Exploring Florida's Transportation Future

presented to

Committee for a Study of Future Interstate Highway System

presented by

Brian Watts, Florida DOT





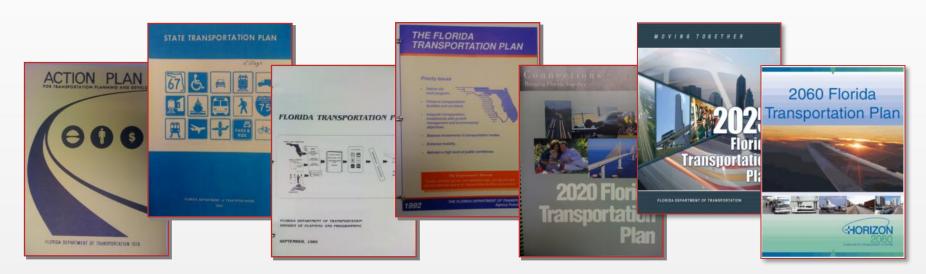
Outline

- Overview of the Florida Transportation Plan
- Scenario Planning in the FTP
 - » Background
 - » Approach
 - » Results



Florida Transportation Plan

- Florida's long-range transportation plan
- A plan for all of Florida
- Defines policy framework and launches key initiatives





Florida's Transportation System



State Highways

12,099 Centerline Miles **6,783** Bridges



Rail

2,753 Railway Miles



Local Roads

107,674 Centerline Miles **5,091** Bridges



Seaports/Waterways

15 Public Seaports3,475 Miles of Intracoastal and Inland Routes



Public Transit

30 Urban Transit Systems23 Rural Transit Systems



Aviation

780 Airports129 Public General Aviation19 Commercial651 Private General Aviation



Bicycle/Pedestrian Network

7,282 Miles of Bicycle Facilities3,286 Miles of Pedestrian Facilities



Spaceports

2 Spaceports10 Launch Facilities



Partner and Public Outreach Process









Regional Forums or Workshops

350
Briefings to
Partner Meetings

15,000
Participants at Events



Long-Range Goals

30 Long-Range Objectives



The Future Can Be Hard to Predict...

Off Track?

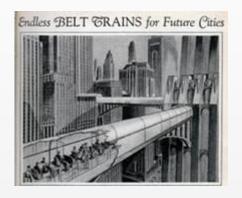
"All intercity travel under 300 miles will be by helicopter."



Eddie Rickenbacker, Chairman, Eastern Air Lines. 1953

Ahead of the Times?

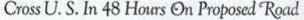
"Mass transit in urban areas is vital to the future of Florida."



Joseph P Taravella, Chair, Council of 100, 1973

Looking Ahead?

"One day you will be in one continental city – driving from Boston to Miami."

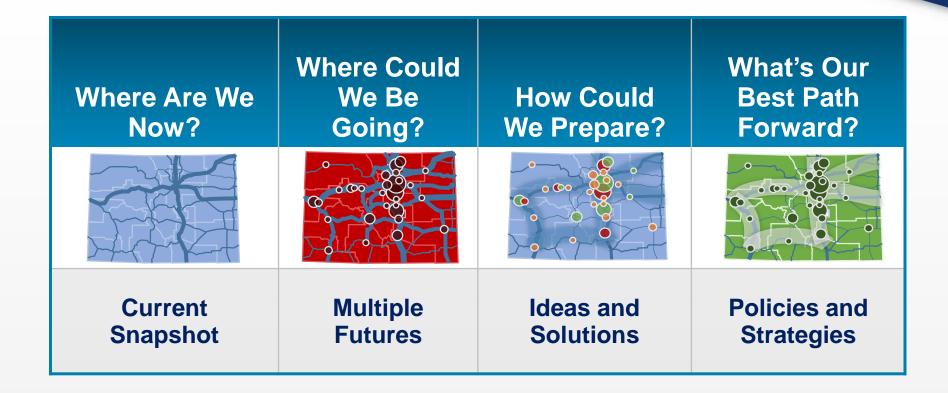




Charles Rovetta, Dean, Florida State School of Business, 1955



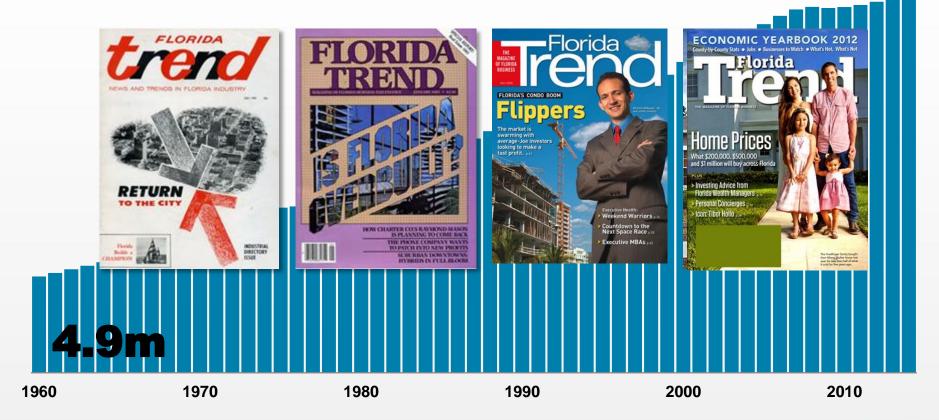
Exploratory Scenarios





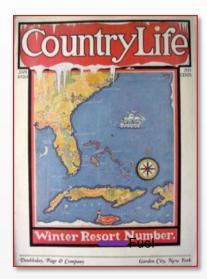
A Look Back Florida's Population



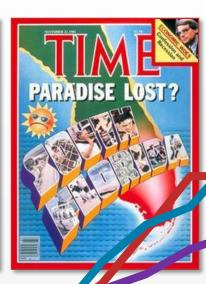




A Look Back Transportation Trends







190.8 billionAnnual Miles

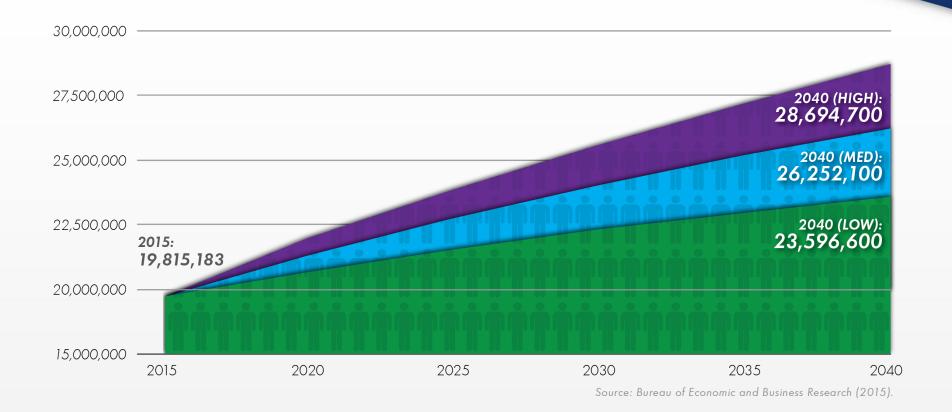
15.6 million vehicles

9.5 million gallons

- Fuel Consumed
- Registered Vehicles
- Vehicle Miles Traveled

915 1920 1925 1930 1935 1940 1947 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 2013

Florida's Population Larger and More Diverse?





Florida's Development Patterns *More Urban?*







Technology What's Next?



Becoming More Connected

Touts vehicles on the road worldwide will have some form of

wireless network connection by 2020

Source: Gartner, Inc., "Predicts 2015: The Internet of Things," (2014).

Becoming More Mobile

90% titititi

of the U.S. population owns a cell phone

20% Thinks use their phone for real time traffic or transit information

Source: Pew Research Center (2014).

Increasing Automation

billion
will be invested in
drone technology
in the next 10 years

Robotics and automation could revolutionize transportation system maintenance and freight delivery practices

Source: U.S. Department of Transportation (2015).

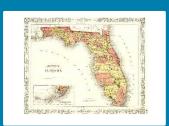


The Approach

Analyze Key Drivers of Change

Describe Alternative Futures









Identify Key Themes Across Futures

Define Goals, Objectives, Strategies









Tomorrowland Innovation Hub







Stormy Weather Risks on the Horizon



Engaging the Public

Statewide Transportation
 Visioning Summit,
 December 17, 2014







Engaging the Public

- Five regional workshops, January-February 2015
- Targeted workshops for key stakeholder groups (MPOAC, FRCA, FPTA, etc.)
- FloridaTransportationCommission
- Steering Committee









Potential Strategies

Global Hub

- Global gateways, intermodal logistics centers
- Trade corridors, intermodal connectors
- Supply chain technologies

Innovation Hub

- Urban mobility options
- High speed connections between urban areas
- Automated, connected, shared vehicles

Rural Rediscovery

- Truck routes, freight terminals, general aviation
- Rural-to-urban connectivity
- Trails, access to recreational areas

Risks on the Horizon

- Catalytic investments to support economic growth
- Asset management and adaptation
- Repurpose or abandon infrastructure

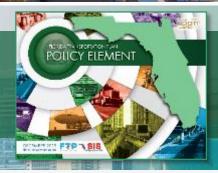


Florida Transportation Plan Structure



Vision Element (August 2015)

Trends, uncertainties, and themes that will shape the future of transportation in Florida (50 years)



Policy Element (December 2015)

Goals and objectives to guide the Florida Department of Transportation and partners toward the vision (25 years)



Implementation Element (2016)

Emphasis areas with key actions (5-25 years)



FTP Vision & Policy Elements





Florida Transportation Plan Goals



Transportation solutions that support Florida's global **Economic Competitiveness**

Agile, Resilient, and Quality transportation infrastructure

Transportation solutions that support

Quality Places

to live, learn, work, and play

Efficient and Reliable Mobility for people and freight

Transportation solutions that enhance Florida's Environment and Conserve Energy

More Transportation Choices for people and freight



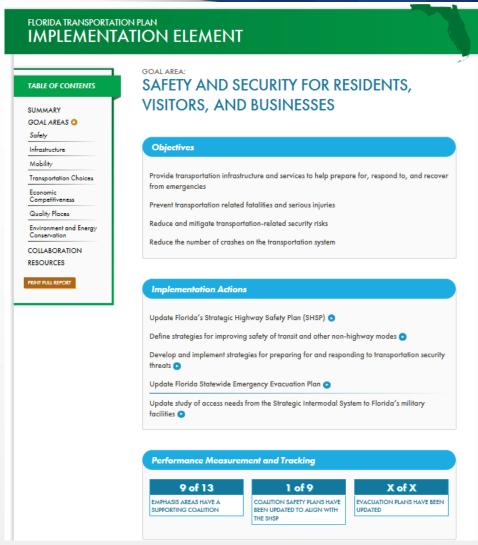
New Emphasis Areas

- Innovation and technology
- Transportation workforce
- "Soft infrastructure" regulatory processes
- Energy
- Public health
- Customer service



FTP Implementation Element

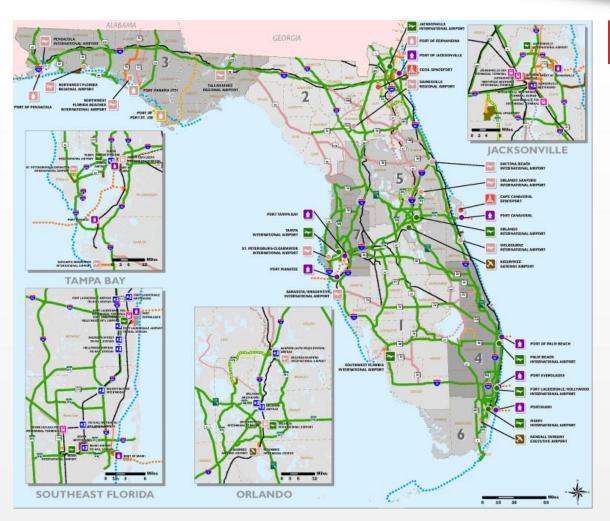
- Real Time Updates
- Partner Input
- One Convenient Location







Strategic Intermodal System (SIS) Statewide System of High-Priority Facilities















Online Resources: www.floridatransportationplan.com



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