



LEED for Neighborhood Development

A Brief Overview

sustainability

What is LEED-ND?

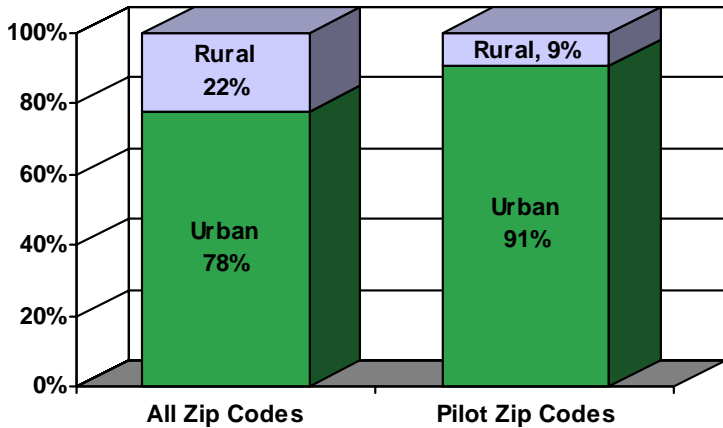
- LEED for Neighborhood Development
- First national standard for neighborhood design
- Developed as a partnership
 - U.S. Green Building Council
 - Congress for New Urbanism
 - Natural Resources Defense Council
- Integrates
 - Smart growth
 - New urbanism
 - Green building
- Promotes
 - Alternative transportation
 - Energy & water efficiency
 - Smart growth
- IN PILOT PHASE

Pilot Program

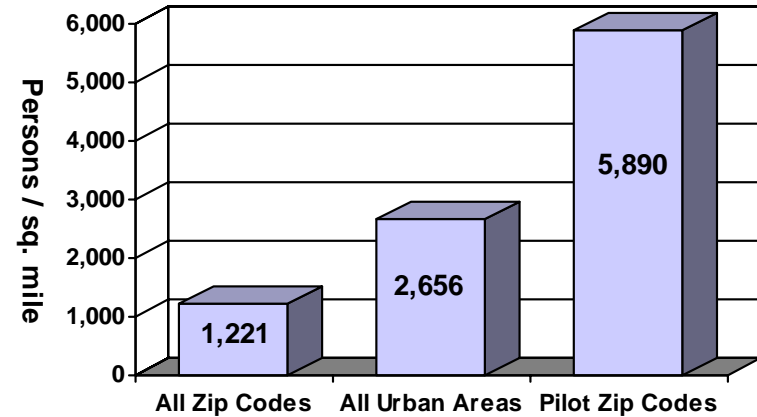
- Early 2007 call for projects
 - 238 projects accepted
 - Large variation in size
- 2008: Rating system revised based on feedback
 - Large # of projects
 - + Large variation in size and location
 - = Well vetted rating system
- 2009: Beta version of LEED-ND released

Pilot Project Characteristics

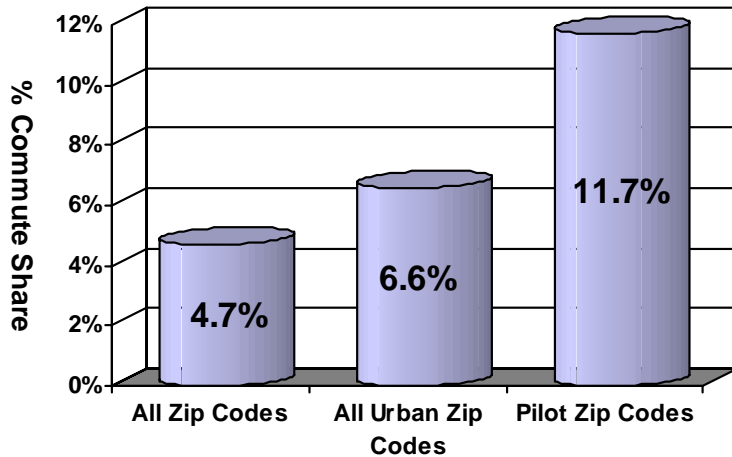
Urban/Rural Split



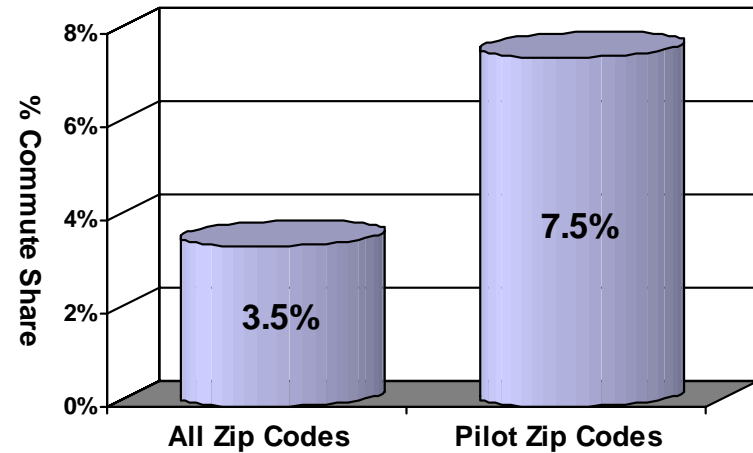
Population Density



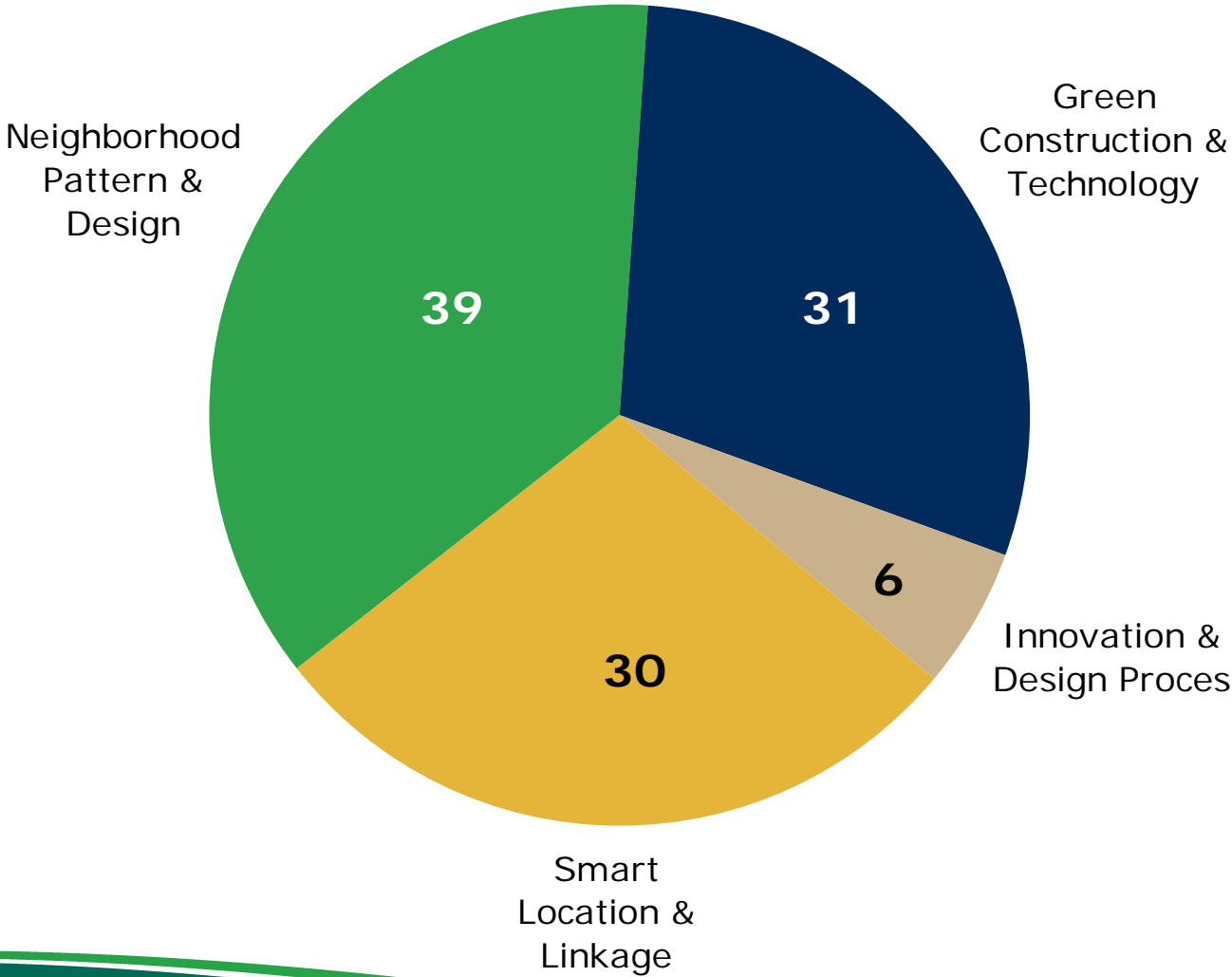
Transit Commute Share



Walk/Bike Commute Share

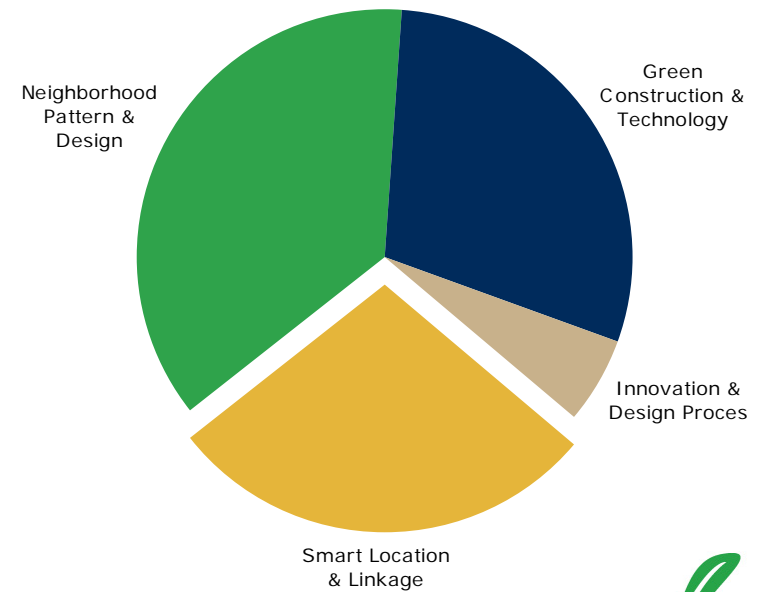


Possible LEED-ND Points by Category



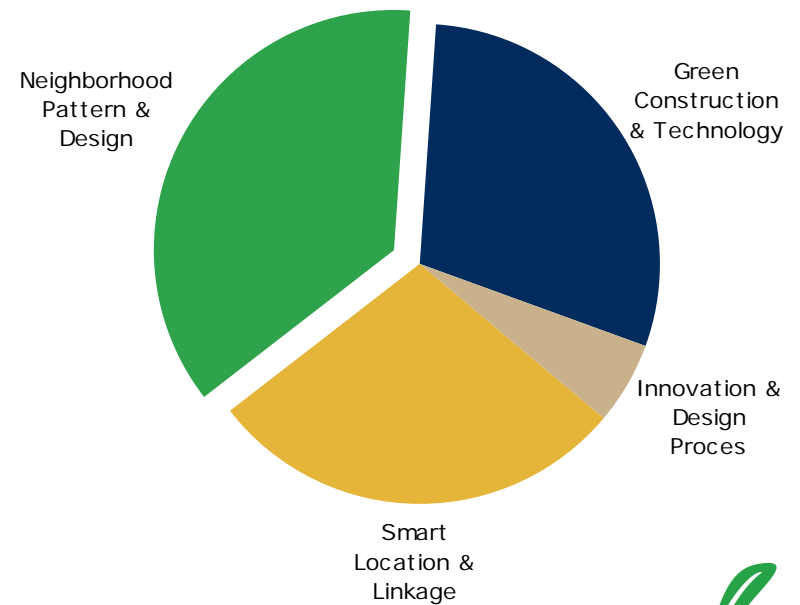
Smart Location & Linkage

- 6 Prerequisites
- 30 Points Possible Including:
 - Brownfield redevelopment
 - Bicycle network
 - Housing and jobs proximity
 - School proximity
 - Reduced automobile dependence



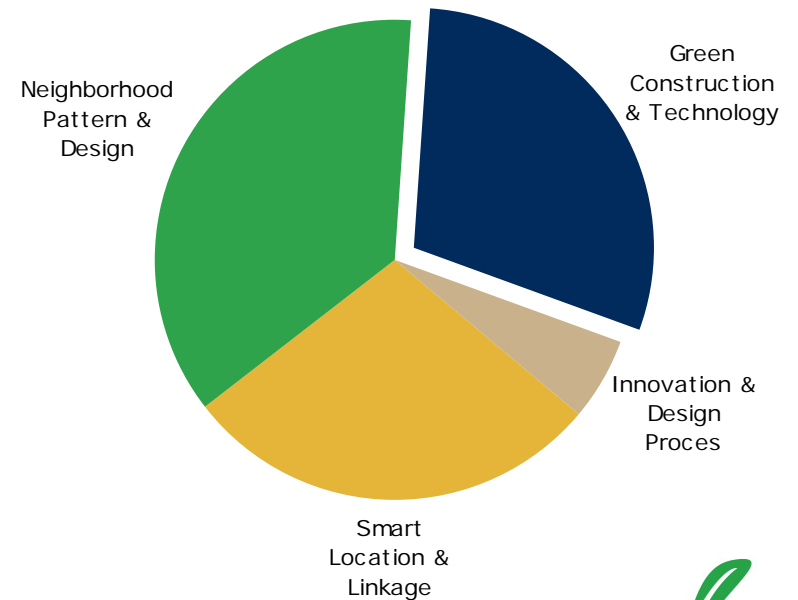
Neighborhood Pattern & Design

- 2 Prerequisites
- 39 Points Possible Including:
 - Diversity of uses
 - Affordable rental housing
 - Affordable for-sale housing
 - Walkable streets
 - Reduced parking footprint
 - Local food production

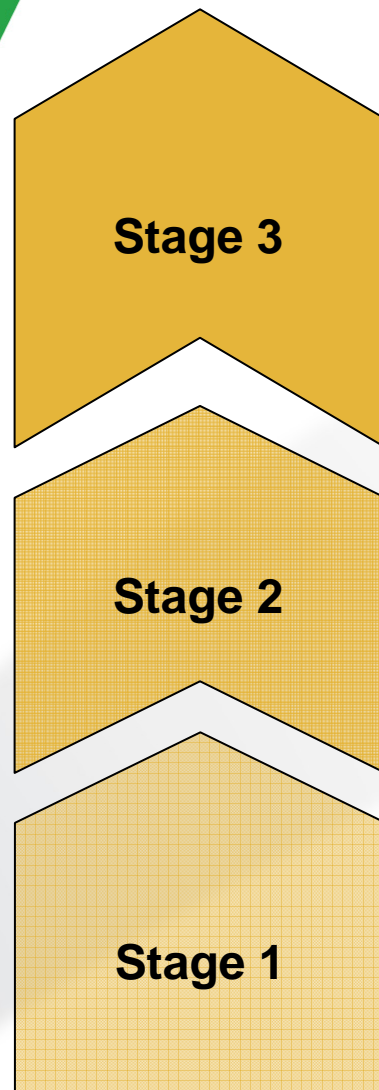


Green Construction & Technology

- 1 Prerequisite
- 31 Points Possible Including:
 - LEED certified buildings
 - Energy efficiency in buildings
 - Infrastructure energy efficiency
 - Reduced water use
 - Heat island reduction
 - Reuse of historic buildings
 - Solar orientation



Certification Process



- Construction is complete

- Plaques issued

- Approvals & entitlements granted

- Certificate stating plan is LEED-ND certified

- USGBC pre-review of plan (not required)

- Letter stating project on track for LEED-ND

Why LEED-ND?

- 1 in 10 preschoolers and 1 in 7 school-age children are overweight
 - Play spaces within walking distance are related to higher levels of childhood physical activity
 - People living in walkable neighborhoods are 2.4x more likely to get the recommended 30 minutes of daily exercise
- MVT has increased at 3x the rate of population growth in recent decades
 - People in high density urban communities are 2x as likely to walk/bicycle instead of drive
- From 1960 to 1990, the percentage of workers with jobs outside their counties of residence increased by 200%
 - Residents in high density urban communities are 2.5x more likely to use mass transit
- Per capita traffic casualties are ~ 4x higher for residents in low-density suburbs than for residents in high-density urban neighborhoods
 - On average, suburban residents drive 3x as much and twice as fast as urban dwellers
- Compared with older drivers, older non-drivers in the U.S. make 15% fewer trips to the doctor and 65% fewer trips for family activities
 - LEED-ND projects provide access to services and public transportation.

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