Multimodal Options & CSS Guidelines

Topics for Multimodal Options

- Introduction:
  - What makes a place successful?
  - Multimodal options in the context of Place & Network
  - The NCSU Brickyard: Successful place, access & linkages?
- CSS approach to multimodal options
  - Networks, corridors, thoroughfares, the traveled way, roadside, & amenities
  - Integrated land use & multimodal planning/design
- Networks & CSS multimodal guidelines
  - Southern Village networks
  - Multimodal evaluation
- Thoroughfares & CSS multimodal guidelines
  - Hillsborough Street thoroughfare concepts
  - Multimodal evaluation
    - Pedestrians, transit, bicyclists, motorists & parking
    - Emergency vehicles & delivery trucks
- Wrightsville Beach team exercise
What makes a place successful?

Multimodal access & linkages, comfort, activities & sociability help make a place successful!

- Multimodal Intersection, PPS.org
- Copenhagen, PPS.org
- Denver Transit Mall, PPS.org
- Pioneer Court House Sq, Portland, OR, PPS.org
Questions to Evaluate Multimodal Access & Linkages Supporting a Successful Place

• Can you see the space from a distance? Is its interior visible from the outside?
• Is there a good connection between the space & the adjacent buildings, or is it surrounded by blank walls? Do occupants of adjacent buildings use the space?
• Can people easily walk to the place? For example, do they have to dart between moving cars to get to the place?
• Do sidewalks lead to & from the adjacent areas?
• Does the space function for people with special needs?
• Do the roads & paths through the space take people where they actually want to go?
• Can people use a variety of transportation options - bus, train, car, bicycle, etc. - to reach the place?
• Are transit stops conveniently located next to destinations such as libraries, post offices, park entrances, etc.?

Is the NCSU Brickyard a successful place?

• Access & linkages?
• Comfort & images?
• Uses & activities?
• Sociability?
• Recommendations?
**CSS Approach for Multimodal Options**

- Identify Context
- Define Problem
- Identify Stakeholders

**Considerations**

- **Stakeholder Involvement: Public, Agencies, & Interest Groups**
  - The Human & Natural Environments
  - Engineering & Technical Design

**Multimodal CSS Planning & Design in an Urban Context**

- The network
- Corridors
  - Vehicle corridors
  - Transit corridors
  - Pedestrian “paths”
  - Bicycle routes
- The traveled way
  - Thoroughfares
  - The wayside
- Intersections
- Amenities
CSS Multimodal Approaches

- New (green field) integrated land use & multimodal transportation planning/design
  - New urbanism & neo-traditional developments
  - Retirement communities
  - Resort communities
- Reuse & redevelopment of existing land use & transportation facilities to include enhanced transit, pedestrian & bicycle facilities.
  - Suburban & urban redevelopment
  - Gentrification of older, central neighborhoods
- Major facility reconstruction

CSS Multimodal Planning & Design:
Networks, Corridors, Traveled Ways, Intersections & Amenities
Networks & CSS Multimodal Guidelines

- Organize networks as multimodal thoroughfares by context, zone & functional class/type.
- Support longer distance movements.
- Select ROW to balance community context, capacity & modes.
- Include autos, trucks, transit, bicycles & pedestrians.
- Focus transit networks on transit oriented developments.

Southern Village Networks

- New green field design
- Neo-traditional neighborhood, mixed use development
Southern Village Multimodal Evaluation

• Successful Place?
  – Access & linkages?
  – Comfort & images?
  – Uses & activities?
  – Sociability?

• Successful multimodal options?
  – The network
  – Corridors
    • Vehicle corridors
    • Transit corridors
    • Pedestrian “paths”
    • Bicycle routes
  – The traveled way
    • Thoroughfares
    • The wayside
  – Intersections
  – Amenities

• Recommendations?

Thoroughfares & CSS Multimodal Guidelines

• Multi-purpose - serve many needs:
  – commuting, shopping, tourism & social trips.
• Context sensitive - compatible with the surrounding environment.
• Regional coordination - involves local stakeholders.
• Economic sustainability - contributes to economic vitality.
• Roadway footprint - appropriate width & cross-section.
• Multimodal – multiple, efficient & reliable transportation services.
Hillsborough Street Network

- 1-6: Roundabout
- Projects & Phasing

Hillsborough Street Multimodal Evaluation

- Successful Place?
  - Access & linkages?
  - Comfort & images?
  - Uses & activities?
  - Sociability?
- Successful multimodal options?
  - The network
  - Corridors
    1. Pedestrians
    2. Bicyclists
    3. Bus patrons
    4. Motorists & Parking
    5. Emergency vehicles
    6. Delivery trucks
  - The traveled ways
    • Thoroughfares
    • The wayside
  - Intersections
  - Amenities
- Recommendations?
Pedestrians

• Goal:
  – Establish a “multimodal equilibrium” among transit, cars, pedestrians & bicycles.
• CSS multimodal approach:
  – Alter the street to make transit, pedestrian & bicycle use more efficient & convenient & less so for automobiles using traffic calming strategies.
  – Implement more/less parking depending on context.
  – Accommodate emergency vehicles & delivery trucks.
  – Attend to the details of traveled way & roadside amenities.

Motorists, Bus Patrons, Bicyclists, Emergency Vehicles, & Delivery Trucks

Horne St Before/After the Roundabout

Horne St Roundabout
The Wrightsville Beach US74/76 Gateway

- Successful Place?
  - Access & linkages?
  - Comfort & images?
  - Uses & activities?
  - Sociability?
- Successful multimodal options?
  - Network
  - Corridors
    - Vehicle corridors
    - Transit corridors
    - Pedestrian “paths”
    - Bicycle routes
  - Traveled way
    - Thoroughfares
    - The wayside
  - Intersections
  - Amenities
- Recommendations?

Journal Entry

- Briefly answer the previous Gateway questions in your journal.
- Briefly explain how you will incorporate elements of Place and Multimodal Options in your design project.
Sources

- Project for Public Spaces: www.pps.org/topics/
- www.contextsensitivesolutions.org/content/topics/css_design/
  transportation-modes/ . . . transit, bicycles, pedestrians