Break out Group Session Notes

Network – A New CNU Transportation Initiative

April 5, 2008
Defining the Network: What are the key characteristics and elements of a transportation network that advances the goals of new urbanism?

Participants:

Stephen Marshall, Phil Erickson, Noah Raford, Rick A. Hall, PE, Andrew Gast-Bray, Chris Stapleton, and others
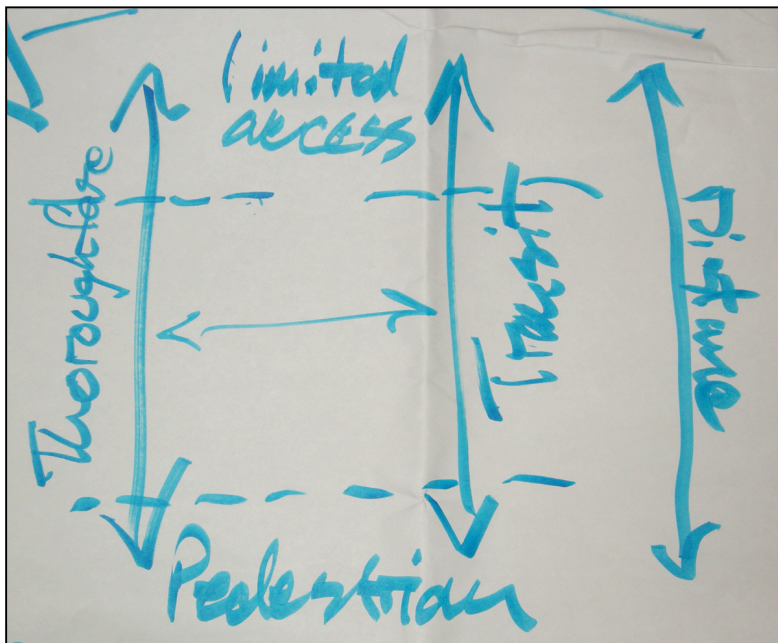
Defining "Network" Elements

Key terms for discussing Network:

- Continuous
- Connected/linked
- Spaced Elements
- Structural component of movement or exchange

Key elements of the Network:

- Thoroughfare Types
- Network Typology
- Multimodal Elements
    - Autos
    - Truck Freight
    - Transit (various types)
    - Rail Freight
    - Bicycle
    - Pedestrian

Scaling Multimodal Elements of the Network –thoroughfares within the mid-range scale of the network have a range in modal priority from auto-priority to transit-priority with a broad range of multi-modal priorities depending upon network function and context.

Defining the Network: What are the key characteristics and elements of a transportation network that advances the goals of new urbanism?
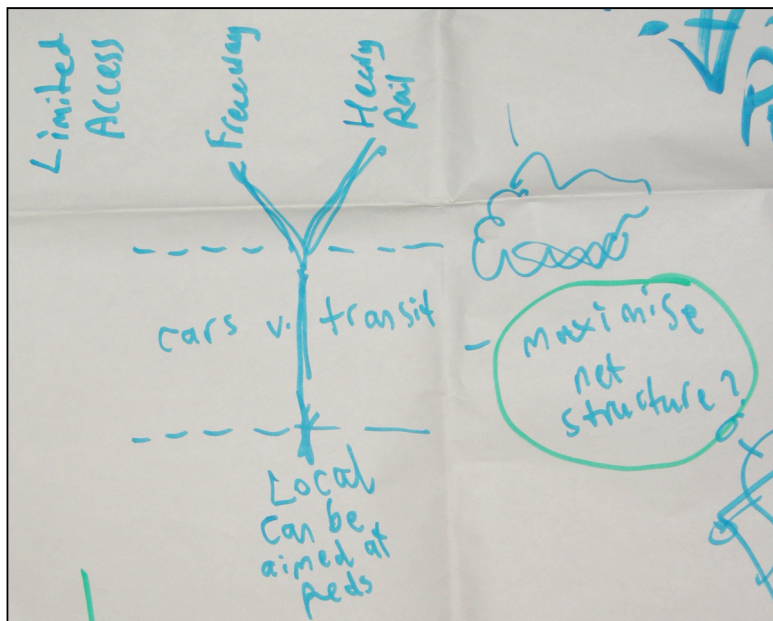

Scaling Network Elements of the Network

- Multifunctional Elements
    - Moving people
    - Moving goods
    - Moving services
- Context (Place)
    - Transect: do we use it? Yes, as an overarching organizing method for the New Urbanism, but it may need to be layered with other terms depending upon scale at which the Network is being discussed:
    - Scale
        - Region
        - City
        - Village
        - Neighborhood
    - Center Types?

Defining the Network: What are the key characteristics and elements of a transportation network that advances the goals of new urbanism?

Coding for Network Form
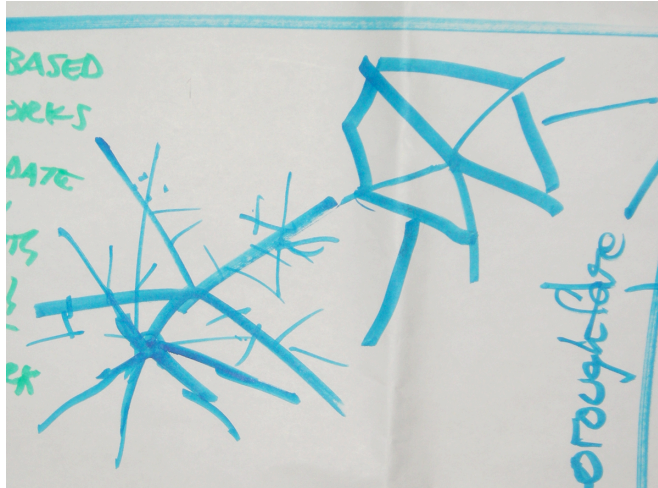
On the left is an 'organic' regional network that is collection of linked community & neighborhood scaled networks to the right is a 'hierarchical' regional network

Rule set that:
1. Supports current use, scale & mode, place <u>first</u>, <u>and</u>
   - Placemaking Priority
   - Pedestrian Dominant

2. Allows for incremental change over time
   - Anticipates
   - Adaptable
   - Supports
   - Both additions to the network and 'devolving' portions of the network (i.e.; refocusing resources and investment)

3. Results in a long term macro-scale structure
   - Emergence of complex network

4. Guides and informs design of individual transportation facilities

Defining the Network: What are the key characteristics and elements of a transportation network that advances the goals of new urbanism?

Defining "Network" Function
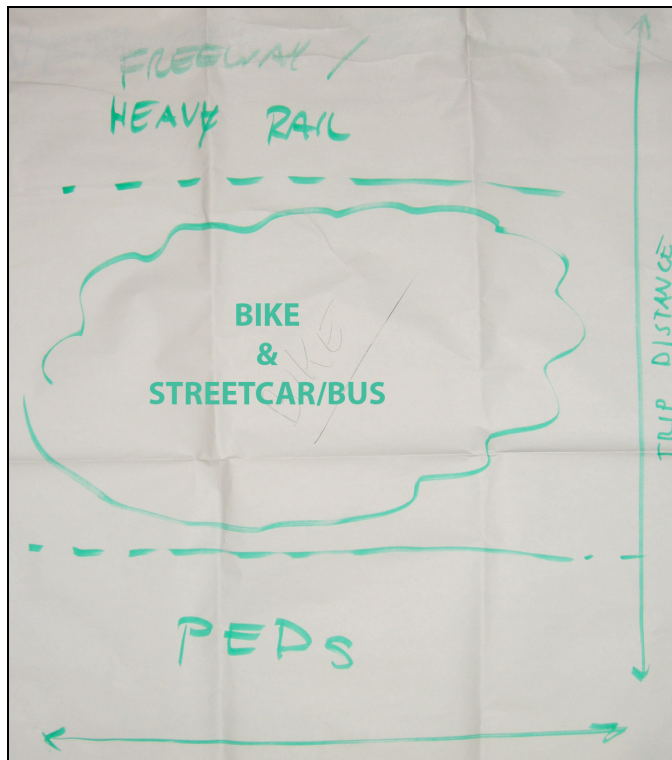
Trip Distance and Non-Motor Mode Choice
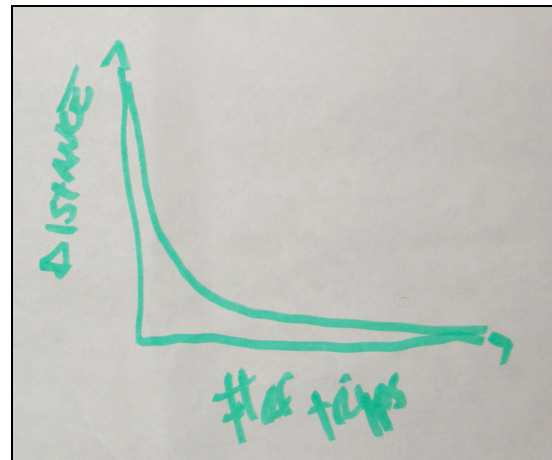
*Number of Trips per Distance Traveled*

Serving range of trip lengths and relationship to mode choice (i.e.; short trips more likely to be walk or bicycle).

Defining the Network: What are the key characteristics and elements of a transportation network that advances the goals of new urbanism?
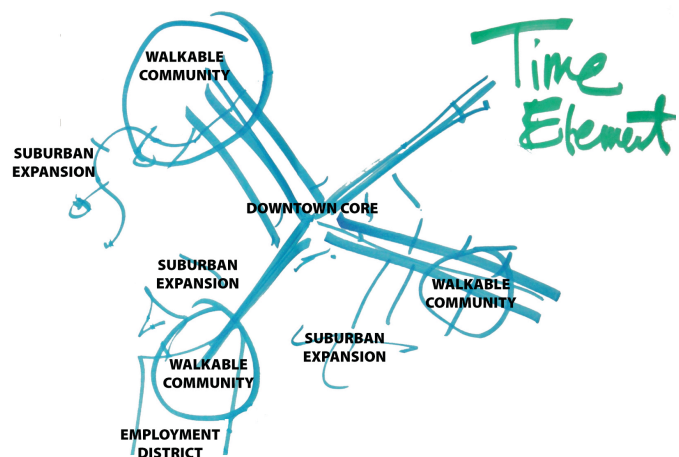
<u>Evolution of a Regional Network</u>

Initial Development of Region
Walkable communities and employment district linked to Downtown Core with multi-modal corridors.
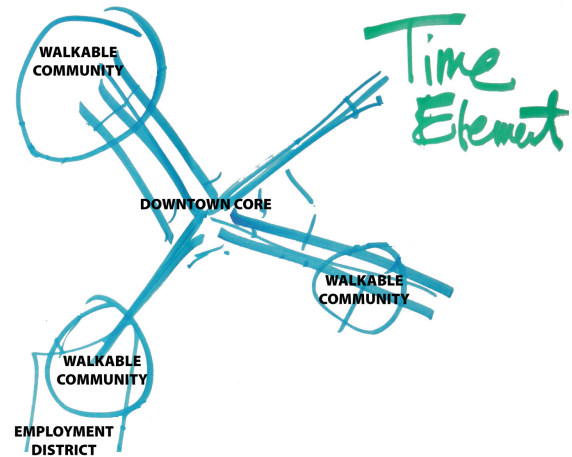
Suburban Expansion of Region
Auto-dominated suburban expansion occurs.

Multi-modal Network and Walkable Community Infill of Region
Development of new Multi-modal links in the Network and new walkable mixed use communities which also create opportunities for modal-choice in the suburban areas.