Places for People: How Transportation Choices, Infill development and Good City Design Can Reshape our Communities

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Rahm Emanuel
Mayor
Transportation Infrastructure and Cities

- Infrastructure in Poor Condition
- Direct Effect on Behavior

- Large Capital Projects with a Long Design Life
- 50% Population Threshold

Transportation: 30%
Buildings and Other Energy Uses: 61%
Other: 9%
Public Space

Public Right of Way = Public Space
Public Health

- Obesity cost the state more than $700 million every year and cost individuals an additional $1,429 annually — 42% more than normal weight persons.

-Illinois Cardiovascular Task Force, June 2000
Housing and Transportation Costs

Percent of Average, Median Household Income Spent on Transportation by Neighborhood

Source: CNT.org
Carbon Emissions and Transportation

Two Views of Cities and CO₂

CO₂ Generated by Automobiles in the Chicago Region per Year

Traditional View:
Cities produce large amounts of GHGs.

Emerging View:
City dwellers produce relatively low amounts of GHGs.

Source: CNT.org
Old Fashioned and New Fashioned Sustainability

Minimize impact on land, air and water resources

Accommodate the needs of ALL users in a limited amount of space

Public Space = Public right of Way = 23% of land area

Minimize impact on land, air and water resources
Support Economic Development

Improve Public Safety and Public Health

Enhance Quality of Life and Sense of Place

Upgrade Infrastructure

Be Multi-modal and Transit Friendly

Incorporate Sustainable Best Practices

Ensure Maintainability

Be Beautiful

 ..........and cost less.
So How Do We Achieve This?

- Work Closely with Sister Agencies, Fellow Departments, & IDOT

- Establish Guiding Documents:
  - Fast Forward Chicago
  - Streetscape Design Guidelines
  - Complete Streets Design Guidelines
  - Sustainable Design Guidelines
  - Pedestrian Plan
  - GoTo 2040 Bike Plan

- Public/Private Partnerships
  - Community Organizations

- Design for the 21st Century
  - Advance New Technologies
  - Drive New Material Development
  - Digital Public Way

- Partner with Utilities to Better Manage the Public Way
So How Do We Achieve This?

-Balance safety, mobility, community and environmental goals in all projects

-Involve the public and stakeholders early and continuously throughout the planning and project development process

-Use an interdisciplinary team tailored to project needs

-Address all modes of travel

-Apply flexibility inherent in design standards

-Incorporate aesthetics as an integral part of good design
Lincoln Square Neighborhood existing assets
Lincoln Square and Giddings Plaza
Streetscapes – Lawrence Avenue

Existing Cross Section
Streetscapes – Lawrence Avenue

Proposed Cross Section
Protected Bike Lanes – Stony Island Cycle Track
People Spots (aka: parklets, pop-up cafes) are platforms built in the parking lane next to sidewalks in neighborhoods with narrow sidewalks or high pedestrian volumes.

People Streets convert “excess” asphalt into hard-scape parks with the purpose of creating safer intersections and/or the addition of open space in neighborhoods with open space deficits.

People Plazas will activate existing CDOT Malls, Plazas and Triangles with the introduction of new programming and retail opportunities with private partners.
Green Alley Program

- 1,900 miles of public alleyways in Chicago, the largest of any city in the world.
Maxwell Street Permeable Market Plaza

Sept 2008 - Feb 2009

1/16/09 (temp in degrees)
Air: -7.0
Deep: 38.6
Middle: 34.1
Shallow: 33.4
Bloomingdale Trail

Humboldt Park
Lake Michigan
The Cermak / Blue Island Sustainable Streetscape

**Sustainable Goals**
- Stormwater Management
- Water Efficiency
- Transportation
- Energy Efficiency
- Recycling
- Urban Heat Island, Air Quality
- Education, Beauty & Community
- Commissioning
BENITO JUAREZ HIGH SCHOOL WATER FEATURE
The Cermak / Blue Island Sustainable Streetscape

Integrated Infrastructure Design Example: Blue Island Cross-section

- Permeable Pavement for Stormwater Management
- Photocatalytic for Air Quality
- High SRI for Lighting and UHI
- Bike/Parking Lane
- ½ Inch Paver Facemix
People, especially children, can not be expected to maintain what they do not understand.
# National and Local Rating Systems

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<th>CATEGORY</th>
<th>Design Strategy</th>
<th>I-LAST Rating System (IDOT)</th>
<th>Green Roads Rating System</th>
<th>Sustainable Sites Initiative</th>
<th>LEED-ND</th>
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<td>Identify Stakeholders and develop Stakeholders Involvement Plan</td>
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<td>Engage Stakeholders to conduct Context Audit and develop project purpose</td>
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<tr>
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<td>Involve Stakeholders to develop and evaluate alternatives</td>
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<tr>
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<td>Employ Stakeholder involvement techniques to achieve consensus for Preferred Project Alternative</td>
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### TOTAL POINTS EARNED:

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<th>228</th>
<th>118</th>
<th>250</th>
<th>100</th>
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<td>Percentage % of possible points:</td>
<td>57%</td>
<td>67%</td>
<td>40%</td>
<td>32%</td>
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<td>Ranking:</td>
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<td>Evergreen (&gt;60% of total)</td>
<td>One Star (Four Star possible)</td>
<td>(need 8 more Points to become &quot;Certified&quot;)</td>
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Stimulating New Jobs and the Economy

For every 1.25 Billion spent...

- New Infrastructure: 43,200 jobs
- Infrastructure Rehabilitation: 47,000 jobs
- Green Infrastructure: 51,200 jobs

Source: FHWA Jobs Decoder
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