

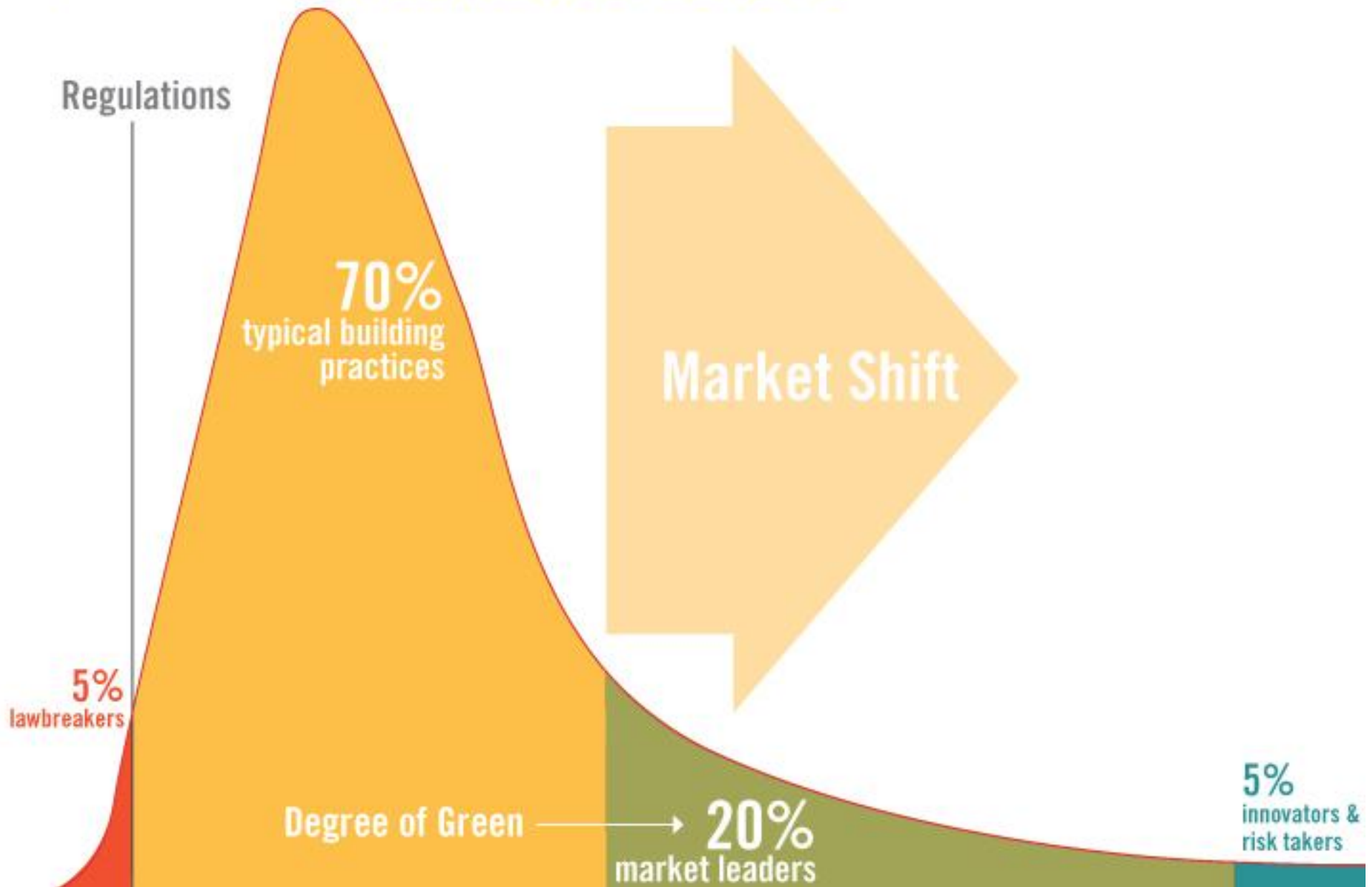
ACCELERATING GREEN BUILDING MARKET TRANSFORMATION WITH INFORMATION



Chris Pyke, Ph.D.

U.S. Green Vice President Research
Building Council

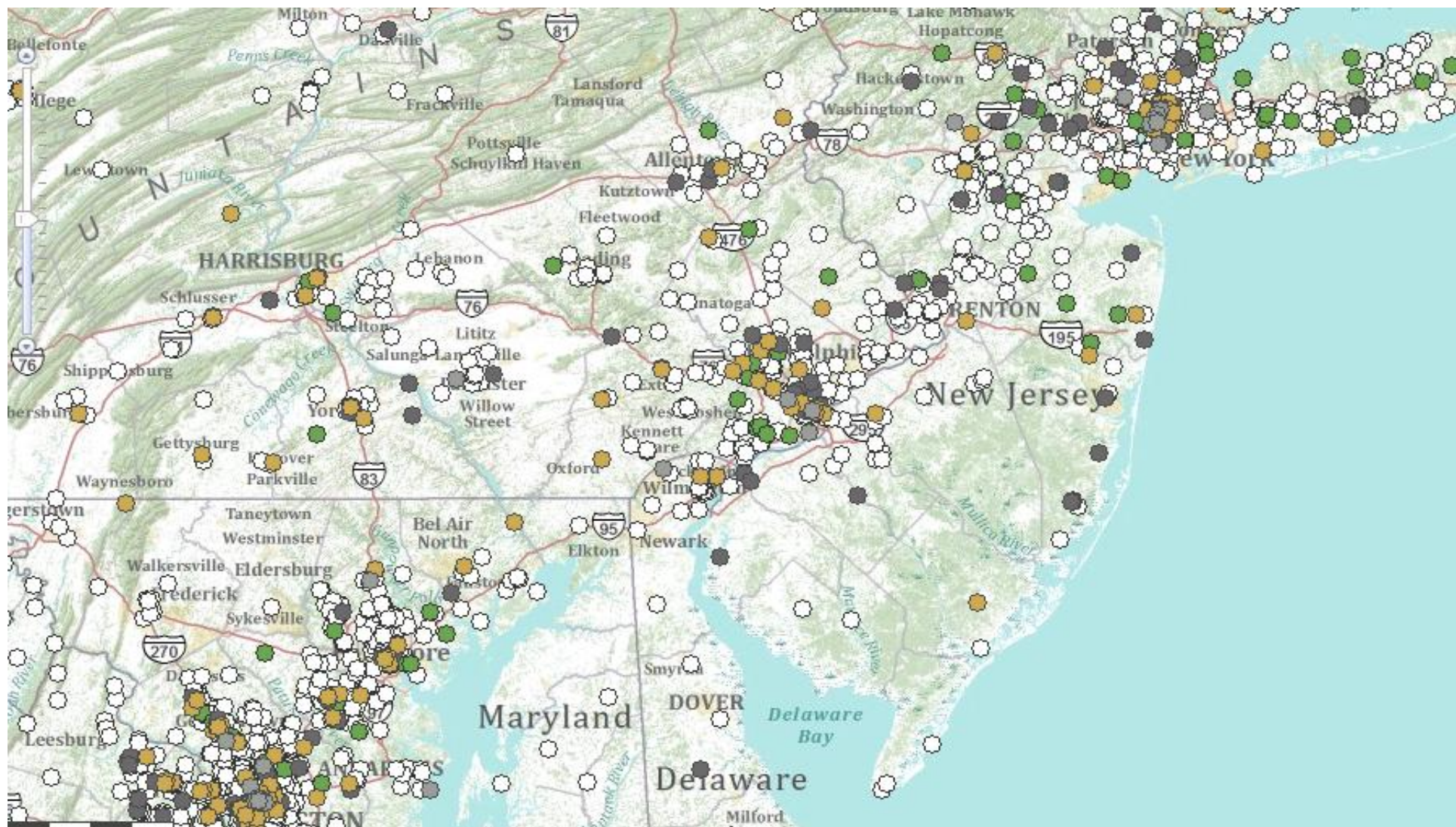
Market Transformation

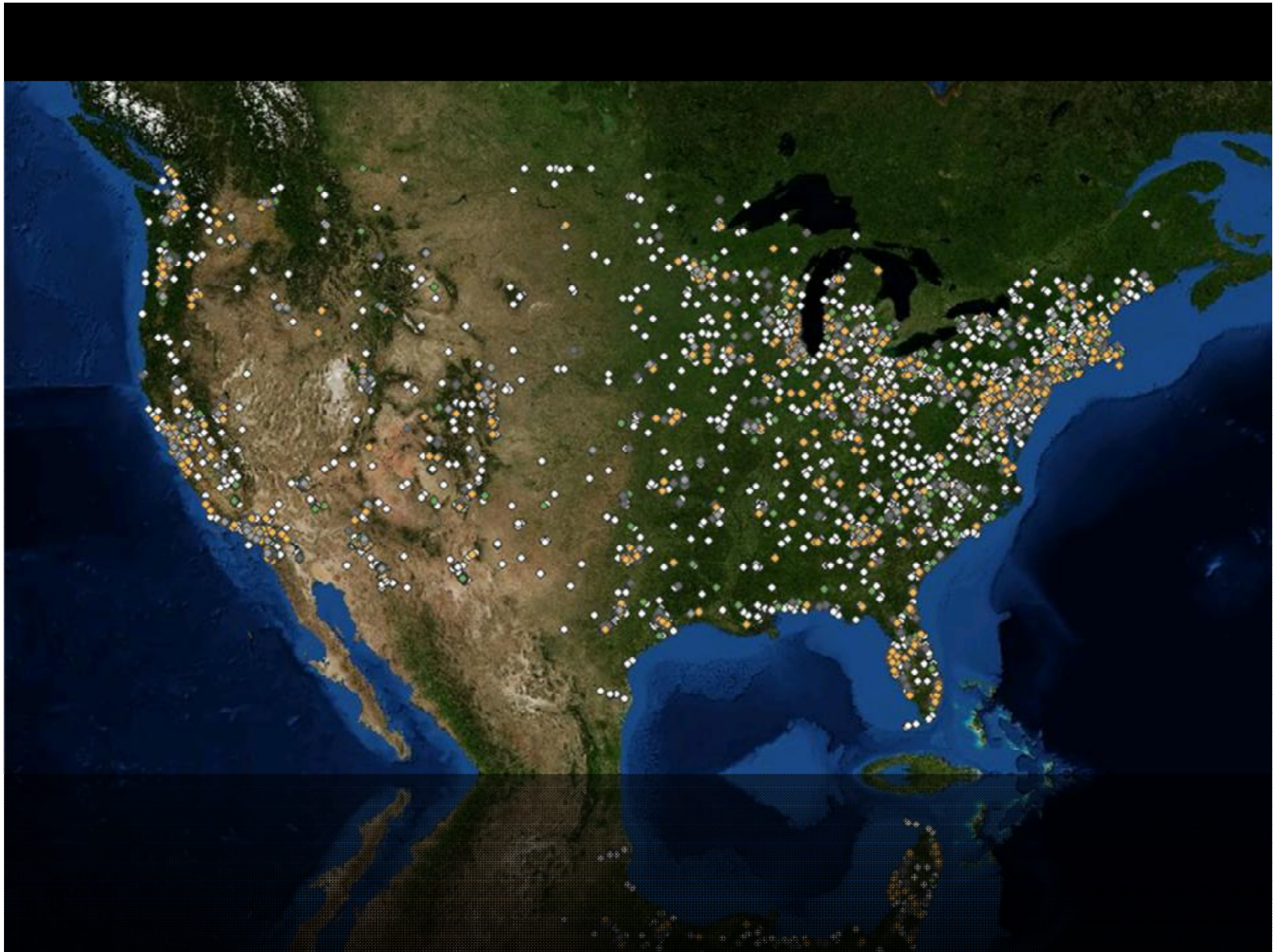


Era of “Firsts”

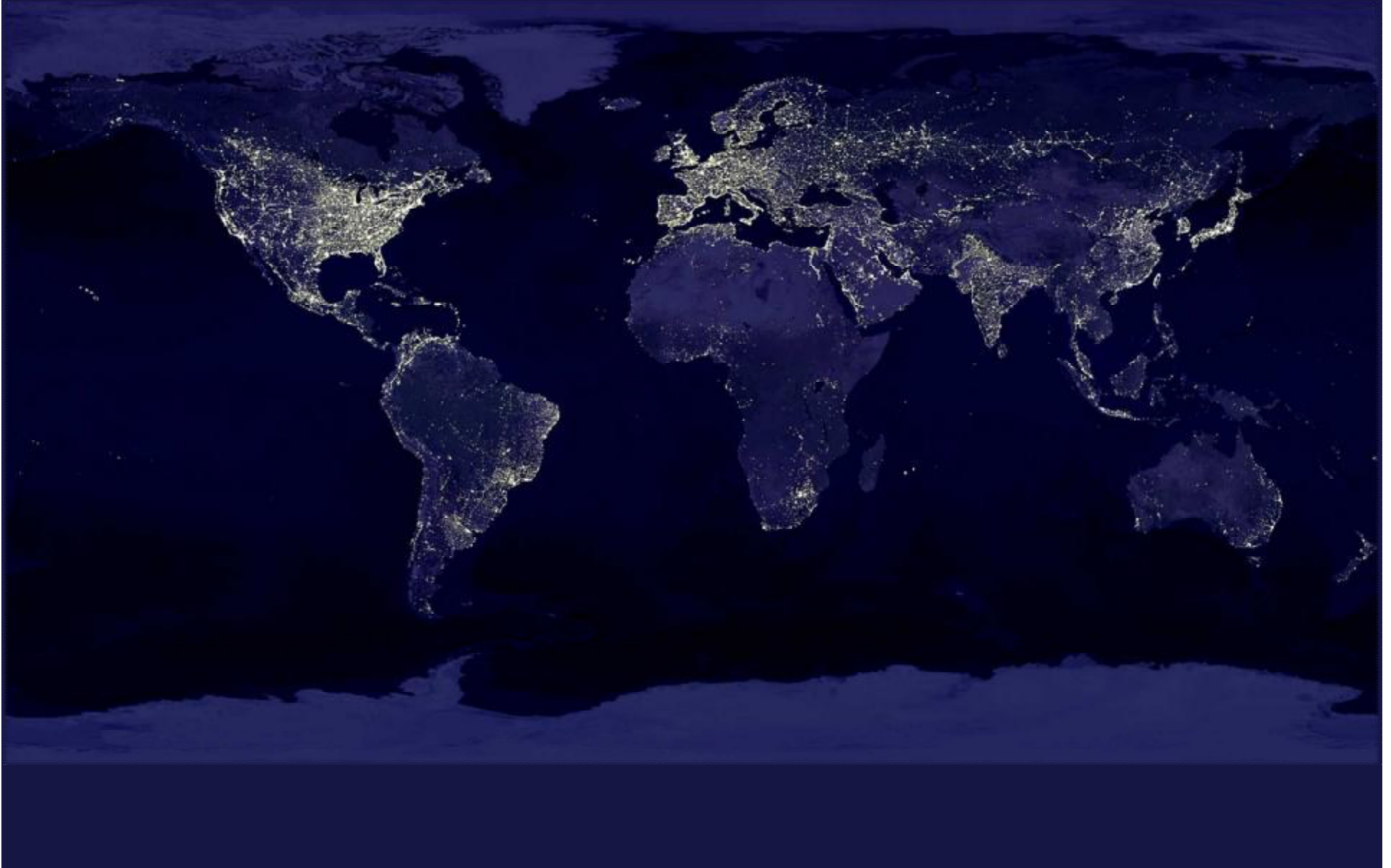


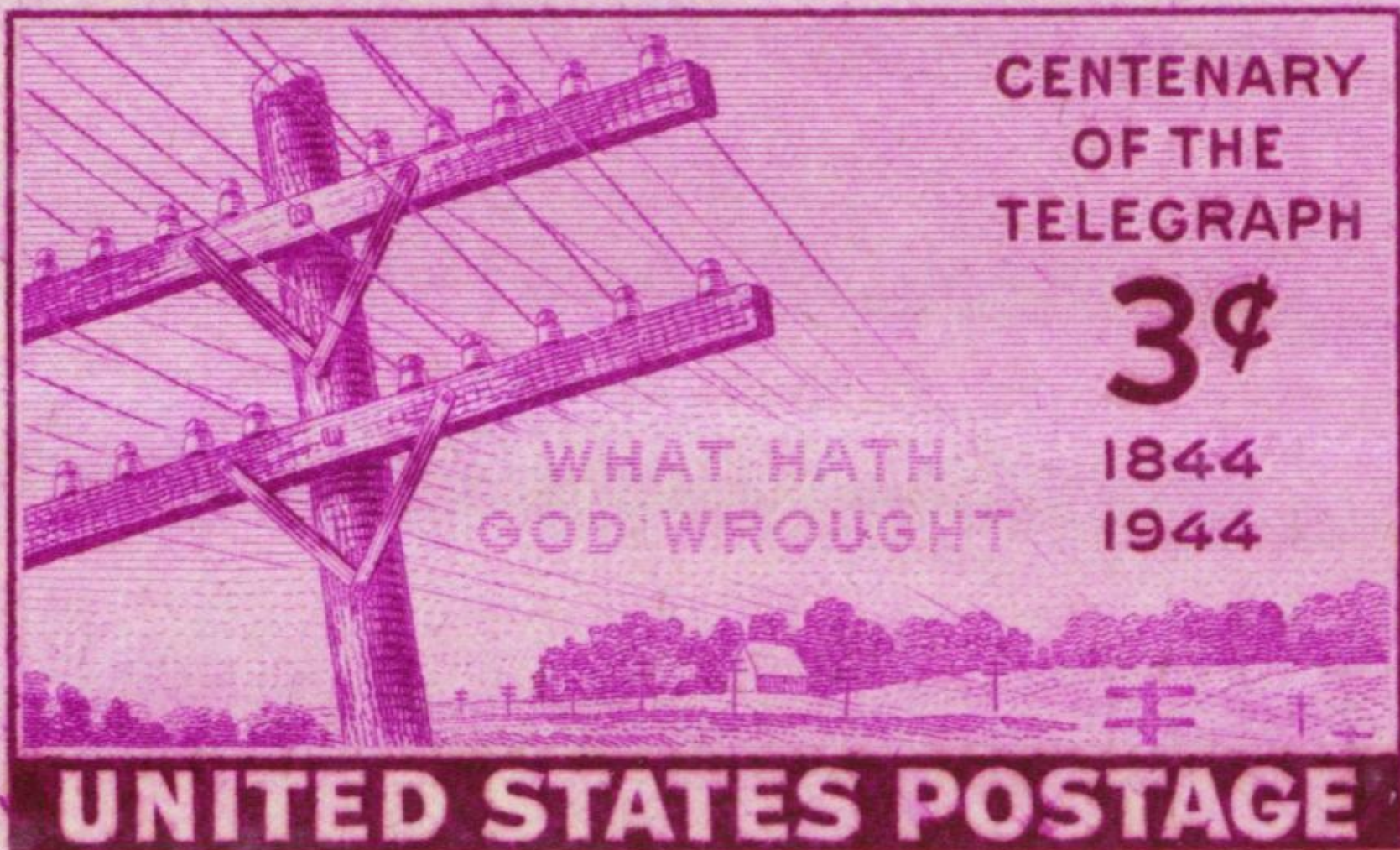
Bren Hall LEED-NC v1.0 Platinum (2002)





Era of Scale





CENTENARY
OF THE
TELEGRAPH

3¢

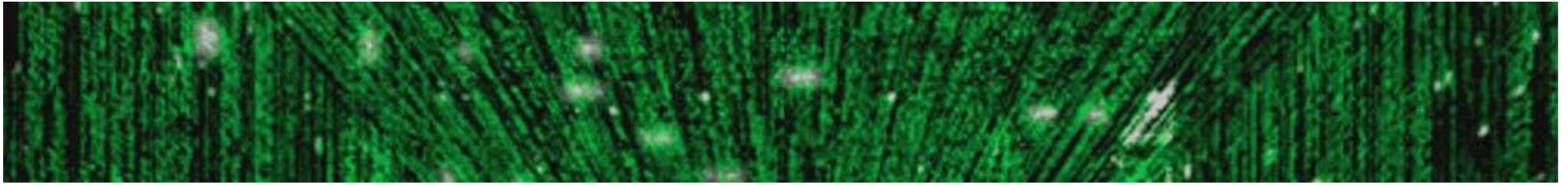
WHAT HATH
GOD WROUGHT

1844
1944

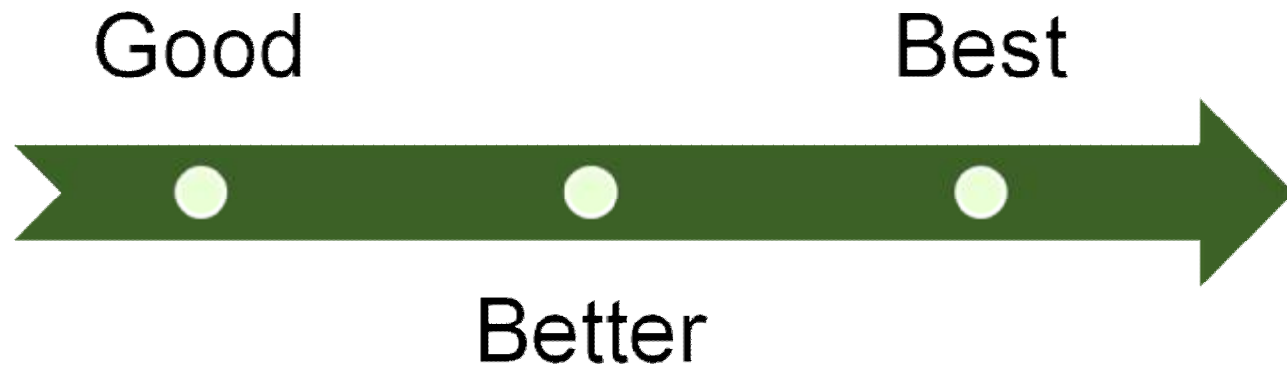
UNITED STATES POSTAGE



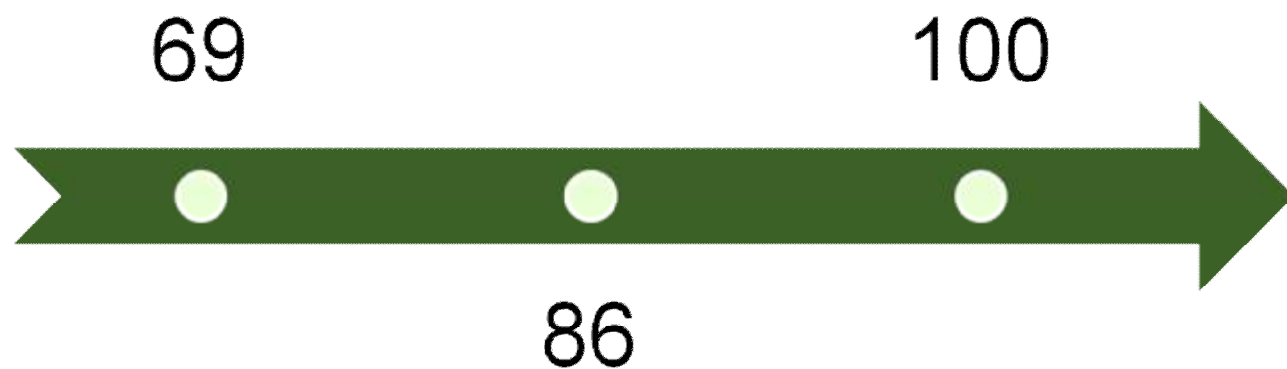
Energy Efficiency
Renewable Energy
Transportation
Water
Materials
Water
Indoor Environment
Human Experience
Physical Activity
Public health
Investment risk
Biodiversity
Many others...



Rating Systems set performance standards



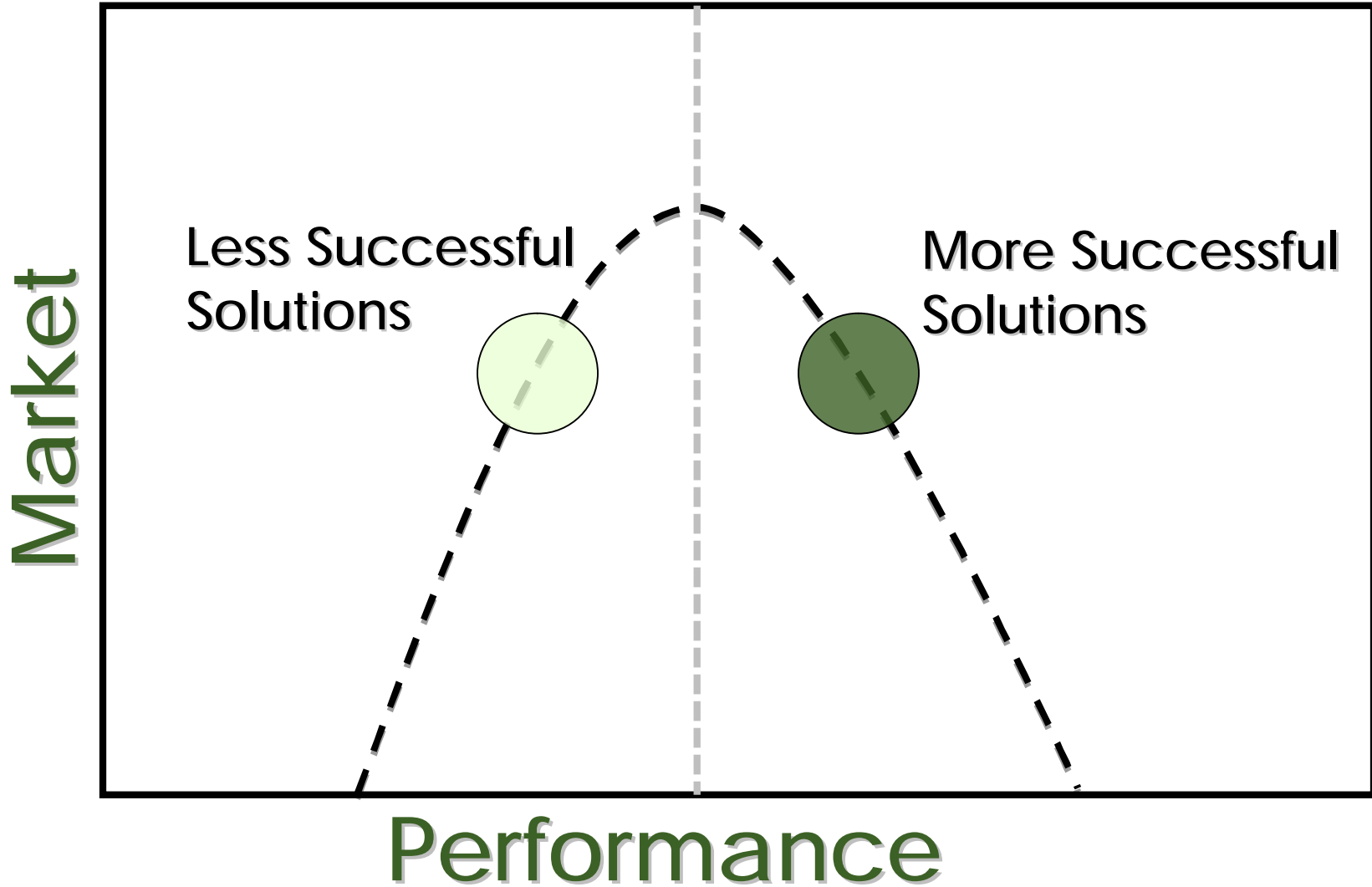
e.g., Energy Star



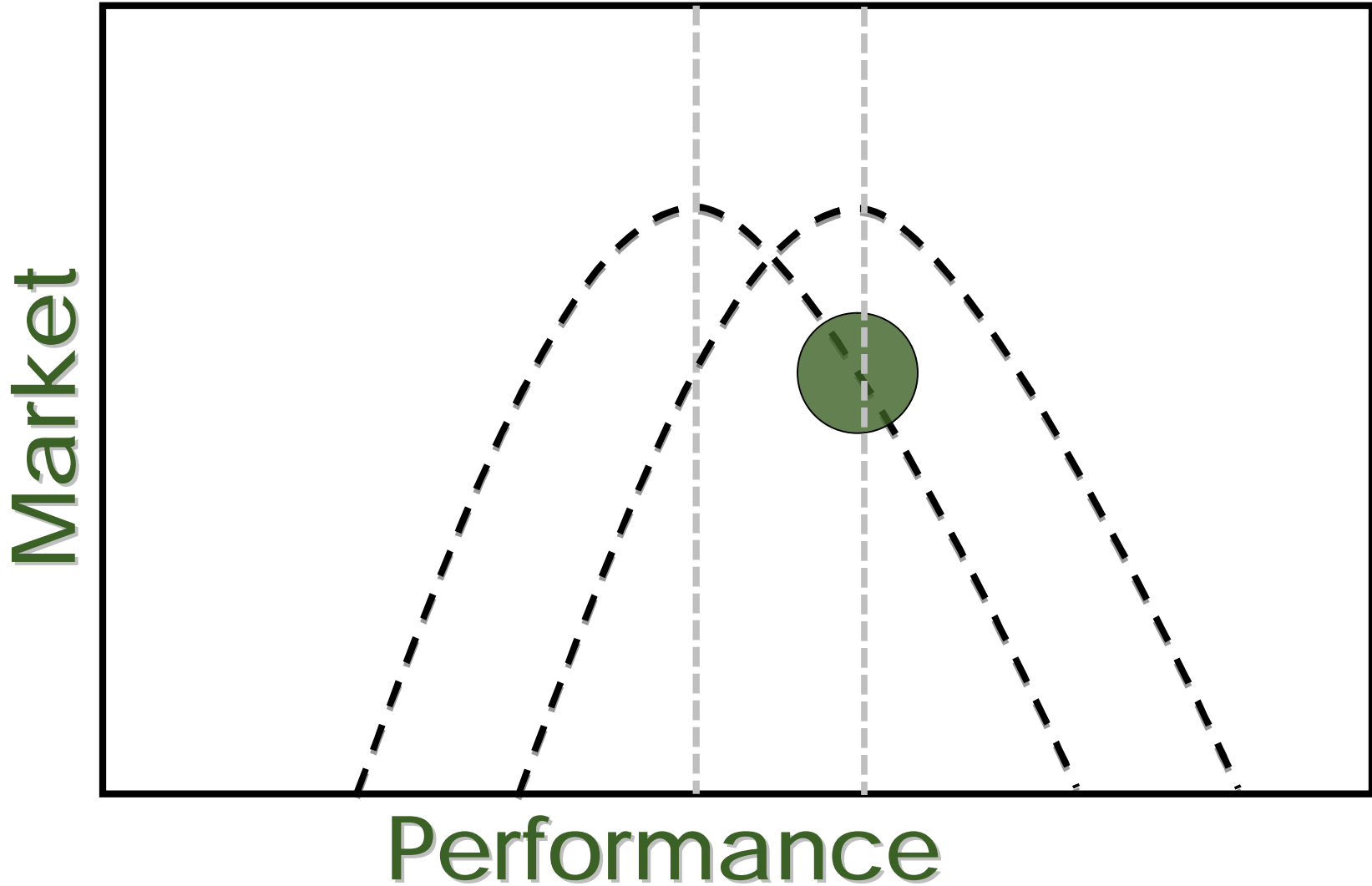


Source: ESRI ArcScene

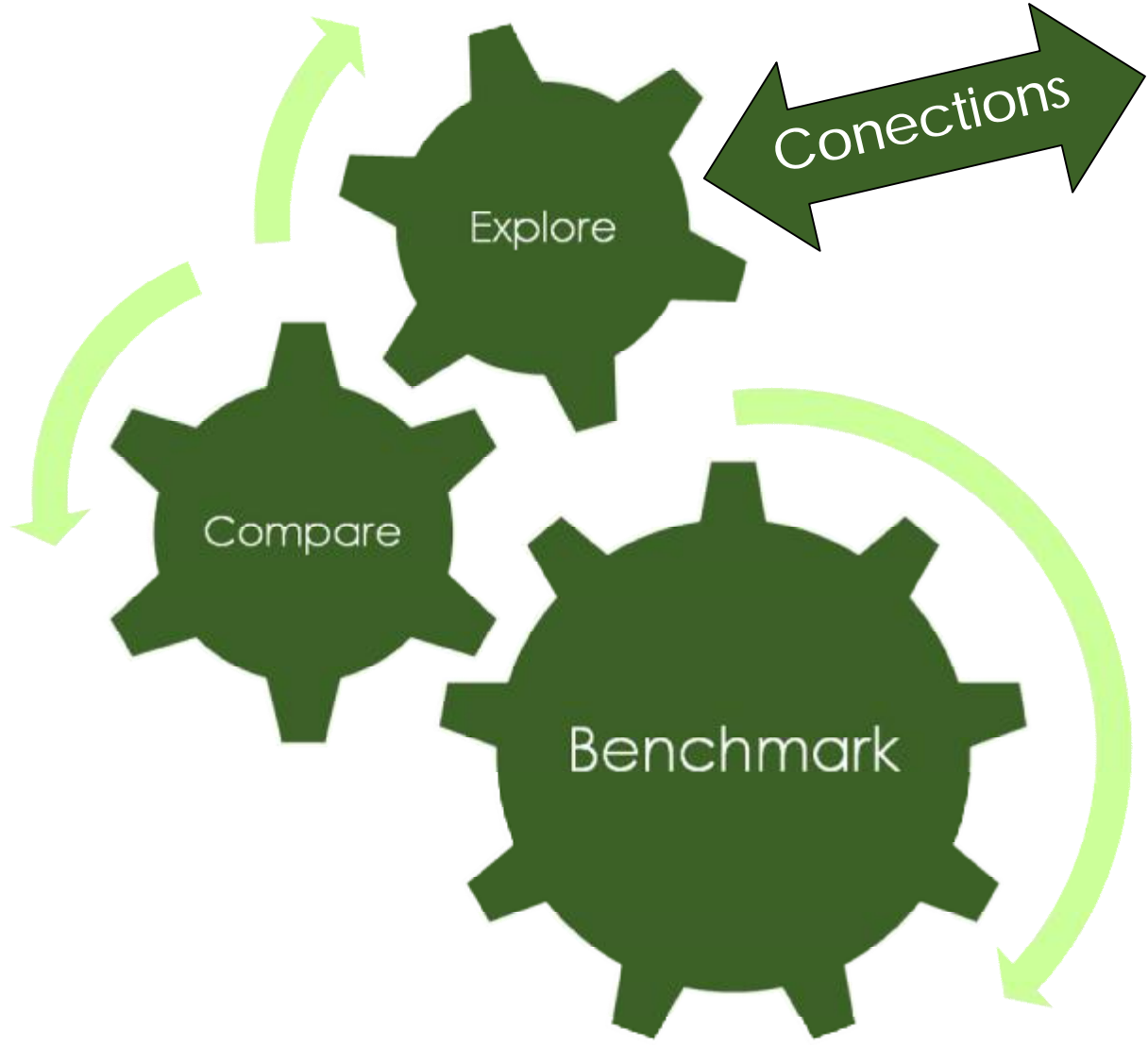
Context



Transformation



Green Building Information Gateway



GBIG

The Green Building Information Gateway



GBIG **EXPLORER: Place**

Explore Places and Cities Through Green Building Data



GBIG **EXCHANGE: Portal**

Create & Share Green Building Maps, Applications & Groups

More GBIG Apps



GBIG Explorer >

Explore over 250 green buildings in the



GBIG Analyst >

Navigate a map displaying nearby LEED



GBIG DC Regional Pilot >

Information technology that provides a view

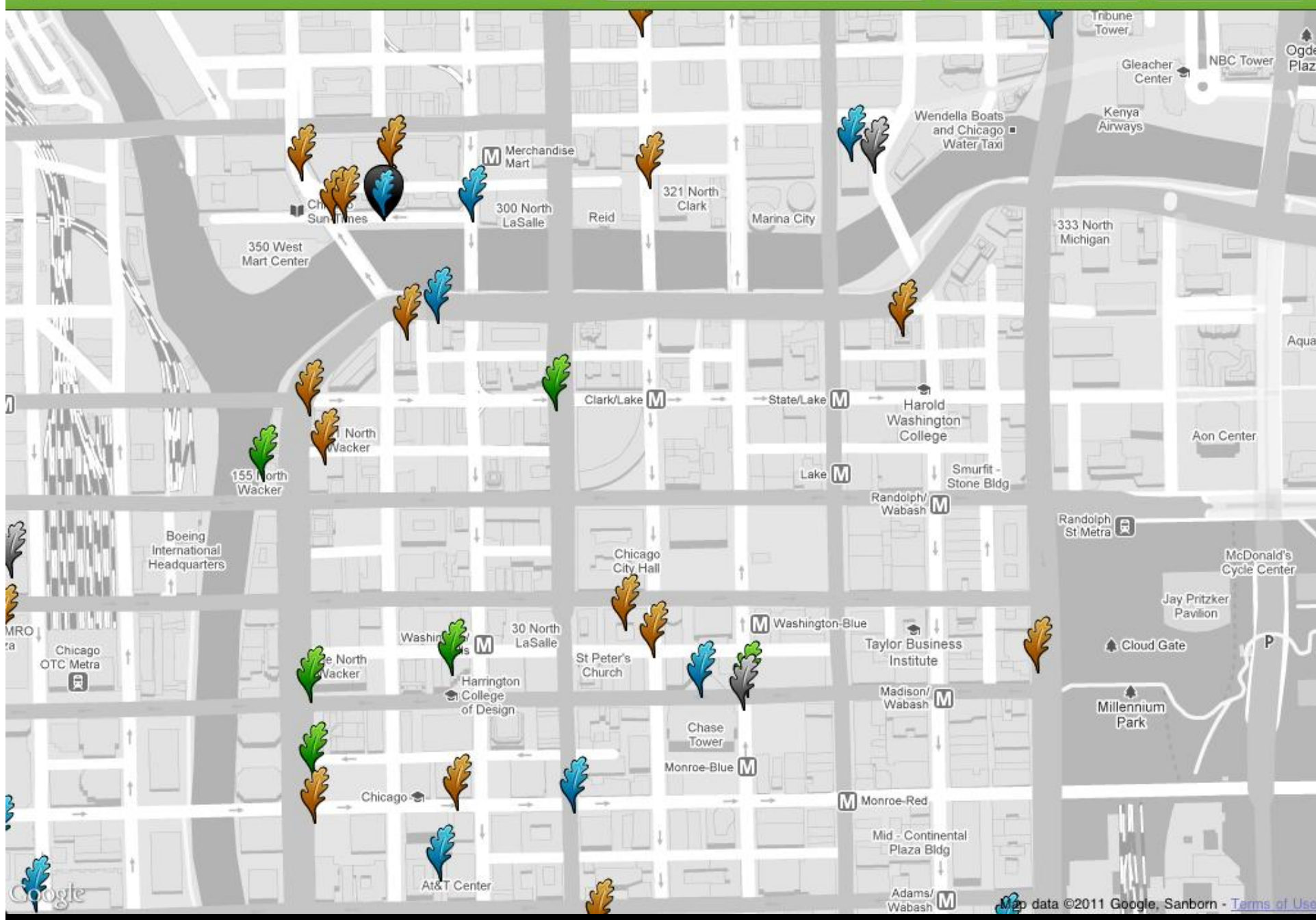
Explore

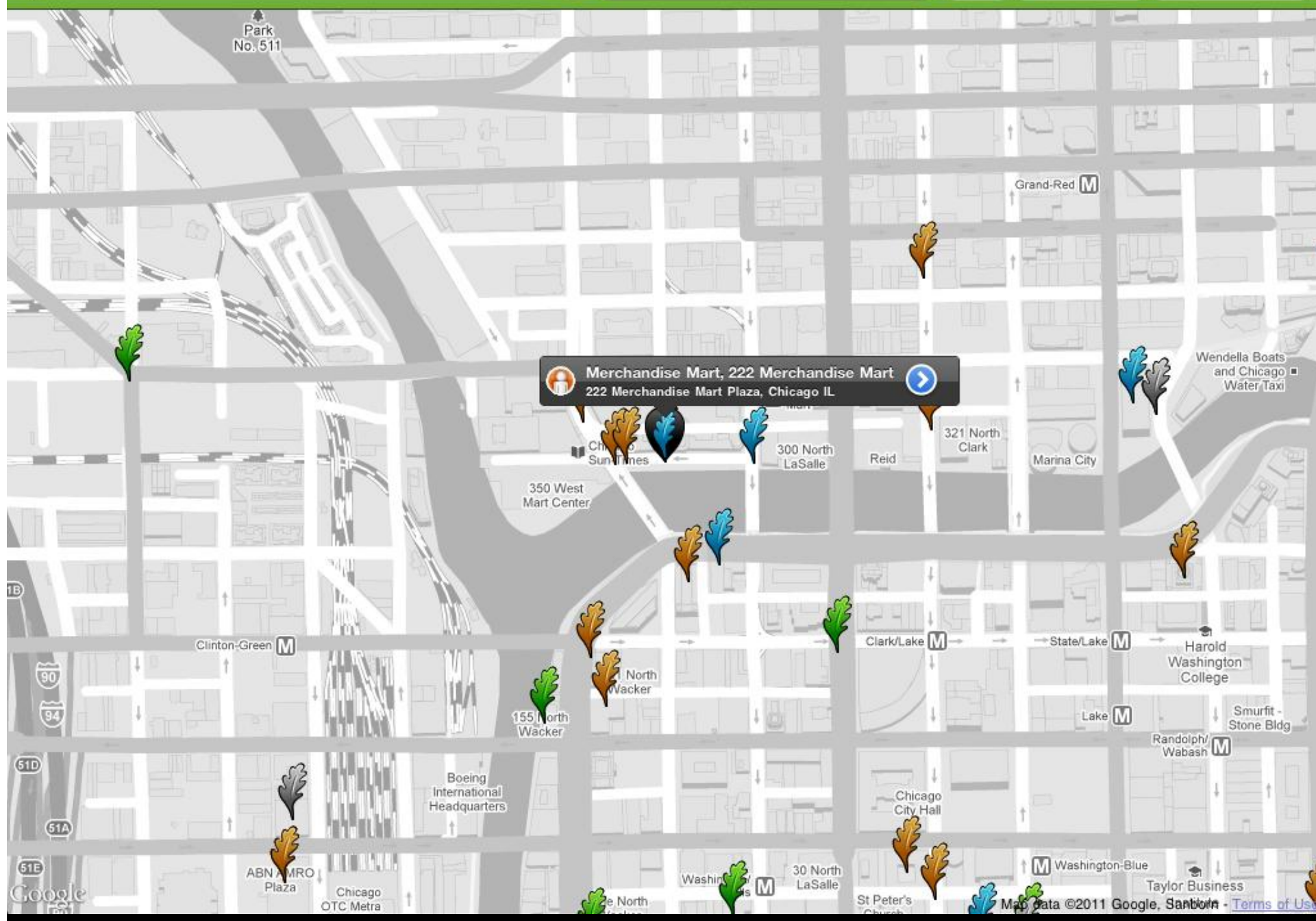


Map

Case Studies

Search by Credit





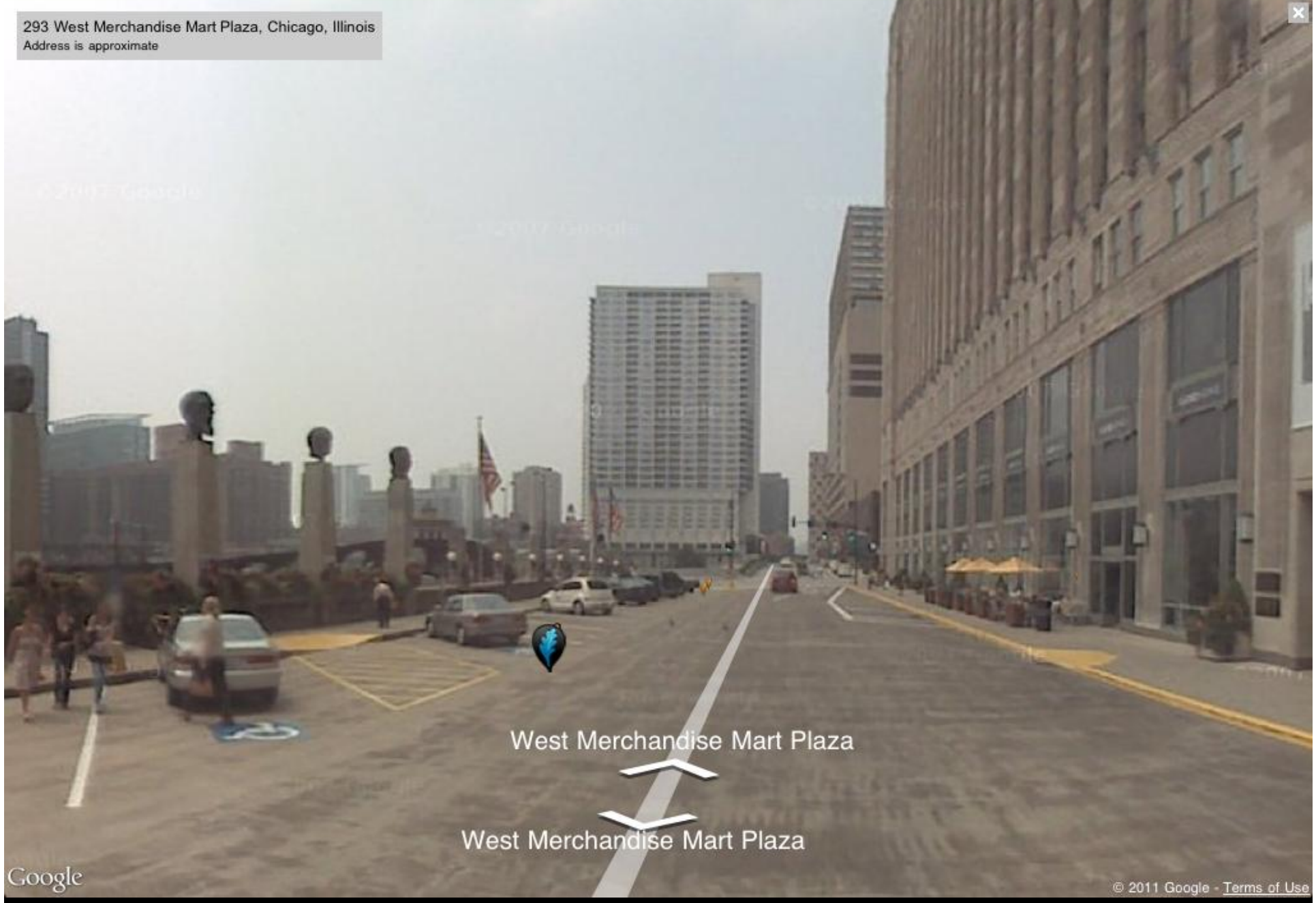


Map

Case Studies

Search by Credit

293 West Merchandise Mart Plaza, Chicago, Illinois
Address is approximate





Park

Merchandise Mart, 222 Merchandise Mart

222 Merchandise Mart Plaza
Chicago IL 60654



Project Details

- **Building Footprint:** 280000
- **Project Type:** Commercial Office, Restaurant, Retail
- **Context:** Urban
- **Owner Type:** Profit Org.
- **Occupant Type:** Mixed Occupancy
- **Percent New:** 0
- **Building Type:** undefined
- **Property Area:** [4200000](#)
- **Undisturbed Site:** 0
- **Surface Parking:** 0
- **Street Parking:** 341

Lead Entity
Project data courtesy of



Connect

Data Anchor





Cities & Neighborhoods | Why It Matters | How It Works | Add Walk Score to Your Site | Blog

Type an Address:

Go

Street Smart

Beta

65

Out of 100

Somewhat Walkable

2111 W. Roosevelt Rd. Chicago IL 60608 US

f Like

6K

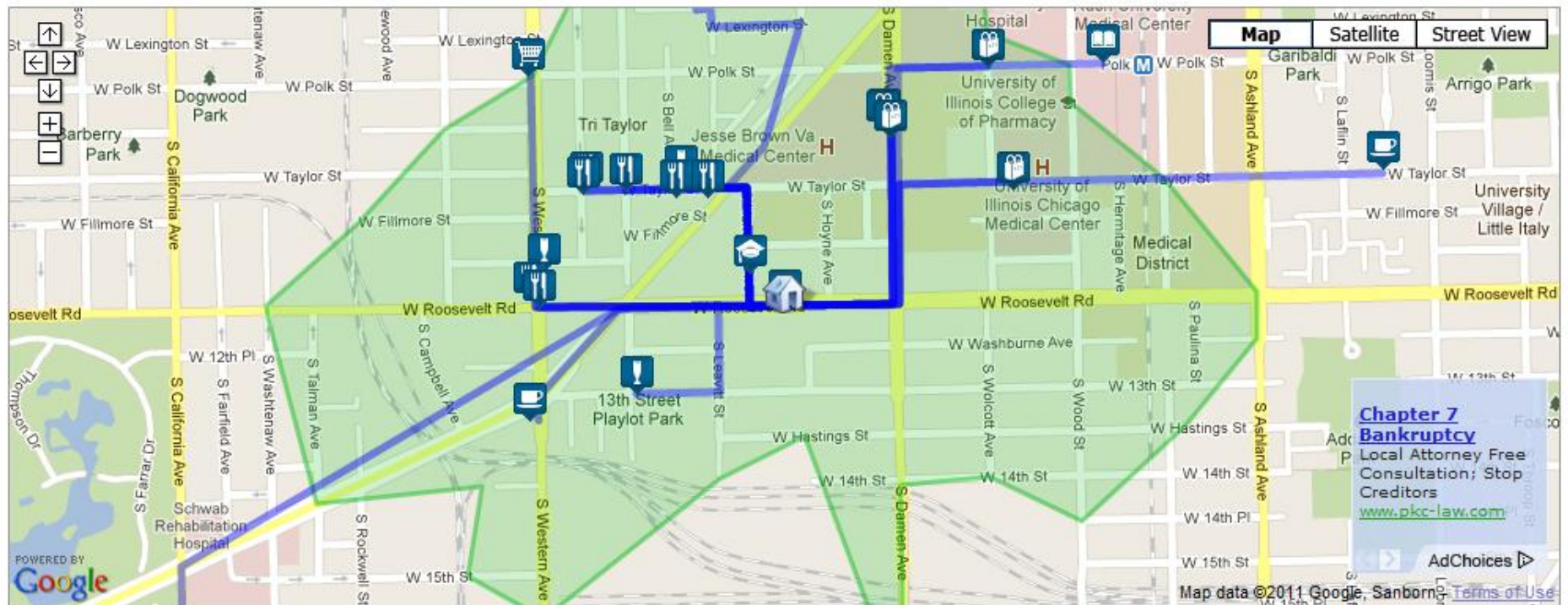
Share

Overview

More Amenities

Your Commute

Illinois Medical District



Add a place

Click an amenity to remove

15 minute walk

Compare

Compare

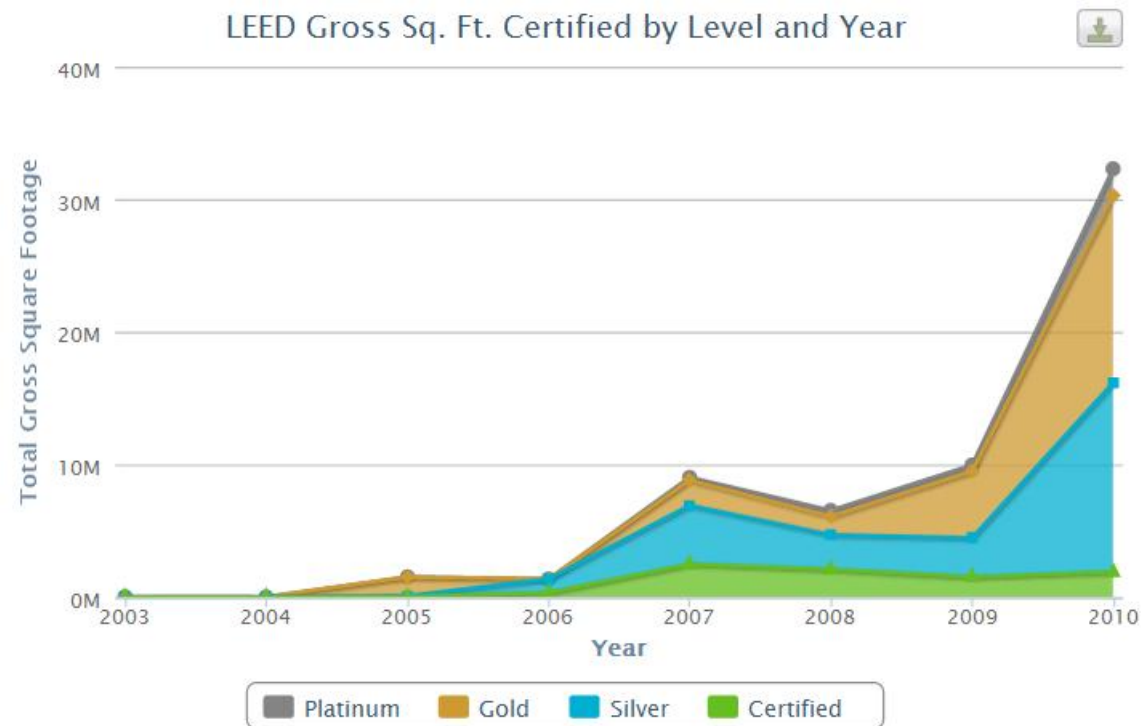
Chicago, Illinois

Charts

LEED Gross Sq. Ft. Certified
by Level and Year

LEED Accreditations by
Year

LEED Achievement by
Credit Category



[Compare](#)

Chicago

New York

Projects


[Enlarge Map](#)

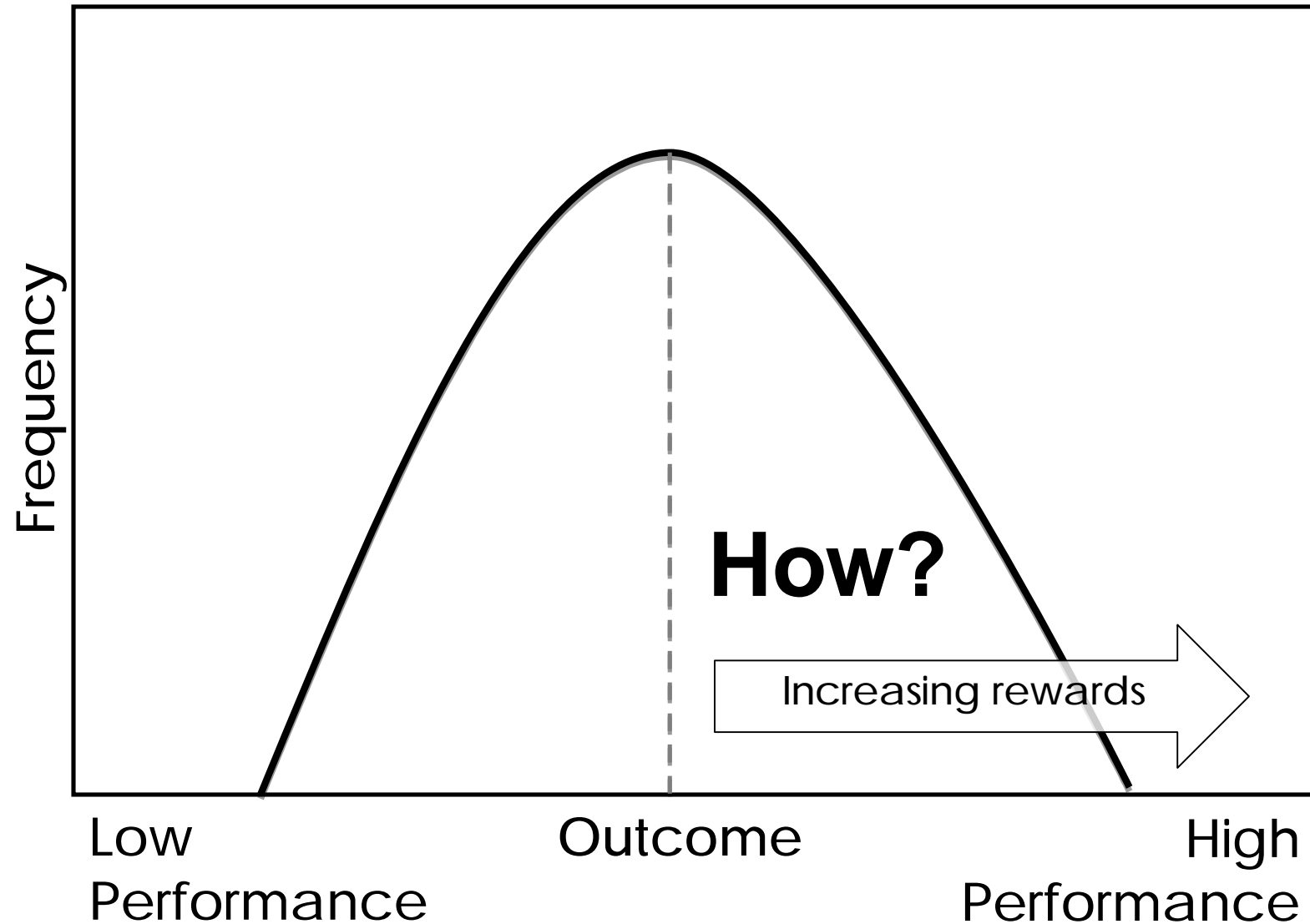
[Enlarge Map](#)

Metrics

ENERGY STAR® Buildings & Plants	98 (34.37)	99 (11.8)
Population (2009 est.)	2.851 Million	8.392 Million
USGBC Member Employees	139,900 (49,070)	461,300 (54,980)
USGBC Members	264 (92.59)	359 (42.78)
Government Owned LEED Certified Gross Sq. Ft	2.466 Million (865,000)	103,600 (12,350)
LEED Certified Gross Sq. Ft	63.62 Million (22.31 Million)	39.65 Million (4.724 Million)
USGBC Member Revenue (\$/yr)	14.85 Billion (5.207 Billion)	36.76 Billion (4.38 Billion)
LEED Professionals	3,788 (1,329)	4,044 (481.9)

Benchmark

Distribution of performance across the market



FBI Regional Office

USAA Real Estate Company

2111 W. Roosevelt Rd.
Chicago, IL 60608
US

LEED Status



LEED EB 2008 Platinum certified.

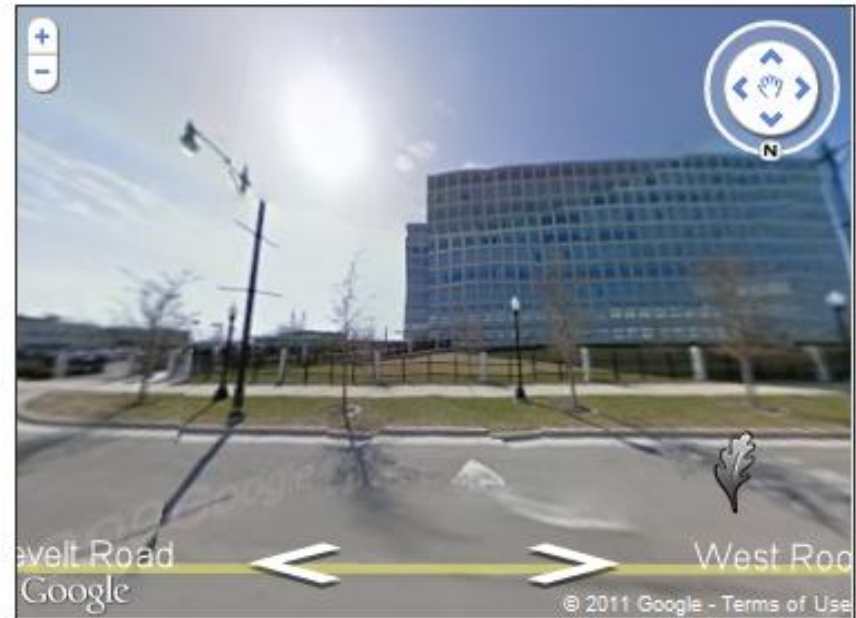
74 of 92 possible points.







Awarded December 22, 2008

ID: 10049661

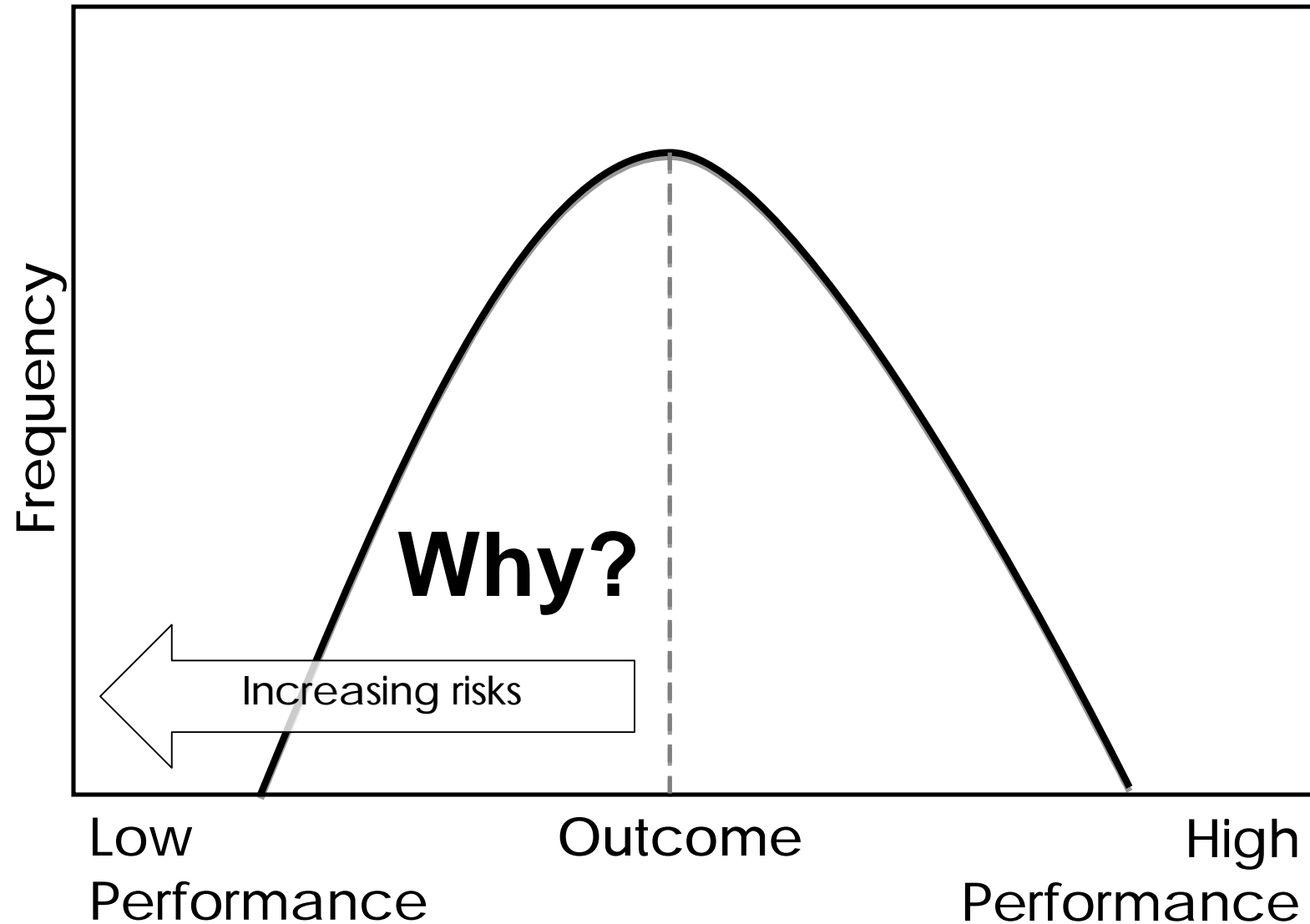
Credit Achievement







CATEGORY	POINTS	RANKING ?
Energy and Atmosphere	25/30	
Materials and Resources	10/14	
Indoor Environmental Quality	17/19	
Sustainable Sites	8/12	



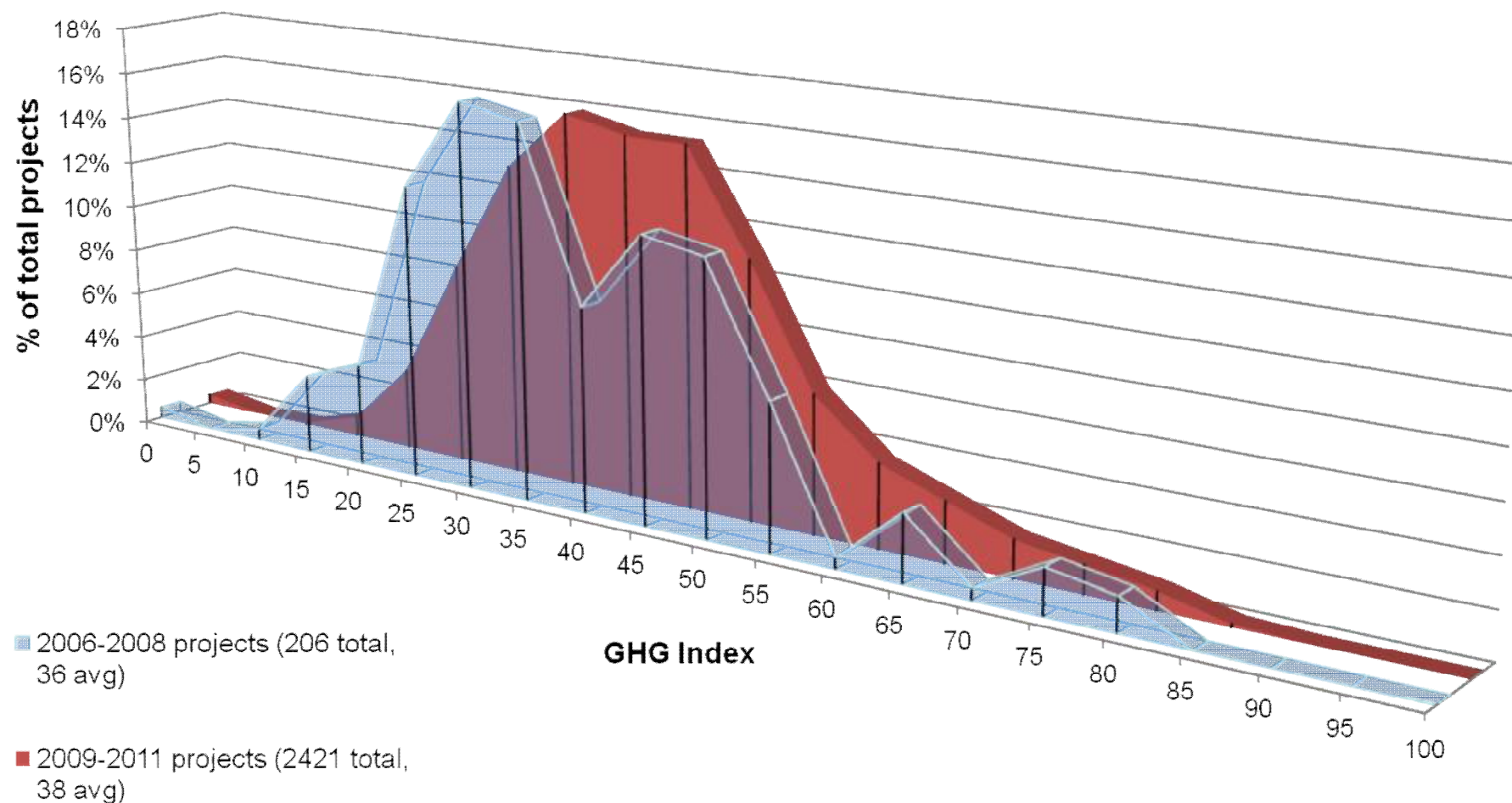
CATEGORY	POINTS	RANKING ?
Energy and Atmosphere	25/30	 A blue area chart showing a peak followed by a sharp decline, with a red downward-pointing triangle at the end.
Materials and Resources	10/14	 A blue area chart showing a single peak, with a red downward-pointing triangle at the end.
Indoor Environmental Quality	17/19	 A blue area chart showing a single peak, with a red downward-pointing triangle at the end.
Sustainable Sites	8/12	 A blue area chart showing a single peak, with a red downward-pointing triangle at the end.
Water Efficiency	7/10	 A blue area chart showing a single peak, with a red downward-pointing triangle at the end.
Innovation in Operations	7/7	 A blue area chart showing a gradual rise followed by a sharp upward spike, with a red upward-pointing triangle at the end.
Total	74	

Distribution of performance across the market



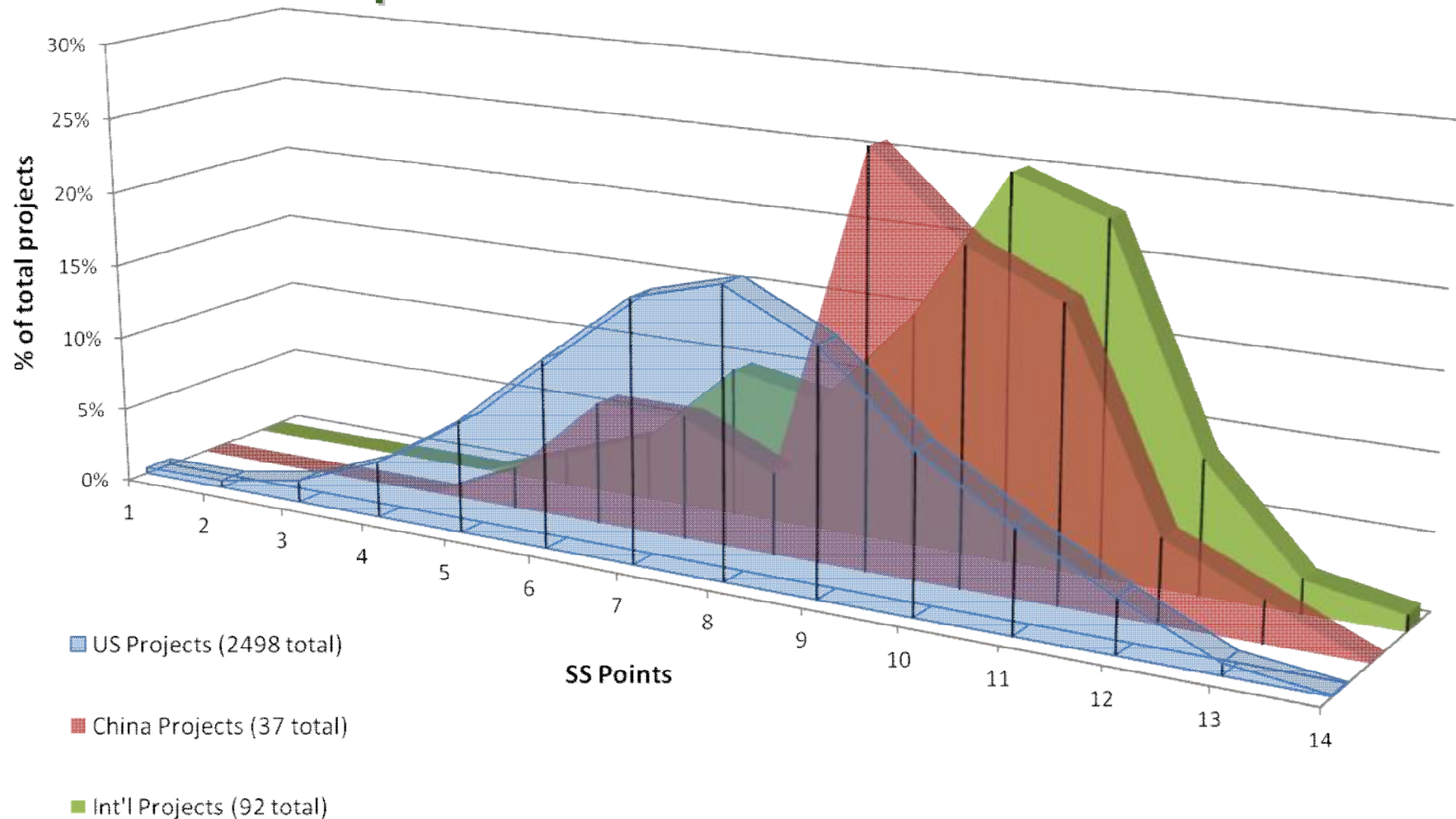
CATEGORY	POINTS	RANKING ?
Energy and Atmosphere	1/17	
Materials and Resources	7/13	
Indoor Environmental Quality	5/15	
Sustainable Sites	7/14	
Water Efficiency	2/5	
Innovation in Design	5/5	
Total	27	

GHG Index for LEED-NC v2.x Projects



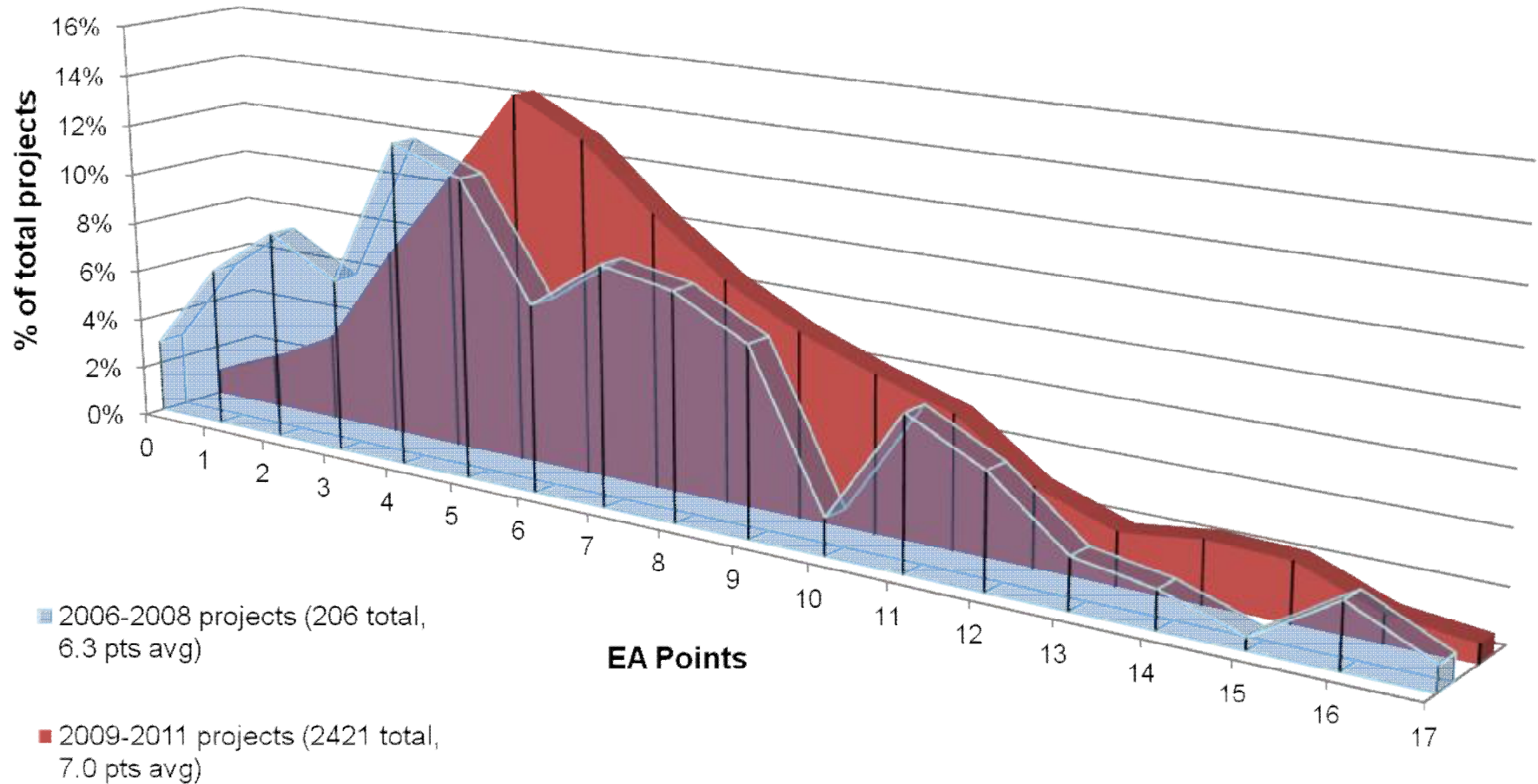
GHG Index for LEED-NC v2.x Projects

Component 1: Sustainable Sites



GHG Index for LEED-NC v2.x Projects

Component 2: Energy & Atmosphere





More

Explore

Green Building Information
Gateway www.gbig.org

Contact

Chris Pyke cpyke@usgbc.org

VP Research

US Green Building Council

