

# Multimodal Transportation Planning Best Practices



# NCTR/FDOT Research Project Objectives

## Model Multimodal Transportation Element:

- **DEFINE** requirements of the 2011 Community Planning Act.
- **DOCUMENT** professionally accepted multimodal planning best practices.
- **CLARIFY** how to coordinate the local transportation element with other elements and other plans.

# 2011 Community Planning Act

“...plan for a multimodal transportation system that places emphasis on public transportation systems, where feasible.”

-Chapter 163, F.S.





# 2011 Community Planning Act

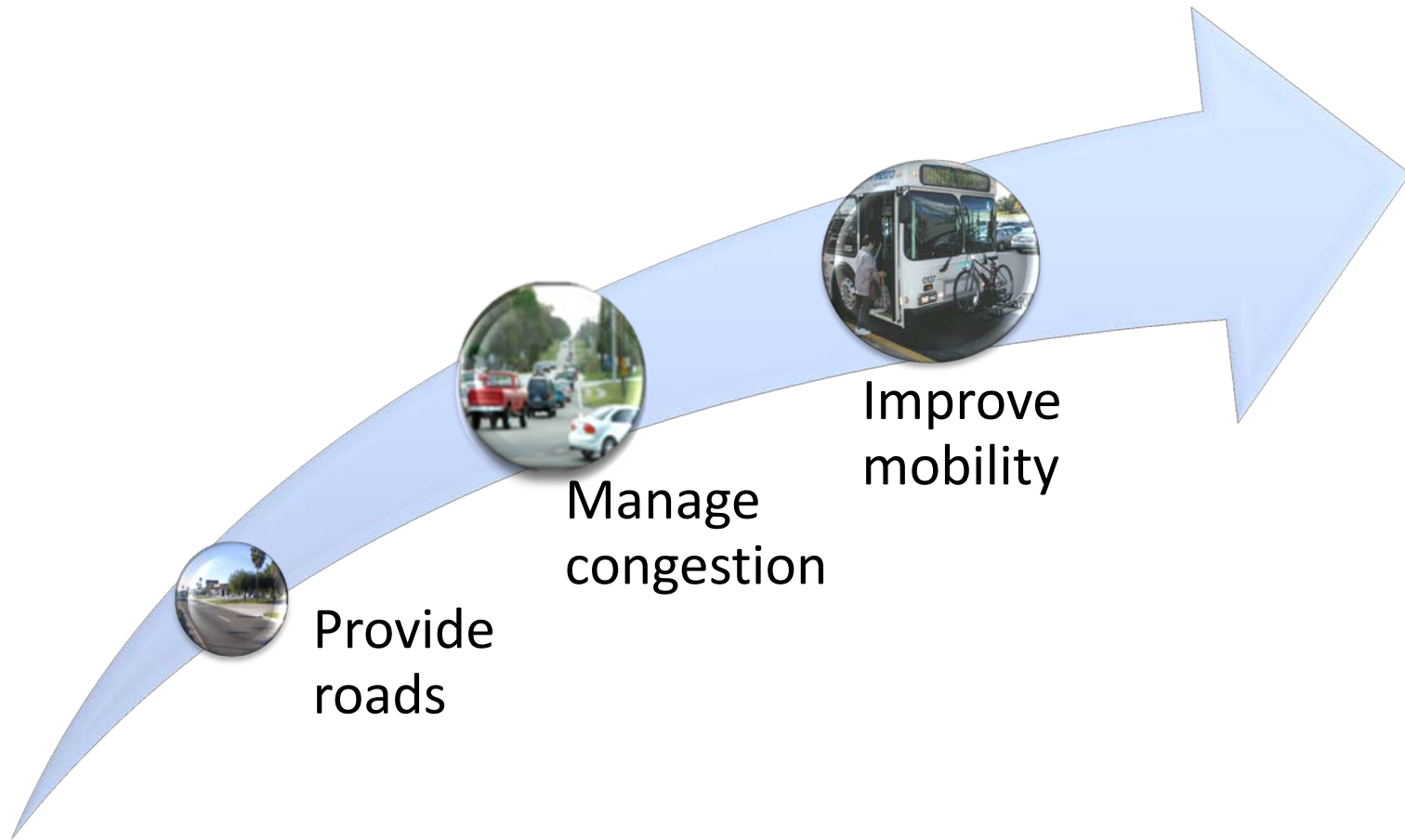
“The element shall provide for a *safe, convenient multimodal* transportation system,

- coordinated with the *future land use map* or map series, and designed to support all elements of the comprehensive plan.”

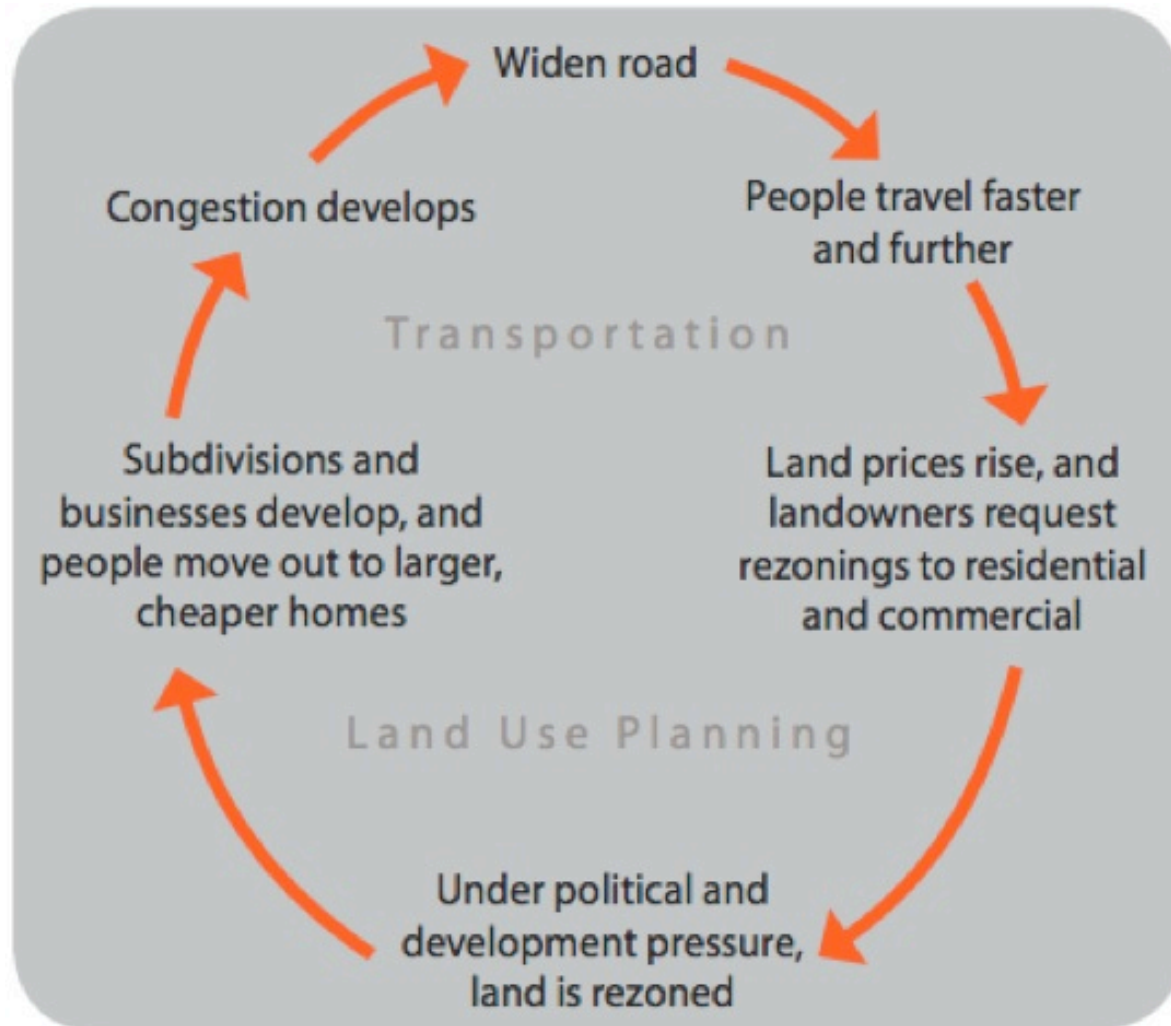
- §163.3177(6)(b) F.S.



# Florida Trends and Requirements



# The Sprawl Cycle



“On urban  
commuter  
expressways,  
peak-hour  
traffic  
congestion  
rises to meet  
maximum  
capacity.”

Anthony Downs. “The law of peak-hour express-way  
congestion.” *Traffic Quarterly* , 1962, Vol 16, No 3.

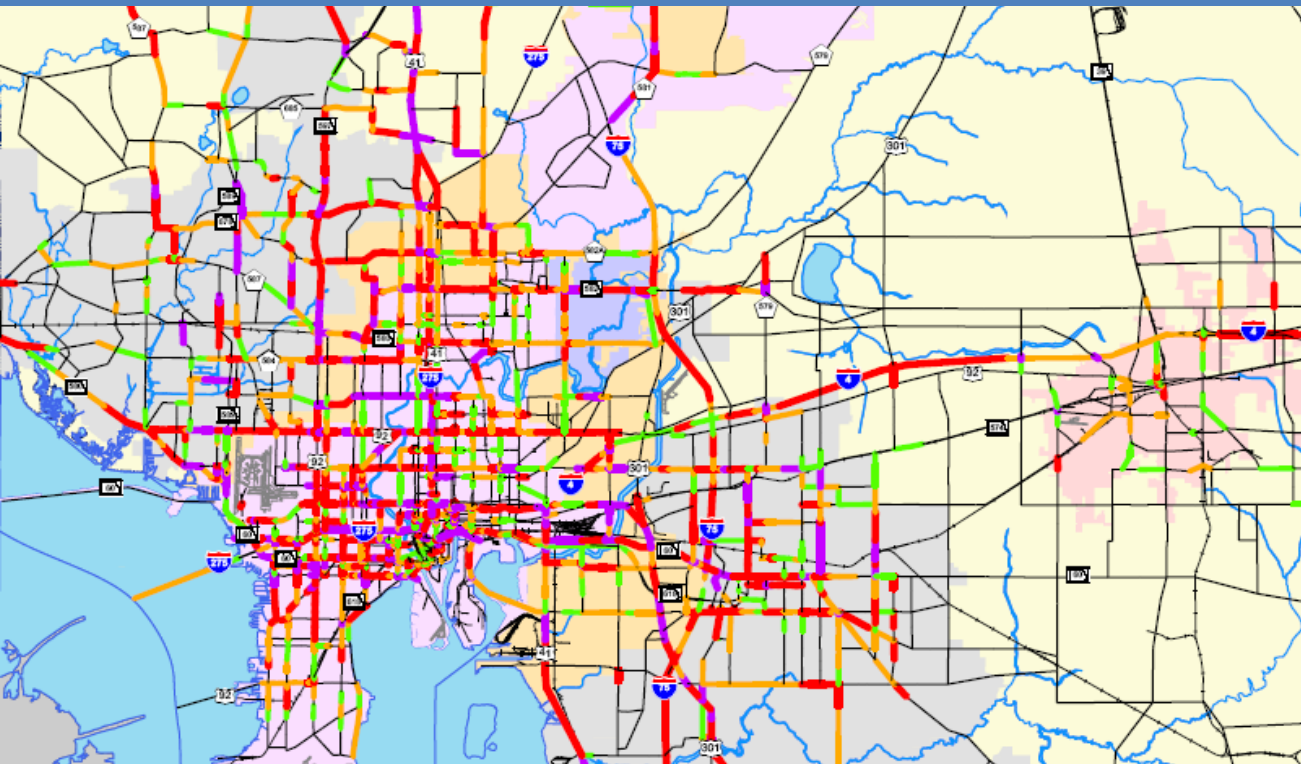








# This is not the future we want...



## Still-Congested Roads 2035

### Volume to Capacity Ratio



Photo courtesy of seefloridago.com

Source: Hillsborough County MPO

# Think mobility versus capacity

- Look beyond level of service
- Priority on expanding mode choice
- Lower priority on preventing future congestion



Photos courtesy of seefloridago.com





# Target walkability investments

- Focus on those areas with the greatest potential and prioritize the pedestrian in those areas
- Improve other areas as opportunities arise





# Leverage bicycling as transportation

- Prioritize links to key destinations and maintain continuity
- Biking to buses is an important part of a multimodal trip
- Provide supporting facilities, including parking



# Make transit viable

- Focus quality transit on key corridors
- Density, TOD
- Link walkable centers



# Integrate Future Land Use

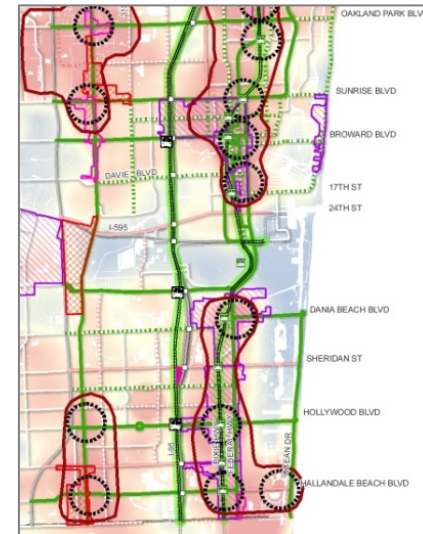
- Include a map series relating the transportation and land use elements



Facility Types and Generalized Future Land Use Vision



Facility Types and Place Types



Aspirational Future Scenario

## Facility Types

- SIS Road Corridor
- SIS Rail Corridor
- Primary Commerce
- Commerce
- Primary Multimodal
- Multimodal
- SIS Connectors

## Generalized Future Land Use

- Residential
- Commercial
- Industrial
- Mixed
- Other



Tri Rail



FEC Rail

## Place Types

- District
- District
- Nodes
- Center
- Airport
- Seaport



Multimodal Nodes



Multimodal District



LAC



RAC



TOD

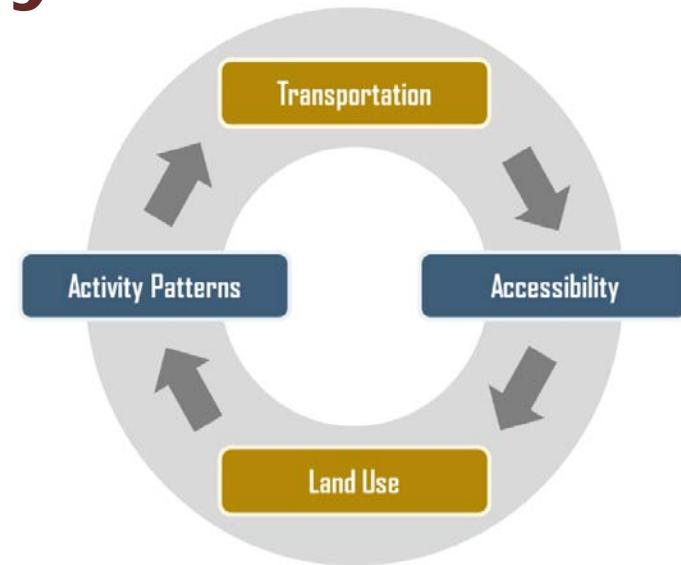


Transit Oriented Corridor



# Land Use & Accessibility Best Practices

- Promote a mix of land uses in centers
- Focus major generators:
  - in urban cores
  - in district centers
  - near major public transportation stops
- Locate day-to-day facilities in local centers so they are accessible by walking and cycling
- Accommodate housing in existing urban areas
- Put retail and entertainment in the urban core first, then edge of core, then fringe



# Address the Multimodal Environment



Urban-Advantage.com

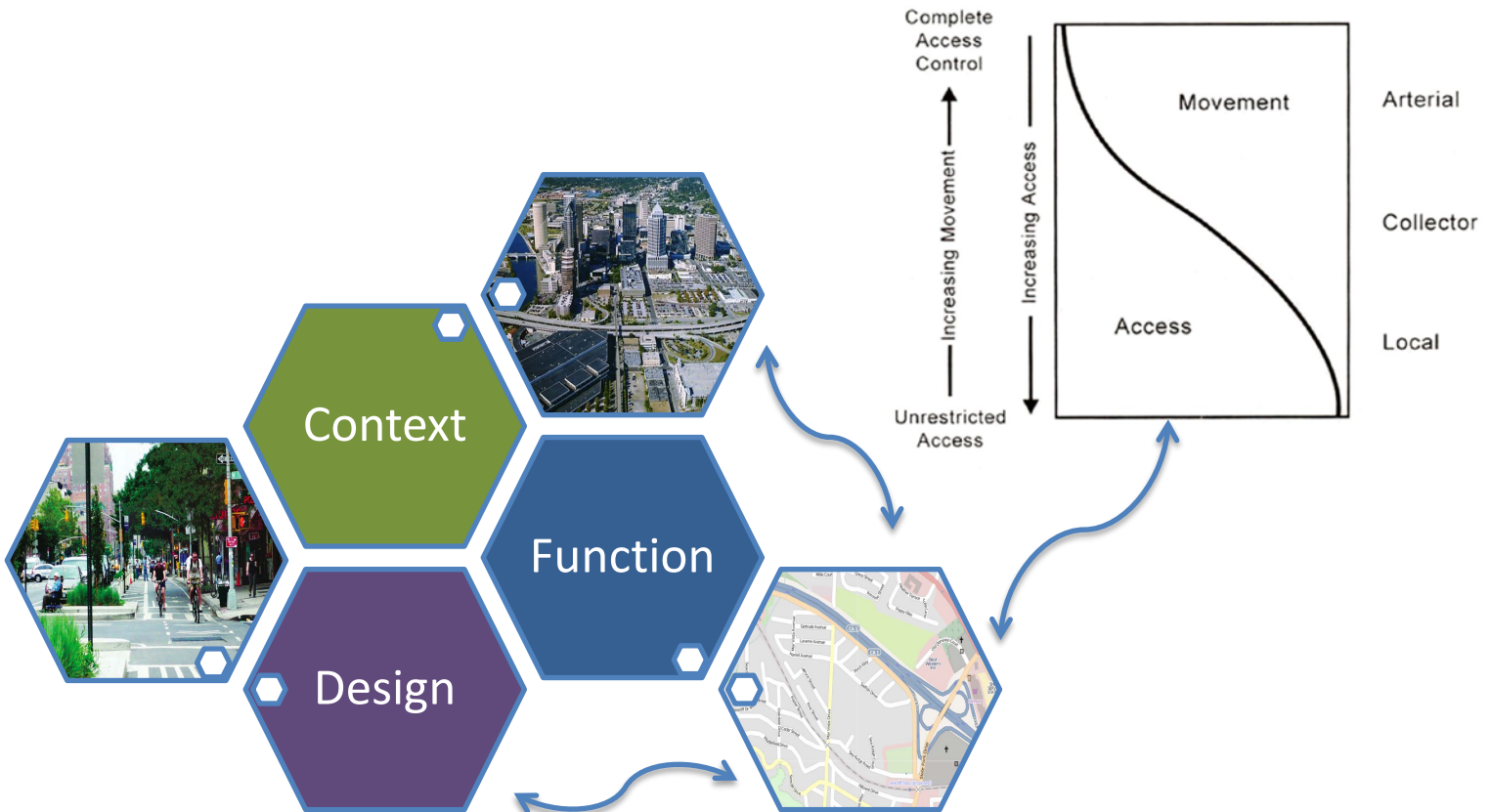


# Importance of Parking Management



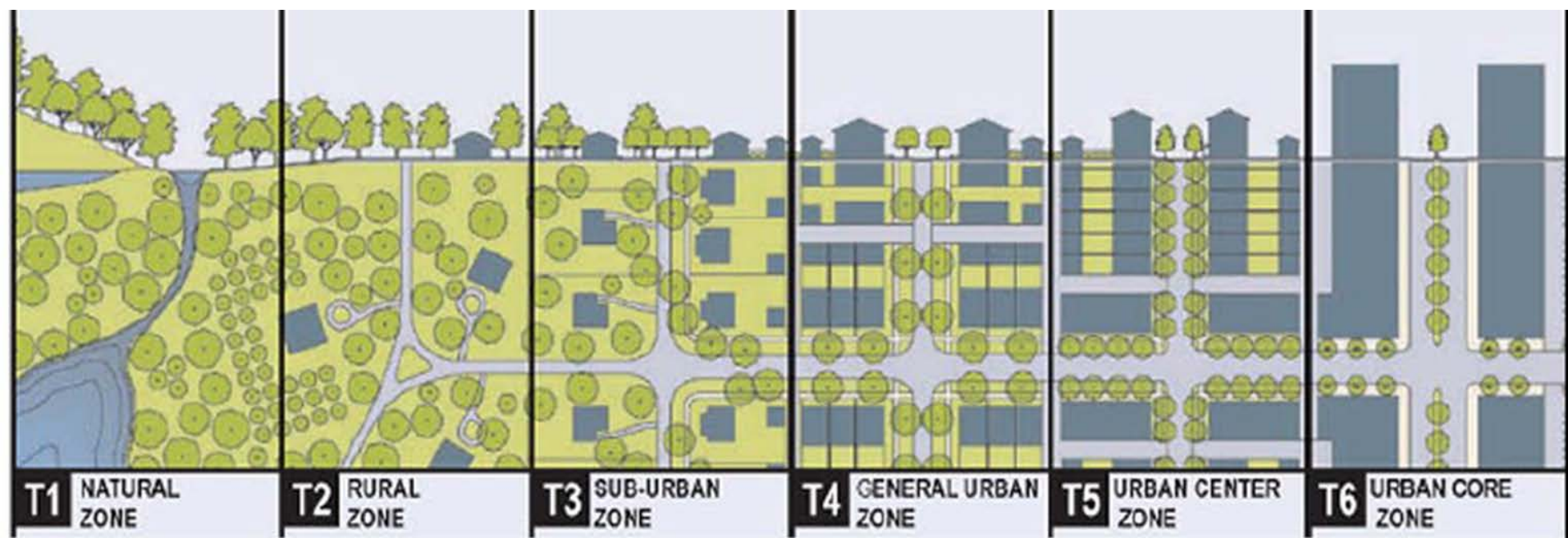


# Roadway Functional Classification



# Consider Context

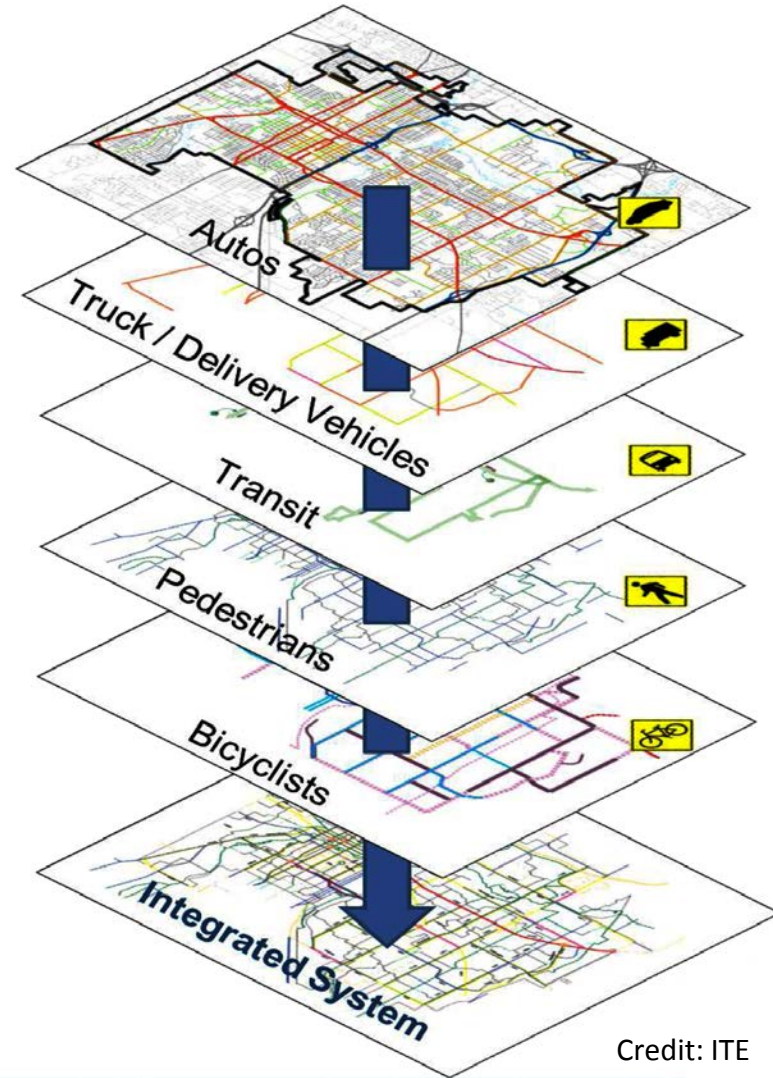
- Street design varies by land use context



Source: Duany Plater-Zyberk, A Typical Rural – Urban Transect



# Priority Routes by Mode



Credit: ITE



# Complete Streets Policies & Guidelines



Credit: Michele Weisbart

Source: Broward County Complete Streets Guidelines

**Complete  
Streets=**

- Bicycle
- Pedestrian
- Vehicle
- Transit
- Appropriate Land Use mix

See page 227, Appendix G of your Model Element

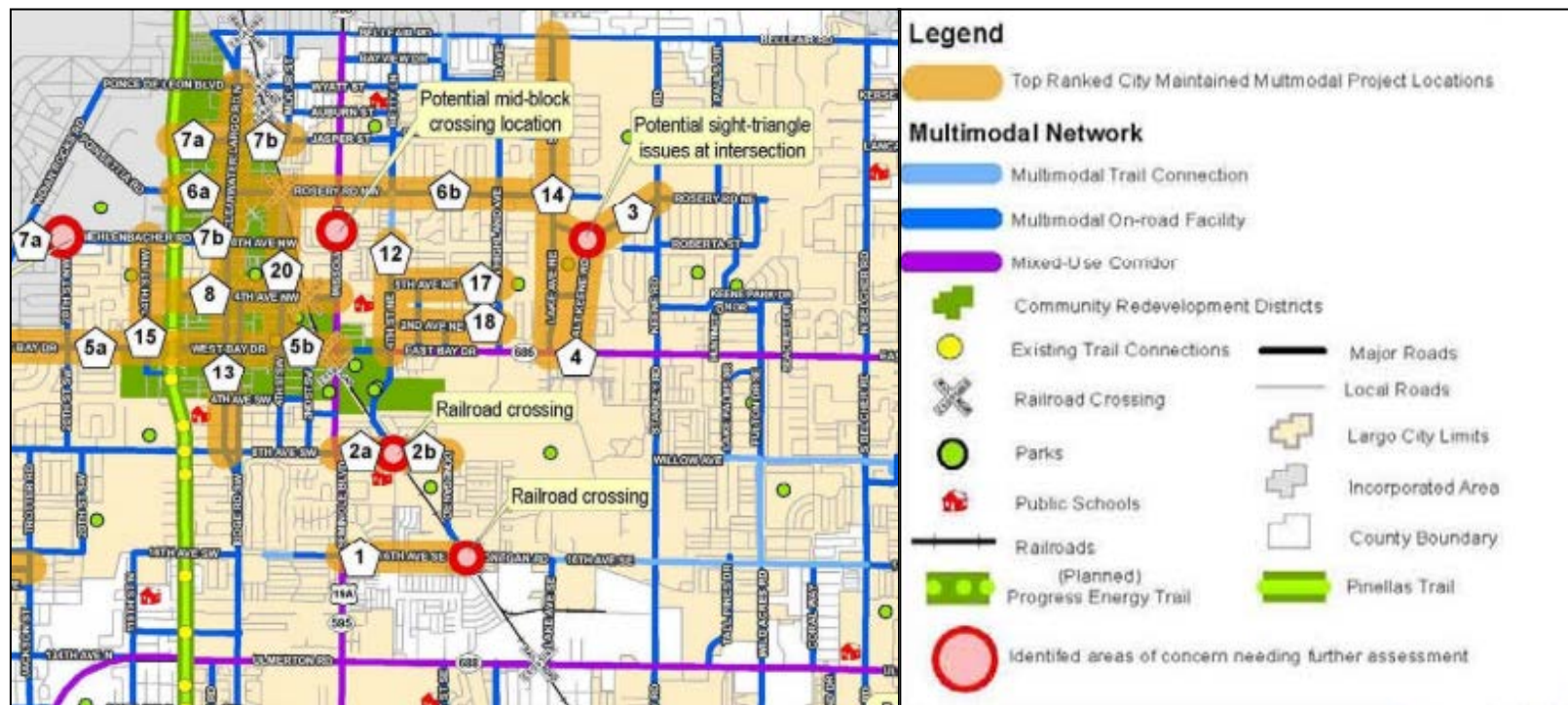
# Set Future Q/LOS Standards, Performance Measures, and Benchmarks



# Prioritize Projects and Strategies

- Level of Service
- Pedestrian Needs
- Community Resource Connectivity
- Transit Connectivity
- Bicycle Needs
- Safety
- Public Support
- Supports Local Plans

## Identified Top Ranked City Projects



Source: City of Largo Multimodal Plan





**Please let us  
know if you  
use the model  
element.**

**Thank you!**

**Kristine Williams**  
[kwilliams@cutr.usf.edu](mailto:kwilliams@cutr.usf.edu)  
813-974-9807