the high quality assets from these particular classes:

- (1) public sector assets indicated in Article 129(1)(a) and (b) of the CRR;
- (2) residential mortgage assets as provided for in Article 129(1)(d) of the CRR;
- (3) commercial mortgage assets as provided for in Article 129(1)(f) of the CRR;
- (4) loans covered by liens on ships as provided for in Article 129(1)(g) of the CRR;

- (5) assets which are loans (credits) to capital companies controlled by a public person or, in cases where the law allows such capital companies to issue loans (credits) or provide guarantees themselves, loans (credits) guaranteed by such capital companies.

Whereas the substitution assets may consist of assets in the form of exposures as per Article 129(1)(c) and (1a)(a),(b),(c) and (d) of the CRR.

In order to ensure the compliance of the cover pool with the requirements specified by law, assets with payments that are overdue for more than 90 days cannot be included in the cover pool. The Law sets out the procedure for determining the value of cover assets related to an outstanding loan in the event of default, i.e. if the debtor delays the repayment of the loan.

#### **IV. VALUATION AND LTV CRITERIA**

The issuer must value the underlying assets in accordance with the Commission's requirements for credit risk management, including the applicable valuation standards, and the requirements for the persons entitled to value the assets. The valuation of cover assets must be adjusted in accordance with the indexation of the assets' market value.

For the primary assets that are residential mortgage assets, the LTV (the loan amount ratio to the coverage value) cannot exceed 70%. For the primary assets that are commercial mortgage assets and loans covered by liens on ships, the said ratio cannot exceed 60%. The ratio must be determined for the cover asset on the day when it is included in the cover pool for the first time.

The valuation must be performed at least once a calendar year, unless the terms of the covered bond programme provide for a more frequent valuation or it is required by the Commission, or the cover pool monitor. The methods to be used in the valuation of cover assets and the indexation procedure for the valuation of cover assets must be determined in the terms of the covered bond programme.

#### **V. ASSET – LIABILITY MANAGEMENT**

The Law stipulates the conditions for the use of derivative contracts in the cover pool and provides for the obligation to ensure liquidity reserves and stress testing. To ensure that the issuer is able to fulfil its obligations to investors, the issuer is required to replenish the cover pool with new cover assets in the event the stress test result shows that the applicable stress testing scenario does not comply with the required level of overcollateralisation.

The Law stipulates that the issuer performs stress testing at various levels of the financial turmoil at least quarterly to determine whether the underlying assets are sufficient to cover the total outstanding nominal value of the covered bonds. Stress testing must cover all risks that may significantly affect the covered bonds' risk profile.

#### **VI. TRANSPARENCY**

The Law obligates the issuer to disclose information to the investors and creditors, and to the Commission. Additionally, the Commission ensures availability of general information about issuers and cover bond programmes on its webpage.

Under the Law, the issuer must inform the investors on quarterly basis about the results of a covered bond programme, so that investors can assess its profile and risks and evaluate their own investment. The information for investors must be published on the issuer's webpage, and it must be made available for at least five years. The following information must be published: the value of the cover pool and outstanding covered bonds; the list of international securities identification numbers (ISIN) of all the covered bonds; the geographical division of cover assets; detailed information about market risk; levels of coverage and overcollateralisation; share of loans in case of delayed payments as per Article 178 of CRR, and the amount of liquidity reserves.

Additionally, the covered bond company (the SPV) must publish the annual report together with a sworn auditor's report on its website or indicate another appropriate medium where this information is made public.

The Commission in supervising the implementation of the covered bond programme is entitled to request the issuer, the covered bond company (the SPV) and the cover pool monitor to disclose information and other related documents for public.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The Law provides an obligation for the issuer to appoint a cover pool monitor that ensures constant monitoring of the cover pool. A cover pool monitor may be a sworn auditor or a sworn auditor company. Additionally, the cover pool monitor must be independent from the issuer and issuer's internal auditor. The person who was auditor of the issuer during last two years cannot take a position of cover pool monitor. The cover pool monitor's duties include, but are not limited to:

- (1) the examination of the compliance with the regulatory requirements of cover assets management agreement and the cover assets structure at least once a year;
- (2) the verification of the accuracy of the entries in the cover asset records; and
- (3) the verification on whether the covered bond company (the SPV) and the issuer complies with the legal requirements and duly perform their obligations regarding cover asset management agreement, stress testing, information provision to investors and cooperation with the Commission.

The cover pool monitor performs on-going supervision of the cover pool. The Law does not prescribe the regularity of inspections. The frequency of inspections must be determined for each particular situation. By way of example, the explanation to the Law indicates that the accuracy of the underlying asset records plays an important role in protecting the interests of investors and presumably it would not be appropriate to check this aspect only once a year. The Law allows the issuer, the cover pool monitor and the Commission to determine the frequency of monitoring of each of the aspects.

The Law obligates the cover pool monitor to provide the Commission with an annual report on the compliance of the covered bond programme with the requirements of the Law which have been described above. The cover pool monitor cooperates with the Commission. The cover pool monitor must immediately inform the Commission, as well as the covered bond company (the SPV) and the trustee (if such is appointed), of any violations identified.

The cover pool monitor is liable to investors for losses incurred by them due to gross negligence or malicious intent of the cover pool monitor. The liability period for the claims of damages is three years.

The Commission performs public supervisory functions of the covered bond programmes, including, the emission of covered bonds. The Commission has the duty and the powers to take necessary actions to prevent or remedy issues in the operation of the issuer, the transferor and the covered bonds company (the SPV) which may threaten the stability of the financial system or create significant losses for the economy. Including, the Commission may adopt the necessary sanctions in respect of the entities or natural persons responsible for non-compliance, which include fines to up to 10% of the annual revenue of the entity, revocation of the licence for cover bonds programme, temporal prohibition for the natural person liable for the non-compliance to fulfil his duties, etc

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The Law contains the principle that the claims of investors and creditors of covered bonds against the issuer and the covered bond company rank *pari pasu*, i.e. the claims of the investors do not have any preference over the claims of the creditors. However, in respect of other creditors, cover assets may not be subject to enforcement in respect of the issuer, the transferor of claims included in the covered bond portfolio, the covered bond

company (the SPV) or the manager of the cover pool. This rule does not restrict the possibility to enforce the claims against the debtor or the security provider of the assets underlying the covered bonds. Enforcement may be taken in respect of such cover assets that remain after the fulfilment of the claims of the investors and creditors of the covered bonds.

According to the Law, in case of the insolvency proceedings of the issuer, the amount of investors' and creditors' claims against the covered bond company is limited by the cover assets owned by the covered bond company. If the cover assets cannot cover the claims of all investors and creditors, these claims are satisfied according to principle of proportionality.

In case insolvency proceedings of an issuer have been declared, the Commission appoints a special administrator. The special administrator acts in the interests of all investors and creditors of the covered bonds, with the aim of achieving the proper performance of all covered bond claims from the coverage and the income generated by the covered bonds.

The special administrator upon appointment or at the request of the Commission must immediately evaluate the cover assets. The special administrator also approves and submits to the issuer's insolvency administrator a list of investors and creditors of the covered bonds. The issuer's insolvency proceedings cannot be completed until the covered bond company is sold to another issuer, or the covered bond claims are fully satisfied, or the sale of all covered assets is completed.

## **IX. COMPLIANCE WITH EUROPEAN LEGISLATION**

The Law is in compliance with the following European legislation that sets out requirements regarding covered bonds:

- (1) the Covered Bonds Directive – the Directive No 2019/2162 of the European Parliament and of the Council of 27 November 2019 on the issue of covered bonds and covered bond public supervision and amending Directives 2009/65/EC and 2014/59/EU;
- (2) the CRR<sup>1</sup> – the Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012.

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.



### **3.23 LITHUANIA**

By Tomas Kontautas and Dalia Augaité, law firm Sorainen

#### **I. FRAMEWORK**

The Lithuanian Ministry of Finance, with the technical assistance of the European Bank for Reconstruction and Development (EBRD) and with the support of the European Commission, has initiated a legal reform to establish new securitisation and improved covered bond regulation. As a result, the Introduction of a Covered Bond and Securitisation Legal and Regulatory Framework in Lithuania was published in 2017, followed by the drafting of the Law on Securitisation and Covered Bonds (the Draft Law) presented for public discussion on 18 July 2018.

In addition, in November 2017, the Ministries of Finance of Lithuania, Latvia, and Estonia signed a Memorandum of Understanding with a view to creating a pan-Baltic covered bond framework to enable the local banks to combine the assets from one, two or all three of the Baltic States under one issue (programme). It would be the first time in the covered bond market that laws of different jurisdictions would be aligned and a regional covered bond could be issued with underlying assets from three countries.

During 2020 governmental priorities were devoted to limit the impact of COVID-19 for Lithuanian economy, however, focus is back and the Draft Law is expected to be approved by the Parliament before summer.

Current drafting involves revising Draft Law provisions (described in more detail in Sections II-VII below) to make them compatible with the Directive (EU) 2019/2162 of the European Parliament and of the Council of 27 November 2019 on the issue of covered bonds and covered bond public supervision.

#### **II. STRUCTURE OF THE ISSUER**

Covered bonds can be issued by an authorised credit institution. However, the credit institution has to obtain an additional authorisation from the Bank of Lithuania which is the Lithuanian financial supervisory authority (the Lithuanian FSA). A prospective issuer applying for the authorisation has to prove that it will comply with the requirements imposed upon the issuers by this law. For example, a prospective issuer is required to have technology and systems, control mechanisms and a risk management system necessary for the administration of the cover pool. Moreover, it has to have a contingency plan.

Lithuania has chosen and adopted the SPV model for covered bonds. As a result, the assets included in the cover pool are transferred to an SPV under the *true sale* principle and the investors are granted the *dual recourse* right. Therefore, the credit institution, as the issuer, has a direct responsibility for redemption, but the cover pool is *ring-fenced* in the SPV and the issuer's creditors do not have any claim rights against it.

The day-to-day supervision of covered bond programmes shall be undertaken by a cover pool monitor. In specific, the cover pool monitor will inspect the compliance of the issuer with the requirements of the Draft Law, in particular whether the asset pool is, during the whole period of validity of the regulated covered bond, capable of covering claims attaching to the bond and sums required for the maintenance, administration and winding up of the asset pool (operational expenses) and for the transfer of the asset pool to a third-party servicer; whether the cover pool is of sufficient quality to give investors the confidence that in the event of the failure of the issuer there will be a low risk of default in the timely payment by the covered bond entity of claims attaching to the bond; whether the eligible property in the cover pool of a single asset class bond consists only of eligible property of the same class as the eligible property included in the asset pool of the regulated covered bond when registered and/or liquid assets and/or derivatives, etc.

#### **III. COVER POOL**

Cover assets shall mean an "asset pool" comprised of the following:

- (1) primary cover assets:

- a. public sector assets indicated in Article 129(1)(a) and (b) of the Capital Requirements Regulation (CRR), except for exposures that are eligible for credit quality category 2 as referred to in part (b) thereof;
  - b. residential mortgage assets – loans covered by non-commercial real estate as provided for in Article 129(1)(d)(i),(e) of the CRR;
  - c. commercial mortgage assets – loans covered by commercial real estate as provided for in Article 129(1)(f)(i) of the CRR;
  - d. loans covered by liens on ships as provided for in Article 129(1)(g) of the CRR;
  - e. other high-quality assets classified as eligible assets by the Lithuanian FSA in accordance with Article 129 of the CRR.
- (2) cash from the assets that are part of the asset pool;
- (3) eligible derivatives (for hedging purposes only);
- (4) liquid debt securities issued by an EEA country, regional government or local authority of an EEA country.

Nevertheless, only the performing credits could be included in the cover pool as primary cover assets. The statutory over-collateralisation level should be no less than 5% (five per cent) of the total principal amounts outstanding in relation to the bonds which the asset pool relates to.

It should be emphasised that if the issuer would like to label the cover bond issue as *mortgage covered bond*, the primary cover asset must consist of residential mortgage assets only, i.e. the issuer's claims that arise from credits granted to natural persons against a mortgage of residential property situated in the territory of a European Economic Area (hereinafter EAA) country.

#### **IV. VALUATION AND LTV CRITERIA**

The Draft Law provides that the LTV criteria for the property given as collateral for the credits linked to the real estate assets of the issuer must abide by the following maximum percentages: residential mortgages – 70% (seventy per cent) of the value of property valuation and commercial mortgages – 60% (sixty per cent) of the value of property valuation.

Market value indexation should be performed at least once a year, i.e. the loan-to-asset value ratio should be adjusted on an annual basis, unless higher indexation is provided in the covered bond programme or more frequent indexation is required by the cover pool monitor or the Lithuanian FSA.

The Draft Law entitles the Lithuanian FSA to elaborate on the criteria for assessing the eligibility of loans to be included in the cover pool and for the valuation of the underlying assets.

#### **V. ASSET AND LIABILITY MANAGEMENT**

The issuer has an obligation to perform a stress test on the covered bond portfolio and assess the impact of the main risk factors to which the asset portfolio is exposed in relation to the sufficiency requirement. The stress test should cover at least the interest rate, currency, credit, liquidity, set-off, commingling risks and other risks as indicated by the Lithuanian FSA. When carrying out the stress tests, the relevant risk-mitigating factors such as derivative contracts and other agreements entered into for the purpose of risk mitigation must be taken into account. Stress testing must be done at least once a quarter.

Such stress tests must be carried out by the issuer according to its own approved methodology based on consistent, documented and verifiable criteria, assumptions and procedures. The managers of the issuer are responsible for ensuring the performance of stress tests.

The Draft Law grants the Lithuanian FSA the right to establish more detailed requirements for the procedure and methodology of stress testing of covered bond portfolios.

Regarding the liquidity requirement, the cover pool must contain liquid assets in an amount equivalent to the issuer's related commitments secured by the cover pool and falling due in the next 180 days.

## **VI. TRANSPARENCY**

In addition to the disclosure obligation arising from other legislation, an issuer must disclose information about covered bond portfolios on a quarterly basis. The following information is required to be disclosed to the holders of regulated covered bonds:

- (1) information on the credit, market, currency, interest and liquidity risks associated with the cover assets and the covered bonds;
- (2) the total nominal value of the outstanding covered bonds;
- (3) the total value and composition of the cover assets and the geographical distribution of the cover assets;
- (4) the ratio between the total value of the cover assets and the total nominal value of the outstanding covered bonds, over-collateralisation, including voluntary over-collateralisation;
- (5) information about a liquidity buffer;
- (6) information on the structure of the covered bonds, including the maturity profile of both the cover assets and the outstanding covered bonds;
- (7) the methodology used to calculate LTVs for mortgage assets;
- (8) the percentage of the cover assets with payments past due by more than ninety days;
- (9) information on the counterparties and the SPV;
- (10) other relevant information for the investor, as established by the Lithuanian FSA.

The information stated in the first paragraph is to be provided in sufficient detail to enable the regulated covered bond-holders to carry out an adequate risk analysis.

The Lithuanian FSA may establish more specific disclosure requirements, including approval of their standardised formats.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The cover assets owned by the SPV must be supervised by a cover pool monitor. The issuer of the covered bond must appoint and dismiss the cover pool monitor. The cover pool monitor may not be a person who was an external auditor of the issuer within the previous three years.

The cover pool monitor must perform the following functions:

- (1) inspect the compliance of the asset pool with the requirements set out in the Draft Law (for example, the existence of a sufficient cover pool and its compliance with the requirements, as well as the accuracy of the records kept in relation to each asset in the asset pool);
- (2) inspect the compliance of the issuer with the requirements related to derivatives, stress testing, liquidity buffers and transparency;
- (3) prepare a report in accordance with the guidance issued by the Lithuanian FSA on the quality of the assets in the cover pool;
- (4) perform other instructions of the Lithuanian FSA.

The cover pool monitor must submit the report to the SPV, the issuer, and the Lithuanian FSA. In addition, the cover pool monitor must immediately inform the management of the SPV, the issuer, the Lithuanian FSA and,

as the case may be, the representative of the investors about any irregularities and inaccuracies discovered during the performance of the cover pool monitor's duties.

### **VIII. SEGREGATION OF THE COVER POOL AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

As pointed out above, Lithuania has chosen and adopted the SPV model for covered bonds. As a result, the assets included in the cover pool are transferred to an SPV under the *true sale* principle and the cover pool is *ring fenced* in the SPV, and therefore the issuer's creditors do not have any claim rights against the cover pool. Moreover, the Draft Law imposes the obligation to ensure that the SPV is independent from the issuer and is not consolidated with the issuer upon its insolvency.

In the event that the issuer is declared insolvent, the cover pool will be considered to be separated from the other assets of the issuer under the Draft Law and will not be part of the issuer's insolvency estate. Upon the issuer's insolvency, the Lithuanian FSA must appoint a special administrator to take over the management of the cover pool and covered bond programme. The special administrator must manage covered bond portfolios with the necessary diligence and in a manner ensuring that the liabilities arising from the covered bonds and from the derivative instruments are met in the best possible way.

Covered bond holders enjoy preferential treatment as the Draft Law stipulates the *ring fencing* of the cover assets in the case of the issuer's insolvency. Bond holders have the first access rights to the cash flows generated by the assets included in the cover pool, and it is forbidden to challenge the asset transfer to the cover pool.

### **IX. COMPLIANCE WITH EUROPEAN LEGISLATION**

The Draft Law is in compliance with the following European legislation that sets out requirements regarding covered bonds:

- (1) Directive 2009/65/EC of the European Parliament and of the Council of 13 July 2009 on the coordination of laws, regulations and administrative provisions relating to undertakings for collective investment in transferable securities (UCITS);
- (2) Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012;
- (3) Directive 2014/59/EU of the European Parliament and of the Council of 15 May 2014 establishing a framework for the recovery and resolution of credit institutions and investment firms and amending Council Directive 82/891/EEC, and Directives 2001/24/EC, 2002/47/EC, 2004/25/EC, 2005/56/EC, 2007/36/EC, 2011/35/EU, 2012/30/EU and 2013/36/EU, and Regulations (EU) No 1093/2010 and (EU) No 648/2012, of the European Parliament and of the Council Text with EEA relevance;
- (4) Directive (EU) 2019/2162 of the European Parliament and of the Council of 27 November 2019 on the issue of covered bonds and covered bond public supervision and amending Directives 2009/65/EC and 2014/59/EU.

### **3.24 LUXEMBOURG**

By Frederik Kunze, NORD/LB and Frank Will, HSBC & Chairman of the ECBC EU Legislation Working Group

#### **I. FRAMEWORK**

The issuance of Lettres de Gage is regulated by Articles 12-1 to 12-12 of the Financial Sector Act of 5 April 1993 (the Financial Sector Act). These articles were introduced by the Act of 21 November 1997 for banks issuing mortgage bonds and amended by the Act of 22 June 2000, by the Act of 24 October 2008, by the Act of 27 June 2013 and by the Act of 21 June 2018. The Lettres de Gage regulations are supplemented by the *Commission de Surveillance du Secteur Financier* (CSSF) Circular 01/42 which lays down the rules for the appraisal of real estate and Circulars 18/705-707. The CSSF is the supervisory authority in Luxembourg.

The amendments introduced in June 2013 included: (i) a broadening of the geographical scope to assets acquired globally but with certain rating requirements for countries outside the European Union (EU), the European Economic Area (EEA) and the Organisation for Economic Co-operation and Development (OECD); (ii) the introduction of Lettres de Gage Mutuelles which are backed by a system of institutional guarantee; (ii) change of the rating requirements of eligible securitisations which now refer to the list of rating agencies established by the European Securities and Markets Authority (ESMA) rather than S&P, Moody's and Fitch; (iii) an explicit definition of public enterprise; (v) a clarification that the cover assets have to be the property of the bank and (vi) a legal obligation for the issuers to publish information on the cover pools, the Lettres de Gage and the issuers.

The bankruptcy regulations have also been completely revised. If the court declares open one of the procedures provided for in the law on the financial sector, i.e. suspension of payments or compulsory liquidation, this decision entails the separation of the bank into the cover pools and additional activities. The cover pools with their corresponding bonds and their corresponding reserve with the central bank continue as proprietary compartments of a mortgage bank with limited activity. This bank still holds a banking licence. The court can also open a procedure of suspension of payments or compulsory liquidation for a cover pool, but this does not affect the other cover pools.

The CSSF is no longer administrator of cover pools in the case of bankruptcy of the Lettres de Gage bank but one or several administrators nominated by the court.

In June 2018, Luxembourg amended its covered bond law, introducing Lettres de Gage Énergies Renouvelables as a fifth covered bond type in Luxembourg. Under the new law it is possible to use projects generating renewable energy as collateral for cover pools. To our understanding the Lettre de Gage Énergies Renouvelables is the first covered bond framework that makes use of these type of assets as collateral for covered bonds. Furthermore, a 180-liquidity buffer was introduced to minimize the liquidity risk that could arise in a covered bond programme – using highly liquid assets that are available at any time during a specified period of time.

In December 2018, the Commission de Surveillance du Secteur Financier (CSSF) published 3 Circulars supplementing the Financial Sector Act. Circular 18/705 lays down the rules for the appraisal of renewable energy assets, Circular 18/706 lays down the transparency requirements based on Article 12-6(2) and Circular 18/707 defines the minimum requirements for the maintenance and control of the cover register and the liquidity requirements for the cover pool.

#### **II. STRUCTURE OF THE ISSUER**

The Lettres de Gage issuers have to be credit institutions with a specialist bank license. Their business activities are restricted. In the past, the bank's principal activities were limited to mortgage lending, and public sector financing which were primarily funded by issuing Lettres de Gage Hypothécaires and Lettres de Gage Publiques. Lettres de Gage Mobilières were introduced in October 2008 and are backed by loans guaranteed by movable

assets. Since 2013, the Luxembourg issuers are also allowed to issue Lettres de Gage backed by institutional guarantees (Lettres de Gage Mutuelles). These bonds are collateralised by loans to credit institutions in the EU, the EEA and the OECD or loans that are guaranteed by them as cover pool collateral, assuming that these credit institutions belong to a system of institutional guarantee. This system has to be recognised by a supervisory authority and guarantee to support its members in the case of economic difficulties. The latest addition are the Lettres de Gage Énergies Renouvelables focusing on renewable energy. Since June 2018, 'renewable energy' assets also qualify as cover pool collateral.

The issuers may only engage in other banking and financial activities if these activities are accessory and auxiliary to their main business.

The issuer holds the cover assets on its balance sheet in separate registers. Each class of Lettres de Gage has its own register: one each for assets which are allocated to Lettres de Gage Hypothécaires, Lettres de Gage Publiques, Lettres de Gage Mutuelles, Lettres de Gage Énergies Renouvelables as well as potentially several more for the various forms of Lettres de Gage Mobilières. The cover assets remain on the balance sheet of the issuer. They are not transferred to another legal entity (special purpose vehicle) like in a securitisation. All obligations arising from Lettres de Gage are direct, unconditional obligations of the issuer. In the case of issuer insolvency, the cover pools are segregated by law from the general insolvency estate and are reserved for the claims of the Lettres de Gage holders. There is no direct legal link between a single asset in the cover pool and an outstanding Lettre de Gage. Interest and principal payments of the various types of Lettres de Gage (including any derivatives benefitting from the preferential treatment) are backed by the assets in the respective cover pools.

Lettres de Gage issuers employ their own staff. The issuers have to be banks and according to the Financial Sector Act they need to have sound administrative and accounting procedures, control and safeguard arrangements for electronic data processing and adequate internal control mechanisms, which restrict the extent of outsourcing legally possible. In addition, the way of permitted outsourcing is described in detail in different CSSF Circulars.

### **III. COVER ASSETS**

The eligible cover pool assets are defined in Article 12-1 of the Financial Sector Act of 5 April 1993. Since the amendments of the covered bond legislation in June 2018, there are five asset classes: (i) mortgage assets, (ii) public sector exposures, (iii) movable assets, i.e. mortgage loans on ships, aircrafts, trains or other classes of movable assets, (iv) assets issued by credit institutions that are backed by a system of institutional guarantee and (v) lending for renewable energy asset/projects. The cover assets including substitution assets have to be principally established in the EU, the EEA or the OECD. However, the cover pools can contain up to 50% assets from outside the EU, the EEA and the OECD, if a rating agency registered on the ESMA list has assigned sovereign ratings of credit quality step 1 to the respective countries, and up to 10%, if the sovereign ratings are credit quality step 2.

In each of the various cover pools the assets may be replaced by up to 20% of the nominal value of the outstanding Lettres de Gage by substitution assets, for example cash, assets with central banks or with credit institutions or bonds satisfying the conditions set out in Article 43 (4) of the law of 17 December 2010 concerning undertakings for collective investments.

It is also possible to hold the cover assets indirectly through a third-party bank.

The Lettres de Gage Mobilières are backed by movable assets, i.e. mortgage loans on ships, aircrafts, trains or other classes of movable assets. In order to be cover pool eligible, the movable assets and the charges on the property of those assets need to be registered in a public register.

Lettres de Gage Énergies Renouvelables are backed by lending to projects generating renewable energy. That includes all necessary equipment for the generation, storage, and transmission of such energy, including electricity storage facilities, transformers, and power lines, whether under construction or finalised. Renew-

able energy is defined by the law as "any energy produced from renewable non-fossil sources, namely wind energy, solar, aero thermal, geothermal, hydro-thermal, marine and hydroelectric, biomass, landfill gas, sewage treatment plant gas, biogas and energy produced from similar sources". To be cover pool eligible, production equipment must be used exclusively to produce renewable energy, while storage and transmission equipment needs to be used more than 50% in connection with renewable energy.

In addition, securitised assets are cover pool eligible if they comply with the eligibility criteria laid down for the various types of Lettres de Gage. The amount of securitised assets that are not cover pool eligible per se will be limited to 10% of the collateral pool. This can be achieved in two ways: one option would be that at least 90% of the assets of each securitisation (vehicle) are cover pool eligible. The other option would be that at least 50% of the assets of each securitisation (vehicle) are cover pool eligible. In that case, the percentage of securitisation assets shall not exceed 20% of the total collateral pool. The issuer can choose one of the two options for each type of Lettre de Gage but cannot combine the two options. Moreover, the securitisation tranches should have a rating of the first credit quality step by a rating agency that is registered on the list by ESMA. The law allows only true sale transactions and synthetic securitisations are explicitly excluded.

Any kind of obligation from public sector institutions including public-private partnerships (providing a controlling public sector stake or claims for payment against the public sector) are cover pool eligible.

There is no limitation on the volume and the types of derivatives used as long as they are employed as hedging instruments.

The cover pools are dynamic. Assets can be included, excluded and exchanged as long as the requirements of the law are not breached.

There is an explicit transparency requirement. The issuers have to publish information on the composition of the cover pool, the bonds and the issuers. The details are defined by the CSSF in Circular 18/706.

#### **IV. VALUATION AND LTV CRITERIA**

The property valuation methods are defined by a CSSF Circular 01/42 and are based on the mortgage lending value of the property. A special auditor, who may not simultaneously hold the position of company auditor, has the responsibility of determining whether the property valuation has been undertaken according to the valuation rules.

The LTV limit for residential property is 80% of the estimated realisation value. The LTV ratio is 60% for all other immovable and movable properties including commercial real estate loans. The actual loan, however, can exceed the 60% limit (or 80% limit in case of residential mortgages). In those cases, only the first 60% (80%, respectively) of the mortgage lending value is eligible for the cover pool.

The loan-to-value (LTV) ratio for 'renewable energy' loans is limited by law to 50%. The limit might, however, be increased to up to 80% if certain conditions (such as a regulated fixed remuneration regime or free of charge renewable energy sources) are met. Further details on the valuation of "renewable energy" are specified by CSSF Circular 18/705.

#### **V. ASSET – LIABILITY MANAGEMENT**

There is a minimum overcollateralisation level of 2% on a nominal basis as well as on a net present value basis. Mismatches in terms of currency or interest rate risk can be hedged and the respective hedge instruments have to be included in the collateral pool. The cover assets of the relevant cover pool must provide total interest revenue at least equal to the amount of interest of the covered bonds of the same category in circulation. The amendments of the Lettre de Gage law in June 2018 also included the introduction of a liquidity buffer of 180 days. The liquid buffer assets can consist of ECB eligible assets as well as assets qualifying as Level 1 or Level 2A assets under the European LCR rules (excluding own-use covered bonds). In addition, there are the requirements imposed by the rating agencies.

The special auditor has to ensure that there is always sufficient collateral in the pool. This has to be certified by the special auditor when Lettres de Gage are issued. Cover assets may only be removed from the cover pool when the prior written consent of the special auditor has been received and provided that the remaining cover assets are sufficient to guarantee the legally protected cover.

The calculation of the nominal value and of the net present value of the collateral pool as well of the outstanding Lettres de Gage volume must be reported to the supervisory authority on a monthly basis.

## **VI. TRANSPARENCY**

There is an explicit transparency requirement laid down in Article 12-6(2) and supplemented by CSSF Circular 18/706. The issuers have to publish information on the composition of the cover pool, the Lettres de Gage and the issuer. This is in line with the ECBC Covered Bond Label Initiative.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The supervisory authority of covered bond issuers is the CSSF, as already mentioned above. The CSSF has a specialised department which is responsible for supervising the Lettres de Gage issuers. It is entitled to demand relevant reports and intercede if liquidity problems have been identified at a bank.

The CSSF is also responsible for the approval of the various types of covered bonds secured by movable assets. Definitions, the details on which types of movable assets qualify and other practical issues will be clarified in a separate CSSF Circular.

For the independent control of the cover pool a special auditor which is recommended by the Lettres de Gage issuer has to be approved by the supervisory authority. Only auditing firms which satisfy the conditions set forth in the law of 2009 regarding *réviseurs d'entreprises* (independent auditors) can be appointed as special auditors. The issuer communicates the names of the partners of these auditing firms who will fulfil the function to CSSF. The special auditor must have a suitable qualification and must be able to call upon the experience and technical expertise of a recognised international auditing firm.

The special auditor is continuously responsible for monitoring the collateral pool and the outstanding Lettres de Gage. The auditor must ensure that there are sufficient assets in the collateral pool to service the obligations resulting from the outstanding Lettres de Gage up to the final maturity of the last outstanding bond. The auditor is obliged to inform the supervisory authority immediately, should any of the prudential limits be violated. The Lettres de Gage issuer is also obliged to immediately inform the supervisory authority of the violation of any limits.

Rating agencies do not play any mandatory role in the monitoring process. The issuers comply with the rating agencies' requirements on a voluntary basis.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The cover registers for mortgage, public sector, moveable assets, assets backed by a system of institutional guarantee and renewable energy assets include all necessary data to identify the assets and the derivatives included. As soon as an asset or derivative product is registered in the official cover register it forms part of the collateral pool.

The cover register is managed by the issuer but regularly monitored by the special auditor. The special auditor is obliged to inform the CSSF of any irregularities and provide an annual report.

### **Asset segregation**

In the case that a procedure of suspension of payments or compulsory liquidation is opened for a Lettres de Gage issuer, the assets and derivatives in the collateral pool are separated from the other assets and liabilities of the bank. The respective collateral pools remain unchanged and continue with their corresponding Lettres de Gage and their corresponding reserve at the Luxembourgish Central Bank as proprietary compartments of

a Lettres de Gage bank with limited activity. The cover pools do not become separate legal entities. The legal entity of the bank remains unchanged. The banking license continues for the bank with limited activity in order to achieve the purpose of administering the cover pool up to the final maturity of the last outstanding Lettre de Gage. The court nominates one or several administrators for the cover pools. This administrator is different from the general bankruptcy administrator. If a procedure of suspension of payments or compulsory liquidation is opened for one cover pool, the other pools are not affected by this decision and continue.

### **Impact of insolvency proceedings on Lettres de Gage and derivatives**

Lettres de Gage do not automatically become due when a procedure of suspension of payments or compulsory liquidation is opened for the issuing bank. Interest and principal are paid as per their original due dates. The same applies to derivatives registered in the cover register which are part of the cover pool. The net present value of the derivatives after netting ranks pari passu with the claims of the Lettres de Gage holders.

### **Preferential treatment of covered bond holders**

Lettres de Gage holders benefit from a preferential treatment in case of an issuer insolvency. The registration of the cover assets in the cover register provides the Lettres de Gage holders with a preferential right, above all other rights, preferences and priorities of any nature whatsoever, including those of the Treasury. But the salary of the administrator and the other fees that are necessary for continuing the bank with limited activity rank first before the claims of the Lettres de Gage holders and the derivative counterparties, which rank pari passu. The general bankruptcy administrator has no direct access to the assets in the collateral pool.

### **Access to liquidity in case of insolvency**

The administrator nominated by the court administers the cash flows resulting from the cover assets and according to the Article 12-10 (5). The administrator can issue Lettres de Gage for the account of the Lettres de Gage bank with limited activity. He/she can approach the Luxembourgish Central Bank for liquidity, where the conditions to be fulfilled as a counterparty for transactions within the framework of monetary politics depend on the Eurosystem.

The administrator can transfer the administration of the cover assets and the Lettres de Gage to another bank.

There is no explicit provision in the law regarding any voluntary overcollateralisation. But the overcollateralisation in a cover pool serves to pay for the expenses for the continuation of the bank with limited activity as well as absorb losses.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The Luxembourg covered bond legislation fulfils the criteria of Article 52 (4) of the UCITS Directive (Directive 2009/65/EC of the European Parliament and of the Council of 13 July 2009 on the coordination of laws, regulations and administrative provisions relating to undertakings for collective investment in transferable securities (UCITS)). In its current format, the Lettres de Gage legislation does not fulfil the requirements set out in Article 129 of Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012, the Capital Requirements Regulation (CRR), together with Directive 2013/36/EU of the European Parliament and of the Council of 26 June 2013 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms, amending Directive 2002/87/EC and repealing Directives 2006/48/EC and 2006/49/EC, the Capital Requirements Directive (CRD), implementing the Basel III rules into European law.<sup>1</sup> The last two amendments of the Luxembourg covered bond legislation did not make the Lettres de Gage legislation CRR-compliant. However, it should be possible for issuers to make their outstanding Lettres de Gage "CRR compliant" by limiting their cover pool exposure.

<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the CRR:  
<https://hypo.org/ecbc/covered-bonds/>.

Lettres de Gage are principally eligible for repo transactions with the European Central Bank (ECB). However, on 28 November 2012, the ECB announced amendments of its eligibility criteria for its repo transactions. The changes entered into force on 3 January 2013. Covered bonds with external, non-intra group securitisations in the cover pool are no longer eligible as collateral for repo transactions as of 31 March 2013. This means that following the end of the grandfathering period in 2014, new and outstanding covered bonds with external RMBS or other ABS (both group-internal or external) in the cover pool are no longer repo eligible.

**Issuers:** Commerzbank Finance & Covered Bond, NORD/LB Luxembourg Covered Bond Bank.

**ECBC Covered Bond Comparative Database:**

[https://www.ecbc.eu/framework/85/Lettres\\_de\\_Gage\\_hypoth%C3%A9caires](https://www.ecbc.eu/framework/85/Lettres_de_Gage_hypoth%C3%A9caires)  
[https://www.ecbc.eu/framework/86/Lettres\\_de\\_Gage\\_mobili%C3%A8res](https://www.ecbc.eu/framework/86/Lettres_de_Gage_mobili%C3%A8res)  
[https://www.ecbc.eu/framework/105/Lettres\\_de\\_Gage\\_mutuelles](https://www.ecbc.eu/framework/105/Lettres_de_Gage_mutuelles)  
[https://www.ecbc.eu/framework/84/Lettres\\_de\\_Gage\\_publiques](https://www.ecbc.eu/framework/84/Lettres_de_Gage_publiques)

# THE NETHERLANDS

## 3.25 THE NETHERLANDS

By Joost Beaumont, Chairman of the ECBC Statistics & Data Working Group, ABN AMRO Bank,  
Cas Bonsema, Rabobank and Maureen Schuller, ING Bank N.V.

### I. FRAMEWORK

The Dutch regulatory framework for the issuance of covered bonds initially came into force on 1 July 2008. In order to strengthen the supervisory regime with respect to covered bonds, the Financial Supervision Act was amended in 2014, raising the legal framework for covered bonds to the level of law. The issuance of Dutch covered bonds is regulated since via:

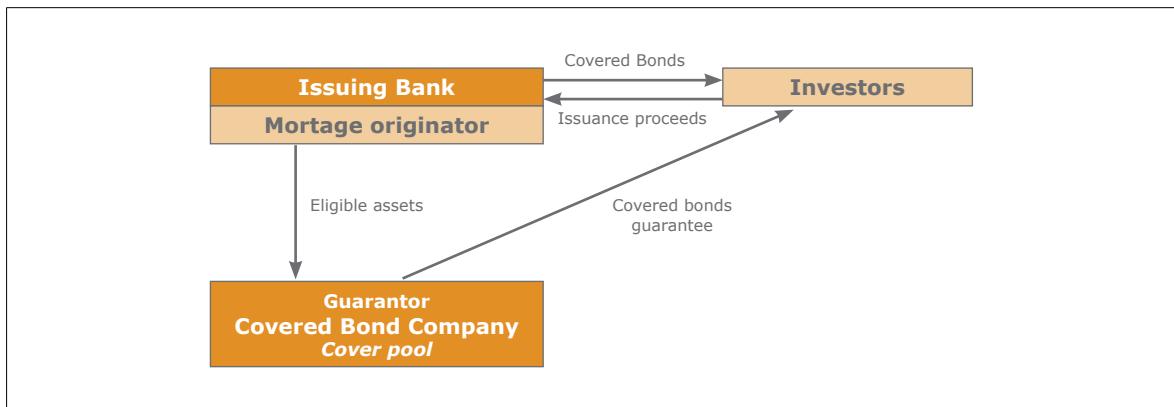
- > The Amendment Act Financial Markets of 19 November 2014, published on 5 December 2014;<sup>1</sup>
- > The Amendment Decree Financial Markets 2015 of 28 November 2014, published on 19 December 2014;<sup>2</sup>
- > The Ministerial Regulation amending the Regulation Implementing the Financial Supervision Act on Registered Covered Bonds of 9 December 2014, published on 17 December 2014.<sup>3</sup>

The new regulatory regime came into force on 1 January 2015 per Decree 534 of 11 December 2014. Dutch registered covered bond issuers have to comply with all requirements since 1 January 2016. The Dutch regulatory framework is well positioned in terms of amendments required to align the law with the new European Covered Bond Directive and Regulation, a process which is currently underway and is expected to be finished in the second half of 2021.

### II. STRUCTURE OF THE ISSUER

Dutch registered covered bonds can be issued by licensed banks that are located in the Netherlands. The issuing bank has to apply for registration with the Dutch Central Bank, which in turn decides to include a) the issuing entity and b) the category of covered bonds (to be) issued in a *public register*.

> FIGURE 1: STRUCTURAL OVERVIEW



To be registered, the bank needs to prove that, in the case of a default of the issuer, the covered bondholders have a priority claim over the eligible assets securing coupon and redemption payments due on the registered covered bonds. In practice this means that the issuer has to provide evidence that the cover assets are secured

1 Wijzigingswet financiële markten 2015, nr 472.

2 Wijzigingsbesluit financiële markten 2015, nr 524.

3 Wijziging van de Uitvoeringsregeling Wft ter zake geregistreerde gedekte obligaties, FM 2014/1900 M.

in favour of the covered bondholders via the transfer to a separate legal entity, the Covered Bond Company (CBC). The issuer has to deliver to the supervisor an independent legal opinion confirming this. The Covered Bond Company is established exclusively to isolate the cover assets from the other assets of the bank and to perform the necessary activities for the registered covered bonds.

The Covered Bond Company can also enter into agreements for the administration and management of the cover assets, as well as for liquidity and risk management purposes. These include derivative contracts, servicer agreements, asset monitor agreements and management agreements. The Covered Bond Company is not permitted to take actions resulting in payment obligations ranking equal or senior to the covered bondholders, unless these are related to the management, risk management, payment and administration of the registered covered bonds and the cover assets.

### **III. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

In order to secure the cover assets in favour of the covered bondholders, the assets are transferred to a separate legal entity, the Covered Bond Company, by means of a guarantee support agreement. Under this agreement, the mortgage originator passes on eligible receivables to the Covered Bond Company via an undisclosed or silent assignment. The legal ownership of the mortgage loans is transferred to the Covered Bond Company via a deed of sale and assignment, without notifying the borrowers. The Covered Bond Company guarantees in return to pay interest and principal on the covered bonds to the investors if the issuer defaults (covered bond guarantee). The obligations of the Covered Bond Company are unsubordinated and unguaranteed obligations.

If the issuer defaults on his obligations, a Security Trustee (not shown in the diagram on the previous page) may serve an issuer acceleration notice to the issuer and a notice to pay to the Covered Bond Company in line with the guarantee. As such the covered bonds do not accelerate if the issuer defaults, while the bondholders have full recourse to the assets of the Covered Bond Company. If the Covered Bond Company defaults on its payment obligations the covered bonds may accelerate (hard and soft bullet covered bonds) or may become pass-through conditional on pool sales being unsuccessful and a breach of the amortisation test (conditional pass-through covered bonds).

To ensure the bankruptcy remoteness of the Covered Bond Company, the issuing bank or other group entities are not allowed to hold shares in, or have control over, this legal entity.

### **IV. REGISTRATION REQUIREMENTS AND COVER ASSETS**

At the time of registration of a covered bond programme at the Dutch Central Bank, the issuing entity has to indicate the specific features of the covered bond programme. This includes a wide range of conditions, such as the maximum size of the programme, the rights and obligations of the Covered Bond Company, the rights and obligations of the holders of the covered bonds, the type of cover assets, as well as various risk management procedures. In any case, the issuing entity needs to provide information about the following features:

- > The redemption profile of the covered bonds, i.e. whether the covered bonds have a hard bullet, soft bullet, or (conditional) pass-through structure. The Dutch law allows issuance from a single programme of covered bonds with a hard bullet structure as well as those with a soft bullet structure with an extension period up to 24 months. In contrast, conditional pass-through covered bonds need to be issued from a separate programme.
- > The covered bond programmes of ABN AMRO Bank and ING Bank contain mainly soft-bullet issues. Some covered bonds that have been privately placed (including some denominated in foreign currencies) still have hard bullet structures. The covered bond programmes of ABN AMRO Bank and ING Bank contain mainly soft-bullet issues. Some covered bonds that have been privately placed (including some denominated in foreign currencies) still have hard bullet structures. Meanwhile, Rabobank and de Volksbank only have soft bullet covered bonds outstanding, while the covered bonds issued by Achmea Bank, Van

# THE NETHERLANDS

Lanschot Kempen Wealth Management, and NIBC Bank all have conditional pass-through structures. NN Bank and Aegon Bank both have conditional pass-through covered bonds outstanding as well as soft bullet bonds following the establishment of soft bullet programmes in 2020 and 2021. Achmea Bank completed the setup of a new soft bullet covered bond programme in June 2021 but has not yet issued out of this programme as of 8 July 2021.

- > The specific nature of the cover pool assets. Public loans, residential mortgages, commercial mortgages, and shipping loans, all qualify as cover assets. Only residential mortgages and commercial mortgages can be combined in a single programme. Currently, all Dutch covered bond programmes are backed by Dutch residential mortgages only.
- > The country exposure of the cover assets as well as the law by which they are regulated. Currently, all cover assets fall under Dutch law.

The Dutch Covered Bond Law further stipulates that each issuer will make sure the above-mentioned features will be satisfied during the entire lifetime of the covered bond transaction, so that all covered bonds issued from the same programme have the same features. This is both to protect investors as well as to enhance transparency.

## **Primary cover assets**

The cover assets should meet the CRR Article 129 requirements, implying that the followings assets are eligible:

- > Exposures to or guaranteed by central governments, central banks, public sector entities, regional governments, local authorities, multilateral development banks, international organisations as referred to in article 129 CRR, paragraph 1(a) and (b);
- > Residential mortgages up to a 80% LTV ratio;
- > Commercial mortgages up to a 60% LTV ratio;
- > Ship loans up to a 60% LTV ratio;
- > Other assets that can be made eligible under a Ministerial Regulation.

In the Netherlands, only one type of primary cover assets can be used as collateral for a specific covered bond programme, except for residential mortgages and commercial mortgages. Residential and commercial mortgages can be used as collateral in a single programme, but only in a predefined mix (that is not allowed to change during the life of the transaction). Securitisation notes are not eligible as collateral. To avoid confusion, Dutch mortgage loans carrying a guarantee from the government-sponsored Nationale Hypotheek Garantie (NHG) scheme, are treated as normal residential mortgages in all current Dutch covered bond programmes, subject to an 80% LTV cut-off for asset coverage requirement purposes.

## **Substitute cover assets**

The Dutch Covered Bond Law also allows for substitution assets to be included as cover assets. However, the inclusion of these type of assets is restricted to a maximum of 20% of the outstanding covered bonds. Eligible as substitution assets are public sector exposures and exposures to institutions as referred to in the CRR Article 129 (1a, b, c). Furthermore, exposures that are explicitly permitted by the Dutch Central Bank as referred to in CRR Article 129 (paragraph 1, third sub-paragraph) will also be allowed.

## **Country exposure of cover asset**

The law notes that the debtor of the cover asset as well as the collateral related to the cover assets are located in the EU, the European Economic Area, or, as assessed by the European Commission, in a country with prudential supervisory as well as regulatory requirements that are at least equivalent to those in the EU. Currently, cover assets backing Dutch covered bond programmes exclusively consist of Dutch residential mortgages.

## **Assets that are not allowed**

Certain types of assets are not allowed as cover assets, such as impaired loans referred to in CRR Article 178, assets to which a specific legal claim is attached that supersedes the ownership entitlement of the owner of the assets, or exposures of owners of the cover assets to the issuing bank or entities of the same group (such as deposits).

## **V. VALUATION AND LTV CRITERIA**

Loans backed by immovable property, such as residential and commercial mortgages, should meet the (valuation) requirements set out in CRR Article 208 and 229 (1), which includes, among others, legal enforceability as well as sound underwriting criteria. This CRR articles also state that the value of the property should be valued by an independent valuation agent on an annual basis for commercial properties, and every three years for residential properties. The Dutch Covered Bond Law is a bit more strict and prescribes that the valuation has to be updated every year. The supervisor can even request a more frequent valuation if it sees a need to do so, for example during times of sharp house price declines.

The value of Dutch property is based on the market value. Most covered bond issuers take a prudent approach when adjusting the value of the properties that are included in the cover pools. For example: all issuers take fully into account any house price decreases, while most issuers adjust for house price increases only partially. Indexation takes place on a monthly basis by means of the house price average in the Netherlands according to the Kadaster house price index or other recognised methods.

In order to comply with the CRR requirements, residential mortgages with an LTV higher than 80% will only be recognised up to an 80% LTV (60% LTV for commercial mortgages). In a situation where mortgages with an LTV of higher than 80% are included in the cover pool, this mortgage loan will only count for a maximum of 80% in the asset cover test. The difference between the actual (higher) LTV and the 80% maximum will serve as an extra credit enhancement.

No Loan-to-Income (LTI) thresholds are applicable in the Dutch covered bond regulation or programmes, but since 2013, all new Dutch mortgages have been subject to strict statutory LTI maximums at origination.

## **VI. ASSET – LIABILITY MANAGEMENT**

### **Asset coverage requirements**

The Dutch Covered Bond Law provides for two distinct asset coverage requirements:

- > The total value of the cover assets (using the actual outstanding loan amount) always has to be equal to at least 105% of the nominal value of the outstanding registered covered bonds.
- > The total value of the cover assets (using the CRR LTV cut-off percentages) always has to be equal to at least 100% of the nominal value of the outstanding registered covered bonds.

For the purpose of the calculation of these overcollateralisation tests, the primary cover assets are recognised at their nominal value and substitute cover assets at their market value. Banks typically commit contractually to higher overcollateralisation levels under the asset cover test for, amongst others, rating agency purposes.

### **Liquidity coverage requirements**

Issuers, furthermore, need to ensure that the Covered Bond Company always maintains sufficient liquid assets or generates sufficient liquidity via the cover assets to fulfil the *coupon and redemption obligations* on the covered bonds over a period of six months, including other obligations ranking senior to the covered bondholders (legal liquidity coverage requirements). The liquidity buffer requirement with respect to *redemption payments* is not applicable for covered bonds with maturity extension periods of more than six months (soft-bullet or conditional pass-through). Cash flows from derivatives contracts related to the covered bond liabilities are also taken into consideration.

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The legal liquidity coverage requirements differ from the contractual liquidity coverage requirements. An example of this is the contractual *pre-maturity* test applied by Dutch issuers with regard to the redemptions of hard bullet covered bonds. This pre-maturity test is subject to issuer rating triggers and a test period of twelve months.

Dutch issuers furthermore contractually commit to cover at least three months of interest expenses on the covered bonds by means of a *reserve fund or a reserve accounts*. In practice the legal liquidity coverage requirements overlap with the contractual liquidity coverage requirements.

### **Risk management procedures**

The issuing bank has to employ reliable and effective risk management procedures to assure that sufficient eligible primary cover assets and substitute assets are available at all times during the life of the registered covered bond to meet, amongst other things, all overcollateralisation and liquidity requirements.

The Covered Bond Company can only enter into derivative contracts (such as currency swaps, interest rate swaps and total return swaps) or other risk mitigating contracts, if these support the risk management of the programme in favour of the registered covered bondholders. The counterparty to these agreements should not have the right to terminate the contract or to suspend its obligations under the contract if the creditworthiness of the issuing bank deteriorates. If the counterparty itself no longer meets the minimum creditworthiness requirements, it should provide for sufficient collateral, a suitable third-party guarantee, or replace itself.

As a result of changes in especially the regulatory landscape the use of derivative contracts to mitigate (interest rate) risks associated with the registered covered bonds has diminished in importance in recent years. Instead, several issuers decided to introduce interest reserve requirements, minimum mortgage interest rate requirements and/or to pledge additional collateral.

### **Asset encumbrance restrictions**

The Dutch Covered Bond Legislation provides for discretionary *soft asset encumbrance restrictions*. The Dutch Central Bank makes sure, on a case-by-case basis, that a healthy relationship is maintained between the nominal value of the registered covered bonds outstanding and the consolidated balance sheet total of the issuing bank (the so-called healthy ratio). The going-concern interests of the bank, in terms of stability and funding source efficiency, as well as the post-bankruptcy interests, including those of other unsecured creditors, are assessed. The issuance ceiling for covered bonds (the maximum amount of covered bonds than an issuer is allowed to have outstanding) is determined upon registration and is reviewed annually. The Dutch Central Bank can prohibit a bank from issuing any further registered covered bonds if it is of the opinion that the *healthy ratio* requirements are breached. The Central Bank can also decide to reject a request for registration on these grounds.

### **Stress testing**

The issuer has to prepare stress tests on a regular basis for the Dutch Central Bank to show that there are sufficient primary cover assets available (i.e. unencumbered) on its balance sheet for replenishment purposes. Credit risk, interest rate risk, currency risk and liquidity risk all have to be considered, including the derivative contracts mitigating these risks. Other risks deemed relevant by the Dutch Central Bank, such as housing price shocks, must be considered as well. The stress tests related to these risks can also be performed on a combined basis.

## **VII. TRANSPARENCY**

Before registration of its programme the covered bond issuer already needs to report a lot of detailed information to the supervisor on the specific features of the covered bond programme (see paragraph III). After registration, the Dutch Covered Bond Law stipulates that the issuing entity shows at least every quarter to the Dutch Central Bank that the programme still fulfils all requirements, while it shows on at least an annual basis that it has enough unencumbered primary cover assets available for replenishment purposes (under different stress scenarios). Issuers also provide the Dutch Central Bank with an annual report of the Covered Bond

Company within six months after closing of the reporting year. Finally, issuers need to notify the Dutch Central Bank in advance of any (upcoming) significant changes to the covered bond programme.

The Dutch law requires issuers to provide investors with the following information at least on a quarterly basis:

- > Information on the credit risk, market risk, exchange rate risk, interest rate risk, and liquidity risk related to the cover assets and the covered bonds;
- > The nominal value of the covered bonds outstanding;
- > The total value and composition of the cover pool, including the geographical distribution;
- > The ratio between the total value of the cover assets and the total nominal value of the covered bonds;
- > The ratio between the total value of the cover assets when applying the CRR requirements and the nominal value of the covered bonds;
- > The ratio between the total value of liquid assets and the upcoming interest payments (and redemptions if hard bullet structure) and other mandatory payments within the next six months;
- > The maturity structure of the cover assets as well as the covered bonds;
- > The percentage of cover assets in arrears (i.e. more than 90 days overdue); and
- > Information about the counterparties of the Covered Bond Company.

All Dutch registered covered bond issuers currently publish investor reports on a monthly basis. These reports can be found on their websites, while there is also a link on the website of the Dutch Association of Covered Bond Issuers ([www.dacb.nl](http://www.dacb.nl)) to these reports and via the national information pages on the Covered Bond Label website. The Dutch issuers have also implemented the Harmonised Transparency Template (HTT).

## **VIII. COVER POOL MONITOR AND BANKING SUPERVISION**

The issuer has to appoint an asset monitor (which could be the issuing banks own external accountant) before its first issuance under a registered covered bond programme. At least once a year, the asset monitor has to check the asset coverage and liquidity coverage calculations. For as long as the issuing bank is capable of managing the cover assets, the asset monitor, randomly checks the files relating to the cover assets on an annual basis, including the valuation and administration of the assets, and reports its findings to the supervisor. These random checks can also be arranged separately with a different (not the issuing banks own) external accountant. The asset monitor agreement has to assure however that the asset monitor continues to perform its duties after an issuer event of default. To safeguard this, the Covered Bond Company will become a party to the asset monitor agreement. The agreement can also stipulate explicitly that the obligations of the asset monitor will remain unaffected by the situation of the issuing bank.

Dutch registered covered bond programmes are furthermore subject to special supervision of the Dutch Central Bank. The Dutch Covered Bond Legislation gives substance to the special supervision via a set of strict requirements during the registration phase and post registration.

- > Upon registration, the issuing bank has to provide the Dutch Central Bank with a written statement by the board of directors that all the regulatory requirements are met regarding the asset segregation, asset coverage, liquidity coverage and risk management procedures. The bank furthermore has to demonstrate that it fulfils all legal requirements ensuring that the payment obligations due on the registered covered bonds are adequately secured. The bank has to specify the conditions applicable to the covered bonds, such as the redemption profile, the type of primary cover assets, whether the assets are CRR eligible, and the geographical location of the assets. The bank, additionally, has to demonstrate that it is able to meet the reporting obligations towards the Dutch Central Bank and the covered bondholders.

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- > After registration, the issuer has to make sure that the registered covered bonds continue to meet the registration requirements. The Dutch Central Bank will confirm in the register whether a category of registered covered bonds meets the CRR Article 129 requirements. The CRR listing remains intact for as long as the covered bonds meet the requirements. A category of registered covered bonds cannot be deregistered, but the Dutch Central Bank can decide to *deregister the issuer*, if the issuer no longer complies with the regulatory requirements. The Dutch Central Bank can also impose a penalty or a fine if an issuer fails to meet its obligations. A deregistered issuer is not allowed to issue any new covered bonds.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Dutch registered covered bonds are UCITS 52(4) compliant, while they also meet all current requirements of the CRR Article 129<sup>4</sup>. So, they should be eligible for a 10% preferential risk weight treatment under the Standardized Approach. The bonds are also Solvency II and ECBC Label compliant. Furthermore, the currently outstanding Euro benchmark covered bonds fall within the Level 1 category of the LCR.

## **X. ADDITIONAL INFORMATION**

More information on Dutch covered bonds can be found on the website of the Dutch Association of Covered Bond Issuers ([www.dacb.nl](http://www.dacb.nl)), which was established in 2011 and has the following objectives:

- > To represent the interests of the Dutch issuers in discussions with legislative and regulatory authorities;
- > To provide investors with information about the Dutch covered bond market;
- > To participate on behalf of the Dutch issuers in international covered bond organisations like the ECBC;
- > To continuously improve the quality of the Dutch covered bond product offering.

**Issuers:** ABN AMRO Bank, Achmea Bank, Aegon Bank, Van Lanschot Kempen Wealth Management N.V., ING Bank N.V., NIBC Bank, NN Bank, Rabobank, de Volksbank.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/65/Dutch\\_registered\\_CBs\\_programmes](https://www.ecbc.eu/framework/65/Dutch_registered_CBs_programmes)



COVERED BOND  
LABEL

: ING Bank N.V. (3 pools), ABN AMRO Bank N.V. (2 pools), de Volksbank N.V. (1 pool), NIBC Bank N.V. (1 pool), Van Lanschot Kempen Wealth Management NV (2 pools), Aegon Bank N.V. (2 pools), Coöperatieve Rabobank U.A. (2 pools), Nationale-Nederlanden Bank N.V. (2 pools), Achmea Bank N.V. (2 pools).

<sup>4</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.



## **3.26 NEW ZEALAND**

By Frank Will, HSBC & Chairman of the EU Legislation Working Group

### **SUMMARY**

The first covered bond was issued out of New Zealand in June 2010. At that time, New Zealand did not have a legislative covered bond framework and the domestic issuers used the well-tested general law-based covered bond approach following in the footsteps of the UK, France, and Canada. Since then, the regulatory authorities in New Zealand have developed dedicated covered bond legislation to support further growth of this market segment. In May 2012, the Minister of Finance introduced the Reserve Bank of New Zealand (Covered Bonds) Amendment Bill (Amendment Bill) into Parliament. Following a lengthy consultation process with the House of Representatives, the law on covered bonds came into force in December 2013, by virtue of the Reserve Bank of New Zealand (Covered Bonds) Amendment Act 2013.

Since the amendment act has come into effect and following a 9-month transition period, banks are only allowed to issue covered bonds under registered programmes. During the transition period, all issuers registered their covered bond programmes that existed before the legislation came into effect with the Reserve Bank of New Zealand. Once the programmes were registered, the previous issued covered bonds also received the benefit of the new legislation.

### **I. FRAMEWORK**

No covered bond regulation was in place in June 2010 when New Zealand covered bonds were first issued and issuance of covered bonds was neither prohibited nor limited by any prudential requirements or other regulation.

In October 2010, the central bank released a consultation paper on proposals for a regulatory framework to provide additional certainty to investors, and to improve the disclosure requirements in order to support the development of the covered bond market in New Zealand.

In January 2011, the Reserve Bank of New Zealand (RBNZ) introduced a regulatory issuance limit for the issuance of covered bonds by New Zealand banks (which came into force in April 2011). The regulation limits the value of assets encumbered for the benefit of covered bondholders to 10% of total assets of the issuing bank. At that time the RBNZ said that this was an initial limit and that its appropriateness would be reviewed by the Central Bank, taking into account the developments within the covered bond market in New Zealand.

In December 2011, the RBNZ conducted another public consultation. The final paper was in essence aligned with the earlier consultation paper. Following approval by Cabinet in April 2012, the Reserve Bank released a Cabinet paper and Regulatory Impact Statement confirming policy positions relating to the matters discussed in the Reserve Bank's December 2011 consultation paper on covered bonds.

In May 2012, the first reading on the Amendment Bill took place. Following its first reading, the Bill was referred to the Finance and Expenditure Select Committee. In February 2013 the second reading took place. Following a third and final reading, the Amendment Bill was passed by the Parliament and received Royal Assent in December 2013. It came into force on 10 December 2013.

The New Zealand covered bond legislation gave existing covered bond issuers nine months to register their covered bond programme with the RBNZ. Each issuance under the programme is also proposed to be registered with the RBNZ. All NZ issuers have registered their old programmes which means that all outstanding NZ covered bonds receive now the benefit of the legislation.

## **II. STRUCTURE OF THE ISSUER**

As of August 2021, issuers from five New Zealand banking groups have issued covered bonds, being ANZ Bank New Zealand Limited (ANZ), ASB Bank Limited (ASB), Bank of New Zealand (BNZ), Westpac New Zealand Limited (Westpac) and Kiwibank Limited (Kiwibank). With the exemption of Kiwibank, all issuers are ultimately owned by Australian parent banks. However, the Australian parent companies ANZ, CBA, NAB and Westpac do not guarantee the covered bonds. Typically, NZD denominated bonds have been issued directly by the New Zealand banks, while non-NZD bonds have been issued through the London branches of their respective subsidiaries and are guaranteed by the New Zealand parent company. The RBNZ emphasised from the outset that it is supportive of the covered bond product. Banks can issue bonds backed by a dynamic pool of assets, and the covered bonds rank pari passu to each other. The covered bonds are irrevocably guaranteed by the covered bond guarantor (CB guarantor) under the covered bond guarantee. The CB guarantor will only make payments under the bonds when (a) an issuer event of default has occurred, and a notice to pay is served on the CB guarantor or, (b) a CB guarantor event of default has occurred and a covered bond guarantee acceleration notice is served on the CB guarantor and the issuer.

Under the covered bond law, issuers are required to register their programmes with the RBNZ.

## **III. COVER ASSETS**

The covered bond law does not restrict the type of cover assets. The Reserve Bank stated on its website that the assets eligible to be included in the cover pool do not need to be prescribed by legislation because banks specify asset eligibility in programme documentation. In the Reserve Bank's opinion, legislative restrictions on cover pool assets may unnecessarily restrict an issuer's ability to develop covered bond programmes.

The existing covered bond programmes are backed by a dynamic pool of residential mortgage loans originated in New Zealand. The common eligibility criteria for these mortgage loans across the programmes are listed below:

- > Denominated and repayable only in New Zealand Dollars (NZD);
- > Secured by first ranking residential mortgages in New Zealand;
- > Mortgage loans with a term not exceeding 30 years;
- > Outstanding principal balance of no more than NZD 1.5mn (Westpac)/NZD 2.0mn (ANZ, ASB, Kiwibank)/NZD 2.5mn (BNZ); and,
- > Not in arrears/have not been in default for more than 30 days.

Some of the issuers have additional features beyond these requirements. Moreover, issuers are also allowed to hold liquid substitution assets. These assets are subject to an overall limit of 10%-15% of the cover portfolio depending on the issuer (Westpac and BNZ 15%, ANZ, ASB and Kiwibank 10%), with the exception of cash that has no limit.

## **IV. VALUATION AND LTV CRITERIA**

In New Zealand, every property is typically valued during the underwriting process. All five existing covered bond programmes do not restrict the LTV limit for mortgage loans in the cover pool. However, in the case of ASB and Westpac, the Asset Coverage Test (ACT) caps the valuation of the property at 75%. In case of ANZ, BNZ and Kiwibank this cap is set at 80%. In effect, this means the maximum amount of a loan that can count in the ACT test is 75% or 80% of the property value respectively.

## **V. ASSET-LIABILITY MANAGEMENT**

**Issuance limit:** As mentioned above, there is a regulatory issuance threshold which limits the value of assets encumbered for the benefit of covered bond holders to 10% of the total assets of the issuing bank. The RBNZ highlights that this is an initial limit and its appropriateness will be reviewed taking into consideration the

development of the covered bond market. The RBNZ stated that the 10% limit is "similar to the limit set in Australia" of 8%. However, the limit is "specified differently" from Australia's. "The New Zealand limit applies at all times, whereas the Australian limit applies only at the time of issuance. In addition, if an Australian bank holds cover pool assets in excess of the limit, it must deduct the value of the excess amount from its capital in calculating its regulatory capital adequacy ratios: if a New Zealand bank breaches its cover pool limit, it is in breach of its conditions of registration."

**Currency and interest hedging:** The underlying mortgage loans are denominated in NZD. However, covered bonds can be issued in other currency denominations, which introduces currency risk for the issuer. Moreover, the interest payable for the covered bonds will not exactly match the interest received on the mortgage loans in the collateral pool. Under the existing covered bond programmes, the issuers are required to hedge the interest and currency risks.

**Soft vs hard bullet structures:** The existing issuers (ANZ, ASB, BNZ, Kiwibank and Westpac) can issue hard bullet covered bonds, or covered bonds with extendable maturity of one year ("soft bullet" bonds). Hard bullet covered bonds will be subject to a 12-month pre-maturity test giving the CB guarantor 12 months to raise liquidity by selling assets of the pool.

**Overcollateralisation (OC):** The issuers have committed to various OC levels under the prospectuses and to the rating agencies. The covered bond law only requires that the value of the cover pool assets is at least equal to the principal amount outstanding on the covered bonds.

## **VI. COVER POOL MONITOR AND BANKING SUPERVISION**

The law stipulates that registered covered bond issuers must appoint an independent asset monitor. The asset monitor must either be a licensed auditor or an auditing firm (or a person/firm that has been approved by the RBNZ). In this context independent means independent from both the issuer and any associated person of the issuer, whereby a person's appointment as auditor does not affect his, her, or its independence.

The existing issuers provide investor reports on a monthly or quarterly basis. In addition, monthly or quarterly reports are prepared for the rating agencies. The agencies re-calculate the required asset percentage used in the ACT on a regular basis and prior to each issuance under the respective covered bond programme. On an annual basis the asset monitor checks the arithmetic accuracy of the calculations performed by the calculation manager (usually the issuer), with respect to the asset coverage test or amortisation test (as applicable).

The law introduces the requirement for an asset register to be maintained. The asset monitor also carries out an annual check that the asset register has been updated accurately and in a timely manner.

If the issuer rating of the calculation manager is downgraded below a certain trigger level, the asset monitor will check the arithmetic accuracy of the calculations performed by the calculation manager on a monthly basis. Moreover, (1) if the asset monitor identifies any errors in the calculations performed by the calculation manager which result in a failure in the asset coverage test, or (2) if the adjusted aggregate mortgage loan amount or the amortisation test aggregate mortgage loan amount is misstated by the calculation manager by an amount exceeding 1%, or (3) if the asset register has not been maintained as required, then the asset monitor will be required to carry out the applicable check on a monthly basis until the asset monitor is satisfied that no further inaccuracies exist.

## **VII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The covered bonds are direct, unsecured, unsubordinated and unconditional obligations of the relevant issuer. In addition, the CB guarantor guarantees the payments of interest and principal of the covered bonds. The issuer provides a subordinated loan to the CB guarantor which allows the CB guarantor to acquire a mortgage loan portfolio. The portfolio includes mortgage loans and the related security sold by the seller in accordance with the terms of the mortgage sale agreement.

The mandatory registration required by the new covered bond law involves the recognition of a covered bond issued with the effect that the cover assets would be explicitly protected from the insolvency or statutory management of the issuer. The RBNZ must keep a public register of registered covered bond programmes and issuances under each programme. Moreover, the covered bond law requires that the cover pool assets are held by a Special Purpose Vehicle (SPV), which is a separate legal entity from the issuer.

Under the existing covered bond programmes, the sale of the loans and their underlying security by the seller to the CB Guarantor is in the form of equitable assignment of the seller's rights, title, interest and benefit in and to the loans, their related security and the other assets which are being sold. The equitable assignment requires neither a notice to the borrowers nor a registration in the land registry. As a result, the legal title to the mortgage loans remains with the seller until legal assignment is delivered to the CB guarantor and notice of perfection of legal title is given to the borrowers. The perfection of title of the mortgage security to the CB guarantor will be triggered by certain trigger events including the notice to pay on the CB guarantor, downgrade of the issuer to sub-investment grade or insolvency of the issuer. The equitable assignment is a well-known procedure in the UK and is usually used by the covered bond issuers in the UK.

### **VIII. RISK-WEIGHTING AND COMPLIANCE WITH EUROPEAN LEGISLATION**

The RBNZ accepts NZD denominated AAA rated covered bonds for its Domestic Markets Operations. For maturities of less than three years the haircut is 5% while covered bonds with a maturity of three years or longer are subject to a higher haircut of 8%. This includes covered bonds issued by New Zealand banks.

The covered bonds issued directly by financial institutions with registered offices in New Zealand are neither CRR nor UCITS compliant as both frameworks require the issuer to be based in the EU. The New Zealand covered bonds, therefore, do not benefit from the lower risk weighting for bank treasuries in the EU.

**Issuers:** ANZ Bank New Zealand, ASB Bank, BNZ, Kiwibank, Westpac Securities NZ.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/114/New\\_Zealand\\_Covered\\_Bonds](https://www.ecbc.eu/framework/114/New_Zealand_Covered_Bonds)

**3.27 NORWAY**

By Michael H. Cook, Finance Norway

**I. FRAMEWORK**

The Norwegian Covered Bond Legislation came into force on 1 June 2007. Since then, both the new Norwegian Act on Financial Institutions (hereafter "the Act") and the corresponding Regulation (hereafter "the Regulation") have been introduced. The Act, which became effective from 1 January 2016, has amended the covered bond framework so that covered bond issuers are treated the same as banks in the event of insolvency, i.e. cannot be declared bankrupt but will rather be placed under public administration. In addition, it enabled the Ministry of Finance (MoF) to set a legal minimum overcollateralisation requirement (a 2% requirement was introduced in March 2017). The Regulation concerning financial institutions came into force on 1 January 2017 but did not represent any fundamental changes to the regulatory framework concerning covered bonds (merely making it more user-friendly). The legislation provides investors very strong protection on their investments and is closely linked to corresponding EU directives and regulation.

Issuance of Norwegian covered bonds started with an issuance denominated in euro in the second half of 2007. The covered bonds market in Norway was barely untested before the global financial crisis hit the following year. Norwegian banks did not experience any substantial increase in losses during the crisis, but the liquidity shortage triggered by the turmoil in international financial markets also spread to Norwegian markets.

In order to provide liquidity to the market, the authorities offered to swap treasury bills for covered bonds from Norwegian issuers. During 2008 and 2009 a total of 230 bn kroner (about EUR 23 bn euros) of Norwegian covered bonds were exchanged in swap agreements with the government. A high demand for covered bonds in the following years gave a smooth phase out of the swap agreement. In June 2014, the final bonds used in the swap agreement came to maturity.

A proposal on Norwegian implementation of the EU-framework on covered bonds has been prepared by the Supervisory Authority and was sent on public consultation by the Ministry of Finance in 2020. The authorities have pointed to the fact that there is little need for major changes in Norwegian legislation when implementing the framework. The Ministry of Finance has also expressed its intention to establish a harmonised framework in line with other European jurisdictions. It has been stated that the new legislation will enter into force in Norway in line with the EU (i.e. 8 July 2022).

**II. STRUCTURE OF THE ISSUER**

According to Norwegian legislation, covered bonds may only be issued by specialised credit institutions. Today there are 24 such institutions in Norway. A majority are subsidiaries of individual parent banks, while a few issuers are owned by groups of banks. The institutions are subject to the same type of regulations as other Norwegian financial institutions, for example capital adequacy requirements, liquidity management requirements etc. The issuers are subject to a supervisory regime that involves both an independent inspector and a public supervisor, the Financial Supervisory Authority of Norway ("Finanstilsynet"). The smallest issuers only issue bonds in local currency (NOK) in the domestic market, while the largest issuers are on a regular basis present in international capital markets.

Cover pools are dominated by residential mortgages, and majority of issuers are specialised residential mortgage institutions (cf. the name "Boligkreditt"). Only a small number of issuers are specialised in commercial real estate or in public sector loans. Covered bonds from such issuers constitute just below 2% of the total outstanding volume.

A licensed credit institution may raise loans by issuing covered bonds where the object of the institution, as laid down in the articles of association, is to grant or acquire residential or commercial mortgages, public sector loans and loans secured by other registered assets. In addition, the company should finance its lending

business primarily by issuing covered bonds. The articles of association of the institution shall state which types of loans that shall be granted or acquired by the institution. The scope of the business will therefore be restricted, and institutions will have a very narrow mandate, which ensures transparency.

### **III. COVER ASSETS**

Under the Act the cover pool may only consist of the following assets:

- > Residential mortgages;
- > Commercial mortgages;
- > Loans secured by other registered assets;
- > Public sector loans;
- > Assets in form of derivative agreements (in accordance with regulation);
- > Substitute assets (in accordance with regulation).

Mortgages have to be collateralised with real estate or other eligible assets within the EEA or OECD, and the same geographical requirement applies to the location of the public sector loan borrowers. The Regulation adds rating requirements on the national government of the country where the mortgaged property or the borrower has its location.

The substitute assets may constitute up to 20% of the cover pool and are required to be both secure and liquid. The FSA may in certain situations authorise the share of substitution assets to increase to a maximum of 30% for a limited period.

### **IV. VALUATION AND LTV CRITERIA**

#### **LTV**

The maximum loan-to-value ratio (LTV) is fixed by the Regulation. For residential mortgages the LTV limit is set to 75%, while the limit is 60% for mortgages concerning holiday/leisure properties and commercial mortgages. The mortgage credit institution shall monitor the development of the LTV of the individual asset as well as the market of the underlying assets.

#### **Valuation**

Upon inclusion of loans in the cover pool, a prudent market value shall be set. The valuation shall be documented. The valuation of residential properties may, be based on general price levels if justifiable by market development. For holiday/leisure properties the value may only be based on general price levels after the inclusion in the cover pool.

The credit institution shall establish systems for monitoring subsequent price developments. Should the property prices decline, the part of a mortgage that exceeds the relevant LTV limit is still part of the cover pool and protects the holders of preferential claims. However, it will not be taken into account when calculating the overcollateralisation in the cover pool. The same principle applies to loans that are in default, i.e. more than 90 days in arrears.

There are four main sources of market values: sales prices, real estate agent appraisals, surveyor values and Automated Valuation Model (AVM).

In Norway, most real property is sold through authorized real estate agents. They have undergone special training to operate as an estate agent and are subject to strict authorisation rules and control routines on part of the authorities.

There is one marketplace, "Finn.no", where most residential properties are put up for sale. This makes it easy to do proper marketing for properties for sale, and both seller and buyer are acting knowledgeably. Properties sold through Finn.no are sold as an open auction.

Valuation is part of the real estate agent education in Norway. Most market value appraisals applicable to mortgages are compiled in a system called Etakst. Etakst is a digitalised system developed by the Norwegian mortgage industry and contains two parts:

1. Valuation software for the real estate agent;
2. Documentation of market values for the banks.

Etakst provides a standardised approach for real estate agents to compute market values. The agents will always provide data on key features (pictures, market value based on similar dwellings in the same area etc.) for the mortgage bank.

The bank is granted access to the data when the applicant or the real estate agent provides a unique reference number to the mortgage bank. Etakst is compliant with international valuation standards such as European Valuation Standards (EVS) and International Valuation Standards (IVS).

Most Norwegian banks make extensive use of Eiendomsverdi as an AVM (automated valuation model) provider, for estimating market values of residential real estate and updating the values in accordance to subsequent development in the residential real estate market. The market value estimates are based on a complex valuation model and is performed on a property-by-property basis. The model is used both at origination, as a benchmark for physical valuations, and for updating market values on banks mortgage portfolios.

Most Norwegian covered bond issuers update the valuations on the properties in the portfolio on a quarterly basis. These updates are based on Eiendomsverdi's AVM. For each property, market value estimates are calculated using information on the specific property, comparable sales, and other attributes relevant for the housing market. Due to the richness and granularity in Eiendomsverdi's database (all residential property sales in Norway are recorded daily into the database), the estimates from Eiendomsverdi's AVM are perceived as robust, and will adapt to changes in market conditions on a daily basis. Eiendomsverdi is a member of the European AVM Alliance (EAA) and comply with the "European Standards for Statistical Valuation Methods".

## **V. ASSET – LIABILITY MANAGEMENT**

The Norwegian covered bond legislation has traditionally imposed a strict balance principle, implying that the value of the cover pool always shall exceed the value of the covered bonds. On the 29 March 2017, the MoF announced that an OC-requirement, in addition to the strict balance principle, was set at 2% with immediate effect.

The Regulation establishes a mark-to-market principle of both assets and liabilities. Only the value of mortgages within the LTV limits is taken into account in this context. The Act caps the maximum exposure to one single borrower at 5% of the cover pool when calculating the overcollateralisation.

All voluntary OC are part of the cover pool and some issuers have committed themselves to a certain level of OC. Equally, the credit institution shall ensure that the payment flows from the cover pool enable the institution to honour its payment obligations towards holders of covered bonds and derivative counterparties at all times. It shall establish a liquidity reserve to be included in the cover pool as substitute assets in addition to carrying out periodically stress tests to ensure satisfactory liquidity management.

A covered bond issuer shall not assume greater risk than what is prudent at all times. It is obliged to establish a limit on the interest rate risk in relation to its own funds and potential losses. This shall be based on a parallel shift of 1 percentage point in all interest rate curves as well as non-parallel shifts in the same curves. Furthermore, a covered bond issuer shall not be exposed to any substantial foreign exchange risk and is thus obliged

to establish limits on such risks. For the largest issuers, the issuance is often denominated in EUR with a fixed rate, whereas the mortgages are typically in NOK and with a floating rate. Consequently, Norwegian issuers are dependent on using derivatives to remove FX- and interest rate risk and to satisfy regulatory requirements.

If a derivative agreement has a positive mark to market value, the amount will be a part of the cover pool. If the value is negative, the counterparties in the derivative agreement will have a preferential claim in the pool, ranking pari passu with the holders of covered bonds. As a corollary to this, the counterparties in the derivative agreements will be subject to the same restrictions with respect to the declaration of default as the bondholders.

## **VI. TRANSPARENCY**

Finance Norway and the Norwegian Covered Bond Council have recommended that all Norwegian issuers use the Harmonised Transparency Template (HTT) to increase transparency and comparability. In this relation, a "Norwegian version" of the HTT has been developed based on some common standards from the previously developed national template.

The HTT is only mandatory for issuers with a "label" from the Covered Bond Label Foundation. Norwegian issuers with such label are DNB Boligkreditt, Eika Boligkreditt, Nordea Eiendomskreditt, SpareBank1 Boligkreditt, Møre Boligkreditt, Sparebanken Sør Boligkreditt, Sparebanken Vest Boligkreditt and SR-Boligkreditt.

The HTT for Norwegian issuers can be found on Finance Norway's webpage:  
<https://www.finansnorge.no/en/covered-bonds/>.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Norwegian issuers are subject to a supervisory regime involving both an independent inspector ("cover pool monitor") and the public supervisor, the FSA.

The institution shall notify the FSA no later than 30 days prior to the initial issuance of covered bonds. No further approvals from the authorities are needed when issuing covered bonds with an exception should the financial strength of the institution gives rise to concern.

The mortgage institution shall maintain a register of issued covered bonds, and of the cover assets assigned thereto, including derivative agreements. To oversee that the register is correctly maintained, an independent inspector shall be appointed by the FSA. The inspector shall regularly review compliance with legislative requirements and report to the FSA.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The term "covered bonds", (in Norwegian "obligasjoner med fortrinnsrett" or "OMF") is protected by law and may only be applied under the rules of covered bonds. Under the Act, covered bond issuers cannot be declared bankrupt, but have to be placed under public administration if facing solvency or liquidity problems. This gives the authorities more flexibility to deal with covered bond companies, while maintaining the rights of covered bond holders. The liquidator shall ensure proper management of the cover pool and ensure that holders of covered bonds and derivative counterparties receive agreed and timely payments. Public administration or insolvency does not in itself give holders of covered bonds and derivative counterparties the right to accelerate their claims. Should it not be possible to make contractual payments when claims fall due, and an imminent change is unlikely, the liquidator shall introduce a halt to payments.

The covered bond owners and derivative counterparties have an exclusive, equal and proportionate preferential claim over the cover pool, and the administrator is bound to assure timely payment, provided the pool gives full coverage to the said claim.

The preferential claim also applies to payments that accrue to the institution from the cover pool. As long as they receive timely payments, the creditors do not have the right to declare that the issuer must be placed under

public administration. Details about this issue may be reflected in the individual agreements between the issuer and (the trustee of) the bondholders. These provisions will also apply to any netting agreements between the institution and its counterparties in derivative transactions.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation fulfils and is in compliance with the relevant EU legislation, i.e. the Capital Requirements Regulation (CRR) and Article 52 (4) UCITS.<sup>1</sup> Hence, Norwegian covered bonds are eligible for reduced (10%) risk-weighting under the standard method for capital adequacy requirement. They are also eligible as collateral in the ECB and qualify as liquid assets under the Liquidity Coverage Ratio (LCR) given fulfilment of the specific criteria defined in the Delegated Act.

The issuers are licensed credit institutions under supervision of the Norwegian FSA, and as such they are bound to comply with all relevant single market directives and regulations applicable to European credit institutions.

## **X. ADDITIONAL INFORMATION**

### **Legislation supplementing the covered bond legislation**

The legal framework regulating the housing market provide legal certainty and foreseeability for both consumers as borrowers and owners of housing, and for credit institutions as lenders and creditors. This includes specific consumer protection legislation, a centralised electronic registry system for the ownership of and rights (mortgage, etc.) regarding real estate, and an effective and expedient forced sale procedure.

The Act on Financial Contracts and Financial Assignments (The Financial Contracts Act – Act 1999-06-25 no. 46) regulates the contractual conditions in respect of a loan agreement between financial institutions and their customers, both consumers and corporate clients. The act applies in principle to all types of loans, whether it is secured or not. The act is invariable in respect of consumer contracts, i.e. it cannot be dispensed by an agreement that is disadvantageous to the customer.

The Mortgage Act (Act of 8 February 1980 no.2) regulates mortgages secured by real property. Ownership and special rights in real property may be mortgaged under the provisions set out in Chapter 2 of the Act, cf. section 2-1. Unless otherwise agreed, real property mortgage comprises the land, houses and building that the mortgagor owns and accessories and rights as set out in law, cf. section 2-2. A mortgage may also be established on a lease of land or an owner section in a building/freehold apartment, cf. section 2-3 and section 2-4. Mortgage rights acquire legal protection by registration in the Land Registry/Register of Deeds.

The Forced Sales Act (Act of 26 June 1992 no.86) provides for an effective and expedient forced sale procedure. A lender may, if a loan is accelerated and the borrower fails to pay any due amount, file an application before the county court for a forced sale of the property that backs the mortgage loan, cf. section 4-4 of the Forced Sales Act. The registered mortgage contract will itself constitute the basis for such application, cf. section 11-2 and 12-2. There is no need for additional judgment by the court to provide such basis for a forced sale.

### **Temporary mortgage regulation extended**

Due to the authorities concern regarding housing prices and its correlation with household debt, the Ministry of Finance introduced a regulation on requirements for new residential mortgage loans in 2015. The goal of the regulation is to ensure a sustainable development in household debt. The regulation is temporary and have been assessed on several occasions since its introduction. In December 2020 the MoF announced that the mortgage regulation will be merged with similar requirements on unsecured debt. The joint regulation applies until 31. Dec 2024 but will be re-assessed in the autumn 2022. For mortgages the following apply:

- > Loan-to-value (LTV) requirement of maximum 85%

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

- > Stress test: Households must be able to service their debt in the event of a five percentage points increase in mortgage rates
- > Maximum debt-to-income (DTI) ratio requirement of five times gross annual income
- > A minimum principal payment requirement (2.5%) if the LTV ratio exceed 60%
- > Interest-only periods on mortgages and home equity lines of credit may only be granted when LTV is below 60%
- > Flexibility quota: Up to 10% of the value of new loans can deviate from one or more of the requirements in each quarter
- > For mortgages located in Oslo, the deviation limit is set to 8% of the value of new loans each quarter. In addition, there is an LTV requirement of maximum 60% for secondary homes in Oslo.

### **Register on unsecured debt**

In 2019 the Debt Information Act entered into force. The Act requires that banks and other financing companies report information on consumer loans and credit card debt to central debt registers. Banks can now access these registers and receive updated information on a borrowers' consumer debt, and hence receive a complete picture of a borrowers' debt situations.

### **Market overview and additional information**

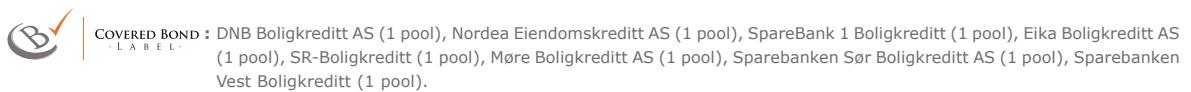
According to Finance Norway's covered bond figures, a total of approximately EUR 30.1 bn. of covered bonds was issued in 2020. The total level of outstanding bonds is close to EUR 134.3 bn. 48% of the outstanding bonds are denominated in NOK, 47% in EUR, and the remaining 5% in other foreign currencies.

Since the start of 2018 a total of 8 Norwegian issuers have issued green covered bonds based on residential mortgages. Issuances have been done in NOK, SEK and EUR with a total outstanding volume of approximately 7.3 bn. EUR at year-end 2020.

More information and additional data are available on Finance Norway's webpage:  
[www.finansnorge.no/en/](http://www.finansnorge.no/en/)

**Issuers:** Bustadkredit Sogn og Fjordane AS, DNB Boligkredit AS, Eiendomskredit AS, Eika Boligkredit AS, Fana Sparebank Boligkredit AS, Gjensidige Bank Boligkredit AS, Helgeland Boligkredit AS, KLP Boligkredit AS, KLP Kommunekredit AS, Landkredit Boligkredit AS, Møre Boligkredit AS, Nordea Eiendomskredit AS, OBOS Boligkredit AS, Sandnes Sparebank Boligkredit AS, Sbanken Boligkredit AS, SpareBank 1 Boligkredit AS, SpareBank 1 Næringskredit AS, Sparebanken Sør Boligkredit AS, Sparebanken Vest Boligkredit AS, Sparebanken Øst Boligkredit AS, SR-Boligkredit AS, Storebrand Boligkredit AS, Toten Sparebank Boligkredit AS, Verd Boligkredit AS.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/75/Norwegian\\_Covered\\_Bonds](https://www.ecbc.eu/framework/75/Norwegian_Covered_Bonds)



### **3.28 PANAMA**

By Frank Will, HSBC & Chairman of the EU Legislation Working Group

#### **I. FRAMEWORK**

In September 2012, Global Bank became the first issuer of covered bonds out of Panama. It was also Latin America's inaugural covered bond. The USD 200mn deal was issued under Global Bank's USD 500mn Residential Mortgage Loans Covered Bond Programme and was later increased by USD 100mn. Following a partial buyback in September 2016, the bond matured in October 2017.

The second Panamanian covered bond issuer is Banco La Hipotecaria which issued its first USD 11mn covered bond in December 2018. Two more covered bonds with a total size of USD 41mn were issued in 2019.

Panama currently does not have a specific legal framework for covered bonds. Thus, Panamanian covered bonds are based on contractual agreements and the programme characteristics are self-imposed. Similar to the structures used in other markets without a specific covered bond law, many programme features are derived from securitisation techniques. Please note that our country analysis is based on the only available covered bond programmes in Panama to date, i.e. the ones from Global Bank and Banco La Hipotecaria.

#### **II. STRUCTURE OF THE ISSUER**

In the absence of a specific covered bond law in Panama, the Panamanian issuers used certain securitisation techniques and contractual law to replicate the key features of specific law based covered bonds and to ensure that the cover pool is isolated in the event of issuer insolvency. The covered bonds represent direct unconditional and unsubordinated obligations of the issuer and rank pari passu among themselves. The covered bond programmes foresee a separate cover pool of Panamanian residential mortgage assets that is transferred to a guaranty trust. The covered bond holders have a priority claim on these assets.

#### **III. COVER ASSETS**

Given the lack of a Panamanian covered bond law, we focus below on the asset requirements of the covered bond programmes of the two banks which bear a strong resemblance but differ in the detail.

Under Global Bank's covered bond programme, the covered bonds are backed by a dynamic pool of first-ranking residential mortgage loans originated in Panama, subject to the following eligibility criteria:

- > The loans must be denominated in USD;
- > The mortgage borrowers must be individuals resident in Panama;
- > Each loan is secured by a valid and enforceable mortgage or by a guaranty trust, in accordance with Panamanian Law over a fully completed residential property located in Panama;
- > With respect to any loan, there are no other loans secured by mortgages or by a guaranty trust ranking pari passu or senior with the mortgage or guaranty trust securing such loan (if there are other loans secured by mortgages or by a guaranty trust and ranking pari passu or senior with the mortgage or guaranty trust securing such loan, such loans have also been originated by the issuer and are included in the portfolio);
- > No loan has a current principal balance of more than USD 500,000;
- > Each loan has a remaining term of no longer than 30 years; and,
- > No loan that has been transferred to the guarantee trust has been more than 90 days in arrears during the calendar year preceding the transfer date.

The aggregate principal amount of substitution assets (and/or authorised investments) may not at any time exceed 20% of the aggregate principal balance of the Guaranty Trust Assets.

The cover pool assets of the Banco La Hipotecaria are subject to the following eligibility criteria:

- > The mortgage loans must be for purchases of owner occupied homes, with debtors being residents of Panama;
- > Mortgage payments of the debtor have to be less than 35% of the gross family income and the complete debt service less than 55% of the income;
- > The principal balance is more than USD 2,000 and less than USD 150,000;
- > The property has to be insured against fire or other damages, with the insurance covering at least 80% of the property value; and,
- > The debtor has to have a life insurance covering the principal balance.

The issuer has the right to replace the mortgage loans in the cover pool as long as the cover asset requirements are met.

#### **IV. VALUATION AND LTV CRITERIA**

In Global Bank's covered bond programme, the maximum permitted LTV is 100%. For non-preferential first lien mortgages the LTV caps are lower (95% for employed borrowers, 85% for self-employed and 70% for foreign borrowers). The Asset Coverage Test does not give any credit to mortgage loans more than 90 days past due. The maximum asset percentage is set at 84.4%.

For Banco La Hipotecaria, the maximum permitted LTV is 98% of the original purchase price for a new acquisition and 85% for the refinancing of existing mortgage loans. Mortgage loans issued by Banco La Hipotecaria itself may have an LTV up to 99%, but only under certain restrictive conditions.

#### **V. ASSET – LIABILITY MANAGEMENT**

Global Bank's covered bond features several tests including an Asset Coverage Test, an Interest Shortfall Test, a Yield Shortfall Test and an Amortisation Test.

- > **Asset Coverage Test:** The Asset Coverage Test is breached if, on any calculation date prior to the occurrence of an issuer event of default and the service of a notice to pay on the guaranty trustee, the adjusted aggregate loan amount is less than the aggregate principal amount outstanding of the covered bonds.
- > **Interest Shortfall Test:** The Interest Shortfall Test is breached when, on any calculation date prior to the occurrence of an issuer event of default and service of a notice to pay on the guaranty trustee, the income received with respect to the guaranty trust assets (including interest received or amounts received on hedging instruments) during the calculation period plus other available amounts (representing interest) is less than the interest amounts expected to accrue under the covered bonds during the next succeeding guaranty trust payment period.
- > **Yield Shortfall Test:** The Yield Shortfall Test is breached when, on any calculation date following an issuer event of default and service of a notice to pay on the guaranty trustee, interest amounts under the loans and other amounts (representing interest) received by the guaranty trustee in respect of the guaranty trust assets during the calculation period cease to give a yield on the loans at least equal to the weighted average interest rate on the outstanding series of covered bonds.
- > **Amortisation Test:** The Amortisation Test is breached if, for so long as any covered bonds remain outstanding upon the occurrence of an issuer event of default and on any calculation date following the occurrence of an issuer event of default and the service of a notice to pay on the guaranty trustee (but prior to the service of a guaranty trust acceleration notice), the amortisation test aggregate loan amount is less than the aggregate principal amount outstanding of the covered bonds as at the determination date.

The issuer can issue covered bonds in hard-bullet or soft-bullet format. In case of soft-bullet bonds, the outstanding covered bonds' maturity will automatically be extended by up to 12 months if the issuer fails to fully redeem a series.

The programme of Banco La Hipotecaria has the following key requirements:

- > The Coverage Ratio is greater than or equal to 125%;
- > The Liquidation Coverage Ratio is greater than or equal to 100%;
- > The Gross Weighted Average Interest Rate Ratio is greater than or equal to the sum of (i) the Outstanding Covered Bonds Weighted Average Interest Rate and (ii) 0.5%;
- > The Net Weighted Average Interest Rate Ratio is greater than or equal to the greater of (i) the Outstanding Covered Bonds Weighted Average Interest Rate minus 3.5% and (ii) 1.0%;
- > The Percentage of Preferential Interest Rate Mortgages Ratio is less than or equal to 80%;
- > The Weighted Average Loan to Value Ratio is less than or equal to 88%;
- > The Weighted Average Maturity Ratio is less than 342 months;
- > The Weighted Average Seasoning Ratio is greater than or equal to 18 months; and,
- > No mortgage loan is in default more than 90 days.

## **VI. TRANSPARENCY**

Global Bank's prospectus requires the bank to prepare a monthly investor report listing selected statistical information in relation to the underlying portfolio and the characteristics of the portfolio as well as confirming compliance with the Asset Coverage Test. The issuer provides comprehensive information on the borrowers (income brackets, employment type, life insurance), delinquency rates, fire & earthquake insurance of the properties, loan-to-value ratios by brackets and charged interest rates. The Banco La Hipotecaria publishes monthly servicer and pool data reports covering the same information, which are validated by the asset monitor with respect to all pool ratio requirements.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

In the absence of a legal framework defining the monitoring requirements for the cover assets, both covered bond issuers defined their own monitoring frameworks. Both issuers appoint an "asset monitor" that monitors the loans in the cover pool and validates the information and periodic reports published by the issuer with regards to the tests and criteria that are described above, as well as arithmetic accuracy. Failure to pass the tests or to satisfy the requirements leads to the issuer being obligated to immediately transfer substitute assets or other remedial means until compliance is established again. Failure to do so would lead to a prohibition of the issuing of further covered bonds or even an issuer event of default.

## **VIII. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The covered bonds are neither Article 52(4) UCITS-compliant nor Article 129 CRR-compliant as Panama is not a Member State of the European Union (EU). In addition, Panama does not have national covered bond legislation. Therefore, the covered bonds do not benefit from a preferred risk-weighting for regulatory capital purposes under EU rules. Under the Standardised Approach, they are treated similarly to senior unsecured bank debt.

As Panama is neither a European Economic Area (EEA) country nor a G10 country, Panamanian covered bonds are not eligible for the ECB repo operations regardless of their currency and their rating.

**Issuers:** Global Bank Corp (Panama).



### **3.29 POLAND**

By Agnieszka Tułodziecka, Polish Mortgage Credit Foundation, Krzysztof Dubejko, mBank Hipoteczny and Daniel Goska, PKO Bank Hipoteczny

#### **I. FRAMEWORK**

The legal framework for covered bonds (Listy Zastawne, also LZ) is mainly determined by:

- > The Act on Covered Bonds and Mortgage Banks (*Ustawa o listach zastawnych i bankach hipotecznych*) of August 29, 1997; (The List Zastawny Act – hereafter: The LZ Act).
- > The Bankruptcy Law (*Prawo upadłościowe*) of February 28, 2003, Chapter II – Bankruptcy proceedings for mortgage banks, Article 442–450.

In 2014, key under-law regulations for mortgage banks were amended:

- > Recommendation F – the standards for determining mortgage-lending value were eased.
- > Recommendation K – the rules on keeping and managing cover registers were actualised.

Both recommendations were to be implemented by 1 January 2015.

In 2015 the LZ Act has been thoroughly updated in order to increase the safety of the covered bonds and their availability to investors with new provisions coming into force as of 1 January 2016. Among the key modifications were: introduction of statutory overcollateralisation and liquidity buffer and increase of funding limit for residential loans as well as implementation of soft bullet and conditional pass through structure upon insolvency.

In 2015, new *Regulation of the Minister of Finance of 30 December 2015 on conducting the collateralisation review and coverage and liquidity tests* were issued.

Additionally, in 2015, further amendments were introduced to Recommendation K.

#### **II. STRUCTURE OF THE ISSUER**

The issuer is a specialised credit institution (mortgage bank) with the supervision of Polish Financial Supervision Authority (*Komisja Nadzoru Finansowego*, KNF). It is required by law that the mortgage bank is a joint stock company with a legal personality (not a branch) with two licenses: a banking license and consent to start operating activity, both granted by the KNF.

The additional covered bond issuer is Poland's only state-owned bank, Bank Gospodarstwa Krajowego (BGK), which may issue covered bonds to finance in particular government programmes. However, there have been no issues of BGK so far.

According to the LZ Act, a mortgage bank is limited in its range of business activities, i.e. it may only engage in activities specified in a closed catalogue. The operations of a mortgage bank can be divided into two groups: core and non-core, and may be also executed in foreign currencies.

**The core operations** which may be performed by mortgage banks include:

- > Granting loans secured with mortgages;
- > Granting loans where the borrower, guarantor or underwriter of a loan repayment is the National Bank of Poland, European Central Bank (ECB), governments or central banks of the European Union (EU) member states, Organisation for Economic Cooperation and Development (OECD), or where a guarantee or security is granted by the State Treasury;
- > Acquisition of other banks' receivables on account of loans granted by them;
- > Issuing mortgage covered bonds;
- > Issuing public sector covered bonds.

Apart from core operations, mortgage bank's approved activities comprise: taking credits and loans, issuing bonds, securities safekeeping, providing consulting and advice with respect to the property market, managing receivables of a mortgage bank and other banks arising from mortgage-backed loans, as well as granting such loans on behalf of other banks on the basis of relevant cooperation agreements.

A mortgage bank is not authorised to perform any other activities apart from the operations listed above. Particularly, it cannot accept deposits. Such limitations facilitate maintaining a more simplified and clearer activity structure and the specialisation of the loan division as well as the improvement of credit risk assessment methods in the field of real estate financing. Furthermore, funds obtained from covered bond issues shall be used mainly for funding the lending activity of a mortgage bank.

### **III. COVER ASSETS**

Mortgage banks in Poland focus on mortgage or public sector lending. The loans are held on the balance sheet of the issuer and registered in two separate cover registers, which form two separate cover pools.

There are two specific classes of covered bonds which correspond to each of the cover assets:

- > hipoteczne listy zastawne (mortgage covered bonds) and
- > publiczne listy zastawne (public sector covered bonds).

Both mortgage and public sector covered bonds are direct and unconditional obligations of the issuer and must be fully secured by cover assets of the respective class. Upon the issuer's default, covered bondholders have a dual recourse to a segregated cover pool of assets and, if the cover pool proves to be not sufficient, an unsecured claim against the issuer. Furthermore, the covered bondholders benefit from a statutory priority claim over all the assets in the cover pool. There is no time subordination: all covered bonds are ranked *pari passu*.

Pursuant to the LZ Act, the substitution assets can be included in the cover pool i.e. they may consist of the bank's funds invested in the securities issued or guaranteed by the National Bank of Poland, ECB, governments or central banks of the EU Member States, OECD (with the exclusion of states which are, or were, restructuring their foreign debt in the last 5 years), and the State Treasury, deposited at the National Bank of Poland or kept in cash. However, the total nominal amounts of the mortgage bank's claims secured with a mortgage or based on the public sector claims, constituting a basis for the issue of mortgage covered bonds, may not be less than 85% of the total amount of nominal value of outstanding covered bonds.

All hedging derivatives are eligible for the cover pool (the bank can conclude only hedging derivatives). Settlement amounts due under such contracts and included into the cover pool rank *pari passu* with claims of covered bondholders.

In addition, receivables secured by mortgages established on buildings, which are in the construction process, may not in total exceed 10% of the overall value of mortgage-secured receivables in the cover pool. Within this limit, the receivables secured by mortgages on construction lots in compliance with the land-use plan may not exceed 10.

### **IV. VALUATION AND LTV CRITERIA**

The property valuation in a mortgage bank is conducted under the rules stipulated in the LZ Act. According to the Polish covered bond legislation, establishing the mortgage lending value of the property shall be performed with due care and diligence on the basis of an expert's opinion. It shall be prepared by the mortgage bank or other entities with appropriate real estate appraisal qualifications commissioned by the mortgage bank. The mortgage lending value cannot be higher than the market value of the property.

Apart from the assumptions laid down in the LZ Act concerning property valuation in a mortgage bank, there are special banking supervisory regulations (Recommendation F), which stipulate in detail the establishment of the mortgage lending value and impose a duty on a bank to have a database for real estate prices.

The funding limit – related to a single loan – is established at the level of 60% of the mortgage lending value of the commercial property and of 80% in the case of residential property (Article 14 LZ Act). In the part above 60% of the mortgage lending value of the property, the total amount of receivables from granting credits secured with mortgages or receivables purchased from other banks arising from their mortgage-secured credits, may not exceed 30% of the total amount of the mortgage bank's receivables secured with mortgages (absolute portfolio limit, Article 13.1 LZ Act).

Apart from funding limit, there is also lending limit, according to Article 13.2 LZ Act, stipulating that single loans granted or purchased by a mortgage bank cannot exceed the mortgage lending value of the property.

## **V. ASSET-LIABILITY MANAGEMENT**

According to the LZ Act (Article 18), the total nominal value of all outstanding covered bonds (which should be calculated separately for each class) shall not exceed the sum of nominal amounts of (either mortgage or public sector) covered assets, which form the basis for the covered bond issue. Since January 2016, the ongoing cover principle is more prudent, including 10% mandatory overcollateralisation. That would apply to both public and mortgage covered bonds, the overcollateralisation is calculated on nominal basis regarding the capital amount of outstanding covered bonds. Additionally, part of the cover pool would be compulsory composed of liquid assets (e.g. central bank eligible bonds), in order to ensure preparation of liquidity buffer, not being a base for the covered bond issue. It is assumed that the value of these liquid assets (liquidity buffer) would ensure full and timely payment of the interest on the covered bond due in the upcoming 6 months.

Thus, the nominal value of respective covered assets shall permanently be higher than the total nominal value of the respective covered bonds. In addition, the mortgage bank's income from interest on its respective cover assets may not be lower than the amount of bank's payable interest on its respective outstanding covered bonds.

## **VI. TRANSPARENCY**

Cover pool transparency reports for individual banks are available at their respective websites (see below). All four Polish mortgage banks are holding the Covered Bond Label and publish their reports following the Harmonized Transparency Template.

The majority of Polish covered bonds (public sector and mortgage covered bonds, the latter denominated in PLN as well as in EUR) are listed on the Catalyst, a local bond market operated by WSE and BondSpot. Covered bonds denominated in EUR are also listed on the Luxembourg Stock Exchange.

Both markets are supervised by the Polish Financial Services Authority and are approved as regulated markets by the European Securities and Markets Authority ([http://registers.esma.europa.eu/publication/searchRegister?core=esma\\_registers\\_mifid\\_rma](http://registers.esma.europa.eu/publication/searchRegister?core=esma_registers_mifid_rma)).

Issuers, whose securities are listed on the regulated market, are legally bound to provide actual and potential investors with all and any information about their company's economic situation and events which may have an effect on investment risk. Consequently, mortgage banks are obliged to submit disclosures in the form of current and periodic reports, including information on subscription, assigned rating or interest payment dates of covered bonds.

Issuance documents such as Base Prospectus and Supplements for individual series comprising detailed information on the covered bonds as well as the issuer can be found on the issuers' websites:

mBank Hipoteczny: <http://mhipoteczny.pl/en/investor-relations/>

Pekao Bank Hipoteczny: <http://www.pekaobh.pl/>

PKO BP Bank Hipoteczny: <https://www.pkobh.pl/en/>

ING Bank Hipoteczny: <https://en.inghipoteczny.pl/inghipoteczny-en/investor-relations>

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

One of the key features of Polish covered bond legislation (Article 31 LZ Act) is the monitoring role undertaken by the covered pool monitor (*powiernik*) who is appointed by KNF at the request of the mortgage bank's supervisory board. The cover pool monitor is independent and shall not be bound by instructions of the appointing body.

The cover pool monitor is responsible for an ongoing control of the appropriateness of the cover pool management. Its main tasks comprise monitoring of the cover pool (i.e. confirming the accuracy of the inclusion in or removal from the cover register of the cover assets, ensuring that the asset eligibility requirements are met, verifying the correctness of the value registered in the cover pool, etc.) as well as the issuer's compliance with specific provisions of the LZ Act and reporting any breaches of them to the KNF.

The cover pool monitor is required to perform above mentioned tasks not only on an ongoing basis, but also prior to every issuance of a mortgage bank in order to ensure that a mortgage bank provides an appropriate cover for the planned issue. The issuer is obliged to provide full cooperation to the cover pool monitor and shall give the cover pool monitor the right to review the register, loan documents, accounting books or other bank's documents at its request.

Apart from cover pool's management monitoring performed by the cover pool monitor, mortgage banks fall under the oversight of the KNF which carries out general assessment of Polish banks, including mortgage banks as a part of general banking supervision.

The KNF may commission an independent expert at the expense of the inspected mortgage bank to inspection of the appropriateness of the mortgage bank's entries to the mortgage cover register. This would also include establishing the mortgage lending value of the property was in compliance with the rules referred to in Article 22, paragraph 5 LZ Act.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Pursuant to the LZ Act and the Bankruptcy Law (which is complementary to the former in terms of the insolvency issues, containing a separate chapter: Chapter II – Bankruptcy proceedings for mortgage banks – Articles 442-450), in case of bankruptcy of a mortgage bank the receivables, claims and means entered in the cover register shall constitute a separate bankruptcy estate which may be used exclusively to satisfy claims of covered bondholders. Moreover, initiation of the insolvency proceedings does not affect *listy zastawne*, i.e. they do not automatically accelerate when the issuer becomes insolvent.

After declaring a bankruptcy of the mortgage bank, the court appoints the curator (*kurator*) who represents the rights of covered bondholders in the bankruptcy proceedings and notifies the total nominal value of outstanding covered bonds together with accrued interest to the bankruptcy estate. In order to perform these duties, the curator has the right to review the accounting books and other documents of the mortgage bank as well as to obtain all the necessary information from the receiver (*syndyk*), court supervisor (*nadzorca sądowy*) and administrator (*zarządcą*).

The curator participates in the liquidation of a separate bankruptcy estate, performed by the receiver. If possible, the items of such estate may be sold to another mortgage bank. While maturities of covered bond principal are postponed automatically by 1 year further, during this period all interest payments are executed pursuant to the terms and conditions of the L.Z. The aim of that solution is to support the timely payment of covered bonds, if a mortgage bank goes insolvent. Additional amendments to the law on bankruptcy include the introduction of the asset coverage test, which verifies whether the separate insolvency estate is sufficient to fully satisfy the claims of the bondholders, as well as the liquidity test, which verifies whether the separate insolvency estate is sufficient to fully satisfy the claims of the covered bondholders on the extended redemption dates. These tests are conducted also during regular activity of the mortgage bank.

With a separate bankruptcy estate, the following categories should be satisfied successively:

- > Liquidation costs of the separate bankruptcy estate, which also include the remuneration of the curator, as well as interest and other covered bonds receivables;
- > Covered bonds as per their nominal value.

The Polish model, introduced in January 2016, stipulates a statutory soft-bullet-structure in case of a mortgage bank insolvency, conditional pass-through payments, as well as detailed regulated scenario for insolvency procedure with clear competences and precise legal tools for action including over-indebtedness and liquidity tests. Transition into both soft bullet and conditional pass-through structures can only be triggered by legally specified events (insolvency and failed coverage tests) with limited decision rights in this respect granted to covered bond holders (possible resolution of covered bondholders with 2/3 majority to sell the separate bankruptcy asset pool to another bank).

After satisfying the covered bondholders the surplus of the cover assets deriving from the separate estate shall be allocated to the general bankruptcy estate. In case that the separate bankruptcy estate does not fully satisfy the cover bondholders, the remaining amount shall be satisfied from the whole bankruptcy estate funds. In that case, the remaining amount shall be transferred from the bankruptcy estate funds to the separate bankruptcy estate funds. It indicates that the covered bondholders are given preference over other creditors.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

In order to apply a preferential risk-weighting for covered bonds, the instrument needs to meet the criteria laid down in the UCITS Directive and the CRR.

Polish covered bonds (*listy zastawny*) already meet the criteria of Article 52(4) UCITS: in December 2008 *listy zastawny* was notified by the European Commission (EC) as a European "eligible bond" (covered bond), i.e. the instrument with a qualified collateral and can be found on the EC's website at present ([http://ec.europa.eu/finance/investment/legal\\_texts/index\\_en.htm](http://ec.europa.eu/finance/investment/legal_texts/index_en.htm)).

Polish covered bonds also fall under the criteria of Article 129(1) of the CRR<sup>1</sup>:

- > Substitution assets, including liquidity buffer, comply with Article 129(1)(a-b) CRR;
- > Derivatives included in the cover pool may comply with Article 129(1)(c) CRR, at issuer's discretion depending of credit quality of chosen counterparty;
- > Residential real estate loans comply with Article 129(1)(d) CRR, LTV limit of 80%;
- > Commercial real estate loans comply with Article 129(1)(f) CRR, LTV limit of 60%;
- > Portfolio information is publicly available at least on semi-annual basis.

Following recent amendment of the LZ Act, foreign investors (both private and corporate) are exempt from withholding tax both in relation to coupons and principal amount.

PLN denominated *listy zastawne* are approved by the National Bank of Poland as the instruments eligible for intraday and lombard credit as well as repo transactions. As of May 2021, the haircut levels:

- > for repo using *listy zastawne* as collateral are 18% (up to 7 years) – 46,5% (above 15 years)
- > for intraday and lombard credit are 13,5% (up to 3 years) – 33% (above 15 years)

based on notional value and time remaining to maturity. Haircuts are the same as for corporate and municipal debt.

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<sup>1</sup> For further information on the UCITS Directive and the Capital Requirements Regulation (CRR) please see: <https://hypo.org/ecbc/covered-bonds/>.

EUR denominated listy zastawne issued under international covered bond programmes, which are eligible for Eurosystem credit operations, but are not eligible for the CBPP.

Polish investment regulations pertaining to investment limits for covered bonds are as follows:

- > Banks and insurance companies – no statutory limits, internal concentration limits apply, high-quality liquid asset status depending on outstanding issue amount and rating;
- > Insurance companies – aggregate limit up to 40% (publicly traded) or up to 10% (not admitted to trading) of technical-insurance reserves;
- > Open ended investment funds – 25% of assets under management (AuM) limit for covered bonds per issuer, 35% of AuM limit for total exposure per mortgage bank (including unsecured debt and OTC derivatives), 80% of AuM limit for all covered bonds in portfolio;
- > Closed ended funds – 25% of assets under management (AuM) limit for covered bonds per issuer;
- > Pension funds up to 40% of AuM, 5% per one issuer or issuer's group.

**Issuers:** mBank Hipoteczny S.A., Pekao Bank Hipoteczny S.A., PKO Bank Hipoteczny S.A., and ING Bank Hipoteczny S.A.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/77/Polish\\_Covered\\_Bonds](https://www.ecbc.eu/framework/77/Polish_Covered_Bonds)



COVERED BOND : PKO Bank Hipoteczny Spółka Akcyjna (1 pool), mBank Hipoteczny S.A. (1 pool), Pekao Bank Hipoteczny SA (2 pools).

### **3.30 PORTUGAL**

By Cláudio Domingues, Banco Comercial Português

#### **I. FRAMEWORK**

The Portuguese covered bond legislation consists of the Decree-law n.º 59/2006 complemented by secondary legislation comprising regulatory instruments published by the Bank of Portugal (*Avisos* and *Instruções*)<sup>1</sup>, addressing matters such as asset segregation, asset and liability management, risk and use of derivatives, property valuation requirements, as well as counterparty and cover asset eligibility criteria. Legislation governs both *Obrigações Hipotecárias* (OH) and *Obrigações Sobre o Sector Público* (OSP), which are covered bonds backed by loans secured by mortgages on real estate property ("mortgage loans") or loans to, or guaranteed by, central government, regional or local authorities ("public sector loans"), respectively.

#### **II. STRUCTURE OF THE ISSUER**

Portuguese covered bonds can only be issued by credit institutions authorised to grant mortgage loans and with own funds of no less than EUR 7.5 mln. Apart from banking institutions, legislation also allows issuance by specially-designated mortgage credit institutions (*Instituições de Crédito Imobiliário* or ICIs), whose business activity is limited to granting mortgage or public sector loans, for the sole purpose of issuing either OHs or OSPs.

Covered bonds issued by banking institutions are backed by eligible cover assets that remain on the issuer's balance sheet, effectively segregated from any future insolvent state ("cover pool"). There are no examples of covered bonds issued by an ICI, which can be either an independent entity or a fully-owned subsidiary of an existing credit institution.

#### **III. COVER ASSETS**

Mortgage or public sector loans are the only credits eligible to form part of cover pools. Mortgage loans must be either first *lien* mortgages, over either commercial or residential real estate property, or lower-ranking mortgage loans over the same property, provided all the associated higher-ranking mortgages form part of the same cover pool. The aggregated loan amounts secured on mortgages over the same property cannot present a loan-to-value (LTV) greater than the legal maximum of 80%, in the case of residential mortgages, or 60%, in case of commercial mortgages. Mortgaged properties must be located in an EU Member State, whereas public sector loans must be granted to, or guaranteed by, a central government, regional or local authority of an EU Member State. Loans should bear no delinquency upon assignment to the cover pool and must be removed so as to ensure no loans with more than 90 days delinquency are ever part of it.

In addition to credits, covered bond legislation allows for other assets ("substitution assets") up to 20% of the cover pool's nominal value. These can either be:

- > Deposits in the Bank of Portugal, in either cash or securities eligible for Eurosystem operations; or
- > Deposits in credit institutions rated at least "A-"; or
- > Other low-risk and high-quality assets, as determined by the Bank of Portugal.

Substitution assets are nonetheless subject to Bank of Portugal's regulation that establishes the cover pool maximum aggregated exposure to other credit institutions, excluding exposures up to 100 days, cannot exceed 15% of the aggregate nominal value of the outstanding covered bonds.

Derivative contracts are permitted as part of the cover pool for, and only for, risk hedging purposes, namely interest rate, exchange rate and liquidity risk. Derivatives must be executed in a regulated market of an EU

<sup>1</sup> Aviso n.º 5/2006, Aviso n.º 6/2006, Aviso n.º 8/2006, Instrução n.º 17/2018 (revoked n.º 21/2008, which in turn revoked n.º 7/2006), Instrução n.º 13/2006, Instrução n.º 3/2020 (revoked n.º 34/2018, which in turn revoked n.º 19/2005).

Member State in a legally established exchange of a full member of the OECD and entered into with a counterparty rated "A-" or above. Legal documentation should be standardised but must safeguard the preferential claim hedging counterparties share with covered bond holders. To hedge exchange rate risk, as in the case of a non-Euro issuance, exchange rate derivative contracts are mandatory.

The cover pool is dynamic while the originator is solvent, who carries the responsibility to replace with eligible assets those that cease to be so. Issuers are also required to maintain a record of all the assets in the cover pool, including derivative contracts.

#### **IV. VALUATION AND LTV CRITERIA**

Property valuation is regulated by a specific notice issued by the Bank of Portugal that lays down its fundamental principles, as well as specific rules and requirements. Accordingly, the underwriting valuation amount of mortgaged properties, meaning the property value considered during the credit decision and underwriting process, shall be its commercial value determined on a prudent basis, considering the property characteristics sustainable in the long term, normal local market conditions, based both on current and possible alternative uses. Such underwriting property value cannot be higher than its market valuation, defined as the price amount at which a property is expected to exchange, on the date of valuation, between a willing, knowledgeable and able buyer and seller, following proper and public marketing, executed within a reasonable time period considering the nature and type of the property, in a market presenting no abnormal obstacles to such transaction.

The property valuation shall be carried out by an independent, qualified and experienced property valuation expert, prior to the date the respective mortgage loan is assigned to the cover pool. Methodology should follow established approaches, such as the cost method, the income (yield) method, and the comparison method. Method choice should consider the property's specific characteristics as well as those of the local property market. The valuation should take the form of a written report including all methodological elements and necessary conclusions.

The valuation amount must be verified at least every three years, in case of residential properties, or annually, in case of commercial properties. To this effect the credit institution can make use of established indexation methodologies, which are subject of a detailed explanatory report and an opinion by an independent property valuation expert submitted to the Bank of Portugal.

Notwithstanding, the valuation amount should be reviewed by an independent, qualified and experienced property valuation expert whenever there are indications the property's market value might have declined considerably. In the case of mortgage loan amounts greater EUR 500,000, if backed by residential property, or greater than EUR 1 mln, in backed by commercial property (or, in any case, greater than 5% of the issuer's own funds), the underlying property value shall be reviewed by an independent valuer at least once every three years.

The valuation expert is deemed independent for as long as it is not in a position susceptible of affecting his otherwise unbiased judgement, namely if he has no specific interest in the property in question or any relationship, commercial or personal, with the borrower. Likewise, valuation won't be regarded as independent if compensation is somehow correlated with the property's valuation amount. Lastly, the valuation expert may belong to the issuer's organisation provided his action is fully independent from the credit underwriting process.

Regulation also dictates credit institutions should ensure proper diversification and rotation of property valuers. To that end they must keep an updated list of selected valuers, together with the criteria justifying such selection, as well as properties valued by these valuers. This list must be reported annually to the Bank of Portugal until the end of January each year, with reference to 31 December, indicating any changes from the last report.

Lastly and as stated above, the aggregated loan amounts secured on mortgages over the same property cannot present a loan-to-value (LTV) greater than the legal maximum of 80%, in the case of residential mortgages, or 60%, in case of commercial mortgages.

## **V. ASSET – LIABILITY MANAGEMENT**

The Portuguese covered bond legislation addresses covered bond coverage and asset-liability mismatch by imposing the following requirements:

- > the nominal value of mortgage covered bonds cannot exceed 95% of the cover pool's nominal value, considering both mortgage credits and eligible substitute assets, thus implying a legal minimum overcollateralisation of 5.26%;
- > the average maturity of covered bonds can never exceed the average maturity of mortgage credits and eligible substitute assets;
- > the net present value of covered bonds cannot exceed the cover pool's net present value, considering any derivative instruments in place; this needs to hold true with 200-basis-point upward and downward parallel shifts of the underlying yield curve.

For the purpose of the first coverage requirement above, legislation determines loans, deposits and covered bonds should be accounted by their nominal value plus accrued interest. Assets eligible for Eurosystem operations should be accounted by the lowest of its nominal value and that resulting from the relevant and applicable Eurosystem asset valuation rules, plus any accrued interest. ECB reference exchange rates apply whenever relevant.

Legislation also requires the total amount of interest payable to covered bond holders not to exceed the amount of interest collected from mortgage credits and eligible substitute assets. Loan collections not used in the purchase of new credits for cover pool replenishment can remain as substitute assets. Furthermore, issuers can contract a credit facility to provide for liquidity shortages, with counterparties with a minimum credit rating of "A-".

Issuers can use derivative contracts to hedge liquidity risk, as well as interest rate and exchange rate risk. These derivatives are specifically assigned to, and part of, the cover pool, and must be contracted with counterparties with a minimum rating of "A-". Hedging of exchange rate risk, when covered bonds and cover pool are in different currencies, is in fact compulsory. These counterparties will also benefit from the preferential claim over the cover pool alongside cover bond holders.

Part of the asset and liability management is ensuring all relevant legal requirements are met. Specifically, as soon as credit LTV ratios, or the above legal covered bond coverage and liquidity requirements, are not met, or there are indications they won't be, the issuer shall remedy the situation by assigning new mortgage credits, purchasing outstanding bonds in the secondary market or assigning other eligible substitute assets to the cover pool.

The Bank of Portugal establishes the terms whereby each issuer must deliver the specific and individual policies in written form for risk management, namely foreign exchange risk, liquidity risk, interest rate risk, counterparty risk and operational risk and any other procedures aimed at ensuring compliance with the applicable regulatory regime and with any devised risk limitation policies set by the issuer. It may also make use of its regulatory role to impose additional steps on this regard.

Covered bond legislation governs both mortgage covered bonds and public sector covered bonds, with essentially the same relevant requirements applying to both. Exception made for the nominal value of public sector covered bonds not exceeding 100% of the cover pool's nominal value, including eligible substitute assets.

## **VI. TRANSPARENCY**

Portuguese covered bonds issuers ensure data consistency and transparency by adopting the European Covered Bond Label Harmonised Transparency Template ("HTT"). This template also includes the Common National Transparency Template, based on ICMA's Covered Bond Investor Council template.

The HTT templates are typically published on a quarterly basis both on the issuer's institutional website and on the Covered Bond Label website<sup>2</sup>, complying with CRR information disclosure requirements and already essentially in line with relevant requirements of the recently approved Covered Bond Directive, which is now to be transposed into national legislation in due course.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Covered bond issuers must appoint a qualified independent auditor responsible for verifying compliance with all covered bond legal and regulatory requirements, in the best interests of covered bond holders – the "cover pool monitor". The cover pool monitor cannot therefore be in a susceptible position liable to affect their independent status, such as being closely associated or having more than 2% participation in the issuing entity, or having performed more than two consecutive mandates. The covered bond monitor will undertake an annual auditing exercise and produce a report indicating whether all legal and regulatory requirements are being observed. The issuer must submit that cover pool monitor report to the Bank of Portugal, who can then act upon any reservation or mention that might be deemed as cause of concern.

Without prejudice of the applicable provisions of the Portuguese Commercial Societies Code<sup>3</sup> (PCSC), the issuer must appoint a bondholders' common representative in order to represent the common best interests of bondholders, on both the issuer's mortgage or public sector covered bonds. The common representative can be an independent credit institution, or any other authorised entity based in the European Union, apart from those entities mentioned in the PCSC.

The Bank of Portugal and the Portuguese Securities Commission (CMVM) are responsible for banking and capital markets supervision. The law grants powers to the Bank of Portugal to regulate and supervise covered bond issuers. Issuers not complying with laws and regulations will be liable to fines and other sanctions and, ultimately, shall see their license to operate in the local banking and financial markets revoked.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Covered bond holders benefit from a special preferential claim (*privilégio creditório*) over all assets assigned to the cover pool for the redemption of due principal and interest. This preferential claim has precedence over that of any of the issuer's creditors, while mortgages that guarantee these credits prevail over any other real estate preferential claims. Portuguese covered bond legislation thus supersedes the national general bankruptcy regulation. This preferential claim is shared with the derivative counterparties whose contracts are part of the pool on a *pari passu* basis with bondholders. Consequently, their contracts are not expected to be called in case of insolvency of the originator.

In case of insolvency, dissolution or wind-up of the issuer ("insolvency event")<sup>4</sup>, the covered bond legislation establishes the cover pool shall be segregated from the insolvency estate of the issuer and will not form part of it until the full payment of any amounts due to covered bond holders, as well as to derivative counterparties and the common representative. Also, all amounts corresponding to payments under any asset in the cover pool will not form part of the insolvency estate of the issuer.

An insolvency event does not trigger an automatic acceleration of the covered bonds. However, covered bond holders are entitled to pass a resolution approving the immediate acceleration of the covered bonds by a majority of at least two thirds of the votes of the holders of covered bonds then outstanding.

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2 <https://www.coveredbondlabel.com/issuers/national-information-detail/19/>

3 Articles 355 and 359 of Código das Sociedades Comerciais

4 Under any applicable laws and regulations, including under Decree-Law No. 199/2006, Decree-Law No. 298/92, and/or (if applicable) under the Code for the Insolvency and Recovery of Companies introduced by Decree-Law No. 53/2004.

Upon an insolvency event the issuer presents a voluntary dissolution and wind-up plan to the Bank of Portugal<sup>5</sup> that will include the identification of the entity to undertake the management of the cover pool thenceforth ("cover pool administrator"). The cover pool administrator is thus appointed to (i) manage the cover pool allocated to the outstanding covered bonds and (ii) ensure that the payments of any amounts due to the holders of such covered bonds are made. This plan shall also describe the general framework and conditions under which those actions shall be taken. Otherwise, the Bank of Portugal can always revoke the issuer's licence to operate and appoint a cover pool administrator themselves.

The cover pool is then managed autonomously by the cover pool administrator, who should immediately prepare an opening balance sheet in relation to each autonomous portfolio and relevant bonds, supplemented by the necessary explanatory notes. It should perform all acts and deeds necessary for a sound management of the loan portfolio (and its guarantees) with the aim of ensuring a timely payment on the covered bonds. These may include selling credits, assuring servicing and all administrative procedures pertaining to these credits, managing relationship with the debtors, and undertake all modifying and extinguishing acts relating to their guarantees. The cover pool administrator must also carry out and keep updated a registry, in off-balance sheet accounts, the details of the cover pool in the terms set forth in the covered bond legislation.

On this premise the cover pool administrator shall provide for the liquidation of the cover pool for the benefit of covered bond holders and other cover pool preferential claimants, who will rank *pari passu* between them. If cover assets liquidation proceeds prove to be insufficient to make up for all due and payable amounts, for the remaining due amounts covered bond holders and derivative counterparties will rank *pari passu* with issuer's senior creditors in relation to all other the issuer's assets.

All assets such as mortgage loans, public sector loans and substitute assets, as well as derivative contracts assigned associated to covered bond programmes are held by the issuer in separated accounts ("cover register") and can be identified under a codified form. This information is deposited in the Bank of Portugal in the form of a code key. The Bank of Portugal regulates the terms and conditions by which the bondholders will have access to such key in case of an insolvency event.

The legal effect of this registration is to segregate those assets from the insolvent estate over which bondholders will have a special claim in case of an insolvency event. In this situation the assets pledged to one or more issues of mortgage bonds will be separated from the insolvent estate for the purpose of its autonomous management until full payments due to the bondholders have been met. Despite this, the law stipulates that timely payments of interest and reimbursements should continue. In that way, cover assets form a separate legal estate, a pool administered in favour of the covered bondholders and any other special claimant.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 CRR. Portuguese covered bonds meet the requirements of Article 129 CRR.

Credit institutions investing in covered bonds within the scope of the Portuguese jurisdiction qualifying under Article 129 of Regulation 575/2013 (CRR) can apply a 20% risk weighting. The risk-weighting of derivatives that are included in the cover pool will be 20%. Investment funds can invest a maximum of 25% of their own funds in a single issuer's covered bonds.

## **X. ADDITIONAL INFORMATION**

On market activity, the Portuguese 2020 covered bond market saw little in the way of new issuances. Santander Totta made two private placements of 750 mln each, one in March for five years, another in October for ten years, while Millennium bcp increased the outstanding amount of one of their fully retained issues for

5 Pursuant to article 35-A of the Credit Institutions General Regime.

an additional 2,000 mln. These have set the country's total issuance for 2020 at EUR 3,500 mln, one of the lowest levels since the Portuguese covered bond legislation was enacted, in 2006. The reasons behind this are widely known, and include the national banking sector's general comfortable liquidity position, a result of ECB's accommodative monetary policy and improved macro-context, compounded by the MREL instrument issuance requirements the national covered bond issuers are, and will be, subject to over the next few years.

Despite the low issuance, the total outstanding covered bonds at the end of the 2020 was EUR 38,950 mln, an all-time high, split among seven programmes of six issuers, all mortgage covered bonds except EUR 600 mln of BPI's EUR public sector covered bond programme. The Portuguese covered bond market is mostly one of 12-month soft-bullet maturity, yet conditional pass-through structures have gained some ground since 2015; there are two programmes – Novo Banco's and Montepio's – totalling EUR 7,800 mln of outstanding bonds falling under this category.

**Issuers:** NOVO BANCO, S.A., Banco BPI, S.A., Banco Comercial Português, S.A., Banco Santander Totta, S.A., Caixa Económica Montepio Geral, Caixa Geral Depósitos, S.A.

**ECBC Covered Bond Comparative Database:**

[https://www.ecbc.eu/framework/39/Mortgage\\_CB\\_%28Obriga%C3%A7%C3%B5es\\_Hipotec%C3%A1rias%29](https://www.ecbc.eu/framework/39/Mortgage_CB_%28Obriga%C3%A7%C3%B5es_Hipotec%C3%A1rias%29)  
[https://www.ecbc.eu/framework/38/Public\\_Sector\\_CB\\_%28Obriga%C3%A7%C3%B5es\\_sobre\\_o\\_Sector\\_P%C3%BAblico%29](https://www.ecbc.eu/framework/38/Public_Sector_CB_%28Obriga%C3%A7%C3%B5es_sobre_o_Sector_P%C3%BAblico%29)



COVERED BOND : NOVO BANCO, S.A. (1 pool) , Banco BPI, S.A. (1 pool) , Banco Comercial Português, S.A. (1 pool), Banco Santander Totta, S.A. (1 pool), Caixa Económica Montepio Geral (1 pool), Caixa Geral Depósitos, S.A. (1 pool).

### **3.31 ROMANIA**

By Romanian Association of Banks, Adrian-Stefan Sacalschi (Takarék Mortgage Bank) and Nicoleta Ruxandescu (Alpha Bank Romania)

#### **I. FRAMEWORK**

The Romanian Covered Bond Legislation includes Romanian Covered Bond Law no. 304/2015 ("CB Law") and Romanian Covered Bond Regulation No. 1/2016 ("CB Regulation") issued by the National Bank of Romania ("NBR"). The Romanian Covered Bond Legislation has been enacted with a view to, *inter alia*, provide a legal framework that is aligned with the best practices in this field at the European level and to ensure the development of the market for such instruments in a prudent and supervised manner.

The Romanian covered bond legislation is currently being amended to be in line with the EU Covered Bond Directive. The approach chosen by the regulatory bodies is to repeal Law 304/2015 and issue a new one. The National Bank of Romania elaborated a first draft of the law which is currently with the legislative initiator, i.e. the Ministry of Finance, for launching public consultation followed by approval procedures in the Parliament.

Alpha Bank opened the covered bond market in Romania in April 2019 when it established its EUR 1 billion Global Covered Bond Program. The first issuance of EUR 200 million took place on May 16<sup>th</sup>, 2019. The issue is currently listed on the Luxembourg Stock Exchange and the Bucharest Stock Exchange.

#### **II. STRUCTURE OF THE ISSUER**

The issuer can only be a credit institution, as defined by the Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms, which falls under one of the following categories provided for in the Government Emergency Ordinance no. 99/2006 on Credit Institutions and Capital Adequacy, approved with amendments and supplements by Law. No. 227/2007, as amended and supplemented:

- > banks,
- > credit co-operative organisations, except for credit co-operatives, and
- > mortgage banks.

The issuer must obtain an issuance approval from the National Bank of Romania (Art. 4 of the CB Law). The approval is valid for 15 months and within this timeframe and the approved issuance framework, the issuer has the possibility to make more subscription offers (Art. 7(2) of the CB regulation). The conditions for the approval of an issuance framework are set in art. 3-9 of the CB Regulation. The Central Bank is supervising the covered bond issuance activity for fulfilment of the prudential requirements.

Pursuant to the Covered Bond Law, the issuer holds the assets on its balance sheet. A direct legal link between single cover assets and covered bonds does not exist. All obligations from bonds are obligations of the issuing bank as a whole. In the event of insolvency, the cover pool is segregated by law from the general insolvency estate and is reserved for the claims of bondholders.

Asset servicing may be outsourced, but for covered bonds it is expressly regulated only in case of the issuer's bankruptcy.

The covered bonds are direct and unconditional obligations of the issuer. The claims of the holders of covered bonds are secured by a first rank security over the cover assets, which are segregated from the rest of the issuing bank's patrimony, in case of bankruptcy. Real estate receivables, eligible financial assets and financial derivatives securing the mortgage bonds are structured by the issuer into a single cover pool.

The CB Law imposes asset encumbrance limits: the total value of the cover pool cannot exceed 4%, 6% or 8% of the issuer's total assets, depending on the metrics defined by the National Bank of Romania, such as capital, liquidity, asset quality.

### **III. COVER ASSETS**

The covered bonds issued under the CB Law can include mainly mortgage loans (i.e. residential or commercial mortgage loans) in the cover pool and, in a smaller proportion, eligible financial assets. The cover pool must be replenished with other mortgage loans if some of the pledged loans don't fulfil the eligibility criteria anymore.

Eligible financial assets (besides mortgage loans) will be used for the substitution of the assets included in the cover pool only if the issuer has no other mortgage loans that could be used for such purpose and only up to maximum 20% of the cover pool. The eligibility criteria for these assets are set forth in art. 30(1) of the CB Regulation.

The issuer can include in the cover pool, apart from real estate receivables and financial assets, financial derivatives, subject to conditions set out in art. 14 and art. 18 (8) of the Covered Bond Law. Derivatives can be included in the cover pool only for the purpose of hedging interest rate risk and foreign currency risk. Financial derivatives may be included in the cover pool only if the agreements related thereto do not contain a clause according to which the bankruptcy or the resolution of the issuer is deemed to be a termination event. The CB Regulation issued by the National Bank has further details in art. 31 on the conditions which have to be fulfilled

by the derivatives included in the cover pool.

The CB Law stipulates at art. 18 that the mortgage loans must fulfil several eligibility criteria in order to be included in the cover pool:

- > The funds under the mortgage loans have been made available in full to the beneficiaries of the respective loans;
- > The mortgage loans have been granted for real estate investment purposes in Romania or in the European Union or European Economic Area member states, or for real estate investment purposes in third countries. However, in the latter case, the threshold of real estate receivables which can be included in the cover pool cannot exceed 10% of the real estate receivables included in the pool;
- > The loans should not be subject to any mortgage or legal or contractual privilege;
- > The rights in rem created to secure the repayment of the real estate receivables have been created solely in favor of the issuer;
- > The mortgaged real estate must hold an all-risk insurance for an amount at least equal to the market value of the real estate as of the execution/renewal of the insurance policy, the rights under the insurance agreement have been assigned in favor of the issuer and the insurance has been maintained valid throughout the secured period of the mortgage bonds issues;
- > At the time of its inclusion in the cover pool, each loan must not incur delayed payments, and subsequently, it should not record a delay in payment of more than 15 days while being part of the cover pool;
- > The debtor under such loan must have been notified, pursuant to the provisions of art. 10 par. (1) of the CB Law, that the loan is to be included in the cover pool which will serve as security for the issuance of mortgage bonds;
- > The debtor of the relevant loan has not notified the issuer that it maintains the right to claim compensation against the issuer (right to set-off the issuer), within 45 days of receipt of the notice above, according to art. 10 par (2) of the Law;

- > Throughout their inclusion in the cover pool, the loans must comply with any potential additional eligibility conditions provided in the prospectus or, as applicable, in the offering document attesting the conditions of the issue.
- > The cover pool shall include the mortgage loans for which the ratio, determined at the date each loan is granted, between the nominal value of each loan and the reference value of the immovable property serving as collateral does not exceed 80% for the residential real estate loans and 60% for other real estate loans.
- > The value of loans secured with mortgages over land without buildings and of those secured with mortgages over immovable property under construction cannot exceed the threshold established by the CB Regulation, i.e. 10% of the accounting value of the cover pool.
- > The accounting value of the loans against a single debtor (either separately or together with the claims of the Issuer against affiliated persons of the debtor), must not exceed 5% of the accounting value of the cover pool.
- > Re-evaluation of immovable properties securing real estate receivables included in the cover pool is made in accordance with art. 208 par. (3) of the Regulation (EU) no. 575/2013.
- > Financial derivatives may be included in the cover pool only if the agreements related thereto do not contain a clause according to which the bankruptcy or the resolution of the issuer is deemed to be a termination event.
- > Issuers may establish additional eligibility conditions in their internal regulations, stricter than those specified in par. (1) to (8) of the CB Law and will be made public through the prospectus or, as applicable, are mentioned in the offering document attesting the conditions of the issue.

The CB Law stipulates that the cover pool is dynamic. The replacement/supplementation of the mortgage loans included in the cover pool is compulsory when certain mortgage loans no longer comply with the eligibility criteria, have become non-performing in the meaning of the CB Law, the weighted average maturity of the mortgage loans included in the cover pool decreases below the weighted average maturity of the corresponding covered bonds, or the value of the mortgage loans included in the pool declines below the thresholds provided by the CB Law (as required by art. 8, 13 and 16).

The value of the residential loans included in the cover pool cannot exceed 80% of the value of the issuer's total residential loans that are eligible for the cover pool. For commercial loans this ratio is 60%.

#### **IV. VALUATION AND LTV CRITERIA**

Property valuation is regulated and is required to be undertaken by an authorised real estate appraiser. Details about the valuation process and the qualifications of evaluators are regulated by the Romanian Association of Evaluators (ANEVAR).

Re-evaluation of immovable properties securing real estate receivables included in the cover pool is made in accordance with art. 208 par. (3) of the Regulation (EU) no. 575/2013. The asset monitor will check the fulfilment of this issuer's obligation.

#### **V. ASSET – LIABILITY MANAGEMENT**

The CB Law stipulates an asset coverage test, an overcollateralisation test, and a liquidity coverage test. Under the asset coverage test, the value of the cover pool must at all times exceed the value the bonds and any other obligations to be paid from the cover pool. In calculating the value of the cover pool, the receivables are weighted according to the lower of: the accounting value of that receivable; the value of the principal of that mortgage together with any previous mortgage rights; and 80% of the value of that mortgaged property, in the case of residential loans, or 60% of the value of that mortgaged property in the case of commercial loans.

Under the overcollateralisation test, the net present value of the outstanding assets must exceed at all times 102% of the net present value of the bonds (and other obligations that are paid from the cover pool). The overcollateralisation test is calculated under certain stress scenarios as well, where the net present value of assets must be at least 100% of the net present value of obligations. The stress tests include: shocking the yield curve (+/-) by 350 basis points, shocking the EUR-RON exchange rate (+/-) by 35.5%, stressing the level of arrears in the cover pool, taking into account a decrease in real estate prices and the loss given default in real estate enforcements.

Under the liquidity coverage test the issuer must calculate liquidity deficits that might arise over the following 180 days and cover them with liquid assets eligible for liquidity operations with NBR.

The liquidity coverage test is performed daily, while the overcollateralisation tests under stress scenarios are performed at least monthly.

## **VI. TRANSPARENCY**

Issuers shall prepare and publish on their own websites quarterly reports, no later than the 15<sup>th</sup> day of the month following the end of the quarter for which they are drafted, as regards the risks related to the cover pool, the total volume of the issued mortgage bonds and the structure of the cover pool, including the nominal value of the receivables in the pool, their residual value and the structure of the maturities of the receivables in the pool.

In addition, the issuer shall make available on its website updated information from the cover pool registry, for each loan included in the cover pool and update it regularly.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Under the CB Law, the activity of a covered bond issuer is supervised by the NBR. As a mandatory pre-requisite for the issuance of mortgage bonds, an asset monitor (in Romanian "agent") must be appointed by the issuer, as independent auditor of the cover pool. The agent has to be authorised by the NBR.

The agent's main role is to monitor the cover pool, to certify the issuer's reports to NBR and to report its findings on the observance of the legal requirements to NBR. Its monitoring obligations shall be performed regularly, based on the documentation provided by the issuer. The agent has to observe the issuer's compliance with the law and prospectus requirements. Based on the documentation provided by the issuer, the agent shall issue a certificate attesting the issuer's compliance with the provisions of the law and with the prospectus regarding the cover pool structure.

A representative of the covered bondholders must be appointed by the bondholders in the first covered bondholders meeting, his role being to exercise, in its own name, but on the account of bondholders, the bondholders' rights, except for the voting rights.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The issuer has the obligation to keep an internal cover register, which allows for the identification of the cover assets. Registration in the cover register reflects the structure and dynamic of the portfolio at any time throughout the life of the issue. The cover register shall have separate sections for each category of assets included in the cover pool, i.e. real estate receivables, eligible financial assets and derivatives. For each loan in the cover pool, the registry shall include at least the identification number and the value of the amount borrowed plus the interest to be received throughout the life of the loan, calculated at the origination date. The cover register is kept by the issuer and subject to checks by the agent.

Pursuant to the Romanian Covered Bond Legislation, the issuer is required to create a movable mortgage over the cover pool assets pursuant to the terms of a movable mortgage agreement to be attached to the base prospectus. The movable mortgage will be registered with the National Register in the name of the asset monitor (in Romanian, "agent"), but on behalf of the covered bondholders, prior to the offering of the covered bonds for

subscription, by means of a global registration form. The movable mortgage will be transferred in the name of the covered bondholders' representative after its appointment by the general meeting of the covered bondholders. According to the Romanian Covered Bond Law, such movable mortgage is not required to be registered in the relevant land register of the immovable assets securing the loans.

### **Asset segregation**

By registration of the movable mortgage over the cover assets and the entry into the internal cover register of the mortgage loans or other assets included in the cover pool, such assets are segregated from the other assets of the issuer. In case of issuer's bankruptcy, the segregation of the cover assets from the insolvent estate of the issuer is thus a consequence of the movable mortgage over the cover assets and the operation of the CB Law.

In order to fulfil all the obligations of the issuer towards bondholders under the CB Law the cover pool securing the mortgage bonds represents an autonomous estate, separate from the estate of the issuer subject to the liquidation procedure, and shall not be subject to any liquidation procedure of the issuer's assets. The sale-purchase agreements concluded in breach of these legal provisions are null and void (art. 48 of the CB Law).

In case of an event of default under the cover bonds programme, the NBR can appoint a cover pool administrator, acting under the NBR's supervision.

The Romanian Covered Bond Law also provides that, in case bankruptcy proceedings are initiated against the issuer, the syndic judge shall appoint, following consultations with the NBR, a cover pool administrator upon whose appointment the mandate of the cover pool administrator appointed by the NBR shall terminate by operation of law. At any stage of the bankruptcy proceedings, the syndic judge may replace the cover pool administrator for justified reasons, with the consent of or upon motion made by the NBR.

Upon appointment of the cover pool administrator, the elements of the cover pool, registered with the internal cover pool register and the amounts collected in relation to them by the issuer starting with the date of such an appointment, shall be under the exclusive control of the cover pool administrator.

For the purpose of satisfying the obligations towards bondholders in the amount and at the dates provided in the prospectus or, as applicable, in the offering document attesting the conditions of the issue and of the distribution of the amounts owed to them, the cover pool administrator may:

- > continue to collect the amounts owed by the debtors of the cover pool, including by way of restructuring or enforcement of receivables in the event of default by the relevant debtors;
- > transfer the obligations undertaken by the issuer to bondholders to another issuer, together with the related cover pool; and
- > perform any other activities necessary for the satisfaction of the receivables included in the cover pool.

The cover pool administrator is bound to consult the NBR prior to committing to perform the following operations:

- > postponement of mortgage bonds maturity;
- > partial or total sale of the cover pool;
- > procurement of new financing to cover the temporary liquidity deficit based on the cover pool securing the mortgage bonds; and
- > acceleration of mortgage bond payments.

### **Preferential treatment of covered bond holders**

According to Article 29(8) of the Romanian Covered Bond Law, no other creditor of the issuer may initiate enforcement procedures in relation to the cover pool or any part thereof before the covered bondholders.

Pursuant to the movable mortgage, the covered bondholders shall have the right to satisfy their claims against the issuer with priority over any other creditor, except the hedging counterparties under any financial derivative instruments included in the cover pool which shall rank pari passu with the covered bondholders. In addition, the Romanian Covered Bond Law provides that the cover pool administrator, the asset monitor, as well as lenders that have financed the issuer's temporary liquidity shortfall shall enjoy priority over the covered bondholders in satisfying their claims against the issuer with respect to the cover pool.

There are no specific regulations expressly addressing the issue of voluntary overcollateralisation in insolvency. It may be argued that voluntary overcollateralisation is part of the cover pool with all legal consequences regarding segregation in the event of bankruptcy applicable to the respective pool.

#### **Sale and transfer of mortgage assets to other issuers**

The cover pool administrator may in accordance with art. 46 and 47 of the CB Law propose to the approval of the general meeting of bondholders the acceleration of the payment of the mortgage bonds and, in this respect, the assignment of the receivables to a third party, that is permitted by law to grant mortgage loans as a professional activity.

The distribution of the amounts resulted from the assignment of receivables shall be made in the following order of preference:

- > receivables representing expenses incurred by the pool manager with the sale, its remuneration and the remuneration of the trustee;
- > receivables under the financing granted to the issuer with the view to covering the temporary liquidity deficit;
- > receivables resulting from the holding of mortgage bonds, pro rata, irrespective of the seniority and maturity of the mortgage bonds issue and receivables held by counterparties under the agreements underlying the financial derivatives included in the cover pool; and
- > receivables of the issuer's creditors, according to art. 49 par (3) of the CB Law, not paid in full upon the temporary closing of the bankruptcy proceedings.

If the amounts resulting from the assignment of receivables are insufficient to pay the obligations of the issuer, as recalculated to date, to the bondholders, for the remaining balance they may satisfy their claims against the issuer's estate, together with the other unsecured creditors.

#### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 of the Capital Requirements Regulation (CRR).<sup>1</sup> The covered bonds issued under the Covered Bond Law comply with Article 129(1) CRR and fulfil the UCITS 52(4) criteria. The law requires such bonds to be issued by a credit institution, which is subject by law to special public supervision designed to protect bondholders (i.e. supervision by the National Bank of Romania and respectively by the capital markets supervision) and provides coverage by law of the claims attaching to the bonds in the event of failure of the issuer, on a first priority basis for the reimbursement of the principal and payment of the accrued interest.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/99/Obligatiuni\\_Ipotecare\\_-\\_Mortgage\\_Covered\\_Bonds](https://www.ecbc.eu/framework/99/Obligatiuni_Ipotecare_-_Mortgage_Covered_Bonds)

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

### **3.32 RUSSIA**

By Tim Lassen, PFP Group Ltd., Representative Office, Moscow

#### **I. FRAMEWORK**

This article will give an overview over the current Russian legal framework for mortgage obligations. Legal basis is the Law on Mortgage Securities<sup>1</sup>. This law is supported by rules in the Mortgage Law, the Bankruptcy Law, and the Securities Market Law.<sup>2</sup>

In addition, the Central Bank of the Russian Federation (CBRF) issued the instruction "On mandatory standards and additives"<sup>3</sup> and the regulation "On securities issuance standards"<sup>4</sup>. The former Federal Financial Markets Service (FSFR) released:

- > The Mortgage Cover Determination Order<sup>5</sup>,
- > A joint order containing (i) the Special Depositor Decree and (ii) the Register Maintenance Rules<sup>6</sup> and
- > The Mortgage Cover Administrator<sup>7</sup>.

Further rules are in general regulations of the CBRF in its role as regulator of the financial market<sup>8</sup>.

#### **II. STRUCTURE OF THE ISSUER OF COVERED BONDS**

The Russian Law on Mortgage Securities foresees two types of "mortgage obligations"<sup>9</sup> (Art. 7, sec. 1<sup>10</sup>): obligations<sup>11</sup> issued (i) by a credit organisation (covered bonds) or (ii) by a SPV ("mortgage agent") (MBS)<sup>12</sup>.

Obviously, the mortgage obligations issued by credit organisations, are oriented on the European covered bond model, those mortgage obligations issued by SPVs on the MBS model.<sup>13</sup>

1 Federal law dated 11 November 2003 No 152-FZ "On Mortgage Securities", latest amendment: Federal law dated 08 December 2020 No. 418-FZ (SZ RF, 14.12.2020, no. 50 (part III), item 8063).

2 The legal environment, in comparison to other countries and to the MBS model is described in Lassen, Tim: Banking mortgage securities (Covered Bonds) in Russia and abroad (Bankovskiye ipotechnye tsennye bumagi (Covered Bonds) v Rossii i za rubezhom); Statut Publishers, Moscow 2019. Pledge backed securities have a long history in Russia, going back to the early modern ages: Rybalov, A. O.: Oborot zakladnych kabal v russkom prave XVI v. (Turnover of Pledge Prescriptions in Russian law in the 16<sup>th</sup> Century); Herald (Vestnik) of Civil Law, no. 3 2008 volume 8; p. 90 – 106. See also: Encyclopedia of Russian Securitization 2021; 8<sup>th</sup> ed. Saint Petersburg 2021.

3 The Instruction of the CBRF dated 31 March 2004, No 112-I "On mandatory requirements for credit organisations, issuing securities with mortgage cover" has been replaced by the Instruction of the Central Bank of the Russian Federation of November 29, 2019 No. 199-I "On mandatory standards and additives to the standards of capital accuracy of banks with a universal license"; registered with the Ministry of Justice 27.12.2019 no. 57008, published: Herald (Vestnik) of the Bank of Russia, No. 11 - 12, 30.01.2020, in force since 01 April 2011 (Instruction CBRF No. 199-I).

4 Dated 19 December 2019 No. 706-P, registered with the Ministry of Justice 21 April 2020 No. 58158; published: Herald (Vestnik) of the Bank of Russia, No. 37-38, 26.05.2020 (Regulation CBRF No. 706-P).

5 Order dated on 1 November 2005 No 05-59/pz-n "On confirmation of the Decree on the method of determination of the mortgage cover".

6 Order dated 01 November 2005 No 05-60/pz-n "On confirmation of the Decree on the activity of the special depositary for the mortgage cover and the Rules of the maintenance of the register of the mortgage cover".

7 Order dated 15 December 2009 No 09-57/pz-n "On confirmation of the Decree on data reporting of the administrator of the mortgage cover and the Decree on data reporting of the specialised depositor of the mortgage cover".

8 See ECBC Fact Book 2017, p. 437, footnote 6.

9 Language of the Law: "Obligations with mortgage cover".

10 Law citations without link are citations of the Law on Mortgage Securities.

11 "Housing mortgage obligations" are a special type of mortgage obligations (in Russian *zhilishchnaya obligatsiya s ipotechnym pokrytiem*): Their cover pool consists only of claims, secured by mortgages over housing premises (Art. 3 sec. 5). "Mortgage obligations secured by a pledge of rights of claim of a participant in shared construction" (*obligatsiya s ipotechnym pokrytiem, obespechennoy zalogom prav trebovaniya uchastnika dolevogo stroitel'stva*) are secured by a pledge over a contract for participation in shared construction that meets the requirements of Federal Law of 30 December 2004 no. 214-FZ (art. 3 sec 3.1).

12 Another mortgage security under the Law is the "mortgage participation certificate" (Art. 17 – 31), an instrument similar to investment fund certificates. Due to their different structure in this article we will not look after them. By Law No. 418 (see footnote 1) the possibility to issue new "mortgage participation certificates" has been abolished.

13 Cover rules for Covered Bonds and MBS are nearly the same. The issuing SPVs ("mortgage agents", art. 8) are described in detail in the ECBC Fact Book 2011, p. 413 and 2015, p. 393.

For new issues (new series of issues) new cover pools need to be set up. The cover pool for every issue can be modified in cases, stipulated by the law, to ensure that there is always enough cover for the outstanding mortgage securities.

### **Credit organisations (Art. 7, sec. 2)**

A credit organisation has to comply with the Banking Law and the rules, set up by the Central Bank for credit organisations. If the credit organisation does not fulfil the statutory requirements, the licence can be revoked (Art. 20, sent. 1, no 10 of the Banking Law).

The CBRF has set up a regulation<sup>14</sup> for the minimal ratio between the volume of the cover pool and the volume of the issued mortgage obligations (N18): 100% (pt. 10.1 of the Instruction CBRF No. 199-I).

For credit organisations the excess amount of the cover pool shall not be more than 20% (Art. 13, para. 3, sec. 2).<sup>15</sup>

### **Protection of terms**

Due to Art. 6, the words "obligation with mortgage cover" (in Russian *obligatsiya s ipotechnym pokrytiem*), mortgage participation certificate (*ipotechnyj sertifikat uchastiya*), mortgage cover (*ipotechnoe pokrytie*), mortgage agent (*ipotechnyj agent*) and "mortgage specialized organisation" (*ipotechnaya spezializirovannaya organisatsiya*)<sup>16</sup> may be used only for the purposes of the Law on Mortgage Securities.

## **III. COVER ASSETS**

Eligible assets under the Russian Law on Mortgage Securities are mortgage secured claims under a loan or credit agreement, including interest (Art. 3, sec. 1) or pledged claim rights of a participant in shared construction<sup>17</sup> (art. 3 sec 3.1 and 7)<sup>18</sup>.

Eligible are also money in Russian and foreign currency, state bonds and real estate (Art. 3, sec. 1).

Requirements for eligible mortgage secured claims are:

- > The mortgage shall content a prohibition on sale of the mortgaged property by the mortgagor without consent of the mortgagee (Art. 3, sec. 2, pt. 2).

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14 On the bases of Art. 7, sec. 2.

15 Banks enjoying only a basic banking licence are allowed to run capital market operations with mortgage securities (pt. 1 sec. 5 Direction of the CBRF dated 27.11.2018 no. 4979-U (registered by the Ministry of Justice 19.12.2018, no. 53056, published Herald (Vestnik) of the CBRE, no. 97, 28.12.2018) in connection with Art. 24 sec 5 Federal Law dated 02.12.1990 no. 395-1 "On Banks and Banking Activities" (SZ RF, 05.02.1996, no. 6, item. 492). Art. 5.1 Banking Law sets limitations for activities of banks with basic license.

16 "Mortgage specialized organization" is another allowed name for "mortgage agent" (Art. 8, sec. 1, para. 5).

17 Arising from a contract for participation in shared construction that meets the requirements of Federal Law of 30 December 2004 no. 214-FZ "On participation in shared construction of apartment buildings and other real estate and on amendments to some legislative acts of the Russian Federation". Introduced into the Law on Mortgage Obligations by Art. 1 of the Federal law dated 02 August 2019 No. 261-FZ.

18 These "pledged claim rights" are eligible, if (art. 3 sec 3.1)

- the contract of participation in shared construction fits to the Federal Law dated 30 December 2004 no. 214-FZ;
- the contract of participation in shared construction contains a clause, by which the pledgor cannot give an order to the bank, holding the pledged account, where as a result of fulfilling this order, the amount of money on the account will be lower, than an amount equivalent to the pledged claim rights.
- pledged claim rights are only eligible up to 80% of all pledged claim rights under the contract. This amount has to be appraised by an independent valuer;
- item of the pledged claim rights can only be money claims;
- share of secured claim rights shall not be more than 40% of the cover pool.
- When the pledged claim right converts into a mortgage secured claim, this mortgage secured claim has to fit to the Law on Mortgage Obligations to be eligible. In particular the mortgaged real estate object has to be insured not later than 6 month state registration of its ownership. The pledged claim right has to be proofed by (art 3 sec 7):
- Excerpt from the Unified State Register of Immovables, showing the registration of the contract of participation in shared construction;
- Credit of loan agreement, from which the pledged claim right is origination;
- A document of transfer of the creditors and pledgees rights (if any).

- > The property has to be insured to the benefit of the mortgagee for the whole term of the loan to an amount not less than the mortgage secured claim (Art. 3, sec. 2, pt. 3).
- > The share of mortgage secured construction claims is limited to 10% of the cover pool (Art. 3, sec. 3, para. 3). For housing mortgage obligations, mortgage secured construction claims are not eligible (Art. 3, sec. 3, para. 1, sent. 2).
- > Claims, secured by a second ranking mortgage are eligible, as far as they do not exceed the LTV limit of 70% (Art. 3, sec. 3, para. 2).
- > In the moment of distribution (razmeshcheniye) or delivery (vydacha) of the mortgage obligations the cover cannot sustain of mortgage secured claims, pledged to secure other obligations (Art. 3, sec. 3, para. 1).

One asset may only be used for one cover pool (Art. 3, sec. 5).

The Federal Law dated 01 May 2019 No. 76-FZ introduced additional rules for cover assets (art. 13 sec. 7; 14 sec. 1 para 4): changes to the Consumer Credit Law allow under certain circumstances for "mortgage holiday" – for a time period up to 6 months a consumer may take "holiday" from paying for the mortgage. After this period he will step in at the same stage of credit, where he took holiday. This shall not be seen as a deterioration of the cover quality or as a breach of cover rules. Further similar rules are introduced by art. 1 in connection with art. 6 and 7 of the Federal law dated 03 April 2020 No. 106.

In Moscow a state project for renovation of old buildings has started. Part of this program is the relocation of the residents of such buildings to newly built houses and demolition of the old building. If a resident as owner has mortgages his flat in the old building the Federal law dated 1 July 2017 No. 141-FZ sets – for this special case – a mechanism to transfer the mortgage to the new flat of the resident. Within six months from the change of the mortgage object the mortgagor has to insure the flat against loss and damage. Otherwise, the claim secured by this mortgage has to be deleted from the cover register (art 3 sec 2.1). As valuation – as a market valuation might not be available – the official cadastre value may be used (art 3 sec 2.2). This possibility is now a common rule in the Mortgage law (art. 20 sec 2 para 4; 41.1), not only for Moscow.

#### **IV. VALUATION AND LTV CRITERIA**

Due to art. 3, sec. 2, para. 2, the LTV limit is 80% of the market value of the property. If a second ranking mortgage is used for cover, the LTV limit is 70%<sup>19</sup> of the market value (Art. 3, sec. 3, para. 2). In both cases, the valuation has to be made by an independent valuer<sup>20</sup>.

The Law does not contain special regulations on valuation for the purpose of mortgage securities.

#### **V. ASSET-LIABILITY MANAGEMENT**

Art. 3, sec. 4 stipulates that the amount of the cover is defined by summing up the mortgage secured claims, amount of money in the cover and value of other assets. Details are set up by the FSFR in the Mortgage Cover Determination Order.

The following claims shall not be encountered by summing up the mortgage cover:

- > No payment made on the claim for more than six month;
- > Loss of the mortgage object, including if the mortgage was declared void by a court;
- > Secured obligation declared void by a court;
- > Bankruptcy of the debtor; and,

19 Including the first ranking mortgage.

20 The valuers' profession and independence of the valuer is regulated in the Valuation law.

- > No insurance of the mortgage object for more than 6 month;
- > The cover asset does not fit to the general rules for eligible claims; cover assets can be replaced by other assets (Art. 14, sec. 1; Art. 3, sec. 2 and 4).

For proper performance of the obligations under the mortgage bonds<sup>21</sup> the amount of the cover pool for the whole maturity of the bonds shall not be lower than the aggregate outstanding nominal value of the bonds (Art. 13, sec. 2, para. 2, sent. 1).

One cover pool can secure two or more tranches of mortgage obligations (Art. 11, sec. 2, para. 1; Art. 13, sec. 2). In this case the rules on calculation of the necessary cover for one tranche apply similarly (Art. 11, sec. 2, para. 1). If mortgage securities are issued in several tranches on the bases of one cover pool, the volume of the cover pool has to be either not less than the nominal value of each tranche together with other tranches with similar or foregoing ranks or at least not less than the amount of the mortgage cover, set up in the decision on issue of covered bonds of the respective and the foregoing ranks (Art. 13, sec. 2, para. 3). Among the two or more tranches the issuer may define an order of priorities: The performance of claims of one tranche is only allowed after proper performance of the claims of the higher ranking tranche(s) (Art. 11, sec. 2, para. 2 and 3). The rule, that for all tranches at any time the cover rules are fulfilled, can be excluded for the junior tranche by the decision on the issue (Art. 11, sec. 2, para. 1; Art. 13, sec. 6).

Money received from the repayment of the mortgage secured claims has to be included into the cover pool as far as this is necessary to fulfil the legal stipulations on the volume of the cover pool (Art. 13, sec. 4). Only at the moment of formation of the cover pool, it has to sustain for 100% of mortgage loans. After issuing the bonds, due to amortisation of the cover pool, this share will reduce. To avoid the consequence of necessary prepayment of the issue, and the risk that potential new cover mortgage loans will not fit to the parameters, the money from regular repayments of the mortgages has to be included into the cover pool.<sup>22</sup>

The mortgage securities' holders have the right to claim for prepayment of the mortgage securities in the following cases (Art. 16, sec. 1): Breach of the rules regarding:

- > Volume of the cover pool;
- > Replacement of cover assets;
- > Proper fulfilment of obligations under the mortgage securities;
- > The issuer is active in fields not allowed for it; and,
- > Other reasons stipulated by the decision on issuing mortgage obligations.

A time frame to claim for prepayment has to be set up in the decision of the issue and shall not be less than 30 days from discovery or disclosure by the issuer of the prepayment right to the mortgage securities' holders (Art. 16, sec. 3, sent. 1). After this term the right to claim for prepayment ends (Art. 16, sec. 1, sent. 2). If the prepayment right arose in connection with a breach of the rules for the volume of the cover pool and/or the proper fulfilment of obligations under the mortgage securities as described in Art. 13, the right to claim a prepayment ends on the date of discovery or disclosure of information by the issuer of elimination of the breaches (Art. 16, sec. 3, sent. 2).

The issuer has to inform the mortgage securities' holders, that the right to claim for prepayment has arisen, the value of the securities, the procedure of prepayment and the termination of this right (Art. 16, sec. 2).

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<sup>21</sup> In Russian "nadlezhashchoe ispolnenie obyazatel'stv po obligatsiyam s ipotechnym pokrytiem".

<sup>22</sup> See pt. 5 Explanatory Memorandum of the authors of the draft dated 19 August 2011.

## **VI. TRANSPARENCY**

The Law on Mortgage Securities stipulates a wide range of publishing information on the mortgage obligations by the issuer (Art. 37 – 41). In addition to the main rules according to the Securities Market Law (Art. 37, para. 1; Art. 40, sec. 1), important information is an accounting report on performance of the cover assets (Art. 40, sec. 4, para. 2). Credit organisations issuing mortgage obligations have special reporting duties to the Central Bank (Art. 7, sec. 1, para. 3; pt. 3.1 – 3.5 of the Mortgage Cover Mandatory Requirements Instruction).

Main points for publishing information are:

- > If the mortgage obligations are rated by a rating agency, this rating has to be published (Art. 37, para. 2).
- > Interested persons have the right to get knowledge of the cover register (Art. 39, para. 1).
- > The regulator set up further special rules for mortgage obligation issuers in the general regulations on disclosure of information<sup>23</sup>.

## **VII. COVER POOL MONITOR, COVER REGISTER AND BANKING SUPERVISION**

### **Cover pool monitor**

The cover pool is controlled by a cover monitor (the “specialized depositor of the mortgage cover”<sup>24</sup>), Art. 33, sec. 1. The cover monitor has to be a commercial organisation<sup>25</sup>, licensed for (i) activity as special depositor for investment funds, share investment funds and non-state pension funds as well as for (ii) performance of depositary activities on the securities’ market (Art. 32, para. 2). The FSFR has published the Special Depositor Decree.<sup>26</sup>

The duties and tasks of the cover pool monitor are described in the ECBC Fact Book 2012, pp. 418 – 419.

### **Cover register**

Cover assets have to be registered in a “register of mortgage cover”<sup>27</sup> (Art. 5). The FSFR has adopted Register Maintenance Rules<sup>28</sup>.

Details are described in the ECBC Fact Book 2012, pp. 419 – 420.

### **Supervision**

Since 2013 the whole financial and banking system is supervised by the Central Bank of the Russian Federation.

Concerning mortgage securities, the state regulation of issuing mortgage securities (Art. 42 – 46) as well as the supervision of banks, issuing mortgage securities, is done by the Central Bank (Art. 7, sec. 2).

### **Issuing of mortgage obligations**

For details of this process see ECBC Fact Book 2012, pp. 420 – 421.

For issuing securities, Russian law foresees a five-steps process<sup>29</sup>: (i) Taking the decision on issue, (ii) approval of the decision, (iii) state registration of issue, (iv) placement of securities and (v) state registration of the report or notification on results of the issue. For these general steps, the CBRF has set up special requirements

<sup>23</sup> Statute on Disclosure of Information by the Issuers of Issuing Securities (confirmed by the Bank of Russia, 30..2014, No. 454-P)(registered by the Ministry of Justice, 12.02.2015, No. 35989; published: Herald (Vestnik) of the Central Bank, No. 18-19, 06.03.2015)(here following: Statute CBRF No. 454-P). Special rules for mortgage securities are foreseen in Section VIII, chapter 76 – 78, Annex 2 Part B pt. 8.12.3 and 9.4.1, Annex 3 Part B pt. 8.4.1.

<sup>24</sup> In Russian “spetsializirovannyj depozitarij ipotechnogo pokrytiya”.

<sup>25</sup> Not affiliated with the issuer (Art. 33, sec. 3, para. 2).

<sup>26</sup> In the letter „On procedure of work of the specialized depositor“ dated 30.08.2017 no. 54-2-3-5/1943 the CBRF gave some explanations regarding the duties of the cover pool monitors.

<sup>27</sup> In Russian “reestr ipotechnogo pokrytiya”.

<sup>28</sup> The cover register contains information on the mortgage claims on the loan-level basis (Art. 5).

<sup>29</sup> Art. 19 Securities’ Market Law; Pt 1.1 Statute CBRF No 428-P. The CBRF prepared a new Statute “On standards of issuing securities” (19.12.2019, no. 706-П), which has not come into force yet.

for the issue of mortgage securities.<sup>30</sup> Due to art. 12 sec 3.3 mortgage secured bonds can be issued as stock exchange bonds under the Securities' Market Law.

If in the decision on issue of mortgage securities an issuing program is foreseen, the law stipulates several rules regarding content of this program (Art. 12 para 3.2). In this case the decision on the issue shall sustain of two parts. The first part will describe the rights of the bond holders and other general conditions of one or several issues of the program. The second part will contain concrete conditions of single issues. In addition to the rules of the Securities Market Law for bond issuing programs, housing mortgage obligation issuing programs shall contain information on the securing pledge over the cover pool and some other information. The CBRF is entitled to set up further rules, which it has not done yet.

Covered bonds can be issued only as uncertificated securities (Art. 16 sec. 2 Securities Market Law).

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF MORTGAGE OBLIGATIONS**

The claims of the mortgage securities' holders are secured by a pledge over the cover pool (Art. 11, sec. 1).

### **Asset segregation**

In case of bankruptcy the cover pool is excluded from the bankruptcy estate of the issuer (Art. 16.1, para. 1 of the Law on Mortgage Securities; Art. 131, sec. 2, para. 3; Art 189.91, sec. 2 para 1, sec 4 of the Bankruptcy Law).

The insolvency administrator is obliged to open two special bank accounts for the cover pool to collect the money paid on the mortgage secured claims or from realisation of these claims and to make payments to the mortgage obligations' holders (Art. 133, sec. 4 of the Bankruptcy Law). A special administrator of the cover pool, different from the insolvency administrator of the general bankruptcy estate is not foreseen.<sup>31</sup>

### **Impact of insolvency proceedings on mortgage obligations**

The Law on Mortgage Securities stipulates two possibilities of realisation of the cover pool in case of bankruptcy of the issuer (Art 16.1, para. 2):

- > Change of the issuer ("zamena émitenta obligacií s ipotechnym pokrytiem"): The cover pool will be sold with the obligation for the buyer to fulfil all conditions of the decision on issuing the mortgage obligations. Details have to be stipulated by a federal law. This federal law has not been enacted yet.
- > Selling of the cover pool ("prodazha ipotechnogo pokrytiya"): The cover pool assets will be sold and the money received will be distributed among the mortgage obligations' holders. The mortgage obligations accelerate.<sup>32</sup>

The rules for the change of the issuer foresee the following: The claims of the holders of the mortgage securities will not be included into the general creditors' register under the bankruptcy law, but they will be registered in a separate register. The representative of the bond holders or the central depositor<sup>33</sup> for rights connected with bonds will be entered in the creditors' register for claims of mortgage securities' holders<sup>34</sup>, if they are appointed. If not, the mortgage securities' holders will be registered as creditors (Art. 16.1 para 1 sec. 2).

30 Special rules for mortgage securities are foreseen in Regulation CBRF No. 706-P.

31 Due to art. 16.2, sec. 3, para. 3 and 4 in case if one (or several) bond holders' representatives are appointed for the covered bonds secured by one cover pool (for several tranches secured by one cover pool) the bankruptcy receiver will transfer the money to a special account of the representative. The representative will distribute the money among the bond holders. Regarding the bond holders' representative, see ECBC Fact Book 2014, p. 395, footnote 28. Some details regarding beginning of office of the representative have been clarified by the CBRF in the Information letter dated 10.10.2018 no. IN-06-28/65 (published Herald (Vestnik) of the Central Bank, no. 78, 17.10.2018).

32 Moody's assigned a timely payment indicator (TPI) of "Very Improbable", as covered bonds under Russian law accelerate, if the issuer becomes insolvent. Due to Moody's the Law on Mortgage Securities offers limited support for timely payment to the covered bond holders, after issuer default. (Moody's Investors Service: Pre-Sale Report: DeltaCredit Bank Mortgage Covered Bonds, 20 November 2012 and 19 July 2013, in both reports p. 2).

33 Depositor's activity is foreseen in Art. 7 Securities Market Law for uncertificated securities.

34 In Russian: "Reestr trebovaniy kreditorov – vladelcev obligacií s ipotchnym pokrytiem".

A list of the mortgage securities' holders shall be prepared by the holder of the register of mortgage securities' holders on demand of the bankruptcy receiver and shall be in line with the according rules of the Securities Markets Law (Art. 16.1 para 5).

If a representative of a central depositor is appointed, the bankruptcy receiver shall transfer the money, received from realization of the cover pool to a special account of the representative or depositor (Art. 16.2 para 3 sec 3 and sec 5).

#### **Preferential treatment of mortgage obligations' holders**

Mortgage obligations' holders enjoy preferential treatment as the Russian law stipulates the separation of the cover pool from the general insolvency estate of the issuer (Art. 16.1, para. 1).

In case they are not satisfied in the realisation of the cover pool, the mortgage obligations' holders may ask for satisfaction from the general bankruptcy estate of the issuer (Art. 16.1, sec. 1 para. 3).

They are also enjoying a preferential treatment against deposit holders, as the cover pool – securing mortgage obligations – is excluded from the general bankruptcy estate, which in turn secures depositors on preferential bases<sup>35</sup>.

For details to access to liquidity in case of insolvency and sale and transfer of mortgage assets to other issuers, see ECBC Fact Book 2012, p. 423.

#### **Enforcement into the cover pool**

Russian Covered Bond Law allows for enforcement of the covered bond holders into the cover pool (Art. 15). The general realisation rules of the Mortgage Law will apply. In case of different issues with different ranking, the ranking has to be kept in distribution of the receipts (Art. 15, sec. 3).

If an issue sustains of several tranches, the foreclosure in one tranche is only allowed upon an application of the bond holders' representative (Art. 15, sec. 1, para. 3).

#### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION; ECBC LABEL CONVENTION**

Russian mortgage obligations (mortgage obligations, issued by credit organisations) comply with the requirements of Art. 52, sec. 4 UCITS and the ECBC Label Convention (see ECBC Fact Book 2012, pp. 424 - 426). The CRR is fulfilled for mortgage obligations, issued by banks, where the cover pool sustains only of housing mortgage loans (e.g. housing mortgage obligations).<sup>36</sup>

By implementing Basle III rules, in 2015 the CBRF adopted the "Statute on the Order on Calculation of the Amount of Market Risk by Credit Organisations"<sup>37</sup>. In pt. 2.1 sec. 9, 10 this Statute CBRF No. 511-P contains for this Statute a definition of securitisation: Securitisation instruments are securities, performance of which is partly or in full secured by the cash inflow from pledged assets, which in turn are no securitisation instruments (or which are securitisation instruments itself, if it is a multiple securitisation). Due to the double recourse character of covered bonds – the covered bond gives a claim towards the bank, which the bank has to fulfil also in case, if there are no payments on the cover assets, the cover pool acts as security in case of bankruptcy of the issuing credit institute – the Statute CBRF No. 511-P seems not to be applicable to covered bonds.

<sup>35</sup> See the Explanatory Memorandum of the authors dated 01 February 2011, the Official Opinion of the Government of the Russian Federation dated 6 July 2011 and the Conclusions of the Financial Markets' Committee of the State Duma as of 20 September 2011 and 24 January 2012 to draft law no 495103-5 (enacted as Federal law dated 25 June 2012 No 83-FZ).

<sup>36</sup> For mortgage obligations, secured by commercial mortgage loans, the CRR requirements (Art. 129, sec. 1, lit. f) are not fulfilled, as a loan up to a value of 80% of the market value is allowed under Russian law as cover asset (see ECBC Fact Book 2014, pp. 399 – 403).

<sup>37</sup> Statute approved by the Central Bank on 03.12.2015 No. 511-P (registered by the Ministry of Justice, 28.12.2015, No. 40328; published: Herald (Vestnik) of the Central Bank, No. 122 (1718), 31.12.2015, p. 50 – 70, here following: Statute CBRF No. 511-P. The Statute came into force 1 January 2016 (pt. 5.1).

For calculation of sufficiency of equity of investments of a bank in mortgage securities and shares of a mortgage agent (and other assets) the CBRF set up a new formula of accounting the credit risk.<sup>38</sup>

## **X. ADDITIONAL INFORMATION**

### **Investment regulations**

The EU investment regulations for mortgage obligations are not transferred into Russian law. Nevertheless, different investment rules and privileges for mortgage securities do exist. E. g. in 2017 the Central Bank has set up new rules for investing pension deposits of non-state pension funds in different asset classes.<sup>39</sup>

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<sup>38</sup> Art. 2 sec 2 and 7 of the Statute approved by the CBRF on 04.07.2018 no. 647-P "Statute of accounting of the amount of credit risk by banks in transactions, outcome of which is the attraction of monies through issue of bonds, settlement of each of it is in full or in part secured by return of monies from assets, used as security" (registered by the Ministry of Justice dated 10.10.2018 no. 52392; published: Herald (Vestnik) no. 79, 24.10.2018).

<sup>39</sup> Statute approved by the Central Bank on 01.03.2017 No. 580-P (published: Herald (Vestnik) of the Central Bank, No. 56, 10.07.2017, here following: Statute CBRF No. 580-P). See pt. 1.1.2. of Statute CBRF No. 580-P

> FIGURE 1: OVERVIEW OVER THE ISSUES OF BANK MORTGAGE OBLIGATIONS (COVERED BONDS)<sup>40</sup>

	<b>Date of issue</b>	<b>Issuer</b>	<b>Tranches</b>	<b>Volume<sup>41</sup></b>		<b>Interest rate</b>	<b>Maturity</b>
				<b>RUB</b>	<b>EUR</b>		
<b>1</b>	21.09.2011	VTB 24	A B	5,000.0 3,333.3 1,666.7	116.5 77.7 38.8	9.00% 3.00%	26.11.2043
<b>2</b>	14.09.2012	VTB 24	A B	6,000.0 4,000.0 2,000.0	147.9 98.6 49.3	9.00% 3.00%	15.09.2044 15.09.2044
<b>3</b>	23.05.2013	VTB 24	A B	6,000.0 4,000.0 2,000.0	148.7 99.2 49.6	9.00% 3.00%	01.09.2044
<b>4</b>	18.12.2013	VTB 24	A B	12,300.0 8,200.0 4,100.0	271.7 181.2 90.6	9.00% 3.00%	18.09.2046
<b>5</b>	27.03.2014	DeltaCredit <sup>42</sup>		5,000.0	102.1	12.00%	27.03.2024
<b>6</b>	25.06.2014	VTB 24	A B	6,000.0 4,000.0 2,000.0	129.8 86.5 43.3	9.00% 3.00%	14.08.2043
<b>7</b>	01.10.2014	DeltaCredit		7,000.0	140.1	11.1%	01.10.2024/ 22.10.2021
<b>8</b>	10.10.2014	DeltaCredit		5,000.0	98.1	11.92%	10.10.2024
<b>9</b>	10.12.2014	Gazprombank	A B	7,000.0 4,666.7 2,333.3	104.7 69.8 34.9	9.00% 3.00%	27.04.2048
<b>10</b>	10.12.2014	VTB 24	A B	5,800.0 3,800.0 2,000.0	86.7 56.8 29.9	9.00% 3.00%	06.12.2044
<b>11</b>	24.11.2016	DeltaCredit		7,000.0	102.9	10.29%	24.11.2021
<b>12</b>	28.12.2017	DeltaCredit		7,000.0	100.7	7.82%	28.12.2022
<b>Total outstanding</b>				<b>79,100.0</b>	<b>1,550.0</b>		
							<b>Date of redemption</b>
<b>1</b>	16.12.2009	VTB 24		15,000.0	341.3	9.70%	10.12.2014
<b>2</b>	11.10.2007	MIA		2,000.0	56.7	12.50%	01.10.2015
<b>3</b>	12.02.2015	Investtorgbank		2,500.0	33.4	15.35%	12.02.2020
<b>4</b>	14.09.2011	Unicreditbank		5,000.0	121.3	8.20%	07.09.2016
<b>5</b>	02.04.2013	DeltaCredit		5,000.0	125.6	8.50%	02.04.2016
<b>6</b>	09.11.2011	DeltaCredit		5,000.0	119.2	8.33%	02.11.2016
<b>7</b>	11.12.2012	DeltaCredit		5,000.0	125.5	9.15%	05.12.2017
<b>8</b>	04.02.2015	DeltaCredit		5,000.0	65.1	8.50%	04.02.2018
<b>9</b>	10.07.2013	DeltaCredit		5,000.0	117.3	8.65%	04.07.2018
<b>10</b>	05.09.2013	DeltaCredit		5,000.0	113.4	8.45%	30.08.2018
<b>11</b>	30.03.2016	DeltaCredit		5,000.0	65.1	10.57%	30.03.2019
<b>12</b>	23.09.2015	Unicredit		4,000.0	54.1	12.25%	16.09.2020
<b>13</b>	26.02.2016	Gazprombank		15,000.0	178.1	10.90%	19.02.2021
<b>Total redeemed</b>				<b>78,500.0</b>	<b>1,516.1</b>		
<b>Total issued</b>				<b>157,600.0</b>	<b>3,066.1</b>		

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/41/Mortgage\\_Obligations\\_](https://www.ecbc.eu/framework/41/Mortgage_Obligations_)

40 Details of the issues can be found on [www.cbonds.info](http://www.cbonds.info) and Encyclopedia of Russian Securitization, 5th ed. Saint Petersburg 2018, pp. 185, 186.

41 CBRF exchange rate as of date of issue.

42 Since 1 June 2019 AO CB Delta Credit has been reorganized by incorporation into PAO Rosbank (as mortgage center Rosbank-Dom).



### **3.33 SINGAPORE**

By Colin YS Chen, DBS Bank & Chairman of the ECBC Global Issues Working Group and Franz Rudolf, UniCredit

#### **I. FRAMEWORK**

On 31 December 2013, the Monetary Authority of Singapore ("MAS") published its regulations regarding the issuance of covered bonds by banks incorporated in Singapore (MAS Notice 648)<sup>1</sup>. The regulations became effective 31 December 2013 and were amended in June 2015 and October 2020. The requirements set out in the notice are mandatory for Singapore's banks as MAS Notice 648 is part of The Banking Act in Singapore. The regulation outlines MAS' rules relating to the issuance of covered bonds by banks incorporated in Singapore and it will enable Singapore's banks to gain access to longer term, stable funding options as well as to facilitate the diversification of funding sources for the banking and financial markets in Singapore.

DBS Bank Ltd was the first to establish its USD 10 bn Covered Bond Programme under these new regulations on 16 June 2015 and on 30 July 2015, issued the inaugural Singapore covered bond, pricing USD1 bn, fixed rated covered bonds due 2018. Following then, United Overseas Bank Ltd. also launched its USD8 bn Covered Bond Programme on 23 November 2015. The first series of EUR500 mn fixed-rate covered bonds was subsequently issued on 3 March 2016. The third issuer was Oversea-Chinese Banking Corporation, which issued a EUR500 mn fixed rate covered bonds due 2022 on 15 March 2017, as part of its USD10 bn Covered Bond Programme.

Singapore's covered bonds are based on contractual agreements and governed by the law of contracts under common law, which applies to all elements of the covered bond structure. This, together with the implemented specific covered bond regulations, creates a framework comparable with that of other European jurisdictions, e.g. in the UK, via a more prescriptive regulatory framework.

Singapore's legal system is similar to the legal system in the UK in that the covered bond structure is fundamentally based on statutes or acts, which have been formally enacted by the legislative authority of the Republic of Singapore. It is considered a primary authority and source of law and determines the applicable legislation. The MAS guidelines arising from the MAS Notice 648 and its amendment provide clarity on the characteristics of a Singapore covered bond.

Singapore covered bonds are direct and unconditional obligations of the issuer and in the event of a default or insolvency of the issuer, the covered bond investors will have dual recourse: an exclusive senior secured claim on the pool of cover assets and also a senior unsecured claim on the issuer. The cover pool assets will be held in a special purpose entity, which, in turn, will provide a guarantee in respect of the principal and interest payments under the covered bonds' outstanding. A bond/security trustee is appointed to hold the security over the cover pool for the benefit of the covered bond investors.

#### **II. STRUCTURE OF THE ISSUER**

In the MAS Notice 648 covered bonds are defined as "bonds, notes or other debentures issued by a bank or an SPV (Special Purpose Vehicle) where the payments of the liabilities to the holders of such covered bonds and any liabilities arising from the enforcement of the rights of the holders of the covered bonds are: (a) secured by a cover pool; and (b) recoverable from the bank whether or not the cover pool is sufficient to pay off such liabilities." This implies the dual recourse nature of covered bonds with a claim of covered bond holders against the cover pool as well as the issuing bank. The cover pool, in this context, comprises the eligible assets owned by the bank or an SPV for the purpose of securing the liabilities to the holders of the covered bonds only. MAS Notice 648 is applicable to all banks incorporated in Singapore. In order to issue covered bonds, the bank has to notify MAS at least one month prior to the issuance of covered bonds. In addition, issuers will have to submit to the MAS a Memorandum of Compliance, confirming that the guidelines with respect to the program and issuances for covered bonds have been adhered to and complied with.

<sup>1</sup> MAS Notices can be found on MAS website at [www.mas.gov.sg](http://www.mas.gov.sg).

### **III. COVER ASSETS**

The cover pool may consist of the following assets, according to Paragraph 6 of Notice 648:

- > Mortgage loans secured by residential property ("residential mortgage loans"), whether in Singapore or elsewhere (no geographic limitation to mortgage loans); the loan-to-value (LTV) limit is set at 80% ("soft limit"), taking into account the current market value of the residential property;
- > Any other loans secured by the same residential property as the residential mortgage loans;
- > Assets, including intangible properties, that form part of all the security provided for the residential mortgage loans, such as guarantees and indemnities;
- > Any interest held by the bank as trustee or a replacement trustee for the SPV in relation to the residential mortgage loans or the assets referred to in paragraphs (a) and (b);
- > Derivatives held for the purpose of hedging risks arising from the particular issuance of covered bonds;
- > Cash (including foreign currency);
- > Singapore Government Securities, and
- > MAS Bills.

The aggregate value of substitute collateral (cash, Singapore Government Securities and MAS Bills) is limited to 15% of the cover pool. The 15%-limit can be temporarily exceeded in order to allow the issuer to build up the necessary liquidity to meet payments in the upcoming 12 months or to account for operational timing differences.

MAS imposed to limit the amount of collateral in the cover pool at 10% of total assets of an issuer. This limit has been increased in October 2020 from previously 4%. Total assets of the bank include assets of the branches but does not include assets of the subsidiaries of the bank. For the purpose of determining the total assets of a bank, the bank must exclude assets it uses to meet regulatory requirements under sections 38, 39 and 40, read with section 65, of the Banking Act, section 8 of the Deposit Insurance and Policy Owners' Protection Schemes Act and other regulatory requirements as may be prescribed or specified by MAS. Commercial mortgage loans or public sector loans are not eligible.

### **IV. VALUATION AND LTV CRITERIA**

The legal framework sets an 80% loan-to-value (LTV) limit for the eligibility of residential mortgage loans. The LTV limit is a soft limit, meaning that in case a mortgage loan exceeds 80%, the loan can still be included in the cover pool, but only the value up to 80% is given credit to when determining the value of the cover pool. The value of the underlying collateral is determined by the current market valuation of the residential property that is used to secure the residential mortgage loan. A valuation of residential properties used to secure the loans must be conducted on an annual basis.

### **V. ASSET – LIABILITY MANAGEMENT**

MAS Notice 648 Paragraph 6(h) stipulates a mandatory minimum overcollateralisation (OC) of 3% on a nominal basis as "... the value of assets in a cover pool must be at least 103% of the outstanding nominal amount of the covered bonds secured by the assets at all times." Covered Bond issuers must in accordance with MAS Notice 648 Paragraph 8(a) perform regular asset coverage tests (ACTs) to ensure collateral quality and the proper level of overcollateralisation. In addition, regular stress tests on risks related to default, prepayment, currency, interest rate, counterparty and liquidity have to be performed. Details regarding these tests will be addressed in the respective covered bond programs of Singapore issuers.

## **VI. TRANSPARENCY**

Covered bond issuers must disclose to the covered bond holders the results of asset coverage tests (ACTs) performed and cover pool characteristics on a regular basis and in any event, at least every quarter, according to MAS Notice 648 Paragraph 8(e).

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

According to Paragraph 8(b), a cover pool monitor must be appointed. The cover pool monitor, who has to be an external third party qualified to be an auditor under the Companies Act (Cap 50), has to verify the compliance of the covered bond issuer with Notice 648 regulations and report these to MAS. A certified report has to be submitted to the Authority annually in the first quarter following the end of the bank's financial year. The duties of the cover pool monitor explicitly include to:

- > Verify annually that the bank complies with covered bond-specific regulations (asset cap, eligible assets, LTV limits, overcollateralisation, et al. as defined in Paragraph 6(a) to (h));
- > Verify annually that the bank or SPV, as the case may be, keeps an accurate register of the assets in the cover pool;
- > Assess the adequacy of the bank's or SPV's, as the case may be, risk management process and internal controls relating to the covered bond program annually, including an independent review of ACTs performed by the bank or SPV, as the case may be;
- > Submit a certified report to MAS annually on compliance with covered bond regulations; and
- > Report to MAS immediately if it becomes aware that the bank or SPV has breached any of the conditions imposed.

Singapore's covered bond regulations stipulate that the issuing bank must ensure adequate risk management processes and that internal controls are in place to manage the risks arising from the issuance of covered bonds, including appropriate governance arrangements and regular stress tests on risks arising from issuing covered bonds such as default, prepayment, currency, interest rate, counterparty and liquidity risks. This also includes having governance processes in place with respect to the authority to approve any issuance of the covered bond. Finally, regulations state that the board and senior management of the issuer are responsible for conducting due diligence in assessing the risks associated with issuing covered bonds and ensuring that risk management processes that are put in place for covered bonds are adhered to.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Given that Singapore's legal system is based on Commonwealth Common Law, a similar structure applies as used for the issuance of covered bonds in the UK, Canada, Australia, or New Zealand. Thus, covered bonds will be issued by a bank, with the cover pool collateral sold by way of an equitable assignment or by declaring a trust over the collateral to a Special Purpose Vehicle (SPV). The covered bond will benefit from dual recourse on the issuer and the cover pool. This structure ensures the segregation of the cover assets from the insolvency estate of the issuer in the case of an issuer default. The contractual agreements for the issuance of covered bonds are structured within the general legislation in Singapore.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Singapore covered bonds are not UCITS 52(4) or CRR Article 129 compliant given that Singapore is not a Member State of the European Union. As such, it is unlikely that Singapore covered bonds will benefit from preferential risk weighting for regulatory capital purposes. However, given the revised release of the Basel III framework containing preferential risk weights explicitly for covered bonds and the definition of minimum standards, the framework could have a positive impact for covered bonds outside the European Union when it comes into force on 1 January 2023. Covered bonds are LCR eligible in Singapore if they have a long-term credit rating of at least AA- from a recognised external rating agency, and have a proven record as a reliable source of liquidity in the markets even during stressed market conditions. During the course of the year, MAS also introduced the Emergency Liquidity Facility, which will allow for eligible covered bonds to be repoed with the MAS.

**Issuers:** DBS Bank Limited, United Overseas Bank Limited, Oversea-Chinese Banking Corporation.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/111/Singapore\\_Covered\\_Bonds](https://www.ecbc.eu/framework/111/Singapore_Covered_Bonds)



## **3.34 SLOVAKIA**

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### **I. FRAMEWORK**

Covered bonds are regulated by the Act on Bonds (Act No. 530/1990 Coll., Part Four, Article 20b); by the Act on Banks (No. 483/2001 Coll., Part 12); by the Insolvency Act (Act No. 7/2005 Coll., Part 6); by five Decrees of the NBS for covered bonds programme, for example: stipulating the details of an application for prior approval of the NBS and the Decree of the NBS stipulating Covered Bond Register, reporting and disclosure.

According to the Act on Banks, a covered bond is a secured bond under a special regulation (Act on Bonds) the nominal value and aliquot interest income of which are fully covered by assets or asset values in a cover pool and correspond to the value of assets which, for the whole period of validity of the covered bond, are preferentially intended to satisfy claims arising from this covered bond and these assets, in case the bank issuing these bonds, is not able to properly and timely pay its liabilities arising from them, will be preferentially used to pay the nominal value of the covered bond and aliquot interest income. The covered bond can be issued only by a bank with granted prior approval from NBS to perform activities related to covered bonds programme and the title must include the words "covered bond" ("krytý dlhopis").

Cover pool consist of primary assets representing residential mortgage loans with a maximum loan-to-value (LTV) of 80% of the value of the mortgaged real estate, substitution assets amounting maximum of 10% of the total value of the cover pool, hedging derivatives and buffer of liquid assets.

The coverage ratio, calculating the value of the cover pool and the total of the values of liabilities of covered bonds and operational costs over the next year incurred by the issuing bank, must be kept at the minimum level of 105%. In individual terms and conditions of the issuance of the covered bonds, the bank can determine a higher coverage ratio than 105% and from this moment the bank is obligated to maintain such a higher coverage ratio until the full repayment of the covered bond issuance for the entire relevant covered bonds programme. If the bank determines several higher coverage ratios for different issuances, it is obligated to maintain the highest coverage ratio for the entire relevant covered bonds programme until the full repayment of the covered bonds issuance with such highest coverage ratio, while the bank is also obligated to immediately replenish and continuously replenish the cover pool to the extent corresponding to such highest coverage ratio.

The bank is obligated to calculate the coverage ratio as of the last day of the relevant month.

Covered bond holders have recourse to the issuer as well as a preferential claim on the cover pool. The collateral in the cover pool is recorded in a special register of covered bonds and overseen by a cover pool administrator. The special public supervision is divided between the special administrator and banking supervision performed by the NBS.

### **II. STRUCTURE OF THE ISSUER**

The covered bond in Slovakia can be issued only by a bank with granted prior approval from the NBS to perform activities related to covered bonds programme.

The issuer of covered bonds owns the cover assets and keeps them on its balance sheet. The holder of the covered bond has a direct recourse to the issuing bank.

### **III. COVER ASSETS**

Covered bond is a secured bond the nominal value and aliquot interest income of which are fully covered by assets or asset values in a cover pool.

Mortgage loan according to Act on Banks is a loan secured by a lien or other security right to real estate, including building under construction, apartment, including apartment under construction or non-residential premises, including non-residential premises under construction (hereinafter the "real estate"), a part of real estate or future real estate and granted by a bank, foreign bank or a branch of a foreign bank.

Cover pool consists of the following parts:

- a) primary assets – consist of the receivables of the issuing bank from mortgage loans with a maturity period not longer than 30 years granted only to retail consumers under a special regulation which are secured by liens to real estate and which are registered by the bank in the register of covered bonds at its discretion. The primary assets include, in addition to the receivables also the liens to real estate used to cover these receivables. The primary assets must account for at least 90% of the total value of the cover pool which, for this purpose, excludes the value of liquid assets. The value of the primary assets is calculated on the basis of a residual nominal value of individual receivables together with aliquot interest income. The primary assets, or any part thereof, in relation to which the debtor is considered defaulted (under Article 178 (1) of Regulation (EU) No. 575/2013) must be deleted from the register of covered bonds.
- b) substitution assets – must meet conditions under a special regulation (Article 129 (1)(c) of Regulation (EU) No. 575/2013). The substitution assets can account for not more than 10% of the total value of the cover pool which, for this purpose, excludes the value of liquid assets. The value of the substitution assets is determined on the basis of their real value.
- c) hedging derivatives – consist of derivatives the purpose of which is to manage and mitigate currency risk or interest rate risk connected with issued covered bonds. The hedging derivatives are included into the calculation of the value of the cover pool as follows:
  - i) the hedging derivatives used to mitigate the currency risk are measured at fair value,
  - ii) the hedging derivatives used to manage and mitigate the interest rate risk of the substitution assets are measured at fair value,
  - iii) the hedging derivatives used to mitigate the interest rate risk of the primary assets and the covered bonds are not included into the calculation of the value of the cover pool.
- d) liquid assets – consist of assets of level 1 assets, level 2A assets (under Articles 10 and 11 of Commission Delegated Regulation (EU) 2015/61 of 10 October 2014 supplementing Regulation (EU) No 575/2013) except own covered bonds issued by the bank issuing the covered bonds and exposure toward institutions (Article 129 (1)(c) of Regulation (EU) No. 575/2013).

If the bank has not aligned the maturities of positive and negative cash flows within the covered bonds programme in every moment during the following 180 days then, in order to cover all expected negative cash flows from the covered bonds programme, it is obligated to cover them from a buffer of liquid assets at least in the value of uncovered negative cash flows. The value of securities entering the buffer of liquid assets shall be determined on the basis of their fair value including an aliquot interest income. The value of the buffer of liquid assets is a part of the coverage ratio.

Assets and other asset values become a part of the cover pool when registered in a register of covered bonds and are a part of the cover pool until they are deleted from the register.

The cover pool can be used to cover only:

- a) the liabilities of the issuing bank in order to pay the nominal value and aliquot interest income from all covered bonds issued by this bank until they are fully repaid,
- b) the estimated liabilities or costs of the issuing bank (operational cost of covered bonds programme) which arise and are immediately connected with the management thereof and settlement toward persons that

conduct activities under the Act, or arising from issuance conditions especially toward the administrator of the covered bonds programme, payment service agents, administrators, representatives of the owners of the covered bonds and other persons performing similar activities at least for twelve months,

c) the liabilities of the issuing bank which arise from the hedging derivatives included in cover pool.

Assets and other asset values constituting a part of the cover pool are used by the bank preferentially to cover the bank's liabilities mentioned above and the bank must not dispose of them or use them to secure other liabilities until they are deleted from the register of covered bonds.

#### **IV. VALUATION AND LTV CRITERIA**

The legislation sets an 80% loan-to-value (LTV) limit for the eligibility of residential mortgage loans. The LTV limit is a soft one, meaning that in case a mortgage loan exceeds 80%, the loan is included into the primary assets only up to the amount that does not exceed 80% of the value of the pledged property. If the value of the pledged property drops below the amount of the outstanding principal of the mortgage loan, such mortgage loan must be immediately deleted from the register of covered bonds.

The value of the property will be determined by the bank based on an overall assessment of the property and the bank is bound solely by own assessment of the property. The bank is obligated to continuously monitor and regularly reappraise the value of the pledged property according to Decree of NBS No.10/2016 at least once in three years.

The lien on the real estate securing the mortgage loan is established by its recording in the Land Register (Act No. 162/1995 Coll.; Cadastre Law) on the basis of a proposal of the bank and owner of the real estate.

#### **V. ASSET – LIABILITY MANAGEMENT**

There is a mandatory minimum overcollateralisation of 5% stipulated by the law.

The bank is obliged to keep liquidity buffer in order to cover the liquidity gap for the following 180 days. If the principle of the covered bond issuance becomes due during the following 180 days, the calculation of liquidity buffer includes positive cash flows and negative cash flows from interests and principal in full amount.

Liquid assets that are a part of the buffer of liquid assets can be included for the purposes of the fulfilment of liquidity requirements during the period of thirty days under a special regulation (Articles 10 and 11 of Commission Delegated Regulation (EU) 2015/61, supplementing Regulation (EU) No. 575/2013) only to the extent of coverage of uncovered negative cash flows from covered bonds during the period of the following thirty days.

If the bank makes transactions in order to mitigate the currency or the interest rate risk arising from a net open currency position or an interest rate position between the issued covered bonds and the assets making up the cover pool, it is obligated to include these hedging derivatives and financial flows from them, together with their security, into the cover pool. The hedging derivatives must meet qualification criteria of an effective hedging relation.

The bank shall carry out yearly stress tests as part of its covered bonds programme. The stress test shall be set in line with the stress test performed to evaluate the appropriateness of the internal capital and include test for credit risk, interest rate risk, currency risk, liquidity risk, counterparty risk, operational risk and immovable property prices decline risk. The bank is required to prove in the stress test that it is able to keep the coverage ratio also during the stress test period.

#### **VI. TRANSPARENCY**

The bank issuing covered bonds shall publish:

a) the structure of covered bonds, maturity thereof, the number and volume of the covered bond issuance, the currency and the interest rates thereof,

- b) the value, type and asset ratio in the cover pool and important changes in it,
- c) the volume according to the currency of the monetary nominal value, weighted average residual maturity, weighted average interest rate and weighted average value of primary assets security indicator in the cover pool,
- d) the proportional geographical distribution of the primary assets and real estate which secure them and constitute the cover pool,
- e) other documents and information related to the covered bonds programme.

Duties of the administrator:

Until 30 April of a current calendar year, the administrator shall submit to the NBS a report on the covered bonds programme covering the preceding year and containing:

- a) number, volume, revenues and maturity dates of the issued covered bond issues,
- b) volume of assets in the cover pool and covered bonds issued in euros or foreign currency,
- c) structure of the cover pool,
- d) coverage indicator,
- e) average value, maturity of the primary assets, as well as the fixation period and weighted interest rate,
- f) volume of failed and eliminated mortgage loans from the cover pool,
- g) reasons of material changes in replenishing, or elimination of assets from the cover pool,
- h) structure of immovable property securing the primary assets, broken down by family houses, flats, building land and unfinished structures,
- i) the relative situation of immovable properties securing the primary assets according to the territorial division of the Slovak Republic and the LTV ratio,
- j) method for calculation and amount of the estimated liabilities or costs incurred by the bank,
- k) methodology and results of stress tests,
- l) activities of the administrator, and the supervision carried out by the NBS in relation to the covered bonds programme,
- m) other factors related to the activities of the bank.

The bank shall publish this report on its website.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The NBS shall appoint the covered bonds programme administrator and his deputy, who shall supervise compliance with the conditions related to the covered bonds programme set out in the Act on Banks and other generally binding legal regulations.

The administrator shall perform his activities individually, independently and impartially. Prior to any issue of covered bonds, the administrator is required to prepare a written certificate evidencing that coverage of those covered bonds is secured in line with the legislation.

The administrator checks and verifies whether:

- a) the aggregate nominal value of the issued covered bonds, and the corresponding interest revenues, is covered by the assets comprising the cover pool at least at the coverage indicator value,
- b) the bank complies with the requirements for structure of the cover pool,

- c) the assets comprising the cover pool and registered in the register of covered bonds comply with the Act on Banks,
- d) the agreement dealing with the securing derivatives comprising the cover pool contains provisions pursuant to Section 73(5),
- e) the estimated liabilities are justified,
- f) the immovable property securing the primary assets meet the legal requirements,
- g) the bank keeps the register of covered bonds and documentation serving as basis for making entries in the register separately from other documents, and whether the bank has secured the same against misuse, destruction, damage, theft or loss,
- h) the bank keeps in its accounting records separate analytical records of related transactions.

The bank must allow the administrator to perform his activities; in particular to allow him to inspect accounting records, documents relating to the cover pool and covered bonds programme. Activities of the administrator and his deputy are subject to supervision by the NBS.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

In the event the bank issuing covered bonds is declared bankrupt (such declaration being made in form of a resolution of a bankruptcy court and made known to all creditors via publication in the Official Journal), the assets and asset values comprised in the cover pool are fully segregated from the general insolvency estate of the bankrupt bank. The trustee of the bankrupt bank is obliged to manage those assets and asset values as a special separate bankruptcy estate for the benefit of the covered bond holders having, by operation of law, a preferential claim and first priority perfected security interest in the cover pool. A segregated nature of the cover pool is further emphasized by the legislation in two more aspects.

Firstly, only the assets and asset values included in the covered bond register may serve as collateral for the benefit of the covered bond holders and be used to satisfy their claims in the event of the issuing bank's bankruptcy.

Secondly, special procedures must be observed by the bankruptcy trustee regarding the administration and management of the overall covered bonds programme upon declaration of the issuer's bankruptcy. These procedures seek the ultimate purposes of extending the original maturities of the covered bonds in the event of bankruptcy as well as postponement of immediate acceleration of the covered bonds upon the declaration of bankruptcy. In particular, it is the responsibility of the bankruptcy trustee to assess, with a due and professional care, whether further administration of the covered bonds programme is feasible and does not result in reduction of the covered bond holders' claims.

Once the trustee ascertain that a possible reduction may threaten, he shall cooperate with the special covered bonds programme administrator in the process of notification to the NBS regarding the intention to transfer the entire covered bonds programme to one or more solvent banks. The performance of the transfer of the covered bonds programme is subject to the prior approval by the NBS and must be completed within one year following the date of its notification. The NBS may grant extension to the original period by additional one year in case the transfer has failed to be executed within the original one year's period and it can be presumed that its later performance will result in higher degree of satisfaction of the covered bond holders' claims. During both original as well as additional period for the transfer, the issuer is obliged to make postponement of payments of principals and is allowed to make only yield payments pertaining to the covered bonds within their original maturities.

The payments of principals are allowed only in respect of the issuances with original maturities falling due within the first month of the original period for the transfer of the covered bonds programme. For the issuances

which mature later but still anytime during the original or additional period for the transfer of the covered bonds programme, the payments of principals are postponed until the expiry date of the relevant period. In addition, there is also no acceleration of the issuer's liabilities relating to the covered bonds during the period for the transfer. The mechanics of the transfer adopts the features identical to the sale of the company's enterprise or its part on a solvent basis ("predaj podniku") and shall include the transfer and assumption of the whole portfolio of claims and liabilities pertaining to the covered bonds and to the assets in the cover pool from the bankrupt issuer to one or more transferee banks. If the trustee has failed to successfully transfer the entire portfolio within the relevant period, then the acceleration of the issuer's liabilities relating to the covered bonds is triggered immediately following after the trustee has terminated the operation of the covered bond issuer's business.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Slovak "Krytý dlhopis" comply with the requirements of Article 52(4) UCITS as well as of Article 129 of Regulation (EU) No. 575/2013.

The listed covered bonds are eligible for repo transactions with the central bank.

## **X. ADDITIONAL INFORMATION**

**Issuers:** Československá obchodná banka, Prima banka Slovensko, Slovenská sporiteľňa, Tatra banka, VÚB – Všeobecná úverová banka, Unicredit Bank – UniCredit Bank Czech Republic and Slovakia.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/42/Slovakian\\_Covered\\_Bonds](https://www.ecbc.eu/framework/42/Slovakian_Covered_Bonds)



COVERED BOND : Prima banka Slovensko, a.s.

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1 Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR):  
<https://hypo.org/ecbc/covered-bonds/>.

### **3.35 SLOVENIA**

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#### **I. FRAMEWORK**

Since 2012, covered bonds in Slovenia are governed primarily by the Mortgage Bond and Municipal Bond Act (Official Gazette of the Republic of Slovenia no. 10/12 and no. 47/12; "the Covered Bond Act"). In addition, general rules of the Financial Instruments Market Act (Official Gazette of the Republic of Slovenia no. 67/07 and amendments), the Banking Act (Official Gazette of the Republic of Slovenia no. 25/15, 44/16 and 77/16), the Resolution and Compulsory Dissolution of Credit Institutions Act (Official Gazette of the Republic of Slovenia no. 44/16 and 71/16) and the Consumer Credit Act (Official Gazette of the Republic of Slovenia no. 77/16) are to be applied (Article 6 of the Covered Bond Act).

The Bank of Slovenia<sup>1</sup> ("BoS") issued further relevant by-laws, namely the Regulation on the Conditions for Obtaining an Authorisation for Issuing Mortgage and Municipal Bonds, the Regulation on Matching the Cover Pool with the Outstanding Mortgage and Municipal Bonds, the Regulation on the Conditions for Inclusion of Derivative Instruments in the Cover Pool of Mortgage and Municipal Bonds and the Regulation on the Documentation for Proving the Fulfilment of Conditions for the Cover Register Administrator Appointment (all four regulations published in the Official Gazette of the Republic of Slovenia no. 17/2012). In addition, the Governing Board of the BoS adopted Recommendations for Managing the Records of the Cover Register as of 28 February 2012.

Although the Covered Bond Act altogether with the Regulations of the BoS represents a modern and suitable legal framework for the issuance of covered bonds in Slovenia, there have been no covered bond issuances from the Slovenian market yet.

The Slovenian covered bond legislation is currently being amended to be in line with the EU Covered Bond Directive, with the aim to comply with the 8th July 2023 milestone.

#### **II. STRUCTURE OF THE ISSUER**

Covered bonds can be issued by banks holding a valid banking license and which are authorised from the Bank of Slovenia to issue mortgage covered bonds or public sector covered bonds.

In order to obtain a special license for the issuance of covered bonds, an issuing bank must prove that it fulfils the following conditions, set out in Article 9 of the Covered Bond Act:

- > Suitable risk management procedures and instruments associated with the issuance of covered bonds as well as with the cover pool assets;
- > Adequate number of qualified staff and ability to be organisationally and technically qualified to issue mortgage or public sector covered bonds and to finance the real property, owned by entities, governed by public law, and other legal entities;
- > Separation of services related to the issuance of covered bonds and to the covered assets from the bank's other operations;
- > Rules for maintaining the cover register;
- > Rules for property valuation and at least one independent valuer.

#### **III. COVER ASSETS**

Only receivables from mortgage loans and loans that are secured by an eligible state or a local community, that are compliant with provisions of the Covered Bond Act, can be considered as the cover assets for covered bonds.

<sup>1</sup> The Central Bank of the Republic of Slovenia.

The cover assets of mortgage covered bonds can consist of receivables arising from (i) loans secured by a mortgage on residential property that is located in the EEA or Switzerland, (ii) loans secured by a mortgage on commercial property that is located in the EEA or Switzerland (up to 20% of the cover assets).<sup>2</sup>

The cover assets of public sector covered bonds can consist of receivables arising from (i) loans granted to or debt securities issued by an eligible state<sup>3</sup> or an eligible local community<sup>4</sup>, (ii) loans granted to or debt securities issued by another legal entity provided that the obligations in respect to such loans or securities are irrevocably and unlimitedly guaranteed by an eligible state.

Up to a maximum of 20% of the cover pool can be provided by substitute cover assets. Eligible assets are (i) balances on the accounts with the BoS, (ii) investments in marketable debt securities issued or guaranteed by an EEA member state and Switzerland or their central banks or ECB, or (iii) investments in other debt securities issued by EIB, EBRD or any other bank, provided that they are used as the collateral for receivables in accordance with the ECB's criteria, published in the Articles of Association governing the European System of Central Banks (Article 20 of the Covered Bond Act).

Additionally, an issuer can also include derivative financial instruments in the cover pool (up to 12%) in order to reduce/hedge the market risks on its assets, in particular the risks associated with interest rate and currency mismatch.

Finally, an issuer must take into account also the following limitations according to Article 25:

- > Up to 5% of the cover assets can consist of mortgage loans secured by a mortgage on residential property under construction;
- > Up to 10% of the cover assets can consist of mortgage loans secured by a mortgage the registration of which is still pending, provided that the process of registration in the Slovenian land register is completed within 12 months from the date of filing the application;
- > Up to 20% of the cover assets can consist of mortgage loans granted to an individual or to legal entities which are considered as a group of related parties in accordance with the Banking Act; nevertheless, the bank's exposure to these entities must not exceed the maximum admissible exposure set out in the Banking Act.

#### **IV. VALUATION AND LTV CRITERIA**

The level of receivables from mortgage loans that can be taken into consideration for the cover assets must not exceed: (i) 80% of the mortgage lending value of mortgaged property or, in case the general market value is used, 50% of the general market value of property for loans secured by mortgage on residential properties; (ii) 60% of the mortgage lending value of mortgaged property for loans secured by mortgage on commercial properties. When the level of receivables from mortgage loans exceeds the above restrictions, only an appropriate portion of the loan can be considered as eligible cover assets (Article 28 of the Covered Bond Act).

Generally, a valuation of residential and commercial property is based on the mortgage lending value.<sup>5</sup> However, if the latter cannot be determined, the market value is used instead. It is important to note that a valuation must be performed by an independent property valuer and in compliance with the international property valuation standards, adopted by the IVSC (Article 26 (4) of the Covered Bond Act).

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2 As stipulated in Article 19 (3) of the Covered Bond Act, only receivables from first ranking mortgage loans or lower ranking mortgage loans provided that the issuer also holds the prior-ranking claims are eligible for mortgage cover pools.

3 An eligible state is (i) the Republic of Slovenia and (ii) an EEA member state and (iii) Switzerland, whose credit rating is equal to or higher than the Eurosystem's credit rating threshold, established by the BoS.

4 An eligible local community is a local community (i) in the Republic of Slovenia and (ii) in an EEA member state and (iii) Switzerland, whose credit rating is equal to or higher than the Eurosystem's credit rating threshold, established by the BoS.

5 The methodology for determining the mortgage lending value is established by property valuation rules, adopted by each individual issuer (Articles 26 and 29 of the Covered Bond Act).

However, as regards residential property, also the general market value, estimated by using the mass appraisal methods, can be used (Article 27 of the Covered Bond Act).

A value of property is determined individually for each real property. During the property mortgage loan term, an issuer must regularly monitor the value of mortgaged property and re-assess this value at least once a year for commercial property and at least once every three years for residential property. In addition, a need for a new valuation of the property also arises when a value of real property and/or general market prices of real properties in the area where the real property is located drop substantially (by more than 20%), or when a borrower is late in meeting his obligations under the mortgage loans by more than 90 days (Article 30 of the Covered Bond Act).

#### **V. ASSET – LIABILITY MANAGEMENT**

Article 22 of the Covered Bond Act states, that covered bonds can only be issued to the level that still ensures full coverage of liabilities stemming from outstanding bonds and derivative financial instruments by means of cover assets at all times and in at least the same aggregate nominal amount. Additionally, the matching of cover assets with the liabilities stemming from covered bonds and derivative financial instruments must be at all times ensured also according to the present value principle<sup>6</sup>. In this case, the cover assets' present value must exceed the present value of liabilities stemming from covered bonds by the minimum legal overcollateralisation requirement of 2%. Furthermore, cover assets need to be matched with liabilities stemming from issued covered bonds and derivative financial instruments also in terms of maturities, interest rates and currency exposure.

The compliance with the above-mentioned conditions must be verified at least once a month. In addition, stress tests (e.g. tests of the impact of a change in interest rates and foreign exchange rates) must be performed monthly too. If the present value of cover assets does not exceed the present value of covered bonds by at least 2%, an issuer must immediately start with the activities to increase cover assets accordingly (Articles 4-7 of the Regulation on Matching the Cover Pool with the Outstanding Mortgage and Municipal Bonds).

Additionally, an issuer must compare the amount of matured receivables from the cover assets entered in the cover register with the amount of matured liabilities stemming from the issued covered bonds and from the derivative financial instruments entered in the cover register over the next 180-day period on a daily basis. Subsequently it must provide the coverage in a form of the substitute cover assets following the comparison of the largest calculated difference between the matured liabilities and the matured receivables (the so-called cover assets reserves) (Article 23 of the Covered Bond Act).

#### **VI. TRANSPARENCY**

According to the Covered Bond Act (Article 52), issuers are obliged to report to the Bank of Slovenia an extract from the cover register on a quarterly basis. In addition, the issuer's annual report shall also contain information on the cover pool assets, e.g. the number and category of mortgage loans or the area in which the real estate property is located.

#### **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

##### **Cover register**

Each issuing bank needs to keep a cover register (Article 37 (1) of the Covered Bond Act). In case of issuing both mortgage and public sector covered bonds, a bank must keep two separate cover registers (Article 51 (2) of the Covered Bond Act).

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<sup>6</sup> In case of the derivative financial instruments the fair value principle is used instead of the present value principle (Article 3 (3) of the Regulation on Matching the Cover Pool with the Outstanding Mortgage and Municipal Bonds).

The cover register contains the receivables and investments that represent cover assets for the issued mortgage and municipal bonds (public sector covered bonds) as well as the record of all mortgage and municipal bonds issued, all of them clearly individualised. Moreover, it must reveal the nominal value of the cover assets and mortgage/municipal bonds in circulation at all times (Article 37 (2-4) of the Covered Bond Act).

#### **Cover register administrator**

A cover register administrator ensures that the cover register is maintained in accordance with the provisions of the Covered Bond Act and its related Regulations. Only a person that is a certified auditor or an otherwise qualified expert that was previously being granted a licence from the BoS to perform the tasks of a cover register administrator can be appointed as a cover register administrator. Moreover, such a person must also be independent from the issuer (Articles 39 and 40 of the Covered Bond Act).

The duties and obligations of a cover register administrator are as following (Articles 38 (1-3), 41 and 42 of the Covered Bond Act):

- > To ensure that the cover assets provide a sufficient coverage for the total value of the covered bonds in circulation and liabilities stemming from derivative financial instruments and to notify the BoS without any delay if he considers such a coverage to be unsatisfactory;
- > To ensure that the assets are recorded in the cover register in accordance with the Covered Bond Act;
- > Prior to the issuance of covered bonds, to confirm that the cover assets provide a sufficient and adequate coverage for covered bonds;
- > To give consent to the issuer's request for a cancellation of a mortgage in the Slovenian land register that serves as a security for the claims, entered as a coverage in the cover register;
- > To regularly notify the BoS of its findings pursuant to the Covered Bond Act;
- > To examine the books of account and other documents of the issuer that could be in any way associated with covered bonds and cover assets;
- > To require from an issuer to keep him regularly informed of the performance of the cover asset-related repayments and any other changes, associated with these assets.

#### **Replacement of inadequate assets**

A cover register administrator must require from an issuer to replace receivables from inadequate mortgage loans with receivables from other mortgage loans or other suitable assets if (i) during the term of the mortgage loan the value of real property declines to such an extent that the value of the outstanding mortgage loan exceeds the legally prescribed level of mortgage lending value or the real property's general market value; (ii) the borrower falls behind in meeting its payment obligations under the loan agreement for more than 90 days; or (iii) the time limit for entering the mortgage in the Slovenian land register expires.

In case of a decline in the real property's general market value an issuer may nonetheless supplement existing receivables from mortgage loans by receivables from other mortgage loans or other suitable assets to the minimum extent of the deficit in the cover assets resulting from a decline in the real property's value (Article 31 of the Covered Bond Act).

#### **Role of the BoS**

The BoS carries out a constant supervision on the implementation of the Covered Bond Act (Article 53 of the Covered Bond Act). In addition, it grants and withdraws the licence, given to a bank prior to the issuance of covered bonds, as well as it grants and withdraws the license granted to a cover register administrator.

An issuer is required to send to the BoS an extract from the cover register, signed by a cover register administrator, every three months (Article 52 (1) of the Covered Bond Act). Similarly, a cover register administrator and a cover assets trustee have to report to the BoS both on a regular basis and on request.

## **VII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

### **Segregation of cover assets**

Cover assets, entered in the cover register, remain the property of an issuer and are intended primarily for the payment of obligations under covered bonds and derivative instruments that are included in the cover assets (Article 3 (1) of the Covered Bond Act). Moreover, (substitute) cover assets must be free from any encumbrances and cannot be used or pledged for any other purpose (Articles 19 (4) and 20 (2) of the Covered Bond Act).

The issuer must further ensure that services related to granting mortgage loans and loans to entities governed by public law as well as services related to the issuance of mortgage and municipal bonds are conducted separately from the bank's other operations. This encompasses also separate keeping of the books of account, other records and documents (Articles 9 (1) and 10 of the Covered Bond Act).

Only the obligations of the issuer under covered bonds and derivative financial instruments can be enforced against the cover assets (Article 37 (5) of the Covered Bond Act). The law also limits the type of claims that can be – under certain conditions – subject to set-off rights of debtors and their guarantors whose liabilities are included in the cover pool (Article 37 (6) of the Covered Bond Act).

### **Bankruptcy remoteness of covered bonds**

Cover assets are part of the general estate of a bank as long as an issuer is solvent. Upon the commencement of the issuer's insolvency proceedings<sup>7</sup>, the cover assets are automatically separated from the issuer's general insolvency estate. Moreover, covered bond holders and creditors under derivative financial instruments have a primary secured claim (costs included) against all assets in the cover pool. However, in their mutual relationship holders of covered bonds and creditors under derivative financial instruments have the same order of priority (i.g. rank pari passu) (Articles 44 (1, 3) and 45 (1, 2) of the Covered Bond Act).

It is important to note that covered bonds and derivative financial instruments do not automatically accelerate as soon as an issuer is insolvent. On the contrary, they are repaid at the time of their contractual maturity. On the proposal of the BoS the insolvency court appoints a cover assets trustee (who must not be the same person as an issuer's insolvency administrator) and he deals with the management and disposal of the cover assets to the extent that is necessary for the continuous timely payment of obligations under covered bonds and derivative financial instruments. Moreover, a covered assets trustee is entitled to obtain liquidity loans in order to ensure continuous compliance with the payment obligations under covered bonds and derivative financial instruments for what no approval of the insolvency court is needed. Only if the redemption of covered bonds prior to their maturity will result in better terms for repayment of the issuer's obligations under covered bonds and derivative financial instruments, a cover assets trustee may ask the insolvency court for approval on the acceleration (Articles 18 and 47 (1-3) of the Covered Bond Act).

In case that the cover assets prove insufficient to ensure the continuous payment of obligations under covered bonds and derivative financial instruments, a separate insolvency proceeding is initiated against the cover assets on the request of the BoS. Moreover, if such separate insolvency proceedings still do not result in a full payment of the obligations under covered bonds and derivative financial instruments, the holders of covered bonds and the creditors under derivative financial instruments are entitled to lodge a claim for the remaining part of their receivables in the issuer's general insolvency proceedings (Article 49 (1-3) of the Covered Bond Act).

<sup>7</sup> Similarly, in case of the withdrawal of the licence to issue covered bonds (Article 15 of the Covered Bond Act).

It should be added that an issuer's insolvency administrator is entitled to request the cover assets trustee to transfer to the issuer's insolvency estate a certain part of the cover assets that will, beyond any doubt, not be required for the payment of obligations under covered bonds and derivative financial instruments, included in the cover pool. The final decision on the transfer is made by the insolvency court. Furthermore, when all the obligations under covered bonds and derivative financial instruments have been paid, a cover assets trustee nevertheless transfers the remainder of the cover assets to the issuer's insolvency estate (Article 47 (5-7) of the Covered Bond Act).

Finally, the cover assets trustee can transfer the entire cover pool and all obligations arising out of the issued covered bonds to other issuer by a way of contract. A full transfer must be authorised by the BoS (Article 48 of the Covered Bond Act).

### **VIII. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

With the new Banking Act, adopted in May 2015, the Regulation on the Calculation of Capital Requirements for Credit Risk under the Standardised Approach for Banks and Savings Banks and the Regulation on the Calculation of Capital Requirements for Credit Risk under the Internal Ratings Based Approach for Banks and Savings Banks (both published in the Official Gazette of the Republic of Slovenia no. 135/06) ceased to be valid. Since then, the risk-weighting of covered bonds in Slovenia is regulated directly by Capital Requirements Regulation (CRR).

The provisions of the Covered Bond Act fall within the criteria of Article 129 (1) CRR as well as within the criteria of Article 52 (4) of the UCITS Directive.<sup>8</sup>

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/110/Slovenian\\_Covered\\_Bonds](https://www.ecbc.eu/framework/110/Slovenian_Covered_Bonds)

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<sup>8</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

## **3.36 SOUTH KOREA**

By Hoin Lee, Kim & Chang and Frank Will, HSBC & Chairman of the ECBC EU Legislation Working Group

### **I. FRAMEWORK**

#### **Efforts to create a covered bond market in Korea**

The Covered Bond Act of Korea (the "Covered Bond Act") was passed by the National Assembly on 19 December 2013 and came into effect on 15 April 2014. Prior to the enactment of the Covered Bond Act, domestic banks in Korea had been looking at covered bonds as a potential alternative source of funding and the Korea Federation of Banks, a major association of banks in Korea, set up a task force team in 2008 to pursue the introduction of covered bonds in Korea, including by way of a dedicated covered bond statute. Even prior to the Korea Federation of Banks task force team, market participants were looking into alternative structured covered bond structures utilising Korea's Act on Asset-Backed Securitisation (the "ABS Act").

Such efforts eventually led to Kookmin Bank's offshore covered bond issuance in May 2009 (the "KB Structured Covered Bonds"). Kookmin Bank developed a structure on the basis of the securitisation techniques under the ABS Act and the Trust Act that enabled the relevant asset pool to be "ringfenced" and effectively granted dual-recourse to its investors through contractual arrangements. The KB Structured Covered Bonds were the first covered bonds issued out of Korea and the Asia-Pacific region.

Separately, in July 2010, the Korea Housing Finance Corporation ("KHFC") issued the second covered bond out of Korea and the first statutory covered bond transaction out of Asia. KHFC utilised the "mortgaged-backed bonds" (the "KHFC Covered Bonds") under the Korea Housing Corporation Act (the "KHFC Act") in issuing the covered bonds. Mortgaged-backed bonds are economically similar to covered bonds because the bond holders have a statutory priority right over a pool of assets segregated from the other assets of KHFC.

The successful issuance of the KHFC Covered Bonds in 2010 stimulated new interest for covered bonds in Korea, with KHFC Covered Bonds being considered as a potential alternative to traditional residential mortgage backed securities (RMBS) transactions as a funding source for Korean mortgage lenders. Several follow-on transactions have been completed that utilise KHFC as the issuer and the dual recourse feature of mortgage-backed bonds under the KHFC Act. KHFC issued (i) EUR 500 mn of euro denominated social covered bonds in October 2018, (ii) EUR 500 mn of ECBC Covered Bond-labeled social covered bonds with a AAA rating in June 2019, (iii) EUR 1 bn of ECBC Covered Bond-labeled social covered bonds with a AAA rating in February 2020 and (iv) EUR 500 mn of ECBC Covered Bond-labeled social covered bonds with a AAA rating in July 2020. KHFC's June 2019 social covered bond offering was the first Euro denominated social bond issued by a Korean issuer.

Following the enactment of the Covered Bond Act, on 12 June 2015, Kookmin Bank became the first bank in Korea to set up a global covered bond programme pursuant to the Covered Bond Act, which it listed on the Luxembourg Stock Exchange. The KB Covered Bond Programme was the first covered bond programme by an Asian financial institution to be listed and obtained ratings of AAA and Aaa from Fitch and Moody's, respectively. These ratings were higher than Kookmin Bank's ratings (A1 at that time) and even Korea's sovereign ratings (AA, Aa2). This enabled Kookmin Bank to procure funds from the offshore market at reduced costs in subsequent issuances. In October 2015, Kookmin Bank issued the first covered bonds under the KB Covered Bond Programme followed by a second transaction in February 2016 and a third transaction in December 2018. Kookmin Bank established a new global covered bond programme in April 2020, which it listed on the Singapore Stock Exchange and for which it obtained ratings of AAA from each of Fitch and S&P. Kookmin Bank issued EUR 500 mn of ECBC Covered Bond-labeled social covered bonds with AAA ratings in July 2020 off of this programme. In light of the successful issuances by Kookmin Bank, other commercial banks began showing increased interest in covered bonds as an alternative, long-term funding source. Hana Bank set up a global covered bond programme in December 2020 pursuant to the Covered Bond Act with ratings of AAA

from Fitch and S&P, under which it issued ERU 500 mn of ECBC Covered Bond-labeled social covered bonds with AAA ratings in January 2021.

On January 31, 2019, the Financial Service Commission ("FSC") announced several measures to stimulate the use of covered bonds as a means to stabilise household debts. The measures included the following: 1) reducing covered bond issuance expenses by exempting registration fees payable to the Korean Financial Supervisory Service, 2) expanding the current limit of 1% in recognising funds raised from covered bond issuances with a maturity of five years or more as Korean-won deposits when calculating loan-to-deposit ratios, 3) reducing the contribution fee to the Housing Credit Guarantee Fund on the issuance of covered bonds, and 4) (effective in 2022) applying lower risk weights in calculating BIS or RBS when a bank or an insurance company invests in covered bonds. These governmental efforts appear to have further catalysed the domestic covered bond market. For example, on 14 May 2019, Kookmin Bank issued a KRW 400 bn covered bond with a five-year maturity and a KRW 100bn covered bond with a seven-year maturity pursuant to the Covered Bond Act, both of which represented tenures previously not seen in the domestic covered bond market. Five Korean commercial banks issued to date Korean won covered bond in a total amount of KRW 4,950 bn. Besides these banks, other domestic banks are also in the process of issuing covered bonds.

## **II. STRUCTURE OF THE ISSUER**

### **1. KHFC Act**

#### **Eligible issuer**

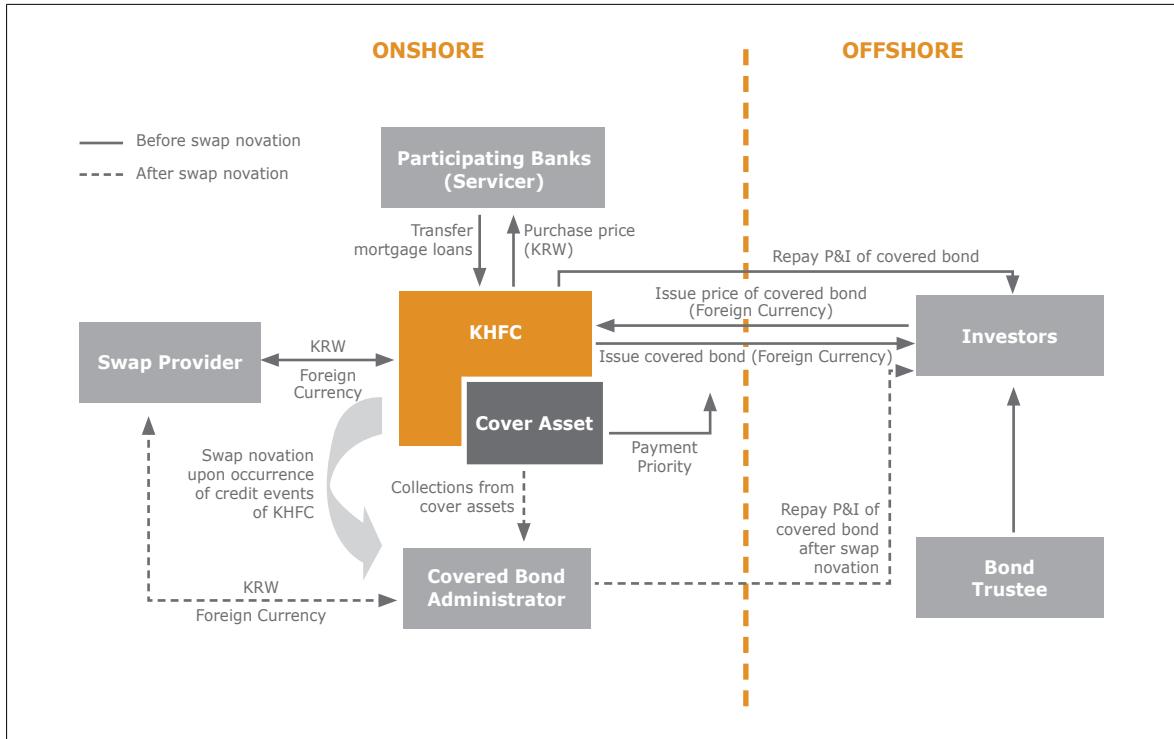
KHFC, which is wholly owned by the Korean government and the Bank of Korea, is the only eligible issuer of KHFC Covered Bonds. Pursuant to Article 31 of the KHFC Act, the holders of KHFC Covered Bonds have a statutory priority right of payment from a separately managed pool of mortgage loans designated as the underlying collateral for KHFC Covered Bonds (the "KHFC Cover Pool"). In addition, if principal and interest on a KHFC Covered Bond are not fully paid out of the KHFC Cover Pool, it can be paid from the general assets of KHFC. KHFC issues these bonds without transferring the cover assets to a separate legal entity and the bankruptcy remote cover assets are left on KHFC's balance sheet. The investors have dual recourse in respect of the KHFC Covered Bonds: (a) a senior unsecured claim to KHFC prior to the occurrence of an issuer event of default or at maturity; and (b) a statutory priority right of payment over the KHFC Cover Pool upon the occurrence of an issuer event of default.

In the case of KHFC Covered Bonds issued offshore, KHFC enters into a cross currency swap agreement and an interest rate swap agreement with the swap providers, pursuant to which KHFC will deliver KRW interest periodically and principal at maturity to the swap providers in exchange for foreign currency payments. The swap providers pay foreign currency denominated interest periodically and principal at maturity. The swap agreement is subject to an automatic swap novation mechanism (the "Swap Novation") in which the swap providers, KHFC, and the swap delegate entered into a tripartite automatic novation agreement at the closing date, which states that the swap agreement will be automatically terminated with KHFC and novated to the swap delegate upon the occurrence of certain events of default regarding KHFC, and that the mark-to-market valuation of the swap agreement as of the novation date will not be exchanged between KHFC and the swap providers or between KHFC and the swap delegate.

Subsequent to such events of default, the swap delegate will pay KRW generated from the KHFC Cover Pool to the swap providers in exchange for the foreign currency denominated payments, and the swap providers will pay the foreign currency denominated interest periodically and principal at maturity.

The following diagram illustrates the structure of the KHFC Covered Bonds transaction.

FIGURE 1: KHFC COVERED BONDS TRANSACTION STRUCTURE



Source: Kim & Chang

### Issuance limit

KHFC may issue KHFC Covered Bonds up to 50 times of its paid-in equity capital.

### 2. Covered Bond Act

#### Eligible issuer

Eligible issuers of covered bonds under the Covered Bond Act (the “Covered Bonds”) include (i) banks licensed and established under the Bank Act of Korea, (ii) the Korea Development Bank, (iii) the Export-Import Bank of Korea, (iv) the Industrial Bank of Korea, (v) Nonghyup Bank, (vi) Suhyup Bank, or (vii) KHFC. Eligible issuers of Covered Bonds, however, must have equity capital of not less than KRW 100 bn, BIS ratio of not less than 10%, and appropriate funding and operation structures and risk management procedures, etc.

#### Issuance limit

The Covered Bond Act prescribes that eligible issuers may issue Covered Bonds up to the ceiling set by the Presidential Decree of the Covered Bond Act (the “Presidential Decree”) which shall not exceed 8% of its total assets as of the end of the fiscal year immediately preceding the scheduled date of issuance and the Presidential Decree limits this to 4% of its total assets as of the end of the fiscal year immediately preceding the scheduled date of issuance. The FSC, as the Korean financial regulator, reserves the right to restrict this further to 2% of its total assets taking into consideration various factors, such as collateralisation ratio and financial condition including liquidity position.

### **III. COVER ASSETS**

#### **1. KHFC Act**

The mortgage loans in the KHFC Cover Pool are acquired from certain Korean financial institutions that function as the originating banks. The individual mortgage loans included in the KHFC Cover Pool may change from time to time as a result of substitutions by KHFC, and KHFC is responsible for ensuring that the mortgage loans are properly serviced and delegates its servicing responsibility to the originating banks, with each originating bank servicing those mortgage loans originated and sold by it to KHFC.

#### **2. Covered Bond Act**

The cover pool (the "Cover Pool") shall comprise of (1) the Underlying Assets, (2) the Liquid Assets and (3) Other Assets. The "Underlying Assets" shall include (i) residential mortgage loans with 70% or lower loan-to-value (LTV) ratio and first priority mortgage, obligors of which are not subject to insolvency proceedings, (ii) loan receivables against the government, a local government or a corporation incorporated under the special laws, Korean Treasury bonds, municipal bonds or bonds issued by a corporation incorporated under the special laws, (iii) mortgage loans secured by ships or aircraft with 70% or lower LTV ratio and is insured for an amount in excess of 110% of the sum of (a) the aggregate outstanding balance of the relevant loan and (b) any other outstanding debt of the issuer that are at least *pari passu* with such loan and (iv) asset backed securities issued under the ABS Act and KHFC Covered Bonds and residential mortgage backed securities issued pursuant to the KHFC Act. The following limitations are applicable to the residential mortgage loans comprising the Underlying Assets: (x) at least 20% must have a debt-to-income (DTI) ratio of 70% or less, (y) at least 30% must be fixed rate loans, and (z) if there are residential mortgage loans of which 50% or more of their outstanding principal balance may be set off against the relevant issuer, such residential mortgage loans should comprise 10% or less of all residential mortgage loans. The "Liquid Assets" shall comprise of cash, certificates of deposit with a maturity of no more than 100 days issued by financial companies other than the issuer of the Covered Bonds, bonds issued by any government as prescribed by the FSC, financial instruments issued by foreign financial companies as prescribed by the FSC similar to the certificates of deposit referred to above and deposits and term deposits at either domestic or foreign financial companies with maturity of 3 months or less. Finally, "Other Assets" shall comprise of collections and other property rights acquired from the Underlying Assets and the Liquid Assets and the claims acquired from derivatives transactions executed in order to hedge foreign exchange rate or interest rate risks and other risks associated with the cover pool pursuant to the Covered Bond issuance plan.

### **IV. VALUATION AND LTV CRITERIA**

#### **1. KHFC Act**

There is no statutory standard for valuation of residential mortgage loans that are included in KHFC Cover Pool. Instead, the valuation methods are set forth in individual transaction documents for the KHFC Covered Bonds which value residential mortgage loans between 100% and 0%, depending on the length of delinquency.

#### **2. Covered Bond Act**

LTVs for residential mortgage loans as well as loans secured by ships or aircrafts in the Cover Pool shall be 70% or lower. Valuation shall be carried out by reference to the closing market price of the relevant day on the securities exchange. In cases where no reliable market prices are available on the relevant day, book value, par value, purchase price, transaction price and price provided by an entity which satisfies statutory requirements shall be taken into account, alongside the prevailing exchange rate at the time of valuation. Where derivative transactions have been entered into for the purpose of hedging exposure to movements in foreign currency exchange rates, the exchange rates as specified in such derivative transactions themselves shall be used, and non-eligible assets and derivative transactions shall be valued at "0".

## **V. HEDGING AND ASSET – LIABILITY MANAGEMENT**

### **1. KHFC Act**

In the case of KHFC Covered Bonds issued offshore, the underlying residential mortgage loans are denominated in KRW but the KHFC Covered Bonds are issued in foreign currency and KHFC entered into swap agreements to hedge the resulting currency risk. This swap agreement is subject to the Swap Novation described above. There are no statutory regulations on overcollateralisation or excess yield of collateralised assets. However, the transaction documents in previous KHFC Covered Bonds have required the KHFC Cover Pool to satisfy an asset coverage test and the failure for the KHFC Cover Pool to satisfy the foregoing test for a certain period of time becomes an issuer event of default which in turn triggers the management of the KHFC Cover Pool to be transferred to a separately appointed swap delegate, in addition to the above-mentioned Swap Novation.

### **2. Covered Bond Act**

The total value of the Cover Pool shall be equal to or more than 105% (the "Required Overcollateralisation Ratio") of the total value of the covered bonds and the liquid assets shall not exceed 10% of the total outstanding amount of the Cover Pool. The details of the valuation standard and method, etc. for each type of assets comprising the cover pool are prescribed by the Presidential Decree. The issuer shall prepare and maintain separate books for the management of the Cover Pool. If the total value of the Cover Pool is likely to fall below the Required Overcollateralisation Ratio or cover assets fail to satisfy the Cover Pool eligibility criteria set forth in the Covered Bond Act (the "Cover Asset Eligibility"), the issuer shall add or substitute the Underlying Assets and Liquid Assets without delay in order to comply with the Required Overcollateralisation Ratio and the Cover Asset Eligibility. Unlike the KHFC Act, the claims acquired from derivatives transactions executed in order to hedge foreign exchange rate or interest rate risks and other risks associated with the Cover Pool pursuant to the Covered Bond issuance plan are included in the Cover Pool as described above and the swap provider also has a priority right of payment from the Cover Pool under the Covered Bond Act. As such, we do not expect there to be a particular need to novate the relevant swap agreement to a third party.

## **VI. TRANSPARENCY**

### **1. KHFC**

To issue KHFC Covered Bonds, KHFC must register a securitisation plan with the FSC and this securitisation plan is available to the public on the FSS website. Amendments to the securitisation plan after the terms and conditions of the KHFC Covered Bonds are confirmed must also be registered with the FSC.

### **2. Covered Bond Act**

Any eligible issuer that intends to issue Covered Bonds must register the Covered Bond issuance plan and details of the Cover Pool with the FSC. The issuer must also register amendments to the issuance plan or the matters concerning the Cover Pool, while minor changes shall be reported to the FSC within seven days from the date of such change.

The issuer is required to establish and monitor at least on a quarterly basis separate risk management standards and procedures relating to the issuance and redemption of the Covered Bonds. The issuer is also obligated to disclose on its website on a quarterly basis the result of risk management monitoring, the report prepared by the Cover Pool monitor and other information necessary. The FSC may request data concerning business or properties of the issuer and its administrator and the Cover Pool monitor, or investigate such business and properties if necessary, for protecting the Covered Bond investors.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

### **1. KHFC Act**

There are no explicit provisions in the KHFC Act on the KHFC Cover Pool monitor but independent third parties are appointed to supervise and monitor KHFC's management of the KHFC Cover Pool. For example, an accounting firm has been appointed as the cover pool monitor in previous KHFC Covered Bond issuances to be responsible for confirming whether the KHFC Cover Pool minimum maintenance requirements have been satisfied. In addition, the KHFC Covered Bond administrator is appointed in advance for the management of the Cover Pool in order to protect the KHFC Covered Bond holders upon occurrence of any issuer event of default including a bankruptcy event of KHFC.

### **2. Covered Bond Act**

The issuer shall appoint with the approval from the FSC a Cover Pool monitor to monitor the eligibility of the Cover Pool independently. The Cover Pool monitor shall be (i) a person who qualifies as a bond administrator under the Korean Commercial Code, (ii) KHFC (excluding the case where the issuer is KHFC) or (iii) a corporation with equity capital of KRW 1 bn or more that has five or more administration personnel necessary for the performance of duties as a Cover Pool monitor including two or more experts such as lawyers, certified public accountants or certified public appraisers and one or more persons with experience in business related to Covered Bonds.

The Cover Pool monitor is authorised to take any actions in court or otherwise necessary for the management, maintenance and disposition of the Cover Pool. The Cover Pool monitor is obligated to submit on a quarterly basis a report to the FSC within 30 days of the end of each quarter on the performance of its duty as a Cover Pool monitor and provide it to the issuer and, upon request, the Covered Bond investors and other parties, as described below, who have a priority right of payment from the registered Cover Pool.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

### **1. KHFC Act**

Articles 30 and 31 of the KHFC Act state that (i) KHFC may issue the KHFC Covered Bonds with a statutory priority right of payment over the mortgage loans separately managed in accordance with the applicable KHFC Act securitisation plan, and (ii) if mortgage loans in the KHFC Cover Pool are separately managed according to the applicable KHFC Act securitisation plan, the investors will have a priority right of payment against such mortgage loans unless otherwise prescribed in other laws. Considering the legislative intent and history of these provisions, the statutory priority right of payment over the mortgage loans owned by KHFC was considered as having been granted to the investors through the registration with the FSC of the applicable KHFC Act securitisation plan without taking any other actions necessary for the establishment or perfection of the statutory priority right.

KHFC is required to separately manage the mortgage loans included in the Cover Pool from its other assets on the basis of the applicable KHFC Act securitisation plan.

### **2. Covered Bond Act**

Article 13 of the Covered Bond Act states that (i) holders of Covered Bonds, (ii) swap providers, (iii) claim-holders relating to the redemption/maintenance and management of the Covered Bonds and management/disposal and execution of the Cover Pool, and (iv) the Cover Pool monitor have a priority right of payment on the registered Cover Pool over third parties. Article 12 of the Covered Bond Act states that, in case of an issuer's insolvency, the Cover Pool shall not be subject to the issuer's insolvency proceedings, including compulsory execution, preservative measures and stay orders. If the principal of the Covered Bonds is not fully repaid, Covered Bond holders have the right to payment from other assets of the issuer in addition to the Cover Pool.

# SOUTH KOREA

With the consent of the holders of at least 75% of the aggregate outstanding principal amount of the Covered Bonds, FSC may issue an order to transfer relevant contracts to another eligible issuer.

The issuer is required to separately manage the mortgage loans included in a Cover Pool from its other assets on the basis of the applicable issuance plan. The books for the Cover Pool must also be separately maintained and any violation may be subject to criminal sanctions.

## **IX. RISK-WEIGHTING AND COMPLIANCE WITH EUROPEAN REGULATION**

The Covered Bonds under the Covered Bond Act and the KHFC Covered Bonds under the KHFC Act are not compliant with Article 52(4) UCIT and do not benefit from the higher investment limits because neither KHFC nor any of the potential South Korean issuers of the covered bonds is a credit institution with its registered office in a EU member state. These covered bonds cannot be CRD compliant without meeting the requirements of Article 52(4) UCITS.<sup>1</sup> Thus, the covered bonds cannot benefit from special treatment in terms of risk weighting.

**Issuers:** Korea Housing Finance Corporation and Kookmin Bank.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/107/South\\_Korean\\_Covered\\_Bonds](https://www.ecbc.eu/framework/107/South_Korean_Covered_Bonds)



COVERED BOND : Korea Housing Finance Corporation (1 pool).

<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.



**3.37 SPAIN**

By Gregorio Arranz, Spanish Mortgage Association

**I. FRAMEWORK**

The legal framework for Spanish covered bonds – “Cédulas hipotecarias” (CHs) – is determined by the Law 2/1981 of 25 March on the regulation of the mortgage market (hereinafter, “Law 2/1981”), Law 41/2007 of 7 December, by which Law 2/1981 of 25 March, regulating the mortgage market and other rules of the mortgage and financial system are modified, reverse mortgages and long-term care insurance are regulated and certain tax regulations are established (hereinafter, Law “41/2007”) and the Royal Decree 716/2009 of 24 April, which develops certain aspects of Law 2/1981 and other rules of the mortgage and financial system (hereinafter, “RD 716/2009”).

As regards consumer protection, firstly in May 2013, a Law on protection of mortgage debtors, restructuring of mortgage debt and rented social housing was approved and partially affected mortgage and procedural laws and some very specific points of Law 2/81 referred below. On 15 March 2019 it was finally approved the Law 5/2019 in order to incorporate Directive 2014/17/EU relating to residential immovable property. The new regulation was subsequently developed by secondary legislation, namely Royal Decree 309/2019 and Ministerial Order ECE 482/2019 both of 26 April. More recently, and due to the COVID-19 pandemic, a mortgage debt moratorium was approved by Royal Decree-Law 8/2020 of 17 March (amended by different subsequent decree-laws).

Regarding bankruptcy regulation, Article 14 of Law 2/1981 (modified by the 19<sup>th</sup> final provision of Law 22/2003 of 9 July, hereinafter the “Insolvency Law”, and by Law 41/2007) provides for a special treatment for the holders of the CHs in case of insolvency of the issuer. According to this article, CH holders have special privileged claims (*créditos con privilegio especial*) as established in Article 90 of the Insolvency Law.

Article 12 of Law 2/1981 defines that the capital and interests of the CH are secured by the entire mortgage loan book registered in favour of the CH issuer (excl. loans used in securitisations or loans securing mortgage bonds).

Moreover, Article 14 of Law 2/1981 determines that in case of issuer insolvency claims of CH holders shall be treated as privileged claims against the insolvency estate (*créditos contra la masa*). It shall be considered as credits against the mass: all the payments which correspond to the repayment of the capital and interest of the issued *cédulas hipotecarias* and, if any, to the substitution assets which backup the *cédulas hipotecarias* and the economic flows generated by the financial instruments linked to the issues (Article of 14 Law 2/1981). Pursuant to Article 84(2)(7), in combination with Article 154 of the Insolvency Law, claims against the insolvency estate have to be paid on their respective due dates without delay of payment, regardless of the status of the bankruptcy proceedings.

In addition, the second additional provision of the Insolvency Law, modified by Royal Decree – Law 3/2009 of 27 March, establishes that in case of insolvency of credit institutions, their specific legislation, specifically Article 10, Article 14 and Article 15 of Law 2/1981 of the mortgage market, shall be applicable. As a result, the mortgage market law supersedes the Insolvency Law.

**II. STRUCTURE OF THE ISSUER**

Issuers of CHs have to be credit institutions, entitled to participate in the mortgage market and thus, to grant the mortgage credits or loans that comply with the requirements of the Spanish mortgage market legislation. In practice, issuers of CH are mainly: commercial banks, saving banks and cooperative banks.

The issuer of the CHs holds the cover assets on his balance sheet and they are not transferred to a different legal entity.

The CHs, in addition to being direct, unconditional obligations of the issuer and without prejudice to the unlimited universal nature of the liability, comprise a special privileged credit right of its holder against the issuer, and if any, against the substitution assets which backup the *cédulas hipotecarias* and the economic flows

generated by the financial instruments linked to each issue. This right is guaranteed by the entire mortgage loan book registered in favour of the issuer. The effectiveness of this right is also guaranteed by the existence of mandatory over-collateralisation.

Although in recent years and until April 2020 no changes to the covered bonds legal framework have been introduced, it is worth to mention that the Spanish Treasury launched on March 2 of 2020 a public consultation on potential changes to the legal regime of CHs in order to transpose the new Directive 2019/2162 on Covered Bonds into national Law.

The consultation was not only referred to the best way to fill in the “national discretions” the Directive contemplates, but also to other changes the Spanish legislation needs, such as aspects related to the bankruptcy legislation.

The consultation period ended on March 17 2020 and all the Spanish issuers responded through the Spanish Mortgage Association.

In their response there is clear preference for implementing all the measures the Directive envisages that can contribute to enhance the future regulation of the CHs even if they are not compulsory (e.g. cover pool monitor, maturity extensions...).

After said consultation on June 25 2021 a public consultation on a first draft of the future law was opened, being now clear that the transposition deadline (8 July 2021) is not going to be met.

Returning to the current regime, although there is no direct link between the covered bonds and the underlying mortgaged properties, there is a direct link between CHs and the cover assets.

Due to the status of the issuer as a credit institution, one of the requirements to conduct business is to have adequate human and material resources pursuant to the credit institution legislation.

The degree of outsourcing covered bond issuance activities is quite low, almost irrelevant. Usually, the outsourced service has to be provided by a well-known servicer with an adequate rating. In any case, the issuer is responsible and liable for the performance of the service.

It is important to point out that there is another Spanish covered bond called *Cédulas Territoriales* (CTs) with the same special privilege claim status as CHs. In this case, the cover asset pool consists of all loans to the Spanish State, its autonomous communities and local authorities, as well as their entities and dependent public companies and entities of a similar nature in the European Economic Area. The credit institutions may issue CTs up to 70% of the eligible public loan portfolio, resulting in a minimum over-collateralisation of 43%. Later on, the Law 14/2013 of 27 September on support for and the internationalisation of entrepreneurs created the so-called *Cédulas de Internacionalización* and *bonos de internacionalización* which are covered bonds very similar to *cédulas hipotecarias* and *bonos hipotecarios* (see below) where the cover asset pool consists of loans and credits associated with the financing of export agreements. Secondary legislation was approved by Royal Decree 579/2014 of 4 July but no significative issuances has taken place yet. The total amount cannot exceed 70% of the eligible amounts. Last but not least, a last type of covered bonds is the Bonos Hipotecarios that, although contemplated in Law 2/1981, have not been used for the time being. These bonds have specific mortgages as collateral and not the whole portfolio.

### **III. COVER ASSETS**

A distinction shall be made between cover assets and eligible assets.

Cover assets consists of the entire mortgage loan book registered in favour of the issuer. The special privileged claims of the holders of CHs are guaranteed by the cover asset pool and if any, by the substitution assets which backup the *cédulas hipotecarias* and the economic flows generated by the financial instruments linked to each issue.

The Law 2/1981 does not establish specific requirements for mortgage loans that constitute the cover asset pool.

For issuance purposes and their limits, it shall be considered as eligible assets in order to determine the maximum amount of CH issued and outstanding for a particular issuer.

All mortgage loans which comply with the following criteria are considered for the calculation of the maximum amount of CH issued and outstanding:

- > The object of the loan or credit must be the financing of the construction, reconstruction, or acquisition of residential premises, zoning works and social equipment, construction of agrarian buildings, tourist, industrial and commercial and any other activity or work and any other loan, regardless its purpose.
- > The mortgage that guarantees the loan or credit must be a first-ranked mortgage.
- > The loan or credit guaranteed may not exceed 60% (Article 5 of Law 2/1981 modified by Law 41/2007) of the mortgage lending value of the mortgaged asset, except for the financing of the construction, reconstruction or acquisition of residential premises, in which case it may reach 80% of such value.
- > The 80% limit in the ratio between the guaranteed loan or credit and the value of the mortgaged home mentioned in the previous section can be exceeded, without under any circumstances exceeding 95%, if the mortgage loan or credit has a bank guarantee provided by a different credit institution to the creditor or is covered by credit insurance. The bank guarantee or insurance shall be direct and will cover at least the amount of the guaranteed loan or credit which exceeds 80% of the valuation of the mortgaged asset and interests (Article 5 of RD 716/2009). Although the latter is a theoretical possibility as a matter of fact Spanish issuers have never utilized it.

Notwithstanding, mortgaged loans or credits that initially exceed these percentages can be used as cover assets for the issuance of CHs when, as a consequence of the repayment of their principal amount or the modification of the market value of the mortgaged properties the values do not exceed said LTV, in relation to the initial or revised valuation of the mortgaged asset.

The mortgaged properties must have been valued previously by the so-called "Sociedades de Tasación" or by the valuation services of the issuer.

- > The mortgaged assets must be insured against damages.
- > Residential mortgage loan cannot exceed 30 years.

Excluded from cover asset pool are special types of mortgage credits or loans, such as:

- > Those documented by way of registered securities, either to the order or bearer securities.
- > Those which are partially or totally due.
- > Those which have already been the subject of mortgage participations (*Participaciones Hipotecarias*, i.e. loans used in securitisations).
- > Those subject to senior mortgages or seizure.

The cover asset pool is defined as a dynamic cover pool. ABS/MBS or other assets are not allowed in the cover pool, but mortgages are allowed.

It has been a common practice for the issuer to hedge the interest rate risk by using the corresponding derivative instrument.

The institution issuing the *cédulas hipotecarias* will keep a special accounting register of the loans and credits that serve as collateral of the issues of *cédulas hipotecarias* and, if any, of the substitute assets fixed that cover them, as well as the derivative financial instruments linked to each issue. The annual accounts of the

issuing institution shall contain the essential details of said register (Article 12 of Law 2/1981, Article 21 of RD 716/2009 and Circular 7/2010 of 30 November of the Bank of Spain).

In order to guarantee the transparency of the cover assets, the issuers have to provide the Bank of Spain with a monthly cover pool report. Moreover, there is a general duty of disclosure as a result of the continuous supervisory power of the Bank of Spain.

#### **IV. VALUATION AND LTV CRITERIA**

According to mortgage market legislation, the value of the mortgaged property has to be appraised prior to the issuance of the CHs by specialised companies, the so-called “Sociedades de Tasación” or by the valuation services of the issuers.

As said before, for eligible assets, the loan or credit guaranteed may not exceed 60% (Article 5 of Law 2/1981 modified by Law 41/2007) of the mortgage lending value of the mortgaged asset, except for the financing of the construction, reconstruction or acquisition of residential premises, in which case it may reach 80% of such value.

The mortgage markets legislation also determines the regulation for the appraisal service and the requirements with which the specialised companies have to comply, such as, an exclusive corporate object, minimum corporate capital requirement, registration with the corresponding registry at the Bank of Spain. The last legal reform as of May 2013 prevents credit institutions from owning more than a 10% of appraisal companies' capital. Moreover, those entities are supervised and subject to inspection by the Bank of Spain. These rules were developed by the Ministerial Order of 27 March of 2003 in relation to the appraisal of real estate goods.

#### **V. ASSET – LIABILITY MANAGEMENT**

The volume of CHs issued and outstanding by a particular Issuer cannot exceed 80% (Article 16 of Law 2/81) of the sum of the unpaid principal amounts corresponding to all the mortgage credits or loans included in the Issuer's portfolio that comply with the requirements mentioned above under section III on cover assets. The issuer cannot issue CHs beyond these percentages at any time.

The *cédulas hipotecarias* can be backed up to a limit of 5% of the issued capital by substitution assets (fixed income securities issued by the State and other EU Member States, *cédulas hipotecarias*, mortgage bonds, securities issued by Mortgage Securitisation Funds or Asset Securitisation Funds and other fixed-income securities listed on an official secondary market or on a regulated market, with a credit rating equivalent to that of the Kingdom of Spain – Article 15 and Article 17 of Law 2/1981)

Notwithstanding this general statement, if the limit is surpassed due to increases in the redemption of the Eligible Assets or any other event whatsoever, the Issuer shall re-establish due balance by means of any of the following actions:

- > Cash deposit or deposit of government paper in the Central Bank of Spain.
- > Acquisition of CHs in the relevant marketplace.
- > Execution of new mortgage loans or acquisition of mortgage participations provided that they are eligible to cover CHs.
- > Redemption of CHs by the pertinent amount until balance has been reinstated, which, if necessary, can be executed through early redemption and drawing the number of securities to be redeemed by lot.

As a general remark it should be noted that it has been a common practice for the issuer to hedge interest rate risk.

*Concerning foreign exchange risks, there is no legal provision in relation to it.*

*Other risks such as early repayment, reinvestment, etc. are also mitigated by the 25% overcollateralisation as well as by the dynamic nature and structure of the cover pool.*

## **VI. TRANSPARENCY**

As mentioned above (Section III, Cover Assets) Spanish legislation obliges Spanish issuers of covered bonds to keep a special and very complete register of their loans and credits. The annual accounts have to contain additionally the essential details of said register.

On top of that, main Spanish issuers of CH, coordinated by the Spanish Mortgage Association, and since the end of 2011, have created a transparency template, consistent with the guidelines of the ECBC Label Initiative. This last version meets the requirements of Article 129(7) of the Capital Requirements Regulation (CRR).

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The Spanish legislation does not require a special pool monitor other than the supervision on a continuous basis by the Bank of Spain which includes the periodic disclosure of information regarding cover assets by credit institutions.

The Bank of Spain beyond its regular prudential supervision is responsible for specifically supervising compliance with the limits and regulatory requirements and is entitled to adopt measures in order to mitigate any breach or deviation from the regulation, including sanctioning such breach or failure.

A "special" supervision is also carried out by the Comisión Nacional del Mercado de Valores (hereinafter, "CNMV"). The CNMV may also monitor and supervise compliance with statutory requirements and limits upon approval of the issuance and clearly supervise the placing process.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

### **Identification of the cover assets**

Any mortgage that is originated in Spain must be registered in the Land Registry. Consequently, the Land Registry is the cover registry which records all the mortgages serving as the collateral for the CHs.

### **Asset segregation from the insolvency estate**

Article 14 of Law 2/1981 of the regulation of the mortgage market stipulates that the institution issuing the cédulas will keep a special accounting register. This provides the legal framework regarding the position of the rights of the holders of the CHs in case of insolvency of the Spanish issuer.

In this respect, it is worth pointing out the following relevant issues:

1. According to Article 14 of Law 2/1981 claims of CH holders have to be treated as privileged claims against the insolvency estate (*créditos contra la masa*). Article 84(2)(7) and Article 154 of the Insolvency Law require that claims against the insolvency estate have to be paid by the insolvency administrators on their respective due dates without delay of payment, regardless of the status of the bankruptcy proceedings.

In the case of CH, the claims of the CH holders are secured by the entire mortgage loan book registered in favour of the CH issuer (Article 12 of Law 2/1981) and if any, by the substitution assets which backup the *cédulas hipotecarias* and the economic flows generated by the financial instruments linked to each issue. The definition as stated by the Insolvency Law implies the application of the special rule of payment without enforcement of the collateral.

The Insolvency administration is not entitled to adopt any decision against said legal provision and has to use the proceeds from the issuer's mortgage loan book to satisfy CH principle and interest payments on their respective due dates without delay of payments.

2. The Insolvency administrators are obliged to pay such amounts as long as the cash flows produced by the cover assets are sufficient to meet the CHs payments pursuant to Article 84(2)(7) of the Insolvency Law.

In this respect, the Insolvency Law provides a clear definition of the claims of CH holders as special privileged claims without enforcement of the collateral. It also provides an unequivocal classification of the claims of CH holders, as claims against the insolvency estate and clear identification of the cover assets, which are reserved to meet the claims of the CH holders.

All of the holders of *cédulas hipotecarias*, whatever their date of issue, shall have the same preference over the loans and credits covering them and if any, to the substitution assets which backup the *cédulas hipotecarias* and the economic flows generated by the financial instruments linked to each issue.

3. The payments to be effected by the debtor comprise all those deriving from principal and interest of the issued and outstanding CHs on the date on which the Insolvency is declared. All CH payments have to be met on their respective due dates, regardless of the status of the bankruptcy proceedings. In the case where the cover assets are insufficient to meet the CH payments, the claims of the CH holders will be realised. The payment to all of the *cédulas hipotecarias* owners shall be done on a pro rata basis, regardless of the issue date of their securities. (Article 14 of Law 2/1981). In the case of insufficient cover assets, all CH holders' claims will be met on a pro-rata basis together with ordinary claims (Article 157(2) of the Insolvency Law).

A judicial stay (moratorium) on the insolvency's estate cannot delay the cash flows from the cover assets and, therefore, endanger the timely payment of interest and the principle on CHs.

In case of insolvency of the issuer, liquidity is ensured by the means discussed above, by the flows derived from the cover assets.

In order to comply with the payment obligations to the holders of the *cédulas hipotecarias* in the event of a temporary gap in the revenue received by the debtor, payments shall be made by means of liquidating the substitution assets serving as collateral of the issue. If this was insufficient, payments shall be made by means of funding operations via subrogation of the debtor in the position of the holder of the *cédulas* (Article 14 of Law 2/1981).

#### **Administration of the cover assets**

In case of insolvency, it is the normal insolvency administrator who administers the cover assets. In this respect, under Spanish Insolvency Law, the bankruptcy is directed by commercial court of competent jurisdiction and managed by a specific body called the "bankruptcy authority" (*administración concursal*) normally comprising a single person.

#### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The legislation when taken together with the practices, processes and procedures across the industry should fall within the criteria of Article 129 of the Capital Requirements Regulation (CRR). The Spanish covered bonds fulfil the criteria of Article 52(4) UCITS and Article 129 CRR.<sup>1</sup>

Finally, the CHs upon being listed or applied for listing are eligible for: i) investment by insurance companies of their technical provisions obligations; ii) the investment by mutual guarantee companies; iii) investment by Pensions Funds.

**Issuers:** ABANCA Corporación Bancaria, S.A., Banco de Sabadell, S.A., Banco Santander S.A., Bankia, Bankinter, S.A., BBVA, CaixaBank SA, Caja Rural de Navarra, Credit Cooperative, Eurocaja Rural, Grupo Cooperativo Cajamar, Ibercaja Banco S.A., Kutxabank S.A., Unicaja Banco SA.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/45/C%C3%A9dulas\\_Hipotecarias\\_-\\_CH](https://www.ecbc.eu/framework/45/C%C3%A9dulas_Hipotecarias_-_CH)

 **COVERED BOND** : Banco de Sabadell, S.A. (2 pool), Bankia (1 pool), CaixaBank SA (2 pool), Banco Santander S.A. (2 pool), Kutxabank S.A. (1 pool), Unicaja Banco SA (1 pool), BBVA (2 pool), Bankinter, S.A. (1 pool), Ibercaja Banco S.A. (1 pool), Eurocaja Rural (1 pool), Caja Rural de Navarra, Credit Cooperative (1 pool), ABANCA Corporación Bancaria, S.A. (1 pool), Grupo Cooperativo Cajamar (1 pool).

<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.

### **3.38 SWEDEN**

By Jonny Sylvén, Association of Swedish Covered Bond Issuers (ASCB)

#### **I. FRAMEWORK**

Sweden has not, at this time, implemented the CBD so this is a description of the framework before the changes that will come with the implementation of the CBD.

In Sweden, the issuance of covered bonds is governed by the Swedish Covered Bonds Issuance Act ('CBIA'), which came into force on 1 July 2004<sup>1</sup>. The CBIA prevails over the general bankruptcy regulation and grants covered bond investors a priority claim on the eligible cover assets. A regulation and guidelines from Finansinspektionen, the Swedish Financial Supervisory Authority ('SFSA'), complement the legislation. In the SFSA regulation and guidelines, the detailed criteria for obtaining authorisation to issue covered bonds, the cover pool requirements, the coverage requirements and the requirements regarding the cover register are specified.

#### **II. STRUCTURE OF THE ISSUER**

The CBIA allows for all banks and credit institutions to issue covered bonds, provided that they have obtained a special authorisation from the SFSA. The issuer has to meet certain criteria to qualify for the authorisation. These criteria include the submission of a financial plan showing the issuer's financial stability for the coming three years, the conversion of any outstanding mortgage bonds into covered bonds and the conduct of business in compliance with the CBIA. The SFSA has the right to withdraw the authorisation should the institution be in material breach of the CBIA or have failed to issue covered bonds within one year of receiving the authorisation (Figure 1). If the SFSA withdraws an authorisation, the SFSA may lay down a plan to wind down the operation.

> FIGURE 1: AUTHORISATION REQUIRED TO ISSUE COVERED BONDS

##### **Requirements for authorisation to issue covered bonds:**

- > The institution's articles of association, by laws or regulations must comply with the CBIA.
- > The issuer must conduct the covered bonds business according to the CBIA and related regulatory provisions.
- > Any outstanding mortgage bonds must be converted into covered bonds or administered in an equivalent manner with respect to the creditors.
- > A financial plan for the next three fiscal years, confirmed by auditors, showing that the issuer is sufficiently stable and that the interest of other creditors is not jeopardised when it issues covered bonds.
- > The issuers have to submit an operational plan that shows sound management and supervision of the covered bond business (including information on the IT operations).

##### **The SFSA may withdraw an authorisation if:**

- > The institution is in material breach of its obligations pursuant to the CBIA; and/or
- > The institution has failed to issue any covered bonds within one year of receiving the authorisation.

Source: Lag 2003:1223, FFFS 2013:01

The cover assets correspond to the covered bond investors claims on the issuer and remain on the balance sheet, i.e. there is no transfer of the cover assets to a separate legal entity. The covered bonds are direct, unconditional obligations on the part of the issuer. The cover pool is dynamic and the outstanding covered bonds are secured by the whole cover pool; the individual cover bonds are not linked to any specific cover assets.

1 Lag (2003:1223) om utgivning av säkerställda obligationer (the Covered Bonds Issuance Act).

2 FFFS 2013:01 Finansinspektionen's Regulations and Guidelines regarding covered bonds.

In the event of insolvency of the issuer, the cover pool is bankruptcy-remote and not included in the general insolvency estate of the issuer but is exclusively available to meet outstanding claims of covered bond holders. Moreover, covered bond investors enjoy ultimate recourse to the insolvency estate of the issuer, ranking *pari passu* with senior unsecured investors.

### **III. COVER ASSETS**

Eligible cover assets are mortgage loans and loans to the public sector. There is no requirement for separate cover pools for mortgage and public sector cover assets; both asset classes can be mixed in a single cover pool. However, most of the cover assets are mortgages (more than 95% of the cover pools).

For mortgagees to be eligible as cover assets they should be secured by:

- > real property intended for residential, agricultural, office or commercial use;
- > site-leasehold rights intended for residential, office or commercial use;
- > a pledge against tenant-owner rights; or
- > similar foreign collateral (EEA).

Mortgages to offices and commercial property are limited to 10% of the total value of the cover pool. The collateral for the mortgage loans has to be located in Sweden or the European Economic Area (EEA)<sup>3</sup>. Neither asset-backed nor mortgage-backed securities are eligible as cover assets. The mortgage loans have to meet valuation criteria and certain loan-to-value ratios specified in the CBIA and the SFSA regulation (see section IV).

Eligible public sector assets are securities and other claims:

- > issued or guaranteed by the Swedish state, a Swedish municipality or a similar public body;
- > issued or guaranteed by a foreign state or central bank, where the investment is in the foreign state's national currency and is refinanced in the same currency<sup>4</sup>;
- > issued or guaranteed by the European Communities, or any of the foreign states or central banks prescribed by the Swedish government; or guaranteed by a foreign municipality or public body that has the authority to collect taxes.

Non-performing loans due over 60 days cannot be included for the purpose of meeting the matching requirements set forth in the CBIA.

#### **Derivative contracts**

The CBIA provides for the use of derivatives for hedging of interest and currency risk. The derivatives must be structured so that an early termination is not triggered by an issuer default or on the counterparty's demand. Derivative counterparties must have a minimum long-term rating of A3/A-/A- (Moody's/S&P/Fitch) at the time the agreement is entered into. The law stipulates asymmetrical collateralisation. Collateral, a guarantee or replacement language is required from the counterparty in the event of the rating falling below the minimum rating level. There are no reciprocal requirements on the covered bond issuer, but the derivative counterparty has a priority claim on the cover pool. The derivatives are not included in the nominal coverage calculation and are not limited to a maximum percentage of the cover pool. The derivative contracts are however included in the net present value coverage calculation, the purpose of which is to ascertain a good balance between the value of the assets and the liabilities in the covered bond programme.

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<sup>3</sup> Countries belonging to the European Economic Area are the EU countries plus Norway, Iceland, Liechtenstein.

<sup>4</sup> The law does not provide for any explicit geographic restriction.

### **Substitution assets**

Certain types of highly liquid assets can serve as substitution assets for up to 20% of the value of the cover pool. Eligible substitution assets include public sector assets and cash and qualify for a 0% risk weight. The SFSA can temporarily raise the limit up to 30% and expand the universe of eligible substitution assets.

### **IV. VALUATION AND LTV CRITERIA**

The principles for the valuation of collateral for the mortgages in the cover pool are specified in the CBIA. The valuation relating to residential properties may be based on general price levels. The value of any other eligible property class must be based on the market price and determined on an individual basis by qualified professionals. The market value should reflect the price achievable through a commercial sale, without time pressure and excluding any speculative or temporary elements. Issuers are required to monitor the market value of the property regularly, and in the case of a significant decline review the valuation and ensure that the loan to value (LTV) of the related mortgage loan remains within the limits. The valuer can be an employee of the issuer or external.

For the various mortgage types eligible as cover, the following maximum LTV ratios apply:

- > 75% of the value for real estate, site-leasehold rights and tenant-owner rights where the property is intended for residential use;
- > 70% of the value for real estate intended for agricultural purposes;
- > 60% of the value for real estate, site-leasehold rights and tenant-owner rights where the property is intended for office or commercial use.

The LTV limits are relative, not absolute. A loan with a higher LTV ratio can be included in the cover pool up to the legal threshold. The balance is refinanced through other funding instruments.

The issuer is required to test and analyse how changes in property values may affect LTV ratios and the value of the cover pool at least once a year. The tests should be based on conservative assumptions.

### **V. ASSET – LIABILITY MANAGEMENT**

The CBIA requires the nominal value of the cover assets to at all times be greater than the aggregate nominal value of claims arising from outstanding covered bonds. The cover assets, including derivatives, should, on a net present value basis, always be greater than the corresponding value of the interest and principal of outstanding covered bonds, taking into account the effects of stress-test scenarios on interest and currency risks set by the SFSA. The stressed scenario that should be tested regarding interest-rate risk is a sudden and sustained parallel shift in the reference swap curve by 100 bps in an unfavourable direction, and a twist in the swap curve. The currency risk should be tested for a 10% sudden and sustained change in the relevant foreign exchange rate for the currency of the covered bonds and the currency of cover assets. There is a minimum overcollateralisation (OC) requirement of two percent. Both the statutory OC and any additional OC for structural enhancement purposes are bankruptcy-remote and protected in the event of issuer insolvency.

The issuer shall ensure that the cash flow with respect to the assets in the cover pool, any derivative agreements and the covered bonds are such that the issuer is always able to meet its payment obligations towards the bondholders and derivative counterparties. The issuer should be able to account for these funds separately.

### **VI. TRANSPARENCY**

The issuers disclose information regarding their cover pool and outstanding covered bonds every quarter (some more frequently) in line with the harmonized transparency template ('HTT', posted on the Covered Bond Label website<sup>5</sup>) and a national transparency template (NTT). The information is published on each issuer's website.

5 <https://www.coveredbondlabel.com/issuers/national-information-detail/24/>.

The uniform reporting makes it easy for investors to compare data across issuers' cover pools and to extract data for further analysis.

In addition to the publicly disclosed information, the issuers are required to give their respective cover pool inspector (see section VII) additional information, specified in the SFSA regulation.

## **VII. COVER POOL MONITORING AND BANKING SUPERVISION**

The covered bond issuers are subject to special supervision by the SFSA. The SFSA supervises the issuers' compliance with the CBIA and related regulatory provisions. If an issuer is in material breach of its obligations under the legal framework, the SFSA can issue a warning or revoke the authorisation to issue covered bonds altogether. The SFSA may also revoke an authorisation if the issuer waives the license or if the institution has failed to issue covered bonds within a year from the date of the authorisation.

For each issuer, the SFSA appoints an independent and suitably qualified cover pool inspector (cover pool trustee), who is remunerated by the covered bond issuer. The duties of the cover pool inspector are to monitor the register and verify that the covered bonds, the derivative agreements and the cover assets are correctly recorded. The inspector also ensures compliance with calculation of coverage and market risk limits in accordance with the framework. The inspector is also required to monitor the revaluations of underlying collateral that has been conducted during the year. The issuer is obliged to provide the covered bond inspector with any information requested relating to its covered bond operations. The inspector submits a report of his or her assessment to the SFSA on an annual basis and is required to notify the SFSA as soon as he or she learns about an event deemed to be significant.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

### **Cover register**

The issuer is required to keep a register of the cover assets, substitution assets, derivative contracts, and outstanding covered bonds. The law specifies the form and content of the register, which shall be easily accessible for the SFSA and the cover pool inspector. The registration ensures that the covered bondholders and derivative counterparties have a legally enforceable priority claim on the cover pool in the event of issuer insolvency. Prior to an issuer being declared insolvent, cash flows accruing from the cover assets must be accounted for separately by the issuer. In the event of issuer default, covered bond investors and derivative counterparties have the same priority claim on such cash flows as they have on the cover pool. Any cash flows accruing from the cover assets after issuer insolvency should also be recorded in the cover pool register.

### **Issuer insolvency**

In the event of issuer insolvency, the registered cover assets and the covered bonds are segregated from the general insolvency estate. Covered bonds are not accelerated as long as the cover pool fulfils the requirements set out in the CBIA, which also allows for "temporary, minor deviations"<sup>6</sup>. An issuer default does not trigger early termination of any registered derivative contracts. Covered bond holders and registered derivative counterparties have a priority claim on the cover pool and cash that derives from the pool, ensuring timely repayment to original agreed terms, as long as the cover pool is compliant with the CBIA. The cover pool does however not constitute a separate legal estate. According to a legal opinion, the bankruptcy of the issuer should not lead to a debt moratorium on the covered bonds.<sup>7</sup>

<sup>6</sup> According to the legislative history of the Act, this would be, for example, "temporary liquidity constraints".

<sup>7</sup> There are no means in the Act that could disrupt or delay payment to covered bondholders. However, the Act does not explicitly derogate from the general provision of the Code of Procedures 1948 or the Bankruptcy Act 1987, of which neither explicitly ensures the integrity of payments on covered bonds.

Under the Swedish Bankruptcy Code, the insolvency of the parent company does not automatically trigger the insolvency of a subsidiary.

#### **Cover pool default and preferential treatment**

In the event of the cover pool being incompliant with the eligibility criteria, the covered bonds would be accelerated. Covered bond investors and derivative counterparties would have a priority claim on the proceeds from the sale of the cover assets, ranking pari passu among themselves but prior to any other creditors. If the proceeds are insufficient to repay all liabilities on the outstanding covered bonds, covered bond investors and derivative counterparties would have an ultimate recourse to the insolvency estate of the issuer, ranking pari passu with senior unsecured investors.

#### **Survival of OC**

Any OC present in the cover pool at the time of the issuer's insolvency is bankruptcy-remote provided that it is recorded in the cover pool register. Full repayment of outstanding claims related to the covered bonds and registered derivatives is required before the cover assets would be available to satisfy any claims from unsecured creditors.

The law does not provide for the appointment of a special cover pool administrator. The receiver-in-bankruptcy represents the interests of both the covered bond investors and the unsecured investors. The receiver can use the OC to pay advance dividends to other creditors of the bankrupt issuer, if the pool contains more assets than necessary.<sup>8</sup> If the cover assets later prove to be insufficient, these advance dividend payments can be reclaimed.

#### **Access to liquidity in case of insolvency**

In the cases of the issuer's insolvency, the law does not enable the receiver-in-bankruptcy to refinance maturing covered bonds by issuing new covered bonds. The receiver cannot substitute ordinary cover assets for other assets. However, the receiver can utilise available liquid assets included in the cover pool and is allowed to sell assets from the cover pool to create the necessary liquidity.

The receiver-in-bankruptcy also has an express mandate to, on behalf of the bankruptcy estate enter into loan agreements and other contracts for the purpose of maintaining sufficient coverage and liquidity and managing the currency and interest rate risks. The receiver should only enter into agreements if, on the date of execution of the agreement, the agreement is deemed to be in the bondholders' and derivative counterparties' interest and if the assets in the cover pool are deemed to fulfil the legal requirements. When the receiver enters into an agreement, the counterparty has a claim on the bankruptcy estate that ranks ahead of the secured creditors and creditors with rights of priority.

#### **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The covered bonds issued on the Swedish market comply with the criteria of UCITS Directive article 52 and with the covered bond criteria in article 129 in CRR. Since the bonds are compliant with CRR article 129, the applicable risk-weight for the Swedish covered bonds will be ten percent for those banks that use the standard method. The CBIA explicitly lists mortgages against property for agricultural purposes and mortgages against the pledging of tenant-owner rights as eligible cover assets, while the CRR does not. However, the general opinion of the parties involved is that the term "Commercial Real Estate" in the CRR should be interpreted to include agricultural property mainly for commercial use. Swedish covered bonds are eligible for repo transactions with the Riksbank (the Swedish Central Bank). The Riksbank's collateral requirements are harmonised with those applied within the Eurosystem.

<sup>8</sup> According to a legal opinion, the receiver-in-bankruptcy would have to take into account a substantial safety margin to ensure that the cover pool's integrity and compliance with the Act is not jeopardized, which would be difficult to prove unless outstanding covered bonds were due to mature imminently.

Covered bonds issued in other jurisdictions enjoy the same preferential capital treatment in Sweden, subject to the relevant foreign supervisory authority having assigned the covered bonds preferential risk-weights (principle of mutual recognition).

The Swedish UCITS Act (Lag (2004:46) om värdepappersfonder) allows for Swedish UCITS to invest up to 25% of their assets in Swedish covered bonds, instead of the 5% generally applicable to other asset classes.

## **X. ADDITIONAL INFORMATION**

### **Issuing and trading of Swedish domestic covered bonds**

Normally the Swedish covered bonds are registered at Nasdaq Stockholm (a Nasdaq Inc. subsidiary), although no actual bond trading takes place there. The base prospectuses used follow the standard of and are compliant with the Prospectus Directive (superseded by the Prospectus Regulation as of 21 July 2019) and are approved by the SFSA. The normally used technique for issues is "on tap".

To ensure a good market liquidity, the large issuers issue their bonds as benchmarks which in the Swedish market mean large issues (SEK 3 billion and more) and that a number of dealers show both bid and offer prices. Only benchmarks are deliverable in the future contracts. When a new benchmark bond is issued, the issuer makes sure that the amount issued meets the requirements for a benchmark sized deal. After the initial day of issuance, the issuer can, without further notice, issue "on tap" the size required to fund the lending. At the peak of the life of the bond it typically has a volume of SEK 50 to 70 bn. After that the volume decreases due to active repurchase operations by the issuer. With one year to go to maturity a loan is no longer of benchmark status. This paves the way for a controlled redemption of the remaining part of the loan.

The bonds are sold into the primary market through banks acting as agents for the issuer. These banks also act as market makers in the secondary market. Currently, there are five banks that act as market makers in covered bonds: Danske Bank, Nordea, SEB, Svenska Handelsbanken and Swedbank. The market for government and domestic covered bonds, as well as treasury bills, is a telephone and screen-based over-the-counter market. Market makers display indicative two-way prices on an electronic information system which is instantaneously relayed by Reuters. Fixed prices are quoted on request and most deals are concluded via telephone. Trading in the secondary market takes place on all business days between 09.00 and 16.15 (local time). The number of bonds to be quoted is regulated in an agreement between the issuer and the market-maker.

Bonds are quoted on a yield basis with bid and ask spreads of (under normal market conditions) 2 bp for the liquid benchmark bonds. The settlement day for bonds is three business days after the trading date. Treasury bills are quoted on a simple yield basis and are settled two business days after the trading day. The normal trading lot in government securities and liquid covered bonds is SEK 200-500 m.

Sweden has a liquid repo market with almost all banks and broker firms involved in the trading. The repo market in Sweden started in the late 1980s and developed fast. The Swedish Debt Office offers a repo-facility in government bonds and treasury bills and the covered bond issuers offer their market makers a repo-facility in their own covered bonds. The repo transactions are viewed as 'sell-buy back' or 'buy-sell back' deals and the ownership of the security must be transferred. There are no standard conditions for a repo transaction and the counterparties agree on maturity, settlement day and delivery for each deal. Mostly, repos are settled two banking days after the trading day. Repo rates are quoted as a spread vs the Riksbank repo rate. Because of quantitative easing there is currently a lack of government bonds in the repo market, which has negative effects on the functionality of the repo market.

Almost all publicly listed securities in Sweden are in book-entry form, registered and settled via Euroclear Sweden's system. Domestic settlement requires a securities account or a custody account with one of the Swedish banks or investment firms. Foreign investors can either have a custodian service with a Swedish bank or investment firm or settle via Euroclear or Clearstream.

Accrued interest is calculated from the previous coupon date to the settlement date. The interest rate is calculated by using ISMA's 30E/360-day count – "End-of-month" convention.

Swedish government bonds and covered bonds have five ex-coupon days, hence there is a negative yield when settlement occurs within five business days before the coupon date. Swedish krona bonds redeem at par upon maturity and most of them pay coupon annually. All domestic banks act as paying agents.

### **The ASCB**

The Association of Swedish Covered Bond issuers (ASCB), which was established in 2009, performs ongoing work to further improve the conditions for the Swedish covered bond market. More information about the Swedish covered bond market can be found at [www.ascb.se](http://www.ascb.se).

### **Essential terms and conditions of a typical Swedish market maker agreement**

Typically, the larger issuers have 5-8 covered bond series with benchmark status. For the benchmark issues, the market maker typically has a duty to:

- > Help the issuer sell bonds via taps of the benchmark loans in the market;
- > Actively support trading of these bonds in the secondary market; and
- > Continuously quote indicative rates in the information systems used.

The obligations of a market maker are conditional upon a number of things, inter alia:

- > that no change in the economic, financial or political conditions, which in the reasonable opinion of the market maker would create a major obstacle to the fulfilment of the obligations, have occurred;
- > that the bonds, in the reasonable opinion of the market maker, cannot be placed in the primary or secondary market on normal market conditions.

If the obligations cannot be fulfilled, the market maker shall notify the issuer and may withdraw from the duties wholly or in part for a shorter or longer time.

The issuer has an obligation to, under normal market conditions, offer a limited repo facility in the outstanding benchmark bonds to the market maker.

**Issuers:** Stadshypotek, Swedbank Mortgage, Nordea Hypotek, Swedish Covered Bond Corporation (SCBC), SEB, Skandiabanken, Länsförsäkringar Hypotek, Landshypotek, Danske Hypotek, Bluestep Bank and Sparbanken Skåne. The market is dominated by the first five of them and the majority of their exposure is to domestic residential mortgages, with the remainder consisting of commercial property loans and public-sector loans.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/47/Swedish\\_Covered\\_Bonds](https://www.ecbc.eu/framework/47/Swedish_Covered_Bonds)



COVERED BOND : Länsförsäkringar Hypotek AB (1 pool), Skandinaviska Enskilda Banken AB (SEB) (1 pool), Stadshypotek AB (publ) (3 pools), Swedbank Mortgage AB (1 pool), The Swedish Covered Bond Corporation (1 pool), Nordea Hypotek (1 pool).



## 3.39.1 SWITZERLAND – SWISS PFANDBRIEFE®

By Robert Horat and Markus Müller, Pfandbriefbank schweizerischer Hypothekarinstutute AG

### I. FRAMEWORK

The legal framework for the Swiss Pfandbrief system is the Pfandbrief Act ('Pfandbriefgesetz', 'PfG'). It is complemented by the Pfandbrief Ordinance ('Pfandbriefverordnung', 'PfV'), the articles of association of the Pfandbrief institutes and the valuation regulations ('Schätzungsreglement'). The latter two have to be authorised by the Swiss Federal Council.

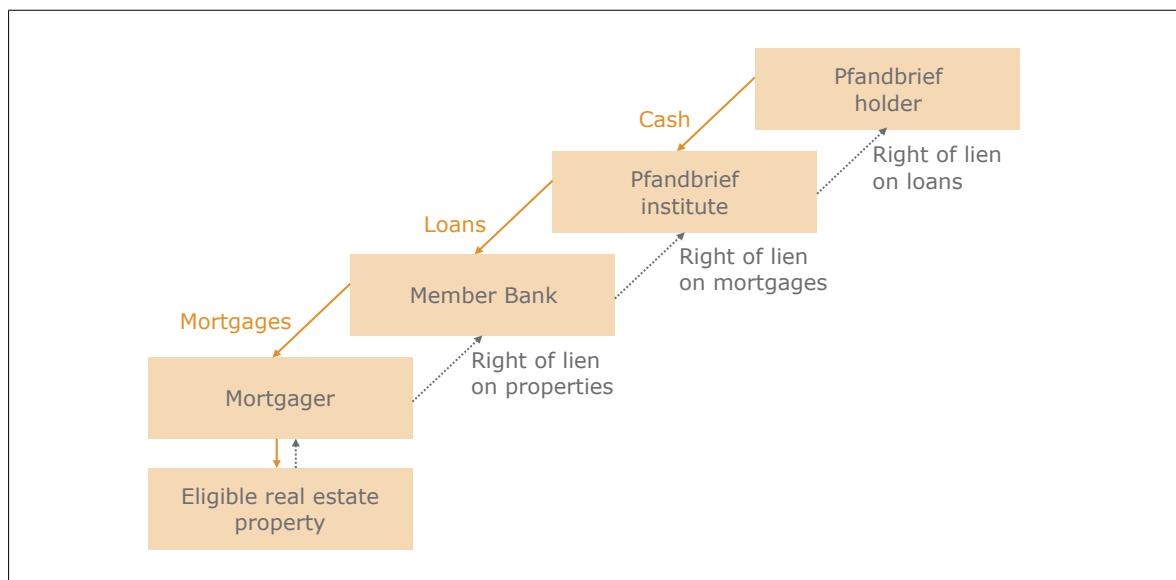
According to the PfG, the issuance of Swiss Pfandbriefe is reserved to two specialised Pfandbrief institutes, namely the 'Pfandbriefzentrale der schweizerischen Kantonalbanken AG' (PZ) and the 'Pfandbriefbank schweizerischer Hypothekarinstutute AG' (PB). They issue Swiss Pfandbriefe to refinance their member banks' Swiss mortgage business. As of article 1 of the PfG the purpose of the Pfandbrief institutes is to enable mortgages for real estate owners at interest rates which are as constant and favourable as possible. The 'Swiss Pfandbrief®' is a registered trademark. The reputation of this brand shall underpin its uniqueness within the world of covered bonds.

The Swiss Pfandbrief system is an indirect one: The Pfandbrief institutes raise money by issuing Swiss Pfandbriefe in order to grant Pfandbrief loans to their member banks. Sourced volume, currency and interest terms must be equal within each series of issuance. To get a loan, each member bank has to pledge first class Swiss mortgages to the Pfandbrief institute as a cover in advance. The Pfandbrief investors have a lien on the granted loans. The investors' lien on the loans as well as the issuers lien on the mortgages in the member banks' cover pool are determined by the Pfandbrief Act.

PfG came into effect in 1930. Its 52 articles are well balanced and the PfG had to be modified only marginally in the meantime. The fact that the Swiss Pfandbrief has a special legal basis, provides legal certainty as well as stability and predictability.

Pfandbrief institutes have a strictly limited scope:

> FIGURE 1: THE SWISS PFANDBRIEF® FRAMEWORK

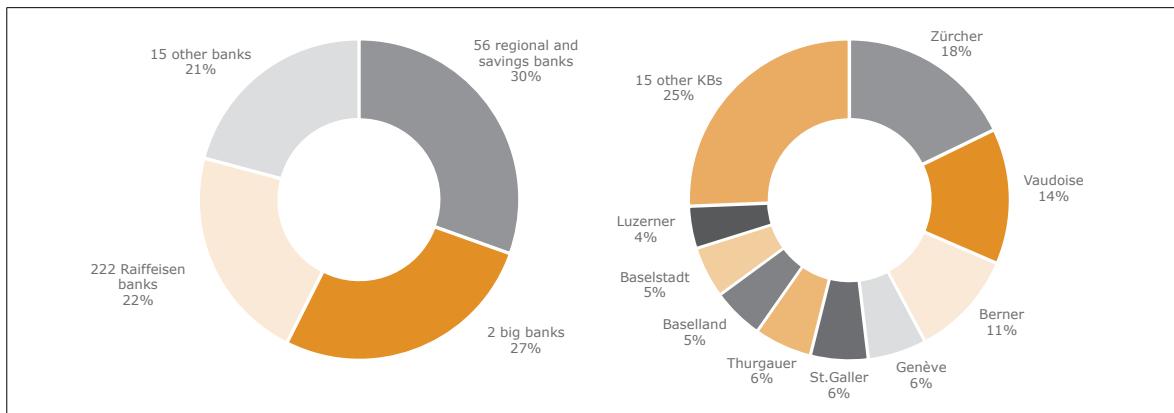


Source: Credit Suisse AG

## **II. STRUCTURE OF THE ISSUER**

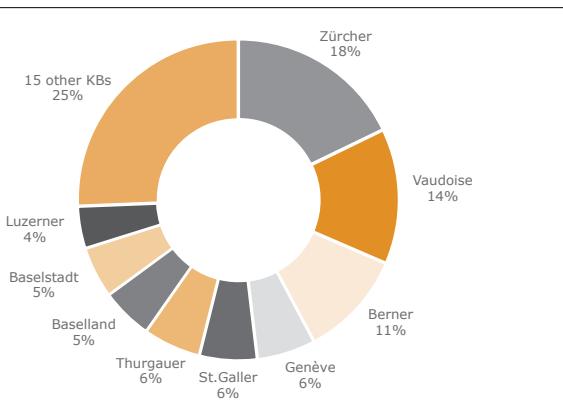
PZ operates as the Pfandbrief issuing vehicle of the Swiss cantonal banks and PB of all other Swiss banks. Both are special institutions with their business scope limited to the issuance of Swiss Pfandbriefe, to granting Pfandbrief loans to their member banks and to investing their share capital and reserves. Both Pfandbrief institutes are supervised by the Swiss financial market authority (FINMA). They are owned by their member banks. The chart below shows the structure of the shareholders:

> FIGURE 2: SHAREHOLDERS OF PB



Source: PB as of 31.12.2020

> FIGURE 3: SHAREHOLDERS OF PZ



Source: PZ as of 31.12.2020

PB was founded in 1931 and counts 292 banks with loans. Any Swiss bank has the right to become a member of PB, provided that it is headquartered in Switzerland and that Swiss mortgages account for at least 60% of the bank's balance sheet (Article 4 PfG). As of 31 December 2020 the total outstanding Swiss Pfandbriefe of PB amount to CHF 76.6 billion (EUR 70.9 billion).

PZ was also founded in 1931 and has 24 member banks. Only cantonal banks have the right to become members of the PZ (Article 3 PfG). PZ does not have its own staff but has fully outsourced its operations to Zürcher Kantonalbank. As of 31 December 2020 the total outstanding Swiss Pfandbriefe of PZ amount to CHF 65.7 billion (EUR 60.8 billion).

The total volume of all outstanding Swiss Pfandbriefe as of 31 December 2020 amounts to CHF 142.3 billion (EUR 131.7 billion). For years the two Swiss Pfandbrief institutes have been the major bond issuers in Switzerland, even more important than the government. In 2020 they issued Swiss Pfandbriefe amounting to CHF 20.6 billion (EUR 19.1 billion).

Swiss Pfandbriefe are standardised to a great extent. They are a commodity, denominated only in Swiss francs, with an original time to maturity of up to 30 years. The size of an issuance depends either on the demand of the member banks for loans or on the demand of the investors for Swiss Pfandbriefe, whichever is smaller. Whenever possible, existing bonds are reopened.

Generally, Swiss Pfandbriefe are issued as public bonds through a banking syndicate at fixed term fees (the last private placement has been placed in 2011). All of these public issuances are listed on the SIX Swiss Exchange AG. In the domestic bond segment in Swiss Francs Pfandbriefe amount to 35%, followed by public sector (Swiss government, cantons, cities, regions) with 27%, the banking and insurance sector with 18% and other industries with 20%.

In total about 13% of all Swiss mortgages are refinanced through Swiss Pfandbriefe (10/2020).

### **III./IV. COVER ASSETS, VALUATION AND LOAN TO VALUE (LTV) CRITERIA**

As a principle, Pfandbrief loans are only granted against a pledge of eligible first class mortgages on Swiss properties.

PB has got an electronic cover pool system. Mortgages are pledged to PB by the member banks through entry of a complete 'cover proposal' into the electronic pool register, which all member banks are linked to. The system immediately evaluates the member bank's 'cover proposal', which is then reviewed by one employee and authorised by another. PB valuates the mortgages independently from the member bank. Substantial cover proposals are additionally reviewed by a special cover pool committee.

The PfG defines a general maximum cover value LTV of two thirds (Article 5 PfG), however, the cover value is at most as high as the mortgage, but mostly lower. Member banks are obliged to replace impaired, non-performing and other ineligible mortgages. Furthermore, contractual repayments of the mortgage can also reduce the cover value of the asset pool. Therefore, the member banks and PB have to supervise overcollateralisation daily. If total cover value is below the overcollateralisation limit, latest by close of business new eligible mortgages have to be pledged by the member bank.

The 'Pfandbriefbank pool' consists of approx. 196'000 mortgages all over Switzerland, which provides a good diversification. More than 99% are residential properties (the total cover value of the commercial properties is immaterial).

In case of a material change in macro-economic conditions, FINMA may request a new valuation of the real estate properties (Article 32 PfG).

### **V. ASSET – LIABILITY MANAGEMENT**

#### **Cover principles**

The PfG stipulates that the principal amount as well as the interest payments of outstanding Swiss Pfandbriefe be at all times covered by an equivalent amount of Pfandbrief loans to the member banks (Article 14 PfG). The loans granted by Pfandbrief institutes to their member banks must be collateralised by liens on eligible real estate property (Article 19 PfG). If the interest proceeds of the pledged mortgages of a member bank are lower than its total Pfandbrief loan interest, the asset cover pool must be increased (Article 20 PfG).

#### **Overcollateralisation**

In addition to eligibility and valuation principles (LTV legally at maximum 2/3, for PB the average LTV is lower than 50%), the cover value of the cover assets has to exceed the Pfandbrief loans given to member banks by at least 8% for PB and by 15% for PZ. The higher overcollateralisation of PZ compensates for the fact that PZ does not have a standardised electronic cover pool register.

#### **Additional Limits**

Swiss Pfandbriefe are issued in individual series which must match the repayment profile of the Pfandbrief loans to member banks, eliminating interest rate and funding risks. Currency risk does not exist as both the loans to member banks and the Pfandbriefe are issued in Swiss Francs. Therefore there is no need for derivatives to hedge market risks. Liquidity concentration risk is limited by individual limits for each member bank. The investment policy for free assets limits credit and market risks on counterparty and portfolio level.

Growth of the Pfandbrief institutes is limited as the required capital must exceed 2% of the total Pfandbrief issuance volume of the respective institute (Article 10 PfG).

### **VI. TRANSPARENCY**

Although Switzerland does not yet participate in the 'Covered Bond Label' self-certification programme, PB publishes the 'Pfandbriefbank Pool' report (incl. member bank rating distribution, region, property type, property type by cover value size, loan to value) semi-annually on its home page ([www.pfandbriefbank.ch](http://www.pfandbriefbank.ch)). Where necessary due to the COVID-19 impact, the set of key economic figures in the cover pool reporting has been adjusted.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

PB evaluates and monitors the cover pool independently of the member bank (which grants the mortgage to the house owner) and monitors eligibility and overcollateralisation of the cover pool daily. Mortgages are back-tested by means of a hedonic valuation model. Additionally, a special cover pool committee reviews substantial mortgages and visits major properties.

The Swiss Federal Council approves the articles of association and valuation regulations and nominates one member of the board of directors.

Swiss Pfandbrief institutes as well as their member banks are supervised by FINMA and audited by external audit firms.

In addition, Moody's rates all Swiss Pfandbriefe with Triple A, investors analyse the annual reports of the Pfandbrief institutes, various analysts publish research reports and/or ratings and last but not least the capital market values Swiss Pfandbriefe.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS**

In the event of a member bank's insolvency, the Pfandbrief institute has a priority claim on the registered collateral (Article 23 PfG). The insolvency of a member bank does not directly trigger the acceleration of outstanding Pfandbriefe. In this respect, the Pfandbrief institute functions as a buffer between the investors and the member banks. The Pfandbrief institutes have own funds at their disposal and maintain an unencumbered SNB-/repo-eligible bond portfolio within their free assets.

Should there be justified concern that a member bank is overindebted, has serious liquidity problems or that the bank no longer fulfils the capital adequacy provisions (Article 25 Banking Act, BankG), FINMA can order:

- a) protective measures pursuant to Article 26 BankG. However, FINMA can order deferment of payments or payment extension, except for mortgage-secured receivables of the Pfandbrief institutes (Article 26 h BankG). FINMA can also order the delivery of the cover assets and then act as fiduciary (Article 40 PfG).
- b) restructuring procedures pursuant to Article 28 – 32 BankG: If it appears likely that the member bank can continue to provide individual banking services (regardless of the continued existence of the bank concerned) or can recover, FINMA can issue the necessary provisions and restructuring orders (Article 28 BankG):
  - > Convertibility of claims (Article 49 Banking Insolvency Ordinance, BIV): All bank debt capital may be converted into equity capital, explicitly excluding a) defined "privileged claims", b) "secured claims to the extent that they are secured" (including pfandbrief loans) and "offsettable claims to the extent that they are offsettable."
  - > Reduction in claims (Article 50 BIV): In addition to or instead of converting bank debt capital into bank equity capital, FINMA may order a partial or full reduction in claims, again excluding the aforementioned letters a and b (of Article 49 BIV) and letters a to c of Article 48 BIV.
  - > In our view, this framework leads to the Swiss bank loss absorption waterfall as shown on the right hand figure (source: resolution of global systemically important banks, FINMA, 7 August 2013).



Common equity tier 1 (CET1)	Equity	Full loss absorbency
Additional tier 1 (AT1)	Subordinated debt	Automatic loss absorbency or contractual bail-in
Tier 2 point of non-viability (PONV, incl. CoCo)		
Old style tier 1 and tier 2		Statutory bail-in
Other		
Senior unsecured liabilities	3rd insolvency debt class	No bail-in
Non privileged deposits		
Privileged claims/deposits, secured claims (incl. pfandbrief loans) and offsettable claims	Debt	

c) the member bank's liquidation due to bankruptcy pursuant to Article 33 - 37 g BankG: Should there be no prospect of restructuring or if a restructuring were to fail, FINMA will have to revoke the bank's licence, order its liquidation and make this public (Article 33 BankG). The BIV defines restructuring proceedings and bankruptcy proceedings under Article 28 – 37 g BankG in detail. This includes that FINMA may draw up a separate schedule of claims for claims secured by a registered pledge of the Pfandbrief institutes, if systemic risks can only be restricted by doing so (Article 27 BIV).

During its meeting on 8 March 2019, the Swiss Federal Council initiated the consultation on the partial revision of the BankG. Amongst other points, the BankG regulates the restructuring procedure for banks on the basis of principles. Details on structural and operational organisation are defined in the BIV. In order to strengthen legal certainty, selected instruments are to be anchored at the statutory level. At the same time, the functionality of the Swiss Pfandbrief system in the event of insolvency or bankruptcy of a member bank should be strengthened.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH INTERNATIONAL LEGISLATION**

The Bank for International Settlements regularly assesses the consistency of implementation of Basel standards. Within the Regulatory Consistency Assessment Programme (RECAP) the Basel Committee on Banking Supervision rated Switzerland with an overall "compliant" grade for the risk based capital standards (June 2013), for G/D-SIB standards (June 2016) and for the Liquidity (LCR) standards (October 2017). The Basel Committee on Banking Supervision has not yet assessed the Swiss implementation of the 'large exposure framework' and the Net Stable Funding Ratio (NSFR).

### **Basel III – capital standards**

Switzerland implements Basel III capital requirements by means of the 'Banking Act' and the 'Swiss Capital Adequacy Ordinance' (CAO) into national law. The CAO has two approaches to measure credit risks in banking books: The BIS standard approach and the internal ratings-based approach. Under the BIS standard approach Swiss Pfandbriefe have a 20% risk weighting.

### **Basel III – liquidity standards**

Switzerland implements Basel III liquidity requirements by means of the 'Banking Act' and the 'Liquidity Ordinance' (LiqO) into national law. Swiss Pfandbriefe fulfil the Liquidity Coverage Ratio criteria for high-quality liquid assets (Article 15b of LiqO for LCR HQLA 2a: Covered bonds, not self-issued, rated AAA or AA). As a second minimum liquidity requirement for Swiss banks the 'Net Stable Funding Ratio' (NSFR) is planned to come into effect in 1 July 2021.

Beyond the Basel risk framework, Article 9 of the National Bank Act also lists the open market operations and standing facilities that the Swiss National Bank (SNB) may conduct. The preconditions for entering into a standing intraday or liquidity facility are the granting of a limit by the SNB and the provision of eligible collateral. Only securities included in the latest SNB GC basket may be pledged as collateral for repo transactions ([www.snb.ch](http://www.snb.ch), financial markets, monetary policy operations, collateral eligible for SNB repos). Swiss Pfandbriefe are part of the SNB GC list and are therefore eligible.

## **X. INVESTORS BENEFITS**

An investor in Swiss Pfandbriefe benefits from

- > the special institute principle with strictly limited scope.
- > Swiss legislation applicable for all contracts within the Swiss Pfandbrief collateral chain.
- > the cover pool, which only includes eligible Swiss franc mortgages on Swiss real estate properties.

- > the fourfold security which is 1) the creditworthiness of the Pfandbrief institute, 2) the creditworthiness of the member bank, 3) the creditworthiness of the mortgager and 4) the market value of the real estate property itself.
- > in the case of PB: The value of the real estate property is independently determined by PB and not by the member bank.
- > in the case of PZ: Explicit state guarantee for most of its member banks<sup>1</sup>.
- > the fact that since the establishment of the PfG in 1930 neither an investor nor a Pfandbrief institute have ever suffered a loss.

**Issuers:** Pfandbriefbank schweizerischer Hypothekarinstutute AG (PB) and Pfandbriefzentrale der schweizerischen Kantonalbanken AG (PZ).

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/82/Swiss\\_Pfandbriefe](https://www.ecbc.eu/framework/82/Swiss_Pfandbriefe)

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<sup>1</sup> Three of PZ's member banks do not benefit from a cantonal guarantee, namely Banque Cantonale Vaudoise AG (VD), Berner Kantonalbank AG (BE) and Banque Cantonale de Genève AG (GE).

## **3.39.2 SWITZERLAND – CONTRACTUAL LAW BASED COVERED BONDS**

By Marco Brück, Valiant Bank, and Michael McCormick, Credit Suisse

### **I. FRAMEWORK**

In 2009 and 2010 respectively, UBS AG (UBS) and Credit Suisse AG (Credit Suisse) established contractual covered bond programmes in order to access covered bond funding in the EUR and USD markets. The UBS and Credit Suisse programmes use Swiss and English law contractual provisions to implement structural features that are standard in the covered bond market. However, in response to evolving regulatory environment and to comply with the Swiss “too big to fail” requirements, Credit Suisse and UBS have since implemented changes to their legal entity structures. Among the required changes were the establishment of new Swiss banking subsidiaries intended to hold (among other businesses) their retail mortgage businesses. These changes necessitated structural changes to the covered bond programmes which UBS and Credit Suisse implemented in June 2015 and November 2016, respectively. Following these changes, Credit Suisse and UBS no longer issue covered bonds out of these programmes.

Starting in 2017, new contractual covered bond programmes were established by Valiant Bank AG (Valiant), Credit Suisse (Schweiz) AG (CS Schweiz) and Crédit Agricole next bank (Suisse) SA (CANB) in order to diversify their funding sources. As with UBS and Credit Suisse legacy covered bond programmes, these are structured programmes that are not subject to the Swiss Pfandbriefe legislation. However, in contrast to UBS and Credit Suisse’s legacy programmes, all of these programmes exclusively use Swiss law provisions and have so far only issued CHF-denominated series.

### **II. STRUCTURE OF THE ISSUER**

In line with the guarantor Special Purpose Vehicle (SPV) model used in the United Kingdom and the Netherlands (among other jurisdictions), the issuers have established Swiss based special purpose companies to guarantee their payment obligations for the benefit of the covered bondholders. All programmes feature direct recourse to the issuer, which remains primarily responsible for payments on the bonds. These guarantor entities hold security over the programmes’ respective cover pools and may use the cover pool assets to make payments on the covered bonds should the issuer fail to do so. In case of Valiant, in addition to mortgage claims, the covered bondholders benefit from accessory preferential claims pledged by the mortgagor for the benefit of the issuer and transferred to the guarantor by way of security. The guarantee comes into operation following an issuer event of default, subject to certain conditions. All covered bonds issued under the respective programmes rank *pari passu* with each other and benefit equally from the guarantee. The guarantors are ring-fenced, bankruptcy-remote entities designed to be unaffected by the insolvency of the group to which they are consolidated (guarantors are majority-owned by their respective issuer). All issuers are financial institutions regulated by the Swiss banking regulator, the Swiss Financial Market Supervisory Authority (FINMA).

As part of their legal entity restructurings, UBS and Credit Suisse transferred their residential mortgage businesses to UBS Switzerland AG and CS Schweiz, their newly established domestic subsidiaries. Concurrently, a joint and several liability arrangements were put in place under which these subsidiaries assumed joint and several liability for all contractual obligations of the issuers under the programme, including the covered bonds themselves.

### **III. COVER ASSETS**

The collateral of Swiss contractual law based covered bonds consists of Swiss residential mortgage loans to private individuals and the related mortgage certificates securing such mortgage loans. In case of Valiant, in addition to mortgage claims, the covered bondholders benefit from accessory preferential claims pledged by the mortgagor for the benefit of the issuer and transferred to the guarantor by way of security. The acces-

sory preferential claims are second and third pillar pension fund assets and are not taken into account in the cover pool and in the calculation of the asset coverage test. Substitution assets can also be used as collateral of the covered bonds as long as their aggregate value does not exceed 15% of the cover pool. They comprise deposits in CHF (foreign currencies eligible only for hedging purpose) and authorised investments. The latter need to comply with stringent ratings to be cover pool eligible.

#### **IV. VALUATION AND LTV CRITERIA**

The eligibility criteria for initial inclusion the Credit Suisse, CS Schweiz and CAnb cover pool limit mortgages to those with a loan-to-value (LTV) of less than or equal to 100%, while the UBS and Valiant programmes limit eligible mortgages to those with LTV of less than or equal to 80%. Certain provisions within the programmes' asset coverage test (ACT) implement LTV limits by capping the value of each mortgage loan at a specified current LTV. This limit is 70% LTV in the Credit Suisse programme and 80% in the CS Schweiz, UBS, Valiant and CAnb programmes.

Mortgage LTVs are regularly calculated using current market values. In case of both Credit Suisse and Valiant programmes, appraisals are undertaken for each mortgage loan application by a valuation model (the IAZI). This comparative approach is one of the main methods used for the appraisal of real estate properties in Switzerland. The property is compared with thousands of other objects previously sold on the market. The price of the object is statistically estimated by comparing the price of properties with similar attributes in comparable locations. The credit risk management department, responsible for the continuous monitoring of the bank's mortgage portfolio, has the discretionary power to trigger a revaluation based on its analysis outcomes. UBS and CAnb conduct similar estimations of the collateral value for residential mortgages based on the Wüest & Partner valuation model, which is also a hedonic regression model. Other valuation methods may be used at the discretion of the lenders in specific circumstances and taken into consideration.

#### **V. ASSET – LIABILITY MANAGEMENT**

The ACT determines whether the value of the cover pool assets is sufficient for the timely payment of capital and interest owed under the covered bonds and confirms that the minimum overcollateralization (OC) requirements are met. The test is carried out monthly and the results are disclosed in the investor reporting. In addition to the LTV limitations described above, a second part of the ACT haircuts the full balance of the mortgages using an asset percentage (AP). The AP is derived from periodic rating agency feedback and sized to maintain a triple-A rating. The value given to the mortgage assets under the ACT is the lower of (i) the result when applying the LTV limits described above or (ii) the value of the mortgage assets multiplied by the AP. In addition, credit is given to cash and substitute assets while further deductions are made for loans in arrears, borrower set-off risk and potential negative carry. The resulting value must be equal to or exceed the value of the covered bonds outstanding for the test to be passed.

The APs in UBS, Credit Suisse, CS Schweiz and CAnb programmes may fluctuate over time, but are constrained by a maximum value. Valiant uses an alternative ACT ("Aktivendeckungstest"), including a minimum OC. The adjusted value of the Valiant cover pool always has to be equal to at least the nominal value of the outstanding covered bonds including a minimum OC, corresponding to the OC required to maintain the actual ratings up to a maximum committed level capped by contractual provisions at 50%.

The Swiss contractual law covered bond programmes benefit from additional safeguards:

- > Exposure to interest rate and currency risks are mitigated by use of derivatives in the UBS programme and legacy Credit Suisse programme. In case of Valiant, CS Schweiz and CAnb, the option to implement derivative instruments is available but has not been to date.
- > Liquidity risk is mitigated by the requirements to establish reserve funds, pass an interest coverage test (ICT), maintain pre-maturity liquidity (for hard bullet covered bonds) and the inclusion of 12-months

extension periods (for soft bullet covered bonds). In case of Valiant, the soft bullet structure may not only be applied to a covered bond series after an issuer event of default but may also applied to all outstanding covered bond series after a guarantor event of default (to reduce fire sale risk).

- > Minimum rating requirements are in place for the third parties that support the transaction, including the account bank, corporate services provider, servicer and cash manager.
- > Commingling risk is mitigated by the requirement of all collections arising from the cover pool assets to be transferred into guarantor cover pool bank account after a specific rating downgrade of the issuer.
- > Independent audits of the calculations undertaken on a regular basis by a cover pool monitor.

Upon an issuer event of default following the service of a notice to pay, the Amortisation Test (AT) is run on each calculation date instead of the ACT, and the ICT is no longer run. The AT is similar to the ACT and is designed to mitigate time subordination between the covered bond series therefore ensuring that the cover pool will be sufficient to make payments as required under the guarantee. Upon failure of the test, all covered bonds accelerate against the guarantor.

## **VI. TRANSPARENCY**

The issuers have committed to publishing monthly investor reports on a timely basis. These reports provide information relevant to investors including:

- > The monthly calculations of the ACT and the ICT.
- > Details of outstanding covered bonds and list of parties involved in the transaction.
- > The current balance of programme accounts.
- > A mortgage portfolio summary disclosing total balances, average loan balance, number of properties, WA remaining terms and WA LTVs.
- > Tables showing number properties and mortgages by remaining term, current LTV, total balance, interest rate type, property region, property type, and arrears.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

The issuers are regulated Swiss financial institutions, which are subject to regulation and supervision by FINMA. The cover pool tests comprising the ACT and the ICT as well as AT in case of an issuer's event of default, are checked and verified on a regular basis by an independent cover pool monitor. The results of his review are summarised in cover pool monitor reports for the attention of the guarantor, the issuer and the administrator. The administrator, independent from the issuer, has the duty to advise the bondholder representative (trustee) inter alia upon the breach of a cover pool test. The administrator is responsible for an ongoing monitoring of the cover pool. His main task comprises confirming the accuracy of the inclusion in or the removal from the cover pool, inter alia ensuring that the eligibility criteria are met and verifying that the registered amount in the cover pool is correct. In order to constitute a valid security interest the issuer will no longer be able to dispose over the mortgage certificates by its sole acts. The mortgage certificates can only be accessed with the presence and approbation of the administrator. In addition, rating agencies regularly monitor the programme.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

Upon the insolvency of the issuer, the mortgage receivables and the related mortgage certificates and substitute assets would not form part of the issuer's estate. Accordingly, the asset cover pool may be managed and enforced by the guarantors independently from the corporate insolvency proceedings of the issuers. There are a number of trigger events for default, the first being an issuer event of default. This can occur in a number of situations including the following:

- > Failure to pay any interest or principal amount when due.
- > Bankruptcy proceedings being ordered by a court or authority against the issuer.
- > Failure to rectify any breach of the ACT or ICT.

An issuer event of default would not accelerate payments to covered bondholders, but would allow the trustee to activate the guarantee by serving a notice to pay on the guarantor. Upon the guarantee activation, the cover pool is frozen losing its dynamic nature and no further covered bonds may be issued. The guarantor is required to meet the covered bond obligations using the cash flows generated from the cover pool.

With the exception of one outstanding series issued under the legacy Credit Suisse programme, the covered bonds have a non-discretionary soft-bullet structure, a maximal 12-months extension of the principal repayment, in order to allow the realisation of the cover pool. The repayment extension is only granted if the bondholder representative (trustee) has served a notice to pay and neither the issuer nor the guarantor have sufficient liquidity for the repayment of the covered bond series concerned. In case of Valiant Bank, the soft bullet structure may not only applied to a covered bond series after an issuer event of default but may also applied to all outstanding covered bond series after a guarantor event of default in order to reduce fire sale risk.

The second event of default is the guarantor event of default. This would arise after an issuer event of default if the guarantor failed to make any payments when due, failure of the amortisation test or bankruptcy of the guarantor. A guarantor event of default would cause the acceleration of payments to covered bondholders and their early redemption at the amount relevant to that particular covered bonds series.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

Swiss contractual-law based covered bonds have a 20% risk weighting under the standardised approach in accordance with the EU Capital Requirement Regulation (CRR) because they have not been issued by an EU credit institution. As of 1 January 2021, Swiss contractual-law based covered bonds cannot qualify for ECB repo eligibility because they are not subject to a legislative framework. Lack of legislation also means that Swiss contractual law based covered bonds are not eligible as level 1 or 2 assets under the European Commission LCR Delegated Act.

**Issuers:** Credit Suisse AG, Valiant Bank AG, Credit Suisse (Schweiz) AG, Crédit Agricole next bank (Suisse) SA and UBS AG.

**ECBC Covered Bond Comparative Database:**

<http://www.ecbc.eu/framework/show/id/82>  
[https://www.ecbc.eu/framework/92/Credit\\_Suisse\\_CB](https://www.ecbc.eu/framework/92/Credit_Suisse_CB)  
[https://www.ecbc.eu/framework/78/UBS\\_CB](https://www.ecbc.eu/framework/78/UBS_CB)  
<https://www.ecbc.eu/framework/115/Valiant>

### **3.40 TURKEY**

By Deniz Caner Kurt, Garanti Bank

#### **I. FRAMEWORK**

Turkish mortgage-covered bonds are branded as “*İpotek Teminatlı Menkul Kiyimet* (“*İTMK*”)” and “Mortgage Covered Bond (“MCB”)” in Turkish and English respectively and are trademarked by the legislation.

The primary legislation with respect to the *İTMKs* is the Capital Markets Law No. 6362 (“CML”) and the secondary legislation is the Communiqué on Covered Bonds<sup>1</sup> No. III-59.1 (“Communiqué”) which was published by the Capital Markets Board (“CMB”) on 21 January 2014 (as amended from time to time). The Communiqué regulates the MCBs as well as other asset-backed covered bonds; however, this chapter will focus exclusively on MCBs.

Together with its predecessors, the Communiqué is part of a series of legislation following the enactment of “The Housing Finance Law (No: 5582)” on 6 March 2007, which aims to establish a healthy and functioning housing finance system in Turkey.

#### **II. STRUCTURE OF THE ISSUER**

*İTMKs* are capital market instruments qualified as debt instruments, issued within the scope of the issuer’s general liability and collateralized by cover assets.

*İTMKs* may be issued by housing finance institutions (HFIs) and mortgage finance institutions (MFIs). While MFIs are joint stock companies defined in Article 60 of the CML (which entities are joint stock companies, established for the purpose of acquiring and transferring assets with qualifications designated by the CMB, managing such assets or taking such assets as collateral and conducting other activities approved by the CMB within the scope of housing finance and asset finance), HFIs are banks, financial leasing companies and finance companies authorized by the Banking Regulatory and Supervision Agency (“BRSA”) to perform housing finance activities.

The issuers are required to obtain CMB approval for the issuance certificate which provides an annual blanket limit and the tranche issuance certificate before each issuance. For the public offerings in Turkey, the prospectus has to be CMB approved as well.

#### **III. COVER ASSETS**

An issuer of MCBs is required by the Communiqué to maintain a cover pool for the benefit of such MCBs, which must be in compliance with, *inter alia*, quantitative statutory tests and the eligibility criteria of the Communiqué. Pursuant to the Communiqué, a cover pool may be created with the following assets:

- > receivables of banks and finance companies, resulting from house financing as defined in Article 57 of the CML, which have been secured by establishing a mortgage at the relevant registry;
- > commercial loans and receivables of the banks and financial leasing companies and finance companies, which have been secured by establishing mortgage at the relevant registry or, if approved by the CMB; otherwise,
- > substitute assets, which include cash (including cash generated from cover assets), Turkish government bonds issued for domestic and foreign investors, securities issued or secured by the central government or the central banks of OECD member states, among some others, and
- > derivative instruments fulfilling the conditions of the Communiqué. The Communiqué caps the ratio of the net present value of commercial loans/receivables and the substitute assets separately at 15% of the total net present value of the cover assets.

<sup>1</sup> <http://www.mevzuat.gov.tr/Metin.aspx?MevzuatKod=9.5.19314&MevzuatIliski=0&sourceXmlSearch=Teminat%C4%B1%20Menkul%20K%C4%B1yimetler%20Tebli%C4%9Fi>.

In Turkey, almost all mortgage loans are fixed rate loans and, as a result of a change of law in 2009 requiring loans to Turkish citizens to be denominated in Turkish Lira, all are denominated in Turkish Lira other than a very small number of mortgage loans made to foreign citizens with residences in Turkey. Payments on mortgages are almost always monthly and generally are effected by having the lending bank withdraw funds from a bank account held by the borrower with the lending bank.

The maximum maturity for residential mortgage loans in Turkey is typically 240 months (with only one institution providing loans up to 360 months, while some major banks have a maximum maturity of 120 months).

Finally, as a matter of Turkish law, borrowers of mortgage loans are required to maintain earthquake insurance for the related real property, subject to a maximum claim of TL 240,000.

The Communiqué sets out the specific requirements that derivative instruments need to satisfy in order for such derivative instruments to be recognized as part of the cover pool. In general:

- > the derivative instrument must be traded on exchanges or the derivative counterparty needs to be a bank or financial institution (multi-lateral development agencies also qualify);
- > the derivative counterparty needs to have an investment grade long-term international rating (which is tested at the time of entry into of the derivative instrument);
- > the derivative instrument cannot be unilaterally terminated by the derivative counterparty even in the event of the bankruptcy of the Issuer; with the exception that, a provision that the parties may unilaterally terminate the agreements regarding derivative instruments in case of the events provided below may be included in such agreements:
  - the issuer fails to satisfy fully or partially its total liabilities and the cover assets including derivative instruments are not sufficient to meet the total liabilities,
  - the occurrence of impossibility, illegality under the applicable legislation and material change of legislation with respect to terms of the agreement,
  - the early redemption of the MCBs, and
  - the non-registration to, or removal from, the cover register of the agreement regarding derivative instruments contrary to the provisions thereof.

In addition, in order to include the provisions that the parties may unilaterally terminate the agreement in the above-mentioned events and in other events that the CMB deems similar to these events, the approval of the CMB must be obtained; and

- > the derivative instrument must contain fair price terms and reliable and verifiable valuation methods.

#### **IV. VALUATION AND LTV CRITERIA**

The immovable properties securing the mortgage loans must be located in Turkey and the market price of the immovable property is required to have been determined by an independent appraisal company that is listed by the BRSA or the CMB, at the time of utilization of the mortgage loan.

Typically, the appraisers (a) visit the relevant Land Registry Office, municipality and for on-site measurements the real property to be mortgaged, (b) conduct research regarding reference values.

With respect to loan to value requirements, the portions of the residential mortgage loans and commercial mortgage loans exceeding respectively 80% and 50% of the value of the real estate securing them shall not be taken into consideration in the calculation of the cover matching principles, which are discussed in detail in the following section.

The Communiqué requires the issuers to monitor the general changes in the property prices securing their mortgage loans and determine the ratio of such change annually at the end of each calendar year based upon a generally accepted index, if available. The best established index in Turkey is the Property Price Index (Konut Fiyat Endeksi) (the “KFE”) released by the Central Bank on a monthly basis. The calculation of the KFE is based upon the price data of all the properties sold in Turkey irrespective of the construction year of the properties. The price data is obtained from valuation reports prepared for the purpose of evaluating mortgage loan applications made to 10 Turkish banks. If the issuers identify a decline in the property prices within a specific geographical region or in Turkey in general, then they must decrease the value of the relevant property by applying the property price change ratio and re-calculate whether the cover pool assets comply with the requirements of the Communiqué.

#### **V. ASSET – LIABILITY MANAGEMENT**

The cover pool must also comply with certain cover matching principles, which shall be monitored by the issuer at every change relating to the cover assets and, in any case, at least once a month. The matching principles involve:

- > **Nominal value matching:** The nominal value of the cover assets may not be less than the nominal value of the MCB. While calculating the nominal value for purposes of this test, the balance of the principal amounts of the mortgage loans, the issuance price of the discounted debt instruments, and the nominal value of the premium-debt instruments shall be taken into consideration. Contractual value of the derivative instruments shall not be taken into consideration for the calculation of nominal value matching.
- > **Cash flow matching:** The sum of interest, revenues and similar income that are expected to be generated from cover assets within 1 year following the calculation date may not be less than the similar payment obligations expected to arise from total liabilities under the MCBs and derivative instruments if any, during the same period.
- > **Net present value matching:** The net present value of the cover assets must at all times be at least 2% more than the net present value of total liabilities under the MCBs and derivative instruments if any. This mandatory excess cover of 2% must be constituted of substitute assets.
- > **Stress tests:** The responsiveness of the net present value matching to the potential changes in interest rates and currency exchange rates shall be measured with monthly stress tests. In order to measure the effect of the changes in interest rates, the yield curves obtained from swap rates shall be slid downward and upward in parallel. Parallel sliding shall be made by increasing or decreasing the TL interest rate applicable for each maturity by 300 basis points and the foreign currency interest rate applicable for each maturity by 150 basis points. In order to measure the effect of changes to the currency exchange rates on the cash flows in foreign currency, the foreign exchange buying rate shall be increased and decreased by 30%.

#### **VI. TRANSPARENCY**

According to Article 15 of the CML, information, events and developments which may affect the value and price of capital market instruments or the investment decision of investors shall be disclosed to public by issuers or related parties.

The Public Disclosure Platform (PDP) is an electronic system through which electronically signed notifications required by the capital markets and Borsa Istanbul regulations are publicly disclosed. In addition to Borsa Istanbul companies and ETFs, investment firms, mutual funds, pension funds and foreign funds may submit notifications to PDP. Independent audit companies, on the other hand, send the electronically signed financial statements for which independent audit is required, to the relevant company electronically in order to be announced to the public. However, some information on PDP may be published only in Turkish. Please see <https://www.kap.org.tr/en/menu-content/About-PDP/General-Information> for further information.

In order to ensure that the covered bond holders are informed:

- > compliance reports on the cover matching principles and the notifications made by the cover monitor (a third party who monitors the cover pool) are required to be announced on the website of the issuer and on the PDP on the day on which the cover monitor delivers its report or the notification to the issuer;
- > an investor report is required to be announced on the website of the issuer and on the PDP within six business days following the end of the quarterly accounting period; and
- > the fact that the issuer has not fulfilled its payment liabilities under the MCBs partially or fully is required to be announced on the website of the issuer and on the PDP on the date when such fact is known to the issuer.

If MCBs are issued without any public offering, the above-noted announcements are required to be delivered to the MCB investors online, through the Central Registry Agency, and shall be published in the website of the issuer for access by the MCB investors. The Issuer can freely determine the method of such announcements if MCBs are issued abroad.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

Pursuant to the Communiqué, an issuer is required to appoint a cover monitor who will be responsible for monitoring the cover pool and will report to the CMB and the issuer with regard to the cover pool. The cover monitor is appointed by the issuer and must possess the expertise and experience necessary to fulfil all of its statutory duties. The company that conducts the independent audit on the financial statements of an issuer may not be designated as a cover monitor. The cover monitor is to be appointed through a cover monitor agreement, a copy of which is to be sent to the CMB within three business days of its execution. The cover monitor can only be removed from its duties by the issuer based upon just grounds to be submitted to the CMB in writing and by obtaining the consent of the CMB.

Cover monitor should, among others:

- > monitor formation of the cover pool with eligible assets;
- > monitor cover pool's compliance with cover matching principles and accuracy of the stress test measurements;
- > in case the cover register is kept in electronic form, inspect the adequacy of such system and submit a report including the results of this inspection to the issuer, together with a copy to the Board;
- > examine the accuracy of the entries made regarding addition, removal or replacement of cover assets by reviewing the underlying loan documentation and other information and documents, as it may deem necessary;
- > in the event of a cover matching principle violation or a default by the issuer, inspect whether measures in connection therewith set forth under the Communiqué is followed;
- > prepare a report at least semi-annually (at least quarterly in case of issuances offered to public in Turkey) indicating its findings regarding compliance with cover matching principles and entries made regarding removal or replacement of cover assets and, if applicable measures to be taken following violation of cover matching principles or default.

The cover monitor is required to report any inconsistencies in the cover register or failures in matching principles to the issuer.

The cover monitor is also authorised to conduct a discretionary review of the cover assets, including substitute assets as well as the derivative instruments in place.

## **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

A cover register held by the issuer permits the identification and segregation of the cover assets. The collateral backing the MCBs is to be registered in book and/or in electronic form.

Until the MCBs are completely redeemed, even if the management or the supervision of the issuer is transferred to public institutions, cover assets cannot be disposed of for any purpose other than securing MCBs, pledged, or designated as collateral, attached by third parties, including for the collection of taxes or other public receivables, or subject to injunctive decisions of courts or included in the bankruptcy estate of the issuer.

In the event that: (a) the management or supervision of an issuer is transferred to public institutions, (b) the operating license of an issuer is cancelled or (c) an issuer is bankrupt, the CMB may appoint another bank or a mortgage finance institution (in both case, satisfying the requirements for issuers of covered bonds), the cover monitor, another independent audit company or an expert third party institution approved by the CMB to act as an administrator. This administrator would not be assuming the liabilities arising from the cover pool but would manage the cover pool and seek to fulfil the liabilities arising from the cover pool from the income generated from the cover pool.

The administrator may actively manage the cover pool to seek to ensure that the payments under the MCBs and derivative instruments arising from the cover pool are made in a timely manner, and if necessary may sell assets, purchase new assets, utilise loans or conduct repo transactions. The administrator also may (after obtaining the approval of the CMB) transfer the cover pool and the liabilities arising from the cover pool partially or fully to another bank or to a mortgage finance institution satisfying the qualifications required for issuers. In such case, transferee bank or MFI shall become the owner of the cover assets upon such transfer and shall become responsible for the payments arising from total liabilities. The administrator may also suggest the CMB that the MCBs be redeemed early.

Pursuant to the Communiqué, the covered bondholders and hedging counterparties do not need to wait until the completion of the liquidation of the assets in the cover pool for recourse to the other assets of the issuer, with respect to which they will rank pari-passu with unsecured creditors of the issuer.

## **IX. COMPLIANCE WITH EUROPEAN LEGISLATION**

As Turkey is not currently a member of the EU, MCBs are not UCITS-compliant and, therefore, are not compliant with the EU's Capital Requirements Regulation (CRR) and do not qualify for beneficial treatment under the CRR.

The EU opened accession negotiations with Turkey on 3 October 2005. As a candidate for EU membership, Turkey will be obliged to be compliant with EU Directives in case of full membership. Thus, in recent years Turkish authorities were strongly aligning banking regulations to EU standards. The revised Accession Partnership of the EU with the Republic of Turkey from 18 February 2008 foresees that Turkey adapts its regulations to the CRR.

The EU progress report on Turkey, published in October 2013, acknowledges that preparations in the area of financial markets are "advanced" and specifically mentions the newly adopted CML, which aims at "further aligning the legislative framework with the *acquis*", the whole body of EU law.

**Issuers:** VakifBank.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/50/Turkish\\_Covered\\_Bonds](https://www.ecbc.eu/framework/50/Turkish_Covered_Bonds)



## **3.41 UNITED KINGDOM**

By Ian Stewart, UK RCBC

The UK covered bond market has been established since 2003 and was initially based on general English law structured finance principles before the introduction by HM Treasury in March 2008 of a dedicated covered bond regulatory framework (the Regulated Covered Bonds Regulations 2008 (the “Regulations”)). The Regulations overlaid the existing general law and contractual structures, providing the necessary underpinning for compliance under Article 52(4) of Directive 2009/65/EC (the “UCITS Directive”) providing the UK structure with benefits including higher investment limits and higher investment thresholds for insurance companies. All UK regulated covered bonds also comply with the definition of covered bonds set out in Regulation (EU) 575/2013 (Capital Requirements Regulation, or “CRR”) thereby qualifying for lower risk-weightings. The Regulations were further amended in November 2011 and November 2012 to further promote the “transparency of UK covered bonds and creating a more prescriptive regulatory framework”<sup>1</sup>. The amendments became effective for regulated programmes from 1 January 2013. Following the UK’s departure from the EU in January 2021 the Covered Bond Directive will not be implemented in the UK until Third Country recognition is achieved. UK covered bond regulations are closely aligned to the Directive.

Regulated covered bonds are subject to special public supervision by the Financial Conduct Authority (FCA) as Special Public Supervisor, whose stated aims are to ensure a robust regulated covered bond market in the UK, and to ensure that quality is maintained to preserve investor confidence in the UK regulated covered bond market’s reputation. The FCA has a wide range of enforcement powers under the Regulations, including the power to issue directions, de-register issuers or fine persons for any breaches of the requirements under the Regulations.

### **I. FRAMEWORK**

Under the Regulations, in order to attain “regulated” status there are two general sets of requirements the issuers need to comply with: those relating to issuers and those relating to the covered bond programmes. Issuers are permitted (but are not required) to submit their covered bond programmes to the FCA for recognition. Those issuers and covered bonds that meet all of the criteria set out in the Regulations and are approved by the FCA are added to the register of regulated covered bonds maintained by the FCA<sup>2</sup>. The Regulations only apply to those covered bonds which have been admitted to the register. In practice, all programmes which are used for new primary public issuance are regulated under the RCB Regulations.

Most elements of the regulated covered bond structure are governed by contract, with the Regulations providing an overarching legislative and supervisory framework without prescribing the complete design and contractual arrangements for the product. Structures are, by and large, relatively homogenous among themselves as a consequence of a deliberate intention from relevant market stakeholders to ensure comparability between programmes. The Regulations do, however, prescribe certain key structural principles and requirements, including a minimum statutory overcollateralisation amount of 108%, the requirement that assets must always remain capable of covering claims attaching to covered bonds at all times, and priority of claims against the cover pool in a winding up scenario. The FCA also has a veto over material amendments to the contracts, broad powers to enforce its provisions and conducts its own rigorous ongoing review of regulated programmes.

1 All UK regulated covered bond key documents are available at the following link:  
<https://www.fca.org.uk/firms/regulated-covered-bonds/key-documents>.

2 The register may be found at <https://www.fca.org.uk/firms/regulated-covered-bonds/register>.

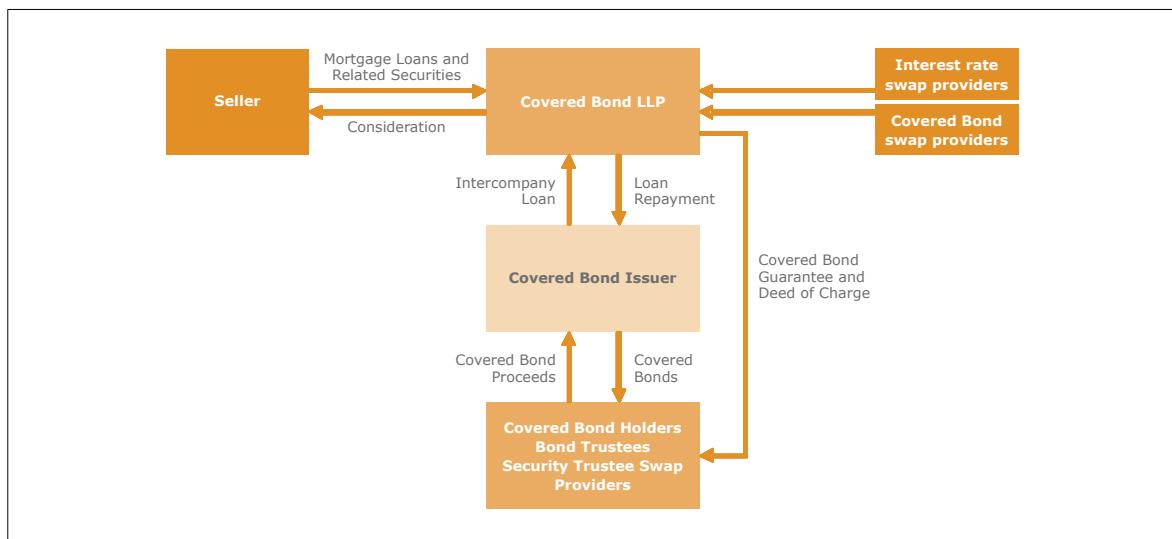
## **II. STRUCTURE OF THE ISSUER**

The Regulations require the issuer to be a credit institution authorised in the UK to carry out regulated activities, such as deposit-taking. It must also have a registered office in the UK and meet certain additional criteria set out by the FCA.

Regulated covered bonds are direct, unconditional obligations of the issuer; however, investors also have a priority claim over a pool of cover assets in the event of the insolvency of or default by the issuer. The Regulations require all cover assets (including any substitution assets) to be segregated from the insolvency estate of the issuer by being sold to a special purpose entity (referred to in the Regulations as the “owner”), which guarantees the issuer’s obligations under the bonds and provides security over the cover assets to a security trustee on behalf of the investors. All transactions to date have used a limited liability partnership (LLP) for this purpose, with the transfer effected via equitable assignment. The purchase price paid by the LLP for the cover assets is either cash (funded by an inter-company loan from the issuer) or a partnership interest in the LLP (a “capital contribution in kind”).

If the guarantee is activated, the LLP will use the cash flows from the cover pool to service the covered bonds. If these cash flows are insufficient, or within a certain timeframe of the legal final maturity of the bonds, the LLP is permitted to sell cover assets, within certain defined parameters and subject to meeting certain tests to ensure equality of treatment of bondholders.

> FIGURE 1: GENERIC UK COVERED BOND PROGRAMME STRUCTURE



Source: Programme Prospectuses

## **III. COVER ASSETS**

The Regulations broadly allow the following asset types:

- > Assets which are listed in Article 129 of the CRR, subject to the following restrictions:
  - > Exposures to credit institutions with ratings below Credit Quality Step 1 (AA-) as set out in the CRR are not permitted; and
  - > Securitisations are not permitted.

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- > Certain assets which are not permitted under the CRR – namely loans to registered social landlords and loans to public-private partnerships (and loans to providers of finance to such companies, and subject in each case to certain restrictions).
- > Liquid or “substitution” assets up to the prescribed limit (10% in most cases to date).

Issuers are required to designate programmes as either “single asset type” or “mixed asset type”. Mixed asset type programmes are allowed to include any of the assets set out above, whereas single asset type programmes would be required to select either residential mortgages, commercial mortgages, or public sector loans (including social housing and PPP loans, which are not CRR-eligible), in each case as defined in the CRR.

The Regulations include a narrow definition of liquid or “substitution” assets, which are defined as UK government bonds (or other government bonds which comply with the requirements set out in Article 129(1)(a) or (b) of the CRR or deposits in GBP or another specified currency held with the issuer or with a credit institution which comply with the requirements set out in Article 129(1)(c) of the CRR.

Cover assets must be situated in the UK, EEA states, Switzerland, the US, Japan, Canada, Australia, New Zealand, the Channel Islands or the Isle of Man. If an issuer includes non-UK assets in its cover pool, it must get confirmation that the laws of the relevant jurisdiction would not adversely affect the rights of the LLP or the security trustee.

The Regulations require cover assets to be of high quality, and the FCA is permitted to reject any application for regulated status if it believes that the quality of the proposed assets will be detrimental to the interests of investors in regulated covered bonds or the good reputation of the regulated covered bonds sector in the United Kingdom.

In all of the programmes that have been registered to date, the cover pools consist of assets with narrower eligibility criteria than those allowed under the Regulations, and comprise only UK residential mortgages and the substitution assets described above.

## **IV. VALUATION AND LTV CRITERIA**

The properties securing the mortgage loans are valued using UK mortgage market accepted practice. A surveyor is often used, although other methods (such as automated valuation models) are also accepted. Residential property values are indexed to either the ONS, Halifax or Nationwide real estate price indices, each of which reports quarterly on a region-by-region basis. Price decreases are fully reflected in the revaluation, while in the case of price increases a 15% haircut is generally applied.

The LTV limit for mortgages varies across the different programmes (see Figure 2), but in all existing programmes it is below the 80% level for residential mortgages required under the CRR and the Regulations. Loans with LTV above this limit may be included in the pool, but the amount of the loan which exceeds the limit is excluded from the Asset Coverage Test (ACT). Loans which are in arrears are either repurchased by the issuer or subject to additional haircuts (see Figure 2).

## **V. ASSET – LIABILITY MANAGEMENT**

For UK regulated programmes, overcollateralisation (OC) levels are determined by the higher of:

- (i) the regulatory minimum of 108% specified in the Regulations calculated on a nominal basis,
- (ii) contractual minimum amounts specified in the legal agreements,

3 For example: Let us assume a cover pool which contains two loans. Each loan has a principal balance of GBP 80 and is secured by a property worth GBP 100. If the ACT applies an LTV cap of 75% and an asset percentage of 90%, the issuer will get credit for GBP 144 of loans: applying the LTV cap would allow GBP 150 (maximum 75% LTV for each loan); but the asset percentage allows a lower amount (GBP 160 x 90% = GBP 144) and therefore takes precedence.

(iii) requirements imposed by the FCA, and

(iv) amounts required to pass the programme's ACT (in particular as required to support the given rating level from the relevant rating agencies).

However, the OC required by the rating agencies and/or FCA are typically higher.

A key principle of the Regulations is that they require the cover pool to be capable of covering all claims attaching to the bonds at all times. In addition to the amounts required either under the regulatory minimum or under the contractual requirements, the OC level for any programme is also considered by the FCA on a case-by-case basis, taking into account the quality of the cover assets, risk-mitigation measures (such as swaps and downgrade triggers) and asset-liability mismatches. The FCA has the power to require the issuer to add further assets to its cover pool.

The principal contractual requirement under UK structures is the presence of a dynamic ACT which is carried out on a monthly basis to ensure that minimum OC requirements are satisfied. The ACT requires the discounted value of the cover pool (after applying the haircuts listed below) to be equal to or exceed the principal amount outstanding of covered bonds. The following haircuts are applied:

- > The adjusted value of the mortgage pool is calculated by taking the lower of: (i) balance of mortgages up to the indexed LTV limit specified in the programme documents, and (ii) the asset percentage multiplied by the balance of mortgages.<sup>3</sup> Performing mortgages get credit 60-75% while for non-performing mortgages (i.e. >3m in arrears) this is 0-40%, depending on the programme.
- > Any cash or substitution assets are also included.
- > Additional haircuts are applied to mitigate set-off risk, redraw risk on flexible mortgages (if appropriate), and potential negative carry.

The asset percentage is determined on an on-going basis by the rating agencies and is subject to a maximum as set out in the programme documents (which corresponds to the minimum contractual requirement, Figure 2).

The issuer is required to rectify any breach of the ACT within a specified timeframe by transferring additional cover assets to the LLP. If the breach is not rectified within the allowed remedy period, the trustee will serve a notice to pay on the LLP (see Section VIII below). The issuer may also become liable to enforcement action by the FCA.

An amortisation test is run on each calculation date after the delivery of a notice to pay (see Section VIII below), which is designed to ensure that the cover pool will be sufficient to make payments under the covered bonds as required under the guarantee. The amortisation test is similar to the ACT, but more simply tests whether the principal balance of mortgages is sufficient to make payments in full on covered bonds, taking into account negative carry. If the test is failed, the covered bonds will accelerate against the LLP.

Most UK covered bond transactions currently in the market have been issued with a soft-bullet maturity. Following the service of a notice to pay, the legal final maturity may be extended, typically by 12 months, in order to allow the realisation of the cover assets. It is important to note that the issuer does not have the option to extend the bond's maturity; failure by the issuer to repay the bond in full on the scheduled maturity date would result in an event of default.

Certain programmes include a hard bullet option, whereby a "pre-maturity test" is designed to ensure that the LLP has sufficient cash available to repay the bonds, in full, on the original maturity date in the event of the issuer's insolvency. If, in a specified period before a maturity date (6-12 months, depending on the issuer and the rating agency), the issuer's ratings fall below certain specified triggers (typically A-1 / P-1 / F1), the pre-maturity test requires the LLP to cash-collateralise (either via cash contributions from the issuer or by selling cover pool assets) its potential obligations under the guarantee. Following the implementation of the

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LCR Delegated Act and the consequent liquidity impact of a hard bullet option, most issuers only use the soft bullet (extendible) maturity option going forward and indeed certain programmes have converted legacy hard bullet issuances to soft bullets via investor consent solicitation processes.

All regulated covered bond programmes include a number of other safeguards. In particular, there are minimum rating requirements for the various third parties that support the transaction, including the swap counterparties and bank account providers, and an independent asset monitor is required to undertake an audit of the cash manager's calculations on a regular basis. Furthermore, if the issuer's short-term ratings are below certain trigger thresholds (typically A-1+/P-1/F1+), the LLP is required to establish and maintain (from the asset cash flows), a reserve fund which is the higher of (i) the next three months' interest payments on a rolling basis, and (ii) the next following interest payment, together with the relevant amount of senior costs including a buffer. This amount is retained in the LLP's bank account.

## **VI. TRANSPARENCY**

UK regulated covered bond programmes benefit from extremely detailed investor reporting conventions. The market has conformed to a relatively high standard of reporting since inception, but in addition the FCA requires detailed reporting to be provided by regulated issuers in its capacity as special public supervisor.

Similarly, transparency is to a large extent driven by the eligibility criteria in the Bank of England (BoE) Sterling market operations, under which (among other things) issuers must publish transaction documentation, provide homogenised transaction summaries and investor reports, and publish loan level data.

FCA reporting requirements are closely aligned with the BoE criteria but also include certain additional items not included in the BoE criteria. Since the introduction of the updated amendments, all regulated issuers comply with both sets of rules.

In addition, seven of the fourteen UK regulated covered bond issuers (Clydesdale Bank, Coventry Building Society, Lloyds Bank, Nationwide Building Society, National Westminster Bank plc, Santander UK and Yorkshire Building Society) have adopted the ECBC label initiative and report in the UK National Transparency Template: <https://www.coveredbondlabel.com/issuers/national-information-detail/27/>.

## **VII. COVER POOL MONITOR AND BANKING SUPERVISION**

An applicant under the Regulations must be a credit institution authorised in the UK to carry out regulated activities, such as deposit-taking. Issuers must satisfy the FCA that their programmes comply with the criteria set out in the Regulations and provide, among other things:

- > Details on the quality of cover assets and the ability of the assets on the issuer's balance sheet to satisfy substitution requirements;
- > Details concerning the programme structure, such as the cover pool eligibility criteria, the formulae used to calculate compliance with minimum OC requirements, ability to meet payments on a timely basis and ratings triggers;
- > Details concerning asset and liability management, audit and controls, risk management and governance framework;
- > Details on the proficiency of cash management and servicing functions;
- > Detailed analysis on the ability of the assets and the mitigants within the programme structure to address inherent interest rate, currency, asset and liability mismatch and market value risks;
- > Arrangements for the replacement of key counterparties; and
- > Independent legal and audit opinions on the compliance of the issuer and programme with the Regulations.

The issuer is responsible for monthly cover pool monitoring. The FCA must be notified by the issuer of any breaches of the ACT, and may also require the issuer to provide such additional information about the cover pool as it considers fit. All existing programmes have at least one internationally recognised rating agency who will also undertake detailed reviews both on a condition precedent to each issuance, and thereafter on at least a quarterly basis as part of ongoing transaction surveillance. The rating agencies may revise the asset percentage as part of these review processes, either due to variations in asset quality or embedded transaction risk factors, or due to periodic rating criteria change.

All programmes since inception have included an independent third party asset monitor within the existing contractual arrangements who are required to perform various functions within the transaction including an annual review of the ACT calculation, and periodic audit procedures to be undertaken with respect to the asset pool.

In November 2011, the Regulations were updated to formally codify the role of an independent "Asset Pool Monitor" which (i) must be eligible to act as an independent auditor (ii) is conveyed with certain powers to inspect books and records associated with the relevant programme, (iii) must conduct a biannual inspection of the issuer's compliance with its duties as set out in the Regulations, and (iv) must report to the FCA on an annual basis (or sooner if the issuer is found to be failing to comply with its duties). These additional requirements became effective on 1 January 2013 and regulated programmes have generally been updated to reflect the amendments.

#### **VIII. SEGREGATION OF COVER ASSETS AND BANKRUPTCY REMOTENESS OF COVERED BONDS**

The Regulations require all cover assets (including any substitution assets) to be segregated from the insolvency estate of the issuer by being transferred to a special purpose entity (referred to as the "owner" in the Regulations), which guarantees the issuer's obligations under the bonds. All transactions to date have used an LLP for this purpose.

The Regulations require that the cover assets be recorded on a register maintained by or on behalf of the issuer and the LLP. The register must be available for inspection by the FCA. The issuer is responsible for ensuring that all cover assets meet the relevant eligibility criteria set out in the Regulations and, if applicable, any additional criteria set out in the programme documents.

The LLP becomes obliged to pay the covered bondholders under the guarantee upon delivery by the bond trustee of a notice to pay following the occurrence of an issuer event of default or other trigger event. The events which can trigger a notice to pay typically include:

- > Failure by the issuer or any group guarantors to pay any interest or principal on the covered bonds when due;
- > Bankruptcy or similar proceedings involving the issuer or any group guarantors;
- > Failure to rectify any breach of the asset coverage test (in most cases); and
- > Failure to rectify any breach of the pre-maturity test (if applicable).

To the extent that an issuer event of default has occurred, the bond trustee may commence proceedings against the issuer and any group guarantors on an unsecured basis on behalf of the covered bondholders. The delivery of a notice to pay does not however accelerate payments to noteholders, and the LLP will continue to make payments of interest and principal on the covered bonds on their originally scheduled payment dates (provided that an LLP acceleration event (as described below) has not occurred).

LLP acceleration events typically include:

- > The LLP fails to pay any interest or principal when due under the guarantee;
- > Bankruptcy or similar proceedings are commenced involving the LLP; and

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- > After delivery of a notice to pay, the LLP breaches the "amortisation test".

The occurrence of an LLP acceleration event causes the acceleration of payments by the LLP to covered bondholders and the redemption of the bonds at the relevant early redemption amount.

The LLP is reliant on the proceeds derived from the cover assets to make payments under the guarantee. Under the Regulations, in a winding up scenario, no claims against the cover assets can rank ahead of the claims of the regulated covered bondholders. If the proceeds from the cover pool are insufficient to meet the obligations to bondholders in full, investors will continue to have an unsecured claim against the issuer (and any group guarantors) for the shortfall.

## **IX. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

The list of eligible assets under the Regulations is in some respects narrower than that set out in the CRR (particularly for single asset type programmes as described above). To date, all existing regulated covered bonds are contractually restricted to containing only residential mortgage assets (as well as substitution assets up to the prescribed limit), meaning they are CRR-compliant. However, certain assets which are excluded from the CRR – such as loans to UK housing associations – are technically permitted in the cover pool under the Regulations, and so it is possible that in future programmes could be structured which would not qualify. The UK departure from the EU has resulted in some regulatory changes for investors in the EU and the details have yet to be clarified at the time of writing.

> FIGURE 2: OVERVIEW – REGULATED UK COVERED BOND PROGRAMMES

	BACR	BOS	CLYDES	COOP	COVBS	LEEDS	LLOYDS	NWIDE	NAT-WEST	SANUK	SKIP-TON	TSB	V-MONEY	YBS
Programme volume (bn)	€ 35	€ 60	€ 10	€ 4	€ 7	€ 60	€ 45	€ 25	€ 35	€ 7.5	£ 5.0	€ 7.0	€ 7.5	
Rating (M/F/S)	Aaa / AAA / AAA	Aaa / AAA / AAA / nr	Aaa / AAA / nr	A+/Baal	Aaa / AAA / nr	Aaa / AAA / AAA	Aaa / AAA / nr	Aaa / AAA / AAA	Aaa / AAA / AAA	Aaa / AAA / AAA	Aaa / nr / nr	Aaa / AAA / nr	Aaa / AAA / nr	
LTV cap	75%	60%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
House price index	Halifax	Halifax	Nation-wide	Halifax	Nation-wide	Halifax	Nation-wide	Halifax	Halifax	Halifax	Halifax	Halifax	Halifax	Avg. of Halifax & Nation-wide
Maximum asset percentage	83.0%	86.7%	86.2%	77.5%	90.0%	89.5%	89.0%	93.0%	90.0%	89.3%	92.5%	89.0%	92.5%	88.0%
Minimum OC*	20.5%	15.3%	16.0%	29.0%	11.1%	11.7%	12.3%	7.5%	11.1%	12.0%	8.1%	12.3%	8.1%	13.6%
Current asset percentage	83.0%	86.7%	86.2%	77.5%	87.0%	83.0%	89.0%	90.0%	90.0%	89.3%	90.0%	89.0%	84.4%	88.0%
Current OC	26.5%	31.9%	24.6%	30.7%	70.2%	55.5%	15.3%	26.5%	26.6%	19.1%	24.5%	25.0%	53.2%	24.7%
Credit for loans in arrears (> 3 months)	LTV<75: 40% LTV>75: 25%	No credit	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	LTV<75: 40% LTV>75: 25%	
Can issue hard bullets? *	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	No	No	No
Asset monitor	PwC	KPMG	Deloitte	PwC	Deloitte	Deloitte	PwC	PwC	Deloitte	Deloitte	PwC	KPMG	KPMG	Deloitte

Source: Investor reports, FCA Register.

\* OC = Overcollateralisation; minimum OC calculated as 1/maximum asset percentage.

\*\* Hard-bullets possible only if pre-maturity test is in place and passed / soft-bullets issued with 12-months extension.

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## **X. ADDITIONAL INFORMATION**

There are currently 14 regulated covered bond issuers in the United Kingdom: Bank of Scotland Plc (BOS); Barclays Bank Plc (BACR); Clydesdale Bank Plc (CLYDES); Co-operative Bank plc (COOP); Coventry Building Society (COVBS); Leeds Building Society (LEED); Lloyds Banking Group (LLOYDS), Nationwide Building Society (NWIDE); National Westminster Bank plc (RBS); Santander UK (SANUK); Skipton Building Society (SKIPTN); TSB (TSBLN); Virgin Money plc (VIRGMN); and Yorkshire Building Society (YBS).<sup>4</sup>

All are members of the UK Regulated Covered Bond Council (UK RCBC) and further details can be found at [www.UKRCBC.org](http://www.UKRCBC.org). Two issuers (Bank of Scotland and Coventry) also had unregulated programmes at the end of 2020.

The outstanding volume of regulated covered bonds at the end of 2020 amounted to EUR 96.0 bn equivalent, with a further EUR 1.8bn of unregulated covered bonds, giving a total value of outstanding bonds of EUR 97.8 bn (see Figure 3). This was down from EUR 110.2bn at the previous year end and was approximately the same level of bonds outstanding at the end of 2018.

New issuance of registered public bonds in 2020 amounted to EUR 9.1 bn, under 40% of the total recorded in 2019 as the Coronavirus pandemic and the availability of funds from the Bank of England under the Term Funding Scheme both had a negative impact on issuance volumes from April 2020 onwards, following a relatively active first quarter (see Figure 4). There was a further issuance of EUR 1.1bn of unregistered bonds in the year.

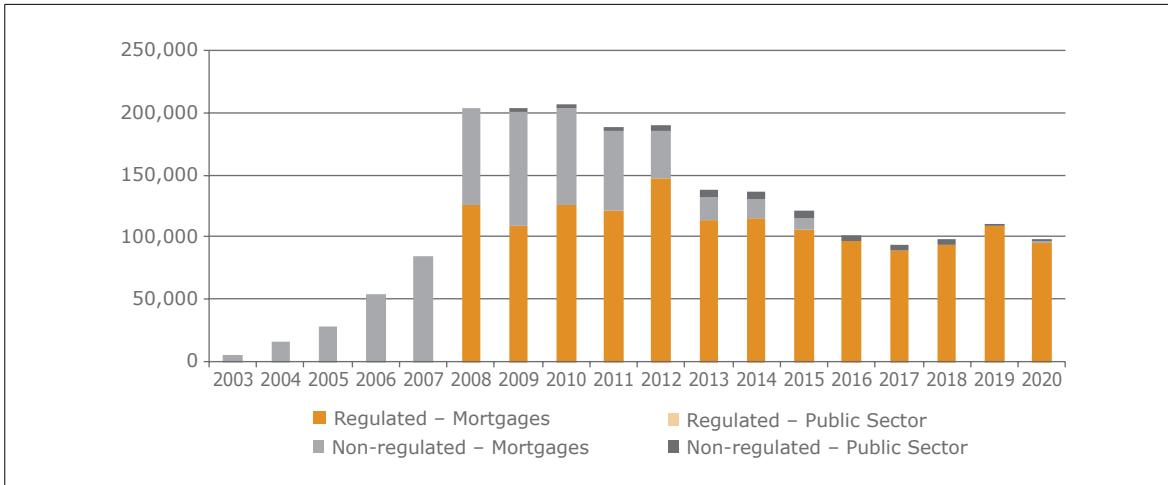
Redemptions during 2020 exceeded new issuance and totaled EUR 19 bn, leading to the drop in outstanding bonds. This reversed the trend observed in 2018-2019, when bonds outstanding and new issuance had grown year on year. The number of active issuers also fell in 2020 with only six of the fourteen issuers making public issues, compared to eleven in 2019.

As at 2020 year end, 50% of all UK covered bonds were denominated in EUR, with GBP making up the majority of the balance at 46% and other currencies representing only 4% of market share. The amount of the market represented by GBP issuance has been steadily growing over recent years as an increasingly deep and efficient wholesale funding source for most issuers. GBP transactions issued since 2014 are almost exclusively 3-5 year floating rate bonds. Since 2018 this has been based on a compounded daily SONIA rate. In 2020 60% of public issuance by UK issuers was denominated in sterling. In EUR, issuances tend to be fixed rate, with the vast majority in the 5-10 year tenor.

All new issuance for a number of years has been soft bullet maturities with under 3% of outstanding bonds having hard bullet maturities by the end of 2020.

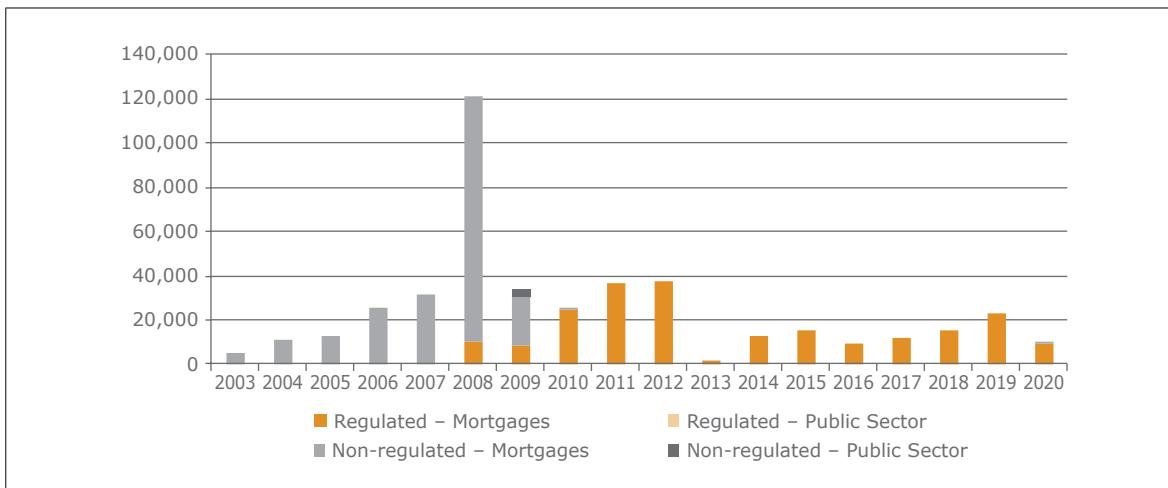
<sup>4</sup> <http://www.fca.org.uk/firms/regulated-covered-bonds/register>.

> FIGURE 3: COVERED BONDS OUTSTANDING, 2003-2020, EUR M



Source: EMF-ECBC. Please note that this data includes private placements, floating rate covered bonds and self-retained issuances that may have been used to access central bank liquidity.

> FIGURE 4: COVERED BONDS ISSUANCE, 2003-2020, EUR M



Source: EMF-ECBC. Please note that this data includes private placements, floating rate covered bonds and self-retained issuances that may have been used to access central bank liquidity.

**Issuers:** There are 12 regulated issuers each with one regulated mortgage programme (some regulated issuers also have unregulated programmes). For more details, please refer to the FCA's website: <http://www.fca.org.uk/firms/systems-reporting/register/use/other-registers/rcb-register>.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/52/Regulated\\_Covered\\_Bonds\\_-\\_RCB](https://www.ecbc.eu/framework/52/Regulated_Covered_Bonds_-_RCB)  
[https://www.ecbc.eu/framework/104/Unregulated\\_Covered\\_Bonds](https://www.ecbc.eu/framework/104/Unregulated_Covered_Bonds)

 **COVERED BOND LABEL**: National Westminster Bank Plc (1 pool), Clydesdale Bank PLC (1 pool), Coventry Building Society (1 pool), Santander UK plc (1 pool), Lloyds Bank plc (1 pool), Nationwide Building Society (1 pool), Yorkshire Building Society (1 pool).<sup>5</sup>

5 <https://coveredbondlabel.com/issuers/issuers-directory/>.

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By Steffen Dahmer, J.P. Morgan, Moderator of the ECBC Liquidity Task Force  
 & Chairman of the ECBC Market Related Issues Working Group

To date, no covered bond legislation has been passed in the US despite several attempts in the post-crisis period. Moreover, the previously issued structured covered bonds by Bank of America and Washington Mutual (acquired by J.P. Morgan) have now matured and there are currently no outstanding US covered bonds. The Federal Deposit Insurance Corporation (FDIC) published a Covered Bond Policy Statement back in 2008, which was supplemented by the US Treasury's Best Practices for Residential Covered Bonds. However, the covered bond market never took off on that basis, notably due to possible repudiation by the FDIC.

The last two legislation attempts, the United States Covered Bond Act in 2011 and the Protecting American Taxpayers and Homeowners (PATH) Act in 2013, aimed to address this concern together with other details but no proposal has made it through the full legislative process. Within PATH, covered bonds were discussed as a consequence of Government Sponsored Enterprises (GSEs) reform, but as a secondary priority.

In the following years, covered bonds were again mentioned twice by legislators, alluding to the possibility of US covered bond legislation in the future. First, a speech on 26 June 2014 by Jack Lew, then the US Treasury secretary, suggested possible new avenues where covered bonds could have a role to play alongside the GSEs. Second, the oversight plan of the Committee on Financial Services for the 114<sup>th</sup> Congress, which commenced in January 2015, mentioned explicitly the examination of covered bonds.

Since that time, however, little progress related to the development of a US covered bond market has materialised.

We note that the topic of large scale GSE reform re-emerged on the political agenda under the Trump administration: first, US Senator Mike Crapo published a Housing Reform Outline in February 2019, which was the subject of a two-part hearing by the United States Senate Committee on Banking, Housing, and Urban Affairs in late March 2019. Additionally, the White House issued a Presidential *Memorandum on Federal Housing Finance Reform* at the end of March 2019 that instructed the Secretary of the Treasury to develop a Treasury Housing Reform Plan that would, among other objectives, end the GSEs conservatorships and "[increase] competition and participation of the private sector in the mortgage market."

Published in September 2019, Treasury's Housing Reform Plan sets out multiple administrative and legislative proposed reforms to help accomplish these goals, including recapitalising the GSEs with "significant first-loss private capital". Covered bonds were even briefly mentioned in the Plan as one potential alternative "mechanism" to achieve separation of interest rate and credit risk for 30-year fixed-rate mortgage loans – the most prevalent US mortgage product– in a privatised world, citing the integral role that the Danish covered bond market plays in that jurisdiction's mortgage finance system.

Most recently, in November 2020 FHFA Director Mark Calabria issued the *Enterprise Regulatory Capital Framework Final Rule* ('Final GSE Capital Rule'), following a proposal issued in May 2020. The Final GSE Capital Rule stipulates that the GSEs must increase their regulatory capital holdings collectively to ~\$283bn, (or 4.27% as at 30<sup>th</sup> June 2020), paving the way for an eventual exit from conservatorship. To this end, in January 2021 Treasury and FHFA successfully amended the terms of the Preferred Stock Purchase Agreements (PSPAs) between Treasury and the GSEs, which now facilitate the GSEs' ability to retain additional capital, up to the amount required under the Final Capital Rule, by replacing the 'net worth sweep'; the amended PSPAs also allow for the GSEs to eventually issue common stock. However, the terms of the amended PSPAs now state that the GSEs cannot exit conservatorship until "*all material litigation relating to the conservatorship is settled or resolved*" and until their common equity tier 1 capital reaches at least 3% of assets, a level which will likely take years to accumulate given the current limited amount of capital held by Fannie Mae and Freddie Mac.

Ultimately, while steps have been taken towards the future privatisation of the GSEs, we believe that there is still significant uncertainty around the ultimate outcome – which is now heavily dependent upon the new Biden administration’s goals and agenda around GSE reform. Thus, we expect that further discussions related to the establishment of a US covered bond legislation are unlikely to materialise for the foreseeable future.

## **I. WHAT IS CURRENTLY IN FORCE**

### **The FDIC's Covered Bond Policy Statement**

The FDIC Covered Bond Policy Statement, effective from 28 July 2008, aimed to clarify the treatment of covered bonds in a conservatorship or receivership. Under the Federal Deposit Insurance Act (FDIA), any liquidation of collateral of an Insured Depository Institution (IDI) placed into conservatorship or receivership requires the consent of the FDIC during the initial 45 days or 90 days after its appointment, respectively. Under such conditions, covered bond issuers would need to hold extra liquidity to prevent any default during that time if the FDIC as a conservator or receiver were to fail to make payment or provide access to the pledged collateral. Conscious that this would impair the efficiency of covered bonds, the FDIC decided to grant consent for expedited access to pledged covered bond collateral for covered bonds meeting specific criteria.

Eligible covered bonds must be authorised by the IDI's primary federal regulator and cannot exceed 4% of total liabilities. They consist of non-deposit, recourse debt obligations of an IDI with maturity between one year and 30 years secured by eligible mortgages or AAA-rated mortgage-backed securities secured by eligible mortgages, if no more than 10% of the cover assets. Substitute assets may be included (namely US Treasury and agency bonds) as need be for prudent management of the cover pool. Eligible mortgages are defined as first-lien mortgages on one-to-four family residential properties underwritten at the fully indexed rate, relying on documented income and complying with the existing supervisory origination guidance. Issuers should also disclose LTVs for transparency purposes.

The FDIC consents include the following events: (1) if at any time after appointment the conservator or receiver is in default and remains so after actual delivery of a written request to the FDIC for 10 business days, the covered bond holders can exercise their contractual rights including the liquidation of the cover assets; (2) if the FDIC as a conservator or receiver of an IDI provides a written notice of repudiation of a contract to covered bond holders and the FDIC does not pay the damages due by reason of such repudiation within 10 business days after the effective date of the notice, covered bond holders can exercise their contractual rights including the liquidation of cover assets. The liability of a conservator or receiver in such circumstances shall be limited to the par value of the covered bond issued plus interest accrued following its appointment. The statement also highlights that these consents do not waive, limit or affect the rights or powers of the FDIC.

### **The US Treasury's Best Practices**

The Treasury Best Practices issued in July 2008 supplement the FDIC's covered bond policy statement. Their purpose was to support the growth of a transparent and homogeneous covered bond market in the absence of dedicated US legislation. While targeting high-quality residential mortgages to safeguard market liquidity and stability, the US Treasury did not exclude at the time expansion of the covered bond market to other asset classes. As emphasised by the US Treasury, these best practices do not provide or imply any government guarantee but serve only as a template with the following key features:

- > **Issuer:** can be (1) an IDI and/or a wholly owned subsidiary of this IDI (the so-called “direct issuance structure”) or (2) a newly created bankruptcy SPV (“SPV structure”). Issuance authorisation must be provided by the IDI's primary federal regulator. Only well-capitalised IDIs may issue covered bonds.
- > **Cover assets:** are owned by the IDI and remain on balance sheet, but must be clearly identified and provide a first priority claim to covered bond holders. The issuer must enter into a Specified Investment contract with one or more financially sound counterparties which, in case of issuer default or FDIC repu-

diation, will continue to pay interest and/or principal accordingly as long as proceeds from cover assets at least equal the par value of covered bonds.

- > **Covered bond terms:** must be between one and 30 years; issuance may be in any currency as long as currency risks are hedged; bonds can be fixed or floating. Interest rate swaps may be entered for hedging purposes with financially sound counterparties, which must be disclosed to investors. SEC registration is possible but not a requirement.
- > **Eligible assets:** must be performing first-lien residential mortgages on one-to-four family residential properties with 80% maximum LTVs. Underwriting must be at the fully indexed rate, with documented income and in line with the existing supervisory origination guidance. Any loan that has been non-performing for more than 60 days should be replaced. A single Metro Statistical Area must be a maximum 20% of the cover pool.
- > **Overcollateralisation (OC):** must be at least 5% of outstanding covered bonds at all times. When calculating the cover pool value, loans with a LTV exceeding 80% are still eligible but up to the 80% LTV limit only. LTVs must be indexed on a quarterly basis using a nationally recognised, regional housing price index or other comparable measurement.
- > **Issuance limit:** is capped at 4% of the IDI's liabilities after issuance.
- > **Asset Coverage Test (ACT):** must be performed on a monthly basis by an independent Asset Monitor to safeguard the quality and adequacy of the cover pool. Results must be made public. The asset monitor must also periodically check the accuracy of the ACT. Any ACT breach must be remedied within one month. If not after one month, the Trustee may terminate the program and return principal and accrued interest to covered bond investors. During an ACT breach, no covered bond can be issued.
- > **Disclosure:** must be monthly. If substitute assets account for more than 10% of the cover pool within any month (or 20% within any quarter), the issuer must provide updated information on cover assets to investors. Any material information on the IDI's or SPV's financial profile or on any other relevant area must also be made public.
- > **Independent trustee:** must be designated by the issuer to represent the interests of covered bond investors and enforce their rights over the cover pool in case of issuer insolvency. All covered bond holders backed by a common cover pool rank pari-passu.
- > **Insolvency procedures:** the FDIC has three options at its disposal: (1) covered bonds are repaid according to initial terms; (2) covered bonds are paid off in cash, up to the value of the pledged collateral; (3) liquidation of the pledged collateral is permitted to pay off the covered bonds. Options (2) and (3) occur in case of default or FDIC repudiation as mentioned above. In such cases, covered bond holders will recover up to the value of the collateral. Any collateral excess must be returned to the FDIC, while covered bond holders rank pari-passu with unsecured debt holders for the amount due in the event of a shortfall.

## **II. TWO KEY LEGISLATION ATTEMPTS SO FAR**

### **United States Covered Bond Act**

The 112<sup>th</sup> Congress saw an active push for the establishment of covered bond legislation in the US during 2011. The United States Covered Bond Act of 2011 was the most concerted attempt yet in that respect, although it never completed the full legislative process. For legislation to become law, identical text needs to be approved by both the House of Representatives (HR) and the Senate, and the final legislative text then signed by the President. This was not the case as the Bill approved at the HR ("H.R. 940") contained some differences from that introduced at the Senate ("S. 1835") despite their similarities. These were as follows: an expansion of the definition of eligible issuers; for issuers that are not subject to the jurisdiction of a federal banking agency,

the covered bond regulator would be the Board of Governors of the Federal Reserve System rather than the Secretary of the Treasury; a right afforded to the respective covered bond regulator and a majority of covered bond holders to replace the independent asset monitor; the omission of tax provisions. Furthermore, the start of the 113<sup>th</sup> Congress on 3 January 2013 meant that it needed to be re-introduced.

The US Covered Bond Act, whether in its "H.R. 940" or "S. 1835" format, contained major differences from the FDIC and US Treasury's foundations, especially with respect to the following points:

- > **Covered bond regulators:** must be the Federal banking agency where appropriate, otherwise the Board of Governors of the Federal Reserve System ("S.1835") or the Secretary of the Treasury ("H.R. 940").
- > **Eligible assets:** consist of any first-lien residential mortgage loan secured by a one-to-four family residential property but also (1) any residential mortgage loan insured or guaranteed e.g., under the National Housing Act; (2) commercial mortgage loans (including multi-family); (3) public sector assets – namely any bond or loan from or insured/guaranteed by a State, municipality or other governmental authority; (4) any auto loan or lease; (5) any student loan (guaranteed or unguaranteed); (6) any extension of credit to a person under an open-end credit plan; (7) any loan made or guaranteed by a small business administration; (8) any asset designated by the Secretary, by rule and in consultation with covered bond regulators.
- > **Eligible issuers:** include any FDIC depository institution (or subsidiary), bank or savings and loan holding companies (or subsidiary) but also registered nonbank financial companies such as any intermediate holding company. "S.1835" widens eligible issuers to brokers or dealers and supervised insurers as well.
- > **Substitute assets:** are limited to 20% of cover assets and may be cash, direct obligations of the US State or GSE of the highest credit quality.
- > **Issuance limit:** must be established upon the soundness of the underlying issuer while the maximum amount of covered bond to be issued must be defined as a percentage of the issuer's total assets (with a possible review of this cap, whether up or down, on a quarterly basis).
- > **Overcollateralisation:** must meet the minimum defined by the Secretary for each asset class but no specific amount is mentioned. Cover pool must be single asset only.
- > **Insolvency procedures:** gives specific powers to the FDIC which, if appointed as a conservator or receiver prior to a default event, shall have an exclusive right during the one-year period beginning on the date of the appointment to transfer any cover pool owned by the issuer in its entirety, together with all covered bonds and related obligations. During that year, the FDIC shall ensure the full and timely payment of covered bond holders. In case of default prior to conservatorship or receivership, a separate estate shall be created for each affected covered bond programme which comprises all related cover assets and covered bonds. This estate is fully liable for covered and other secured obligations only. In case of collateral insufficiency, covered bond holders retain a residential claim against the issuer.

### **The PATH Act**

In 2013, political interest in covered bond legislation emerged again as part of broader reform initiatives addressed in the Protecting American Taxpayers and Homeowners (PATH) Act. PATH aimed notably to reform the GSEs in order to prevent any future liability to taxpayers and increase mortgage competition, enhance transparency and maximise consumer choices. Details related to covered bonds in the PATH Act were similar to the US Covered Bond Act of 2011, with the Treasury being proposed as a regulator instead of the Fed. However, this bill, a Republican initiative, lacked bipartisan support unlike the previous one, notably as it foresaw the wind-down of the GSEs, and was ultimately unsuccessful.

### **III. WHERE DO WE STAND?**

Covered bonds were mentioned twice by legislators since both the Covered Bond Act of 2011 and PATH. First, a speech made in the summer 2014 by then US Treasury secretary, Jack Lew, revived hopes of US covered bond legislation as the US government was looking for private solutions to support mortgage lending. In a survey published by the US Treasury for market feedback, the emphasis was on residential mortgage-backed private label securities (PLS) and thus not directly targeted at covered bonds. However, they were seen as complementary with a new attempt at covered bond legislation possibly emerging from the political debate.

Second, the oversight plan of the Committee on Financial Services for the 114<sup>th</sup> Congress, which was released in January 2015, mentioned covered bonds. As stated in the document, "*The Committee will examine the potential for covered bonds to increase mortgage and broader asset class financing, improve underwriting standards, and strengthen U.S. financial institutions.*" However, since this time, limited progress has been made regarding any further attempts to institute a covered bond framework in the US.

Though the complex topic of GSE reform re-emerged as a political priority under the former Trump administration, following the release of a *Presidential Memorandum on Federal Housing Finance Reform* by the White House in late March 2019, subsequent Housing Reform Plan from the US Department of the Treasury in September 2019, and the Final GSE Capital Rule in November 2020, substantive reform to US housing finance will take time, particularly as priorities under the new Biden administration may shift. Thus, while covered bonds could still eventually have a role to play in the jurisdiction, we believe that the initial hurdle of GSE reform will continue to delay the establishment of a covered bond market in the US.

### **IV. RISK-WEIGHTING & COMPLIANCE WITH EUROPEAN LEGISLATION**

US covered bonds are neither UCITS 52(4)-compliant nor CRR-compliant given the absence of EU membership.<sup>1</sup> Therefore, they do not benefit from preferred risk-weighting for regulatory capital purposes. Under the Standardised Approach, they are treated similarly to senior unsecured bank debt. That said, if denominated in €, US covered bonds are eligible for European Central Bank repo operations, conditional on an investment grade rating. Specific haircuts are applied depending on the rating and characteristics of the covered bond. However, since there are no outstanding US covered bonds, this is not currently applicable.

**Issuers:** JP Morgan, Bank of America Corporation.

**ECBC Covered Bond Comparative Database:** [https://www.ecbc.eu/framework/57/US\\_Covered\\_Bonds](https://www.ecbc.eu/framework/57/US_Covered_Bonds)

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<sup>1</sup> Please click on the following link for further information on the UCITS Directive and the Capital Requirements Regulation (CRR): <https://hypo.org/ecbc/covered-bonds/>.



## CHAPTER 4 - RATING AGENCIES & METHODOLOGY





## **4.1 CREDIT RATING AGENCY APPROACHES: INTRODUCTION**

By Elena Bortolotti, Barclays, Chairwoman of the ECBC Rating Agency Approaches Working Group

Looking back over the past 12 months, from the perspective of the Rating Agency Approaches (RAA) Working Group, it has turned out to be by and large uneventful. I am pleased to report that the Rating Agencies have not made any significant changes to their methodologies nor to sovereign, bank or covered bond ratings as a consequence of the COVID-19 pandemic.

In my brief introduction, I would like to share with you some of the amendments introduced by the Rating Agencies to their methodologies including a summary of their environmental, social and governance (ESG) assessments factors and finally some remarks on the transposition of the Covered Bond Directive.

With regards to covered bond rating methodologies, since the last edition of the ECBC Covered Bond Fact Book 2020, Fitch and Moody's introduced some amendments while Scope, at the time of writing, has released a request for comments on a proposed update to their methodology. Below is a brief summary of some of the changes introduced by Fitch, Moody's and Scope's proposed amendments:

- > Fitch introduced a COVID-19 related overlay to some of their refinancing spread level assumptions and updated some of their asset analysis assumptions for commercial real estate (CRE).
- > Moody's introduced some amendments to their approach for analyzing cover pools containing CRE mortgage loans. There were two key revisions to their methodology. Firstly, they added a detailed description of how they approach modelling for CRE loans, how they calculate expected losses and how they determine the loss distribution. Secondly, they introduced a revised approach to how they calibrate CRE property value haircuts. This included utilization of a minimum yield concept as well as market data on CRE yields and long-term government bond yields to calculate haircuts in order to determine market cycle-neutral property values. The adjusted approach also included the introduction of a floor to the collateral score for CRE cover pools and alignment of the correlation framework for the CRE cover pool analysis with the one used in their EMEA CMBS rating approach.
- > Scope's proposed update of its covered bond rating methodology further clarifies and refines its analytical approach. The core principles of the rating approach remain unchanged and the methodology as proposed would have no impact on existing covered bond ratings. Worth mentioning is the introduction of a cover pool complexity score defined as a "score reflecting the interplay of complexity and transparency of covered bond programmes limiting the potential cover pool support uplift".

DBRS and Standard & Poor's have not made any amendments to their covered bond methodologies this year. A summary of the key features of the Rating Agencies' methodologies can be found in Figure 1 below.

Another key theme that has become more and more relevant over the last year, for the covered bond community, is the proliferation of green, social or sustainable covered bond issuances. As a consequence all rating agencies have introduced ESG considerations in their covered bond rating methodology. Below a brief summary of the Rating Agencies' ESG assessment approaches.

- > DBRS has developed an ESG assessment framework that encompasses up to 17 ESG risk factors that it considers in its rating analysis. 8 out of the 17 ESG risk factors are taken in consideration in their covered bonds' rating analysis. ESG considerations typically arise from either the collateral backing the covered bonds, from the transactions' counterparties or from the covered bond structure.
- > Fitch's approach to ESG is focused on assigning ESG Relevance Scores to debt instruments including covered bonds. ESG Relevance Scores are assigned by the same analysts as the final rating. Individual environmental, social and governance relevance scores range from '5' to '1'. A score of '5' indicates factors that on a standalone basis have a direct impact on the rating. Conversely, a score of '1' indicates

factors which have no credit impact or are irrelevant to the sector and the entity/transaction/programme from a credit perspective.

- > Moody's ESG methodology includes two frameworks which they are currently implementing for analysing ESG exposures and credit impacts respectively. 1. Issuer profile scores (IPS) function as inputs to their ratings and indicate the ESG exposures of an issuer or transaction expressed on a numeric scale from E-1/S-1/G-1 (Positive) to E-5/S-5/G-5 (Very Highly Negative). 2. Credit impact scores (CIS) explain the impact of ESG considerations on a given issuer or transaction rating and is expressed on a scale of 1 to 5, indicating materiality. The CIS is based on their qualitative assessment of the impact of ESG considerations in the context of the other credit drivers that are material to the rating.
- > Scope's ESG factors are a vital and core element of Scope's Bank Rating Methodology. The ESG-D factors assess a banks' long term sustainability and digital transition preparedness and can either notch up or down the initial anchor rating. Furthermore, when rating a covered bond governance factors (qualitative) as well as social and environmental (quantitative) factors become a relevant component of Scope's covered bond rating process.
- > S&P incorporates the ESG factors into its ratings methodology and analytics, which enables analysts to factor in potential qualitative and quantitative impacts during multiple steps of the credit analysis. Environmental and social credit factors may affect the quality of the assets in the cover pool and the results of their collateral analysis. On the other hand, governance factors, may affect the uplift that S&P assigns to a programme above the Issuer Credit Rating.

In the pages that follow this introduction, you can find the Rating Agencies' covered bond methodologies as well as their ESG assessment factors applied to covered bonds.

Last but not least, the RAA Working Group continues to closely monitor how member states intend to transpose the Covered Bond Harmonisation package. The Rating Agencies' views on the final Directive and Regulation remain positive. In particular, the introduction of minimum standards will likely prompt the development of covered bond markets and the improvement of legal frameworks in certain countries. Among the most credit positive features cited is the introduction of a mandatory liquidity buffer covering 180 days of interest and principal outflows as well as a required overcollateralisation limit. It remains to be seen how some structural features, such as maturity extension triggers and liquidity buffer calculation, will be transposed but this will be a topic of discussion for the coming year.

In conclusion, I would like to take this opportunity to thank all members of the ECBC RAA Working Group for their input and participation. Furthermore, I would like to thank Luca Bertalot and his team for coordinating, organising and keeping us up to date on all covered bonds related topics.

> Figure 1: Covered Bonds Rating Methodologies

<b>Building Block Towards Rating</b>	<b>Fitch</b>	<b>Moody's</b>	<b>S&amp;P</b>	<b>DBRS Morningstar</b>	<b>Scope</b>
<b>Minimum Rating (Starting Point):</b>	IDR (Issuer Default Rating)	Counterparty Risk (CR) Assessment	ICR (Issuer Credit Rating)	CB AP (Covered Bond Attachment Point) = Critical Obligations Rating (COR); or Senior Unsecured Rating (SUR) + uplift	Issuer Rating (IR)
<b>Additional Notches via: CB Law</b>	-	-	-	-	-
<b>EU's BRRD or equivalent</b>	uplift 0-2 notches (resolution uplift) = Resolution Reference Point	uplift 1 notch	uplift 0-2 notches = RRL (Rating Reference Level)	Considered to determine the CBAP	Taken into account in Recovery Regime
<b>Segregation/Bankruptcy Remote</b> <b>Systemic Importance/Jurisdictional Support</b>	Payment Continuity Uplift (PCU) (maximum 8 notches) Recovery Uplift (up to 2 notches; 3 NIG)	TPI (Timely Payment Indicator) (max +9 notches if also achievable by expected loss model)	RRL + max 3 notches (systemic importance; legal framework; sovereign credit capacity)	LSF (Legal and Structuring Framework) (max +10 notches)	Legal Framework (+2 notches) Recovery Regime (+4 notches)
<b>Cover Pool/Asset Quality</b>	Assessed as part of OC stress testing	Assessed to determine uplift over CR assessment +1	uplift of 1-4 notches +2 for credit risk; +2 for refinancing costs	CPCA (Cover Pool Credit Assessment) +up to 2 notches for recovery prospects	Cover Pool Analysis +0-3 notches
<b>Maximal Rating Possible above Starting point: (achievable with CPT Delinkage or appropriate liquidity mitigants)</b>	2+8+2 (12 notches possible for CPT)	Capped at country ceiling	2+3+4 notches (unlimited for CPT)	10+2 notches	6+3 notches (CPT assessed case by case)
<b>Capped by Country Ceiling</b>	✓	✓	✓	NO (considers country, redenomination and capital control risks in accordance with Global Sovereign rating methodology)	NO (Macroeconomic factors & credit quality main factors)
<b>OC Commitment/Counterparty risk/Hedging</b>	Level of OC relied upon (legal, contractual, used in ACT, lowest OC in last 12 months for issuers rated at least 'F2') is compared with the breakeven OC for a given rating. Counterparty risk mitigation considered	Uncommitted OC: gives credit where issuer highly rated, plus certain other criteria  Committed OC: gives credit for contractually committed OC above min level required by legislation	uncommitted OC: max achievable rating -1 notch  counterparty or country risk might limit max rating if adequately mitigated/hedged	gives credit for contractually committed OC above min level required by legislation and to uncommitted OC deemed sustainable	IR ≥BBB: Available OC; <BBB: publicly communicated OC; ≤BB: contractual OC commitment

Source: DBRS, Fitch, Moody's, Standard & Poor's and Scope



## 4.2 DBRS MORNINGSTAR COVERED BOND RATING METHODOLOGY

By Ketan Thaker and Christian Aufsatz, DBRS Morningstar

### INTRODUCTION

DBRS Morningstar “Rating and Monitoring Covered Bonds” global methodology involves the analysis of four building blocks:

1. Covered Bonds Attachment Point (CBAP);
2. Legal and Structuring Framework (LSF) Assessment;
3. Cover Pool Credit Assessment (CPCA); and
4. Credit for high recovery prospects provided by the cover pool (CP).

The assignment of ratings to covered bonds (CB) transactions involves determining the LSF-implied Likelihood (LSF-L) for the programme based on the CBAP, LSF assessment and CPCA. Once the LSF-L is determined, ratings are assigned by incorporating credit for the CP’s ability to provide support following an assumed default of the CBs.

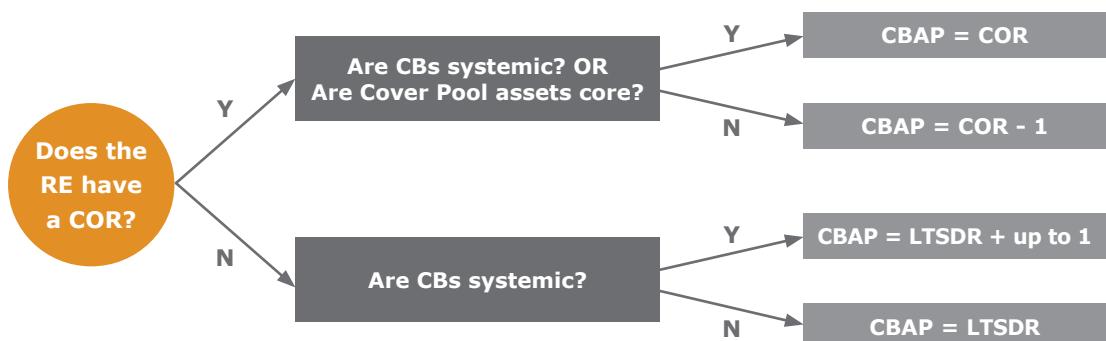
### THE FOUR BUILDING BLOCKS

#### 1. Covered Bonds Attachment Point

CBs have dual recourse. The payment obligation initially falls on the debtor of first recourse, called the Reference Entity (RE); failing that, the obligation falls on the CP.

The CBAP designates the RE’s credit strength (i.e., the probability that the RE—not the CP—will fulfil the payment obligation). The CBAP comprises a reference rating and, when applicable, a notching uplift schedule. The Critical Obligations Rating (COR) or the Long-Term Senior Debt Rating (LTSDR)<sup>1</sup> of the RE is the basis for the CBAP. There are four scenarios under which DBRS Morningstar determines the CBAP:

- A. For all European CB programmes where the RE is subject to the Bank Recovery and Resolution Directive (BRRD), DBRS Morningstar determines the CBAP as follows:



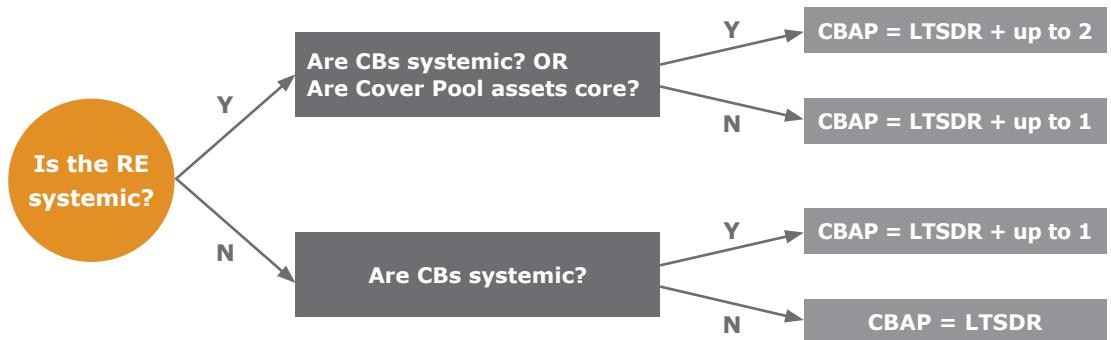
The COR addresses the default risk of particular obligations/exposures at banks that are more likely to be excluded from bail-in and remain in a bank in the event of the resolution of a troubled bank than other senior unsecured obligations. In cases where the bail-in tool is applied and the CB programme in its entirety remains with the going concern part of the RE in resolution, DBRS Morningstar expects that the COR will continue to be the base for the CBAP.

When the RE does not have a COR, and in cases where the bail-in tool is applied and the CB programme in its entirety remains with the going concern part of the RE in resolution, DBRS Morningstar expects that

<sup>1</sup> Or the Long-Term Issuer rating if DBRS Morningstar does not assign a Long-Term Senior Debt rating to the RE.

the CBAP would decouple from the LTSDR. At that point, the CBAP is set at a level that DBRS Morningstar considers consistent with the ability of the new RE to continue to be the source of payments for the CBs.

B. For all European CB programmes where the RE is subject to a resolution regime that DBRS Morningstar deems equivalent to the BRRD, DBRS Morningstar determines the CBAP as follows:



C. For Canadian CB programmes, DBRS Morningstar sets the CBAP at the level of the LTSDR of the RE (for the REs that are subject to the Canadian Bank Recapitalization Regime, the LTSDR tracks the non-bailable senior debt).

D. For CB programmes where the RE is not subject to the BRRD nor to a regime that DBRS Morningstar deems equivalent, DBRS Morningstar equalises the CBAP with the LTSDR.

## **2. Legal and Structuring Framework Assessment**

The LSF assessment is programme-specific. It limits the number of notches a CB default risk assessment can achieve above the CBAP.

DBRS Morningstar's LSF assessment captures the likelihood that payment obligations under the CB will be efficiently transferred from a troubled bank to a performing bank or the CP, administered by a third party. This assessment takes three areas into consideration:

- > Robustness of the CP segregation for the benefit of the CB holders;
- > Accessibility of CP cash flows on a preferential and timely basis, the need and ability to liquidate the CP, including likelihood of systemic support;
- > Contingency plans, including the involvement and responsibility of the regulator or the relevant Central Bank to facilitate the transfer, and regulator's support to the CB market, if applicable.

### ***Cover Pool Segregation***

DBRS Morningstar recognises that CB legislation is written to supersede the bankruptcy and insolvency laws within a jurisdiction. Legislations generally give CB holders privilege over the CP assets, taking preference over claims of any other creditor in the case of issuer insolvency. In the event of an insolvency, legislation typically allows the CP to be segregated from the bankruptcy estate.

DBRS Morningstar expects contractual CB programmes to largely address the issue of segregation. As such, DBRS Morningstar does not expect CP segregation to be a major constraining factor for its ratings. If there were serious doubts about effectiveness of segregation, the dual-recourse principle might be undermined, preventing the application of this methodology. However, DBRS Morningstar expects the issue to be addressed, either by law or the transaction's structural features. Nevertheless, instances where legal frameworks and structures have minor weaknesses in segregation mechanisms that are not effectively mitigated can have a limited impact on DBRS Morningstar's assessment.

## ***Timely Access to Cover Pool Cash Flows***

A reasonable expectation that the cover assets will be available to satisfy the claim of the CB holders following a default of the RE is a first step toward gaining comfort that the CB holders will be paid according to the terms of their investment. DBRS Morningstar performs qualitative analyses of the legal framework, structural features, specific characteristics of each CB programme and expectations of systemic support, in order to achieve this comfort.

In general, cover assets amortise over a time horizon beyond the scheduled amortisation of the liabilities. While the RE is able to meet payments on the CBs, the resulting mismatches in the maturity profile are unimportant, as the RE will use its own funding sources to meet maturing liabilities. Upon the failure of the RE, the source of payment switches to the CP. DBRS Morningstar consequently analyses the effective mismatches, as the conditions of the CB may provide for these to be modified conditionally to a default of the RE, and the manner in which they might be bridged.

The qualitative analysis aims at assessing the extent to which the CP composition, the programme's structural features and the legal framework interact to facilitate the CB investors' receipt of timely payments from the CP in a scenario where the RE is assumed to halt payments. This depends on the interaction of the constraints imposed by the programme structure and legal framework on how quickly the payments would need to be redirected to CB holders and how quickly financing sources become available to fund such needs. Other considerations in this analysis include the type of assets that may need to be liquidated and the time it takes to liquidate them; the presence of maturity extensions, prematurity tests or other features that give more time to explore alternative solutions; and how the programme structure foresees the CP detaching from the RE's influence in this timeframe.

## ***Contingency Plans and Supervision***

DBRS Morningstar views positively the regulator's involvement and the existence of contingency plans for the smooth transition from the RE to the CP as a source of payments to CB holders. Factors reviewed include but are not limited to the existence of a specific supervisor in charge of the CB programme in the normal course of operations, and the quality and content of the contingency plans in case of an issuer's default.

After reviewing these main factors under the LSF assessment, DBRS Morningstar assigns the CB one of five LSF assessments: Very Strong, Strong, Adequate, Average or Modest.

## **3. Cover Pool Credit Assessment and Overcollateralisation**

Once a CBAP and an LSF assessment are assigned to a CB programme, DBRS Morningstar assesses the CP quality to determine the LSF-L of the programme. This assessment represents the likelihood that the CBs will be repaid according to their terms, provided there is sufficient overcollateralisation (OC) to which DBRS Morningstar could give credit.

DBRS Morningstar analyses the wind-down of the CP and the repayment of the liabilities according to their conditions. The aim is to determine whether the interest and principal can be paid on time solely from the CP (including any structural enhancement) for a given rating scenario.

The CPC analysis is similar to the analysis performed for RMBS and SME CLOs transactions. It begins with an estimate of the probability of default (PD) and loss given default for each rating category based on the methodology applicable to the underlying assets, followed by an analysis of the stressed asset cash flows (including interest rates and exchange rates) from the underlying assets and an analysis of the way cash flows are allocated to liabilities based on the transaction documents.

Additionally, the CPC accounts for the timing of RE discontinuing its payments. This warrants an analysis of the periodic defaults on the underlying collateral versus a lifetime default expectation; assumptions regarding

principal amortisation and reinvestment; future interest levels, exchange rates<sup>2</sup> and senior costs; assumptions about collections in case of the RE's default under its obligations; and an estimate of the liquidation value of the underlying collateral in the event of the RE's default or inability to pay. In order to estimate liquidation values, DBRS Morningstar performs a net present value calculation based on projected cash flows generated by the CP and assumed interest rates stresses and market value spreads.

The CPC is the rating stress scenario that the structure can withstand given the OC to which DBRS Morningstar gives credit.

Due to the very nature of the product, the OC level changes, for instance, as a result of the amount of CBs issued or amortised under the programme, and assets added to or removed from the CP. Generally, the only legal obligation of the issuer or RE is to maintain a level of assets such that the regulatory tests are satisfied, and the minimum level of OC legally or contractually required is maintained.

Therefore, DBRS Morningstar typically gives full credit to the level of OC required by the national legislation or the secondary regulation and regulators' guidelines, as well as to the level of OC included in the contractual undertaking of the issuer or RE, provided that non-compliance with such undertakings would cause the RE to be in breach of contract under the program documentation. This point seems to be supported by the BRRD. However, DBRS Morningstar's conclusion might be affected by the BRRD's implementation in the local legislative framework. For levels above those, or where there is no public announcement, DBRS Morningstar determines a sustainable OC level by reference to the minimum-observed OC level during the past 12 months, adjusted by any increase that DBRS Morningstar judges to be persistent. This figure is then reduced by the following scaling factors, which vary by rating:

CBs rating	Scaling factors (x) to observed OC
AA (low) and above	0.85x
A (low) to A (high)	0.90x
BBB (low) to BBB (high)	0.93x
Below investment grade	0.95x

Source: DBRS Morningstar

Issuers may publish an announcement for a target OC level (e.g., in the form of a press release, a statement in the investors' report or on the RE website). However, these announcements are not viewed as favourably as an issuer's legal or contractual obligation. Therefore, the analysis will typically apply the above-detailed scaling factors to the publicly announced OC level. However, when DBRS Morningstar holds the view that the announced OC level can be considered persistent based on historically observed levels, the analysis may give full credit to it.

#### **4. Credit for High Recovery Prospects Provided by the Cover Pool**

In consideration of the essentially senior secured position of CB holders, DBRS Morningstar may give up to two notches of uplift from the LSF-L if the CP analysis shows that it would provide substantial support following a default of the CBs.

DBRS Morningstar runs a wind-down cash flow simulation aimed at covering the funding cost under a stress scenario in line with the rating. Then, DBRS Morningstar determines the percentage of principal payments received under the CBs versus their nominal amount, and assign a rating with an uplift from the LSF-L according to the following scale:

<sup>2</sup> The stresses to account for risk of unhedged currency risk are determined in line with the methodology – Currency Stresses for Global Structured Finance Transaction.

% of principal recovered	Notches uplift
>= 80%	+2
>= 60% but < 80%	+1
< 60%	0

Source: DBRS Morningstar

## **COVERED BONDS WITH PUBLIC SECTOR EXPOSURES**

CBs with public-sector exposures (PSE) deserve, in certain circumstances, a different type of analysis because of the high correlation between public-sector assets and the domicile sovereign. When the CP of PSE is concentrated in a single domicile sovereign, this materially increases the tail-event risk such that the impact of an assumed default of that sovereign on the credit quality of the PSE pool cannot be sufficiently diversified.

DBRS Morningstar addresses this risk in its CPCA using its PSE tool. The *Modelling Assumptions for Portfolios of Public Sector Exposures* methodology provides further detail on this tool.

For CBs where 20% or more of the CP is composed of public-sector assets in the same sovereign where the RE is located (host sovereign), DBRS Morningstar considers the additional risks separately. The PSE in the host sovereign can increase the likelihood that the creditworthiness of both the debtor of fi recourse (the RE) and the CP will deteriorate concurrently, exposing the CB holders to higher risk. DBRS Morningstar considers that, when the host sovereign concentration is material, it can very rarely (if at all) be expected that the CB be rated over three notches above the host sovereign rating. However, it is possible that a higher rating could be achieved by disregarding the as-sets concentrated in the host sovereign. Furthermore, when the RE is an entity whose primary business focuses solely on the region where the assets are located, DBRS Morningstar reflects any additional risks and constraints to the rating.

## **SOVEREIGN STRESS**

A sovereign downgrade may impact factors considered in a CB rating, resulting in ratings changes to the CBs:

**1. CBAP:** The LTSDR and the COR (where applicable) consider the operating environment of a banking organisation (including regulatory and supervisory regime). Accordingly, a sovereign downgrade may impact the CBAP by creating a more challenging operational environment. This can lead to downgrades of CB ratings. Moreover, the notching approach of the COR contemplates that the COR can surpass the sovereign rating by a maximum of two notches in certain cases, provided there is no systemic banking crisis, as that would likely put downward pressure on the CBAP.

**2. LSF Assessment:** The LSF assessment expresses the likelihood of a smooth transition from the issuer or RE to the CP as a source of payments on the CB. A downgrade of the domicile sovereign may affect the LSF assessment associated with a given programme and therefore cause its downgrade. In the case of a CP composed of sovereign exposures, a downgrade of the domicile sovereign may affect the LSF assessment as DBRS Morningstar assesses less favourably exposures to lower-rated sovereigns. In certain circumstances, a downgrade of the host sovereign may also affect the LSF assessment.

**3. CP Credit Assessment:** A downgrade of the domicile sovereign may cause a deterioration of the CP assets. It can also trigger greater volatility in the financial markets and result in DBRS Morningstar factoring in higher levels of market value spreads into its cash flow analysis. This would in turn increase the pass-OC level for a given rating scenario. DBRS Morningstar may then downgrade the CB even if the level of OC to which DBRS Morningstar can give credit is unchanged, but it is now lower than the new pass-OC level.

**4. CP Support:** A downgrade of the domicile sovereign may affect the notching granted above the LSF-L.

**5. Sovereign Rating:** For Public Sector CBs, when 20% or more of the CP consists of PSE concentrated in the host sovereign, a downgrade of the host sovereign may cause the CBs' rating to be downgraded.

#### **DBRS MORNINGSTAR LSF MATRICES**

DBRS Morningstar considers the PD of a CB to derive from the joint probability that both the RE and CP become unable to fulfil the transaction's payment obligations, assuming that there is usually a correlation between the two instances. Separately, DBRS Morningstar assumes a non-zero probability that the CB will not receive the full benefit of the cash flows from the CP rapidly enough to avert a CB default. Five LSF categories are assigned so that the probability of not receiving the CP's full benefit increases as the LSF weakens.

Accordingly, DBRS Morningstar has generated five LSF matrices for each of the LSF grades with a fixed assumption of a CB with a five-year weighted-average life (WAL). The output of the DBRS Morningstar matrixes (or the LSF-L) points to the rating level for each one of the CBAP and CP credit assessment levels for a given LSF assessment. The LSF-L does not reflect the prospect for high recoveries for the CP following a potential default of the CB, which may provide up to an additional two notches uplift to the LSF-L.

#### **COUNTERPARTY RISK**

DBRS Morningstar generally applies the same counterparty criteria to European CBs as stated under *Legal Criteria for European Structured Finance Transactions* (counterparty criteria) and *Derivative Criteria for European Structured Finance Transactions* (derivative criteria). Noticeable differences that reflect the nature of the product are detailed in this methodology.

#### **COVERED BONDS SURVEILLANCE**

Once DBRS Morningstar assigns a CB rating, the surveillance process begins and is continued for as long as the rating is maintained, via a periodic review and more frequent monitoring.

In cases where ongoing information is no longer deemed reliable or of sufficient quality, and DBRS Morningstar is unable to properly monitor the transaction, DBRS Morningstar may discontinue the existing rating(s).

#### **ESG FACTORS**

DBRS Morningstar has developed an ESG assessment framework that encompasses up to 17 ESG risk factors that DBRS Morningstar currently considers in its rating analysis. These factors are grouped into three categories—Environmental, Social, and Governance—representing the key considerations that DBRS Morningstar commonly analyses within its ESG assessment framework. All ESG risk factors are generally consistent with those that global ESG stakeholders use to assess ESG factors for sustainable investing and financial risks. DBRS Morningstar considers how ESG risks affect the issuer and transaction-specific ratings during the life of the transaction/rating. As with all of DBRS Morningstar's credit analysis, evaluation of the factors' impact is forward looking.

In general, DBRS Morningstar considers eight of the 17 factors in the structured finance and covered bonds' rating analysis. In addition to the eight risk factors that typically apply to covered bond transactions, investors may be exposed to other ESG risk factors based on whether the reference obligor or guarantor or counterparty is a government, corporate, or financial institutions entity.

ESG considerations typically arise from either the collateral backing the covered bonds, from transactions' counterparties, or from the covered bond structure.

ENVIRONMENTAL	SOCIAL	GOVERNANCE
Emissions, Effluents, and Waste (G/F/C/S)	Social Impact of Products and Services (F/C/S)	Bribery, Corruption, and Political Risks (G/F/C)
Carbon and Greenhouse Gas (GHG) Costs (G/F/C/S)*	Human Capital and Human Rights (G/F/C/S)	Business Ethics (F/C)
Resource and Energy Management (G/C)	Product Governance (F/C/S)	Corporate/Transaction Governance (F/C/S)
Land Impact and Biodiversity (G/C)	Data Privacy and Security (F/C/S)	Institutional Strength, Governance, and Transparency (G)**
Climate and Weather Risks (G/F/C/S)	Occupational Health and Safety (C)	Peace and Security (G)**
	Community Relations (F/C)	
	Access to Basic Services (G/F/C)	

\*Denotes applicability to rating groups:

G = Governments, F = Financial Institutions, C = Corporate Finance, S = Structured Finance

\*\*Exclusively Government risk factors.

## RELATED RESEARCH

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# DBRS MORNINGSTAR

> FIGURE 1: ADEQUATE LSF

	COVER POOL CREDIT ASSESSMENT											
	AAA	AA (high)	AA	AA (low)	A (high)	A	A (low)	BBB (high)	BBB	BBB (low)	BB (high)	BB
<b>AAA</b>	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA
<b>AA (high)</b>	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AA (high)	AA (high)	AA (high)	AA (high)	AA (high)
<b>AA</b>	AAA	AAA	AAA	AAA	AAA	AAA	AA (high)	AA	AA	AA	AA	AA
<b>AA (low)</b>	AAA	AAA	AAA	AAA	AA (high)	AA (high)	AA	AA	AA (low)	AA (low)	AA (low)	AA (low)
<b>A (high)</b>	AAA	AA (high)	AA (high)	AA (high)	AA	AA	AA	AA (low)	AA (low)	A (high)	A (high)	A (high)
<b>A</b>	AA (high)	AA (high)	AA (high)	AA	AA	AA	AA (low)	AA (low)	AA (low)	A (high)	A	A
<b>A (low)</b>	AA	AA	AA	AA (low)	AA (low)	AA (low)	A (high)	A (high)	A (high)	A	A (low)	A (low)
<b>BBB (high)</b>	AA (low)	AA (low)	A (high)	A (high)	A (high)	A	A	A (low)	A (low)	A (low)	BBB (high)	BBB (high)
<b>BBB</b>	AA (low)	A (high)	A (high)	A (high)	A	A	A	A (low)	A (low)	A (low)	BBB (high)	BBB (high)
<b>BBB (low)</b>	A (high)	A (high)	A	A	A	A	A (low)	A (low)	A (low)	A (low)	BBB (high)	BBB (high)
<b>BB (high)</b>	A (low)	A (low)	A (low)	A (low)	A (low)	BBB (high)	BBB (high)	BBB (high)	BBB	BBB	BBB (low)	BBB (low)
<b>BB (low)</b>	BBB (high)	BBB (high)	BBB (high)	BBB (high)	BBB (high)	BBB	BBB	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BB (high)
<b>B (high)</b>	BBB	BBB	BBB	BBB	BBB	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BB (high)
<b>B</b>	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (high)	BB (high)	BB (high)
<b>B (low)</b>	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (low)	BBB (high)	BB (high)	BB (high)	BB (high)	BB	BB
<b>CCC (high)</b>	BB (high)	BB (high)	BB (high)	BB (high)	BB (high)	BB (high)	BB (high)	BB (high)	BB	BB	BB (low)	BB (low)
<b>CCC</b>	BB (high)	BB (high)	BB (high)	BB (high)	BB (high)	BB (high)	BB	BB	BB	BB	BB (low)	BB (low)
<b>CCC (low)</b>	BB	BB	BB	BB	BB	BB	BB (low)	BB (low)	BB (low)	BB (low)	B (high)	B (high)

Source: DBRS Morningstar



## 4.3 FITCH RATINGS COVERED BOND RATING METHODOLOGY

By Carmen Muñoz and Hélène Heberlein, Fitch Ratings

### INTRODUCTION

This is a summary of Fitch Rating's methodology for assigning and monitoring credit ratings for covered bond obligations globally. The complete Covered Bonds Rating Criteria as well as other related criteria, is available at [www.fitchratings.com](http://www.fitchratings.com).

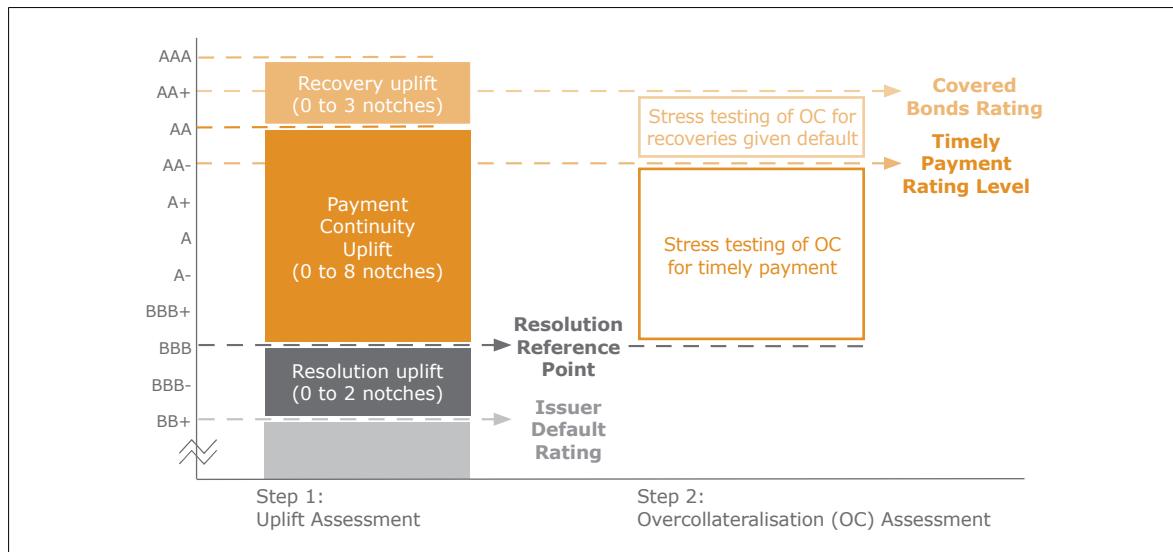
Fitch's Covered Bonds Rating Criteria focuses on the dual recourse nature of covered bonds, with recourse to a financial institution and to a pool of assets that can change over time. Our covered bond ratings address the bonds' probability of default (PD), and following their hypothetical default, recoveries from the cover pool. Covered bonds have a privileged position over an issuer's senior debt in a resolution scenario and, in the event of an issuer default, collateral may allow for ongoing covered bond payments, as well as for recoveries from the cover pool. As such, they can be rated above an issuing entity's Long-Term Issuer Default Rating (IDR), which generally represents the default risk of senior unsecured debt to third-party, non-government creditors.

The main steps to the covered bond rating consist of:

- 1. Uplift Assessment**
- 2. Overcollateralisation (OC) Assessment**

As illustrated in the next graph, Fitch's covered bond ratings can exceed the Long-Term IDR of an issuing institution by a total number of notches corresponding to the sum of the resolution uplift, the payment continuity uplift (PCU) and the recovery uplift applicable to the programme. Often, not all notches of uplift are used. This may be due to the lower difference between the Long-Term IDR and the highest rating of 'AAA' on the Fitch rating scale, or due to a rating cap, such as an applicable Country Ceiling. This creates a buffer against an issuer downgrade. In addition, the actual covered bond rating may be lower than the maximum achievable if the OC level that Fitch gives credit to in its analysis does not withstand higher stress scenarios.

> FIGURE 1: FITCH COVERED BOND RATING STEPS



Source: Fitch Ratings

Fitch does not always run models when assigning or monitoring covered bonds credit ratings. For example, if an issuer has an IDR of 'AA-', Fitch can assign a covered bond rating of 'AAA' without specific modelling if the programme's characteristics, including maintenance of minimum legal OC, support a resolution uplift of two notches and a recovery uplift of one notch. In this case, the agency will not test cash flows for timely payment nor establish the cover pool's Rating Default Rate and Rating Loss Rate.

Similarly, if there is ample OC buffer above thresholds established in our Covered Bonds Rating Criteria, we may refrain from running the asset and/or the cash flow model. This depends on further conditions, including no material change to the cover pool composition, origination practices, assets and liabilities profile, the issuer rating, the relevant sovereign rating or our applicable criteria assumptions. In these cases, previous results of Fitch's asset and/or cash flows modelling would be carried forward at future rating reviews.

## **STEP 1: UPLIFT ASSESSMENT**

### **Issuer Default Rating**

The institution's Long-Term IDR is the basis for Fitch's covered bond rating analysis, because covered bonds are a full recourse debt instrument. This means that, as long as the issuer is solvent, it will pay covered bond obligations when due pari passu with its senior liabilities, irrespective of the performance of the cover assets. This linkage between the institution's Long-Term IDR and its covered bond rating is also attributable to issuers' capacity to make decisions regarding cover pool composition, asset and liability mismatches, and maintenance of OC.

### **Resolution Uplift**

The resolution uplift of up to two notches applies to programmes from jurisdictions with a bank resolution regime, which includes a bail-in tool for senior liabilities, from which fully collateralised covered bonds or secured debt are exempt. It applies where Fitch believes payments will continue being made without recourse to the cover pool even if the issuer has defaulted on its senior debt. If relevant to our analysis, the risk of undercollateralisation at the point of resolution must be sufficiently low. Fitch analyses the applicable legislative regime and contractual documentation to assess the possible risk of undercollateralisation at the point of an issuer resolution. The IDR plus the resolution uplift determines the resolution reference point.

The degree of resolution uplift depends on the following considerations.

> FIGURE 2: LEVEL OF RESOLUTION UPLIFT

<b>Resolution uplift</b>	<b>Type of Issuers</b>
Two notches	> Institutions with an IDR not driven by institutional or state support and their subsidiaries whose IDR is equalised with the parent's. > IDR based on their participation/integration in a mutual support scheme and equalised with group IDR.
One notch	> Institutions with an IDR driven by support and their subsidiaries.
None	> Specialised mortgage or public sector lenders that form part of a broader banking group and are not operationally integrated with the parent. > Institutions without debt buffers requirement such as Minimum Requirement for Own Funds and Liabilities and for which Fitch does not expect resolution to be applied in case of a failure or default.

Source: Fitch Ratings, Fitch Solutions

### **Payment Continuity Uplift**

Fitch considers that, once recourse to the cover pool has been enforced, covered bond payments may continue to be met without any interruption, provided that there are satisfactory liquidity protection mechanisms in

place. We view liquidity as the main driver of the smooth transition from the issuer to the cover pool as the source of covered bonds interest and principal payments and, hence, normally the main determinant of the PCU, unless other risks constitute a greater threat to payment continuity.

The degree of protection against payment interruption risk on bond payments is expressed via the PCU granted by Fitch to the programme, which range from zero to eight notches. Fitch discloses the rating scenario corresponding to the expectation of timely payment on covered bonds as the "timely payment rating level".

Fitch has established the following standard maximum PCUs based on the degree of liquidity protection provided through legal requirement or contractual provisions.

> FIGURE 3: STANDARD PAYMENT CONTINUITY UPLIFT

Programme types	Effective liquidity protection for principal payments	Maximum PCU in notches
Pass-through programmes	Maturity date extends beyond the longest maturing asset in the cover pool <sup>a</sup>	Eight
Mortgage and public sector programmes predominantly exposed to developed banking markets <sup>b</sup>	At least 12 months	Six
Public sector programmes predominantly exposed to developed banking markets <sup>b</sup>	At least six months	Five
Mortgage programmes predominantly exposed to developed banking markets <sup>b</sup>	At least nine months	Four
Mortgage programmes predominantly exposed to developed banking markets <sup>b</sup>	At least six months	Three
Any programme exposed to maturity mismatches	No protection	Zero

(a) Or if an immaterial part of the cover pool matures after the last covered bonds

(b) For the purpose of the PCU, developed banking markets are defined as countries where banking plays a fundamental role in channelling funds to the domestic economy and where several non-foreign-owned lenders are active, facilitating potential portfolio transfers/sales

Source: Fitch Ratings, Fitch Solutions

In addition to principal payment protection as described above, Fitch expects some protection for timely interest payment to grant a PCU above zero notches. PCUs in the range of four to eight notches are associated with protection for interest payments, or swap payments and senior expenses as applicable, due over the next three months. For the purpose of payment interruption risk, exposure against counterparties not mitigated in accordance with Fitch's Structured Finance and Covered Bonds Counterparty Rating Criteria is assessed based on materiality for the rating and may lead to a lower PCU than would have been achievable if criteria were fully met. Payment continuity can also be negatively influenced by asset segregation and systemic or cover-pool-specific alternative management. If Fitch views that these risks could undermine a smooth transition from the issuer to the cover pool as a source of bond payments, it could grant a lower PCU than indicated above, depending on the materiality of the deficiency.

- > **Asset segregation:** Fitch analyses the strength of the asset segregation mechanism. It considers whether OC is beyond the reach of other creditors until all covered bonds have been repaid in full. Other identified risks relate to the potential claw back of cover pool assets, commingling with the issuer's other cash flows and borrower set-off rights.
- > **Systemic alternative management:** The agency studies the legal and/or contractual provisions for replacing an insolvent institution as manager of the covered bonds and servicer of the cover assets. The timing of the appointment of a substitute manager or administrator is considered, as well as the scope of their respons-

sibilities — whether exclusively focused on the interests of the covered bond holders or also encompassing other creditors, and if the alternative manager has all powers and means to take the necessary actions.

- > **Cover-pool specific alternative management:** The cover pool-specific assessment focuses on the transferability of relevant data and IT systems to an alternative manager and buyer. Fitch evaluates the quality and quantity of data provided to the agency, whether cover assets, debtors' accounts and privileged swaps can be clearly identified within the issuing bank's IT systems, whether third-party rather than custom-made IT systems are used, the degree of automation and speed of cover pool reporting, as well as recordkeeping standards on cover assets documentation. Wind-down programmes may attract a worse assessment.

### **Recovery Uplift**

Should covered bonds default, bondholders may still benefit from high recoveries from the cover pool. Fitch recognises this through an uplift of up to two notches if the covered bonds' timely payment rating level is in the investment grade range and up to three notches if it is in the sub-investment grade range.

> FIGURE 4: RECOVERY UPLIFT

<b>If rating level corresponding to expectation of timely payment is:</b>		
<b>Recovery prospects</b>	<b>Investment grade</b>	<b>Non-investment grade</b>
Outstanding	Two	Three
Superior	One	Two
Good	One	One
Average	Zero	Zero

Source: Fitch Ratings

Fitch expects fully collateralised programmes secured by standard assets such as mortgage loans and public sector exposures to be able to generate at least a good level of recoveries (above half of the principal value) and will be eligible for a one-notch recovery uplift in all rating scenarios. Such programmes can use a one-notch recovery uplift with an OC of 0%.

The recovery uplift is limited to one notch if Fitch identifies material downside risks to recovery expectations, for example, due to foreign-exchange (FX) risk. This could apply to hedged programmes where foreign-currency bonds are swapped until their maturity into the domestic currency of the cover assets. In this case, Fitch does not stress FX rates when testing cash flows for timely payment. But a devaluation of longer-dated, domestic currency asset cash flows would be detrimental to recoveries on the foreign currency-denominated bonds in a default scenario where the swap terminates.

### **STEP 2: OC ASSESSMENT**

#### **Testing Cash Flows For Timely Payment**

Fitch's Covered Bonds Cash Flow Model is used to determine the level of OC that in Fitch's view supports timely payment in a given stress scenario above the resolution reference point. It compares stressed incoming cash flows with payments due on covered bonds. It assumes that the cover pool becomes static under the care of a third-party manager at a simulated date, following the hypothetical transition from the issuer to the cover pool as the source of payments of the covered bonds. Cash flowing after this date are modelled to be trapped in an account if not used to meet covered bond interest or principal payments. Asset and liability cash flows are considered after swaps, provided that they are privileged obligations and contracted with eligible counterparties.

Two major sources of risk are assessed when testing cash flows for timely payment: the credit risk of the cover pool inferred from the assets' default probabilities and recovery expectations (credit loss); and the cost

of bridging maturity, interest rate and FX mismatches between the cover assets and the covered bonds (loss arising from assets and liabilities mismatches or ALM Loss). The OC corresponding to the timely payment rating level results from the sum of the ALM loss and credit loss in the most stressful scenario tested, considering all quarters where the switch to the cover pool is modelled.

If the programme is exposed to cash flows in foreign currencies without a hedge and the agency believes that the open exposure represents a residual risk, the agency will apply stresses published in "Fitch's Foreign-Currency Stress Assumptions for Residual Foreign-Exchange Exposures in Covered Bonds and Structured Finance – Excel File", or disclosed in programme-specific rating communication. The definition of what constitutes a residual risk and the treatment of FX exposures not viewed as residual can be found in an appendix of Fitch Covered Bonds Rating Criteria.

The components of Fitch's break-even OC corresponding to the timely payment rating level are as follows:

- > **Credit Loss:** This refers to the credit risk of cover assets inferred from default probabilities and recovery expectations. Fitch's asset analysis focuses on the performance of the cover pool over its remaining life and is affected by the nature and geographical location of the underlying assets or obligors. The credit risk of cover pools is generally analysed in line with asset-specific covered bond or relevant structured finance criteria.
- > **ALM Loss:** This component combines two main aspects: first addressing the impact of interest-rate and FX movements on the net present value (NPV) of assets and liabilities. The second addresses the effect on timely bond payments of periods of cash shortfall and periods of excess of cash. This simulates asset sales or refinancing to meet covered bonds maturities in the event of cash shortfall and calculates the cost of such sales via the application of a spread above the interest rate curve. Conversely, in the event of excess cash, it applies a negative carry margin to funds held until they are needed to pay interest or principal on covered bonds. Also, the ALM loss incorporates the effect of programme features such as pro-rata asset sale clause, pass-through redemption and amortisation test.

Fitch's Refinancing Spread Levels (RSL) for which the methodology can be found in an appendix of the Covered Bonds Rating Criteria, are applied on top of Fitch's stressed interest rate to discount cash flows of the cover assets. RSL are meant to cover mainly the liquidity cost and profit margin. Fitch applies a unified approach to determine public sector and mortgage RSL. They are based on the analysis of through-the-cycle observed spreads of sovereign bonds and, for residential mortgage pools, of covered bonds and RMBS spreads. They also take into account the assessment of key liquidity measures of sovereign bonds (such as reserve currency flexibility) and size of the covered bonds and RMBS market.

### **Recovery Given Default**

The level of recovery uplift applied in assigning covered bonds ratings is also subject to OC stress testing, but without cash flow modelling. This is because recoveries from the cover pool in the event of a covered bonds default are not tied to any particular time horizon.

Programmes where OC given credit to by Fitch in its analysis roughly offsets stressed credit loss levels implied by the agency's static model output are expected to experience outstanding recoveries. The cover pool's credit loss is stressed in a rating scenario corresponding to the level of the assigned covered bond rating ie after the application of two or three notches of recovery uplift.

### **RELATIONSHIP BETWEEN OC AND RATING**

Fitch's break-even OC for the rating is the lowest protection that supports timely payment of covered bonds in a stress scenario associated with the timely payment rating level and meets the threshold for the applied recovery uplift. It is floored at 0% and is generally rounded to the nearest 0.5%. It will be expressed in terms

of break-even asset percentage (AP) for the rating in programmes where the documentation stipulates a maximum AP. In this case, it would be capped at 100%.

The break-even OC (or AP) for a given rating is compared with the level of OC (or AP) that Fitch relies upon and that may be lower (or higher in the case of AP) than the percentage available as of the last reporting date. The agency will give credit to one the following:

- > Legal and contractual commitments, if legally binding and enforceable against the issuer;
- > Non-contractual public statements and/or covenants – such as undertakings given in the programme's investor reports including AP used in the Asset Coverage Test (ACT), the institution's annual reports or published on the investor relations section of the issuer's web site;
- > The lowest level of OC (highest AP) recorded during the preceding 12 months, provided that the issuer's Short-Term IDR is at least at 'F2' and the programme is not in wind-down. Programmes are deemed to be in wind-down when the issuers no longer focus on eligible cover assets as part of their normal business activity.

Fitch will assess the reliability and sustainability of the OC or the AP. Furthermore, we may use another OC (or AP) benchmark where OC or AP levels over the past 12 months are not considered to be consistent with their current levels or indicative of expected levels. This may be based on Fitch's projection and will be disclosed in our rating communications. For issuers with a Short-Term IDR below 'F2', or for programmes Fitch considers to be in wind-down, only the minimum level of OC required by the relevant covered bond legal framework (or maximum legal/contractual AP) will be credited in the absence of valid contractual or otherwise public statements.

#### **COVERED BONDS SURVEILLANCE**

Fitch publishes individual surveillance workbooks for covered bond programmes and multi-issuer of *cédulas hipotecarias* (MICH) transactions on a quarterly basis. They gather in one document the list of information specified by the European Central Bank (ECB) in its guidelines on the implementation of the Eurosystem monetary policy framework (ECB/2016/31).

Typically, the covered bonds files display the main analytical steps (the IDR, the resolution uplift, the PCU, recovery uplift) as well as the break-even OC or AP for the assigned covered bonds rating and the level of OC or AP relied upon by Fitch in its analysis. In addition, they contain key information on the cover pool composition and assets and liabilities mismatches, non-confidential records of counterparties and the inventory of outstanding publicly rated bonds. The MICH surveillance publication template includes the key assets and liabilities characteristics for the *cédulas hipotecarias* of each bank participating in a given transaction, as well as the key assets and liabilities characteristics of the securitisation itself.

Each surveillance file for a given covered bond programme or MICH transaction can be accessed from the issuing entity's page on [www.fitchconnect.com](http://www.fitchconnect.com), under the Covered Bonds File tab.

#### **ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) RISKS FOR COVERED BOND RATINGS**

Fitch's approach to ESG is focused on assigning ESG Relevance Scores (ESG.RS) to debt instruments including covered bonds. The ESG.RS are assigned by the same analysts that rate the bonds and so the relevance and materiality of individually identified ESG risks to the rating decision are transparently and consistently communicated. Individual E, S and G relevance scores range from '5' to '1'. A score of '5' indicates factors that have a direct impact on the rating on a standalone basis. A score of '1' indicates factors which have no credit impact or are irrelevant to the sector and the programme from a credit perspective.

## **Governance Main Risk for Covered Bonds**

For covered bonds, the assessment of asset segregation and payment continuity is of particular relevance, especially when the cover pool becomes the source of bond payments. High scores are generally driven by structural issues such as lack of liquidity protection, payment continuity risks, or OC constraints. The score assigned often differs from the issuing banks' which tend to be driven by perceived weaknesses in risk controls and conduct and governance structure (such as a lack of board independence), among other factors.

## **Social Factors Secondary Driver**

High social ESG.RS for covered bonds relate to positive influences on ratings from government-sponsored social lending schemes due to demonstrated lower loss rates, resulting in lower credit losses. This is seen in certain Dutch covered bond programmes rated by Fitch where a large proportion of the cover pool consists of Nationale Hypotheek Garantie (NHG) loans, guaranteed by the Dutch Homeownership Guarantee Fund. Also, in Panama, higher social scores relate to the inclusion of government-subsidised mortgage loans in the cover pool.

## **Low Environmental Risk**

Environmental aspects have not, to date, heavily influenced covered bond ratings. Financial incentives favouring sustainable or "green" assets over less sustainable assets remain under-developed. Despite encouraging EU developments, responses to price and tax green assets differently from others, are still at an early stage.

More information is available at [www.fitchratings.com](http://www.fitchratings.com) in Fitch's ESG section.

### **Fitch Ratings' Main Criteria Applicable to Covered Bonds**

- > Covered Bonds Rating Criteria (2 June 2021)
- > Originator-Specific Residential Mortgage Analysis Rating Criteria (15 January 2021)
- > Structured Finance and Covered Bonds Counterparty Rating Criteria (29 January 2020)
- > Structured Finance and Covered Bonds Counterparty Rating Criteria: Derivative Addendum (29 January 2020)
- > Structured Finance and Covered Bonds Interest Rate Stresses Rating Criteria (30 November 2020)
- > Structured Finance and Covered Bonds Country Risk Rating Criteria (23 September 2020)
- > Covered Bonds and CDOs of Public Entities' Asset Analysis Rating Criteria (16 October 2020)



#### **4.4 MOODY'S COVERED BOND RATING METHODOLOGY**

By Jane Soldera, Nicholas Lindstrom and Juan Pablo Soriano, Moody's Investors Service

This chapter presents a high-level summary of certain aspects of Moody's covered bond methodology and ESG methodology.<sup>1</sup> For a full explanation of the methodologies, please refer to "Moody's Approach to Rating Covered Bonds", 26 October 2020 and "General Principles for Assessing Environmental, Social and Governance Risks Methodology", 14 December 2020, both available at [www.moodys.com](http://www.moodys.com).

#### **OVERVIEW**

We determine our rating for a covered bond by applying a two-step process:

- > Moody's Expected Loss Covered Bond Model (*EL model*): Our EL model provides an initial rating based on a largely quantitative calculation of expected loss, taking into account (1) the probability (the CB anchor) that the issuer will cease making payments on the covered bonds (a *CB anchor event*) and (2) the estimated value of the cover pool should the issuer cease to make payments on the covered bonds. Note that a CB anchor event does not imply a failure to pay under the covered bonds; the cover pool will typically be managed with a view to continuing payments due on the bonds.
- > Timely Payment Indicator (*TPI*) Framework: We refine the maximum potential rating from the EL model to account for certain risks that arise when a CB anchor event occurs, in particular refinancing risk. We use our TPI framework to limit the maximum rating that covered bonds may achieve over and above the CB anchor, so that the final covered bond rating may be lower than the rating output of the EL model.

Ratings are assigned by a rating committee. The final covered bond rating is typically the lower of: (i) the rating output of the EL model and (ii) if applicable, the maximum rating permitted under the TPI framework.

However, the rating committee may assign a lower rating due to other credit-relevant features. For example, ratings are subject to sovereign risk considerations, and thus are limited by the sovereign ceiling.<sup>2</sup>

#### **MOODY'S EXPECTED LOSS (EL) MODEL**

The EL model assumes that covered bondholders have recourse, first, to the issuer and, second, to the cover pool. The model calculates the expected loss as a function of (1) the probability the issuer will cease to make payments, giving rise to a CB anchor event (also referred to as *issuer default*); and (2) after a CB anchor event, the losses (if any) incurred on the cover pool.

We determine the level of losses on the cover pool after a CB anchor event by assuming a stressed environment where, most likely, the bank that originated the cover pool assets has failed. The key factors that we assume will influence losses on the cover pool include:

- > the credit quality of the assets in the cover pool;
- > the refinancing risk that arises when funds need to be raised to refinance the cover pool following a CB anchor event; and
- > any interest rate and currency mismatches that the cover pool is exposed to following a CB anchor event.

Our EL model calculates expected loss on a month-by-month basis, from the issue of a covered bond through to its final maturity. For each monthly period, the model calculates the probability of a CB anchor event, taking into account (1) the issuer's credit strength, based on the CB anchor, and (2) the estimated loss on the collateral (if any) assuming the issuer has ceased making payments on the covered bonds. The results are then summed and discounted back to reach a net present value of the overall expected loss on the covered bond.

1 Information in this chapter is up to date as of 20 April 2021 except for the "References" on page 527, which are up to date as of 16 July 2021.

2 See "Assessing the impact of Sovereign Credit Quality on Other Ratings", 20 June 2019, available at [Moodys.com](http://Moodys.com).

## **MOODY'S EL MODEL**

The main factors that contribute to our EL model are:

1. Prior to a CB anchor event, the credit strength of the issuer; and
2. After a CB anchor event, the value of the cover pool, which is the expected value at the time of the CB anchor event adjusted for:
  - a. credit quality, that is, credit losses on the assets;
  - b. the cost of refinancing the cover pool; and losses resulting from interest rate and currency mismatches in the cover pool.

We look at each of these factors in more detail below.

Other factors we may take into account in our EL model, where relevant, include legal risks and the value of any over-collateralisation.

### **MOODY'S EL MODEL – CREDIT STRENGTH OF THE ISSUER**

*CB anchor is based on the issuer's credit strength.* Before issuer default, the issuer's credit strength will be the most important influence on the covered bond programme's performance. We assume that as long as the issuer is performing its obligations under the covered bonds there should be no loss to covered bondholders. Therefore, our CB anchor is a measure of the risk that the issuer will cease performing its covered bond obligations. We typically base the CB anchor on the issuer's *counterparty risk (CR) assessment*.<sup>3</sup> For the majority of covered bonds in Europe, the CB anchor is the CR assessment plus one notch.

*CR assessment measures probability of issuer continuing to pay on covered bonds.* When a European Economic Area (EEA) bank is under resolution<sup>4</sup>, certain of its key payment obligations are likely to be honoured even while losses are imposed on unsecured debt, senior or otherwise, or junior deposits. The CR assessment measures the probability of default on those key payment obligations, taking into account the effect of resolution and tools available under resolution procedures. For EEA covered bonds, we typically position the CB anchor at the CR assessment plus one notch, and may do so for non-EEA covered bonds if the legal / regulatory framework means authorities are particularly likely to take steps to support covered bonds. However, for the majority of covered bonds outside the EEA the CB anchor is at the same level as the CR assessment.

In exceptional cases we may use a different measure instead of the CR assessment or, for an EEA covered bond, decline to incorporate a notch of uplift to the CR assessment. For example, we may make this kind of adjustment if the covered bond does not fall under a recognised legal regime, or if the covered bond collateral is of low quality and/or insufficient.

*Other issuer benefits for covered bonds.* Our EL model also takes into account various issuer and issuer group-related benefits in addition to the issuer's CB anchor. For instance,

1. Following a CB anchor event covered bondholders may have a senior unsecured claim on the issuer that may improve recoveries.
2. The issuer will normally actively manage the cover pool to the benefit of the covered bondholders: this may include replacing defaulted assets with performing assets, or replacing high loan-to-value (LTV) loans with lower LTV loans, particularly if this is required by law. This kind of support from the issuer explains why the issuer's role is more important than that of a simple guarantor.

<sup>3</sup> For EEA banks the CR assessment is typically positioned at the issuer's adjusted baseline credit assessment (BCA) plus zero to three notches. For more details see the "Banks" methodology referenced at the end of this article. If the issuer has no CR assessment, we may use the CR assessment of another group entity provided it has a sufficiently robust obligation to provide financial support to the issuer.

<sup>4</sup> In the context of the EEA we refer here to the possibility of resolution proceedings and use of the bail-in tool under the EU Bank Resolution and Recovery Directive, adopted 15 April 2014, and its equivalent in Norway and other non-EU members of the EEA.

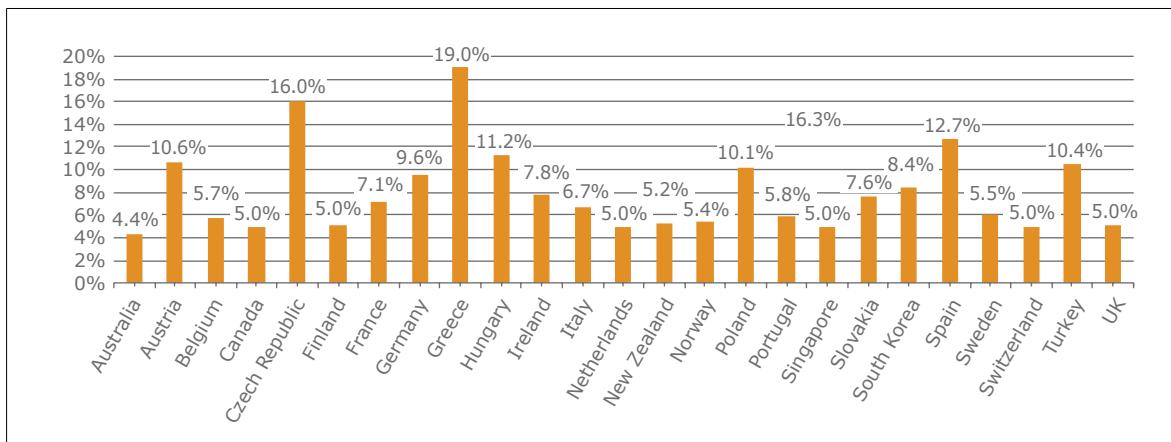
## **MOODY'S EL MODEL – VALUE OF THE COVER POOL AFTER A CB ANCHOR EVENT**

To avoid losses on covered bonds following a CB anchor event, the realisable value of the cover pool, including any over-collateralisation, will need to be sufficient to cover the principal and interest payable on the covered bonds and any other equal or senior-ranking obligations. In our analysis, there are three key factors affecting the value of the cover pool: (1) the credit quality of the collateral; (2) the cost of refinancing of the cover pool; and (3) interest rate and currency mismatches. We describe the combined risk of refinancing the cover pool and interest rate and currency mismatches as *market risk*. For certain covered bonds we may make additional adjustments; for example, legal risk considerations might include the risk that cover pool funds will be commingled with the issuer's funds at or after issuer default, or that cover pool assets might be clawed back from the cover pool into the issuer's insolvency estate.

### **Credit quality of the cover pool**

The credit quality of the cover pool is based on our estimate of borrower loan losses that will occur in a highly stressed environment after a CB anchor event. The *collateral score* measures the actual level of loss, so that the lower the collateral score, the better the credit quality of the cover pool (see Figure 1). Factors that affect the collateral score vary, but the quality of a pool of mortgage loans will normally be affected by (1) the range and distribution of LTVs; and (2) the quality of the loan underwriting and, in particular, the calculation of whether the borrower can afford the loan. The quality of a pool of public sector loans will normally be affected by the credit strength of the public-sector borrowers and the concentration levels of the loans. The credit quality of a cover pool may vary over time, as issuers typically have discretion to add and remove assets, but we monitor this by re-calculating the collateral score for most programmes on a quarterly basis.

> FIGURE 1: SIMPLE AVERAGE COLLATERAL SCORE BY COUNTRY: MORTGAGE-BACKED COVERED BONDS



Source: Moody's, data as of Q2-Q4, 2020

### **Refinancing of the cover pool**

The assets in the cover pool will generally have a natural amortisation period that is longer than the maturity of the covered bonds. This mismatch means that, following a CB anchor event, funds may need to be raised against the cover pool to enable timely payment of principal on the covered bonds. Moody's EL model assumes that when funds must be raised against the cover pool this will be done at a discount to the notional value of the cover pool. The refinancing environment for the assets at this time is likely to be stressed and we take this into account in the level of discount we build into our loss assumptions.

Our calculation of the expected losses to the cover pool from refinancing risk is based on three factors:

- (1) The refinancing margin, which is the annualised discount rate necessary to sell or refinance the cover pool assets;
- (2) The portion of the cover pool exposed to refinancing risk, which we typically assume is at least 50%; and
- (3) The average life of the refinancing risk, i.e., the average amount of time a purchaser would have to hold the cover pool assets before they either repay or re-price. We typically assume this is at least five years.

Refinancing margins are set by reference to each jurisdiction and then adjusted for individual programmes. Factors that influence the refinancing margins in our analysis vary, but key factors include (i) on a jurisdiction level, the margins observed for covered bonds in a given market; (ii) on programme and/or jurisdiction level, the mitigants to refinancing risk; and (iii) on a programme level, the collateral quality.

#### **Interest-rate and currency mismatches in the cover pool**

Following a CB anchor event, investors in covered bonds may be exposed to interest rate and currency mismatches. These mismatches result from different interest rates on cover pool assets and covered bonds, the duration of those rates, and the different currencies in which cover pools and covered bonds may be denominated.

Under Moody's EL model, the potential mismatches are estimated by taking into account:

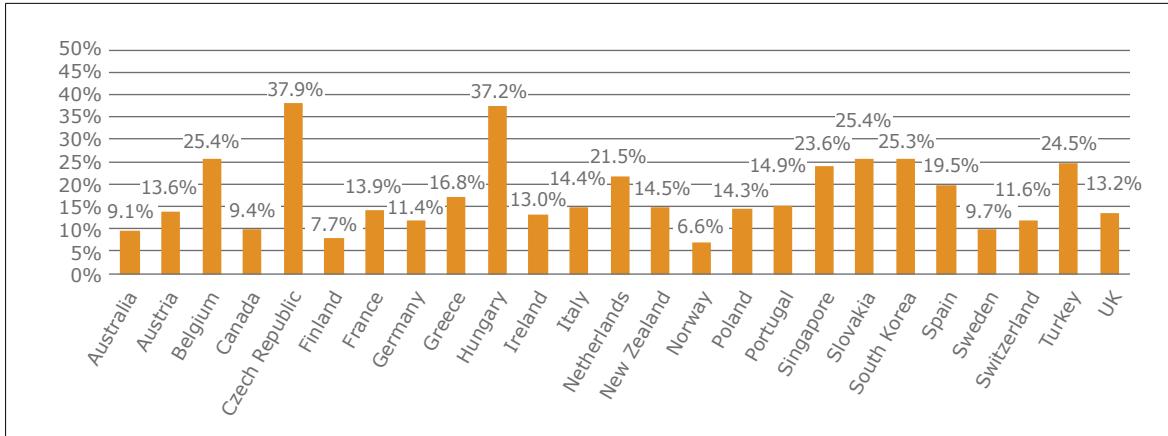
- (1) The size of the possible interest rate (or currency) movement over the relevant period, for example looking at the impact of increasing and decreasing interest rates and taking the path that leads to the harshest expected loss on the covered bonds;
- (2) The portion of the assets with interest-rate (or currency) mismatches; and
- (3) In the case of interest-rate risk, the average duration of the mismatch based on how quickly the rates or margins on the assets in the cover pool may be adjusted.

Our EL model takes into account whether derivatives hedging is in place at the point of a CB anchor event and the probability of the covered bonds subsequently becoming unhedged. After a CB anchor event the transaction may become un-hedged following a default of either the swap counterparty or the issuer. We assess the risk of counterparty default by applying the principles outlined in our cross-sector methodology for assessing swap counterparties in structured finance.<sup>5</sup> We assess the risk of issuer default under a swap by assuming that the risks of the issuer having insufficient cover pool proceeds to respectively pay the swap and the covered bonds will be equivalent (typically based on legal or contractual priorities). The risk of non-payment can therefore be estimated by the TPI (see next section). However, in no case do we currently assume that derivatives used to hedge interest rate and currency risk completely remove these risks from a covered bond.

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<sup>5</sup> "Moody's Approach to Assessing Counterparty Risks in Structured Finance", 5 June 2020, available at [Moodys.com](https://www.moodys.com).

&gt; FIGURE 2: SIMPLE AVERAGE MARKET RISK BY COUNTRY: MORTGAGE-BACKED COVERED BONDS



Source: Moody's, data as of Q2-Q4, 2020

### **MOODY'S TIMELY PAYMENT INDICATORS (TPIs): LINKAGE AND DELINKAGE**

#### **TPIs link the issuer, via the CB anchor, to the covered bond rating**

A "timely payment indicator" or "TPI" is our assessment of the likelihood of timely payment of interest and principal to covered bondholders following a CB anchor event. Following a CB anchor event, we assume the issuer can no longer make payments on the covered bonds from its general resources. Instead, we assume that the entity responsible for servicing the cover pool (which, from an operational viewpoint, may continue to be the issuer) will attempt to make payments due to bondholders using funds deriving from, or proceeds raised against, the cover pool. As an alternative, timely payments might also be facilitated by third-party support for the covered bonds. We express this likelihood of timely payment as a TPI level denoted as: Very High, High, Probable-High, Probable, Improbable and Very Improbable.

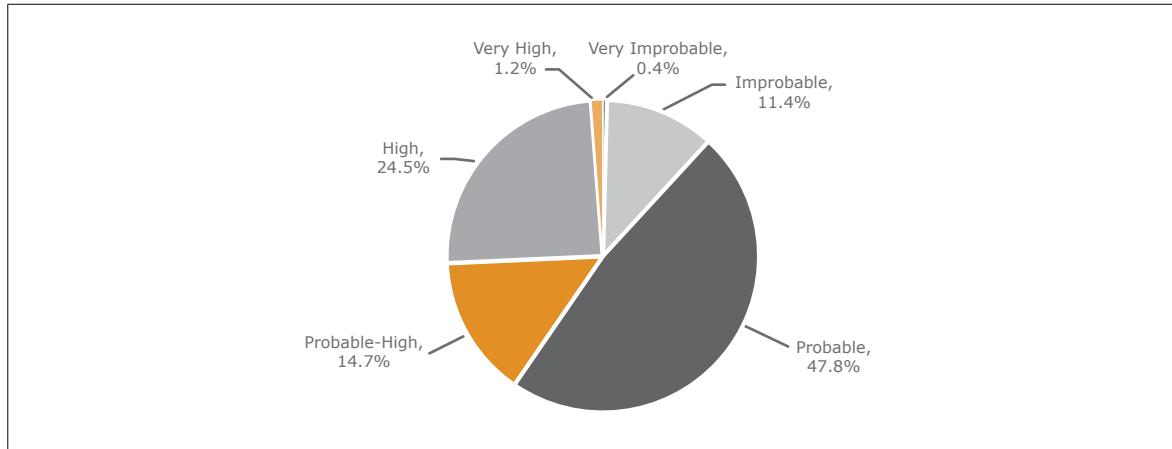
We determine TPI levels by considering a range of qualitative factors that support or threaten timely payment. In this analysis the most important consideration – and the biggest risk to timely payment for most covered bonds – is the existence of refinancing risk. Refinancing risk is highly volatile, which is why our highest ratings cannot be maintained on covered bonds that are materially subject to refinancing risk, unless the bonds are also backed by a highly-rated issuer. A key TPI factor relevant to refinancing risk is whether other market participants or the financial authorities might act to avoid default on the covered bonds despite the issuer failing. Important considerations in this regard are the strength of the covered bond market and regulatory framework. Taking these and other factors into account, we determine a benchmark TPI for the jurisdiction and asset class, e.g. mortgage or public sector. We may then adjust TPIs for individual programmes to reflect particular aspects of that programme.

At the programme level, factors that we consider relevant to TPI levels include (1) arrangements for continuity of servicing and cash management; (2) the risk that any relevant swaps might be terminated; (3) the risk of acceleration of the covered bonds; (4) overcollateralisation levels; (5) possibility of principal maturity extensions; and (6) the issuer's ability to change the programme (in particular to add new assets that may be more/less liquid and enter into new hedging arrangements).

We publish TPI tables setting out the expected maximum covered bond ratings for different combinations of CB anchor and TPI level (see our covered bond rating methodology report referred to at the end of this chapter). We will normally determine a rating ceiling based on the TPI table, but we may make further adjustments, particularly

if the issuer's CR assessment is low- or below-investment grade. For CR assessments below investment grade, the TPI table provides a range of potential outcomes, with the final rating depending on case by case analysis.

> FIGURE 3: TPI DISTRIBUTION ACROSS COVERED BOND PROGRAMMES



Source: Moody's

### **TPI de-linkage**

Covered bonds can be TPI "de-linked". TPI de-linkage implies a reduced level of credit linkage between the issuer and the covered bonds that is broadly analogous to the credit linkage between a securitisation originator and senior securitisation notes. For us to consider a covered bond as TPI de-linked we would consider whether refinancing risk and the risks around the role of the issuer have been reduced sufficiently to minimise the impact of those risks on the covered bonds. For example, we have observed issuers materially reducing refinancing risk by replacing a hard or soft bullet principal repayment on their covered bonds with a pass-through or conditional pass-through repayment from the cover pool cash-flows.

### **INTEGRATION OF ESG RISKS**

We seek to incorporate all material credit considerations into our covered bond ratings and this includes environmental, social and governance (ESG) risks. We endeavor to take the most forward-looking perspective that visibility into ESG risks and related mitigants permits. The materiality, time horizon and credit impact of ESG risks may vary widely, and issuer and cover pool credit strengths or vulnerabilities can mitigate or exacerbate ESG credit impacts.

A number of ESG considerations identified in our ESG methodology categories<sup>6</sup> could impact covered bonds. Key environmental risks that may be relevant include carbon transition risks and physical climate risks - such as flooding or heat stress - that could affect mortgage collateral. Key social risks could include the impact of demographic changes on demand for housing and the issuer's handling of data security and responsible selling of financial products. Governance risks would likely focus on the strength of transaction control mechanisms and parties' adherence to contractual or regulatory requirements.

Our ESG methodology describes two frameworks we are currently implementing for analyzing ESG exposures and credit impacts respectively:

6 For details on ESG categories see our ESG rating methodology report referred to at the end of this chapter.

- > *Issuer profile scores* (IPS) indicate the respective E, S or G exposures of an issuer or transaction. IPS function as inputs to our ratings. IPS are expressed on a numeric scale from E-1/S-1/G-1 (Positive) to E-5/S-5/G-5 (Very Highly Negative). The scale is asymmetric – only a score of 1 is positive - reflecting our view that ESG issues are more typically a source of credit risk than strength.
- > The *credit impact score* (CIS) explains the impact of ESG considerations on a given issuer or transaction rating and is expressed on a scale of 1 to 5, indicating materiality. The CIS is based on our qualitative assessment of the impact of ESG considerations in the context of the other credit drivers that are material to the rating, and is an output of the rating process. For example, a score of CIS-2 would indicate that ESG attributes have an overall neutral-to-low (i.e. non-material) impact on the current rating.

**References (all available at [www.moodys.com](http://www.moodys.com)):**

- > Rating Methodology – Moody's Approach to Rating Covered Bonds; 26 October 2020
- > General Principles for Assessing Environmental, Social and Governance Risks Methodology; 28 June 2021
- > Rating Methodology – Banks Methodology; 9 July 2021
- > Covered bonds – Sector update, published quarterly
- > Country Ceilings Methodology; 7 December 2020
- > European Covered Bond Legal Frameworks: Moody's Legal Checklist; 9 December 2005

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# S&P GLOBAL RATINGS

## **4.5 S&P GLOBAL RATINGS COVERED BOND RATING METHODOLOGY**

By Barbara Florian and Antonio Farina, S&P Global Ratings

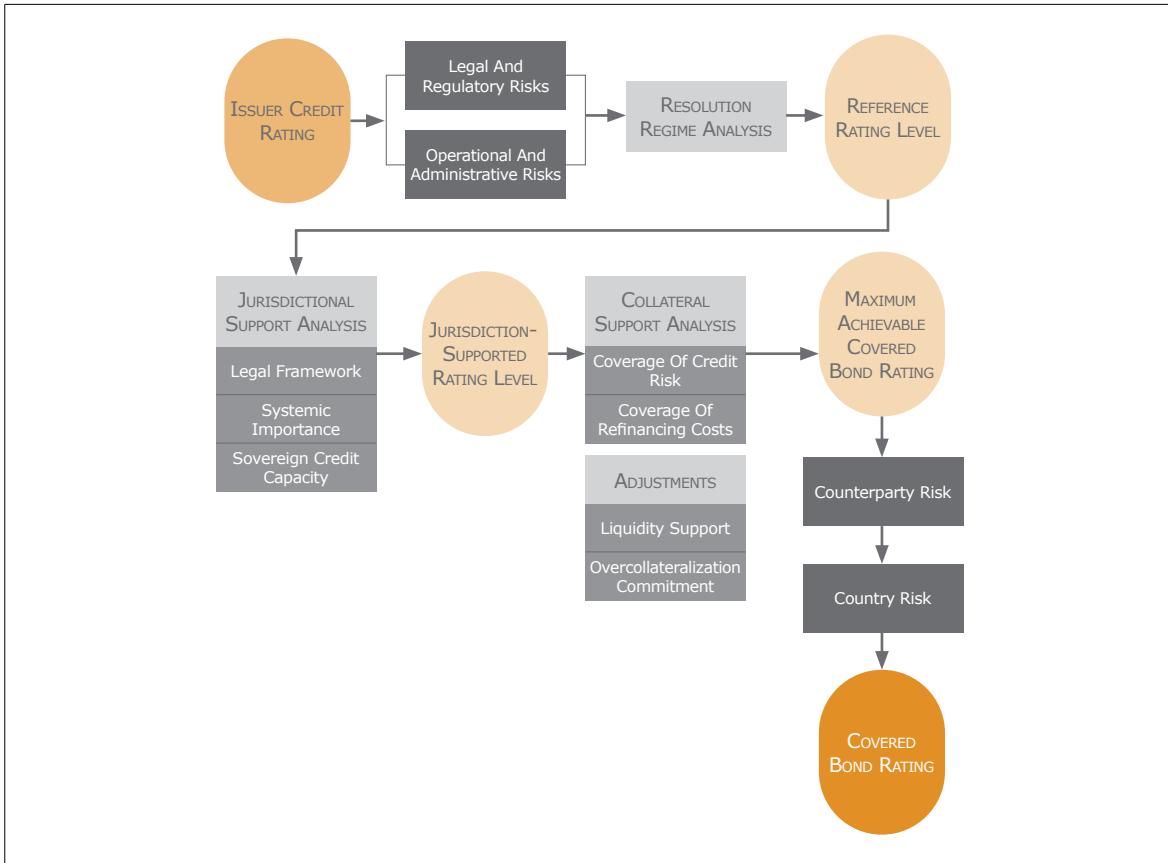
S&P Global Ratings' covered bonds rating approach is explained in the criteria "Covered Bonds Criteria," published on 9 December 2014, and "Covered Bond Ratings Framework: Methodology and Assumptions," published on 30 June 2015. These articles are available on RatingsDirect on the S&P Capital IQ platform and at [www.spratings.com](http://www.spratings.com). While this paper summarises certain covered bond criteria and rating methodologies, these articles remain S&P Global Ratings' definitive treatment of the subject.

S&P Global Ratings organises the analytical process for rating covered bonds into four stages (see Figure 1):

1. Performing an initial analysis of legal and regulatory risks and operational and administrative risks specific to the issuing bank (issuer) which contribute to our assessment of whether the covered bond programme is sufficiently "distanced" from the credit risk of the issuer so as to permit the ratings on the programme (and on the covered bonds) to be higher than the issuer's own credit rating (ICR).
2. Assessing the starting point for the analysis of the potential uplift above the ICR, based on the relevant resolution regime.
3. Determining the potential bond rating solely based on cover pool-specific factors and jurisdictional support.
4. Combining the results of the above and incorporating any additional factors, such as counterparty risk and country risk, to assign the final covered bond rating.

The outcome of S&P Global Ratings rating analysis is a rating on the covered bond programme and the bonds issued under the programme. The quarterly publication "Global Covered Bond Insights" gives an overview on the key rating factors, including credit and cash-flow indicators of the programmes that S&P Global Ratings rates (see [www.spratings.com](http://www.spratings.com)).

> FIGURE 1: COVERED BOND RATINGS FRAMEWORK



Source: S&P Global Ratings

### **COVERED BOND ISSUER – SPECIFIC FACTORS**

We conduct our initial analysis of covered bond ratings with the primary aim of determining whether the covered bond rating may exceed the ICR. Due to the dual-recourse nature of covered bonds, the covered bond rating is typically no lower than the relevant rating on the covered bond issuer. A bank's resolution counterparty rating (RCR), where we have assigned one, reflects its creditworthiness in reference to the timely fulfillment of the terms of certain financial obligations that may be protected from default within an applicable bail-in resolution process. For that reason, if we assess that covered bonds would be protected in such a process, the covered bond rating can also not be lower than the RCR on the issuing bank (if we have assigned one).

#### **Legal and regulatory risks**

The assessment of legal and regulatory risks focuses primarily on the degree to which a covered bond programme isolates the cover pool assets from the bankruptcy or insolvency risk of the issuer. If the asset isolation analysis concludes that covered bonds are not likely to be affected by the bankruptcy or insolvency of the issuer, then we may assign a rating to the covered bonds that is higher than the rating on the issuer.

S&P Global Ratings typically reviews the following legal aspects when assigning a rating to a covered bond programme:

- > The nature of the segregation of the assets and cash flows if the issuer becomes insolvent;
- > Whether there is any acceleration of payments to noteholders if the issuer becomes insolvent – whether payments of interest and principal will continue in accordance with the original terms of the covered bonds;
- > Whether there is any payment moratorium or forced restructuring of the programme or the covered bonds if the issuer becomes insolvent; Whether there are any limits to overcollateralisation levels, i.e., if a programme may overcollateralise its covered bonds above the minimum limit defined under the legislation or the programme documents, and whether this additional overcollateralisation is available to the covered bondholders, notwithstanding any issuer insolvency;
- > The treatment of any hedging agreements if the issuer becomes insolvent;
- > Whether the programme can access funding if the issuer becomes insolvent; and
- > The management of the cover pool both before and after the issuer becomes insolvent.

## **Operational and administrative risks**

The analysis of operational and administrative risks focuses on individual transaction parties to assess whether they are capable of managing a covered bond programme while bonds remain outstanding.

The primary transaction party in a covered bond programme is the issuer which is why we perform a risk analysis on its origination, underwriting, and servicing operations.

## **RESOLUTION REGIME ANALYSIS**

Our criteria recognise that effective resolution regimes that exempt covered bonds from bail-in like the EU's Bank Recovery and Resolution Directive (BRRD) can increase the likelihood that an issuer can continue to service its covered bonds despite its own insolvency and defaulting on its senior unsecured obligations. Should an issuer become insolvent and thereupon be subject to a resolution regime that excludes covered bonds from the issuer's insolvency proceedings, our assessment of the likelihood that the issuer would still service the programme's covered bonds without receiving support from the jurisdiction or reverting to a sale of programme assets determines the reference rating level (RRL).

In countries subject to effective resolution regimes, depending on the systemic importance of the covered bond programmes to that country, our criteria provide that we may add up to two notches above the ICR. This RRL reflects our view of the increased likelihood that the issuer will service its covered bonds even if insolvent. For countries without an effective resolution regime that exempts covered bonds from bail-in, our criteria specify that we set the RRL at a level equal to the issuer's ICR.

## **JURISDICTIONAL SUPPORT ANALYSIS**

If the issuer becomes insolvent, fails to return to being a going concern following resolution proceedings, and is unable or unwilling to service the programme, the programme administrator would turn to sources other than the issuer to meet payments due and mitigate the refinancing risk. In our opinion, jurisdictional support would likely be forthcoming in countries with a robust covered bond statutory and regulatory framework and where covered bonds play a systemically important role in government policy.

The criteria reference the support of a "jurisdiction" rather than a "government." That is because we believe support may come through direct government intervention such as from a central bank; indirect intervention such as a government's use of private-sector mechanisms to provide support; or through trustees, administrators, or other parties acting to protect covered bonds according to specific laws or other requirements.

Under S&P Global Ratings criteria, we consider the likelihood for the provision of governmental support when the cost of a failed covered bond programme to an economy and financial system would be considered greater than the cost of providing support. To assess this, we analyse: 1. the strength of the legal framework, 2. the

systemic importance of the covered bonds in the country, and 3. the credit capacity of the sovereign to support the covered bonds (see Figure 2). Based on these specific factors, the criteria establish a four-point classification of jurisdictional support of “very strong,” “strong,” “moderate,” and “weak”. Depending on our assessment, the criteria provide for a potential rating uplift of up to three notches above the covered bond’s RRL. This rating uplift reflects the strength of jurisdictional support that we believe might be forthcoming.

This jurisdictional-supported rating level (JRL) is our assessment of the creditworthiness of a covered bond programme once we have taken into consideration jurisdictional support for the programme, but before giving benefit to the programme administrator’s ability to access other refinancing sources.

> FIGURE 2: ASSESSING JURISDICTIONAL SUPPORT

Assessments	Factors			Jurisdictional support uplift
	Legal framework	Systemic importance	Sovereign credit capacity	
Very Strong	Robust legal framework that establishes a minimum level of overcollateralisation, and sets out a dedicated public supervision and eligibility criteria for high-quality cover pool assets. The framework rests solely on the specific covered bond legislation.	Covered bonds play a material role as a funding source for the financial system, with material economic impact.	Sovereign has sufficient financial resources to support covered bonds, not subject to third-party conditions, and its foreign currency rating is ‘BBB-’ or above.	Very strong: up to three notches of uplift above the RRL
Strong	Robust legal framework that establishes a minimum level of overcollateralisation and provides eligibility criteria that allow only high-quality assets in the cover pool.	Covered bonds play an important role as a funding source for the financial system, with important economic impact.	Sovereign has sufficient financial resources to support covered bonds (subject to third-party conditions) and its foreign currency rating is ‘BBB-’ or above.	Strong: up to two notches of uplift above the RRL
Moderate	Same as for strong.	Covered bonds play a modest role as a funding source for the financial system, with modest economic impact.	Sovereign has sufficient financial resources to support covered bonds (subject or not to third-party conditions) and its foreign currency rating is ‘BB-’ or above.	Moderate: up to one notch of uplift above the RRL
Weak	Meets minimum legal provisions but does not meet all of the characteristics of a moderate legal framework.	Does not meet the characteristics of at least moderate support.	Does not meet the characteristics of at least moderate support.	Weak: no uplift above the RRL

Source: S&P Global Ratings

### COLLATERAL SUPPORT ANALYSIS

We then consider to what extent overcollateralisation enhances the creditworthiness of a covered bond issuance by allowing the programme cover pool to raise funds from a broader range of investors and so address its refinancing needs. This overcollateralisation may cover the credit risk only, that is the expected losses incurred by the cover pool in a stressed scenario such as where defaults on underlying assets in the cover pool exceed assumed amounts, or such credit risk plus the refinancing costs, that is, the additional collateral required to raise funds against its assets to repay maturing covered bonds (due to the mismatch between assets and liabilities). We refer to this as “collateral-based uplift”.

# S&P GLOBAL RATINGS

Our analysis starts with the calculation under our criteria of the credit enhancement for each notch of collateral-based uplift to meet a specific rating level for the programme. This is a function of the maximum number of notches of uplift for collateral, i.e., the maximum collateral-based uplift, and the “target credit enhancement” (TCE), which is the level of overcollateralisation that is commensurate with this maximum collateral-based uplift (see Figure 3).

We then compare the required credit enhancement with the available credit enhancement to calculate the “potential collateral-based uplift”. We adjust this uplift for liquidity risk and uncommitted overcollateralisation to arrive at the maximum achievable covered bond rating.

The “maximum collateral-based uplift” for a given covered bond programme depends on our view about the presence of active secondary markets for the assets in the cover pool. In particular, we may allow up to four notches of collateral-based uplift above the JRL for overcollateralisation covering credit risk and refinancing costs where we believe active secondary markets exist to enable the covered bond to raise funds against its assets. Alternatively, we may allow up to two notches of collateral-based uplift above the covered bond’s JRL for overcollateralisation to cover credit risk only, in jurisdictions that we believe do not have a sufficiently active secondary market to enable the covered bond to raise funds against its assets.

Figure 3 below shows the credit enhancement necessary to achieve each additional notch of uplift above the RRL, before adjusting for liquidity risk and uncommitted overcollateralisation.

> FIGURE 3: CREDIT ENHANCEMENT FOR UPLIFT ABOVE THE RRL

Assigned jurisdictional uplift	Notches of uplift above the issuer's RRL						
	1	2	3	4	5	6	7
No jurisdictional uplift	Credit risk at RRL plus 1 rating category	Credit risk at RRL plus 2 rating categories	Credit risk at 'AAA' and 75% of the refinancing costs	Credit risk at 'AAA' and 100% of the refinancing costs	N/A		
1 notch of jurisdictional uplift	Legal minimum	Credit risk at RRL plus 2 rating categories	Credit risk at 'AAA' and 50% of the refinancing costs	Credit risk at 'AAA' and 75% of the refinancing costs	Credit risk at 'AAA' and 100% of the refinancing costs	N/A	
2 notches of jurisdictional uplift	Legal minimum	Legal minimum	Credit risk at 'AAA' and 25% of the refinancing costs	Credit risk at 'AAA' and 50% of the refinancing costs	Credit risk at 'AAA' and 75% of the refinancing costs	Credit risk at 'AAA' and 100% of the refinancing costs	N/A
3 notches of jurisdictional uplift	Legal minimum	Legal minimum	Legal minimum	Credit risk at 'AAA' and 25% of the refinancing costs	Credit risk at 'AAA' and 50% of the refinancing costs	Credit risk at 'AAA' and 75% of the refinancing costs	Credit risk at 'AAA' and 100% of the refinancing costs
Color coding	Notches of uplift allocated on the basis of regulatory minimum overcollateralization, or, in order to achieve a 'AAA' rating on the covered bond, the higher of regulatory minimum and credit risk at a 'AAA' level of stress				Notches of uplift allocated on the basis of coverage of credit risk only	Notches of uplift allocated on the basis of coverage of 'AAA' credit risk and refinancing costs	

Note: This applies to programmes with no adjustments for liquidity or uncommitted overcollateralisation and assuming that a secondary market for the cover pool assets exists to cover refinancing costs. N/A—Not applicable.

Source: S&P Global Ratings

### **Credit risk analysis**

S&P Global Ratings analyses the underlying cover pools to form a view on the expected stressed asset performance using jurisdiction- and asset-specific assumptions. These cover pool assets typically contain residential mortgage loans, public sector bonds and loans, or some other form of high credit-quality collateral. The credit analysis also incorporates issuer-specific aspects, such as the impact of its underwriting policies or its collateral management.

### **Refinancing risk analysis**

S&P Global Ratings models refinancing risk by applying an additional asset dependent “spread shock” when calculating a stressed net-present value of the cash flows of the assets to be sold. In its calculation of the target credit enhancement, we also incorporate asset default stresses (including any amounts for counterparty risks that are not structurally mitigated) and any interest and currency stresses that are not appropriately hedged.

After comparing the required credit enhancement with the available credit enhancement to calculate the “potential collateral-based uplift”, we adjust this uplift for liquidity risk and uncommitted overcollateralisation to arrive at the maximum achievable covered bond rating.

We reduce the collateral-based uplift by one notch if the programme does not benefit from at least six months of liquidity. This adjustment reflects our view that accessing the market to raise funds against the assets may take time, during which the bonds may be exposed to payment disruption.

S&P Global Ratings considers the issuer’s commitment on overcollateralisation levels, reducing the potential collateral-based uplift when we believe there is a risk that the overcollateralisation level, on which we base our analysis, may decrease over time.

### **EXTERNAL FACTORS**

Finally, in addition to the analysis of the risks outlined above, S&P Global Ratings reviews any counterparty or country risk exposures. These risks might constrain the achievable covered bond rating even if sufficient overcollateralisation to cover other risks exists. Therefore, we analyse whether these risks would limit the maximum achievable covered bond rating as determined, based on the previous steps of the analysis.

### **Counterparty risks**

If a programme benefits from interest rate or currency hedges to mitigate interest rate or currency mismatches, S&P Global Ratings reviews the underlying agreements to assess whether they conform with its counterparty criteria. Deviations can result in either incorporating the unhedged risks into the sizing of the target credit enhancement or capping the maximum achievable covered bond rating.

In its analysis, S&P Global Ratings also assesses how other counterparties that provide support to the transaction could affect the rating. This also includes whether account bank risk is adequately mitigated or whether, if the issuer becomes insolvent, cash flows could become commingled and ultimately lost. The loss of cash flows, in our view, must also be seen as an asset default related risk. If not mitigated in accordance with our counterparty criteria, we typically incorporate any such risk in our analysis of the cover pool’s payment structure and cash flow mechanics, alternatively, the covered bond rating will be further constrained.

### **Country risks**

We also analyse the underlying assets’ and transaction’s sensitivity to sovereign risk and the asset portfolio’s diversification by jurisdiction. For covered bonds exposed to refinancing risk, we assign up to five notches of uplift above the sovereign rating.

# S&P GLOBAL RATINGS

We determine the maximum rating differential between sovereign and covered bond ratings based on the sovereign rating level and the covered bond programme's country-risk exposure. This assessment caps any potential further uplift typically available under our criteria for rating covered bonds.

## **DELINKING COVERED BOND RATINGS**

A covered bond rating is delinked from the RRL of the issuing bank when the programme structurally has no mismatch between assets and liabilities and the covered bond's overcollateralisation is legally or contractually committed. In this case, we determine the rating according to whether the available credit enhancement is sufficient to pass our stress scenarios. In other words, we do not cap it as a function of the issuer's RRL or a predetermined level of rating uplift.

## **The assignment of outlooks**

Under its criteria for rating covered bonds, S&P Global Ratings assigns an outlook to all covered bond ratings that are linked to the issuer's creditworthiness. These outlooks provide a view of a programme's potential for a rating change and its direction over the intermediate term. The covered bond outlooks take into account S&P Global Ratings views on the outlook on the issuer, the level of ratings uplift achieved, as well as potential rating changes due to the performance of the collateral.

## **ESG CREDIT FACTORS**

Environmental, social, and governance (ESG) credit factors and opportunities can affect an entity's capacity to meet its financial commitments in many ways. S&P Global Ratings incorporates these factors into its ratings methodology and analytics, which enables analysts to factor in near-, medium-, and long-term impacts--both qualitative and quantitative--during multiple steps in the credit analysis (see "ESG Industry Report Card: Covered Bonds"). Strong ESG credentials do not necessarily indicate strong creditworthiness.

We define ESG credit factors as ESG risks, or opportunities, that influence an obligor's capacity and willingness to meet its financial commitments. ESG credit factors can influence ratings, rating outlooks, and credit enhancement required for the assigned rating. This influence could be reflected, for example, through reduced ability of the underlying borrowers to repay the cover pool receivables, the value of any collateral, disruptions in servicing or transaction cash flows, financial exposures to transaction counterparties, or increased legal and regulatory risks. In our published rating rationales, we aim to provide more insight and transparency of any ESG credit factors that are material to our credit ratings. For instance, if an ESG credit factor is a primary driver of a rating change, this will be explicitly disclosed in our rationale.

Environmental and social credit factors may affect the quality of the assets in the cover pool and the results of our collateral analysis. If, in our view, an environmental or a social credit factor presents a material risk to the repayment of the rated securities, it could impact the credit enhancement required to achieve a given rating, or potentially constrain the maximum potential rating. However, apart from ESG credit factors that affect the rating on the issuing bank, we would typically not identify any separate environmental or social credit factors for the covered bonds if we are not assigning any collateral-based uplift, as our analysis would be based on other factors such as the issuing bank's credit quality and the analysis of the resolution regime or jurisdictional support. To the extent ESG credit factors affect the rating on the issuing bank, this would be considered separately.

Governance factors, on the other hand, may affect the uplift that we assign to a program above the ICR. A governance credit factor would typically affect either the ratings, the rating outlook, or the number of unused notches. Unused notches are the number of notches the ICR can be lowered by, without resulting in a down-grade of the covered bonds, all else being equal.

### **S&P Global Ratings' Covered Bonds Criteria**

- > S&P Global Ratings Definitions, Jan. 5, 2021
- > Counterparty Risk Framework: Methodology and Assumptions, March 8, 2019
- > Incorporating Sovereign Risk in Rating Structured Finance Securities: Methodology and Assumptions, Jan. 30, 2019
- > Global Methodology and Assumptions: Assessing Pools of Residential Loans, Jan. 25, 2019
- > Structured Finance: Asset Isolation and Special-Purpose Entity Methodology, March 29, 2017
- > Covered Bond Ratings Framework: Methodology and Assumptions, June 30, 2015
- > Methodology and Assumptions: Analyzing European Commercial Real Estate Collateral in European Covered Bonds, March 31, 2015
- > Covered Bonds Criteria, Dec. 9, 2014
- > Methodology and Assumptions for Assessing Portfolios of International Public Sector and Other Debt Obligations Backing Covered Bonds and Structured Finance Securities, Dec. 9, 2014

# SCOPE RATINGS

## 4.6 SCOPE RATINGS COVERED BOND RATING METHODOLOGY

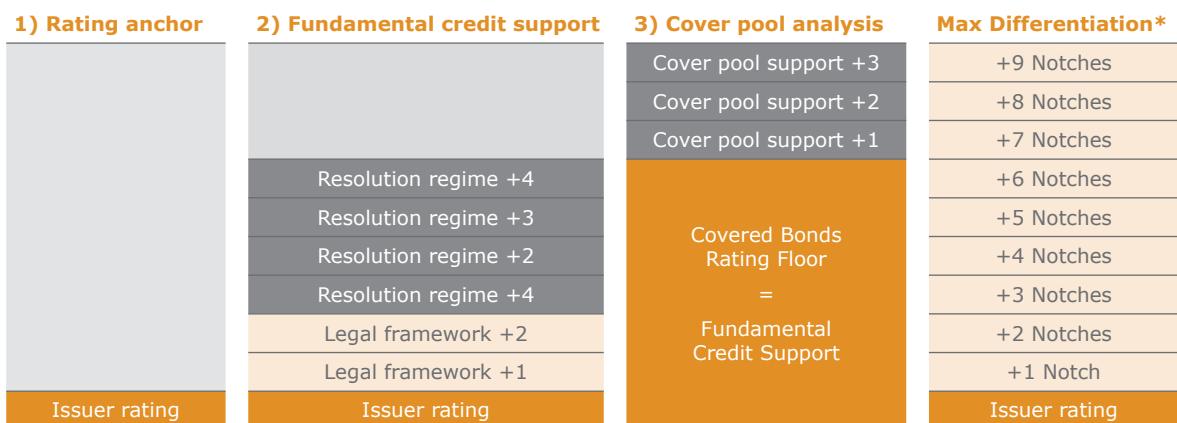
By Karlo Fuchs, Mathias Pleißner and Reber Acar, Scope Ratings

### SUMMARY

Our covered bond rating methodology<sup>1</sup> reflects the strong prudential metrics and enhanced regulatory and supervisory framework for banks. This renders that a scenario in which a covered bond relies solely on a cover pool for repayments has become extremely remote. Our expected loss based ratings reflect:

- 1) The importance of the issuer rating as the fundamental anchor for the covered bond analysis.
- 2) The fundamental credit support provided by the applicable legal and bank resolution frameworks, which can further elevate the covered bond rating. The strength of fundamental credit factors provides a minimum credit uplift and establishes the anchor for the additional support provided by the cover pool.
- 3) Cover pool credit support reflecting the availability of a second recourse when the issuer becomes insolvent (after resolution). The maximum uplift also reflects the interplay of complexity and transparency.

> FIGURE 1: BUILDING BLOCKS OF SCOPE'S COVERED BOND METHODOLOGY



\*except for conditional pass-through programmes and potentially constrained by the Cover pool complexity (CPC) score

Source: Scope Ratings

The **anchor point** to our covered bond rating, our bank rating, represents a credit opinion on a bank's ability to meet its contractual financial commitments and to what extent credit fundamentals and other factors assessed through the rating process influence the probability that regulatory action would lead to default-like events.

The **fundamental credit support** reflects that covered bonds receive preferential treatment in a resolution scenario, are likely to remain a going concern funding instrument and that a sole recourse to a clearly defined standalone cover pool would only materialise if: i) early supervisory intervention has not helped to stabilise the bank; ii) regulatory capital is fully depleted, and significant amounts of bail-inable debt converted into capital or written down are insufficient to ensure the continuation of the issuer; and iii) the restructured or resolved bank becomes insolvent. Fundamental credit factors can support a credit enhancement of up to six notches above the rating of a resolvable bank that has sizeable bail-inable debt and is a regular and visible covered bond issuer in a covered-bond-supportive country.

1 More details can be found in 'Rating Methodology: Covered Bonds', available at [www.scoperatings.com](http://www.scoperatings.com).

The **cover pool analysis** can further support the rating by up to three additional notches above that suggested by the fundamental credit strength of the covered bond, provided transparency and complexity do not constrain the uplift.

In general, our covered bond ratings are linked to the bank's, except when features similar to that of a structured finance transaction override the issuer's influence on a covered bond's risk and refinancing structure. For example, the cover pool benefit for covered bonds that become pass-through is not likely to be capped at three notches above our fundamental view on the supporting frameworks.

### **FUNDAMENTAL CREDIT SUPPORT ANALYSIS**

The legal framework and resolution regime analysis in our methodology covers relevant aspects before and after an issuer becomes insolvent and can provide a credit uplift of up to two and four notches, respectively, to the bank rating (i.e. a total of six notches for fundamental aspects).

The legal framework analysis provides a credit differentiation based on the clarity of provisions behind the ongoing maintenance of a high-credit-quality cover pool, as well as when the cover pool is the sole source of repayment for a covered bond.

The resolution regime analysis also addresses how well statutory provisions avoid negative repercussions on the covered bond in a resolution scenario. Systemic importance might mobilise regulators, supervisors or the private sector to support and proactively avoid uncertainty among covered bond investors during resolution. The resolution regime assessment also identifies the importance of relevant covered bond types in each country to understand incentives for market-led solutions. We also reflect whether a proactive and cohesive stakeholder community is actively working together to preserve the credit quality of covered bonds.

For highly rated banks, covered bond ratings can primarily be driven by the fundamental benefits from regulatory frameworks applicable to banks and their covered bonds. Therefore, benefits from the cover pool only become relevant for the covered bond rating when a bank's credit quality and ratings start to shift down.

#### **Legal framework analysis**

A supportive legal framework can provide a covered bond rating with up to two notches of credit uplift from the issuer rating. Our legal framework assessment identifies whether the covered bond structure can transition smoothly away from the insolvent issuer. The transition should avoid acceleration and allow the cover pool to be maintained. Preserving the cover pool upon the restructuring or insolvency of the issuer helps to ensure that full and timely payments on outstanding covered bonds continue. Programme enhancements, in particular overcollateralisation, should remain available, valid and enforceable to other creditors, and neither a regulatory action nor an issuer event of default should impact the ability to manage the covered bond structure in the best interests of investors.

The framework should also advise on how to contain credit, market and liquidity risks before insolvency. Proactive liquidity management before and after insolvency, which helps with timely payment to covered bond holders, should also be possible. Furthermore, we seek to understand how well a legal framework resolves potential conflicts of interest between covered bond holders and other debtors in the case of regulatory action or insolvency. Lastly, we identify whether a supervisor or special trustee monitors the programme's structure independently and regularly (asset composition/structural risk) and whether this function can effectively act as a gatekeeper against any adverse cover pool management by the issuer.

If the above elements only partially apply, credit differentiation will be limited. For instance, if covered bonds were to accelerate upon the issuer's insolvency, because of either contractual or statutory provisions, the legal framework analysis may only warrant a maximum uplift of one notch for the covered bond rating. Similarly, weak covered bond oversight, or the absence of it, will likely prevent the highest credit differentiation. The

limitation reflects that some main assumptions for a covered bond are unmet, i.e. the uninterrupted payment of bonds after insolvency, or special oversight.

The European covered bond harmonisation addresses all major structural aspects relevant for the legal framework uplift. Neither national discretion in the translation of the directive nor the difference between standard and premium European covered bonds will likely impact the ability to provide the full uplift for most European covered bonds. Remaining legal differences will instead have implications in our resolution regime analysis (i.e. lower uplift for non-standard asset types) or the cover pool risk analysis.

### **Resolution regime analysis**

We assign up to four notches of uplift for a supportive resolution framework to reflect a high likelihood that an issuer can maintain their covered bonds as a going-concern funding instrument. The uplift reflects the extreme unlikelihood that an investor would need to rely solely on the cover pool if its issuer operates in a framework similar to the Bank Recovery and Resolution Directive (BRRD). We analyse the following factors that would prevent an issuer's regulatory intervention from affecting the covered bond's credit quality:

- > whether statutory provisions in resolution regimes explicitly address that covered bonds will generally not be impacted upon a regulatory intervention in the issuer (no bail-in);
- > whether the issuer's business model and balance sheet structure suggest that regulators will very likely use available resolution tools to restructure the issuer to maintain the covered bond programme as a going concern;
- > whether covered bonds are a systemically important funding tool used by most banks in the country, the covered bond type is used to refinance cover pool assets that are important for the economy, and the covered bond issuer is actively and visibly using the product; and
- > whether an active domestic stakeholder community (regulators, issuers and investors) proactively monitors market developments, maintains confidence in the product and encourages improvements to relevant regulations. We further assess the clarity and predictability of relevant statutory provisions, their interpretation as well as the track record of relevant authorities.

### **COVER POOL ANALYSIS**

In the cover pool support analysis, we evaluate the expected loss of the covered bonds. We also assess the extent to which the interplay of complexity and transparency will allow for the maximum uplift (CPC-Score).

For programmes where issuers provide full transparency on asset credit risk, market risk and where management is highly predictable (CPC score 1), we may grant the full three notch uplift – always provided that identified risks are sufficiently mitigated by i.e. overcollateralisation. Issuers that only provide minimum regulatory transparency for programmes that are in winddown, contain very illiquid cover assets or exhibit material market risks (CPC score 4) are not very likely to provide cover pool support over and above the floor established by fundamental credit support.

Assuming highest transparency, the maximum credit differentiation between the bank and the covered bonds can be as high as nine notches. The highest covered bond ratings can in principle be supported by a strong cover pool, provided the covered bonds are issued by a resolvable and visible investment-grade issuer (at least BBB-) located in a covered-bond-supportive country.

The detailed cover pool analysis informs on how specific characteristics of the covered bond structure, including the supporting overcollateralisation, may affect the instrument's loss given default, as well as the rating stability the cover pool adds to the covered bonds.

## **Asset credit risk analysis**

We use market-standard approaches to establish cover pool default distributions. Concentrated cover pools, typical for public sector or commercial real estate-backed covered bonds, are analysed with Monte Carlo simulation tools. For homogenous, granular cover pools, typical for residential-mortgage loan portfolios, we use a portfolio approximation approach, typically derived based on issuer-specific performance data, but which can also be conservatively established with generic, country- and asset-specific assumptions.

## **Cash flow risk analysis**

This analysis takes the scheduled cash flows of the cover pool assets, outstanding covered bonds and related derivatives into account. We identify the maximum level of credit differentiation a cover pool can support by increasing the severity of stresses for credit, market, and, in particular, refinancing risks. We also consider various levels of overcollateralisation to gain insight to the sensitivity of this premier risk mitigant. We complement our static cash flow analysis with forward-looking views on the potential evolution of risk factors.

Assessing the covered bonds' repayment risk is important for their ratings. Timely repayment of bullet maturities is generally the highest risk covered bonds can be exposed to. Structural features may mitigate, but in most cases not fully eliminate, refinancing risk. Our assessment of how much refinancing risk impacts the credit quality of covered bonds also reflects their role in the financial system. We reflect in the quantitative assessment the options available to generate liquidity to repay maturing covered bonds. Generally, we recognise that proceeds from asset sales will be higher in countries where the product is systemically important and where there is an established covered bond market, compared to countries where covered bonds are only used occasionally.

## **Auxiliary credit considerations**

**Availability of overcollateralisation:** The assessment of an issuer's ability and willingness to provide such protection is essential for the rating analysis. In the absence of contractual commitments, we assume that the lower the bank rating falls, the more likely an issuer's management no longer provides adequate overcollateralisation.

If the issuer has a rating of at least BBB, our analysis considers currently available overcollateralisation. If the rating is below BBB, our decision to take available overcollateralisation into account depends on whether the issuer engages in sufficiently robust communication to capital markets on overcollateralisation and whether this falls in line with expectations. We adjust the level of overcollateralisation downwards if there are no such statements, reflecting past volatility and our forward-looking view on expected levels. We only consider the legal minimum for issuers rated BB and below, unless strongly legally protected.

**Counterparty risk:** The guiding principles when assessing whether key counterparties could impact the cover pool analysis is their materiality and whether they can introduce additional financial or operational risk.

The analysis indicates whether the inadequate credit strength of external counterparties could impact and ultimately constrain the performance and creditworthiness of a covered bond. Effective replacement frameworks or other structural risk-mitigating mechanisms for key agents can typically prevent a negative impact.

**Sovereign risk:** We do not mechanistically limit the maximum rating achievable by a covered bond to the credit rating of the country in which the issuing bank is based or where cover pool assets are originated in.

However, macroeconomic and country specific factors remain important and are included in the asset and cash flow stresses that support covered bond ratings. The weight given to these factors may differ in both the covered bond and the bank analysis, as the cover pool's composition and risk profile may exhibit different risk characteristics than the rest of the balance sheet. As a result, sovereign considerations will differ in significance among issuers, even between different covered bond types from the same issuer.

# SCOPE RATINGS

**ESG risk factors:** ESG can moderately influence a covered bonds credit quality. Starting at the determination of the bank rating, the issuer specific ESG assessment can already result in positive or negative adjustments to the bank rating (for further details see the ESG-D analysis in our bank rating methodology).

Also when establishing the additional covered bond uplift, governance considerations such as strength of supervision as well as the prudent management of a covered bond programme's risk and protection structure may lead to additional adjustments in both, the fundamental but also in the cover pool support analysis.

In the fundamental support analysis we reflect i.e. the stringency of internal and external governance and in the resolution analysis the governance impact of regulatory oversight and an active stakeholder community.

ESG factors can also impact the cover pool support analysis from a qualitative and quantitative angle.

Governance factors such as the potential imbalance between complexity and risk vs. transparency but also management support can constrain the maximum uplift. Further, in the quantitative part of the analysis, we can reflect energy efficiency considerations and their potential impact on the default probability of the borrowers and recovery values of the collateral; similarly, the beneficial increase in liquidity and demand for ESG covered bonds ('greenium') could i.e. positively impact secondary market prices of the supporting collateral and ultimately require lower levels of supporting overcollateralisation.

**Related criteria:**

- > Covered Bond Rating Methodology, May 2021
- > Bank Rating Methodology, January 2021
- > General Structured Finance Methodology, December 2020
- > Methodology for Counterparty Risk in Structured Finance, July 2021

**Related research:**

- > Covered Bond Outlook 2021, January 2021
- > Scope's Covered Bond Quarterlies and thematic commentaries

The above are all available at [www.scoperatings.com](http://www.scoperatings.com).



## CHAPTER 5 - COVERED BOND STATISTICS



## **5.1 INTRODUCTION AND METHODOLOGY**

By Joost Beaumont, Chairman of the ECBC Statistics & Data Working Group, ABN AMRO Bank N.V.

The ECBC Statistics and Data Working Group has been collecting statistics on the outstanding volume and annual gross supply of covered bonds since 2003. The aim is to provide a complete and consistent set of numbers that can serve as a reliable source of data for interested parties, ranging from issuers to investors and regulators.

The collection of statistics is a significant undertaking each year, which is only possible thanks to the cooperation of the Working Group members, in close cooperation with covered bond issuers and banking associations. One representative per country (the list of country representatives can be found in the list of author section at the beginning of the Fact Book) undertakes the initial data collection by approaching each issuer separately in most countries. These figures are then cross checked on the basis of publicly available data by a small number of Working Group members. The 2020 numbers were cross checked by Florian Eichert and Steven Ly from Crédit Agricole, Agustin Martin from BBVA, Karsten Rühlmann from LBBW, Maureen Schuller from ING, as well as myself. A special thanks also goes to José Díaz Martínez and Daniele Westig of the ECBC for all their support during the exercise.

### **GENERAL REMARKS ON THE 2020 STATISTICS**

The aim of the ECBC statistics is to provide the most reliable data on the size and issuance of covered bonds globally. As such, it paints as realistic a picture of developments and trends in the covered bond market. In 2016, a breakdown by maturity structures was added to the statistics, while in 2019, we started to collect statistics on sustainable covered bonds, reflecting their rising importance. This year, the statistical annex will include data on a country-by-country level about the total amounts outstanding and issued of sustainable covered bonds and the number of existing as well as new sustainable issuers, if applicable. Sustainable covered bonds include a formal commitment by the issuer to use the bonds' proceeds to (re)finance loans in clearly defined environmental, social, governance (ESG) or a combination of these (sustainable) or similar criteria. The data is based on self-certification by issuers. In coming years, we will try to further enhance the quality of these data, as we expect that the importance of sustainable covered bonds will continue to grow over time.

As always, we continue to try to improve the quality of the data even for previous years. It is always possible that we miss a bond or still include a bond that has been repaid early (just think of retained covered bonds). Wherever we realize that there was a mistake in last year's data we amend the numbers. As a result of this, there could be some slight differences between this year's numbers and those published in previous years.

Before going into the actual statistics, please find below some general remarks about the figures, which should help to interpret them correctly:

- > Covered bonds are divided into those denominated in euro, those in domestic currency (if not the euro), and those in a currency other than the euro and the domestic currency. The tables are all in euro, with the end-of-year exchange rates published by the European Central Bank used to convert all non-euro denominated figures into euro for the respective year. This adds an exchange rate component to the volumes of non-euro covered bond markets. However, the aim is to show volumes that allow a potential investor to get a feel for the relative size of the various countries rather than the funding volumes obtained by issuers, which typically are swapped back into their domestic currency at issuance.
- > Another breakdown is the public placement of covered bonds, which splits the bonds by their size (EUR1bn and above, EUR500m – below 1bn, below EUR 500m). This is to provide a feeling for how large liquid benchmark markets are relative to the overall market size. For non-euro issuance we have introduced waivers, as for example USD500m is a benchmark size in USD markets but when converting it to EUR would fall into the EUR<500m bucket. The amounts relevant for the three buckets are as follows.

AUD: AUD1bn, AUD500m, AUD<500m

USD: USD1bn, USD500m, USD<500m

GBP: GBP500m, GBP250m, GBP<250m

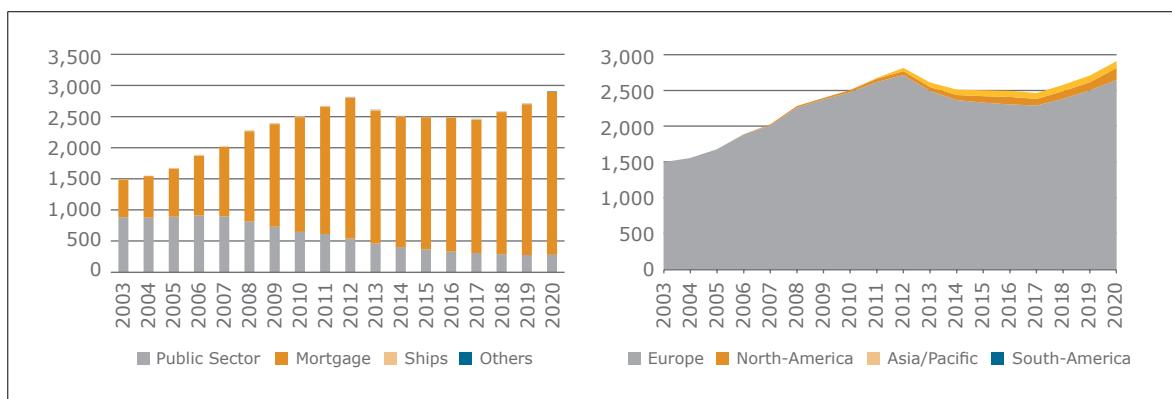
- > For the purpose of counting the number of issuers and of new issuers the following applies: 1) Issuers are entities with at least one outstanding covered bond at year-end. 2) Issuers with multiple programmes still only count as one. The only exception to this rule is French covered bonds. In case of France, the actual issuer is a specialised bank rather than the mother company. As a result, one mother company with two covered bond programmes also counts as two issuers as the issuance actually comes from two separate legal entities. 3) New issuers are entities with at least one outstanding covered bond at year-end, but with no outstanding covered bond at the prior year-end.
- > Spain: Spain's covered bond statistics are based on the data provided by Spain's AIAF (Asociación de Intermediarios de Activos Financieros). We have complemented this with registered unlisted covered bonds from the ECBC Covered Bond Label Database. The breakdown into public and private placements as well as the breakdown into fix and floating coupons in Spain is entirely based on non-AIAF sources.
- > Sweden: Sweden's covered bond statistics exclude retained transactions used for the purpose of accessing central bank liquidity, and include only converted bostadsobligationer (mortgage bonds) and säkerställda obligationer (covered bonds).

### **FACT BOOK VERSUS LABEL STATISTICS**

Before turning to the results of the exercise, we like to highlight the relation between the Fact Book statistics and those published by the ECBC Covered Bond Label. The Label has become a widely used tool with 117 issuers disclosing information on 146 cover pools across 22 countries by 30 September 2021 and covers roughly EUR 2tn of covered bonds, i.e. around 70% of the total outstanding market. When comparing the Covered Bonds listed in the Label statistics to those presented in the Fact Book there might be some discrepancies, especially regarding public-private classification in Denmark and Sweden.

The reason for these discrepancies is the different market structure those two countries have where bonds are frequently tapped, repurchased and then tapped again. The Label as well, as the ECBC statistics definitions requires a bond to be listed and syndicated to be classified as public. Although Danish and Swedish covered bonds are listed, the way they are issued does not comply with the syndication requirement. In the ECBC statistics presented below, we try to capture the "liquid" part of the market with our classifications and in justified cases can be more flexible than the Covered Bond Label database. We have therefore tried to eliminate the differences between both data sets wherever possible. But we have granted Denmark and Sweden an exception and consider bonds that for the ECBC label database are classified as private as public as long as we are talking about liquid benchmarks by these two countries' standards.

> FIGURE 1: TOTAL OUTSTANDING COVERED BOND PER TYPE (LEFT) AS WELL AS REGION (RIGHT), EUR BN



Source: ABN AMRO

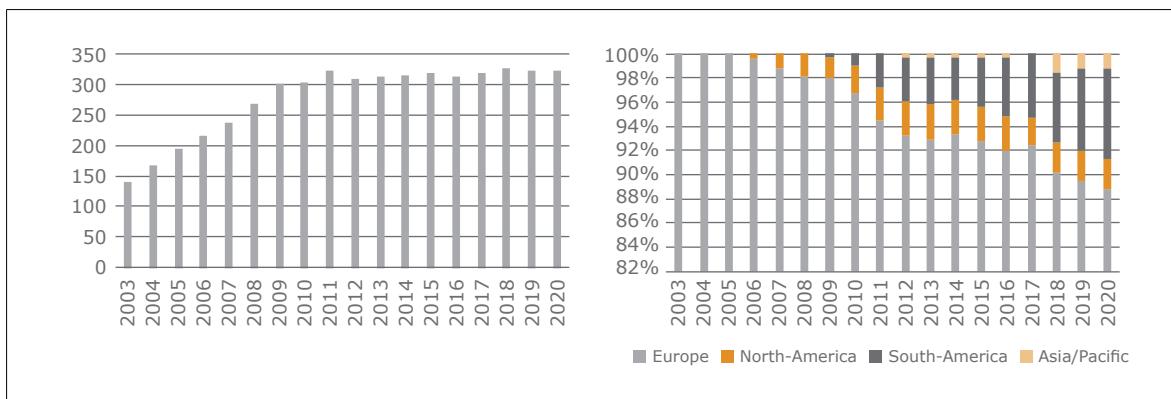
## **OUTSTANDING AMOUNT OF COVERED BONDS REACHED A NEW RECORD IN 2020**

The outstanding amount of covered bonds rose by EUR 201 bn to EUR 2.9 tn at the end of 2020. This was the third consecutive year of growth and set a new record. As such, 2020 took over the helm from 2012 (when EUR 2.8 tn of covered bonds were outstanding). The pace of growth in the amount outstanding accelerated to 7.4% last year, up from 5.1% and 4.7% growth in 2019 and 2018, respectively. Having said that, the increase largely stemmed from issuance of retained covered bonds in 2020, with banks using these bonds as collateral for cheap central bank borrowings offered after the outbreak of COVID-19. Nonetheless, the figures once more underline the significant importance of covered bonds as bank funding tool across the globe.

The breakdown by collateral type shows that the nominal increase in the outstanding amount of covered bonds was largely due to an increase in mortgage backed bonds (+EUR 193 bn, +8%). Furthermore, the volume of covered bonds in the 'other' category increased from EUR 1.5 bn in 2019 to EUR 7.8 bn. This largely reflected issuance of export-finance covered bonds in Spain, issued in retained format. Meanwhile, the outstanding amount of covered bonds backed by public sector assets rose by 1% to EUR 285 bn, after a drop in 2019. The only category that posted a decline in amounts outstanding were covered bonds backed by ship loans (-11%). Overall, mortgages remain the dominant asset class backing covered bonds with a share of 89.7% in the total amount outstanding, followed by public sector backed covered bonds (9.8%), and those backed by ships/other assets (both around 0.3%). Finally, the share of sustainable covered bonds rose to above 1% in 2020.

At the end of 2020, 322 covered bond issuers were active around the globe, of which 34 also issue sustainable covered bonds. This number was stable compared to last year and is the balance between issuers leaving the market (mainly due to mergers and take-overs) and new issuers joining the market. Last year, 12 new issuers entered the covered bond market. Two of which came from Estonia, which has been added to the statistics for the first time this year. It took the total number of countries with outstanding covered bonds to 33 by the end of 2020, up from 32 in 2019. The regional breakdown shows that the majority (88.8%) of all 322 issuers are located in Europe (of which 82% in the EEA), while the share of Asia/Pacific rose to 7.5% last year (2019: 6.8%). The shares of North and South America remained stable at 2.5% and 1.2%, respectively. Having said that, the annual growth rate of North American covered bonds outstanding was a comparatively faster rate of 49% the strongest, supported by large issuance of retained covered bonds by Canadian banks. Finally, there were 447 covered bond programmes at the end of the year, as some issuers have public sector as well as mortgage covered bond programmes while some are using multiple mortgage backed ones.

> FIGURE 2: NUMBER OF COVERED BOND ISSUERS (LEFT) AND THEIR REGIONAL SHARE (RIGHT)



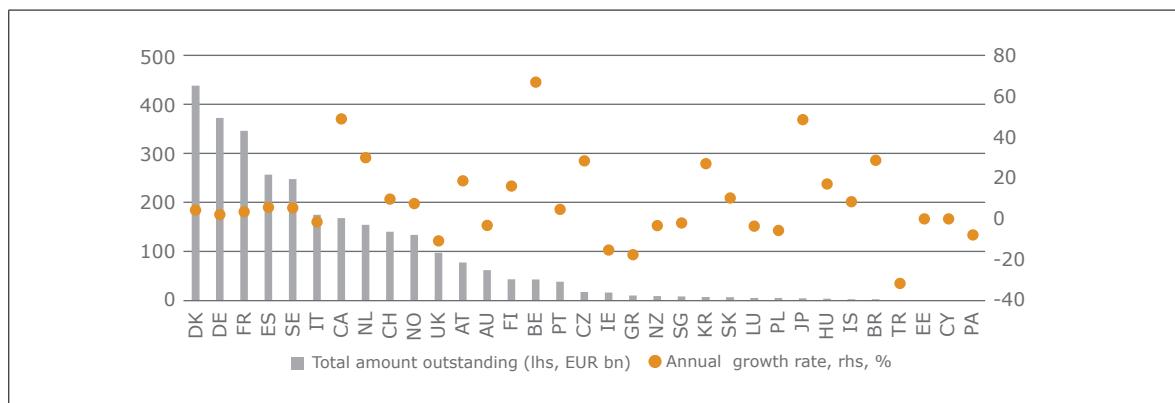
Source: ABN AMRO

A breakdown by country shows that 11 countries saw a decline in the outstanding amount of covered bonds. This number was higher than during the previous two years and was likely due to the reduced bank funding needs following the outbreak of the pandemic. On the positive side, there were 16 countries where the amount of outstanding covered bonds grew by at least 5%.

Zooming in on specific countries shows that the Canadian, Belgium and Japanese covered bonds markets grew the fastest last year. The Belgian market rose by 67% (or EUR 17.4 bn), largely driven by issuance of private placements (i.e. retained covered bond issuance). This was also true for the Canadian covered bond market, which increased by half to EUR 168 bn. The Japanese market is still relatively young (the first issuance was in 2018), but it is growing quickly, as its size grew by 49% to EUR 5.3 bn in 2020. Overall, 17 countries had the highest outstanding amounts at the end of 2020 since the start of the series in 2003.

The top three country ranked by size did not change in 2020, with Denmark (EUR 438 bn) still taking the top spot, followed by Germany (EUR 372 bn) and France (EUR 346 bn). Although the top ten countries remained the same as well, there were some switches in rank. Canada jumped three positions, from 10th place in 2019 to 7<sup>th</sup> place in 2020. This was also the largest jump in rank for a single country. The Netherlands moved up one rank to the 8<sup>th</sup> place, whereas Switzerland and Norway dropped two places each, taking ranks 9 and 10, respectively.

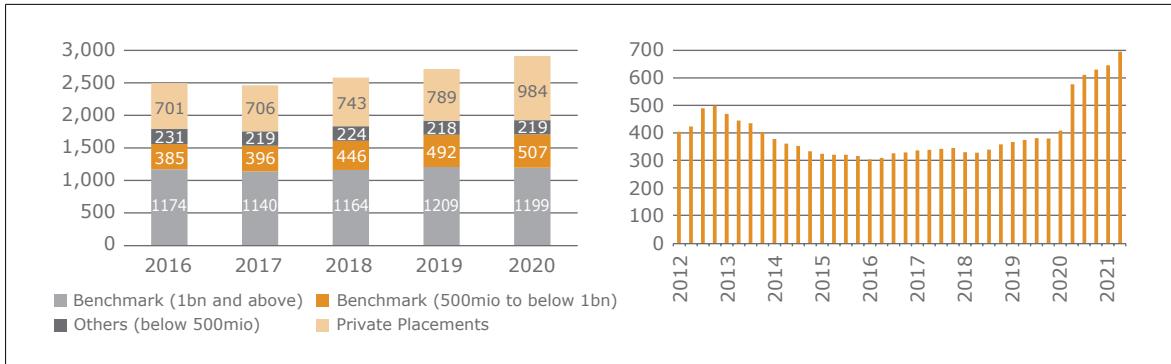
> FIGURE 3: TOTAL AMOUNT OF OUTSTANDING COVERED BONDS BY COUNTRY AND ANNUAL CHANGE



Source: ABN AMRO

Turning to the breakdown by public and private placements, the amount of privately placed covered bonds rose at a sharper rate in 2020, reflecting the increased use of covered bonds in central bank refinancing operations. Indeed, the amount of covered bonds used as collateral in ECB refinancing operations increased by EUR 250 bn in 2020 (see the graph below right). The share of privately placed covered bonds in the total amount outstanding rose to 34% at the end of 2020 (2019: 29%). Still, the majority is publicly placed, with the market of benchmark bonds with a size of EUR 1 bn accounting for 41% of all outstanding covered bonds and covered bonds with a size between EUR 500 mn and below EUR 1 bn having a 17% share in the total.

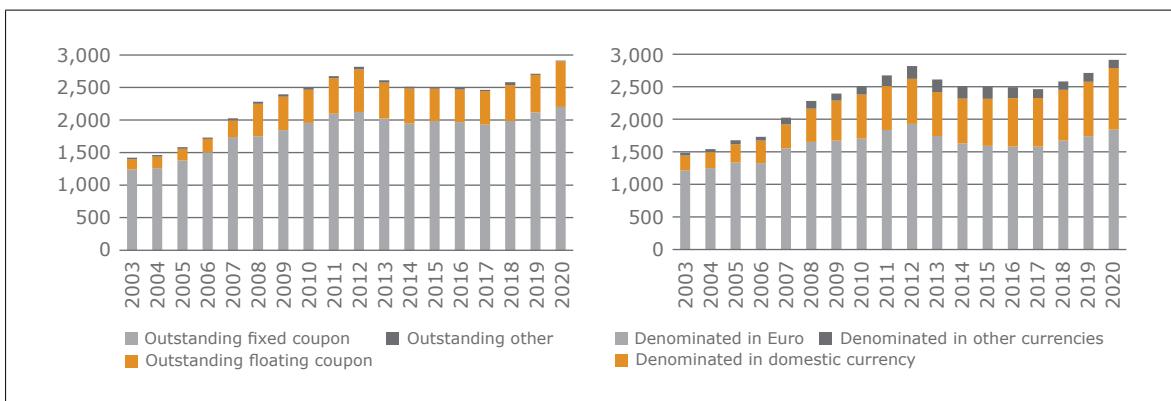
> FIGURE 4: OUTSTANDING COVERED BONDS BY ISSUE TYPE AND AMOUNT OF COVERED BONDS USED AS COLLATERAL IN ECB REFINANCING OPERATIONS (EUR BN)



Source: ECB, ABN AMRO

The breakdown of outstanding covered bonds by coupon type as well as by currency type remained fairly stable in 2020. The fixed rate coupon remained the standard (76%), reflecting that almost all publicly placed benchmark covered bonds in EUR have a fixed coupon. Floating rate covered bonds had a share of 24% last year, which was slightly up from the 21% in 2019. This, again, was likely due to the fact that most retained covered bonds have floating rate coupons. Meanwhile, the euro remains the dominant currency (share of 63% in the total), followed by domestic currencies (32%). Both markets saw an increase in volumes outstanding of more than EUR 100 bn.

> FIGURE 5: OUTSTANDING COVERED BONDS BY COUPON TYPE (LEFT) AND CURRENCY (RIGHT), EUR BN

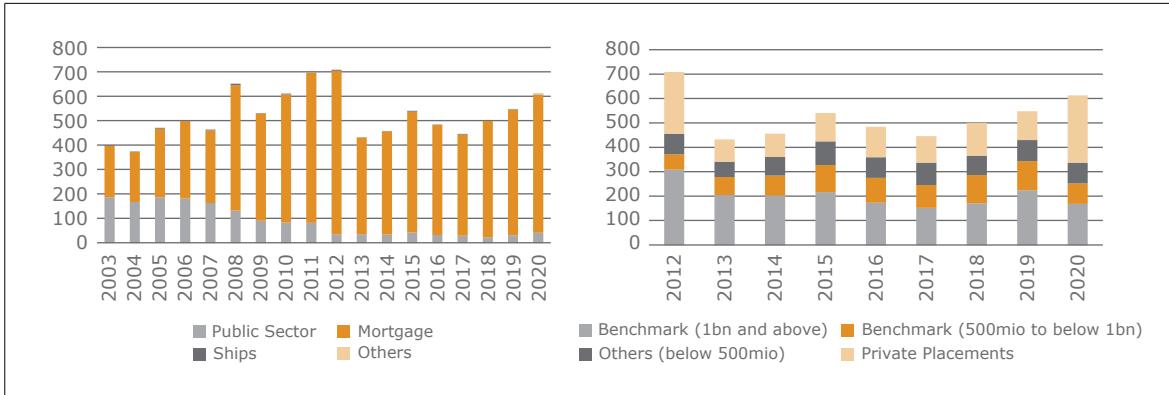


Source: ABN AMRO

#### **NEW ISSUANCE ROSE FOR THIRD YEAR IN A ROW, MAINLY DRIVEN BY RETAINED COVERED BONDS**

New issuance of covered bonds was EUR 612 bn last year, up from EUR 548 bn in 2019 (+11.8%). EUR 337 bn of issued covered bonds were public placements and EUR 275 bn were private placements. This marked the third consecutive year during which issuance rose versus a year ago. However, the growth in issuance in 2020 came only on the account of private placements, which rose by EUR 156 bn. In contrast, issuance of public placements dropped by EUR 92 bn against 2019 values. Meanwhile, all types of covered bonds saw an increase in issuance in 2020, except for ship covered bonds. Mortgage backed covered bonds remained by far the dominant type, reflected by the 92% share in total issuance. They were followed by public sector covered bonds, which had a 7% share in total issuance in 2020.

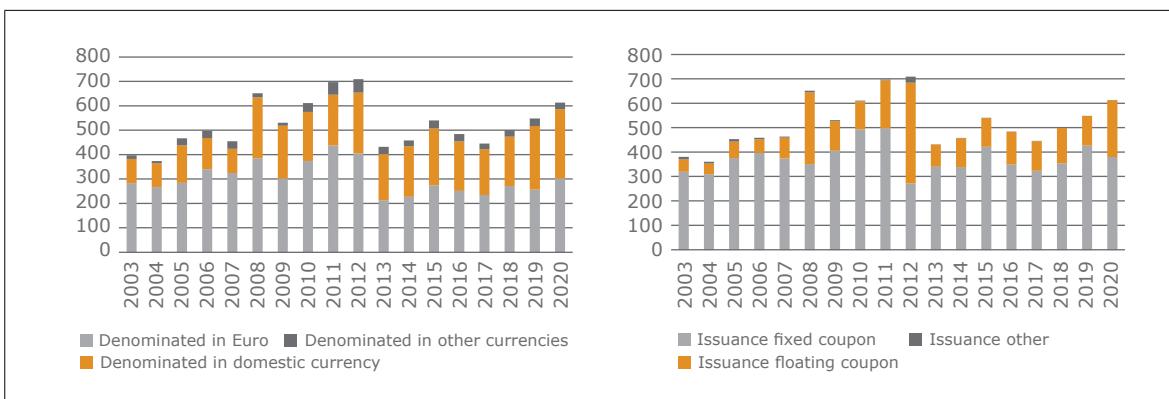
> FIGURE 6: NEW ISSUANCE OF COVERED BONDS BY TYPE (LEFT) AND SIZE (RIGHT), EUR BN



Source: ABN AMRO

A breakdown by other categories showed that the issuance of floating rate covered bonds almost doubled to EUR 232 bn, which mirrors the significant rise in issuance of private placements. At the same time, issuance of fixed rate covered bonds declined by EUR 47 bn to EUR 380 bn, reflecting the drop in benchmark deals. However, this still means that fixed rate covered bonds are still dominant in the covered bond market. The breakdown of issuance by currency shows that EUR 304 bn of new issues were in euros, while EUR 282 bn was in domestic currencies.

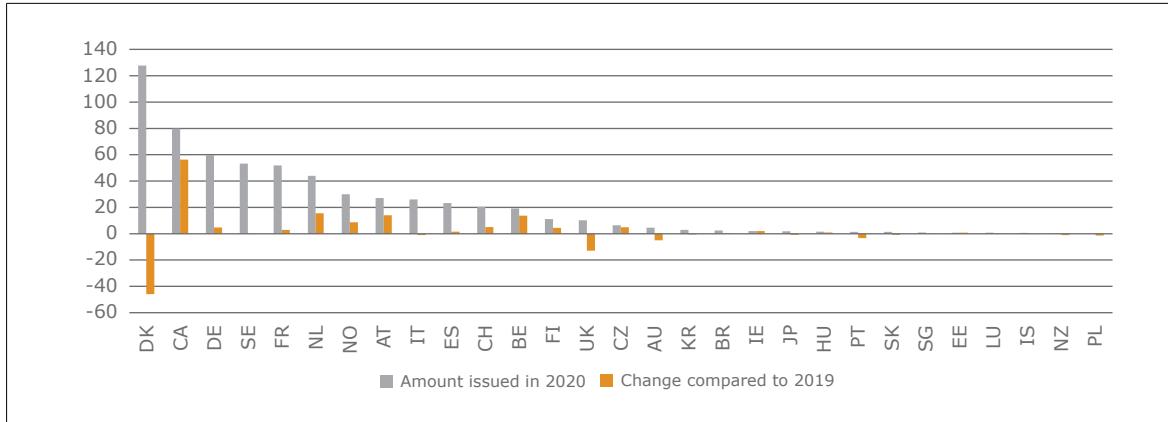
> FIGURE 7: ISSUANCE OF COVERED BONDS BY CURRENCY (LEFT) AND COUPON TYPE (RIGHT), EUR BN



Source: ABN AMRO

A country breakdown reveals that Denmark also kept its leading position in terms of new issuance, despite a decline in the volume of new issues from the country in 2020 compared to 2019. Danish covered bond issuers sold EUR 128 bn of covered bonds last year, which was EUR 46 bn less than in 2019. Interesting to note is that Canadian issuers came second, with EUR 80 bn of issuance in 2020. This was helped by a temporarily lift in the covered bond issuing cap by the country's regulator following the outbreak of the pandemic. As a result, Canada rose 5 places versus its 2019 rank. Germany (EUR 60 bn), Sweden (EUR 53 bn), and France (EUR 52 bn) ranked third, fourth and fifth, all losing one place compared to 2019 figures.

> FIGURE 8: COVERED BOND NEW ISSUANCE BY COUNTRY AS WELL AS CHANGE VERSUS 2018



Source: ABN AMRO

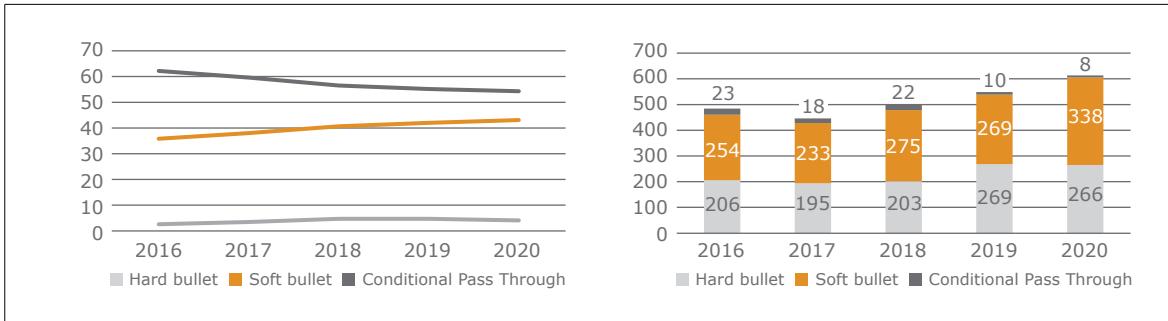
### DEVELOPMENTS BY MATURITY STRUCTURE

Maturity structures have been high on the covered bond agenda for years, which was also the reason to add the maturity breakdown to the statistics in 2016. The discussion has continued now that individual countries need to transpose the new EU Directive into national covered bond laws. So far, it seems that more countries will allow covered bonds with maturity extensions, which would be in line with developments in recent years during which hard bullet covered bonds lost market share in favour of soft bullet covered bonds. Furthermore, there have also been developments related to conditional pass-through covered bonds (CPTCB), as some CPTCB issuers have shifted to soft bullets.

A breakdown of the outstanding amounts show that hard bullet covered bonds lost some further market share to soft bullet structures last year. Hard bullet covered bonds made up 54% of the total amount of outstanding covered bonds at the end of 2020, while this was 63% in 2016 when this data was collected for the first time. The share of soft bullet covered bonds rose from 35% in 2016 to 44% in 2020, reflecting the trend that the soft bullet structure is on track to become the more dominant structure over time. The share of conditional pass-through covered bonds was 3% last year, equal to its share in 2019.

The new issuance data also show that issuance of soft bullet covered bonds rose last year, whereas issuance of hard bullet covered bonds and CPTCB actually declined slightly. Issuance of soft bullet covered bonds was boosted by Canada and the Netherlands, the latter of which was also largely accountable for the decline in issuance of CPTCB. Three Dutch CPTCB issuers have shifted to soft bullets, implying that issuance of Dutch CPTCB dropped by almost EUR 2 bn in 2020 versus issuance in 2019.

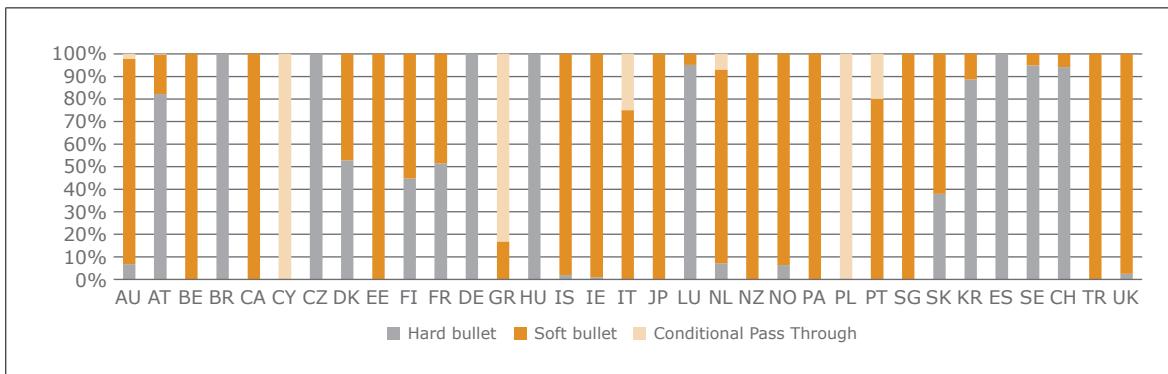
> FIGURE 9: SHARE OF COVERED BONDS OUTSTANDING IN TOTAL (LEFT, %) AND NEW ISSUANCE BY MATURITY TYPE (EUR BN, LABELS ARE EUR BN)



Source: ABN AMRO

The graph below shows that in seven countries, hard bullet structures are still at least 95% of the outstanding amount of covered bonds, while this is in 11 countries the case for soft bullet covered bonds. However, the transposition of the new EU Directive is likely to change the picture as of end 2022 onward, in favour of soft bullet covered bonds.

> FIGURE 10: OUTSTANDING COVERED BONDS BY MATURITY AND COUNTRY (%)



Source: ABN AMRO

### SUSTAINABLE COVERED BONDS GAINED FURTHER MOMENTUM IN 2020

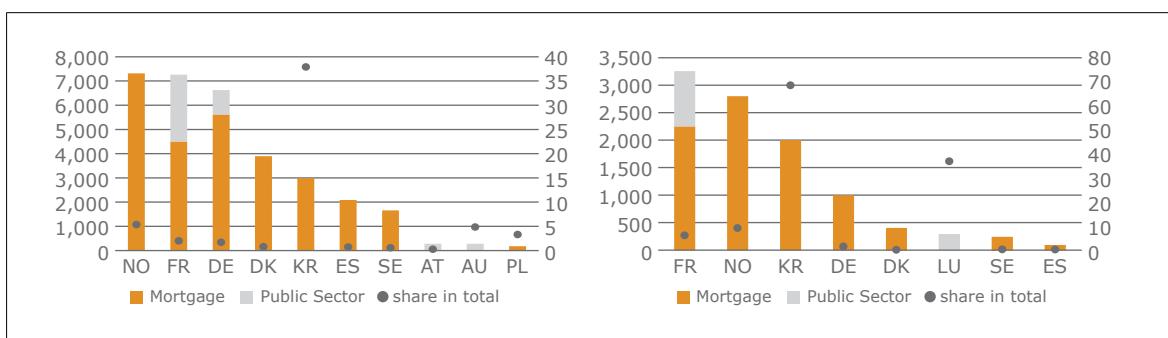
The market for sustainable covered bonds, i.e. covered bonds that have a green or social angle, has been steadily growing since the first sustainable covered bond was issued in 2014. As a result of their increasing relevance, we decided to start collecting data about sustainable covered bonds last year. This year, we included the total amount outstanding as well as the total amounts issued of sustainable covered bonds in the country data tables.

The volume of outstanding sustainable covered bonds increased by more than EUR 10 bn to EUR 33 bn in 2020. This took the share of sustainable covered bond to just over 1% of total covered bonds outstanding, indicating that the market is still relatively small. Luxembourg joined the sustainable covered bond market in 2020, being the only country that has a dedicated covered bond law for green covered bonds. This took the total countries with sustainable covered bonds outstanding to ten, while 34 issuers had sustainable covered bonds outstanding at the end of last year. Norway, France and Germany are the countries with the largest volumes of sustainable covered bonds, while Korea had the highest share of sustainable covered bonds versus the total market size.

Furthermore, the data show that 87% of outstanding sustainable covered bonds are backed by mortgages, while 13% is backed by public sector loans.

Issuance of sustainable covered bonds slowed down slightly last year, as EUR 10 bn of sustainable covered bonds were issued in 2020 compared to EUR 12 bn in 2019. This was 1.6% of total issuance. Issuance was at least EUR 1 bn in France, Norway, Korea and Germany, while the share of mortgage and public sector covered bonds was in line with the split of the amounts outstanding. It is worth highlighting that in 2020, the first social covered bond related to COVID-19 was issued.

> FIGURE 11: BREAKDOWN OF SUSTAINABLE COVERED BONDS OUTSTANDING (LEFT) AND NEW ISSUANCE (RIGHT) (EUR BN AND % MARKET SHARE)



Source: ABN AMRO

#### **DEVELOPMENTS IN 2021: LACK OF SUPPLY ONGOING, EXCEPT FOR SUSTAINABLE COVERED BONDS**

This year, the covered bond market has also been characterised by a lack of supply, as cheap borrowing from central banks as well as large inflow of deposits has continued to reduce bank funding needs. New issuance of euro benchmark covered bonds was almost 25% lower during the first eight months of 2021 than during the same period in 2020. Meanwhile, issuance of retained covered bonds has continued to rise, suggesting that next year's figures will show a somewhat similar picture than 2020. Meanwhile, the GBP denominated covered bond market has held up well in 2021, with issuance already roughly the total amount issued in 2020. Having said that, issuance of covered bonds in other currencies (USD, AUD) has slowed as well.

On a positive note, we have seen more issuance of sustainable euro benchmark covered bonds year-to-date than during 2020 as whole. Indeed, the share of sustainable euro benchmark covered bonds stood at around 18% at the end of August, well above the 7% share last year. We are therefore likely to see a further increase in the amount of sustainable covered bonds in next year's data.

## 5.2 STATISTICS

### 5.2.1 TOTAL

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total CB Outstanding										
Public Sector	616,551	543,977	464,761	408,617	371,530	335,525	312,458	294,007	282,709	285,328
Mortgage	2,041,648	2,254,388	2,131,211	2,088,468	2,116,116	2,146,478	2,140,271	2,275,873	2,414,606	2,607,751
Ships	12,640	13,571	11,306	9,824	10,379	8,295	7,367	6,524	8,814	7,892
Others	-	506	506	1,006	1,006	1,006	505	505	1,500	7,697
<b>Total Outstanding</b>	<b>2,670,839</b>	<b>2,812,442</b>	<b>2,607,784</b>	<b>2,507,915</b>	<b>2,499,031</b>	<b>2,491,304</b>	<b>2,460,601</b>	<b>2,576,909</b>	<b>2,707,629</b>	<b>2,908,668</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>22,045</b>	<b>32,632</b>
Public Placements										
Benchmark (1bn and above)	n.a.	1,438,710	1,302,543	1,239,657	1,203,034	1,174,136	1,139,513	1,163,672	1,209,209	1,198,991
Benchmark (500mio to below 1bn)	n.a.	218,255	232,511	289,337	356,990	385,000	395,844	446,008	491,996	507,218
Others (below 500Mio)	n.a.	338,884	335,427	272,288	244,317	231,165	219,442	223,951	217,875	218,541
Private Placements	n.a.	816,593	737,303	706,634	694,688	701,003	705,802	743,279	788,548	983,920
<b>Total</b>	<b>2,670,840</b>	<b>2,812,441</b>	<b>2,607,783</b>	<b>2,507,916</b>	<b>2,499,030</b>	<b>2,491,304</b>	<b>2,460,601</b>	<b>2,576,911</b>	<b>2,707,629</b>	<b>2,908,670</b>
Denominated in EURO	1,834,407	1,928,952	1,743,184	1,630,760	1,592,989	1,580,921	1,578,519	1,673,721	1,740,074	1,841,379
Denominated in domestic currency	673,074	690,151	671,345	682,550	719,529	740,994	744,982	776,216	833,668	941,393
Denominated in other currencies	163,357	193,337	193,254	194,606	186,513	179,388	137,099	126,973	133,887	125,897
<b>Total</b>	<b>2,670,838</b>	<b>2,812,441</b>	<b>2,607,784</b>	<b>2,507,915</b>	<b>2,499,031</b>	<b>2,491,304</b>	<b>2,460,600</b>	<b>2,576,911</b>	<b>2,707,629</b>	<b>2,908,669</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	1,563,697	1,470,119	1,446,146	1,476,959	1,556,964
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	875,176	929,033	1,052,425	1,149,141	1,271,929
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	52,431	61,448	78,339	81,530	79,776
<b>Total</b>	<b>2,670,840</b>	<b>2,812,441</b>	<b>2,607,783</b>	<b>2,507,916</b>	<b>2,499,030</b>	<b>2,491,304</b>	<b>2,460,600</b>	<b>2,576,911</b>	<b>2,707,629</b>	<b>2,908,669</b>
Outstanding fixed coupon	2,096,016	2,121,714	2,022,352	1,944,713	1,985,153	1,967,187	1,926,775	1,984,668	2,116,684	2,200,305
Outstanding floating coupon	542,469	650,616	548,442	534,912	493,133	496,811	515,098	547,978	572,718	696,587
Outstanding other	32,354	40,111	36,989	28,291	20,745	27,306	18,728	44,266	18,228	11,776
<b>Total</b>	<b>2,670,838</b>	<b>2,812,441</b>	<b>2,607,783</b>	<b>2,507,916</b>	<b>2,499,031</b>	<b>2,491,304</b>	<b>2,460,601</b>	<b>2,576,913</b>	<b>2,707,629</b>	<b>2,908,668</b>
Number of Programmes	38	50	412	422	436	427	427	440	446	447
<b>Number of Issuers</b>	<b>322</b>	<b>308</b>	<b>311</b>	<b>314</b>	<b>317</b>	<b>311</b>	<b>318</b>	<b>325</b>	<b>322</b>	<b>322</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>1</b>	<b>23</b>	<b>34</b>						
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total CB Issuance										
Public Sector	82,711	36,495	36,096	34,537	43,486	33,554	30,510	23,841	32,179	42,418
Mortgage	612,290	666,391	395,348	421,705	493,214	449,384	412,580	475,057	510,670	562,341
Ships	1,016	4,643	761	1,319	3,163	883	2,524	1,193	3,473	1,492
Others	-	506	-	500	-	-	-	-	1,500	6,197
<b>Total Issuance</b>	<b>696,017</b>	<b>708,034</b>	<b>432,205</b>	<b>458,061</b>	<b>539,863</b>	<b>483,821</b>	<b>445,614</b>	<b>500,092</b>	<b>547,822</b>	<b>612,448</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>500</b>	<b>12,242</b>	<b>10,103</b>
Public Placements										
Benchmark (1bn and above)	n.a.	308,776	204,900	202,950	217,361	173,759	153,174	171,719	224,614	168,756
Benchmark (500mio to below 1bn)	n.a.	62,773	74,031	81,969	110,252	101,371	93,021	114,846	118,650	83,953
Others (below 500Mio)	n.a.	84,084	62,678	76,357	96,787	84,188	91,636	79,838	86,251	84,719
Private Placements	n.a.	252,401	90,594	94,838	115,465	124,505	107,783	133,689	118,306	275,019
<b>Total</b>	<b>696,017</b>	<b>708,034</b>	<b>432,204</b>	<b>456,114</b>	<b>539,864</b>	<b>483,822</b>	<b>445,614</b>	<b>500,092</b>	<b>547,822</b>	<b>612,448</b>
Denominated in EURO	437,190	405,271	213,868	227,734	275,003	252,062	235,355	271,813	257,512	303,679
Denominated in domestic currency	207,701	248,382	188,399	207,133	232,050	202,150	186,637	201,570	259,621	281,684
Denominated in other currencies	51,125	54,381	29,937	23,193	32,811	29,609	23,622	26,707	30,690	27,084
<b>Total</b>	<b>696,016</b>	<b>708,034</b>	<b>432,205</b>	<b>458,060</b>	<b>539,864</b>	<b>483,821</b>	<b>445,614</b>	<b>500,091</b>	<b>547,822</b>	<b>612,448</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	174,045	206,369	194,598	202,903	269,000	265,833
Soft Bullet	n.a.	n.a.	n.a.	n.a.	59,810	254,023	233,403	275,420	268,603	338,406
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	6,201	23,429	17,613	21,688	10,219	8,209
<b>Total</b>	<b>696,016</b>	<b>708,034</b>	<b>432,205</b>	<b>458,060</b>	<b>539,864</b>	<b>483,821</b>	<b>445,614</b>	<b>500,012</b>	<b>547,822</b>	<b>612,448</b>
Issuance fixed coupon	497,337	272,029	339,953	339,104	421,494	349,268	323,802	353,880	426,534	379,799
Issuance floating coupon	195,736	411,133	91,461	117,878	117,198	133,323	120,841	144,230	120,865	232,338
Issuance other	2,943	24,872	790	1,079	1,171	1,231	971	1,980	422	311
<b>Total</b>	<b>696,017</b>	<b>708,034</b>	<b>432,205</b>	<b>458,061</b>	<b>539,863</b>	<b>483,822</b>	<b>445,614</b>	<b>500,091</b>	<b>547,822</b>	<b>612,448</b>
<b>Number of New Issuers</b>	<b>23</b>	<b>20</b>	<b>8</b>	<b>9</b>	<b>14</b>	<b>8</b>	<b>14</b>	<b>16</b>	<b>12</b>	<b>12</b>
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1</b>	<b>9</b>	<b>6</b>

Note: Please note that a few changes were undertaken in 2013 to the way data is grouped and shown. These changes impact the figures from 2012 onwards. A number of them, especially the size and placement type category changes, are substantial to how data is displayed. Backdating data to fit the new categories and maintaining consistent data history for previous years is a major challenge. Therefore, there is a full dataset going back to 2003 for some countries while there is only data from 2012 going forward for others. Consequently, on the aggregate covered bond market level, only data for the new categorisation for 2012 and 2013 is shown. The old categories together with the historic data can be found on the 2012 edition of the ECBC Fact Book. For further information on these changes, please see the Statistics introduction of the Fact Book.

Please note that the statistics contain "n.a." when data is not available, "-" when the value is zero and "\*" indicates that the figure in question does not correspond to the sum of the above sub-components due to the unavailability in some countries of these breakdowns. In addition, please note that totals are calculated using available data only, and that any fluctuations of values in this table over time may be partly due to one or more countries' data becoming available or unavailable from one year to the next. In order to be sure about what causes changes in the totals, please see the individual country statistics. Finally, please also note that any small difference between Totals in the same year is due to rounding.

Source: EMF-ECBC

## 5.2.2 TOTAL 2020 STATISTICS BY TYPE OF ASSETS

	COVERED BONDS OUTSTANDING 2020 in EUR million					
	Public Sector	Mortgage	Ships	Others	Mixed Assets	TOTAL
Australia	-	62,592	-	-	-	62,592
Austria	18,348	59,601	-	-	-	77,949
Belgium	2,461	41,062	-	-	-	43,523
Brazil	-	3,199	-	-	-	3,199
Canada	-	168,195	-	-	-	168,195
Cyprus	-	650	-	-	-	650
Czech Republic	-	18,185	-	-	-	18,185
Denmark	12,872	419,031	5,680	-	-	437,583
Estonia	-	850	-	-	-	850
Finland	-	43,855	-	-	-	43,855
France	68,123	221,821	-	-	55,824	345,767
Germany	123,425	246,311	2,212	-	-	371,947
Greece	-	10,890	-	-	-	10,890
Hungary	-	4,526	-	-	-	4,526
Iceland	-	3,330	-	-	-	3,330
Ireland	178	16,816	-	-	-	16,995
Italy	4,075	171,102	-	-	-	175,177
Japan	-	5,322	-	-	-	5,322
Latvia	-	-	-	-	-	-
Luxembourg	5,767	-	-	300	-	6,067
The Netherlands	-	154,505	-	-	-	154,505
New Zealand	-	9,692	-	-	-	9,692
Norway	2,580	131,713	-	-	-	134,294
Panama	-	33	-	-	-	33
Poland	58	5,776	-	-	-	5,834
Portugal	600	38,350	-	-	-	38,950
Singapore	-	8,815	-	-	-	8,815
Slovakia	-	7,337	-	-	-	7,337
South Korea	-	7,928	-	-	-	7,928
Spain	18,262	231,143	-	7,397	-	256,802
Sweden	-	247,713	-	-	-	247,713
Switzerland	-	140,617	-	-	-	140,617
Turkey	-	1,755	-	-	-	1,755
United Kingdom	667	97,124	-	-	-	97,791
United States	-	-	-	-	-	-
<b>Total</b>	<b>257,416</b>	<b>2,579,839</b>	<b>7,892</b>	<b>7,697</b>	<b>55,824</b>	<b>2,908,668</b>

	COVERED BONDS ISSUANCE 2020 in EUR million					
	Public Sector	Mortgage	Ships	Others	Mixed Assets	TOTAL
Australia	-	4,594	-	-	-	4,594
Austria	6,515	20,587	-	-	-	27,102
Belgium	-	19,250	-	-	-	19,250
Brazil	-	2,473	-	-	-	2,473
Canada	-	79,834	-	-	-	79,834
Cyprus	-	-	-	-	-	-
Czech Republic	-	6,412	-	-	-	6,412
Denmark	2,469	124,013	1,042	-	-	127,524
Estonia	-	850	-	-	-	850
Finland	-	11,199	-	-	-	11,199
France	9,047	39,770	-	-	3,025	51,842
Germany	19,080	40,248	450	-	-	59,778
Greece	-	-	-	-	-	-
Hungary	-	1,555	-	-	-	1,555
Iceland	-	646	-	-	-	646
Ireland	-	2,000	-	-	-	2,000
Italy	-	26,100	-	-	-	26,100
Japan	-	1,850	-	-	-	1,850
Latvia	-	-	-	-	-	-
Luxembourg	512	-	-	300	-	812
The Netherlands	-	44,013	-	-	-	44,013
New Zealand	-	315	-	-	-	315
Norway	382	29,686	-	-	-	30,068
Panama	-	-	-	-	-	-
Poland	-	22	-	-	-	22
Portugal	-	1,500	-	-	-	1,500
Singapore	-	1,000	-	-	-	1,000
Slovakia	-	1,500	-	-	-	1,500
South Korea	-	2,921	-	-	-	2,921
Spain	2,900	14,560	-	5,897	-	23,357
Sweden	-	53,222	-	-	-	53,222
Switzerland	-	20,508	-	-	-	20,508
Turkey	-	-	-	-	-	-
United Kingdom	-	10,201	-	-	-	10,201
United States	-	-	-	-	-	-
<b>Total</b>	<b>40,905</b>	<b>560,829</b>	<b>1,492</b>	<b>6,197</b>	<b>3,025</b>	<b>612,448</b>

Source: EMF-ECBC

### 5.2.3 AUSTRALIA

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	2,478	35,962	51,831	64,741	69,312	70,796	64,001	65,855	64,630	62,592
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>2,478</b>	<b>35,962</b>	<b>51,831</b>	<b>64,741</b>	<b>69,312</b>	<b>70,796</b>	<b>64,001</b>	<b>65,855</b>	<b>64,630</b>	<b>62,592</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	15,160	18,160	24,846	27,005	46,350	38,911	41,307	35,795	36,841
Benchmark (500mio - below 1bn)	-	3,061	7,285	8,945	11,151	6,887	8,587	7,341	12,023	9,082
Others (below 500Mio)	949	3,529	3,832	4,241	3,756	303	-	599	2,229	370
<b>Private Placement</b>	<b>1,530</b>	<b>14,212</b>	<b>22,554</b>	<b>26,710</b>	<b>27,400</b>	<b>17,256</b>	<b>16,504</b>	<b>16,609</b>	<b>14,584</b>	<b>16,299</b>
<b>Total</b>	<b>2,478</b>	<b>35,962</b>	<b>51,831</b>	<b>64,741</b>	<b>69,312</b>	<b>70,796</b>	<b>64,001</b>	<b>65,855</b>	<b>64,630</b>	<b>62,592</b>
Denominated in EURO	-	10,243	14,355	21,415	26,119	28,814	31,199	35,935	37,710	35,711
Denominated in domestic currency	-	8,427	9,677	10,694	10,728	10,146	6,344	7,712	7,650	8,750
Denominated in other currencies	2,478	17,293	27,799	32,633	32,465	31,836	26,459	22,208	19,270	18,131
<b>Total</b>	<b>2,478</b>	<b>35,962</b>	<b>51,831</b>	<b>64,741</b>	<b>69,312</b>	<b>70,796</b>	<b>64,001</b>	<b>65,855</b>	<b>64,630</b>	<b>62,592</b>
Hard Bullet	2,478	30,423	30,772	31,897	30,849	17,544	13,032	7,678	3,139	4,334
Soft Bullet	-	5,539	21,058	32,844	38,464	53,252	50,469	57,678	60,491	56,786
Conditional Pass Through	-	-	-	-	-	-	500	500	1,000	1,472
<b>Total</b>	<b>2,478</b>	<b>35,962</b>	<b>51,831</b>	<b>64,741</b>	<b>69,312</b>	<b>70,796</b>	<b>64,001</b>	<b>65,855</b>	<b>64,630</b>	<b>62,592</b>
Outstanding fixed coupon	2,478	28,940	43,309	55,503	61,902	63,995	58,777	60,836	59,142	53,915
Outstanding floating coupon	-	7,022	8,522	9,238	7,410	6,801	5,224	5,019	5,488	8,678
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,478</b>	<b>35,962</b>	<b>51,831</b>	<b>64,741</b>	<b>69,312</b>	<b>70,796</b>	<b>64,001</b>	<b>65,855</b>	<b>64,630</b>	<b>62,592</b>
Number of Programmes	n.a.	5	5	5	5	6	7	8	8	8
<b>Number of Issuers</b>	<b>3</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	2,478	33,484	15,868	13,253	10,004	11,382	7,351	11,075	9,511	4,594
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>2,478</b>	<b>33,484</b>	<b>15,868</b>	<b>13,253</b>	<b>10,004</b>	<b>11,382</b>	<b>7,351</b>	<b>11,075</b>	<b>9,511</b>	<b>4,594</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	15,160	3,000	6,686	3,250	5,392	2,814	7,155	6,431	3,650
Benchmark (500mio - below 1bn)	-	3,061	4,224	1,660	2,790	3,026	2,144	500	1,554	472
Others (below 500Mio)	949	2,581	303	409	1,090	-	-	-	154	-
<b>Private Placement</b>	<b>1,530</b>	<b>12,682</b>	<b>8,342</b>	<b>4,499</b>	<b>2,873</b>	<b>2,965</b>	<b>2,393</b>	<b>3,420</b>	<b>1,372</b>	<b>472</b>
<b>Total</b>	<b>2,478</b>	<b>33,484</b>	<b>15,868</b>	<b>13,253</b>	<b>10,004</b>	<b>11,382</b>	<b>7,351</b>	<b>11,075</b>	<b>9,511</b>	<b>4,594</b>
Denominated in EURO	-	10,243	4,112	7,060	4,705	4,445	4,885	5,736	4,955	-
Denominated in domestic currency	-	8,427	1,250	1,359	34	2,227	1,473	2,004	524	944
Denominated in other currencies	2,478	14,814	10,506	4,834	5,265	4,710	993	3,335	4,032	3,650
<b>Total</b>	<b>2,478</b>	<b>33,484</b>	<b>15,868</b>	<b>13,253</b>	<b>10,004</b>	<b>11,382</b>	<b>7,351</b>	<b>11,075</b>	<b>9,511</b>	<b>4,594</b>
Hard Bullet	2,478	27,945	349	1,125	2,250	100	-	-	-	-
Soft Bullet	-	5,539	15,519	12,128	7,754	11,282	6,851	10,995	9,011	4,122
Conditional Pass Through	-	-	-	-	-	-	500	-	500	472
<b>Total</b>	<b>2,478</b>	<b>33,484</b>	<b>15,868</b>	<b>13,253</b>	<b>10,004</b>	<b>11,382</b>	<b>7,351</b>	<b>10,995</b>	<b>9,511</b>	<b>4,594</b>
Issuance fixed coupon	2,478	26,462	14,369	12,195	9,245	9,453	6,255	9,466	8,518	1,426
Issuance floating coupon	-	7,022	1,500	1,058	759	1,929	1,096	1,609	993	3,168
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,478</b>	<b>33,484</b>	<b>15,868</b>	<b>13,253</b>	<b>10,004</b>	<b>11,382</b>	<b>7,351</b>	<b>11,075</b>	<b>9,511</b>	<b>4,594</b>
<b>Number of New Issuers</b>	<b>3</b>	<b>2</b>	-	-	-	<b>1</b>	<b>1</b>	<b>1</b>	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Source: Westpac Institutional Bank, ECBC

## 5.2.4 AUSTRIA

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Outstanding										
Public Sector	25,116	25,831	23,682	19,279	17,620	17,155	17,590	16,926	16,574	18,348
Mortgage	17,174	17,010	18,854	22,450	27,345	30,894	31,915	42,001	49,124	59,601
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>42,290</b>	<b>42,841</b>	<b>42,536</b>	<b>41,729</b>	<b>44,965</b>	<b>48,049</b>	<b>49,505</b>	<b>58,928</b>	<b>65,699</b>	<b>77,949</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	300	300
Public Placement										
Benchmark (1bn and above)	6,000	7,087	5,000	3,000	4,087	3,000	3,000	4,000	4,000	4,000
Benchmark (500mio - below 1bn)	9,915	11,328	12,870	13,050	14,550	16,800	20,050	23,100	27,192	29,500
Others (below 500Mio)	5,821	5,897	87	-	600	600	1,003	1,761	2,695	2,280
Private Placement	20,554	18,529	24,579	25,679	25,728	27,649	25,452	30,067	31,812	42,169
<b>Total</b>	<b>42,290</b>	<b>42,841</b>	<b>42,536</b>	<b>41,729</b>	<b>44,965</b>	<b>48,049</b>	<b>49,505</b>	<b>58,928</b>	<b>65,699</b>	<b>77,950</b>
Denominated in EURO	37,576	39,068	39,184	39,287	43,065	46,119	48,444	57,742	64,766	77,255
Denominated in domestic currency	-	-	-	-	-	-	-	1	-	-
Denominated in other currencies	4,714	3,773	3,352	2,442	1,900	1,930	1,061	1,185	932	695
<b>Total</b>	<b>42,290</b>	<b>42,841</b>	<b>42,536</b>	<b>41,729</b>	<b>44,965</b>	<b>48,049</b>	<b>49,505</b>	<b>58,928</b>	<b>65,699</b>	<b>77,950</b>
Hard Bullet	42,290	42,841	42,536	41,729	44,715	47,769	49,315	55,848	59,074	63,991
Soft Bullet	-	-	-	-	-	-	-	2,800	6,161	13,654
Conditional Pass Through	-	-	-	-	250	280	190	280	463	305
<b>Total</b>	<b>42,290</b>	<b>42,841</b>	<b>42,536</b>	<b>41,729</b>	<b>44,965</b>	<b>48,049</b>	<b>49,505</b>	<b>58,928</b>	<b>65,699</b>	<b>77,949</b>
Outstanding fixed coupon	32,275	32,696	34,793	29,680	31,611	47,769	33,794	40,256	48,777	50,348
Outstanding floating coupon	7,650	7,750	7,342	12,049	12,720	-	15,200	17,169	16,708	27,437
Outstanding other	2,364	2,395	402	-	634	280	511	1,503	214	164
<b>Total</b>	<b>42,290</b>	<b>42,841</b>	<b>42,536</b>	<b>41,729</b>	<b>44,965</b>	<b>48,049</b>	<b>49,505</b>	<b>58,928</b>	<b>65,699</b>	<b>77,949</b>
Number of Programmes	n.a.	n.a.	39	45	48	48	48	49	46	46
<b>Number of Issuers</b>	24	26	27	28	27	26	26	27	27	26
<b>Of which, Sustainable Issuers</b>	n.a.	1	1							
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Issuance										
Public Sector	7,114	6,882	3,373	5,146	3,177	2,355	3,115	2,040	1,833	6,515
Mortgage	3,664	3,805	6,093	7,111	5,457	7,181	3,165	11,007	11,228	20,587
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>10,778</b>	<b>10,687</b>	<b>9,466</b>	<b>12,257</b>	<b>8,634</b>	<b>9,536</b>	<b>6,280</b>	<b>13,047</b>	<b>13,061</b>	<b>27,102</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Public Placement										
Benchmark (1bn and above)	3,000	1,000	-	-	-	-	-	1,000	-	-
Benchmark (500mio - below 1bn)	2,750	2,500	3,800	3,000	4,000	2,750	2,750	5,000	7,000	5,000
Others (below 500Mio)	321	318	-	-	327	390	550	605	315	280
Private Placement	4,707	6,869	5,666	9,256	4,308	6,396	2,980	6,441	5,746	21,822
<b>Total</b>	<b>10,778</b>	<b>10,687</b>	<b>9,466</b>	<b>12,256</b>	<b>8,635</b>	<b>9,536</b>	<b>6,280</b>	<b>13,047</b>	<b>13,061</b>	<b>27,102</b>
Denominated in EURO	10,008	10,447	9,466	12,256	8,635	9,536	6,280	12,935	13,061	27,102
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	770	240	-	-	-	-	-	112	-	-
<b>Total</b>	<b>10,778</b>	<b>10,687</b>	<b>9,466</b>	<b>12,256</b>	<b>8,635</b>	<b>9,536</b>	<b>6,280</b>	<b>13,047</b>	<b>13,061</b>	<b>27,102</b>
Hard Bullet	10,778	10,687	9,466	12,256	8,385	9,506	6,280	10,207	9,911	17,796
Soft Bullet	-	-	-	-	-	-	-	2,800	3,110	9,141
Conditional Pass Through	-	-	-	-	250	30	-	40	40	165
<b>Total</b>	<b>10,778</b>	<b>10,687</b>	<b>9,466</b>	<b>12,256</b>	<b>8,635</b>	<b>9,536</b>	<b>6,280</b>	<b>13,047</b>	<b>13,061</b>	<b>27,102</b>
Issuance fixed coupon	5,922	8,155	6,609	4,671	5,317	9,506	4,164	8,481	8,279	11,834
Issuance floating coupon	4,561	2,201	2,812	7,346	3,304	-	2,083	4,264	4,782	15,268
Issuance other	295	331	45	239	13	30	34	301	-	-
<b>Total</b>	<b>10,778</b>	<b>10,687</b>	<b>9,466</b>	<b>12,256</b>	<b>8,634</b>	<b>9,536</b>	<b>6,280</b>	<b>13,047</b>	<b>13,061</b>	<b>27,102</b>
<b>Number of New Issuers</b>	1	2	1	1	1	-	-	1	1	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1

## 5.2.5 BELGIUM

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	n.a	-	-	1,750	1,800	2,300	2,300	2,461	2,461	2,461
Mortgage	n.a	2,590	8,188	10,575	15,105	16,700	15,250	20,092	23,637	41,062
Ships	n.a	-	-	-	-	-	-	-	-	-
Others	n.a	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>n.a</b>	<b>2,590</b>	<b>8,188</b>	<b>12,325</b>	<b>16,905</b>	<b>19,000</b>	<b>17,550</b>	<b>22,553</b>	<b>26,098</b>	<b>43,523</b>
<b>Of which, total Sustainable CB</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a	2,500	4,500	5,750	9,750	11,000	8,500	9,750	9,750	11,000
Benchmark (500mio - below 1bn)	n.a	-	2,500	5,175	5,175	5,925	6,925	10,175	8,825	8,500
Others (below 500Mio)	n.a	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>n.a</b>	<b>90</b>	<b>1,188</b>	<b>1,400</b>	<b>1,980</b>	<b>2,075</b>	<b>2,125</b>	<b>2,628</b>	<b>7,523</b>	<b>24,023</b>
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>8,188</b>	<b>12,325</b>	<b>16,905</b>	<b>19,000</b>	<b>17,550</b>	<b>22,553</b>	<b>26,098</b>	<b>43,523</b>
Denominated in EURO	n.a	2,590	8,188	12,325	16,905	19,000	17,550	22,553	26,098	43,523
Denominated in domestic currency	n.a	-	-	-	-	-	-	-	-	-
Denominated in other currencies	n.a	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>8,188</b>	<b>12,325</b>	<b>16,905</b>	<b>19,000</b>	<b>17,550</b>	<b>22,553</b>	<b>26,098</b>	<b>43,523</b>
Hard Bullet	n.a	-	-	-	-	-	-	-	-	-
Soft Bullet	n.a	2,590	8,188	12,325	16,905	19,000	17,550	22,553	26,098	43,523
Conditional Pass Through	n.a	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>8,188</b>	<b>12,325</b>	<b>16,905</b>	<b>19,000</b>	<b>17,550</b>	<b>22,553</b>	<b>26,098</b>	<b>43,523</b>
Outstanding fixed coupon	n.a	2,590	8,188	12,185	16,765	18,860	17,410	22,413	25,998	43,423
Outstanding floating coupon	n.a	-	-	140	140	140	140	140	100	100
Outstanding other	n.a	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>8,188</b>	<b>12,325</b>	<b>16,905</b>	<b>19,000</b>	<b>17,550</b>	<b>22,553</b>	<b>26,098</b>	<b>43,523</b>
Number of Programmes	n.a	2	3	4	4	5	5	5	6	6
<b>Number of Issuers</b>	<b>n.a</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	n.a	-	-	1,750	50	500	-	161	500	-
Mortgage	n.a	2,590	5,598	2,387	4,530	2,345	1,050	5,842	5,000	19,250
Ships	n.a	-	-	-	-	-	-	-	-	-
Others	n.a	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>n.a</b>	<b>2,590</b>	<b>5,598</b>	<b>4,137</b>	<b>4,580</b>	<b>2,845</b>	<b>1,050</b>	<b>6,003</b>	<b>5,500</b>	<b>19,250</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a	2,500	2,000	1,250	4,000	1,250	-	2,250	-	2,250
Benchmark (500mio - below 1bn)	n.a	-	2,500	2,675	-	1,500	1,000	3,250	500	500
Others (below 500Mio)	n.a	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>n.a</b>	<b>90</b>	<b>1,098</b>	<b>212</b>	<b>580</b>	<b>95</b>	<b>50</b>	<b>503</b>	<b>5,000</b>	<b>16,500</b>
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>5,598</b>	<b>4,137</b>	<b>4,580</b>	<b>2,845</b>	<b>1,050</b>	<b>6,003</b>	<b>5,500</b>	<b>19,250</b>
Denominated in EURO	n.a	2,590	5,598	4,137	4,580	2,845	1,050	6,003	5,500	19,250
Denominated in domestic currency	n.a	-	-	-	-	-	-	-	-	-
Denominated in other currencies	n.a	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>5,598</b>	<b>4,137</b>	<b>4,580</b>	<b>2,845</b>	<b>1,050</b>	<b>6,003</b>	<b>5,500</b>	<b>19,250</b>
Hard Bullet	n.a	-	-	-	-	-	-	-	-	-
Soft Bullet	n.a	2,590	5,598	3,997	4,580	2,845	1,050	6,003	5,500	19,250
Conditional Pass Through	n.a	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>5,598</b>	<b>3,997</b>	<b>4,580</b>	<b>2,845</b>	<b>1,050</b>	<b>6,003</b>	<b>5,500</b>	<b>19,250</b>
Issuance fixed coupon	n.a	2,590	5,598	3,997	4,580	2,845	1,050	6,003	5,500	19,250
Issuance floating coupon	n.a	-	-	140	-	-	-	-	-	-
Issuance other	n.a	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a</b>	<b>2,590</b>	<b>5,598</b>	<b>4,137</b>	<b>4,580</b>	<b>2,845</b>	<b>1,050</b>	<b>6,003</b>	<b>5,500</b>	<b>19,250</b>
<b>Number of New Issuers</b>	<b>n.a</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Number of New Sustainable Issuers</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>	<b>n.a</b>

## 5.2.6 BRAZIL

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Outstanding</b>										
Public Sector	n.a.	-	-	-						
Mortgage	n.a.	454	2,487	3,199						
Ships	n.a.	-	-	-						
Others	n.a.	-	-	-						
<b>Total Outstanding</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,487</b>	<b>3,199</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Public Placement										
Benchmark (1bn and above)	n.a.	-	-	-						
Benchmark (500mio - below 1bn)	n.a.	-	-	-						
Others (below 500Mio)	n.a.	-	-	-						
Private Placement	n.a.	454	2,487	3,199						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,487</b>	<b>3,199</b>
Denominated in EURO	n.a.	-	-	-						
Denominated in domestic currency	n.a.	454	2,487	3,199						
Denominated in other currencies	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,487</b>	<b>3,199</b>
Hard Bullet	n.a.	454	2,487	3,199						
Soft Bullet	n.a.	-	-	-						
Conditional Pass Through	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,487</b>	<b>3,199</b>
Outstanding fixed coupon	n.a.	-	-	-						
Outstanding floating coupon	n.a.	454	2,487	3,199						
Outstanding other	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,487</b>	<b>3,199</b>
Number of Programmes	n.a.	4	7	7						
<b>Number of Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>4</b>	<b>3</b>	<b>3</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Issuance</b>										
Public Sector	n.a.	-	-	-						
Mortgage	n.a.	454	2,040	2,473						
Ships	n.a.	-	-	-						
Others	n.a.	-	-	-						
<b>Total Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,040</b>	<b>2,473</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>	<b>n.a.</b>								
Public Placement										
Benchmark (1bn and above)	n.a.	-	-	-						
Benchmark (500mio - below 1bn)	n.a.	-	-	-						
Others (below 500Mio)	n.a.	-	-	-						
Private Placement	n.a.	454	2,040	2,473						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,040</b>	<b>2,473</b>
Denominated in EURO	n.a.	-	-	-						
Denominated in domestic currency	n.a.	454	2,040	2,473						
Denominated in other currencies	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,040</b>	<b>2,473</b>
Hard Bullet	n.a.	454	2,040	2,473						
Soft Bullet	n.a.	-	-	-						
Conditional Pass Through	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,040</b>	<b>2,473</b>
Issuance fixed coupon	n.a.	-	-	-						
Issuance floating coupon	n.a.	454	2,040	2,473						
Issuance other	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>454</b>	<b>2,040</b>	<b>2,473</b>
<b>Number of New Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>4</b>	<b>-</b>	<b>-</b>
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>								

## 5.2.7 CANADA

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	38,610	49,121	50,459	64,836	85,759	100,830	93,095	107,496	113,016	168,195
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>38,610</b>	<b>49,121</b>	<b>50,459</b>	<b>64,836</b>	<b>85,759</b>	<b>100,830</b>	<b>93,095</b>	<b>107,496</b>	<b>113,016</b>	<b>168,195</b>
<b>Of which, total Sustainable CB</b>	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
<b>Public Placement</b>										
Benchmark (1bn and above)	34,009	43,495	45,372	59,481	76,749	84,273	77,075	88,943	93,697	86,559
Benchmark (500mio - below 1bn)	3,653	4,130	1,205	4,877	7,538	6,328	6,478	6,307	7,182	8,179
Others (below 500Mio)	948	1,496	3,882	478	571	1,728	1,183	1,899	553	625
<b>Private Placement</b>	-	-	-	-	901	8,500	8,360	10,347	11,584	72,832
<b>Total</b>	<b>38,610</b>	<b>49,121</b>	<b>50,459</b>	<b>64,836</b>	<b>85,759</b>	<b>100,830</b>	<b>93,095</b>	<b>107,496</b>	<b>113,016</b>	<b>168,195</b>
<b>Denominated in EURO</b>	<b>4,250</b>	<b>2,576</b>	<b>6,750</b>	<b>19,250</b>	<b>34,401</b>	<b>47,262</b>	<b>50,012</b>	<b>56,662</b>	<b>57,662</b>	<b>57,282</b>
<b>Denominated in domestic currency</b>	<b>2,043</b>	<b>2,055</b>	<b>1,840</b>	<b>1,387</b>	<b>2,183</b>	<b>5,498</b>	<b>5,187</b>	<b>6,376</b>	<b>6,302</b>	<b>63,487</b>
<b>Denominated in other currencies</b>	<b>32,317</b>	<b>44,490</b>	<b>41,869</b>	<b>44,200</b>	<b>49,175</b>	<b>48,070</b>	<b>37,897</b>	<b>44,458</b>	<b>49,051</b>	<b>47,425</b>
<b>Total</b>	<b>38,610</b>	<b>49,121</b>	<b>50,459</b>	<b>64,836</b>	<b>85,759</b>	<b>100,830</b>	<b>93,095</b>	<b>107,496</b>	<b>113,016</b>	<b>168,195</b>
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	38,610	49,121	50,459	64,836	85,759	100,830	93,095	107,496	113,016	168,195
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>38,610</b>	<b>49,121</b>	<b>50,459</b>	<b>64,836</b>	<b>85,759</b>	<b>100,830</b>	<b>93,095</b>	<b>107,496</b>	<b>113,016</b>	<b>168,195</b>
Outstanding fixed coupon	38,610	48,743	48,962	60,588	76,427	89,939	82,362	93,478	96,936	96,125
Outstanding floating coupon	-	378	1,497	4,249	9,332	10,891	10,734	14,019	16,080	72,069
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>38,610</b>	<b>49,121</b>	<b>50,459</b>	<b>64,836</b>	<b>85,759</b>	<b>100,830</b>	<b>93,095</b>	<b>107,497</b>	<b>113,016</b>	<b>168,195</b>
Number of Programmes	7	7	9	13	13	12	8	8	8	8
<b>Number of Issuers</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>Of which, Sustainable Issuers</b>	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	19,977	12,937	9,354	19,275	29,287	28,148	12,441	24,384	23,647	79,834
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>19,977</b>	<b>12,937</b>	<b>9,354</b>	<b>19,275</b>	<b>29,287</b>	<b>28,148</b>	<b>12,441</b>	<b>24,384</b>	<b>23,647</b>	<b>79,834</b>
<b>Of which, Sustainable CB Issuance</b>	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a
<b>Public Placement</b>										
Benchmark (1bn and above)	18,544	11,937	9,030	15,851	18,246	20,569	11,167	18,390	19,560	14,389
Benchmark (500mio - below 1bn)	1,433	834	324	1,155	2,051	2,850	648	3,352	2,000	1,845
Others (below 500Mio)	-	166	-	321	2,515	701	-	222	-	-
<b>Private Placement</b>	-	-	-	-	6,475	4,028	625	2,420	2,088	63,600
<b>Total</b>	<b>19,977</b>	<b>12,937</b>	<b>9,354</b>	<b>17,328</b>	<b>29,287</b>	<b>28,148</b>	<b>12,441</b>	<b>24,384</b>	<b>23,647</b>	<b>79,834</b>
Denominated in EURO	-	-	5,500	12,500	15,151	12,861	4,000	12,750	11,750	10,370
Denominated in domestic currency	832	-	-	-	1,455	3,172	-	1,762	856	59,010
Denominated in other currencies	19,145	12,937	3,854	6,775	12,681	12,115	8,441	9,871	11,041	10,454
<b>Total</b>	<b>19,977</b>	<b>12,937</b>	<b>9,354</b>	<b>19,275</b>	<b>29,287</b>	<b>28,148</b>	<b>12,441</b>	<b>24,383</b>	<b>23,647</b>	<b>79,834</b>
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	19,977	12,937	9,354	19,275	29,287	28,148	12,441	24,384	23,647	79,834
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>19,977</b>	<b>12,937</b>	<b>9,354</b>	<b>19,275</b>	<b>29,287</b>	<b>28,148</b>	<b>12,441</b>	<b>24,384</b>	<b>23,647</b>	<b>79,834</b>
Issuance fixed coupon	19,977	12,558	8,219	16,939	24,739	25,596	9,815	18,808	19,227	20,105
Issuance floating coupon	-	379	1,135	2,336	4,548	2,552	2,626	5,575	4,420	59,729
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>19,977</b>	<b>12,937</b>	<b>9,354</b>	<b>19,275</b>	<b>29,287</b>	<b>28,148</b>	<b>12,441</b>	<b>24,383</b>	<b>23,647</b>	<b>79,834</b>
<b>Number of New Issuers</b>	2	-	-	-	-	-	-	1	-	-
<b>Number of New Sustainable Issuers</b>	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a

Note: Outstanding and issuance amounts include registered (legislative) and non-registered covered bonds. For a breakdown, please refer to Figure [1] from the Canada chapter in 3.5 section of the Fact Book.

## 5.2.8 CYPRUS

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	5,200	4,550	1,000	1,000	650	650	650	650	650	650
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>5,200</b>	<b>4,550</b>	<b>1,000</b>	<b>1,000</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
Private Placement	5,200	4,550	1,000	1,000	650	650	650	650	650	650
<b>Total</b>	<b>5,200</b>	<b>4,550</b>	<b>1,000</b>	<b>1,000</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>
Denominated in EURO	5,200	4,550	1,000	1,000	650	650	650	650	650	650
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,200</b>	<b>4,550</b>	<b>1,000</b>	<b>1,000</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>
Hard Bullet	n.a.	n.a.	-	-	-	-	-	-	-	-
Soft Bullet	n.a.	n.a.	1,000	1,000	-	-	-	-	-	-
Conditional Pass Through	n.a.	n.a.	-	-	650	650	650	650	650	650
<b>Total</b>	n.a.	n.a.	1,000	1,000	650	650	650	650	650	650
Outstanding fixed coupon	-	-	-	-	-	-	-	-	-	-
Outstanding floating coupon	5,200	4,550	1,000	1,000	650	650	650	650	650	650
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,200</b>	<b>4,550</b>	<b>1,000</b>	<b>1,000</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>	<b>650</b>
Number of Programmes	n.a.	n.a.	1	1	1	1	1	1	1	1
<b>Number of Issuers</b>	2	2	1	1	1	1	1	1	1	1
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	5,200	-	-	-	-	-	-	-	-	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>5,200</b>	-	-	-	-	-	-	-	-	-
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
Private Placement	5,200	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,200</b>	-	-	-	-	-	-	-	-	-
Denominated in EURO	5,200	-	-	-	-	-	-	-	-	-
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,200</b>	-	-	-	-	-	-	-	-	-
Hard Bullet	n.a.	-	-	-	-	-	-	-	-	-
Soft Bullet	n.a.	-	-	-	-	-	-	-	-	-
Conditional Pass Through	n.a.	-	-	-	-	-	-	-	-	-
<b>Total</b>	n.a.	-	-	-	-	-	-	-	-	-
Issuance fixed coupon	-	-	-	-	-	-	-	-	-	-
Issuance floating coupon	5,200	-	-	-	-	-	-	-	-	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,200</b>	-	-	-	-	-	-	-	-	-
<b>Number of New Issuers</b>	2	-	-	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.9 CZECH REPUBLIC

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	8,546	9,056	10,355	11,106	11,656	13,060	15,522	13,757	14,168	18,185
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>8,546</b>	<b>9,056</b>	<b>10,355</b>	<b>11,106</b>	<b>11,656</b>	<b>13,060</b>	<b>15,522</b>	<b>13,757</b>	<b>14,168</b>	<b>18,185</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	700	-	-	-	-
Others (below 500Mio)	5,194	5,522	6,731	4,316	6,156	5,856	3,107	4,861	2,912	-
<b>Private Placement</b>	<b>3,352</b>	<b>3,534</b>	<b>3,624</b>	<b>6,790</b>	<b>5,500</b>	<b>6,504</b>	<b>12,415</b>	<b>8,896</b>	<b>11,255</b>	<b>18,185</b>
<b>Total</b>	<b>8,546</b>	<b>9,056</b>	<b>10,355</b>	<b>11,106</b>	<b>11,656</b>	<b>13,060</b>	<b>15,522</b>	<b>13,757</b>	<b>14,168</b>	<b>18,185</b>
Denominated in EURO	111	571	914	735	1,187	1,702	3,688	1,346	1,299	5,497
Denominated in domestic currency	8,435	8,485	9,441	10,371	10,469	11,358	11,834	12,411	12,868	12,688
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>8,546</b>	<b>9,056</b>	<b>10,355</b>	<b>11,106</b>	<b>11,656</b>	<b>13,060</b>	<b>15,522</b>	<b>13,757</b>	<b>14,168</b>	<b>18,185</b>
Hard Bullet	8,546	9,056	10,355	11,106	11,656	13,060	15,522	13,757	14,168	18,185
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>8,546</b>	<b>9,056</b>	<b>10,355</b>	<b>11,106</b>	<b>11,656</b>	<b>13,060</b>	<b>15,522</b>	<b>13,757</b>	<b>14,168</b>	<b>18,185</b>
Outstanding fixed coupon	3,740	3,280	6,110	5,279	6,101	7,386	10,591	9,334	9,938	10,413
Outstanding floating coupon	4,119	5,096	4,105	5,654	5,462	5,571	4,838	4,407	4,230	7,772
Outstanding other	687	680	140	173	93	103	93	16	-	-
<b>Total</b>	<b>8,546</b>	<b>9,056</b>	<b>10,355</b>	<b>11,106</b>	<b>11,656</b>	<b>13,060</b>	<b>15,522</b>	<b>13,758</b>	<b>14,168</b>	<b>18,185</b>
Number of Programmes	n.a.	n.a.	8	8	8	7	8	8	8	7
<b>Number of Issuers</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>7</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	770	1,309	1,791	2,188	2,729	1,693	4,074	2,573	1,516	6,412
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>770</b>	<b>1,309</b>	<b>1,791</b>	<b>2,188</b>	<b>2,729</b>	<b>1,693</b>	<b>4,074</b>	<b>2,573</b>	<b>1,516</b>	<b>6,412</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	711	742	622	369	1,138	387	376	187	-	-
Private Placement	59	567	1,169	1,819	1,591	1,306	3,698	2,386	1,516	6,412
<b>Total</b>	<b>770</b>	<b>1,309</b>	<b>1,791</b>	<b>2,188</b>	<b>2,729</b>	<b>1,693</b>	<b>4,074</b>	<b>2,573</b>	<b>1,516</b>	<b>6,412</b>
Denominated in EURO	-	500	886	286	623	200	2,318	500	7	4,501
Denominated in domestic currency	770	809	905	1,902	2,106	1,493	1,756	2,073	1,509	1,911
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>770</b>	<b>1,309</b>	<b>1,791</b>	<b>2,188</b>	<b>2,729</b>	<b>1,693</b>	<b>4,074</b>	<b>2,573</b>	<b>1,516</b>	<b>6,412</b>
Hard Bullet	770	1,309	1,791	2,188	2,729	1,693	4,074	2,573	1,516	6,412
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>770</b>	<b>1,309</b>	<b>1,791</b>	<b>2,188</b>	<b>2,729</b>	<b>1,693</b>	<b>4,074</b>	<b>2,573</b>	<b>1,516</b>	<b>6,412</b>
Issuance fixed coupon	378	484	1,717	2,013	2,090	1,551	4,035	2,442	1,478	2,354
Issuance floating coupon	169	745	74	136	639	142	39	131	38	4,058
Issuance other	223	80	-	39	-	-	-	-	-	-
<b>Total</b>	<b>770</b>	<b>1,309</b>	<b>1,791</b>	<b>2,188</b>	<b>2,729</b>	<b>1,693</b>	<b>4,074</b>	<b>2,573</b>	<b>1,516</b>	<b>6,412</b>
<b>Number of New Issuers</b>	-	-	-	-	-	-	1	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.10 DENMARK

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Outstanding										
Public Sector	-	-	-	-	-	-	-	4,375	10,864	12,872
Mortgage	345,529	359,560	359,646	369,978	377,903	389,200	393,447	396,246	402,432	419,031
Ships	5,999	6,325	5,514	5,013	5,221	4,744	4,947	5,370	6,090	5,680
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>351,528</b>	<b>365,885</b>	<b>365,160</b>	<b>374,991</b>	<b>383,124</b>	<b>393,944</b>	<b>398,394</b>	<b>405,991</b>	<b>419,386</b>	<b>437,583</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	3,488	3,897
Public Placement										
Benchmark (1bn and above)	n.a.	231,421	234,504	228,111	216,822	241,463	270,245	282,575	307,847	311,130
Benchmark (500mio - below 1bn)	n.a.	52,156	54,170	64,229	76,880	78,434	57,504	54,836	45,686	50,142
Others (below 500Mio)	n.a.	80,692	74,355	78,721	77,125	69,261	66,636	64,449	63,109	69,029
Private Placement	n.a.	1,616	2,131	3,931	12,297	4,786	4,009	4,131	2,743	7,282
<b>Total</b>	<b>351,528</b>	<b>365,885</b>	<b>365,160</b>	<b>374,991</b>	<b>383,124</b>	<b>393,944</b>	<b>398,394</b>	<b>405,991</b>	<b>419,386</b>	<b>437,583</b>
Denominated in EURO	43,753	46,451	40,856	38,682	36,934	38,481	30,805	27,290	24,439	29,009
Denominated in domestic currency	302,938	312,065	316,603	327,442	337,631	346,368	357,977	369,111	384,498	397,571
Denominated in other currencies	4,837	7,368	7,701	8,867	8,559	9,095	9,612	9,590	10,449	11,004
<b>Total</b>	<b>351,528</b>	<b>365,885</b>	<b>365,160</b>	<b>374,991</b>	<b>383,124</b>	<b>393,944</b>	<b>398,394</b>	<b>405,991</b>	<b>419,386</b>	<b>437,583</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	211,224	183,166	176,393	195,024	231,069
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	182,720	215,228	229,598	224,362	206,515
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>351,528</b>	<b>365,885</b>	<b>365,160</b>	<b>374,991</b>	<b>383,124</b>	<b>393,944</b>	<b>398,394</b>	<b>405,991</b>	<b>419,386</b>	<b>437,583</b>
Outstanding fixed coupon	275,092	285,754	284,483	285,721	285,004	287,779	293,255	298,456	314,483	333,477
Outstanding floating coupon	76,436	80,131	80,677	89,271	98,120	105,165	105,139	107,535	104,903	104,107
Outstanding other	-	-	-	-	-	1,000	-	-	-	-
<b>Total</b>	<b>351,528</b>	<b>365,885</b>	<b>365,160</b>	<b>374,991</b>	<b>383,124</b>	<b>393,944</b>	<b>398,394</b>	<b>405,991</b>	<b>419,386</b>	<b>437,583</b>
Number of Programmes	n.a.	n.a.	24	23	23	23	23	27	28	28
<b>Number of Issuers</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>7</b>
<b>Of which, Sustainable Issuers</b>	n.a.	2	-							
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Issuance										
Public Sector	-	-	-	-	-	-	-	4,382	6,377	2,469
Mortgage	145,147	185,845	149,989	154,310	163,050	130,329	123,205	113,441	165,208	124,013
Ships	121	1,474	458	399	955	883	2,524	1,183	1,713	1,042
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>145,268</b>	<b>187,319</b>	<b>150,447</b>	<b>154,709</b>	<b>164,005</b>	<b>131,212</b>	<b>125,729</b>	<b>119,006</b>	<b>173,298</b>	<b>127,524</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	3,488	409
Public Placement										
Benchmark (1bn and above)	n.a.	140,705	112,880	78,323	74,213	48,361	48,179	42,693	86,317	46,280
Benchmark (500mio - below 1bn)	n.a.	18,339	17,573	31,779	33,205	34,322	28,429	30,205	39,856	31,946
Others (below 500Mio)	n.a.	27,843	19,657	44,592	54,531	48,110	49,121	45,497	46,125	43,798
Private Placement	n.a.	432	337	15	2,056	419	-	611	1,000	5,500
<b>Total</b>	<b>145,268</b>	<b>187,319</b>	<b>150,447</b>	<b>154,709</b>	<b>164,005</b>	<b>131,212</b>	<b>125,729</b>	<b>119,006</b>	<b>173,298</b>	<b>127,524</b>
Denominated in EURO	25,415	25,074	23,553	15,412	11,390	8,865	8,594	7,821	5,466	7,803
Denominated in domestic currency	116,911	158,335	124,331	134,368	147,944	118,030	114,873	109,434	164,053	116,635
Denominated in other currencies	2,942	3,910	2,563	4,929	4,671	4,317	2,262	1,751	3,779	3,086
<b>Total</b>	<b>145,268</b>	<b>187,319</b>	<b>150,447</b>	<b>154,709</b>	<b>164,005</b>	<b>131,212</b>	<b>125,729</b>	<b>119,006</b>	<b>173,298</b>	<b>127,524</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	29,630	28,786	36,362	98,706	62,104
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	101,582	96,943	82,644	74,592	65,419
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>145,268</b>	<b>187,319</b>	<b>150,447</b>	<b>154,709</b>	<b>164,005</b>	<b>131,212</b>	<b>125,729</b>	<b>119,006</b>	<b>173,298</b>	<b>127,524</b>
Issuance fixed coupon	128,195	-	130,290	131,949	129,815	90,328	89,319	89,194	140,692	100,598
Issuance floating coupon	17,073	163,680	20,157	22,760	34,190	40,884	36,410	29,812	32,606	26,926
Issuance other	-	23,638	-	-	-	-	-	-	-	-
<b>Total</b>	<b>145,268</b>	<b>187,319</b>	<b>150,447</b>	<b>154,709</b>	<b>164,005</b>	<b>131,212</b>	<b>125,729</b>	<b>119,006</b>	<b>173,298</b>	<b>127,524</b>
<b>Number of New Issuers</b>	-	-	-	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Note: Since a large share of Danish mortgage covered bonds are tap-issued over a period of typically 3 years, Benchmark (1bn and above) issues and outstanding are defined as covered bond with more than EUR 1 bn in the year, the bond reach EUR 1 bn. The same way, Benchmark (500Mio - below 1bn) issues and outstanding are defined as covered bond with 500Mio - below 1bn euro in the year, the bond reach EUR 500 Mio, and at the same time does not exceed EUR 1 bn. The definition includes both covered bonds denominated in DKK and in EUR. Danish covered bonds denominated in euro and issued in a jurisdiction outside Denmark are included in the Danish data.

## 5.2.11 ESTONIA

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	n.a.	-								
Mortgage	n.a.	850								
Ships	n.a.	-								
Others	n.a.	-								
<b>Total Outstanding</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-								
Benchmark (500mio - below 1bn)	n.a.	500								
Others (below 500Mio)	n.a.	250								
<b>Private Placement</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>100</b>
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
Denominated in EURO	n.a.	850								
Denominated in domestic currency	n.a.	-								
Denominated in other currencies	n.a.	-								
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
Hard Bullet	n.a.	-								
Soft Bullet	n.a.	850								
Conditional Pass Through	n.a.	-								
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
Outstanding fixed coupon	n.a.	850								
Outstanding floating coupon	n.a.	-								
Outstanding other	n.a.	-								
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
Number of Programmes	n.a.	2								
<b>Number of Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>2</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	n.a.	-								
Mortgage	n.a.	850								
Ships	n.a.	-								
Others	n.a.	-								
<b>Total Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>									
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-								
Benchmark (500mio - below 1bn)	n.a.	500								
Others (below 500Mio)	n.a.	250								
<b>Private Placement</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>100</b>
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
Denominated in EURO	n.a.	850								
Denominated in domestic currency	n.a.	-								
Denominated in other currencies	n.a.	-								
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
Hard Bullet	n.a.	-								
Soft Bullet	n.a.	850								
Conditional Pass Through	n.a.	-								
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
Issuance fixed coupon	n.a.	850								
Issuance floating coupon	n.a.	-								
Issuance other	n.a.	-								
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>850</b>
<b>Number of New Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>2</b>
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>									

## 5.2.12 FINLAND

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	18,839	26,684	29,783	32,031	33,974	33,822	34,625	37,257	37,774	43,855
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>18,839</b>	<b>26,684</b>	<b>29,783</b>	<b>32,031</b>	<b>33,974</b>	<b>33,822</b>	<b>34,625</b>	<b>37,257</b>	<b>37,774</b>	<b>43,855</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	14,750	20,750	22,500	25,750	27,250	26,000	28,000	27,750	27,500	26,250
Benchmark (500mio - below 1bn)	2,200	2,200	2,200	2,100	2,070	2,000	2,500	4,000	4,500	4,500
Others (below 500Mio)	1,606	2,874	4,115	3,116	500	1,207	2,777	2,067	2,650	3,149
Private Placement	283	861	969	1,065	4,154	4,615	1,348	3,440	3,124	9,956
<b>Total</b>	<b>18,839</b>	<b>26,684</b>	<b>29,783</b>	<b>32,031</b>	<b>33,974</b>	<b>33,822</b>	<b>34,625</b>	<b>37,257</b>	<b>37,774</b>	<b>43,855</b>
Denominated in EURO	18,453	26,114	29,230	31,738	33,663	33,665	34,458	36,842	37,398	43,269
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	386	571	553	293	311	157	167	414	376	587
<b>Total</b>	<b>18,839</b>	<b>26,684</b>	<b>29,783</b>	<b>32,031</b>	<b>33,974</b>	<b>33,822</b>	<b>34,625</b>	<b>37,257</b>	<b>37,774</b>	<b>43,855</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	17,202	16,305	17,643	16,166	19,657
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	16,620	18,320	19,614	21,608	24,198
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>18,839</b>	<b>26,684</b>	<b>29,783</b>	<b>32,031</b>	<b>33,974</b>	<b>33,822</b>	<b>34,625</b>	<b>37,257</b>	<b>37,774</b>	<b>43,855</b>
Outstanding fixed coupon	17,863	23,247	26,425	28,665	30,476	30,996	32,995	35,584	36,342	35,428
Outstanding floating coupon	976	3,437	3,358	3,366	3,498	2,826	1,630	1,673	1,432	8,427
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>18,839</b>	<b>26,684</b>	<b>29,783</b>	<b>32,031</b>	<b>33,974</b>	<b>33,822</b>	<b>34,625</b>	<b>37,257</b>	<b>37,774</b>	<b>43,855</b>
Number of Programmes	n.a.	n.a.	8	9	9	8	9	9	9	9
<b>Number of Issuers</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>9</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>Of which, Sustainable Issuers</b>	n.a.	2								
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	9,964	9,368	3,771	6,469	7,425	4,679	5,550	5,650	6,650	11,199
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>9,964</b>	<b>9,368</b>	<b>3,771</b>	<b>6,469</b>	<b>7,425</b>	<b>4,679</b>	<b>5,550</b>	<b>5,650</b>	<b>6,650</b>	<b>11,199</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-
<b>Public Placement</b>										
Benchmark (1bn and above)	8,500	7,000	2,750	5,500	6,500	2,250	4,500	3,250	4,750	3,250
Benchmark (500mio - below 1bn)	600	-	500	500	500	500	500	2,000	1,000	-
Others (below 500Mio)	581	1,790	370	469	250	550	550	400	900	500
Private Placement	283	578	151	-	175	1,379	-	-	-	7,449
<b>Total</b>	<b>9,964</b>	<b>9,368</b>	<b>3,771</b>	<b>6,469</b>	<b>7,425</b>	<b>4,679</b>	<b>5,550</b>	<b>5,650</b>	<b>6,650</b>	<b>11,199</b>
Denominated in EURO	9,578	9,186	3,771	6,283	7,425	4,679	5,550	5,650	6,650	11,000
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	386	182	-	186	-	-	-	-	-	199
<b>Total</b>	<b>9,964</b>	<b>9,368</b>	<b>3,771</b>	<b>6,469</b>	<b>7,425</b>	<b>4,679</b>	<b>5,550</b>	<b>5,650</b>	<b>6,650</b>	<b>11,199</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	1,279	1,500	3,000	2,500	6,000
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	3,400	4,050	2,650	4,150	5,199
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>9,964</b>	<b>9,368</b>	<b>3,771</b>	<b>6,469</b>	<b>7,425</b>	<b>4,679</b>	<b>5,550</b>	<b>5,650</b>	<b>6,650</b>	<b>11,199</b>
Issuance fixed coupon	9,613	6,783	3,621	6,170	7,410	3,679	5,550	5,650	6,650	4,200
Issuance floating coupon	351	2,585	150	299	15	1,000	-	-	-	6,999
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>9,964</b>	<b>9,368</b>	<b>3,771</b>	<b>6,469</b>	<b>7,425</b>	<b>4,679</b>	<b>5,550</b>	<b>5,650</b>	<b>6,650</b>	<b>11,199</b>
<b>Number of New Issuers</b>	-	1	1	-	-	2	1	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-

## 5.2.13 FRANCE

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Outstanding</b>										
Public Sector	77,835	72,033	68,349	67,696	66,717	64,228	64,115	64,482	65,079	68,123
Mortgage	198,395	208,297	202,822	188,925	188,669	177,813	185,820	194,227	209,294	221,821
Ships	89,768	81,560	73,015	68,896	67,685	66,587	62,289	62,602	59,870	55,824
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>365,998</b>	<b>361,890</b>	<b>344,186</b>	<b>325,517</b>	<b>323,072</b>	<b>308,627</b>	<b>312,224</b>	<b>321,311</b>	<b>334,243</b>	<b>345,767</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	4,000	7,250
Public Placement										
Benchmark (1bn and above)	n.a.	241,775	209,885	208,784	201,947	188,508	181,069	180,484	173,151	169,393
Benchmark (500mio - below 1bn)	n.a.	4,949	23,992	14,788	17,128	18,858	25,765	32,431	42,756	46,626
Others (below 500Mio)	n.a.	36,595	32,253	7,865	10,121	5,427	4,806	4,804	13,257	10,190
Private Placement	n.a.	78,570	78,055	94,081	93,876	95,836	100,584	103,593	105,079	119,558
<b>Total</b>	<b>365,998</b>	<b>361,890</b>	<b>344,186</b>	<b>325,517</b>	<b>323,072</b>	<b>308,627</b>	<b>312,224</b>	<b>321,311</b>	<b>334,243</b>	<b>345,767</b>
Denominated in EURO	327,874	331,212	316,562	303,435	303,710	292,233	302,504	314,880	327,567	339,805
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	38,123	30,678	27,624	22,083	19,362	16,395	9,720	6,431	6,676	5,962
<b>Total</b>	<b>365,998</b>	<b>361,890</b>	<b>344,186</b>	<b>325,517</b>	<b>323,072</b>	<b>308,627</b>	<b>312,224</b>	<b>321,311</b>	<b>334,243</b>	<b>345,767</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	246,233	225,423	216,228	199,215	177,940
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	62,394	86,801	105,083	135,028	167,827
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>365,998</b>	<b>361,890</b>	<b>344,186</b>	<b>325,517</b>	<b>323,072</b>	<b>308,627</b>	<b>312,224</b>	<b>321,311</b>	<b>334,243</b>	<b>345,767</b>
Outstanding fixed coupon	284,266	297,009	287,504	279,149	295,639	284,807	289,169	275,856	315,135	327,217
Outstanding floating coupon	75,068	47,805	43,002	32,725	16,640	12,690	14,493	8,536	10,699	12,593
Outstanding other	6,665	17,076	13,680	13,643	10,792	11,131	8,562	36,920	8,410	5,958
<b>Total</b>	<b>365,998</b>	<b>361,890</b>	<b>344,186</b>	<b>325,517</b>	<b>323,072</b>	<b>308,627</b>	<b>312,224</b>	<b>321,311</b>	<b>334,243</b>	<b>345,767</b>
Number of Programmes	n.a.	n.a.	23	21	19	19	19	18	19	17
<b>Number of Issuers</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>21</b>	<b>19</b>	<b>16</b>	<b>19</b>	<b>18</b>	<b>19</b>	<b>17</b>
<b>Of which, Sustainable Issuers</b>	n.a.	3	4							
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Issuance</b>										
Public Sector	8,851	1,150	4,179	5,318	6,785	6,441	8,681	5,483	8,800	9,047
Mortgage	84,416	49,260	19,637	14,483	29,705	19,482	28,347	27,108	37,050	39,770
Ships	8,719	8,101	3,498	6,149	8,395	5,366	6,455	5,218	3,000	3,025
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>101,986</b>	<b>58,511</b>	<b>27,314</b>	<b>25,950</b>	<b>44,885</b>	<b>31,289</b>	<b>43,483</b>	<b>37,809</b>	<b>48,850</b>	<b>51,842</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	4,000	3,250
Public Placement										
Benchmark (1bn and above)	n.a.	25,672	12,250	15,250	14,500	17,050	18,745	15,800	19,710	21,250
Benchmark (500mio - below 1bn)	n.a.	1,185	5,550	4,250	5,650	4,250	7,800	9,950	7,460	7,100
Others (below 500Mio)	n.a.	4,830	1,755	496	2,431	-	421	-	230	150
Private Placement	n.a.	26,824	7,759	5,955	22,304	9,989	16,517	12,059	21,450	23,342
<b>Total</b>	<b>101,986</b>	<b>58,511</b>	<b>27,314</b>	<b>25,951</b>	<b>44,885</b>	<b>31,289</b>	<b>43,483</b>	<b>37,809</b>	<b>48,850</b>	<b>51,842</b>
Denominated in EURO	96,020	55,851	26,596	25,455	44,562	31,102	43,312	37,809	48,620	51,842
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	5,967	2,660	718	495	323	187	171	-	230	-
<b>Total</b>	<b>101,986</b>	<b>58,511</b>	<b>27,314</b>	<b>25,950</b>	<b>44,885</b>	<b>31,289</b>	<b>43,483</b>	<b>37,809</b>	<b>48,850</b>	<b>51,842</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	11,272	12,966	10,791	10,035	11,982
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	20,017	30,517	27,018	38,815	39,860
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>101,986</b>	<b>58,511</b>	<b>27,314</b>	<b>25,950</b>	<b>44,885</b>	<b>31,289</b>	<b>43,483</b>	<b>37,809</b>	<b>48,850</b>	<b>51,842</b>
Issuance fixed coupon	67,612	36,003	23,556	24,027	43,642	30,395	40,208	35,821	47,280	46,745
Issuance floating coupon	34,286	22,368	3,558	1,549	1,243	840	3,275	1,000	1,570	5,000
Issuance other	89	140	200	374	-	54	-	988	-	97
<b>Total</b>	<b>101,986</b>	<b>58,511</b>	<b>27,314</b>	<b>25,950</b>	<b>44,885</b>	<b>31,289</b>	<b>43,483</b>	<b>37,809</b>	<b>48,850</b>	<b>51,842</b>
<b>Number of New Issuers</b>	3	1	1	-	-	-	-	-	1	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	3	1

Note: The "Mixed assets" category refers to covered bonds that are backed by a mix of public sector assets, mortgage loans. The bonds (outstanding and issuance) have been allocated equally between mortgage and public sector categories in the total (5.2.1 section of the Fact Book)

## 5.2.14 GERMANY

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Outstanding										
Public Sector	355,673	301,125	245,961	206,535	180,524	161,871	148,081	134,717	121,849	123,425
Mortgage	223,676	215,999	199,900	189,936	197,726	207,338	215,199	233,372	239,570	246,311
Ships	6,641	7,246	5,792	4,811	5,158	3,551	2,420	1,154	2,724	2,212
Others	-	506	506	1,006	1,006	1,006	505	505	-	-
<b>Total Outstanding</b>	<b>585,990</b>	<b>524,876</b>	<b>452,159</b>	<b>402,288</b>	<b>384,414</b>	<b>373,766</b>	<b>366,205</b>	<b>369,747</b>	<b>364,143</b>	<b>371,947</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5,675	6,618
Public Placement										
Benchmark (1bn and above)	141,393	112,869	81,030	55,608	48,462	34,635	32,235	37,110	40,625	46,625
Benchmark (500mio - below 1bn)	28,704	36,862	46,798	56,987	69,883	85,807	90,494	102,175	116,688	112,963
Others (below 500Mio)	43,634	75,244	63,864	60,229	43,828	41,913	40,133	51,073	29,655	24,586
Private Placement	372,259	299,901	260,467	229,464	222,241	211,411	203,343	179,390	177,175	187,773
<b>Total</b>	<b>585,990</b>	<b>524,876</b>	<b>452,159</b>	<b>402,288</b>	<b>384,414</b>	<b>373,766</b>	<b>366,205</b>	<b>369,747</b>	<b>364,143</b>	<b>371,947</b>
Denominated in EURO	565,529	506,639	437,737	387,772	370,419	357,884	350,976	357,184	349,229	361,460
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	20,461	18,237	14,422	14,516	13,995	15,882	15,229	12,563	14,914	10,487
<b>Total</b>	<b>585,990</b>	<b>524,876</b>	<b>452,159</b>	<b>402,288</b>	<b>384,414</b>	<b>373,766</b>	<b>366,205</b>	<b>369,747</b>	<b>364,143</b>	<b>371,947</b>
Hard Bullet	585,990	524,876	452,159	402,288	384,414	373,766	366,205	369,747	364,143	371,947
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>585,990</b>	<b>524,876</b>	<b>452,159</b>	<b>402,288</b>	<b>384,414</b>	<b>373,766</b>	<b>366,205</b>	<b>369,747</b>	<b>364,143</b>	<b>371,947</b>
Outstanding fixed coupon	493,983	433,787	375,537	339,705	334,264	328,143	326,595	342,427	336,220	330,063
Outstanding floating coupon	74,340	76,840	59,170	51,956	44,359	34,657	33,844	24,557	20,721	38,753
Outstanding other	17,667	14,249	17,452	10,627	5,791	10,966	5,766	2,764	7,201	3,131
<b>Total</b>	<b>585,990</b>	<b>524,876</b>	<b>452,159</b>	<b>402,288</b>	<b>384,414</b>	<b>373,766</b>	<b>366,205</b>	<b>369,747</b>	<b>364,143</b>	<b>371,947</b>
Number of Programmes	n.a.	n.a.	116	121	121	120	117	120	120	120
<b>Number of Issuers</b>	<b>66</b>	<b>71</b>	<b>72</b>	<b>78</b>	<b>79</b>	<b>78</b>	<b>78</b>	<b>78</b>	<b>78</b>	<b>80</b>
<b>Of which, Sustainable Issuers</b>	n.a.	5	5							
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Issuance										
Public Sector	30,990	14,341	15,611	15,334	15,544	10,364	11,935	7,230	11,236	19,080
Mortgage	40,911	38,540	33,583	29,145	40,369	35,070	36,841	43,142	41,973	40,248
Ships	895	3,169	303	920	2,208	-	-	10	1,760	450
Others	-	506	-	500	-	-	-	-	-	-
<b>Total Issuance</b>	<b>72,796</b>	<b>56,556</b>	<b>49,497</b>	<b>45,899</b>	<b>58,121</b>	<b>45,434</b>	<b>48,776</b>	<b>50,382</b>	<b>54,969</b>	<b>59,778</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,675	1,000
Public Placement										
Benchmark (1bn and above)	21,406	4,008	2,125	5,500	5,500	5,250	4,250	9,000	10,000	11,250
Benchmark (500mio - below 1bn)	5,319	11,879	15,725	14,100	22,201	20,469	15,882	22,441	20,422	11,546
Others (below 500Mio)	15,632	11,816	11,816	9,045	11,263	6,492	11,758	6,850	8,575	6,474
Private Placement	30,439	28,853	19,831	17,254	19,157	13,223	16,886	12,091	15,972	30,508
<b>Total</b>	<b>72,796</b>	<b>56,556</b>	<b>49,497</b>	<b>45,899</b>	<b>58,121</b>	<b>45,434</b>	<b>48,776</b>	<b>50,382</b>	<b>54,969</b>	<b>59,778</b>
Denominated in EURO	68,585	52,608	45,757	42,811	55,470	40,754	42,750	45,610	48,970	58,704
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	4,211	3,948	3,740	3,088	2,651	4,680	6,026	4,772	5,998	1,074
<b>Total</b>	<b>72,796</b>	<b>56,556</b>	<b>49,497</b>	<b>45,899</b>	<b>58,121</b>	<b>45,434</b>	<b>48,776</b>	<b>50,382</b>	<b>54,969</b>	<b>59,778</b>
Hard Bullet	72,796	56,556	49,497	45,899	58,121	45,434	48,776	50,382	54,969	59,778
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>72,796</b>	<b>56,556</b>	<b>49,497</b>	<b>45,899</b>	<b>58,121</b>	<b>45,434</b>	<b>48,776</b>	<b>50,382</b>	<b>54,969</b>	<b>59,778</b>
Issuance fixed coupon	54,023	32,274	37,878	36,917	50,618	43,888	41,490	45,116	49,340	33,489
Issuance floating coupon	16,692	23,702	11,302	8,755	6,743	1,303	7,100	5,241	5,617	26,259
Issuance other	2,081	580	317	227	760	243	186	25	12	30
<b>Total</b>	<b>72,796</b>	<b>56,556</b>	<b>49,497</b>	<b>45,899</b>	<b>58,121</b>	<b>45,434</b>	<b>48,776</b>	<b>50,382</b>	<b>54,969</b>	<b>59,778</b>
<b>Number of New Issuers</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-	-

## 5.2.15 GREECE

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	19,750	18,046	16,546	14,546	4,961	4,485	10,100	13,840	13,190	10,890
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>19,750</b>	<b>18,046</b>	<b>16,546</b>	<b>14,546</b>	<b>4,961</b>	<b>4,485</b>	<b>10,100</b>	<b>13,840</b>	<b>13,190</b>	<b>10,890</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	1,500	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	846	846	846	846	-	1,250	1,750	1,750	500
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>18,250</b>	<b>17,200</b>	<b>15,700</b>	<b>13,700</b>	<b>4,115</b>	<b>4,485</b>	<b>8,850</b>	<b>12,090</b>	<b>11,440</b>	<b>10,390</b>
<b>Total</b>	<b>19,750</b>	<b>18,046</b>	<b>16,546</b>	<b>14,546</b>	<b>4,961</b>	<b>4,485</b>	<b>10,100</b>	<b>13,840</b>	<b>13,190</b>	<b>10,890</b>
Denominated in EURO	19,750	18,046	16,546	14,546	4,961	4,485	10,100	13,840	13,190	10,890
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>19,750</b>	<b>18,046</b>	<b>16,546</b>	<b>14,546</b>	<b>4,961</b>	<b>4,485</b>	<b>10,100</b>	<b>13,840</b>	<b>13,190</b>	<b>10,890</b>
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	19,750	18,046	16,546	5,546	896	3,725	6,350	3,990	1,840	1,840
Conditional Pass Through	-	-	-	9,000	4,065	760	3,750	9,850	11,350	9,050
<b>Total</b>	<b>19,750</b>	<b>18,046</b>	<b>16,546</b>	<b>14,546</b>	<b>4,961</b>	<b>4,485</b>	<b>10,100</b>	<b>13,840</b>	<b>13,190</b>	<b>10,890</b>
Outstanding fixed coupon	1,500	846	846	846	846	-	1,250	2,550	2,350	700
Outstanding floating coupon	18,250	17,200	15,700	13,700	4,115	4,485	8,850	11,290	10,840	10,190
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>19,750</b>	<b>18,046</b>	<b>16,546</b>	<b>14,546</b>	<b>4,961</b>	<b>4,485</b>	<b>10,100</b>	<b>13,840</b>	<b>13,190</b>	<b>10,890</b>
Number of Programmes	n.a.	n.a.	6	6	6	6	7	8	8	7
<b>Number of Issuers</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	5,000	-	-	750	-	3,675	7,375	6,650	200	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>5,000</b>	-	-	<b>750</b>	-	<b>3,675</b>	<b>7,375</b>	<b>6,650</b>	<b>200</b>	-
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	1,250	500	-	-
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>5,000</b>	-	-	<b>750</b>	-	<b>3,675</b>	<b>6,125</b>	<b>6,150</b>	<b>200</b>	-
<b>Total</b>	<b>5,000</b>	-	-	<b>750</b>	-	<b>3,675</b>	<b>7,375</b>	<b>6,650</b>	<b>200</b>	-
Denominated in EURO	5,000	-	-	750	-	3,675	7,375	6,650	200	-
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,000</b>	-	-	<b>750</b>	-	<b>3,675</b>	<b>7,375</b>	<b>6,650</b>	<b>200</b>	-
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	5,000	-	-	-	-	3,675	2,625	2,050	-	-
Conditional Pass Through	-	-	-	750	-	-	4,750	4,600	200	-
<b>Total</b>	<b>5,000</b>	-	-	<b>750</b>	-	<b>3,675</b>	<b>7,375</b>	<b>6,650</b>	<b>200</b>	-
Issuance fixed coupon	-	-	-	-	-	-	1,250	1,300	-	-
Issuance floating coupon	5,000	-	-	750	-	3,675	6,125	5,350	200	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,000</b>	-	-	<b>750</b>	-	<b>3,675</b>	<b>7,375</b>	<b>6,650</b>	<b>200</b>	-
<b>Number of New Issuers</b>	<b>1</b>	-	-	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.16 HUNGARY

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	5,175	4,958	4,016	3,272	3,022	2,189	2,641	3,762	3,868	4,526
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>5,175</b>	<b>4,958</b>	<b>4,016</b>	<b>3,272</b>	<b>3,022</b>	<b>2,189</b>	<b>2,641</b>	<b>3,762</b>	<b>3,868</b>	<b>4,526</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	2,290	-	-	-	-	-	-	-	-
Others (below 500Mio)	n.a.	865	20	-	19	612	71	543	3,363	3,549
Private Placement	n.a.	1,803	3,996	3,272	3,003	1,577	2,569	3,219	504	977
<b>Total</b>	<b>5,175</b>	<b>4,958</b>	<b>4,016</b>	<b>3,272</b>	<b>3,022</b>	<b>2,189</b>	<b>2,641</b>	<b>3,762</b>	<b>3,868</b>	<b>4,526</b>
Denominated in EURO	2,167	1,863	1,616	1,116	1,036	537	35	25	17	16
Denominated in domestic currency	2,934	3,059	2,354	2,154	1,986	1,652	2,605	3,737	3,850	4,510
Denominated in other currencies	74	36	46	2	-	-	-	-	-	-
<b>Total</b>	<b>5,175</b>	<b>4,958</b>	<b>4,016</b>	<b>3,272</b>	<b>3,022</b>	<b>2,189</b>	<b>2,641</b>	<b>3,762</b>	<b>3,868</b>	<b>4,526</b>
Hard Bullet	5,175	4,958	4,016	3,272	3,022	2,189	2,641	3,762	3,868	4,526
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>5,175</b>	<b>4,958</b>	<b>4,016</b>	<b>3,272</b>	<b>3,022</b>	<b>2,189</b>	<b>2,641</b>	<b>3,762</b>	<b>3,868</b>	<b>4,526</b>
Outstanding fixed coupon	3,195	3,318	2,650	2,205	1,699	1,387	1,814	3,275	3,210	3,972
Outstanding floating coupon	1,980	1,640	1,366	1,067	1,323	802	827	449	658	555
Outstanding other	-	-	-	-	-	-	-	38	-	-
<b>Total</b>	<b>5,175</b>	<b>4,958</b>	<b>4,016</b>	<b>3,272</b>	<b>3,022</b>	<b>2,189</b>	<b>2,641</b>	<b>3,762</b>	<b>3,868</b>	<b>4,526</b>
Number of Programmes	n.a.	n.a.	3	3	4	4	5	5	5	5
<b>Number of Issuers</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Of which, Sustainable Issuers</b>	n.a.									
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	2,264	1,140	559	91	888	625	1,166	2,004	487	1,555
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>2,264</b>	<b>1,140</b>	<b>559</b>	<b>91</b>	<b>888</b>	<b>625</b>	<b>1,166</b>	<b>2,004</b>	<b>487</b>	<b>1,555</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	510	500	-	-	-	-	-	-	-
Others (below 500Mio)	n.a.	630	57	-	293	16	505	453	1,203	1,203
Private Placement	n.a.	-	2	91	888	333	1,150	1,499	33	353
<b>Total</b>	<b>2,264</b>	<b>1,140</b>	<b>559</b>	<b>91</b>	<b>888</b>	<b>626</b>	<b>1,166</b>	<b>2,004</b>	<b>487</b>	<b>1,555</b>
Denominated in EURO	1,600	510	515	-	500	5	-	-	-	-
Denominated in domestic currency	565	630	42	91	388	620	1,166	2,004	487	1,555
Denominated in other currencies	99	-	2	-	-	-	-	-	-	-
<b>Total</b>	<b>2,264</b>	<b>1,140</b>	<b>559</b>	<b>91</b>	<b>888</b>	<b>625</b>	<b>1,166</b>	<b>2,004</b>	<b>487</b>	<b>1,555</b>
Hard Bullet	2,264	1,140	559	91	888	625	1,166	2,004	487	1,555
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,264</b>	<b>1,140</b>	<b>559</b>	<b>91</b>	<b>888</b>	<b>625</b>	<b>1,166</b>	<b>2,004</b>	<b>487</b>	<b>1,555</b>
Issuance fixed coupon	538	630	57	44	121	402	552	1,599	265	1,242
Issuance floating coupon	1,726	510	502	48	767	224	614	405	222	314
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,264</b>	<b>1,140</b>	<b>559</b>	<b>92</b>	<b>888</b>	<b>626</b>	<b>1,166</b>	<b>2,004</b>	<b>487</b>	<b>1,555</b>
<b>Number of New Issuers</b>	-	-	-	-	-	1	1	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.17 ICELAND

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	808	893	803	927	1,205	1,902	2,506	3,123	3,071	3,330
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>808</b>	<b>893</b>	<b>803</b>	<b>927</b>	<b>1,205</b>	<b>1,902</b>	<b>2,506</b>	<b>3,123</b>	<b>3,071</b>	<b>3,330</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	808	893	803	927	1,205	1,902	2,506	3,123	3,071	3,330
<b>Private Placement</b>										
<b>Total</b>	<b>808</b>	<b>893</b>	<b>803</b>	<b>927</b>	<b>1,205</b>	<b>1,902</b>	<b>2,506</b>	<b>3,123</b>	<b>3,071</b>	<b>3,330</b>
<b>Denominated in EURO</b>										
Denominated in domestic currency	808	893	803	927	1,205	1,902	2,506	3,123	3,071	3,330
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>808</b>	<b>893</b>	<b>803</b>	<b>927</b>	<b>1,205</b>	<b>1,902</b>	<b>2,506</b>	<b>3,123</b>	<b>3,071</b>	<b>3,330</b>
Hard Bullet	808	497	520	489	421	489	354	338	78	69
Soft Bullet	-	396	283	438	784	1,413	2,152	2,786	2,993	3,261
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>808</b>	<b>893</b>	<b>803</b>	<b>927</b>	<b>1,205</b>	<b>1,902</b>	<b>2,506</b>	<b>3,123</b>	<b>3,071</b>	<b>3,330</b>
Outstanding fixed coupon	-	15	66	199	254	490	541	612	866	904
Outstanding floating coupon	-	-	-	-	-	-	-	-	-	-
Outstanding other	808	878	737	728	951	1,412	1,965	2,512	2,205	2,426
<b>Total</b>	<b>808</b>	<b>893</b>	<b>803</b>	<b>927</b>	<b>1,205</b>	<b>1,902</b>	<b>2,506</b>	<b>3,123</b>	<b>3,071</b>	<b>3,330</b>
Number of Programmes	1	3	4	4	4	4	4	4	3	3
<b>Number of Issuers</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	25	113	51	91	414	560	850	755	788	646
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>25</b>	<b>113</b>	<b>51</b>	<b>91</b>	<b>414</b>	<b>560</b>	<b>850</b>	<b>755</b>	<b>788</b>	<b>646</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	25	113	51	91	414	560	850	755	788	646
<b>Private Placement</b>										
<b>Total</b>	<b>25</b>	<b>113</b>	<b>51</b>	<b>91</b>	<b>414</b>	<b>560</b>	<b>850</b>	<b>755</b>	<b>788</b>	<b>646</b>
Denominated in EURO	-	-	-	-	-	-	-	-	-	-
Denominated in domestic currency	25	113	51	91	414	560	850	755	788	646
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>25</b>	<b>113</b>	<b>51</b>	<b>91</b>	<b>414</b>	<b>560</b>	<b>850</b>	<b>755</b>	<b>788</b>	<b>646</b>
Hard Bullet	-	-	-	-	-	-	-	-	83	-
Soft Bullet	25	113	51	91	414	560	850	672	788	646
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>25</b>	<b>113</b>	<b>51</b>	<b>91</b>	<b>414</b>	<b>560</b>	<b>850</b>	<b>755</b>	<b>788</b>	<b>646</b>
Issuance fixed coupon	-	15	23	35	158	255	99	89	378	462
Issuance floating coupon	-	-	-	-	-	-	-	-	-	-
Issuance other	25	98	28	56	256	305	751	667	410	184
<b>Total</b>	<b>25</b>	<b>113</b>	<b>51</b>	<b>91</b>	<b>414</b>	<b>560</b>	<b>850</b>	<b>755</b>	<b>788</b>	<b>646</b>
<b>Number of New Issuers</b>	-	1	1	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.18 IRELAND

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	31,760	27,546	22,154	20,258	15,389	6,757	3,114	2,531	708	178
Mortgage	30,007	25,099	20,827	18,473	16,916	17,062	16,416	20,788	19,337	16,816
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>61,767</b>	<b>52,645</b>	<b>42,981</b>	<b>38,731</b>	<b>32,305</b>	<b>23,819</b>	<b>19,530</b>	<b>23,319</b>	<b>20,044</b>	<b>16,995</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	26,402	23,079	17,169	13,254	8,010	1,675	2,000	1,000	1,000	1,000
Benchmark (500mio - below 1bn)	500	500	2,500	4,611	7,134	8,668	5,750	7,355	5,679	3,679
Others (below 500Mio)	1,092	868	239	-	232	476	472	-	25	-
<b>Private Placement</b>	<b>33,773</b>	<b>28,198</b>	<b>23,073</b>	<b>20,866</b>	<b>16,930</b>	<b>13,000</b>	<b>11,308</b>	<b>14,964</b>	<b>13,341</b>	<b>12,316</b>
<b>Total</b>	<b>61,767</b>	<b>52,645</b>	<b>42,981</b>	<b>38,731</b>	<b>32,305</b>	<b>23,819</b>	<b>19,530</b>	<b>23,319</b>	<b>20,044</b>	<b>16,995</b>
Denominated in EURO	53,054	44,725	36,360	31,987	27,108	22,263	18,974	23,103	19,973	16,964
Denominated in domestic currency	-	-	-	-	-	-	-	216	72	-
Denominated in other currencies	8,713	7,920	6,621	6,743	5,198	1,556	556	-	-	31
<b>Total</b>	<b>61,767</b>	<b>52,645</b>	<b>42,981</b>	<b>38,731</b>	<b>32,305</b>	<b>23,819</b>	<b>19,530</b>	<b>23,319</b>	<b>20,044</b>	<b>16,995</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	6,853	3,210	2,541	718	178
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	16,966	16,320	20,778	19,327	16,816
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>61,767</b>	<b>52,645</b>	<b>42,981</b>	<b>38,731</b>	<b>32,305</b>	<b>23,819</b>	<b>19,530</b>	<b>23,319</b>	<b>20,044</b>	<b>16,995</b>
Outstanding fixed coupon	35,853	32,658	27,652	26,187	23,003	15,622	11,244	10,190	7,840	5,347
Outstanding floating coupon	22,919	17,008	12,730	10,240	7,045	6,267	8,230	13,058	12,204	11,634
Outstanding other	2,995	2,979	2,598	2,303	2,258	1,930	56	70	-	14
<b>Total</b>	<b>61,767</b>	<b>52,645</b>	<b>42,981</b>	<b>38,731</b>	<b>32,305</b>	<b>23,819</b>	<b>19,530</b>	<b>23,319</b>	<b>20,044</b>	<b>16,995</b>
Number of Programmes	6	5	5	5	5	5	5	5	5	3
<b>Number of Issuers</b>	<b>6</b>	<b>5</b>	<b>3</b>							
<b>Of which, Sustainable Issuers</b>	n.a.									
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	25	-	-	-	-	-	-	-
Mortgage	9,290	5,500	3,235	2,535	5,225	3,542	3,250	5,575	-	2,000
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>9,290</b>	<b>5,500</b>	<b>3,260</b>	<b>2,535</b>	<b>5,225</b>	<b>3,542</b>	<b>3,250</b>	<b>5,575</b>	-	<b>2,000</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	1,000	1,000	-	1,000	1,000	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	500	2,000	1,250	3,000	-	-	750	-	-
Others (below 500Mio)	n.a.	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	n.a.	4,000	260	1,285	1,225	2,542	3,250	4,825	-	2,000
<b>Total</b>	<b>9,290</b>	<b>5,500</b>	<b>3,260</b>	<b>2,535</b>	<b>5,225</b>	<b>3,542</b>	<b>3,250</b>	<b>5,575</b>	-	<b>2,000</b>
Denominated in EURO	9,290	5,500	3,260	2,535	5,225	3,542	3,250	5,575	-	2,000
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>9,290</b>	<b>5,500</b>	<b>3,260</b>	<b>2,535</b>	<b>5,225</b>	<b>3,542</b>	<b>3,250</b>	<b>5,575</b>	-	<b>2,000</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	3,542	3,250	5,575	-	2,000
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>9,290</b>	<b>5,500</b>	<b>3,260</b>	<b>2,535</b>	<b>5,225</b>	<b>3,542</b>	<b>3,250</b>	<b>5,575</b>	-	<b>2,000</b>
Issuance fixed coupon	-	1,500	3,035	1,385	4,225	1,042	-	875	-	-
Issuance floating coupon	9,290	4,000	225	1,150	1,000	2,500	3,250	4,700	-	2,000
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>9,290</b>	<b>5,500</b>	<b>3,260</b>	<b>2,535</b>	<b>5,225</b>	<b>3,542</b>	<b>3,250</b>	<b>5,575</b>	-	<b>2,000</b>
<b>Number of New Issuers</b>	-	-	-	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.19 ITALY

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Outstanding</b>										
Public Sector	12,999	10,300	6,945	8,700	8,400	7,575	6,725	5,625	4,925	4,075
Mortgage	50,768	116,405	122,099	122,464	122,135	138,977	139,937	163,311	172,728	171,102
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>63,767</b>	<b>126,705</b>	<b>129,044</b>	<b>131,164</b>	<b>130,535</b>	<b>146,552</b>	<b>146,662</b>	<b>168,936</b>	<b>177,653</b>	<b>175,177</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Public Placement										
Benchmark (1bn and above)	n.a.	37,927	39,602	44,453	46,503	42,423	42,073	38,103	38,603	35,103
Benchmark (500mio - below 1bn)	n.a.	4,450	8,450	8,400	12,628	12,500	16,575	18,750	20,100	19,600
Others (below 500Mio)	n.a.	1,783	1,170	140	500	375	-	-	200	542
Private Placement	n.a.	82,544	79,822	78,171	70,904	91,254	88,014	112,083	118,750	119,932
<b>Total</b>	<b>63,767</b>	<b>126,705</b>	<b>129,044</b>	<b>131,164</b>	<b>130,535</b>	<b>146,552</b>	<b>146,662</b>	<b>168,936</b>	<b>177,653</b>	<b>175,177</b>
Denominated in EURO	63,668	126,705	129,044	131,164	130,535	146,552	146,662	168,936	177,653	175,177
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	99	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>63,767</b>	<b>126,705</b>	<b>129,044</b>	<b>131,164</b>	<b>130,535</b>	<b>146,552</b>	<b>146,662</b>	<b>168,936</b>	<b>177,653</b>	<b>175,177</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	112,212	110,857	124,951	134,213	131,407
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	34,340	35,805	43,985	43,440	43,770
<b>Total</b>	<b>63,767</b>	<b>126,705</b>	<b>129,044</b>	<b>131,164</b>	<b>130,535</b>	<b>146,552</b>	<b>146,662</b>	<b>168,936</b>	<b>177,653</b>	<b>175,177</b>
Outstanding fixed coupon	44,954	50,059	57,724	63,924	68,111	63,603	64,115	64,070	66,420	63,861
Outstanding floating coupon	18,814	76,646	71,320	67,240	62,424	82,950	82,497	104,816	111,183	111,266
Outstanding other	-	-	-	-	-	-	50	50	50	50
<b>Total</b>	<b>63,767</b>	<b>126,705</b>	<b>129,044</b>	<b>131,164</b>	<b>130,535</b>	<b>146,552</b>	<b>146,662</b>	<b>168,936</b>	<b>177,653</b>	<b>175,177</b>
Number of Programmes	n.a.	n.a.	19	21	24	24	25	23	21	23
<b>Number of Issuers</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>12</b>	<b>14</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Issuance</b>										
Public Sector	5,900	-	4,200	1,000	1,700	2,375	1,650	-	-	-
Mortgage	29,261	70,768	24,520	39,475	27,650	41,780	19,180	45,200	27,000	26,100
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>35,161</b>	<b>70,768</b>	<b>28,720</b>	<b>40,475</b>	<b>29,350</b>	<b>44,155</b>	<b>20,830</b>	<b>45,200</b>	<b>27,000</b>	<b>26,100</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Public Placement										
Benchmark (1bn and above)	n.a.	6,304	5,250	7,750	7,250	3,250	2,250	1,000	3,000	-
Benchmark (500mio - below 1bn)	n.a.	1,700	3,500	2,750	5,500	2,750	3,575	4,250	3,350	1,250
Others (below 500Mio)	n.a.	-	250	-	-	-	-	-	-	300
Private Placement	n.a.	62,764	19,720	29,975	16,600	38,155	15,005	39,950	20,650	24,550
<b>Total</b>	<b>35,161</b>	<b>70,768</b>	<b>28,720</b>	<b>40,475</b>	<b>29,350</b>	<b>44,155</b>	<b>20,830</b>	<b>45,200</b>	<b>27,000</b>	<b>26,100</b>
Denominated in EURO	35,161	70,768	28,720	40,475	29,350	44,155	20,830	45,200	27,000	25,800
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	300
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>35,161</b>	<b>70,768</b>	<b>28,720</b>	<b>40,475</b>	<b>29,350</b>	<b>44,155</b>	<b>20,830</b>	<b>45,200</b>	<b>27,000</b>	<b>26,100</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	25,105	14,015	31,475	23,500	19,550
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	19,050	6,815	13,725	3,500	6,550
<b>Total</b>	<b>35,161</b>	<b>70,768</b>	<b>28,720</b>	<b>40,475</b>	<b>29,350</b>	<b>44,155</b>	<b>20,830</b>	<b>45,200</b>	<b>27,000</b>	<b>26,100</b>
Issuance fixed coupon	18,750	11,013	12,170	10,585	12,250	8,000	7,825	6,000	7,350	3,250
Issuance floating coupon	16,411	59,755	16,550	29,890	17,100	36,155	13,005	39,200	19,650	22,850
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>35,161</b>	<b>70,768</b>	<b>28,720</b>	<b>40,475</b>	<b>29,350</b>	<b>44,155</b>	<b>20,830</b>	<b>45,200</b>	<b>27,000</b>	<b>26,100</b>
<b>Number of New Issuers</b>	1	1	-	1	1	-	1	-	-	2
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.20 JAPAN

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Outstanding</b>										
Public Sector	n.a.	-	-	-						
Mortgage	n.a.	1,000	3,585	5,322						
Ships	n.a.	-	-	-						
Others	n.a.	-	-	-						
<b>Total Outstanding</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>3,585</b>	<b>5,322</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	1,000	1,890	2,815						
Benchmark (500mio - below 1bn)	n.a.	-	1,695	2,507						
Others (below 500Mio)	n.a.	-	-	-						
Private Placement	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>3,585</b>	<b>5,322</b>
Denominated in EURO	n.a.	1,000	2,250	4,100						
Denominated in domestic currency	n.a.	-	-	-						
Denominated in other currencies	n.a.	-	1,335	1,222						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>3,585</b>	<b>5,322</b>
Hard Bullet	n.a.	-	-	-						
Soft Bullet	n.a.	1,000	3,585	5,322						
Conditional Pass Through	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>3,585</b>	<b>5,322</b>
Outstanding fixed coupon	n.a.	1,000	3,585	5,322						
Outstanding floating coupon	n.a.	-	-	-						
Outstanding other	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>3,585</b>	<b>5,322</b>
Number of Programmes	n.a.	1	1	2						
<b>Number of Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Issuance</b>										
Public Sector	n.a.	-	-	-						
Mortgage	n.a.	1,000	2,585	1,850						
Ships	n.a.	-	-	-						
Others	n.a.	-	-	-						
<b>Total Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>2,585</b>	<b>1,850</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>							
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	1,000	890	1,000						
Benchmark (500mio - below 1bn)	n.a.	-	1,695	850						
Others (below 500Mio)	n.a.	-	-	-						
Private Placement	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>2,585</b>	<b>1,850</b>
Denominated in EURO	n.a.	1,000	1,250	1,850						
Denominated in domestic currency	n.a.	-	-	-						
Denominated in other currencies	n.a.	-	1,335	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>2,585</b>	<b>1,850</b>
Hard Bullet	n.a.	-	-	-						
Soft Bullet	n.a.	1,000	2,585	1,850						
Conditional Pass Through	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>2,585</b>	<b>1,850</b>
Issuance fixed coupon	n.a.	1,000	2,585	1,850						
Issuance floating coupon	n.a.	-	-	-						
Issuance other	n.a.	-	-	-						
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1,000</b>	<b>2,585</b>	<b>1,850</b>
<b>Number of New Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1</b>	<b>-</b>	<b>1</b>
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>							

## 5.2.21 LATVIA

<b>Outstanding (in EUR million)</b>	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	37	-	-	-	-	-	-	-	-	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>37</b>	-	-	-	-	-	-	-	-	-
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	37	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>37</b>	-	-	-	-	-	-	-	-	-
Denominated in EURO	25	-	-	-	-	-	-	-	-	-
Denominated in domestic currency	12	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>37</b>	-	-	-	-	-	-	-	-	-
Hard Bullet	n.a.	-	-	-	-	-	-	-	-	-
Soft Bullet	n.a.	-	-	-	-	-	-	-	-	-
Conditional Pass Through	n.a.	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a.</b>	-	-	-	-	-	-	-	-	-
Outstanding fixed coupon	12	-	-	-	-	-	-	-	-	-
Outstanding floating coupon	25	-	-	-	-	-	-	-	-	-
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>37</b>	-	-	-	-	-	-	-	-	-
Number of Programmes	n.a.	-	-	-	-	-	-	-	-	-
<b>Number of Issuers</b>	<b>2</b>	-	-	-	-	-	-	-	-	-
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	-	-	-	-	-	-	-	-	-	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	-	-	-	-	-	-	-	-	-	-
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-
Denominated in EURO	-	-	-	-	-	-	-	-	-	-
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-
Issuance fixed coupon	-	-	-	-	-	-	-	-	-	-
Issuance floating coupon	-	-	-	-	-	-	-	-	-	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-
<b>Number of New Issuers</b>	-	-	-	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.22 LUXEMBOURG

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	26,700	24,859	21,708	16,002	10,166	7,864	6,905	6,103	6,290	5,767
Mortgage	-	-	-	-	-	-	-	-	-	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	300
<b>Total Outstanding</b>	<b>26,700</b>	<b>24,859</b>	<b>21,708</b>	<b>16,002</b>	<b>10,166</b>	<b>7,864</b>	<b>6,905</b>	<b>6,103</b>	<b>6,290</b>	<b>6,067</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>300</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	1,768	1,000	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	973	2,781	2,310	2,810	2,068	2,579	2,530
Others (below 500Mio)	n.a.	9,696	10,052	8,041	1,150	810	440	375	438	583
Private Placement	n.a.	13,395	10,656	6,987	6,235	4,744	3,655	3,660	3,273	2,954
<b>Total</b>	<b>26,700</b>	<b>24,859</b>	<b>21,708</b>	<b>16,002</b>	<b>10,166</b>	<b>7,864</b>	<b>6,905</b>	<b>6,103</b>	<b>6,290</b>	<b>6,067</b>
Denominated in EURO	15,496	14,994	12,925	8,226	5,578	5,360	4,267	4,057	4,350	4,533
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	11,204	9,864	8,783	7,775	4,589	2,504	2,638	2,046	1,940	1,534
<b>Total</b>	<b>26,700</b>	<b>24,859</b>	<b>21,708</b>	<b>16,002</b>	<b>10,166</b>	<b>7,864</b>	<b>6,905</b>	<b>6,103</b>	<b>6,290</b>	<b>6,066</b>
Hard Bullet	26,700	24,859	21,708	16,002	10,166	7,864	6,905	6,103	6,290	5,767
Soft Bullet	-	-	-	-	-	-	-	-	-	300
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>26,700</b>	<b>24,859</b>	<b>21,708</b>	<b>16,002</b>	<b>10,166</b>	<b>7,864</b>	<b>6,905</b>	<b>6,103</b>	<b>6,290</b>	<b>6,067</b>
Outstanding fixed coupon	16,547	14,766	13,182	11,417	8,250	6,589	6,509	5,973	6,044	5,831
Outstanding floating coupon	9,377	8,507	7,080	3,802	1,710	816	142	116	118	222
Outstanding other	776	1,585	1,445	783	206	460	254	14	128	14
<b>Total</b>	<b>26,700</b>	<b>24,859</b>	<b>21,708</b>	<b>16,002</b>	<b>10,166</b>	<b>7,864</b>	<b>6,905</b>	<b>6,103</b>	<b>6,290</b>	<b>6,067</b>
Number of Programmes	n.a.	n.a.	6	5	3	3	3	3	2	3
<b>Number of Issuers</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1</b>
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	2,788	2,660	825	398	1,220	655	744	726	525	512
Mortgage	-	-	-	-	-	-	-	-	-	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	300
<b>Total Issuance</b>	<b>2,788</b>	<b>2,660</b>	<b>825</b>	<b>398</b>	<b>1,220</b>	<b>655</b>	<b>744</b>	<b>726</b>	<b>525</b>	<b>812</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>300</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	-	1,000	500	500	568	500	500
Others (below 500Mio)	n.a.	-	-	-	-	-	-	-	-	300
Private Placement	n.a.	2,660	825	398	220	155	244	158	25	12
<b>Total</b>	<b>2,788</b>	<b>2,660</b>	<b>825</b>	<b>398</b>	<b>1,220</b>	<b>655</b>	<b>744</b>	<b>726</b>	<b>525</b>	<b>812</b>
Denominated in EURO	2,422	2,587	825	233	1,220	655	640	158	525	812
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	366	73	-	165	-	-	104	568	-	-
<b>Total</b>	<b>2,788</b>	<b>2,660</b>	<b>825</b>	<b>398</b>	<b>1,220</b>	<b>655</b>	<b>744</b>	<b>726</b>	<b>525</b>	<b>812</b>
Hard Bullet	2,788	2,660	825	398	1,220	655	744	726	525	512
Soft Bullet	-	-	-	-	-	-	-	-	-	300
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,788</b>	<b>2,660</b>	<b>825</b>	<b>398</b>	<b>1,220</b>	<b>655</b>	<b>744</b>	<b>726</b>	<b>525</b>	<b>812</b>
Issuance fixed coupon	336	187	-	398	1,205	655	744	726	525	812
Issuance floating coupon	2,452	2,473	825	-	15	-	-	-	-	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,788</b>	<b>2,660</b>	<b>825</b>	<b>398</b>	<b>1,220</b>	<b>655</b>	<b>744</b>	<b>726</b>	<b>525</b>	<b>812</b>
<b>Number of New Issuers</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>1</b>

## 5.2.23 THE NETHERLANDS

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	51,970	59,822	61,015	58,822	61,101	67,604	72,880	94,797	118,969	154,505
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>51,970</b>	<b>59,822</b>	<b>61,015</b>	<b>58,822</b>	<b>61,101</b>	<b>67,604</b>	<b>72,880</b>	<b>94,797</b>	<b>118,969</b>	<b>154,505</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	38,850	44,487	44,188	40,335	37,228	38,773	40,001	42,330	46,730	44,617
Benchmark (500mio - below 1bn)	500	500	1,000	1,000	2,750	4,750	7,750	10,500	13,875	15,625
Others (below 500Mio)	2,345	2,319	2,281	2,329	1,523	1,211	812	399	415	417
<b>Private Placement</b>	<b>10,276</b>	<b>12,516</b>	<b>13,547</b>	<b>15,158</b>	<b>19,600</b>	<b>22,870</b>	<b>24,317</b>	<b>41,568</b>	<b>57,949</b>	<b>93,846</b>
<b>Total</b>	<b>51,970</b>	<b>59,822</b>	<b>61,015</b>	<b>58,822</b>	<b>61,101</b>	<b>67,604</b>	<b>72,880</b>	<b>94,797</b>	<b>118,969</b>	<b>154,505</b>
Denominated in EURO	47,795	53,884	55,362	53,030	55,897	63,694	69,722	91,990	116,103	152,002
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	4,175	5,938	5,653	5,792	5,204	3,910	3,158	2,807	2,866	2,503
<b>Total</b>	<b>51,970</b>	<b>59,822</b>	<b>61,015</b>	<b>58,822</b>	<b>61,101</b>	<b>67,604</b>	<b>72,880</b>	<b>94,797</b>	<b>118,969</b>	<b>154,505</b>
Hard Bullet	45,122	53,242	53,938	53,303	17,557	16,151	15,038	12,762	12,400	11,170
Soft Bullet	6,848	6,580	6,576	4,519	40,793	47,203	51,092	73,786	95,924	132,439
Conditional Pass Through	-	-	501	1,000	2,751	4,250	6,750	8,250	10,645	10,895
<b>Total</b>	<b>51,970</b>	<b>59,822</b>	<b>61,015</b>	<b>58,822</b>	<b>61,101</b>	<b>67,604</b>	<b>72,880</b>	<b>94,797</b>	<b>118,969</b>	<b>154,505</b>
Outstanding fixed coupon	51,230	58,902	60,016	57,874	59,152	62,191	67,868	87,285	112,032	147,677
Outstanding floating coupon	700	880	959	928	1,928	5,392	4,992	7,492	6,917	6,807
Outstanding other	40	40	40	20	20	20	20	20	20	20
<b>Total</b>	<b>51,970</b>	<b>59,822</b>	<b>61,015</b>	<b>58,822</b>	<b>61,101</b>	<b>67,604</b>	<b>72,880</b>	<b>94,797</b>	<b>118,969</b>	<b>154,504</b>
Number of Programmes	5	5	6	5	8	8	10	11	13	14
<b>Number of Issuers</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>7</b>	<b>7</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.								
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	14,143	10,738	4,478	3,910	7,908	9,908	11,925	28,714	28,388	44,013
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>14,143</b>	<b>10,738</b>	<b>4,478</b>	<b>3,910</b>	<b>7,908</b>	<b>9,908</b>	<b>11,925</b>	<b>28,714</b>	<b>28,388</b>	<b>44,013</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	9,700	8,387	2,750	1,500	1,750	3,500	6,750	7,770	6,375	4,250
Benchmark (500mio - below 1bn)	500	-	500	500	1,750	2,000	3,000	3,250	4,625	2,500
Others (below 500Mio)	473	290	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>3,470</b>	<b>2,062</b>	<b>1,228</b>	<b>1,910</b>	<b>4,408</b>	<b>4,408</b>	<b>2,175</b>	<b>17,694</b>	<b>17,388</b>	<b>37,263</b>
<b>Total</b>	<b>14,143</b>	<b>10,738</b>	<b>4,478</b>	<b>3,910</b>	<b>7,908</b>	<b>9,908</b>	<b>11,925</b>	<b>28,714</b>	<b>28,388</b>	<b>44,013</b>
Denominated in EURO	13,207	8,859	4,478	3,910	7,908	9,908	11,925	28,714	28,388	44,013
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	937	1,879	-	-	-	-	-	-	-	-
<b>Total</b>	<b>14,143</b>	<b>10,738</b>	<b>4,478</b>	<b>3,910</b>	<b>7,908</b>	<b>9,908</b>	<b>11,925</b>	<b>28,714</b>	<b>28,388</b>	<b>44,013</b>
Hard Bullet	13,639	9,738	3,977	3,235	-	-	-	-	30	-
Soft Bullet	504	1,000	-	-	6,157	8,408	9,425	26,714	25,463	43,013
Conditional Pass Through	-	-	501	675	1,751	1,500	2,500	2,000	2,895	1,000
<b>Total</b>	<b>14,143</b>	<b>10,738</b>	<b>4,478</b>	<b>3,910</b>	<b>7,908</b>	<b>9,908</b>	<b>11,925</b>	<b>28,714</b>	<b>28,388</b>	<b>44,013</b>
Issuance fixed coupon	14,013	10,558	4,398	3,895	6,908	6,333	11,925	28,714	28,388	44,013
Issuance floating coupon	130	180	80	15	1,000	3,575	-	-	-	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>14,143</b>	<b>10,738</b>	<b>4,478</b>	<b>3,910</b>	<b>7,908</b>	<b>9,908</b>	<b>11,925</b>	<b>28,714</b>	<b>28,388</b>	<b>44,013</b>
<b>Number of New Issuers</b>	-	-	-	-	2	-	2	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.24 NEW ZEALAND

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	3,656	6,881	7,851	9,464	9,149	10,677	10,188	9,803	10,018	9,692
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>3,656</b>	<b>6,881</b>	<b>7,851</b>	<b>9,464</b>	<b>9,149</b>	<b>10,677</b>	<b>10,188</b>	<b>9,803</b>	<b>10,018</b>	<b>9,692</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Benchmark (500mio - below 1bn)	1,050	3,051	3,954	5,472	5,470	6,750	6,750	7,000	7,500	7,000
Others (below 500Mio)	427	1,353	1,436	1,347	788	605	555	134	138	315
Private Placement	179	477	461	645	891	1,322	883	669	380	377
<b>Total</b>	<b>3,656</b>	<b>6,881</b>	<b>7,851</b>	<b>9,464</b>	<b>9,149</b>	<b>10,677</b>	<b>10,188</b>	<b>9,803</b>	<b>10,018</b>	<b>9,692</b>
Denominated in EURO	2,500	4,500	5,500	7,000	7,200	8,950	8,950	9,200	9,700	9,200
Denominated in domestic currency	606	982	940	1,014	879	1,122	683	469	180	177
Denominated in other currencies	550	1,399	1,411	1,449	1,070	605	555	134	138	315
<b>Total</b>	<b>3,656</b>	<b>6,881</b>	<b>7,851</b>	<b>9,464</b>	<b>9,149</b>	<b>10,677</b>	<b>10,188</b>	<b>9,803</b>	<b>10,018</b>	<b>9,692</b>
Hard Bullet	3,656	6,131	5,979	6,839	5,061	2,889	932	293	-	-
Soft Bullet	-	750	1,872	2,625	4,088	7,788	9,256	9,510	10,018	9,692
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3,656</b>	<b>6,881</b>	<b>7,851</b>	<b>9,464</b>	<b>9,149</b>	<b>10,677</b>	<b>10,188</b>	<b>9,803</b>	<b>10,018</b>	<b>9,692</b>
Outstanding fixed coupon	3,477	6,259	7,244	8,834	8,961	10,479	10,010	9,627	10,018	9,377
Outstanding floating coupon	179	622	607	630	188	198	178	176	-	315
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3,656</b>	<b>6,881</b>	<b>7,851</b>	<b>9,464</b>	<b>9,149</b>	<b>10,677</b>	<b>10,188</b>	<b>9,803</b>	<b>10,018</b>	<b>9,692</b>
Number of Programmes	4	4	5	5	5	5	5	5	5	5
<b>Number of Issuers</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	2,409	3,192	1,122	750	1,450	3,698	2,250	1,250	1,250	315
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>2,409</b>	<b>3,192</b>	<b>1,122</b>	<b>750</b>	<b>1,450</b>	<b>3,698</b>	<b>2,250</b>	<b>1,250</b>	<b>1,250</b>	<b>315</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	1,000	-	-	-	-	1,000	1,000	-	-	-
Benchmark (500mio - below 1bn)	1,050	2,000	1,000	750	1,250	2,500	1,250	1,250	1,250	-
Others (below 500Mio)	179	902	122	-	-	-	-	-	-	315
Private Placement	179	290	-	-	200	198	-	-	-	-
<b>Total</b>	<b>2,409</b>	<b>3,192</b>	<b>1,122</b>	<b>750</b>	<b>1,450</b>	<b>3,698</b>	<b>2,250</b>	<b>1,250</b>	<b>1,250</b>	<b>315</b>
Denominated in EURO	1,500	2,000	1,000	750	1,450	3,500	2,250	1,250	1,250	-
Denominated in domestic currency	358	343	-	-	-	198	-	-	-	-
Denominated in other currencies	550	849	122	-	-	-	-	-	-	315
<b>Total</b>	<b>2,409</b>	<b>3,192</b>	<b>1,122</b>	<b>750</b>	<b>1,450</b>	<b>3,698</b>	<b>2,250</b>	<b>1,250</b>	<b>1,250</b>	<b>315</b>
Hard Bullet	2,409	2,442	-	-	-	-	-	-	-	-
Soft Bullet	-	750	1,122	750	1,450	3,698	2,250	1,250	1,250	315
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,409</b>	<b>3,192</b>	<b>1,122</b>	<b>750</b>	<b>1,450</b>	<b>3,698</b>	<b>2,250</b>	<b>1,250</b>	<b>1,250</b>	<b>315</b>
Issuance fixed coupon	2,229	2,757	1,122	750	1,450	3,698	2,250	1,250	1,250	-
Issuance floating coupon	179	435	-	-	-	-	-	-	-	315
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,409</b>	<b>3,192</b>	<b>1,122</b>	<b>750</b>	<b>1,450</b>	<b>3,698</b>	<b>2,250</b>	<b>1,250</b>	<b>1,250</b>	<b>315</b>
<b>Number of New Issuers</b>	<b>3</b>	-	<b>1</b>	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.25 NORWAY

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	3,759	2,742	2,035	1,820	1,672	2,199	1,824	1,784	1,886	2,580
Mortgage	91,852	107,242	105,202	102,704	107,694	113,051	113,359	119,398	123,023	131,713
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>95,611</b>	<b>109,984</b>	<b>107,237</b>	<b>104,524</b>	<b>109,366</b>	<b>115,251</b>	<b>115,183</b>	<b>121,182</b>	<b>124,909</b>	<b>134,294</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	4,009	7,302
Public Placement										
Benchmark (1bn and above)	n.a.	51,179	47,342	51,185	46,834	52,192	49,390	53,375	53,088	56,930
Benchmark (500mio - below 1bn)	n.a.	20,125	18,471	14,523	18,953	21,430	30,183	29,086	34,650	38,590
Others (below 500Mio)	n.a.	32,354	31,763	26,434	32,463	32,681	26,212	29,305	25,651	27,318
Private Placement	n.a.	6,327	9,661	12,382	11,116	8,947	9,397	9,416	11,520	11,456
<b>Total</b>	<b>95,611</b>	<b>109,985</b>	<b>107,237</b>	<b>104,524</b>	<b>109,366</b>	<b>115,251</b>	<b>115,183</b>	<b>121,182</b>	<b>124,909</b>	<b>134,294</b>
Denominated in EURO	29,953	38,597	44,510	49,928	51,537	55,256	56,257	60,396	63,004	62,929
Denominated in domestic currency	55,325	59,533	49,965	41,502	44,081	50,159	49,490	52,640	54,385	64,171
Denominated in other currencies	10,333	11,854	12,762	13,094	13,748	9,837	9,435	8,145	7,520	7,195
<b>Total</b>	<b>95,611</b>	<b>109,984</b>	<b>107,237</b>	<b>104,524</b>	<b>109,366</b>	<b>115,251</b>	<b>115,183</b>	<b>121,182</b>	<b>124,909</b>	<b>134,294</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	8,232	8,484	7,646	7,286	8,724
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	107,019	106,699	113,535	117,623	125,570
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>95,611</b>	<b>109,984</b>	<b>107,237</b>	<b>104,524</b>	<b>109,366</b>	<b>115,251</b>	<b>115,183</b>	<b>121,182</b>	<b>124,909</b>	<b>134,294</b>
Outstanding fixed coupon	44,813	56,918	63,088	66,831	70,368	68,106	68,908	71,896	75,935	74,174
Outstanding floating coupon	50,798	53,066	44,148	37,694	38,998	47,146	45,246	49,285	48,974	60,120
Outstanding other	-	-	-	-	-	-	1,029	-	-	-
<b>Total</b>	<b>95,611</b>	<b>109,984</b>	<b>107,236</b>	<b>104,524</b>	<b>109,366</b>	<b>115,251</b>	<b>115,183</b>	<b>121,182</b>	<b>124,909</b>	<b>134,294</b>
Number of Programmes	n.a.	n.a.	23	23	27	28	29	28	27	26
<b>Number of Issuers</b>	<b>23</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>24</b>	<b>25</b>	<b>25</b>	<b>24</b>	<b>24</b>	<b>24</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5	8
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	2,374	943	239	664	312	781	457	332	608	382
Mortgage	28,135	22,946	18,339	14,474	17,750	23,058	21,256	24,331	20,766	29,686
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>30,509</b>	<b>23,888</b>	<b>18,578</b>	<b>15,138</b>	<b>18,063</b>	<b>23,839</b>	<b>21,713</b>	<b>24,663</b>	<b>21,374</b>	<b>30,068</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,509	2,795
Public Placement										
Benchmark (1bn and above)	n.a.	10,916	7,441	6,823	4,937	9,143	7,699	10,595	7,584	9,847
Benchmark (500mio - below 1bn)	n.a.	4,748	1,458	2,157	4,346	6,400	6,767	6,049	8,548	11,368
Others (below 500Mio)	n.a.	7,664	8,267	5,082	8,574	7,115	6,295	7,304	4,633	4,596
Private Placement	n.a.	560	1,412	1,076	206	1,181	951	716	608	4,257
<b>Total</b>	<b>30,509</b>	<b>23,888</b>	<b>18,578</b>	<b>15,138</b>	<b>18,063</b>	<b>23,839</b>	<b>21,713</b>	<b>24,663</b>	<b>21,374</b>	<b>30,068</b>
Denominated in EURO	8,800	12,431	8,382	4,590	6,773	10,342	9,688	11,618	8,150	5,918
Denominated in domestic currency	15,808	9,463	7,546	9,854	9,206	12,807	9,675	11,465	12,295	23,115
Denominated in other currencies	5,901	1,994	2,651	694	2,084	690	2,350	1,580	929	1,036
<b>Total</b>	<b>30,509</b>	<b>23,888</b>	<b>18,578</b>	<b>15,138</b>	<b>18,063</b>	<b>23,839</b>	<b>21,713</b>	<b>24,663</b>	<b>21,374</b>	<b>30,068</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	196	633	1,167	30	747
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	23,643	21,080	23,496	21,344	29,321
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>30,509</b>	<b>23,888</b>	<b>18,578</b>	<b>15,138</b>	<b>18,063</b>	<b>23,839</b>	<b>21,713</b>	<b>24,663</b>	<b>21,374</b>	<b>30,068</b>
Issuance fixed coupon	15,961	15,462	11,423	3,475	9,173	10,719	11,896	13,992	10,375	5,898
Issuance floating coupon	14,548	8,427	7,155	11,519	8,748	12,525	9,817	10,671	10,999	24,170
Issuance other	-	-	-	144	142	594	-	-	-	-
<b>Total</b>	<b>30,509</b>	<b>23,888</b>	<b>18,578</b>	<b>15,138</b>	<b>18,063</b>	<b>23,839</b>	<b>21,713</b>	<b>24,663</b>	<b>21,374</b>	<b>30,068</b>
<b>Number of New Issuers</b>	1	-	-	1	2	1	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	3	2

Note: The breakdown for public/private issuance may be based on different definitions with the ECBC guidelines.

## 5.2.26 PANAMA

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	n.a.	-	-	-	-	-	-	-	-	-
Mortgage	n.a.	152	218	247	276	80	-	10	36	33
Ships	n.a.	-	-	-	-	-	-	-	-	-
Others	n.a.	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>n.a.</b>	<b>152</b>	<b>218</b>	<b>247</b>	<b>276</b>	<b>80</b>	-	<b>10</b>	<b>36</b>	<b>33</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	n.a.	152	218	247	276	80	-	-	-	-
Private Placement	n.a.	-	-	-	-	-	-	10	36	33
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>218</b>	<b>247</b>	<b>276</b>	<b>80</b>	-	<b>10</b>	<b>36</b>	<b>33</b>
Denominated in EURO	n.a.	-	-	-	-	-	-	-	-	-
Denominated in domestic currency	n.a.	-	-	-	-	-	-	-	-	-
Denominated in other currencies	n.a.	152	218	247	276	80	-	10	36	33
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>218</b>	<b>247</b>	<b>276</b>	<b>80</b>	-	<b>10</b>	<b>36</b>	<b>33</b>
Hard Bullet	n.a.	-	-	-	-	-	-	-	-	-
Soft Bullet	n.a.	152	218	247	276	80	-	10	36	33
Conditional Pass Through	n.a.	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>218</b>	<b>247</b>	<b>276</b>	<b>80</b>	-	<b>10</b>	<b>36</b>	<b>33</b>
Outstanding fixed coupon	n.a.	152	218	247	276	80	-	10	36	33
Outstanding floating coupon	n.a.	-	-	-	-	-	-	-	-	-
Outstanding other	n.a.	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>218</b>	<b>247</b>	<b>276</b>	<b>80</b>	-	<b>10</b>	<b>36</b>	<b>33</b>
Number of Programmes	n.a.	1	1	1	1	1	-	1	1	1
<b>Number of Issuers</b>	<b>n.a.</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	-	<b>1</b>	<b>1</b>	<b>1</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	n.a.	-	-	-	-	-	-	-	-	-
Mortgage	n.a.	152	73	-	-	-	-	10	26	-
Ships	n.a.	-	-	-	-	-	-	-	-	-
Others	n.a.	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>n.a.</b>	<b>152</b>	<b>73</b>	-	-	-	-	<b>10</b>	<b>26</b>	-
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>									
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	n.a.	152	73	-	-	-	-	-	-	-
Private Placement	n.a.	-	-	-	-	-	-	10	26	-
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>73</b>	-	-	-	-	<b>10</b>	<b>26</b>	-
Denominated in EURO	n.a.	-	-	-	-	-	-	-	-	-
Denominated in domestic currency	n.a.	-	-	-	-	-	-	-	-	-
Denominated in other currencies	n.a.	152	73	-	-	-	-	10	26	-
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>73</b>	-	-	-	-	<b>10</b>	<b>26</b>	-
Hard Bullet	n.a.	-	-	-	-	-	-	-	-	-
Soft Bullet	n.a.	152	73	-	-	-	-	10	26	-
Conditional Pass Through	n.a.	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>73</b>	-	-	-	-	<b>10</b>	<b>26</b>	-
Issuance fixed coupon	n.a.	152	73	-	-	-	-	10	26	-
Issuance floating coupon	n.a.	-	-	-	-	-	-	-	-	-
Issuance other	n.a.	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>n.a.</b>	<b>152</b>	<b>73</b>	-	-	-	-	<b>10</b>	<b>26</b>	-
<b>Number of New Issuers</b>	<b>n.a.</b>	<b>1</b>	-	-	-	-	-	<b>1</b>	-	-
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>									

## 5.2.27 POLAND

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	112	110	84	82	35	-	-	79	71	58
Mortgage	527	657	707	882	1,230	2,216	3,959	4,925	6,111	5,776
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>639</b>	<b>768</b>	<b>791</b>	<b>964</b>	<b>1,266</b>	<b>2,216</b>	<b>3,959</b>	<b>5,004</b>	<b>6,181</b>	<b>5,834</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	211	197
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	-	-	500	1,500	2,000	2,700	2,700
Others (below 500Mio)	n.a.	768	791	964	1,266	1,556	2,284	2,846	3,332	2,997
<b>Private Placement</b>	n.a.	-	-	-	-	160	175	158	150	137
<b>Total</b>	<b>639</b>	<b>768</b>	<b>791</b>	<b>964</b>	<b>1,266</b>	<b>2,216</b>	<b>3,959</b>	<b>5,004</b>	<b>6,181</b>	<b>5,834</b>
Denominated in EURO	-	20	117	250	378	1,046	2,170	2,882	3,841	3,806
Denominated in domestic currency	639	748	674	714	888	1,170	1,789	2,122	2,340	2,028
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>639</b>	<b>768</b>	<b>791</b>	<b>964</b>	<b>1,266</b>	<b>2,216</b>	<b>3,959</b>	<b>5,004</b>	<b>6,181</b>	<b>5,834</b>
Hard Bullet	639	768	791	964	1,266	-	-	-	-	-
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	2,216	3,959	5,004	6,181	5,834
<b>Total</b>	<b>639</b>	<b>768</b>	<b>791</b>	<b>964</b>	<b>1,266</b>	<b>2,216</b>	<b>3,959</b>	<b>5,004</b>	<b>6,181</b>	<b>5,834</b>
Outstanding fixed coupon	-	-	30	107	139	721	1,990	2,781	3,782	3,756
Outstanding floating coupon	639	768	761	857	1,127	1,495	1,969	2,223	2,399	2,077
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>639</b>	<b>768</b>	<b>791</b>	<b>964</b>	<b>1,266</b>	<b>2,216</b>	<b>3,959</b>	<b>5,004</b>	<b>6,181</b>	<b>5,834</b>
Number of Programmes	n.a.	3	3	3	4	3	3	3	5	5
<b>Number of Issuers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2	2
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	61	-	-	-	-	-	79	-	-
Mortgage	269	228	116	269	416	1,099	2,048	1,244	1,284	22
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>269</b>	<b>289</b>	<b>116</b>	<b>269</b>	<b>416</b>	<b>1,099</b>	<b>2,048</b>	<b>1,323</b>	<b>1,284</b>	<b>22</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	211	-
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	-	-	500	1,000	500	700	-
Others (below 500Mio)	n.a.	289	116	269	416	439	801	744	534	22
Private Placement	n.a.	-	-	-	-	160	247	79	50	-
<b>Total</b>	<b>269</b>	<b>289</b>	<b>116</b>	<b>269</b>	<b>416</b>	<b>1,099</b>	<b>2,048</b>	<b>1,323</b>	<b>1,284</b>	<b>22</b>
Denominated in EURO	-	20	96	135	127	668	1,204	800	1,050	-
Denominated in domestic currency	269	269	20	135	290	431	844	523	234	22
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>269</b>	<b>289</b>	<b>116</b>	<b>269</b>	<b>416</b>	<b>1,099</b>	<b>2,048</b>	<b>1,323</b>	<b>1,284</b>	<b>22</b>
Hard Bullet	269	289	116	269	416	-	-	-	-	-
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	1,099	2,048	1,323	1,284	22
<b>Total</b>	<b>269</b>	<b>289</b>	<b>116</b>	<b>269</b>	<b>416</b>	<b>1,099</b>	<b>2,048</b>	<b>1,323</b>	<b>1,284</b>	<b>22</b>
Issuance fixed coupon	-	-	30	78	31	582	1,267	814	1,000	-
Issuance floating coupon	269	289	86	192	385	517	781	509	284	22
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>269</b>	<b>289</b>	<b>116</b>	<b>269</b>	<b>416</b>	<b>1,099</b>	<b>2,048</b>	<b>1,323</b>	<b>1,284</b>	<b>22</b>
<b>Number of New Issuers</b>	-	-	-	-	1	-	-	-	1	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2	-

For the Polish issuer community a placement is considered public when there is one external lead involved and not at least two as per the underlying definition of the Fact Book. This is the reason why there is a discrepancy between the Fact Book and Covered Bond Label statistics for Poland.

## 5.2.28 PORTUGAL

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	1,400	1,300	1,200	400	500	500	600	600	600	600
Mortgage	33,248	34,321	36,016	33,711	34,461	32,970	35,530	35,795	36,600	38,350
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>34,648</b>	<b>35,621</b>	<b>37,216</b>	<b>34,111</b>	<b>34,961</b>	<b>33,470</b>	<b>36,130</b>	<b>36,395</b>	<b>37,200</b>	<b>38,950</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	15,358	11,550	9,706	8,656	6,906	4,500	5,000	5,000	5,000	4,000
Benchmark (500mio - below 1bn)	-	-	750	1,500	3,000	3,000	3,750	3,000	2,500	1,750
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>19,290</b>	<b>24,071</b>	<b>26,760</b>	<b>23,955</b>	<b>25,055</b>	<b>25,970</b>	<b>27,380</b>	<b>28,395</b>	<b>29,700</b>	<b>33,200</b>
<b>Total</b>	<b>34,648</b>	<b>35,621</b>	<b>37,216</b>	<b>34,111</b>	<b>34,961</b>	<b>33,470</b>	<b>36,130</b>	<b>36,395</b>	<b>37,200</b>	<b>38,950</b>
Denominated in EURO	34,648	35,621	37,216	34,111	34,961	33,470	36,130	36,395	37,200	38,950
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>34,648</b>	<b>35,621</b>	<b>37,216</b>	<b>34,111</b>	<b>34,961</b>	<b>33,470</b>	<b>36,130</b>	<b>36,395</b>	<b>37,200</b>	<b>38,950</b>
Hard Bullet	300	300	300	300	300	-	-	-	-	-
Soft Bullet	34,348	35,321	36,916	33,811	30,961	27,020	29,630	29,895	29,400	31,150
Conditional Pass Through	-	-	-	-	3,700	6,450	6,500	6,500	7,800	7,800
<b>Total</b>	<b>34,648</b>	<b>35,621</b>	<b>37,216</b>	<b>34,111</b>	<b>34,961</b>	<b>33,470</b>	<b>36,130</b>	<b>36,395</b>	<b>37,200</b>	<b>38,950</b>
Outstanding fixed coupon	15,418	11,610	10,516	10,966	11,466	10,260	12,970	12,200	12,800	12,550
Outstanding floating coupon	19,230	24,011	26,700	23,145	23,495	23,210	23,160	24,195	24,400	26,400
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>34,648</b>	<b>35,621</b>	<b>37,216</b>	<b>34,111</b>	<b>34,961</b>	<b>33,470</b>	<b>36,130</b>	<b>36,395</b>	<b>37,200</b>	<b>38,950</b>
Number of Programmes	11	11	11	10	11	10	9	7	7	7
<b>Number of Issuers</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>6</b>
<b>Of which, Sustainable Issuers</b>	n.a.									
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	100	150	350	-	-	-
Mortgage	8,450	4,850	4,500	3,825	8,675	5,950	8,200	2,350	4,800	1,500
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>8,450</b>	<b>4,850</b>	<b>4,500</b>	<b>3,825</b>	<b>8,775</b>	<b>6,100</b>	<b>8,550</b>	<b>2,350</b>	<b>4,800</b>	<b>1,500</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	1,000	1,000	-	3,000	-	-	-
Benchmark (500mio - below 1bn)	-	-	750	1,500	750	-	750	-	1,000	-
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>8,450</b>	<b>4,850</b>	<b>3,750</b>	<b>1,325</b>	<b>7,025</b>	<b>6,100</b>	<b>4,800</b>	<b>2,350</b>	<b>3,800</b>	<b>1,500</b>
<b>Total</b>	<b>8,450</b>	<b>4,850</b>	<b>4,500</b>	<b>3,825</b>	<b>8,775</b>	<b>6,100</b>	<b>8,550</b>	<b>2,350</b>	<b>4,800</b>	<b>1,500</b>
Denominated in EURO	8,450	4,850	4,500	3,825	8,775	6,100	8,550	2,350	4,800	1,500
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>8,450</b>	<b>4,850</b>	<b>4,500</b>	<b>3,825</b>	<b>8,775</b>	<b>6,100</b>	<b>8,550</b>	<b>2,350</b>	<b>4,800</b>	<b>1,500</b>
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	8,450	4,850	4,000	3,825	4,575	4,350	7,550	2,350	3,000	1,500
Conditional Pass Through	-	-	500	-	4,200	1,750	1,000	-	1,800	-
<b>Total</b>	<b>8,450</b>	<b>4,850</b>	<b>4,500</b>	<b>3,825</b>	<b>8,775</b>	<b>6,100</b>	<b>8,550</b>	<b>2,350</b>	<b>4,800</b>	<b>1,500</b>
Issuance fixed coupon	-	-	750	3,250	2,500	3,700	5,500	-	2,100	1,500
Issuance floating coupon	8,450	4,850	3,750	575	6,275	2,400	3,050	2,350	2,700	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>8,450</b>	<b>4,850</b>	<b>4,500</b>	<b>3,825</b>	<b>8,775</b>	<b>6,100</b>	<b>8,550</b>	<b>2,350</b>	<b>4,800</b>	<b>1,500</b>
<b>Number of New Issuers</b>	<b>2</b>	-	-	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.29 SINGAPORE

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Mortgage	n.a.	n.a.	n.a.	n.a.	919	1,963	5,576	8,466	8,990	8,815
Ships	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Others	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total Outstanding</b>	n.a.	n.a.	n.a.	n.a.	919	1,963	5,576	8,466	8,990	8,815
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	n.a.	n.a.	n.a.	919	949	834	1,092	1,113	2,019
Benchmark (500mio - below 1bn)	n.a.	n.a.	n.a.	n.a.	-	1,014	4,644	7,282	7,783	6,797
Others (below 500Mio)	n.a.	n.a.	n.a.	n.a.	-	-	98	92	94	-
<b>Private Placement</b>	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,963	5,576	8,466	8,990	8,815
Denominated in EURO	n.a.	n.a.	n.a.	n.a.	-	500	3,250	5,250	5,250	6,250
Denominated in domestic currency	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Denominated in other currencies	n.a.	n.a.	n.a.	n.a.	919	1,463	2,326	3,216	3,740	2,565
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,963	5,576	8,466	8,990	8,815
Hard Bullet	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	919	1,963	5,576	8,466	8,990	8,816
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,963	5,576	8,466	8,990	8,816
Outstanding fixed coupon	n.a.	n.a.	n.a.	n.a.	919	1,449	4,598	6,871	7,347	7,676
Outstanding floating coupon	n.a.	n.a.	n.a.	n.a.	-	514	977	1,596	1,643	1,139
Outstanding other	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,963	5,576	8,466	8,990	8,815
Number of Programmes	n.a.	n.a.	n.a.	n.a.	1	2	3	3	3	3
<b>Number of Issuers</b>	n.a.	n.a.	n.a.	n.a.	1	2	3	3	3	3
<b>Of which, Sustainable Issuers</b>	n.a.									
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Mortgage	n.a.	n.a.	n.a.	n.a.	919	1,014	3,753	3,762	914	1,000
Ships	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Others	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total Issuance</b>	n.a.	n.a.	n.a.	n.a.	919	1,014	3,753	3,762	914	1,000
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	n.a.	n.a.	n.a.	919	-	-	1,092	-	1,000
Benchmark (500mio - below 1bn)	n.a.	n.a.	n.a.	n.a.	-	1,014	3,656	2,671	914	-
Others (below 500Mio)	n.a.	n.a.	n.a.	n.a.	-	-	98	-	-	-
Private Placement	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,014	3,753	3,762	914	1,000
Denominated in EURO	n.a.	n.a.	n.a.	n.a.	-	500	2,750	2,000	-	1,000
Denominated in domestic currency	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Denominated in other currencies	n.a.	n.a.	n.a.	n.a.	919	514	1,003	1,762	914	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,014	3,753	3,762	914	1,000
Hard Bullet	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	919	1,014	3,753	3,762	914	1,000
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,014	3,753	3,762	914	1,000
Issuance fixed coupon	n.a.	n.a.	n.a.	n.a.	919	500	3,265	3,092	445	1,000
Issuance floating coupon	n.a.	n.a.	n.a.	n.a.	-	514	489	671	469	-
Issuance other	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	919	1,014	3,753	3,762	914	1,000
<b>Number of New Issuers</b>	-	-	-	-	-	1	1	1	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.30 SLOVAKIA

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	3,768	3,835	4,067	3,939	4,198	4,197	5,118	4,858	6,658	7,337
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>3,768</b>	<b>3,835</b>	<b>4,067</b>	<b>3,939</b>	<b>4,198</b>	<b>4,197</b>	<b>5,118</b>	<b>4,858</b>	<b>6,658</b>	<b>7,337</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	-	-	-	-	-	2,000	2,500
Others (below 500Mio)	n.a.	1,606	1,477	1,197	927	-	-	-	1,050	1,050
Private Placement	n.a.	2,229	2,590	2,742	3,271	4,197	5,118	4,858	3,608	3,787
<b>Total</b>	<b>3,768</b>	<b>3,835</b>	<b>4,067</b>	<b>3,939</b>	<b>4,198</b>	<b>4,197</b>	<b>5,118</b>	<b>4,858</b>	<b>6,658</b>	<b>7,337</b>
Denominated in EURO	3,625	3,680	3,925	3,814	4,094	4,076	5,036	4,810	6,658	7,337
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	143	155	142	124	104	121	82	48	-	-
<b>Total</b>	<b>3,768</b>	<b>3,835</b>	<b>4,067</b>	<b>3,939</b>	<b>4,198</b>	<b>4,197</b>	<b>5,118</b>	<b>4,858</b>	<b>6,658</b>	<b>7,337</b>
Hard Bullet	3,768	3,835	4,067	3,939	4,198	4,197	5,118	4,058	3,608	2,787
Soft Bullet	-	-	-	-	-	-	-	800	3,050	4,550
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3,768</b>	<b>3,835</b>	<b>4,067</b>	<b>3,939</b>	<b>4,198</b>	<b>4,197</b>	<b>5,118</b>	<b>4,858</b>	<b>6,658</b>	<b>7,337</b>
Outstanding fixed coupon	1,886	2,224	2,611	2,754	3,262	3,197	4,235	4,372	6,358	7,337
Outstanding floating coupon	1,882	1,606	1,451	1,185	936	995	883	486	300	-
Outstanding other	-	5	5	-	-	5	-	-	-	-
<b>Total</b>	<b>3,768</b>	<b>3,835</b>	<b>4,067</b>	<b>3,939</b>	<b>4,198</b>	<b>4,197</b>	<b>5,118</b>	<b>4,858</b>	<b>6,658</b>	<b>7,337</b>
Number of Programmes	n.a.	n.a.	8	8	8	8	6	6	6	6
<b>Number of Issuers</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	867	785	841	654	1,159	751	1,316	800	2,250	1,500
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>867</b>	<b>785</b>	<b>841</b>	<b>654</b>	<b>1,159</b>	<b>751</b>	<b>1,316</b>	<b>800</b>	<b>2,250</b>	<b>1,500</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	-	-	-	-	-	-	-	2,000	500
Others (below 500Mio)	n.a.	248	167	154	-	-	-	-	250	-
Private Placement	n.a.	537	674	500	1,159	751	1,316	800	-	1,000
<b>Total</b>	<b>867</b>	<b>785</b>	<b>841</b>	<b>654</b>	<b>1,159</b>	<b>751</b>	<b>1,316</b>	<b>800</b>	<b>2,250</b>	<b>1,500</b>
Denominated in EURO	820	735	815	654	1,159	685	1,316	800	2,250	1,500
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	47	50	26	-	-	66	-	-	-	-
<b>Total</b>	<b>867</b>	<b>785</b>	<b>841</b>	<b>654</b>	<b>1,159</b>	<b>751</b>	<b>1,316</b>	<b>800</b>	<b>2,250</b>	<b>1,500</b>
Hard Bullet	867	785	841	654	1,159	751	1,316	-	-	-
Soft Bullet	-	-	-	-	-	-	-	800	2,250	1,500
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>867</b>	<b>785</b>	<b>841</b>	<b>654</b>	<b>1,159</b>	<b>751</b>	<b>1,316</b>	<b>800</b>	<b>2,250</b>	<b>1,500</b>
Issuance fixed coupon	414	703	757	585	940	690	1,316	800	2,250	1,500
Issuance floating coupon	452	77	84	69	219	56	-	-	-	-
Issuance other	-	5	-	-	-	5	-	-	-	-
<b>Total</b>	<b>867</b>	<b>785</b>	<b>841</b>	<b>654</b>	<b>1,159</b>	<b>751</b>	<b>1,316</b>	<b>800</b>	<b>2,250</b>	<b>1,500</b>
<b>Number of New Issuers</b>	<b>-</b>									
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>

## 5.2.31 SOUTH KOREA

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	2,171	2,407	2,536	1,349	1,954	2,490	2,619	2,771	6,241	7,928
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>2,171</b>	<b>2,407</b>	<b>2,536</b>	<b>1,349</b>	<b>1,954</b>	<b>2,490</b>	<b>2,619</b>	<b>2,771</b>	<b>6,241</b>	<b>7,928</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	500	1,000	3,000
<b>Public Placement</b>										
Benchmark (1bn and above)	773	758	725	-	-	-	-	-	-	1,000
Benchmark (500mio - below 1bn)	721	758	1,088	1,235	1,837	2,372	2,501	2,684	3,284	3,222
Others (below 500Mio)	-	-	-	-	-	118	117	-	-	-
<b>Private Placement</b>	<b>677</b>	<b>891</b>	<b>723</b>	<b>113</b>	<b>117</b>	<b>-</b>	<b>-</b>	<b>87</b>	<b>2,957</b>	<b>3,706</b>
<b>Total</b>	<b>2,171</b>	<b>2,407</b>	<b>2,536</b>	<b>1,349</b>	<b>1,954</b>	<b>2,490</b>	<b>2,619</b>	<b>2,771</b>	<b>6,241</b>	<b>7,928</b>
<b>Denominated in EURO</b>										
Denominated in domestic currency	527	740	723	113	117	118	117	-	2,869	3,706
Denominated in other currencies	1,644	1,667	1,813	1,235	1,837	2,372	2,501	2,271	2,372	1,222
<b>Total</b>	<b>2,171</b>	<b>2,407</b>	<b>2,536</b>	<b>1,349</b>	<b>1,954</b>	<b>2,490</b>	<b>2,618</b>	<b>2,771</b>	<b>6,241</b>	<b>7,928</b>
Hard Bullet	2,171	2,407	2,536	1,349	1,495	1,541	1,785	1,810	5,220	7,021
Soft Bullet	-	-	-	-	459	949	833	961	1,021	907
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,171</b>	<b>2,407</b>	<b>2,536</b>	<b>1,349</b>	<b>1,954</b>	<b>2,490</b>	<b>2,618</b>	<b>2,771</b>	<b>6,241</b>	<b>7,928</b>
Outstanding fixed coupon	2,021	2,255	2,536	1,349	1,954	2,490	2,619	2,771	6,241	7,928
Outstanding floating coupon	150	152	-	-	-	-	-	-	-	-
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,171</b>	<b>2,407</b>	<b>2,536</b>	<b>1,349</b>	<b>1,954</b>	<b>2,490</b>	<b>2,619</b>	<b>2,771</b>	<b>6,241</b>	<b>7,928</b>
Number of Programmes	2	2	2	1	2	2	2	2	5	6
<b>Number of Issuers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>6</b>
<b>Of which, Sustainable Issuers</b>	n.a.	1	1	2						
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	1,051	178	466	-	919	949	417	587	3,369	2,921
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>1,051</b>	<b>178</b>	<b>466</b>	<b>-</b>	<b>919</b>	<b>949</b>	<b>417</b>	<b>587</b>	<b>3,369</b>	<b>2,921</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	500	500	2,000
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	1,000
Benchmark (500mio - below 1bn)	374	-	363	-	919	949	417	500	500	1,000
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>	<b>677</b>	<b>178</b>	<b>103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>87</b>	<b>2,869</b>	<b>921</b>
<b>Total</b>	<b>1,051</b>	<b>178</b>	<b>466</b>	<b>-</b>	<b>919</b>	<b>949</b>	<b>417</b>	<b>587</b>	<b>3,369</b>	<b>2,921</b>
Denominated in EURO	-	-	-	-	-	-	-	500	500	2,000
Denominated in domestic currency	527	178	466	-	-	-	-	-	2,869	921
Denominated in other currencies	524	-	-	-	919	949	417	87	-	-
<b>Total</b>	<b>1,051</b>	<b>178</b>	<b>466</b>	<b>-</b>	<b>919</b>	<b>949</b>	<b>417</b>	<b>587</b>	<b>3,369</b>	<b>2,921</b>
Hard Bullet	1,051	178	466	-	459	474	417	500	3,369	2,421
Soft Bullet	-	-	-	-	459	474	-	87	-	500
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,051</b>	<b>178</b>	<b>466</b>	<b>-</b>	<b>919</b>	<b>949</b>	<b>417</b>	<b>587</b>	<b>3,369</b>	<b>2,921</b>
Issuance fixed coupon	901	178	466	-	919	949	417	587	3,369	2,921
Issuance floating coupon	150	-	-	-	-	-	-	-	-	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,051</b>	<b>178</b>	<b>466</b>	<b>-</b>	<b>919</b>	<b>949</b>	<b>417</b>	<b>587</b>	<b>3,369</b>	<b>2,921</b>
<b>Number of New Issuers</b>	-	-	-	-	1	-	-	-	3	1
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1	-	1

## 5.2.32 SPAIN

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Outstanding										
Public Sector	32,657	33,609	30,352	25,495	28,505	26,887	25,362	18,362	20,763	18,262
Mortgage	369,208	406,736	334,572	282,568	252,383	232,456	216,498	213,253	220,689	231,143
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	1,500	7,397
<b>Total Outstanding</b>	<b>401,865</b>	<b>440,345</b>	<b>364,924</b>	<b>308,063</b>	<b>280,888</b>	<b>259,344</b>	<b>241,860</b>	<b>231,615</b>	<b>242,952</b>	<b>256,802</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2,000	2,100
Public Placement										
Benchmark (1bn and above)	n.a.	243,207	211,343	172,344	156,845	129,777	107,096	96,706	89,506	83,910
Benchmark (500mio - below 1bn)	n.a.	11,850	14,098	10,714	11,690	12,190	10,190	9,850	4,410	3,510
Others (below 500Mio)	n.a.	200	-	-	-	-	-	-	5,000	6,282
Private Placement	n.a.	185,088	139,483	125,006	112,352	117,376	124,574	125,059	144,036	163,100
<b>Total</b>	<b>401,865</b>	<b>440,345</b>	<b>364,924</b>	<b>308,063</b>	<b>280,888</b>	<b>259,344</b>	<b>241,860</b>	<b>231,615</b>	<b>242,952</b>	<b>256,802</b>
Denominated in EURO	401,092	438,641	363,731	306,522	279,969	258,395	241,860	231,615	242,319	252,946
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	773	1,703	1,193	1,541	919	949	-	-	633	3,856
<b>Total</b>	<b>401,865</b>	<b>440,345</b>	<b>364,924</b>	<b>308,063</b>	<b>280,888</b>	<b>259,344</b>	<b>241,860</b>	<b>231,615</b>	<b>242,952</b>	<b>256,802</b>
Hard Bullet	401,865	440,345	364,924	308,063	280,888	259,344	241,860	231,615	242,952	256,802
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>401,865</b>	<b>440,345</b>	<b>364,924</b>	<b>308,063</b>	<b>280,888</b>	<b>259,344</b>	<b>241,860</b>	<b>231,615</b>	<b>242,952</b>	<b>256,802</b>
Outstanding fixed coupon	343,067	311,719	260,831	200,975	181,033	160,646	138,141	126,806	127,707	135,264
Outstanding floating coupon	58,797	128,625	103,631	107,088	99,855	98,698	103,299	104,450	115,245	121,538
Outstanding other	-	-	462	-	-	-	421	359	-	-
<b>Total</b>	<b>401,865</b>	<b>440,345</b>	<b>364,924</b>	<b>308,063</b>	<b>280,888</b>	<b>259,344</b>	<b>241,860</b>	<b>231,615</b>	<b>242,952</b>	<b>256,802</b>
Number of Programmes	n.a.	n.a.	40	39	40	35	33	31	29	26
<b>Number of Issuers</b>	<b>64</b>	<b>38</b>	<b>32</b>	<b>31</b>	<b>31</b>	<b>28</b>	<b>26</b>	<b>24</b>	<b>23</b>	<b>21</b>
<b>Of which, Sustainable Issuers</b>	n.a.	2	2							
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Issuance										
Public Sector	20,334	6,407	5,895	1,853	10,400	7,250	350	800	800	2,900
Mortgage	72,077	98,846	22,919	23,038	31,375	31,393	30,000	19,935	19,435	14,560
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	1,500	5,897
<b>Total Issuance</b>	<b>92,411</b>	<b>105,253</b>	<b>28,814</b>	<b>24,891</b>	<b>41,775</b>	<b>38,643</b>	<b>30,350</b>	<b>20,735</b>	<b>21,735</b>	<b>23,357</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-	100
Public Placement										
Benchmark (1bn and above)	n.a.	7,200	7,000	8,250	15,000	11,536	2,600	3,625	5,750	3,500
Benchmark (500mio - below 1bn)	n.a.	3,600	4,840	500	4,750	2,000	-	1,500	750	-
Others (below 500Mio)	n.a.	-	-	-	-	-	-	-	500	-
Private Placement	n.a.	94,453	16,974	16,141	22,025	25,107	27,750	15,610	14,735	19,857
<b>Total</b>	<b>92,411</b>	<b>105,253</b>	<b>28,814</b>	<b>24,891</b>	<b>41,775</b>	<b>38,643</b>	<b>30,350</b>	<b>20,735</b>	<b>21,735</b>	<b>23,357</b>
Denominated in EURO	92,411	105,253	28,814	24,891	41,775	38,643	30,350	20,735	21,735	20,260
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	3,097
<b>Total</b>	<b>92,411</b>	<b>105,253</b>	<b>28,814</b>	<b>24,891</b>	<b>41,775</b>	<b>38,643</b>	<b>30,350</b>	<b>20,735</b>	<b>21,735</b>	<b>23,357</b>
Hard Bullet	92,411	105,253	28,814	24,891	41,775	38,643	30,350	20,735	21,735	23,357
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>92,411</b>	<b>105,253</b>	<b>28,814</b>	<b>24,891</b>	<b>41,775</b>	<b>38,643</b>	<b>30,350</b>	<b>20,735</b>	<b>21,735</b>	<b>23,357</b>
Issuance fixed coupon	52,507	27,559	16,169	8,800	23,837	25,043	10,198	5,821	7,760	9,060
Issuance floating coupon	39,904	77,694	12,445	16,091	17,938	13,600	20,152	14,914	13,975	14,297
Issuance other	-	-	200	-	-	-	-	-	-	-
<b>Total</b>	<b>92,411</b>	<b>105,253</b>	<b>28,814</b>	<b>24,891</b>	<b>41,775</b>	<b>38,643</b>	<b>30,350</b>	<b>20,735</b>	<b>21,735</b>	<b>23,357</b>
<b>Number of New Issuers</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	-

Source: AIAF, Bloomberg, Reuters, Moody's, Fitch, S&P, ECBC

Note: Please note that the breakdown public vs private placements is an estimation made by the ECBC.

Please also note that the methodology used for counting the number of issuers has changed. Until 2011, the number of "new issuers" included the new financial institutions established as part of the restructuring of the Spanish banking sector whose inaugural issue occurred during the year of reporting. The number of issuers also included all the former financial institutions with outstanding covered bonds at the end of each year - even if, as a consequence of the aforementioned restructuring, they were integrated into a new one - along with the new institutions. From 2012 onwards, however, only the new entities are reported as active issuers.

### 5.2.33 SWEDEN

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	208,894	220,374	217,854	209,842	221,990	222,444	219,212	217,979	235,111	247,713
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>208,894</b>	<b>220,374</b>	<b>217,854</b>	<b>209,842</b>	<b>221,990</b>	<b>222,444</b>	<b>219,212</b>	<b>217,979</b>	<b>235,111</b>	<b>247,713</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,362	1,668
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	175,163	173,333	163,281	172,823	177,385	173,105	171,336	185,661	196,370
Benchmark (500mio - below 1bn)	n.a.	8,234	10,775	12,149	14,836	13,623	16,212	18,046	20,876	17,916
Others (below 500Mio)	n.a.	29,055	26,071	26,047	24,859	22,918	23,432	18,117	18,312	21,227
<b>Private Placement</b>	n.a.	<b>7,921</b>	<b>7,676</b>	<b>8,364</b>	<b>9,472</b>	<b>8,518</b>	<b>6,463</b>	<b>10,481</b>	<b>10,262</b>	<b>12,200</b>
<b>Total</b>	<b>208,894</b>	<b>220,374</b>	<b>217,854</b>	<b>209,842</b>	<b>221,990</b>	<b>222,444</b>	<b>219,212</b>	<b>217,979</b>	<b>235,111</b>	<b>247,713</b>
Denominated in EURO	37,554	39,995	39,423	36,108	37,931	38,224	39,094	43,610	47,301	44,962
Denominated in domestic currency	159,628	164,501	161,651	156,791	165,682	167,831	165,874	164,307	178,854	195,770
Denominated in other currencies	11,712	15,878	16,780	16,942	18,377	16,389	14,244	10,062	8,956	6,982
<b>Total</b>	<b>208,894</b>	<b>220,374</b>	<b>217,854</b>	<b>209,842</b>	<b>221,990</b>	<b>222,444</b>	<b>219,212</b>	<b>217,979</b>	<b>235,111</b>	<b>247,713</b>
Hard Bullet	208,894	220,374	217,854	208,848	216,945	214,177	207,424	203,566	217,145	234,715
Soft Bullet	-	-	-	993	5,045	8,267	11,788	14,413	17,966	12,998
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>208,894</b>	<b>220,374</b>	<b>217,854</b>	<b>209,842</b>	<b>221,990</b>	<b>222,444</b>	<b>219,212</b>	<b>217,979</b>	<b>235,111</b>	<b>247,713</b>
Outstanding fixed coupon	191,013	198,372	195,770	187,395	200,034	201,061	199,424	200,840	215,500	219,770
Outstanding floating coupon	17,659	21,778	22,055	22,432	21,956	21,383	19,788	17,139	19,611	27,943
Outstanding other	222	224	29	14	-	-	-	-	-	-
<b>Total</b>	<b>208,894</b>	<b>220,374</b>	<b>217,854</b>	<b>209,842</b>	<b>221,990</b>	<b>222,444</b>	<b>219,212</b>	<b>217,979</b>	<b>235,111</b>	<b>247,713</b>
Number of Programmes	n.a.	n.a.	10	10	9	10	10	12	12	12
<b>Number of Issuers</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Of which, Sustainable Issuers</b>	n.a.	2	2							
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	69,800	48,936	51,633	48,424	60,729	52,187	48,525	54,199	53,258	53,222
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>69,800</b>	<b>48,936</b>	<b>51,633</b>	<b>48,424</b>	<b>60,729</b>	<b>52,187</b>	<b>48,525</b>	<b>54,199</b>	<b>53,258</b>	<b>53,222</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	859	249
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	37,148	35,519	34,881	47,756	37,508	30,206	34,876	34,618	38,196
Benchmark (500mio - below 1bn)	n.a.	92	6,753	5,989	5,608	7,360	7,766	10,715	8,140	1,124
Others (below 500Mio)	n.a.	10,078	8,276	5,883	6,410	6,895	10,315	6,027	9,241	10,936
Private Placement	n.a.	1,620	1,086	1,672	955	424	237	2,582	1,258	2,966
<b>Total</b>	<b>69,800</b>	<b>48,936</b>	<b>51,633</b>	<b>48,424</b>	<b>60,729</b>	<b>52,187</b>	<b>48,525</b>	<b>54,199</b>	<b>53,258</b>	<b>53,222</b>
Denominated in EURO	13,263	2,485	5,745	6,531	10,066	7,065	11,689	5,620	7,814	3,855
Denominated in domestic currency	52,118	41,971	41,220	39,866	47,364	43,741	34,981	46,375	44,388	47,027
Denominated in other currencies	4,419	4,481	4,668	2,027	3,299	1,381	1,855	2,204	1,055	2,340
<b>Total</b>	<b>69,800</b>	<b>48,936</b>	<b>51,633</b>	<b>48,424</b>	<b>60,729</b>	<b>52,187</b>	<b>48,525</b>	<b>54,199</b>	<b>53,258</b>	<b>53,222</b>
Hard Bullet	69,800	48,936	51,633	47,464	56,642	50,005	44,881	50,571	49,125	51,646
Soft Bullet	-	-	-	960	4,087	2,182	3,643	3,628	4,134	1,576
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>69,800</b>	<b>48,936</b>	<b>51,633</b>	<b>48,424</b>	<b>60,729</b>	<b>52,187</b>	<b>48,525</b>	<b>54,199</b>	<b>53,258</b>	<b>53,222</b>
Issuance fixed coupon	53,137	38,294	42,949	41,346	54,618	46,046	44,358	47,056	46,947	41,349
Issuance floating coupon	16,562	10,642	8,684	7,077	6,111	6,141	4,166	7,143	6,311	11,873
Issuance other	102	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>69,800</b>	<b>48,936</b>	<b>51,633</b>	<b>48,424</b>	<b>60,729</b>	<b>52,187</b>	<b>48,525</b>	<b>54,199</b>	<b>53,258</b>	<b>53,222</b>
<b>Number of New Issuers</b>	-	-	1	-	-	-	-	2	-	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1	-

Note: In the Swedish domestic market it is common practice to tap issue and to buy back issuances if the bond has a maturity of less than 12-18 months. In order to best represent the liquidity of the market, tapped issuance which per ECBC definition fall under private placement have been considered as public placement according to the benchmark of their yearly cumulative issuance and their size of outstanding volume. This explains the discrepancy between the figures of the Fact Book and the Covered Bond Label.

## 5.2.34 SWITZERLAND

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Outstanding CBs - Pfandbriefe	60,729	67,652	71,716	78,468	95,940	105,012	101,962	110,556	120,798	131,702
Outstanding CBs - Structured	11,152	18,055	17,348	21,967	15,602	12,553	9,670	8,867	7,450	8,914
<b>Total Outstanding</b>	<b>71,881</b>	<b>85,707</b>	<b>89,064</b>	<b>100,436</b>	<b>111,542</b>	<b>117,564</b>	<b>111,632</b>	<b>119,422</b>	<b>128,248</b>	<b>140,617</b>
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	17,926	17,120	21,133	14,898	11,500	8,750	7,500	4,750	4,750
Benchmark (500mio - below 1bn)	n.a.	23,839	6,218	40,767	60,457	64,107	59,627	74,316	83,100	94,691
Others (below 500Mio)	n.a.	35,986	61,351	37,701	35,483	41,247	42,549	37,505	39,727	40,403
Private Placement	n.a.	7,956	4,376	834	704	710	706	101	671	773
<b>Total</b>	<b>71,881</b>	<b>85,707</b>	<b>89,064</b>	<b>100,436</b>	<b>111,542</b>	<b>117,564</b>	<b>111,632</b>	<b>119,422</b>	<b>128,248</b>	<b>140,617</b>
Denominated in EURO	10,250	13,000	11,500	15,350	13,100	12,100	9,350	8,101	5,350	5,350
Denominated in domestic currency	60,729	67,652	71,716	78,468	95,940	105,012	102,176	111,221	122,827	135,200
Denominated in other currencies	902	5,055	5,848	6,617	2,502	453	106	100	71	67
<b>Total</b>	<b>71,881</b>	<b>85,707</b>	<b>89,064</b>	<b>100,436</b>	<b>111,542</b>	<b>117,564</b>	<b>111,632</b>	<b>119,422</b>	<b>128,248</b>	<b>140,617</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	105,464	102,068	111,256	121,398	132,302
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	12,100	9,564	8,167	6,850	8,315
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>71,881</b>	<b>85,707</b>	<b>89,064</b>	<b>100,436</b>	<b>111,542</b>	<b>117,564</b>	<b>111,632</b>	<b>119,422</b>	<b>128,248</b>	<b>140,617</b>
Outstanding fixed coupon	71,752	85,707	89,064	100,312	111,542	117,564	111,632	119,422	128,248	140,617
Outstanding floating coupon	-	-	-	124	-	-	-	-	-	-
Outstanding other	129	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>71,881</b>	<b>85,707</b>	<b>89,064</b>	<b>100,436</b>	<b>111,542</b>	<b>117,564</b>	<b>111,632</b>	<b>119,422</b>	<b>128,248</b>	<b>140,617</b>
Number of Programmes	n.a.	n.a.	4	4	4	4	5	5	6	8
<b>Number of Issuers</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Of which, Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
New Issues of CBs - Pfandbriefe	11,227	12,804	12,568	13,343	15,840	16,106	12,708	13,282	14,022	19,050
New Issues of CBs - Structured	4,152	6,919	1,015	5,850	-	-	214	444	1,338	1,458
<b>Total Issuance</b>	<b>15,379</b>	<b>19,723</b>	<b>13,583</b>	<b>19,193</b>	<b>15,840</b>	<b>16,106</b>	<b>12,922</b>	<b>13,725</b>	<b>15,360</b>	<b>20,508</b>
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	6,919	906	5,250	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	2,394	2,171	4,562	8,822	3,850	2,437	2,983	2,036	5,453
Others (below 500Mio)	n.a.	10,410	10,397	8,782	7,018	12,256	10,485	10,742	13,324	14,949
Private Placement	n.a.	-	109	600	-	-	-	-	-	106
<b>Total</b>	<b>15,379</b>	<b>19,723</b>	<b>13,583</b>	<b>19,193</b>	<b>15,840</b>	<b>16,106</b>	<b>12,922</b>	<b>13,725</b>	<b>15,360</b>	<b>20,508</b>
Denominated in EURO	3,250	2,750	-	5,850	-	-	-	-	-	-
Denominated in domestic currency	11,227	12,804	12,568	13,343	15,840	16,106	12,922	13,725	15,360	20,508
Denominated in other currencies	902	4,169	1,015	-	-	-	-	-	-	-
<b>Total</b>	<b>15,379</b>	<b>19,723</b>	<b>13,583</b>	<b>19,193</b>	<b>15,840</b>	<b>16,106</b>	<b>12,922</b>	<b>13,725</b>	<b>15,360</b>	<b>20,508</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	16,106	12,708	13,282	14,022	19,050
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	-	214	444	1,338	1,458
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>15,379</b>	<b>19,723</b>	<b>13,583</b>	<b>19,193</b>	<b>15,840</b>	<b>16,106</b>	<b>12,922</b>	<b>13,725</b>	<b>15,360</b>	<b>20,508</b>
Issuance fixed coupon	15,250	19,723	13,474	19,193	15,840	16,106	12,922	13,725	15,360	20,508
Issuance floating coupon	-	-	109	-	-	-	-	-	-	-
Issuance other	129	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>15,379</b>	<b>19,723</b>	<b>13,583</b>	<b>19,193</b>	<b>15,840</b>	<b>16,106</b>	<b>12,922</b>	<b>13,725</b>	<b>15,360</b>	<b>20,508</b>
<b>Number of New Issuers</b>	-	-	-	-	-	-	1	-	1	1
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Note: from 2008 only Limmat bonds are considered as "Private Placements"

## 5.2.35 TURKEY

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Mortgage	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,334	2,560	1,755
Ships	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Others	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total Outstanding</b>	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,334	2,560	1,755
<b>Of which, total Sustainable CB</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	n.a.	n.a.	n.a.	-	500	500	500	500	500
Others (below 500Mio)	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Private Placement</b>	n.a.	n.a.	n.a.	n.a.	128	128	1,423	1,834	2,060	1,255
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,334	2,560	1,755
Denominated in EURO	n.a.	n.a.	n.a.	n.a.	-	500	500	500	-	500
Denominated in domestic currency	n.a.	n.a.	n.a.	n.a.	128	128	1,423	1,834	2,560	1,255
Denominated in other currencies	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,334	2,560	1,755
Hard Bullet	n.a.	n.a.	n.a.	n.a.	-	-	-	68	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,266	2,560	1,755
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,334	2,560	1,755
Outstanding fixed coupon	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,334	2,560	1,755
Outstanding floating coupon	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Outstanding other	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	628	1,923	2,334	2,560	1,755
Number of Programmes	n.a.	n.a.	n.a.	n.a.	1	1	4	6	7	7
<b>Number of Issuers</b>	n.a.	n.a.	n.a.	n.a.	1	1	4	6	1	-
<b>Of which, Sustainable Issuers</b>	n.a.									
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Mortgage	n.a.	n.a.	n.a.	n.a.	128	500	1,334	766	227	-
Ships	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Others	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total Issuance</b>	n.a.	n.a.	n.a.	n.a.	128	500	1,334	766	227	-
<b>Of which, Sustainable CB Issuance</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Public Placement</b>										
Benchmark (1bn and above)	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	n.a.	n.a.	n.a.	n.a.	-	500	-	-	-	-
Others (below 500Mio)	n.a.	n.a.	n.a.	n.a.	-	-	-	-	227	-
<b>Private Placement</b>	n.a.	n.a.	n.a.	n.a.	128	-	1,334	766	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	500	1,334	766	227	-
Denominated in EURO	n.a.	n.a.	n.a.	n.a.	-	500	-	-	-	-
Denominated in domestic currency	n.a.	n.a.	n.a.	n.a.	128	-	1,334	766	227	-
Denominated in other currencies	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	500	1,334	766	227	-
Hard Bullet	n.a.	n.a.	n.a.	n.a.	-	-	-	68	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	128	500	1,334	698	227	-
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	500	1,334	766	227	-
Issuance fixed coupon	n.a.	n.a.	n.a.	n.a.	128	500	1,334	766	227	-
Issuance floating coupon	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
Issuance other	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-	-
<b>Total</b>	n.a.	n.a.	n.a.	n.a.	128	500	1,334	766	227	-
<b>Number of New Issuers</b>	n.a.	n.a.	n.a.	n.a.	1	1	2	2	1	-
<b>Number of New Sustainable Issuers</b>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

## 5.2.36 UNITED KINGDOM

Outstanding (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Outstanding										
Regulated - Mortgages	121,623	147,425	114,395	114,654	106,674	97,127	89,509	93,530	108,857	96,012
Regulated - Public Sector	-	-	-	-	-	-	-	-	-	-
Non-regulated - Mortgages	63,429	37,818	18,077	16,143	8,236	-	-	-	-	1,112
Non-regulated - Public Sector	3,656	3,742	5,784	6,152	6,358	4,894	4,697	4,662	705	667
<b>Total Outstanding</b>	<b>188,707</b>	<b>188,985</b>	<b>138,255</b>	<b>136,949</b>	<b>121,268</b>	<b>102,021</b>	<b>94,206</b>	<b>98,192</b>	<b>109,562</b>	<b>97,791</b>
<b>Of which, total Sustainable CB</b>	<b>n.a.</b>     <b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>							
Public Placement										
Benchmark (1bn and above)	147,473	148,608	112,064	107,687	93,997	75,733	70,229	72,312	87,503	72,679
Benchmark (500mio - below 1bn)	29,424	27,127	13,341	16,995	10,233	9,546	7,548	11,457	12,164	13,609
Others (below 500Mio)	9,231	9,137	8,637	7,948	971	280	248	-	-	50
Private Placement	2,580	4,113	4,213	4,319	16,068	16,462	16,181	14,423	9,895	11,454
<b>Total</b>	<b>188,707</b>	<b>188,985</b>	<b>138,255</b>	<b>136,949</b>	<b>121,268</b>	<b>102,021</b>	<b>94,206</b>	<b>98,192</b>	<b>109,562</b>	<b>97,791</b>
Denominated in EURO	102,084	118,667	84,633	77,968	67,651	57,703	55,876	56,426	58,096	48,159
Denominated in domestic currency	76,905	61,012	44,957	50,972	47,613	38,532	36,977	40,482	48,854	45,551
Denominated in other currencies	9,718	9,306	8,665	8,009	6,004	5,786	1,353	1,284	2,612	4,081
<b>Total</b>	<b>188,707</b>	<b>188,985</b>	<b>138,255</b>	<b>136,949</b>	<b>121,268</b>	<b>102,021</b>	<b>94,206</b>	<b>98,192</b>	<b>109,562</b>	<b>97,791</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	7,508	5,331	2,581	2,581	2,581
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	91,028	85,531	92,291	106,981	95,210
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	3,485	3,344	3,320	-	-
<b>Total</b>	<b>188,707</b>	<b>188,985</b>	<b>138,255</b>	<b>136,949</b>	<b>121,268</b>	<b>102,021</b>	<b>94,206</b>	<b>98,192</b>	<b>109,562</b>	<b>97,791</b>
Outstanding fixed coupon	111,426	123,888	106,995	101,816	91,567	78,951	72,038	71,144	74,833	65,195
Outstanding floating coupon	77,282	65,097	31,260	35,133	29,701	23,070	22,168	27,048	34,729	32,596
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>188,707</b>	<b>188,985</b>	<b>138,255</b>	<b>136,949</b>	<b>121,268</b>	<b>102,021</b>	<b>94,206</b>	<b>98,192</b>	<b>109,562</b>	<b>97,791</b>
Number of Programmes	n.a.	n.a.	18	17	16	14	14	14	15	16
<b>Number of Issuers</b>	<b>16</b>	<b>15</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>12</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>16</b>
<b>Of which, Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Issuance (in EUR million)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Covered Bonds Issuance										
Regulated - Mortgages	36,983	37,109	1,480	12,529	15,015	9,599	11,563	14,916	22,959	9,089
Regulated - Public Sector	-	-	-	-	-	-	-	-	-	-
Non-regulated - Mortgages	-	-	-	-	-	-	-	-	-	1,112
Non-regulated - Public Sector	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>	<b>36,983</b>	<b>37,109</b>	<b>1,480</b>	<b>12,529</b>	<b>15,015</b>	<b>9,599</b>	<b>11,563</b>	<b>14,916</b>	<b>22,959</b>	<b>10,201</b>
<b>Of which, Sustainable CB Issuance</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
Public Placement										
Benchmark (1bn and above)	20,190	22,921	1,000	9,135	11,540	6,701	10,013	12,224	19,629	7,643
Benchmark (500mio - below 1bn)	9,659	9,432	-	2,892	2,159	1,381	1,500	2,662	2,850	500
Others (below 500Mio)	5,734	3,222	380	396	409	-	-	-	-	-
Private Placement	1,400	1,534	100	106	907	1,517	50	30	480	2,058
<b>Total</b>	<b>36,983</b>	<b>37,109</b>	<b>1,480</b>	<b>12,529</b>	<b>15,015</b>	<b>9,599</b>	<b>11,563</b>	<b>14,916</b>	<b>22,959</b>	<b>10,201</b>
Denominated in EURO	27,211	20,024	1,480	6,406	8,135	6,833	4,800	4,030	7,620	1,750
Denominated in domestic currency	8,290	15,041	-	6,123	6,880	2,766	6,763	10,231	13,989	6,617
Denominated in other currencies	1,482	2,044	-	-	-	-	-	655	1,350	1,834
<b>Total</b>	<b>36,983</b>	<b>37,109</b>	<b>1,480</b>	<b>12,529</b>	<b>15,015</b>	<b>9,599</b>	<b>11,563</b>	<b>14,916</b>	<b>22,959</b>	<b>10,201</b>
Hard Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
Soft Bullet	n.a.	n.a.	n.a.	n.a.	n.a.	9,599	11,563	14,916	22,959	10,201
Conditional Pass Through	n.a.	n.a.	n.a.	n.a.	n.a.	-	-	-	-	-
<b>Total</b>	<b>36,983</b>	<b>37,109</b>	<b>1,480</b>	<b>12,529</b>	<b>15,015</b>	<b>9,599</b>	<b>11,563</b>	<b>14,916</b>	<b>22,959</b>	<b>10,201</b>
Issuance fixed coupon	35,102	17,991	1,200	6,406	8,816	6,808	4,800	4,685	8,970	3,584
Issuance floating coupon	1,881	19,118	280	6,123	6,199	2,791	6,763	10,231	13,989	6,617
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>36,983</b>	<b>37,109</b>	<b>1,480</b>	<b>12,529</b>	<b>15,015</b>	<b>9,599</b>	<b>11,563</b>	<b>14,916</b>	<b>22,959</b>	<b>10,201</b>
<b>Number of New Issuers</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Number of New Sustainable Issuers</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>

Note: There are 14 Regulated issuers each with one Regulated residential mortgage programme (two regulated issuers also have unregulated programmes).

Please refer to the FCA's website for more details of the Regulated issues (<http://www.fca.org.uk/firms/systems-reporting/regulated-covered-bonds-register>).

## 5.2.37 UNITED STATES

<b>Outstanding (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Outstanding</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	9,546	6,000	6,000	4,000	4,000	2,000	-	-	-	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Outstanding</b>	<b>9,546</b>	<b>6,000</b>	<b>6,000</b>	<b>4,000</b>	<b>4,000</b>	<b>2,000</b>	-	-	-	-
<b>Of which, total Sustainable CB</b>										
<b>Public Placement</b>										
Benchmark (1bn and above)	9,546	6,000	6,000	4,000	4,000	2,000	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>										
<b>Total</b>	<b>9,546</b>	<b>6,000</b>	<b>6,000</b>	<b>4,000</b>	<b>4,000</b>	<b>2,000</b>	-	-	-	-
<b>Denominated in EURO</b>	<b>8,000</b>	<b>6,000</b>	<b>6,000</b>	<b>4,000</b>	<b>4,000</b>	<b>2,000</b>	-	-	-	-
<b>Denominated in domestic currency</b>	<b>1,546</b>						-	-	-	-
<b>Denominated in other currencies</b>		-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>9,546</b>	<b>6,000</b>	<b>6,000</b>	<b>4,000</b>	<b>4,000</b>	<b>2,000</b>	-	-	-	-
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	9,546	6,000	6,000	4,000	4,000	2,000	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>9,546</b>	<b>6,000</b>	<b>6,000</b>	<b>4,000</b>	<b>4,000</b>	<b>2,000</b>	-	-	-	-
Outstanding fixed coupon	9,546	6,000	6,000	4,000	4,000	2,000	-	-	-	-
Outstanding floating coupon	-	-	-	-	-	-	-	-	-	-
Outstanding other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>9,546</b>	<b>6,000</b>	<b>6,000</b>	<b>4,000</b>	<b>4,000</b>	<b>2,000</b>	-	-	-	-
<b>Number of Programmes</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	-	-	-	-
<b>Number of Issuers</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-	-
<b>Of which, Sustainable Issuers</b>										
<b>Issuance (in EUR million)</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Total Covered Bonds Issuance</b>										
Public Sector	-	-	-	-	-	-	-	-	-	-
Mortgage	-	-	-	-	-	-	-	-	-	-
Ships	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
<b>Total Issuance</b>										
<b>Of which, Sustainable CB Issuance</b>										
<b>Public Placement</b>										
Benchmark (1bn and above)	-	-	-	-	-	-	-	-	-	-
Benchmark (500mio - below 1bn)	-	-	-	-	-	-	-	-	-	-
Others (below 500Mio)	-	-	-	-	-	-	-	-	-	-
<b>Private Placement</b>										
<b>Total</b>	<b>-</b>      <b>-</b>	<b>-</b>	<b>-</b>							
Denominated in EURO	-	-	-	-	-	-	-	-	-	-
Denominated in domestic currency	-	-	-	-	-	-	-	-	-	-
Denominated in other currencies	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>      <b>-</b>	<b>-</b>	<b>-</b>							
Hard Bullet	-	-	-	-	-	-	-	-	-	-
Soft Bullet	-	-	-	-	-	-	-	-	-	-
Conditional Pass Through	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>      <b>-</b>	<b>-</b>	<b>-</b>							
Issuance fixed coupon	-	-	-	-	-	-	-	-	-	-
Issuance floating coupon	-	-	-	-	-	-	-	-	-	-
Issuance other	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>      <b>-</b>	<b>-</b>	<b>-</b>							
<b>Number of New Issuers</b>	-	-	-	-	-	-	-	-	-	-
<b>Number of New Sustainable Issuers</b>										

## 5.2.38 ANNEX: EUROPEAN CENTRAL BANK EXCHANGE RATES WITH THE EURO, YEAR END

	Australian dollar	Brazilian real	Canadian dollar	Swiss franc	Czech koruna	Danish krone	UK pound sterling
2005	1.6109	2.7462	1.3725	1.5551	29	7.4605	0.6853
2006	1.6691	2.8141	1.5281	1.6069	27.485	7.456	0.6715
2007	1.6757	2.5914	1.4449	1.6547	26.628	7.4583	0.73335
2008	2.0274	3.2436	1.6998	1.485	26.875	7.4506	0.9525
2009	1.6008	2.5113	1.5128	1.4836	26.473	7.4418	0.8881
2010	1.3136	2.2177	1.3322	1.2504	25.061	7.4535	0.86075
2011	1.2723	2.4159	1.3215	1.2156	25.787	7.4342	0.8353
2012	1.2712	2.7036	1.3137	1.2072	25.151	7.461	0.8161
2013	1.5423	3.2576	1.4671	1.2276	27.427	7.4593	0.8337
2014	1.4829	3.2207	1.4063	1.2024	27.735	7.4453	0.7789
2015	1.4897	4.3117	1.5116	1.0835	27.023	7.4626	0.73395
2016	1.4596	3.4305	1.4188	1.0739	27.021	7.4344	0.85618
2017	1.5346	3.9729	1.5039	1.1702	25.535	7.4449	0.88723
2018	1.622	4.444	1.5605	1.1269	25.724	7.4673	0.89453
2019	1.5995	4.5157	1.4598	1.0854	25.408	7.4715	0.8508
2020	<b>1.5896</b>	<b>6.3735</b>	<b>1.5633</b>	<b>1.0802</b>	<b>26.242</b>	<b>7.4409</b>	<b>0.89903</b>

	Hong Kong dollar	Hungarian forint	Iceland krona	Japanese yen	Korean won (Republic)	Lithuanian litas	Latvian lats
2005	9.1474	252.87	74.57	138.9	1184.42	3.4528	0.6962
2006	10.2409	251.77	93.13	156.93	1224.81	3.4528	0.6972
2007	11.48	253.73	91.9	164.93	1377.96	3.4528	0.6964
2008	10.7858	266.7	250*	126.14	1839.13	3.4528	0.7083
2009	11.1709	270.42	179.48*	133.16	1666.97	3.4528	0.7093
2010	10.3856	277.95	153.78*	108.65	1499.06	3.4528	0.7094
2011	10.051	314.58	159*	100.2	1498.69	3.4528	0.6995
2012	10.226	292.3	168.91*	113.61	1406.23	3.4528	0.6977
2013	10.6933	297.04	158.29**	144.72	1450.93	3.4528	0.7028
2014	9.417	315.54	154.31**	145.23	1324.8	3.4528	1.000
2015	8.4376	315.98	141.38**	131.07	1280.8	1.000	1.000
2016	8.1751	309.83	119.15**	123.4	1269.36	1.000	1.000
2017	9.372	310.33	124.30**	135.01	1279.61	1.000	1.000
2018	8.9675	320.98	127.89	125.85	1277.93	1.000	1.000
2019	8.7473	330.53	137.28	121.94	1296.28	1.000	1.000
2020	<b>9.5142</b>	<b>363.89</b>	<b>154.59</b>	<b>126.49</b>	<b>1336.00</b>	<b>1.000</b>	<b>1.000</b>

\* Bloomberg "Compound New York" Rates, \*\* Bloomberg "Bloomberg Generic Pricing (BGN)" Rates (On December 10, 2008, the European Central Bank has stopped publishing foreign exchange reference rates of the Icelandic Króna, but it resumed on February 2018).

	Norwegian krone	New Zealand dollar	Polish złoty	Swedish krona	Singapore dollar	Turkish lira	US dollar
2005	7.985	1.727	3.86	9.3885	1.9628	1.5924	1.1797
2006	8.238	1.8725	3.831	9.0404	2.0202	1.864	1.317
2007	7.958	1.9024	3.5935	9.4415	2.1163	1.717	1.4721
2008	9.75	2.4191	4.1535	10.87	2.004	2.1488	1.3917
2009	8.3	1.9803	4.1045	10.252	2.0194	2.1547	1.4406
2010	7.8	1.72	3.975	8.9655	1.7136	2.0694	1.3362
2011	7.754	1.6737	4.458	8.912	1.6819	2.4432	1.2939
2012	7.3483	1.6045	4.074	8.582	1.6111	2.3551	1.3194
2013	8.363	1.6762	4.1543	8.8591	1.7414	2.9605	1.3791
2014	9.042	1.5525	4.2732	9.393	1.6058	2.832	1.2141
2015	9.603	1.5923	4.2639	9.1895	1.5417	3.1765	1.0887
2016	9.0863	1.5158	4.4103	9.5525	1.5234	3.7072	1.0541
2017	9.8403	1.685	4.177	9.8438	1.6024	4.5464	1.1993
2018	9.9483	1.7056	4.3014	10.2548	1.5591	6.0588	1.145
2019	9.8638	1.6653	4.2568	10.4468	1.5111	6.6843	1.1234
2020	<b>10.4703</b>	<b>1.6984</b>	<b>4.5597</b>	<b>10.0343</b>	<b>1.6218</b>	<b>9.1131</b>	<b>1.2271</b>

Source: European Central Bank (ECB), [Statistics Data Warehouse](#).

Note: The Euro is the denominator.

Note: The exchange rate protocol used for ECBC covered bond statistics is to take the ECB bilateral exchange rate on the last business day of the year.







## EUROPEAN COVERED BOND FACT BOOK 2021 edition

