

USGBC

We can make buildings more efficient using a comprehensive framework

- Technology
- Policy
- **Capacity**
- Finance





What is Green Building?





Common features

- Third party review
- Above baseline buildings
- Credits or points
 - Minimum requirements
 - Optional
- Systems updated to stay above code
- Different building types, new and existing



Thematic considerations

- Performance & measurement
- Life Cycle Assessment
 - Whole Building
 - Materials
- Life Cycle Cost Analysis
- Environmental Product Declarations
- Health Product Declarations
- Local Materials
- Innovation
- Flexibility



How Green Building Certification Systems Work



Green Building Systems

- Categories of building impacts
 - Environmental
 - Human health & wellness
 - Social
- Ocumentation, worksheet, and/or score
- Pass/fail certification, or different levels/ratings





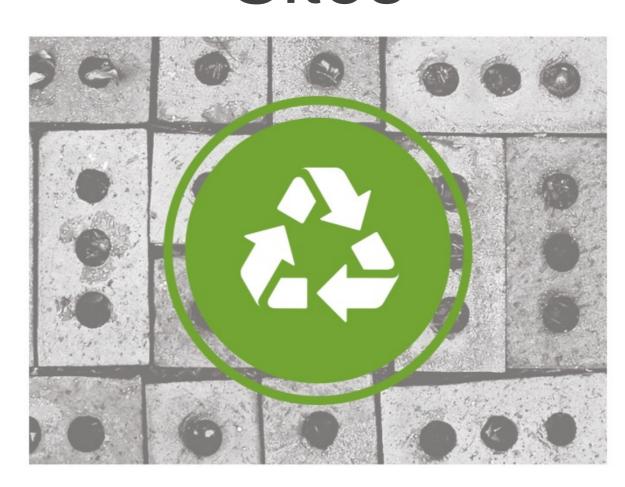
Location & Transportation



Energy & Atmosphere



Sustainable Sites



Materials & Resources



Water Efficiency



Indoor Envtl.
Quality



Prerequisites

- Fundamental Commissioning and Verification
- Minimum Energy Performance
- Building-Level Energy Metering
- ✓ Fundamental Refrigerant Management

Optional Credits

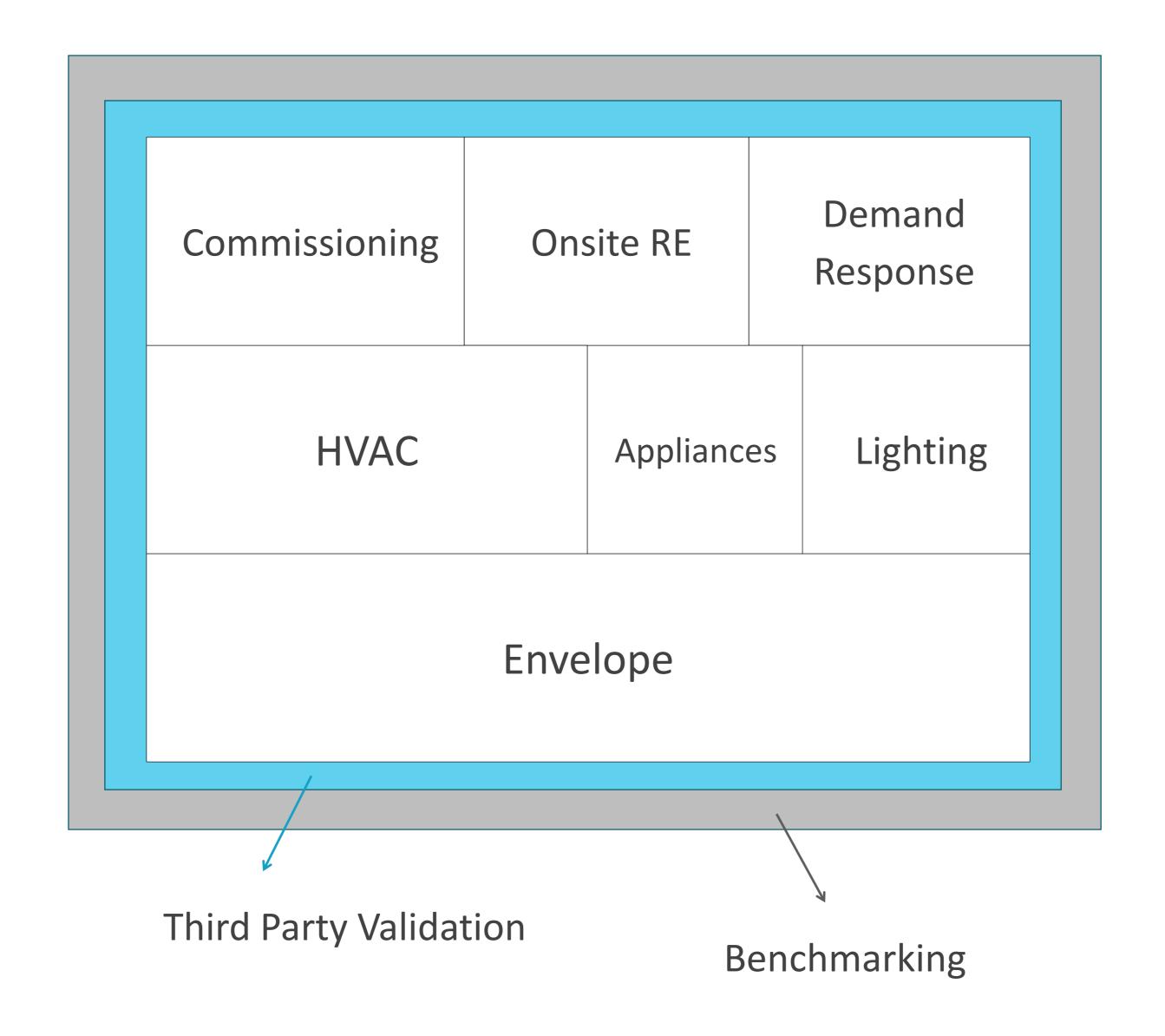
- Enhanced Commissioning
- ✓ Optimize Energy Performance
- Advanced Energy Metering
- Demand Response
- Renewable Energy Production
- ✓ Enhanced Refrigerant Management
- ✓ Green Power and Carbon Offsets



Certification models promote accountability and provide assurance

- Documentation
- Operating data
- Third party review

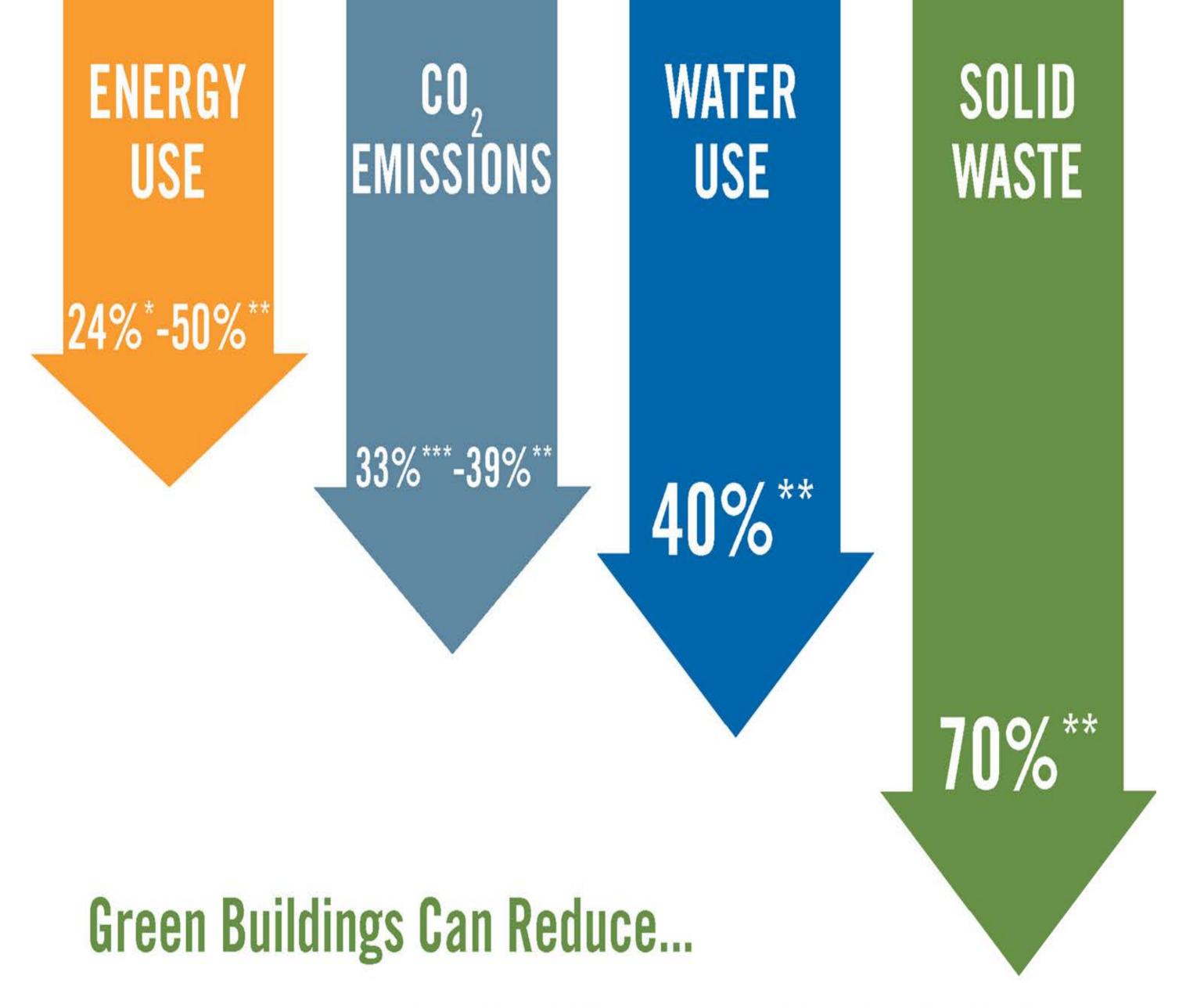






Benefits for Cities





*Turner, C. & Frankel, M. (2008). Energy performance of LEED for New Construction buildings: Final report.

** Kats, G. (2003). The Costs and Financial Benefits of Green Building: A Report to California's Sustainable Building Task Fqrge.

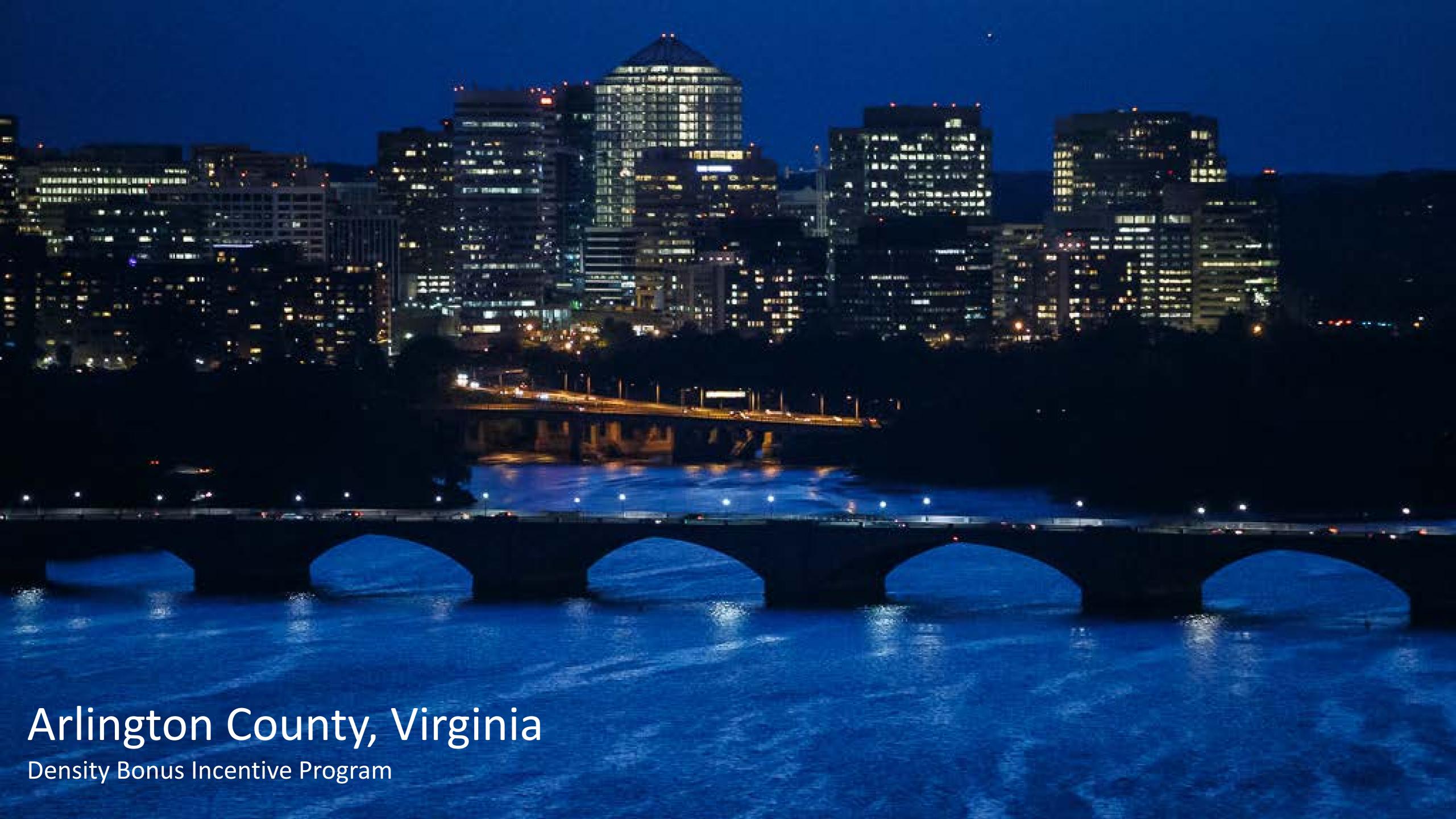
*** GSA Public Buildings Service (2008). Assessing green building performance: A post occupancy evaluation of 12 GSA buildings.

Potential benefits to cities

- Assurance from third party certification
- Value creation
- New market development
- Cost savings across society
- Potential health and productivity gains
- Supports skills development in building workforce
- Competitive distinction







"If your actions inspire others to dream more, learn more, do more and become more, you are a leader."

John Quincy Adams 1767-1848





Thank You

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