Transportation Category

New Location and

- Green Vehicles
- Reduced Parking Footprint
- Bicycle Facilities
- Access to Quality Transit
- Surrounding Density Diverse Uses
- High Priority Site
- Sensitive Land Protection
- LEED ND Location
Aspects of the Sustainability of a Project:

- Stormwater Management
- Site Design and Management
- Site Selection
- Transportation
Sustainable Sites

**Most Sustainable Sites:**

- Reduce Transportation Demand
- Manage Stormwater to Protect Water Quality
- Minimize Impacts of Light Pollution
- Restore Degraded or Contaminated Areas
- Restore Aquatic Ecosystems
Brownfield. Previously used or developed land that may be contaminated with hazardous waste or pollution. Remediate = Reusable Opportunity

- promote infill and reduce sprawl
- restore degraded urban land

Sustainable Sites Assessments and Measurements
Community Connectivity: The amount of community connectivity measured by proximity of the site to homes, schools, parks, stores, restaurants, medical facilities, and other services and amenities.

Community Connectivity Assessments and Measurements.
Development Density. The total square footage measured in square feet per acre or units per acre. The total square footage of all buildings within a particular area.
A diversity of housing types allows households to accommodate different sizes, ages, and incomes. A neighborhood that includes a diversity of uses encourages walking, and its residents and visitors are less dependent on personal vehicles.

A neighborhood that includes a diversity of uses or housing types per acre. The number of types of spaces or housing types per acre. The number of types of spaces or housing types per acre.

Diversity of uses or housing types. Assessments and Measurements.
Sustainable Sites Assessments and Measurements

Floodplain. Land that is likely to be flooded by a storm of a given size (e.g., a 100-year storm)
Sustainable Sites Assessments and Measurements

The relationship between the total building floor area and the allowable land area the building can cover in green building, less disruption of the existing or created landscape.

A smaller building footprint means less the object is to build up rather than out because a smaller building footprint means less disruption of the existing or created landscape.

Floor-area ratio. The relationship between the

Assessments and Measurements
Sustainable Sites Assessments and Measurements

Grid density and wide streets. Pedestrian-friendly than one with a low street interconneced streets is more likely to be community with high street grid and narrow, community with high street grid and narrow. Centerline miles per square mile. Centerline neighborhood density, calculated as the number of street grid density. An indicator of.
Assessments and Measurements

Transportation demand management. The process of reducing peak-period vehicle trips.
Vehicle miles traveled (VMT). A measure of transportation demand that estimates the travel miles (e.g., in high occupancy autos).

A measure of transportation demand that estimates the travel miles (e.g., in high occupancy autos). Sustainable Sites Assessments and Measurements...
Transportation
Sustainable Sites

Transportation Strategies:

- Support Alternative Transportation
- Offer Incentives
- Promote Alternative-fuel Vehicles
- Encourage Carpooling
- Limit Parking
- Locate near mass transit
Sustainable Sites
Site Selection
Site Selection - Strategies

- Increase Density
- Choose Redevelopment
- Protect Habitat
Sustainable Sites
Sustainable Sites
New Location and Transportation Category

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- LEED ND Location
Only Stage 2 & 3 LEED ND projects
Can’t double dip w/ other LT credits
Locate in a LEED ND certified
LT CR: LEED for ND Location
<table>
<thead>
<tr>
<th>LEED ND Points</th>
<th>LEED ND</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Platinum</td>
</tr>
<tr>
<td>12</td>
<td>Gold</td>
</tr>
<tr>
<td>10</td>
<td>Silver</td>
</tr>
<tr>
<td>8</td>
<td>Certified</td>
</tr>
</tbody>
</table>

LT CR: LEED for ND Location
• Sensitive Land Protection

- Minor improvements w/ i water buffers are

- Wetlands w/ i 50’ (15m)

- Water bodies w/ i 100’ (30m)

- Habitat – defined by NatureServe

- Floodplains shown on flood hazard map

- Prime Farmland

- Pre-developed site

(2009. Site Selection)

LT CR: Sensitive Land Protection
• Brownfield

• A locally equivalent zones outside the US

• Various environmentally or economically stressed zones in the US (i.e. HUD, EPA, Commerce, etc.)

• Historic districts

(2009, Brownfield Redevelopment)

LT CR: High Priority Site
<table>
<thead>
<tr>
<th></th>
<th>Nonresidential Density (FRA)</th>
<th>Residential Density (DUI/acre)</th>
<th>Land acre or buildable square feet per mi²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diverse Use</td>
<td>Separate Residential and Nonresidential densities</td>
<td>Combined density</td>
<td></td>
</tr>
<tr>
<td>Points</td>
<td>Points</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>0.8</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>0.5</td>
<td>7</td>
</tr>
</tbody>
</table>

- **Density w/1 % mi²**

(2009 Development Density & Connectivity)

8 Diverse Use

LT Cr: Surrounding Density
Community anchor uses

Civic and community facilities

Services

Community serving retails

Food retails

Diverse uses w/i ½ mi walking routes


8 Diverse Use

LT CR: Surrounding Density
<table>
<thead>
<tr>
<th>Points</th>
<th>Weekends</th>
<th>Weekdays</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>216</td>
<td>360</td>
</tr>
<tr>
<td>3</td>
<td>108</td>
<td>144</td>
</tr>
<tr>
<td>1</td>
<td>40</td>
<td>72</td>
</tr>
</tbody>
</table>

Ex: Municipal Transit Trips

(2009, Public Transportation)

LT CR: Access to Quality Transit

• # of trips instead of # of stops/stations
• Liquid, Gas or Battery Switching Stations for 2%
  Electric Charging Stations for 2%
  - Green Vehicles = 15.4 l/km or higher
  - Green Vehicles = min. 45 in ACEEE in the US
• 5% of Parking or 20% D/C for Green Vehicles

(2009, Lefev)
LT CR: Green Vehicles
Minor Changes

- Bicycle Facilities
  - More detailed requirements for shower rooms
  - Reduced Parking Footprint

(table included in Reference Guide)

Baseline — Transportation Planning Handbook
New Location and Transportation Category

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