

# LEED for Cities and Communities

Presentation to MWCOCG BEEAC

May 16, 2019





# LEED v4.1 CITIES AND COMMUNITIES: EXISTING

April 2, 2019

U.S. Green Building Council

*Released April 2019*

## LEED v4.1 for Cities and Communities

Rating Systems and Guides:

<https://new.usgbc.org/leed-v41>

LEED for Cities and Communities page:

<https://new.usgbc.org/leed-for-cities>

LEED v4.1 Cities and Communities



Additional resources available at the LEED v4.1 website include:

- Credit Library
- Overview Video

# Opportunities for **New** and **Existing** Cities and Communities



Plan, Design & Develop



Operate & Manage



Continuously Improve

New

Strategies for new and developing places

Existing

Performance measures plus strategies for existing places

Recertification

Performance pathway to recertification for all projects and places



Municipality or Local  
Government



Neighborhood, District or  
Other Community

# Certification Eligibility

## LEED for Cities

- Primary applicant is the governing body of a city or municipality

## LEED for Communities

- Applies to non-city places such as counties, regions, districts, economic zones, neighborhoods, campuses and military installations

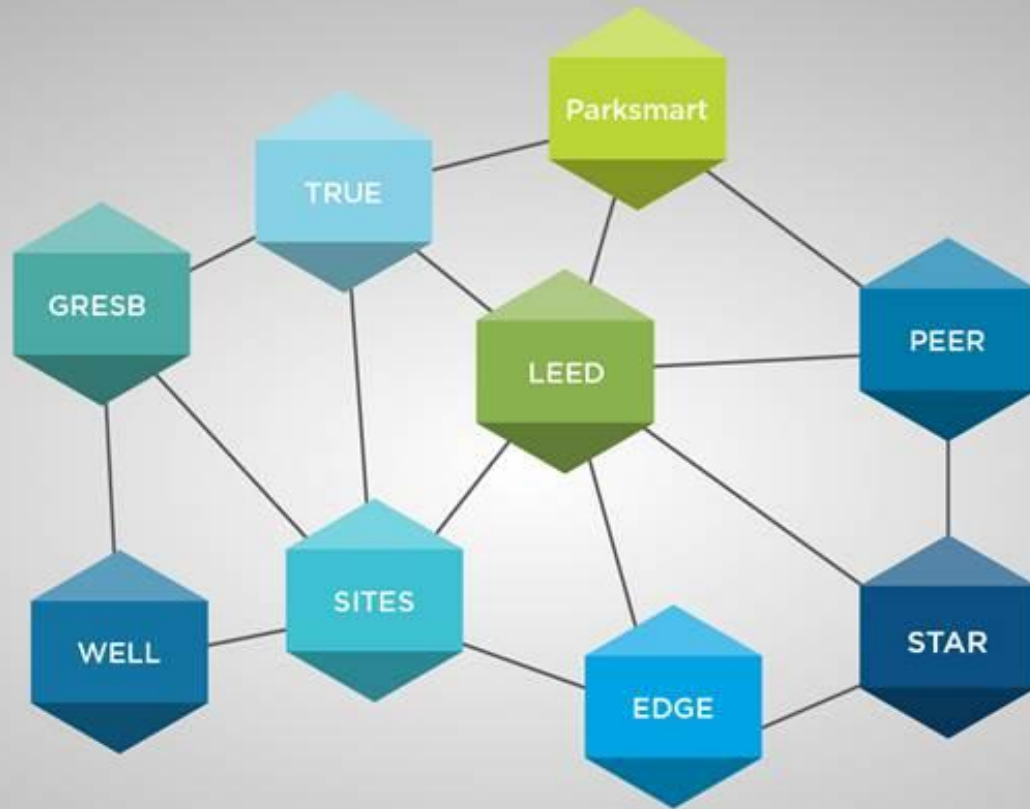


**SAFE  
HEALTHY  
INCLUSIVE  
SMART  
PRODUCTIVE  
EFFICIENT  
EQUITABLE  
SUSTAINABLE  
RESPONSIVE  
RESILIENT**





LEED FOR CITIES AND COMMUNITIES INCORPORATES  
OUR EXPERIENCES WITH 140 GLOBAL CITIES AND  
COMMUNITIES



**LEED for Communities & Cities integrates complementary standards**



# LEED FOR CITIES AND COMMUNITIES IS ALIGNED WITH GLOBAL GOALS





## Core program values:

- Innovative and transformative
- Data driven and performance based
- Collaborative and stakeholder driven
- Globally applicable, locally relevant
- Holistically and equitably rooted in the triple bottom line
- Evidence based and continuously improving

# INNOVATIVE AND TRANSFORMATIVE



# DATA DRIVEN AND PERFORMANCE BASED



# COLLABORATIVE AND STAKEHOLDER DRIVEN



...AND  
MORE

# GLOBALLY APPLICABLE, LOCALLY RELEVANT



# ROOTED IN THE TRIPLE BOTTOM LINE



# EVIDENCE BASED AND CONTINUOUSLY IMPROVING



Plan and Design

Develop

Measure

Improve



# Program Goals

- Inspire leadership, transformation and innovation in urban sustainability.
- Protect biodiversity and regenerate ecosystem services.
- Meet and exceed net zero carbon, energy, waste and water.
- Achieve livability, choice and access for all, where people live, work and play.
- Raise the standard of living and quality of life for humans all around the globe.





Integrative Process



Natural Systems & Ecology



Transportation & Land Use



Water Efficiency



Energy & GHG Emissions



Materials & Resources



Quality of Life



Innovation



Regional Priority



# LEED for Cities and Communities: Existing

Cities Communities

Cities Communities

INTEGRATIVE PROCESS		POSSIBLE: 5	POSSIBLE: 5
Credit	Integrated Planning and Leadership	1	1
Credit	Green Building Policy and Incentives	4	4

NATURAL SYSTEMS AND ECOLOGY		POSSIBLE: 9	POSSIBLE: 9
Prereq	Ecosystem Assessment	REQUIRED	REQUIRED
Credit	Green Spaces	2	2
Credit	Natural Resources Conservation and Restoration	2	2
Credit	Light Pollution Reduction	1	1
Credit	Resilience Planning	4	4

TRANSPORTATION AND LAND USE		POSSIBLE: 15	POSSIBLE: 15
Prereq	Transportation Performance	6	6
Credit	Compact, Mixed Use and Transit Oriented Development	2	2
Credit	Access to Quality Transit	1	1
Credit	Alternative Fuel Vehicles	2	2
Credit	Smart Mobility and Transportation Policy	2	2
Credit	High-Priority Site	2	2

WATER EFFICIENCY		POSSIBLE: 11	POSSIBLE: 11
Prereq	Water Access and Quality	REQUIRED	REQUIRED
Prereq	Water Performance	6	6
Credit	Integrated Water Management	1	1
Credit	Stormwater Management	2	2
Credit	Smart Water Systems	2	2

ENERGY AND GREENHOUSE GAS EMISSIONS		POSSIBLE: 30	POSSIBLE: 30
Prereq	Power Access, Reliability and Resiliency	REQUIRED	REQUIRED
Prereq	Energy and Greenhouse Gas Emissions Performance	14	18
Credit	Energy Efficiency	4	4
Credit	Renewable Energy	6	6
Credit	Low Carbon Economy	4	-
Credit	Grid Harmonization	2	2

MATERIALS AND RESOURCES		POSSIBLE: 10	POSSIBLE: 10
Prereq	Solid Waste Management	REQUIRED	REQUIRED
Prereq	Waste Performance	4	5
Credit	Special Waste Streams Management	1	1
Credit	Responsible Sourcing for Infrastructure	2	2
Credit	Material Recovery	1	-
Credit	Smart Waste Management Systems	2	2

QUALITY OF LIFE		POSSIBLE: 20	POSSIBLE: 20
Prereq	Demographic Assessment	REQUIRED	REQUIRED
Prereq	Quality of Life Performance	6	6
Credit	Trend Improvements	4	4
Credit	Distributional Equity	4	4
Credit	Environmental Justice	1	1
Credit	Housing and Transportation Affordability	2	2
Credit	Civic and Community Engagement	2	2
Credit	Civil and Human Rights	1	1

INNOVATION		POSSIBLE: 6	POSSIBLE: 6
Credit	Innovation	6	6

REGIONAL PRIORITY		POSSIBLE: 4	POSSIBLE: 4
Credit	Regional Priority	4	4

**TOTAL** **110** **110**

40-49 Points	50-59 Points	60-79 Points	80+ Points
CERTIFIED	SILVER	GOLD	PLATINUM

# Prerequisites

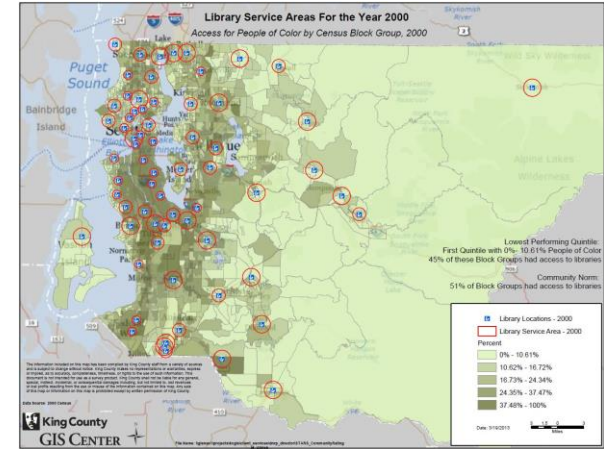
*Required*

## Base conditions

- Access and quality
- Example: Access to water and power; mapping of ecosystems and demographics

## Performance score

- Benchmark-scored indicator
- Example: Total VMT per capita; median household income; GHG per capita



Demographic assessment



Performance score

# Prerequisites: Base Conditions

Category	
Natural Systems	Ecosystem Assessment
Water Efficiency	Water Access and Quality
Energy & GHG	Power Access, Reliability, and Resiliency
Waste	Solid Waste Management
Quality of Life	Demographic Assessment

# Prerequisites: Performance

Category	Performance Reported to Arc
Natural Systems	None
Transportation	Vehicle Miles Traveled (daily per capita)
Water Efficiency	Domestic Water Consumption (daily per capita)
Energy & GHG	Greenhouse Gas emissions (annually per capita)
Waste	Municipal solid waste generated (annually per capita) Municipal solid waste diverted (% of total generated)
Human Experience (Quality of Life)	
• Education	• Population with (at least) a High School Degree • Population with (at least) a Bachelor's Degree
• Equitability	• Median Gross Rent as % of Household Income • Gini Coefficient
• Prosperity	• Median Household Income • Unemployment Rate
• Health & Safety	• Median Air Quality Index (AQI) • Air Quality Days Unhealthy for Sensitive Groups • Violent Crime

# Credits

*Optional*

## Outcomes

- Quantitative; measured at the city or community-scale; trend lines or thresholds
- Example: Identify compact and complete centers then demonstrate % of population residing within CCC.

## Strategies

- Qualitative; identified as best practices; reflect actions taken to achieve results
- Example: Adopt a comprehensive housing policy; housing needs assessment; healthy housing standards



TR Credit: Compact, Mixed Use and TOD



QL Credit: Housing and Transportation Affordability

# QL Credit: Housing and Transportation Affordability



## **CREDIT – 2 points**

**Intent:** To provide an adequate and diverse supply of location-efficient and affordable housing options for all.

### **Requirements**

Demonstrate the delivery of high quality homelessness services related to short-term emergency shelter options and permanent housing solutions in coordination with non-governmental service providers. **[STRATEGY]**

### **AND**

Adopt a comprehensive housing policy that addresses the following elements: [1 point] **[STRATEGY]**

- Higher density (12 DU per acre) within ¼ mile (400 meters) of walking distance to public transit stations;
- A housing needs assessment addressing housing supply affordability, diversity of housing stock by unit and ownership type, and community demographics;
- Programs or code enforcement ensuring healthy housing standards for both rental and owner-occupied units; and
- Evaluation of existing area conditions to identify whether a family of four with an income at 200% national poverty level could afford to live with less than 45% housing plus transportation costs or zoning ordinances requiring at least 10% of units are affordable in transit-served areas and areas identified for compact, mixed-use development.

### **AND/OR**

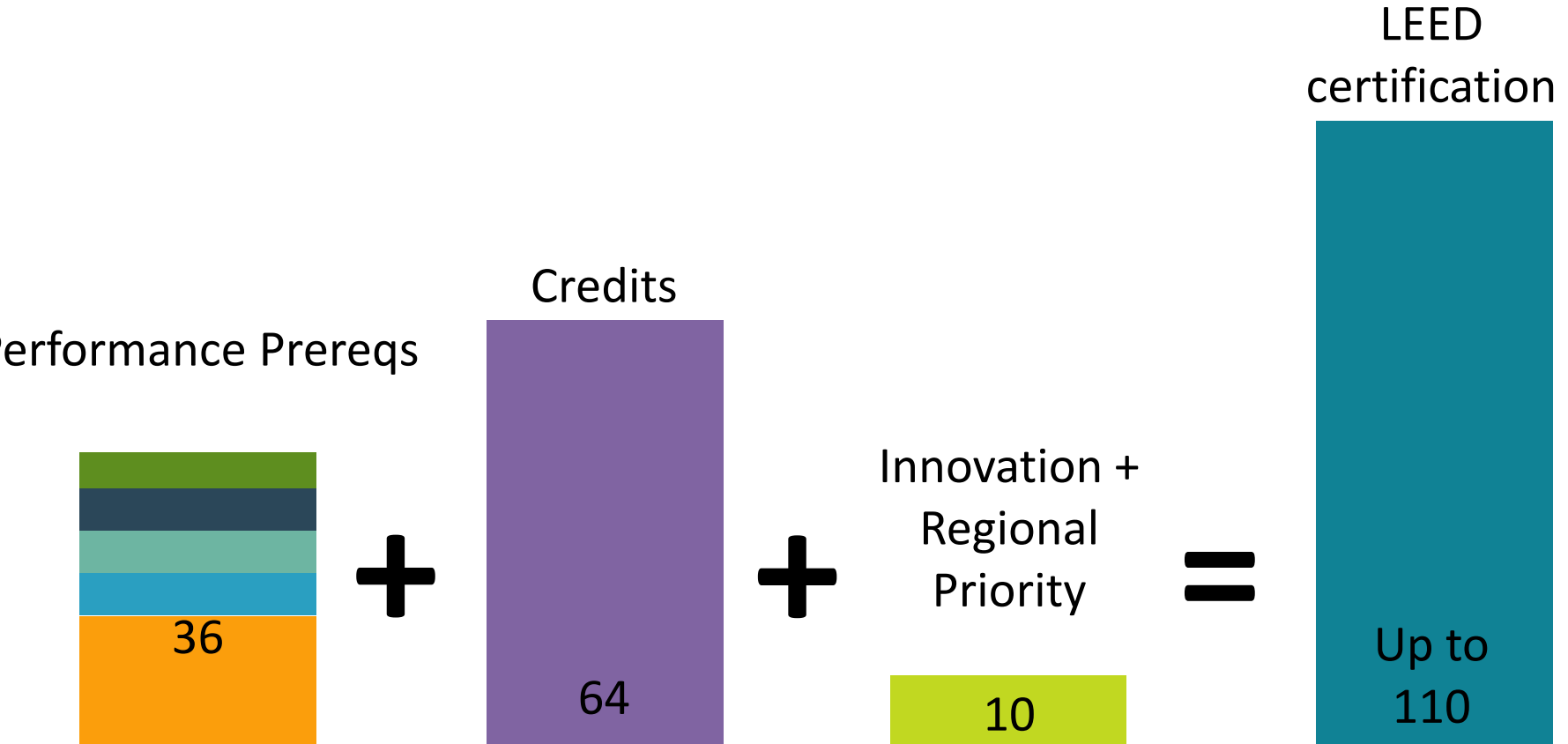
Demonstrate that at least 60% of households, compared to the National Typical, would spend less than 45% on housing and transportation combined. [1 point] **[OUTCOME]**



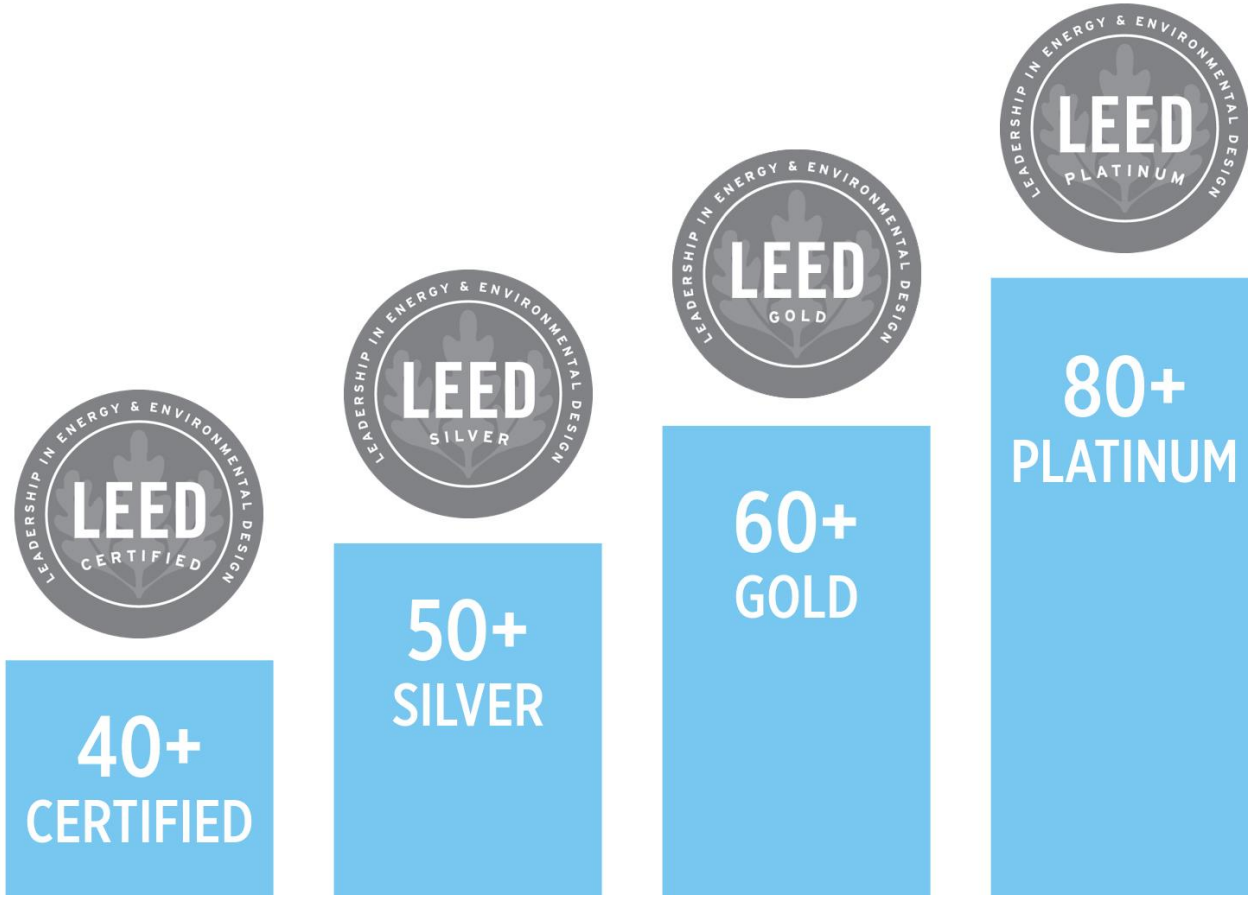
# Framework for LEED v4.1 for Cities and Communities: Existing

Category	Base Condition	Performance Score	Credits					
Integrative Process	n/a	n/a	Integrative Planning & Leadership	Green Building Policy & Incentives				
Natural Systems & Ecology	Ecosystem Assessment	n/a	Green Spaces	Natural Resources Conservation & Restoration	Light Pollution Reduction	Resilience Planning		
Transportation & Land Use	n/a	Transportation Performance	Compact, Mixed Use & TOD	Access to Quality Transit	Alternative Fuel Vehicles	Smart Mobility & Transportation Policy	High Priority Sites	
Water Efficiency	Water Access & Quality	Water Performance	Integrated Water Management	Stormwater Management	Smart Water Systems			
Energy & GHG Emissions	Power Access, Reliability & Resiliency	Energy & GHG Performance	Energy Efficiency	Renewable Energy	Low Carbon Economy	Grid Harmonization		
Materials & Resources	Solid Waste Management	Waste Performance	Special Waste Streams Management	Responsible Sourcing for Infrastructure	Material Recovery	Smart Waste Management Systems		
Quality of Life	Demographic Assessment	Quality of Life Performance	Trend Improvements	Distributional Equity	Environmental Justice	Housing & Transportation Affordability	Civic & Community Engagement	Civil & Human Rights
Innovation	n/a	n/a	Innovation					
Regional Priority	n/a	n/a	Regional Priority					

# Points & Scoring



# Certification Levels



# Engaging with LEED for Cities and Communities

## Step 1. Register

Register on LEED  
Online.

Review rating  
systems, tools and  
resources.

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## Step 2. Certify

Gather and report data.

Submit for pre- or certification.

Celebrate your recognition.

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## Step 3. Continuously improve

Evaluate results.

Prioritize areas for improvement.

Share lessons learned.

Recertify.

More than 90 global  
cities and communities are certified





Representing  
nearly  
50 million  
people



# Support for the MWCOG Community

## Registrations:

- Frederick, MD
- Frederick County, MD
- Golden Triangle BID
- Reston Town Center, VA

## Certifications:

- Arlington County, VA
- District of Columbia
- Montgomery County, MD

Next steps??



