

Update on LEED

Joel Ann Todd

Chair, LEED Steering Committee, USGBC

September 23, 2009

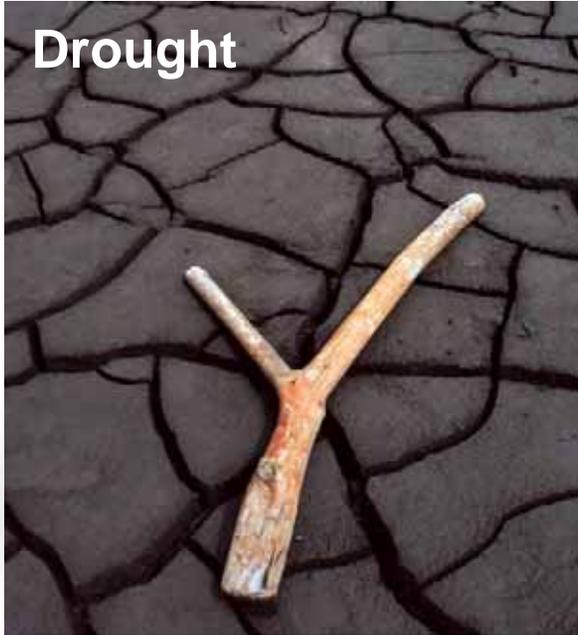
SFI Annual Conference, Nashville, TN

Change is Necessary

Climate Change



Drought



Arctic Ice Melt



Flood

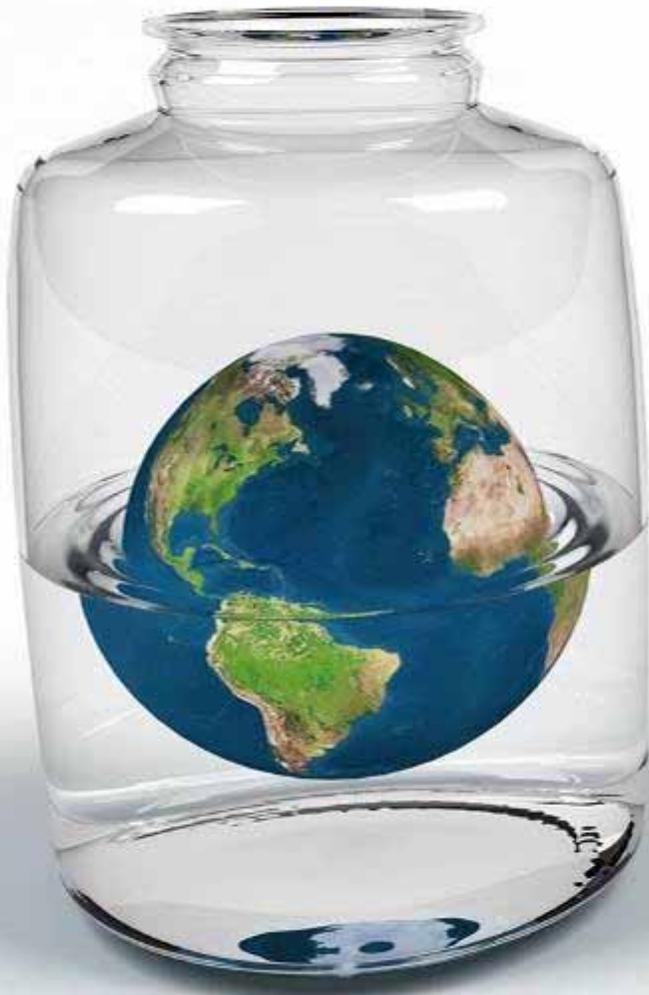


Heat Wave



Hurricanes

Change is Necessary



Average American footprint grew by 21% from 1992-2002

–USA: 24 acres per person

–Japan: 10.6 acres per person

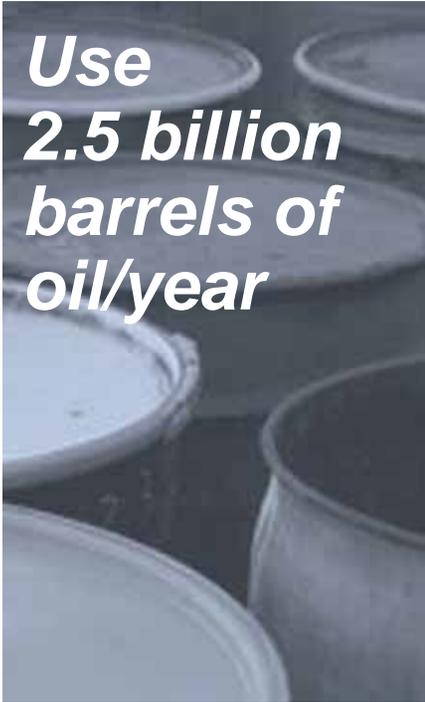
–Brazil: 5.2 acres per person

–China: 4 acres per person

–World's Ecological Footprint Exceeds Biocapacity by Nearly 21%

Change is Necessary

Impacts of Buildings



**Use
2.5 billion
barrels of
oil/year**



**Produce
30% of
total waste
output**



**Produce
30%
greenhouse
gas
emissions**



**Use
65% of
electricity
in US**

Change is Happening

Green Buildings are Change



Design, construction and operations practices that meet specified standards, resolve much of the negative impact of buildings on their occupants and on the environment

USGBC's Mission

To transform the way buildings and communities are designed, built and operated, enabling an environmentally and socially responsible, healthy, and prosperous environment that improves the quality of life.

USGBC's Vision

Buildings and communities will regenerate and sustain the health and vitality of all life within a generation.

USGBC Today....

Climate initiatives

Green schools initiatives

Affordable housing initiatives

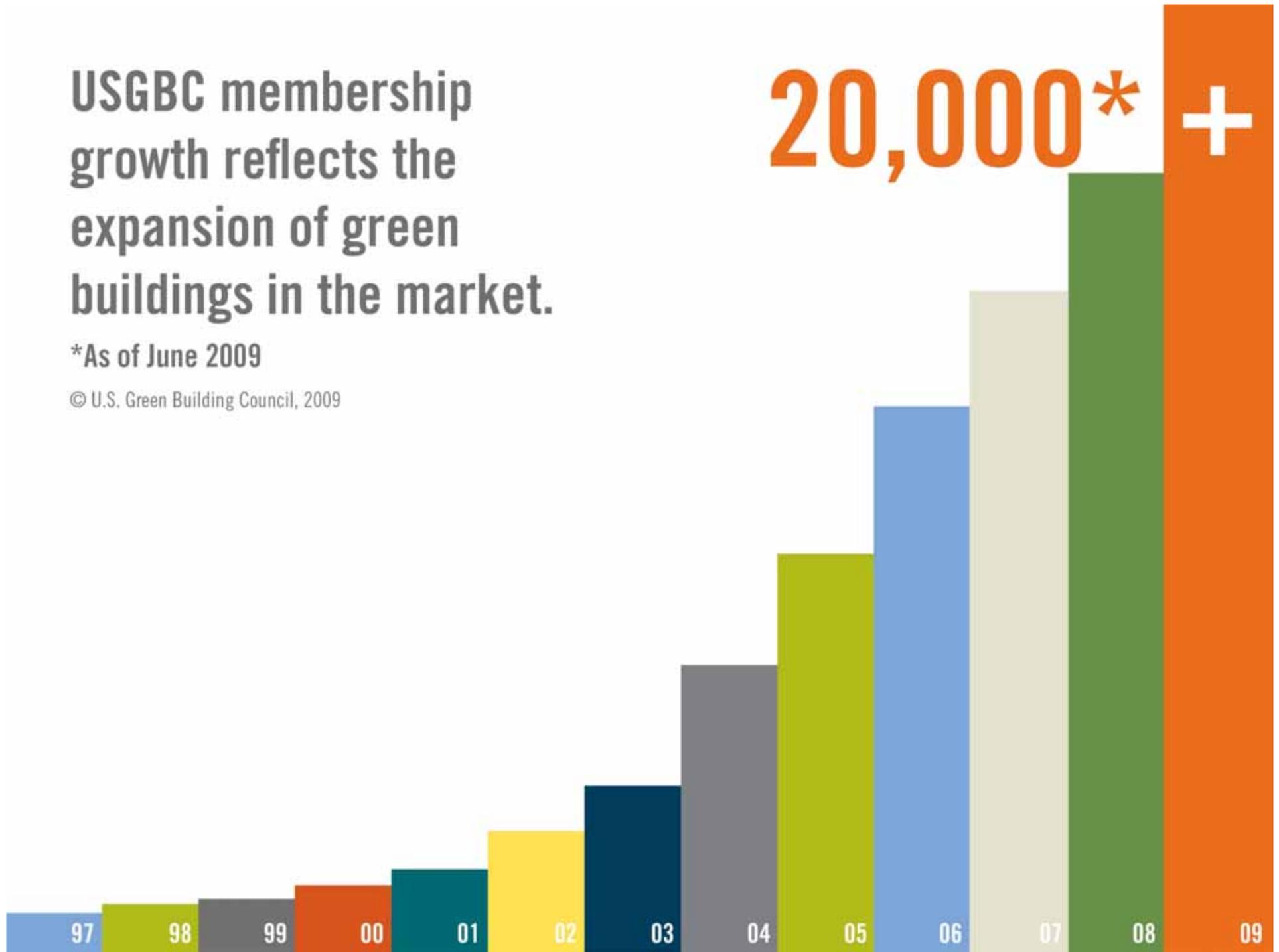
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LEED

USGBC membership growth reflects the expansion of green buildings in the market.

*As of June 2009

© U.S. Green Building Council, 2009





GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

114,291*

HAS ACHIEVED THE DESIGNATION OF

LEED® ACCREDITED PROFESSIONAL

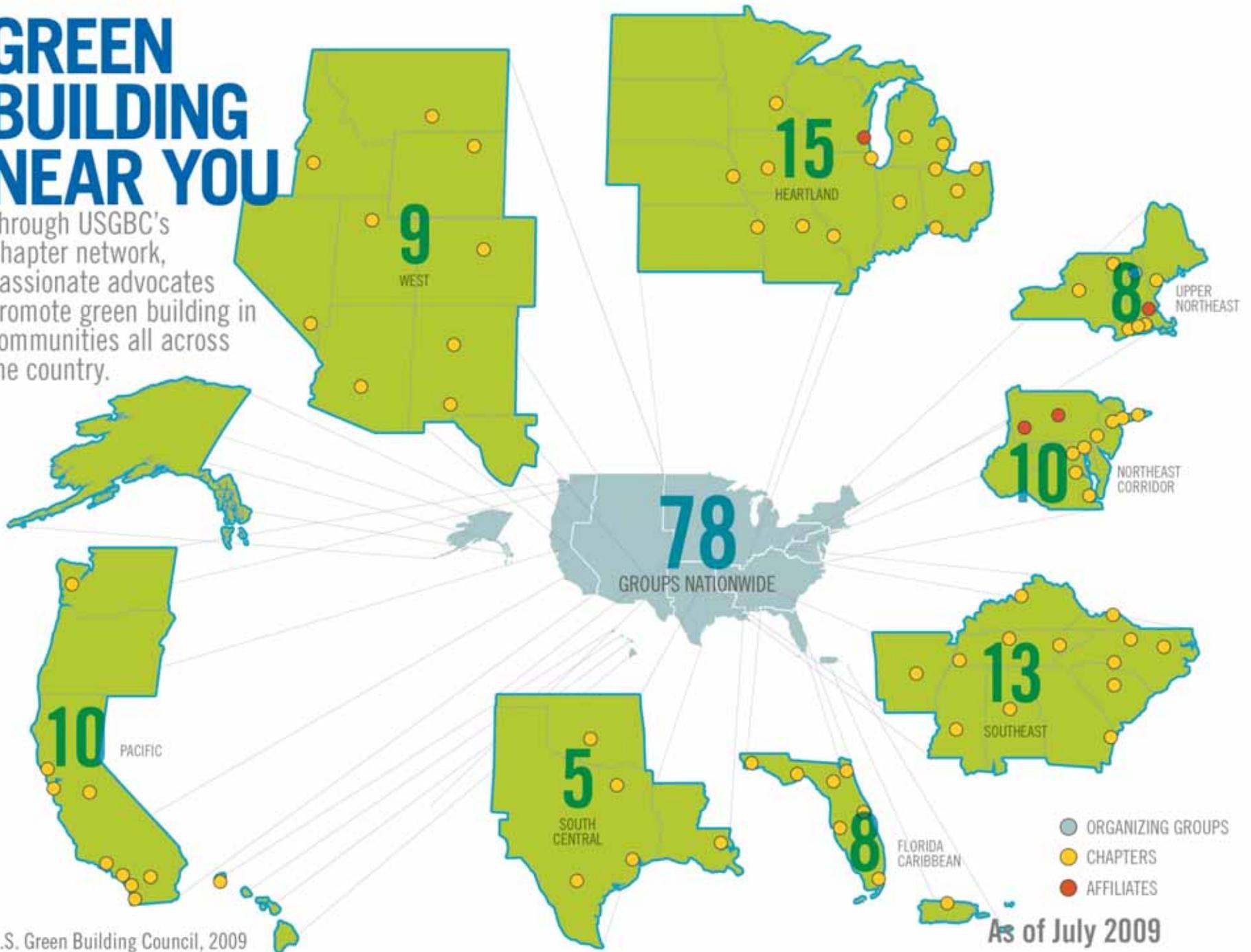
BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE
REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY
AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™.



*As of June 2009

GREEN BUILDING NEAR YOU

Through USGBC's Chapter network, passionate advocates promote green building in communities all across the country.





Leadership in Energy and Environmental Design

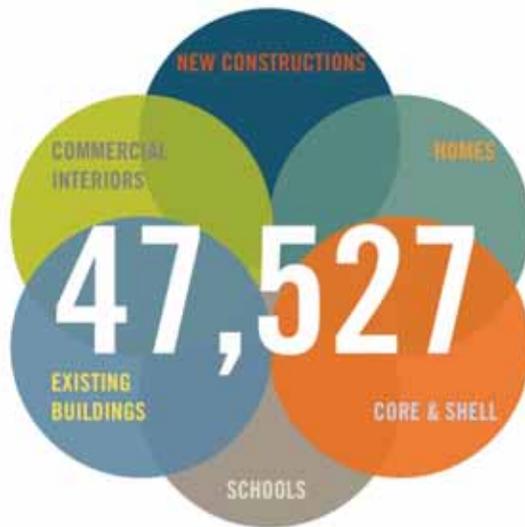
A leading-edge system
for certifying the
greenest performing
buildings in the world



LEED Addresses....



LEED Statistics Registrations and Certifications



As of June 2009

Commercial projects

24,769 registered

3,111 certified

385 million square feet



**Green Schools
are Springing Up
Everywhere**

LEED Certified: 169

Registered: 1,515

Photo by James Steinkamp

As of June 2009



HIGHER EDUCATION IS GAINING MOMENTUM

414 certified

3,016 registered

Photo by Richard Mandelkorn

As of June 2009

FEDERAL GOVERNMENT PROJECTS

143 LEED certified projects,
representing **19** million sf

2,831 registered projects,
representing **423** million sf

As of June 2009



Photo by Kim Roseberry/Oak Point Associates

STATE GOVERNMENT PROJECTS

250 LEED certified projects,
representing **28** million sf

1,809 registered projects,
representing **213** million sf

As of June 2009

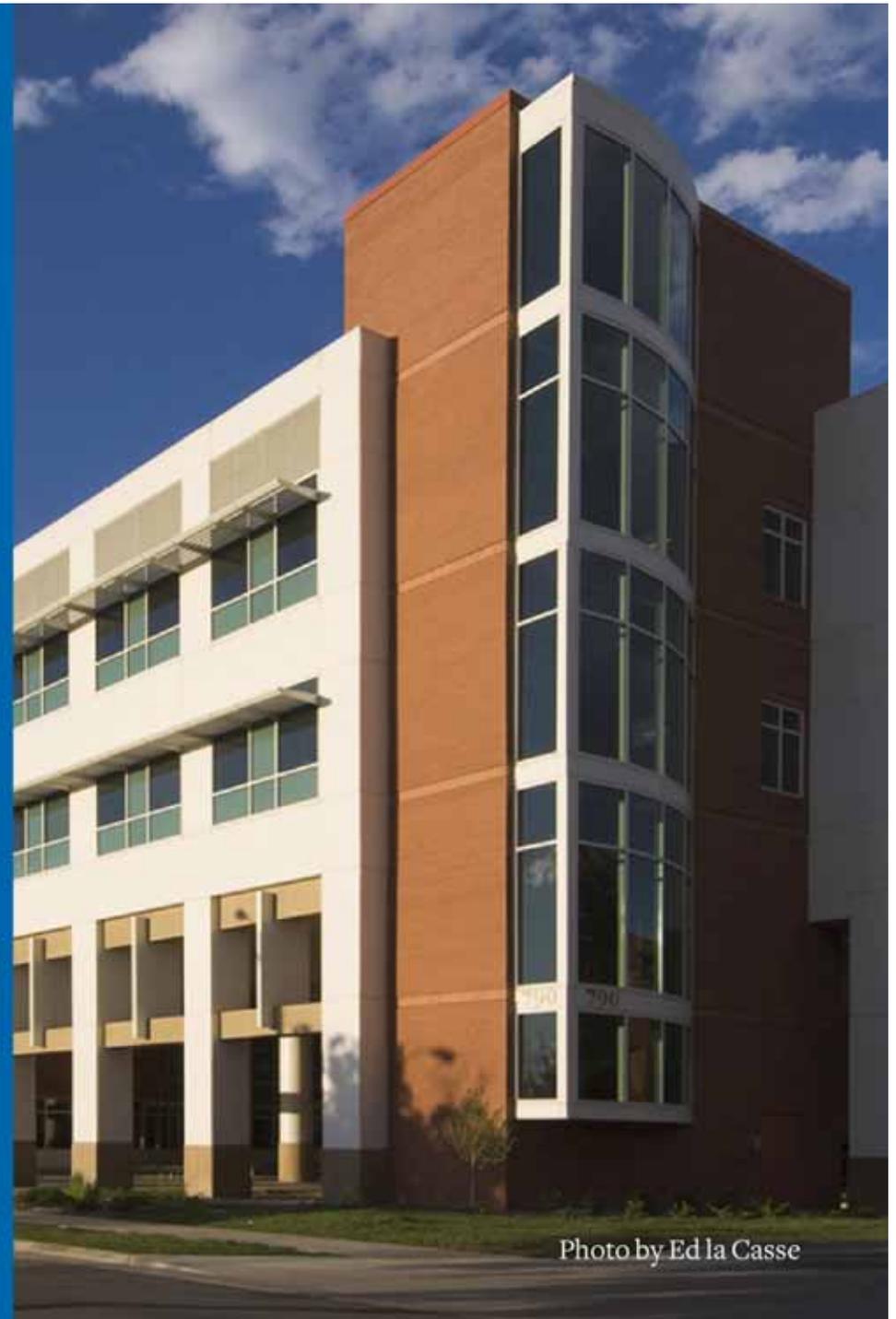


Photo by Ed la Casse

LOCAL GOVERNMENT PROJECTS

362 LEED certified projects,
representing **33** million sf

2,889 registered projects,
representing **354** million sf

As of June 2009

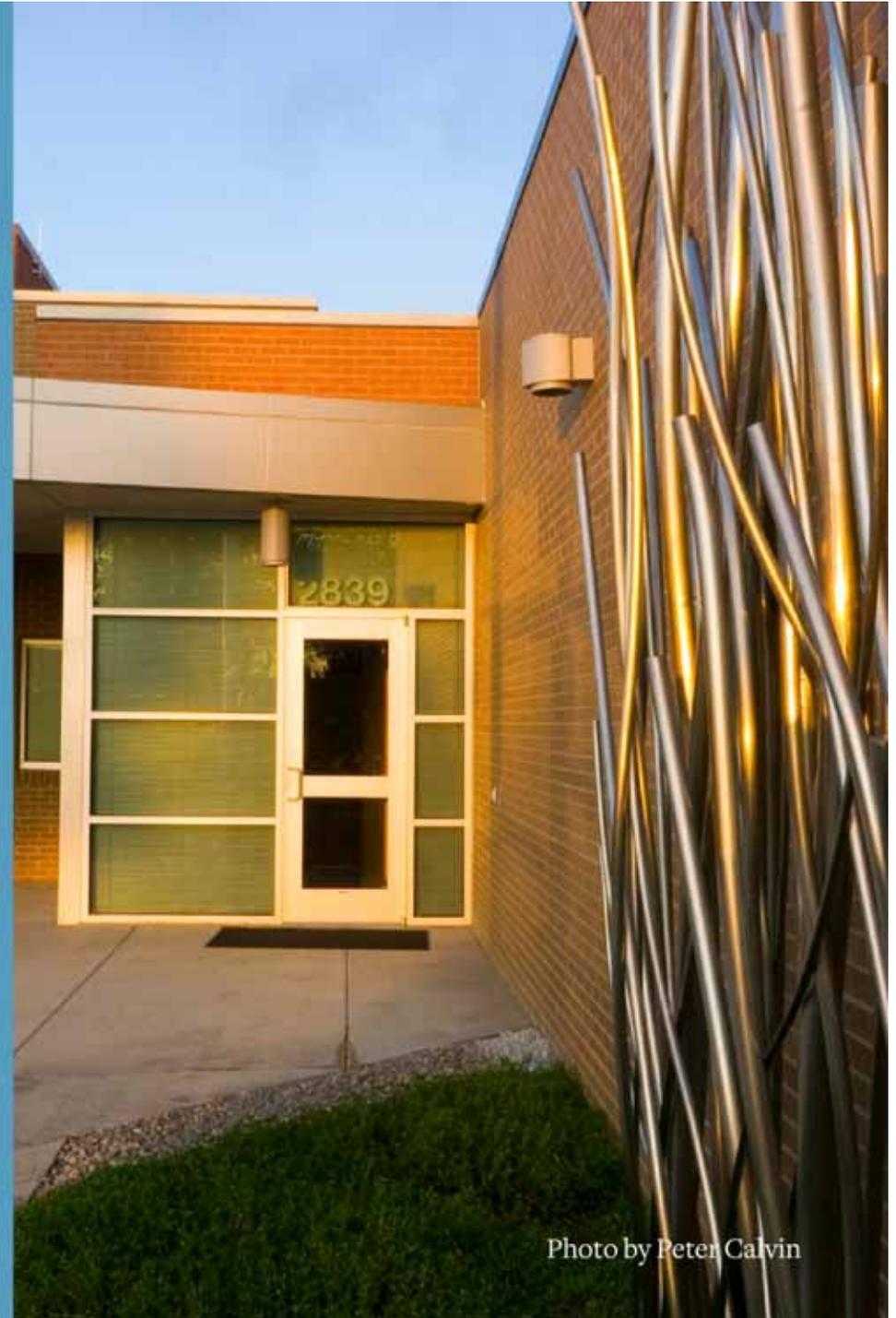


Photo by Peter Calvin

Program Status

38 providers

17,081 registered homes

2,566 certified homes

As of June 2009

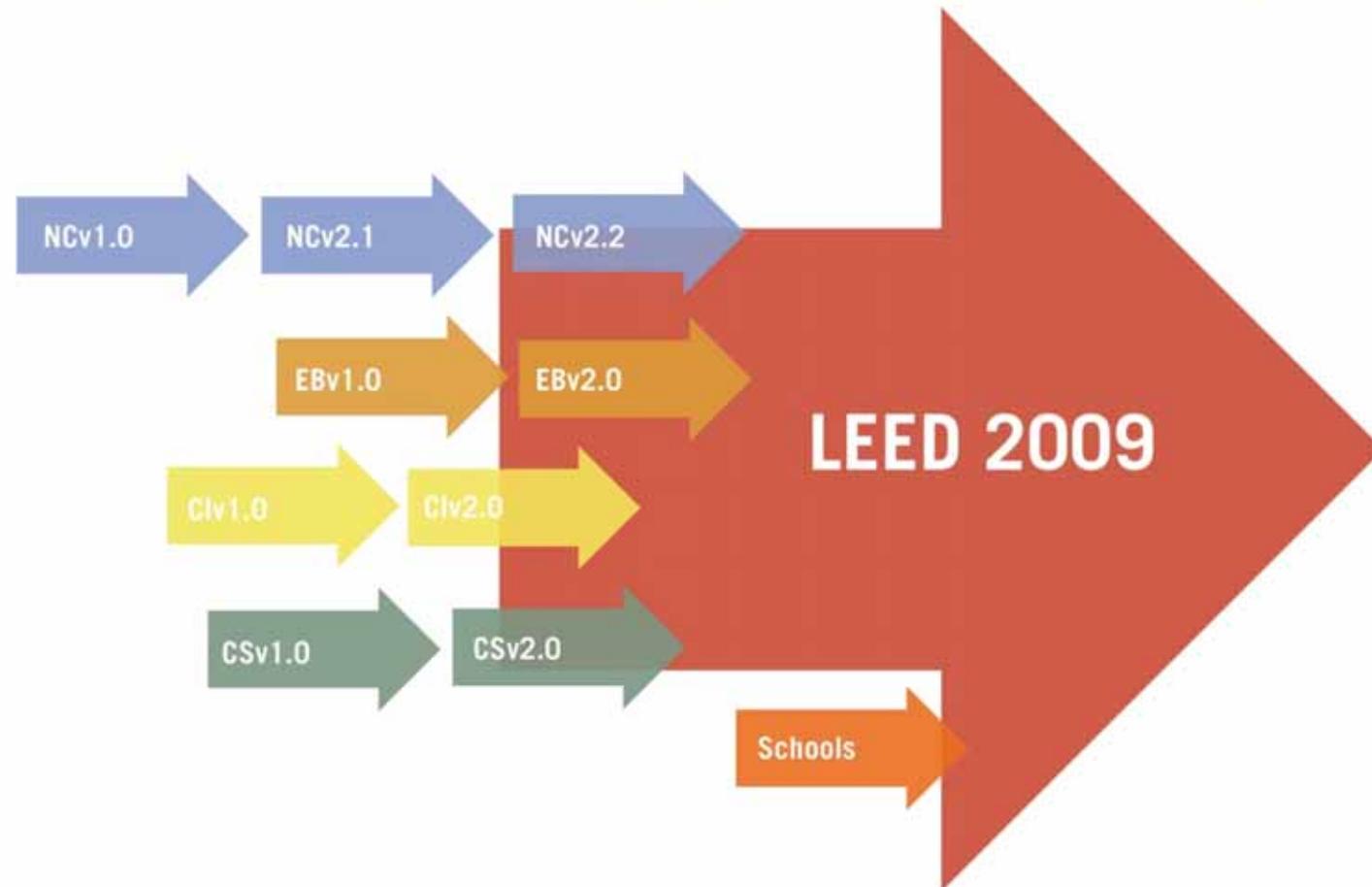


Where USGBC started in 1993....

- **BREEAM – only green building rating system, launched 1990 in UK**
- **AIA Committee on the Environment and *Environmental Resource Guide***
- **A few local programs, such as Austin Green Building Program**
- **Very few resources and tools**
- **Began work on LEED**

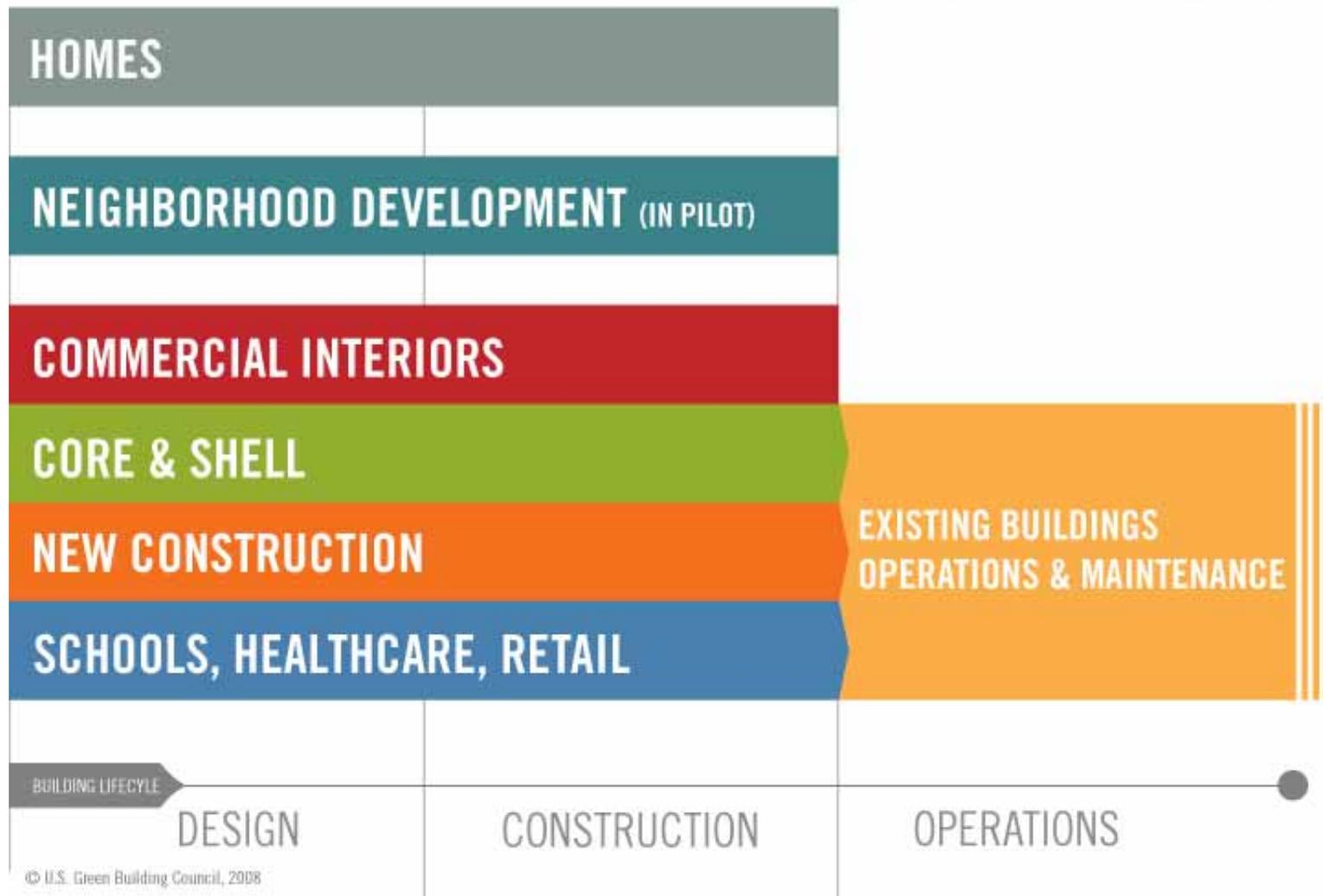
LEED – from 1999-2009

HISTORY OF LEED LAUNCHES



Addressing new markets....

LEED address the complete lifecycle of buildings:



Refining the rating system...

**Identifying and
incorporating new
standards and
references...**

Creating new tools and resources...

Getting Started: Tools

- Rating systems
- Reference guide
- Project checklist
- Credit Interpretation Requests (CIRs)
- LEED Online
- Educational workshops
- Project case studies
- www.usgbc.org



Opportunities for participation...

LEED Is Consensus-Based



Encouraging integrative design...

Cross-Functional Team

ENGINEERS OPERATIONS AND MAINTENANCE TEAMS
BUILDING OCCUPANTS BUILDING MANAGERS BUILDING
FACULTY ENVIRONMENTAL HEALTH AND SAFETY STAFF
GROUNDSKEEPERS CAPITAL PLANNING STAFF GROUNDSKEEPERS
UTILITY MANAGERS INTERIOR DESIGNERS UTILITY MANAGERS
CUSTODIAL TEAM PROPERTY MANAGERS CUSTODIAL TEAM
HUMAN RESOURCES BUILDING OWNERS HUMAN RESOURCES
PURCHASING STAFF ENVIRONMENTAL GROUPS
ENGINEERS OPERATIONS AND MAINTENANCE TEAMS
BUILDING OCCUPANTS BUILDING MANAGERS BUILDING

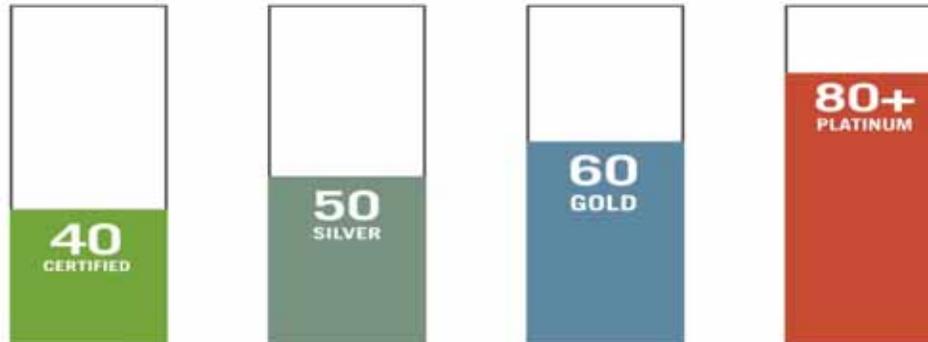
LEED 2009

- **Alignment and Harmonization of Rating Systems**
- **Move rating systems to 100 Point Scale**
- **Re-Weighting/Point Reallocation to drive positive environmental and human health impacts**
- **Introduction of Regional “Innovation Points”**
- **New certification process**

USGBC has four levels of LEED:



100-POINT SCALE

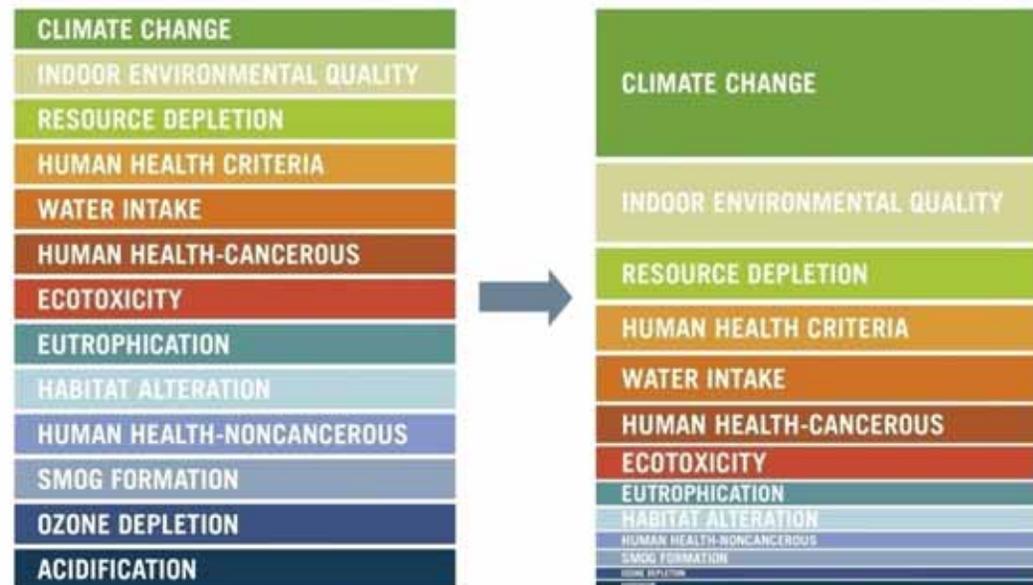


© U.S. Green Building Council, 2008

Weighting

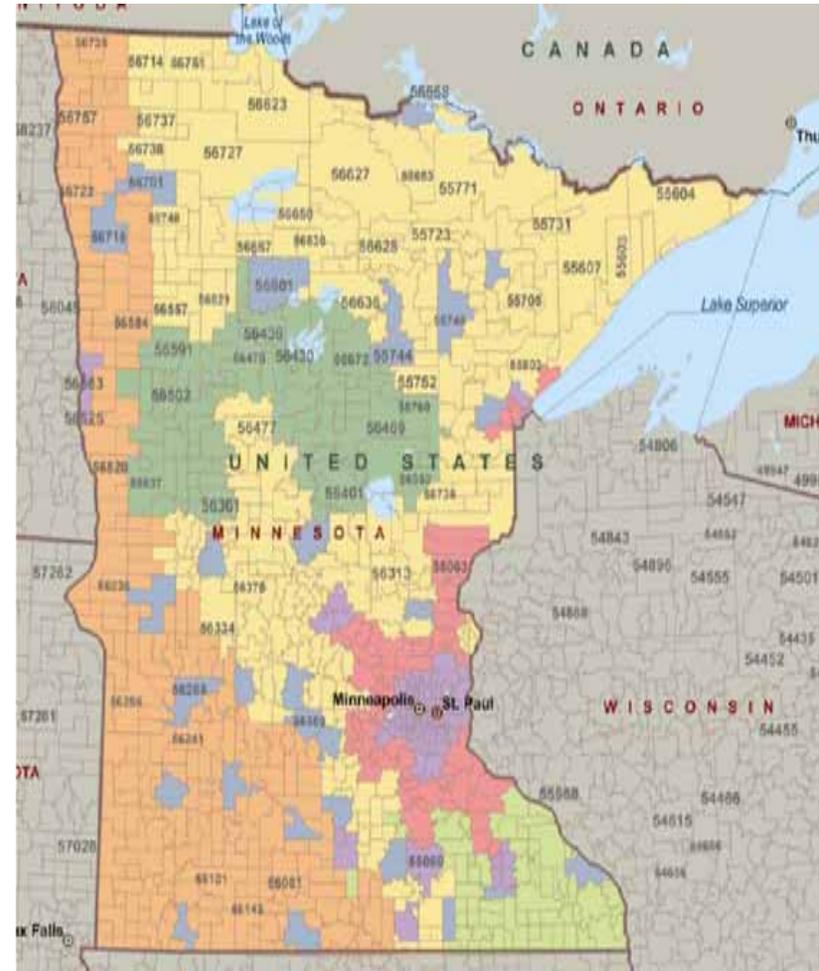
- **Weighting based on relationship of credits to impacts**
- **Based on available science, LCA, input-output analysis**
- **Encourage users to achieve most important credits**

IMPACT CATEGORIES



Regionalization

- Encourage users to achieve highest priority credits for each region of the United States
- USGBC Chapters define “environmental zones”
- Identify six important credits per zone
- A project can earn up to four Regional Bonus Credits



Certification Process

- **Green Building Certification Institute**
 - Third party certification
 - Experienced certification bodies
- **Why?**
 - Scalability, respond to demand
 - Expand capabilities and service
 - ISO compliance, ISO lessons
 - More consistent user experience

History: Certified Wood in LEED

- 2001 – credit introduced in LEED V2.0
- Proposal and comments on proposed changes for LEED V2.1
- 2006 – USGBC Board of Directors’ White Paper, LEED Steering Committee and Materials and Resources Technical Advisory Group initiated study and stakeholder involvement to explore revisions
- 2007 – Yale University School of Forestry Program on Forest Policy and Governance engaged, stakeholders consulted, report prepared
- 2008 – MR TAG proposed Forest Certification System Benchmark and revised credit
- 2008 – First public comment period on proposals (1,800 comments)
- 2009 – Revision of proposals based on public comments
- September 15, 2009 – Second public comment period begins (closes October 14, 2009)

Proposals: Certified Wood in LEED

- **Focus on transparency... clear definition of requirements for recognition in LEED**
- **USGBC Forest Certification Benchmark**
 - **Governance, Standards Substance, Chain of Custody/ Labeling, Accreditation and Certification Process**
 - **Requirements and Distinguishing Benchmarks**
- **Performance-based method for recognizing use of certified wood**
 - **Based on number of benchmarks achieved**
 - **4 levels**
 - **Replaces simple “pass-fail” approach**

Proposals: Certified Wood in LEED

- **Conformance assessment by expert panel based on submittal by certification programs**
- **LEED users will be provided information on certified systems and level of achievement**

Next Steps: Certified Wood in LEED

- **Public comment period:**
September 15, 2009 – October 14, 2009
- **Review and response to comments**

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graph TD; A[Review and response to comments] --> B[Further revision with additional public comment]; A --> C[Member ballot]; B --> C;
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Further revision with additional public comment

Member ballot

- **Credit language**
- **Benchmarks**

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