

#### Mobility in the Megaregion

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- I. Introduction: Theoretical Planning Frame for 21st-century Urbanization
- II. Megaregions: Crossing the Border
- III. Infrastructure Planning: Challenges and Opportunities
- IV. Transportation Planning: A Functional Approach
- V. Case Study: The Piedmont Atlantic Transport Network
- VI. The Competitive Advantage
- VII. Conclusions

### Theoretical Planning Frame for 21st-century Urbanization

- Megacities
- Megaregions
- Spatial planning
- Infrastructure
- Longer range planning

Infrastructure planning is a national priority and a lever to enhance growth.

America's infrastructure inadequate for the 21st century with limited technological and modal integration.

Increased competitiveness in the global economy engendered through state of the art infrastructure that is:

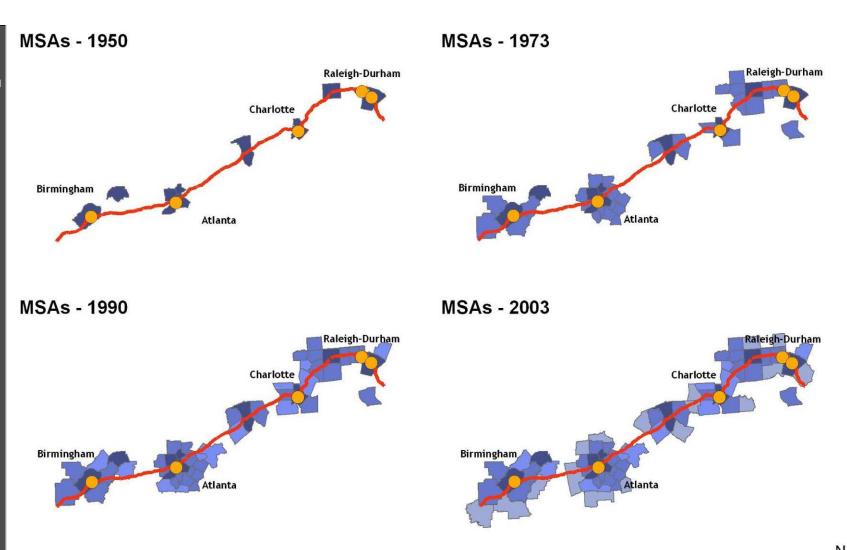
- efficient and consists of different technologies,
- with different cost structures
- serving different trip purposes and different travelers

#### **Continuing Challenges**

- general deteriorated state of infrastructure
- inadequate transit
- climate change
- congestion
- insufficient rail freight capacity
- unsafe bridges and dams
- creating unhealthy places
- creating unattractive places

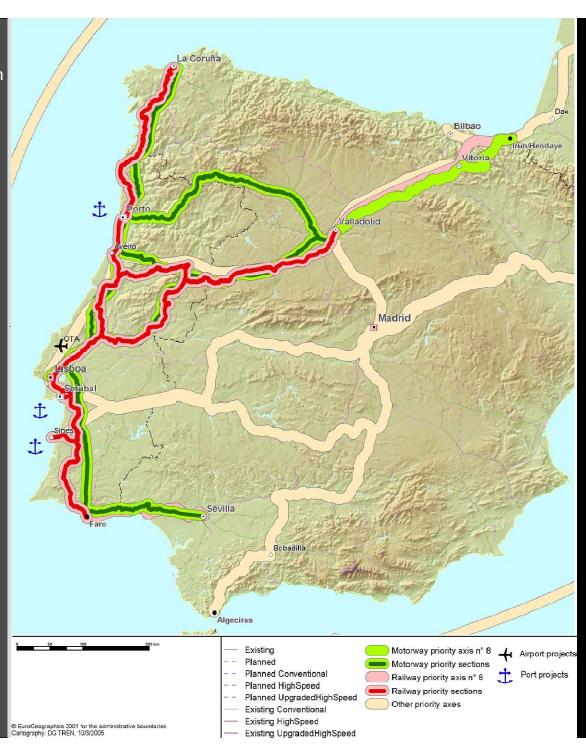
#### Crossing the Border

- From Sidewalks to Jet Ports: making investment decisions considering the impacts locally and at the multi-state level
- Connecting MSAs and all parts to multiple spaces
- Connecting depressed areas to economically viable ones
- Infrastructure must support megaregion economic specialization with specialized infrastructure (reducing competition among megaregions and positioning them globally)



How people will live and work in the future?

# II. Crossing the Border



The European Union Response

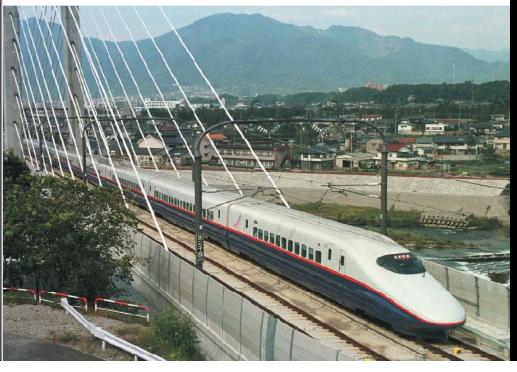
SOURCE: European Commission, C:\Documents and Settings\kl123\Local Settings\Temporary Internet Files\OLK160B\Trans-European Networks (2).htm

#### **Challenge and Opportunity**

- Need for long time, focused investment
- New roles for states, local government, regions and the nation
- America trailing other countries in innovative finance and integrated multimodal, multi-level infrastructure planning
- Integrated theoretical account to redevelop the built environment using infrastructure in innovative ways



New road to Beijing Airport



Japan's bullet trains

SOURCE: ULI, Infrastructure 2007

- Integrating equity, economic development, climate change and legal considerations
- Reducing energy consumption
- Increasing public's share of value created through location of transit (enhanced value capture)
- Examining legal challenges to megaregions
  - Arguments against megaregions (compact clause)
  - Informal and formal arrangements for multistate infrastructure development
- Multi-state MPO's

#### **Already Planning Across Borders**

MSAs	States	2000 Population	Multi- State	Megaregion
Chattanooga	TN, GA	465,161	Yes	РАМ
Cincinnati-Hamilton	OH, KY, IN	1,979,202	Yes	Great Lakes
Columbus	GA, AL	274,624	Yes	PAM
Davenport-Moline-Rock Island	IA, IL	359,062	Yes	Great Lakes
Memphis	TN, AR, MS	1,135,614	Yes	PAM
New London-Norwich	CT, RI	293,566		Northeastern
Philadelphia- Wilmington-Atlantic City	PA, NJ, DE, MD	6,188,463	Yes	Northeastern
Portland-Salem	OR, WA	2,265,223	Yes	Cascadia
Washington-Baltimore	DC, MD, VA, WV	7,608,070	Yes	Northeastern

Sources: U.S. Census Bureau, Census 2000 Redistricting Data (P.L. 94–171) Summary File and 1990 Census. http://www.census.gov/population/www/cen2000/phc-t3.htmlRPA; CQGRD

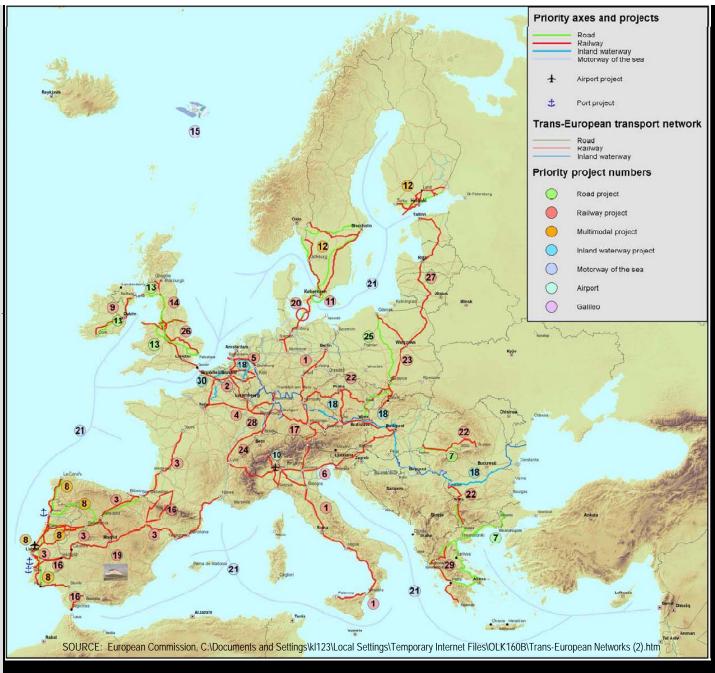
#### A Case Study in Megaregion Mobility Planning

Compare a normative infrastructure planning process with a megaregion approach

NORMATIVE APPROACH: Inventory DOT, MPO, Transit Providers and Regional Development Councils plans for the six-state Piedmont Atlantic Megaregion (PAM)

MEGAREGION APPROACH: Construct PAM network to include freight, passenger transportation, and intermodal operability to address bottlenecks, landside access to airports and ports and high-speed rail, and to relate to economic development initiatives and projected growth centers

# V. Piedmont Atlantic Network



Project prioritization across borders

- Making Places Competitive
- The Role of technology
- Mega projects in Megaregions
- Infrastructure Standards and Evaluation
- Equity Partnerships and Infrastructure
- Lessons from abroad

## A Megaregion Framework: the integration of regional planning, land use planning, population growth to guide infrastructure expenditures at a larger scale

- Need for long-term infrastructure investment
- The changing role of America on the global stage
- Sustainability and energy resources
- Creating infrastructure networks and financing them
- The suburban challenge
- **????**