Bicycle & Pedestrian Programs and Design Movements
Overview

• Transportation
  – Complete Streets
  – Context Sensitive Design/Solutions
  – Traffic Calming
  – Shared Streets

• Design
  – New Urbanism
  – Traditional Neighborhood Design
  – Smart Growth
  – Active Living & Public Health
Complete Streets

Safe, comfortable, and convenient for travel for everyone, regardless of age or ability – motorists, pedestrians, bicyclists, and public transportation riders.
Complete Streets

Why policy is needed:

• Streets currently designed for cars
• Inconvenient & dangerous for other modes
• Improves efficiency & capacity of existing roads
• Long-term benefits
Complete Streets

Find specifics on the Complete Streets Atlas: www.completestreets.org/atlas
Context Sensitive Design

A collaborative, interdisciplinary approach that involves all stakeholders in providing a transportation facility that fits its setting.
Context Sensitive Design

1. Shared stakeholder vision to provide a basis for decisions

2. Demonstrate an understanding of contexts

3. Foster continuing communication & collaboration to achieve consensus

4. Exercise flexibility and creativity to shape effective solutions, while preserving and enhancing community and natural environments.
Benefits of Context Sensitive Design

- Improved predictability of project delivery
- Improved environmental stewardship
- Improved stakeholder/public feedback
- Decreased time for overall project delivery
- Improved mobility for users
- Improved safety (vehicles, pedestrians, and bikes)
- Design features appropriate to context
Traffic Calming

Traffic calming involves changes in street alignment, installation of barriers, and other physical measures to reduce traffic speeds and/or cut-through volumes, in the interest of street safety, livability, and other public purposes.

Engineering for:

- Speed control
  - Speed bumps
  - Traffic circles
  - Raised cross walks
- Volume control
  - Diverters
Traffic Calming

- Encourage citizen involvement
- Reduce vehicular speeds
- Promote safe and pleasant conditions for all users
- Improve the livability of neighborhood streets
- Improve real and perceived safety for nonmotorized users
- Discourage use of residential streets by cut through vehicular traffic
**Bicycle Boulevard**

- Attractive, convenient shared roadway
- Low-volume, low-speed streets
- Traffic calming
- Signage & pavement marking
Design Movements

• New Urbanism

• Traditional Neighborhood Design

• Smart Growth

• Active Living & Public Health
New Urbanism

- Livable streets arranged in compact, walkable blocks.
- A range of housing choices to serve people of diverse ages and income levels.
- Schools, stores and other nearby destinations reachable by walking, bicycling or transit service.
- Human-scaled public realm where appropriately designed buildings define and enliven streets
New Urbanism

Connections
• Grid streets
• Compact blocks
• Transportation choices

Sustainability
• Efficient infrastructure
• Infill over sprawl
Traditional Neighborhood Design

- Variety of housing types
- Variety of land uses
- Public and private space of equal importance
- Network of paths & streets
10 Principles of Smart Growth

1. Compact design
2. Range of housing choices
3. Walkable neighborhoods
4. Community collaboration
5. Distinctive, attractive communities
6. Predictable, fair, & cost effective development decisions
7. Mix land uses
8. Preserve open space, farmland, & critical environmental areas
9. Variety of transportation choices
10. Direct development to existing areas
• Incorporate physical activity into daily life

• Built environment impacts
  – Neighborhoods
  – Transportation system
  – Buildings
  – Parks & public space

• Preventing obesity in youth and families
Discussion