



Florida Department of
TRANSPORTATION



Study to Evaluate Express Toll Lanes on Florida's Turnpike

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(1) Work completed while an employee at AECOM

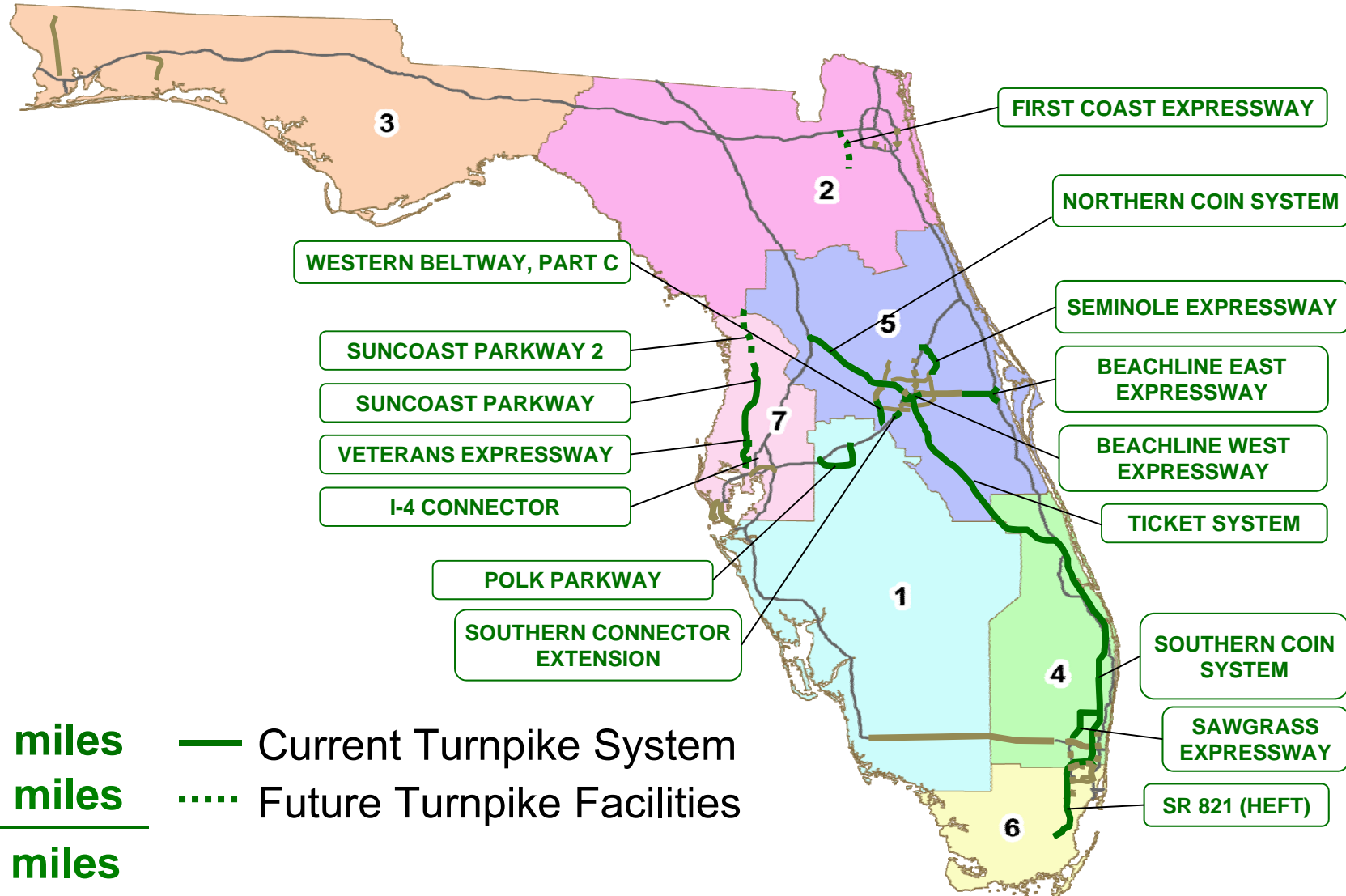
15th International ML Conference • May 4 – 6, 2016 • Miami, Florida

Integrated Congestion Pricing Plan (ICPP)

- Joint Study between FDOT and FHWA
- Initiated in 2011 and Completed in 2015
- Examined Congestion Management Strategies
- Evaluated Express Lanes on Toll Facility
- Focused on Large Urban Areas in Florida



Florida's Turnpike System



483 miles

28 miles

511 miles

— Current Turnpike System

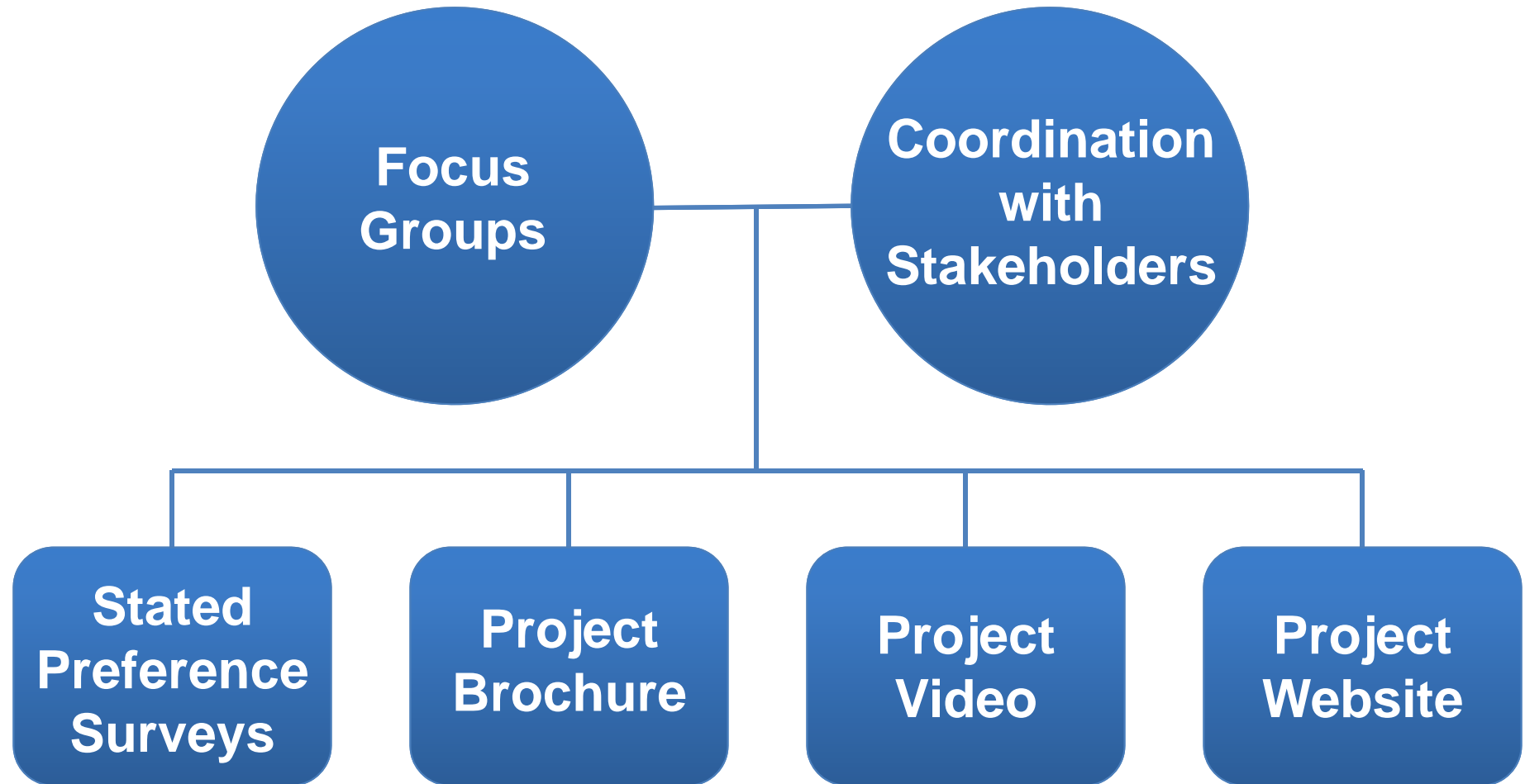
..... Future Turnpike Facilities

Why Express Lanes?

- Provide Travel Choices
- Improve Safety
- Increase Mobility
- Minimize Delay
- Offer Predictable Travel Time
- Maximize Construction Dollars
- Reduce Fuel Consumption



Public Outreach Tools and Strategies



Focus Groups

- 10 Focus Groups Covering 3 Major Areas of the State
- Included Frequent and In-Frequent Users
- Overwhelming Support for Express Lanes
- Preference for 2 Lanes per Direction
- Major Support for Prohibiting Trucks



Stated Preference Surveys

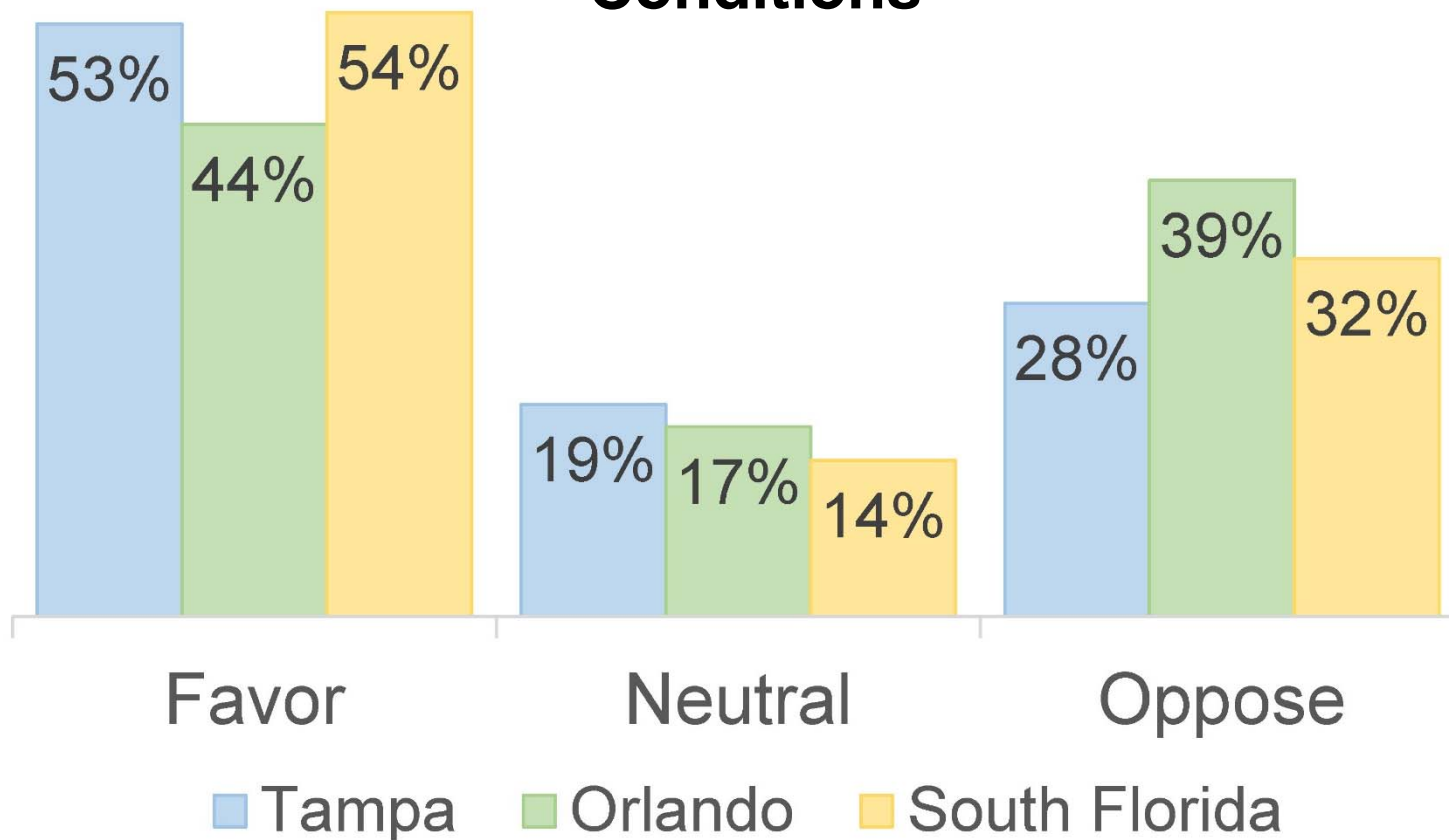
- Computer-Assisted Self-Interview
- 220,000 SunPass[®] Customers
- 28,000 Postcards for Cash Drivers
- 3,000 Total Responses
- Estimate Value of Travel Time Savings



SunPass is a registered trademark of the Florida Department of Transportation

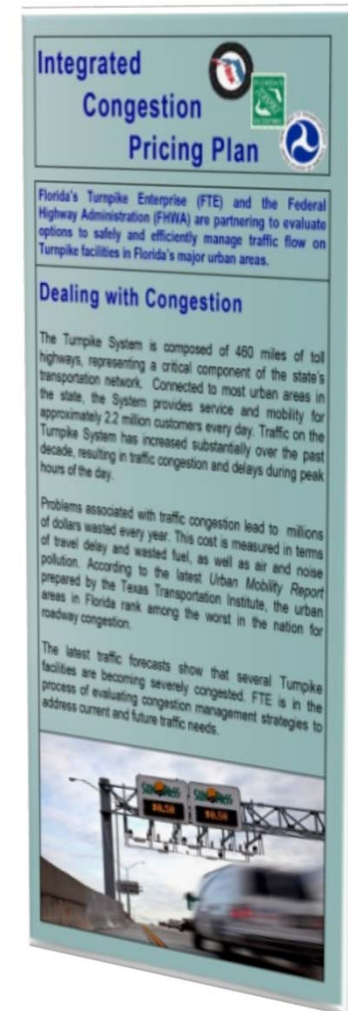
Stated Preference Surveys: Key Results

Willingness to Pay Additional Toll for Better Traffic Conditions



Additional Outreach Efforts

- **Brochure**
 - Identify Congested Urban Areas
 - Describe Benefits of Express Lanes
 - Explain Study Phases and Proposed Projects
- **Video**
 - 10 Minutes Long
 - Explains How Express Lanes Operate
- **Website**
 - <http://www.floridasturnpike.com/icpp>



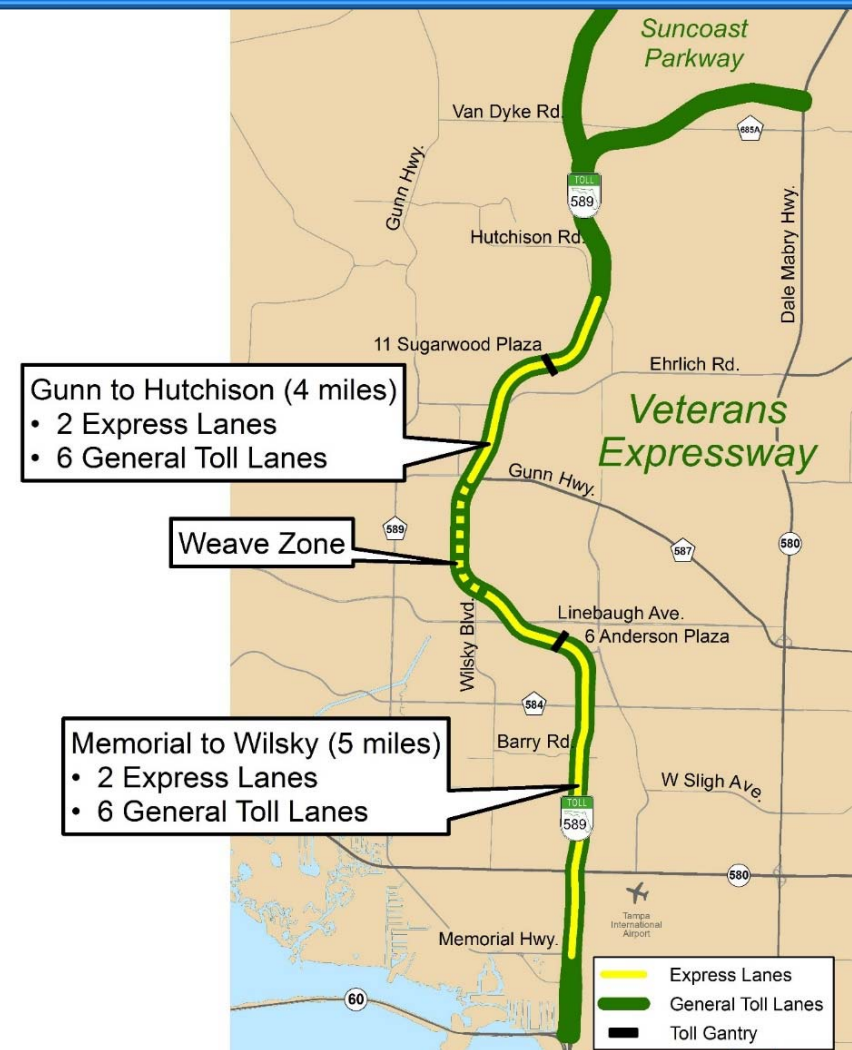
Express Lane Policies for Turnpike System

- Express Lane Segments
- Toll Rates
- Vehicle Eligibility
- Lane Separation
- Signing
- Must Have a Transponder



Veterans Expressway

- Widen from 4 to 8 Lanes
- Include 1 Express Lane per Direction
- 9 Miles of Express Lanes
- Open to Traffic in Phases Starting in Spring 2017



Turnpike/SR 821 (HEFT)

- Add 1 to 2 Express Lanes per Direction
- Open in Sections between 2017 & 2021
- Build Direct Connections

Killian Parkway to I-75 (15 miles)

- 4 Express Lanes
- 6 General Toll Lanes

I-75 to NW 27th (8 miles)

- 2 Express Lanes
- 6 General Toll Lanes

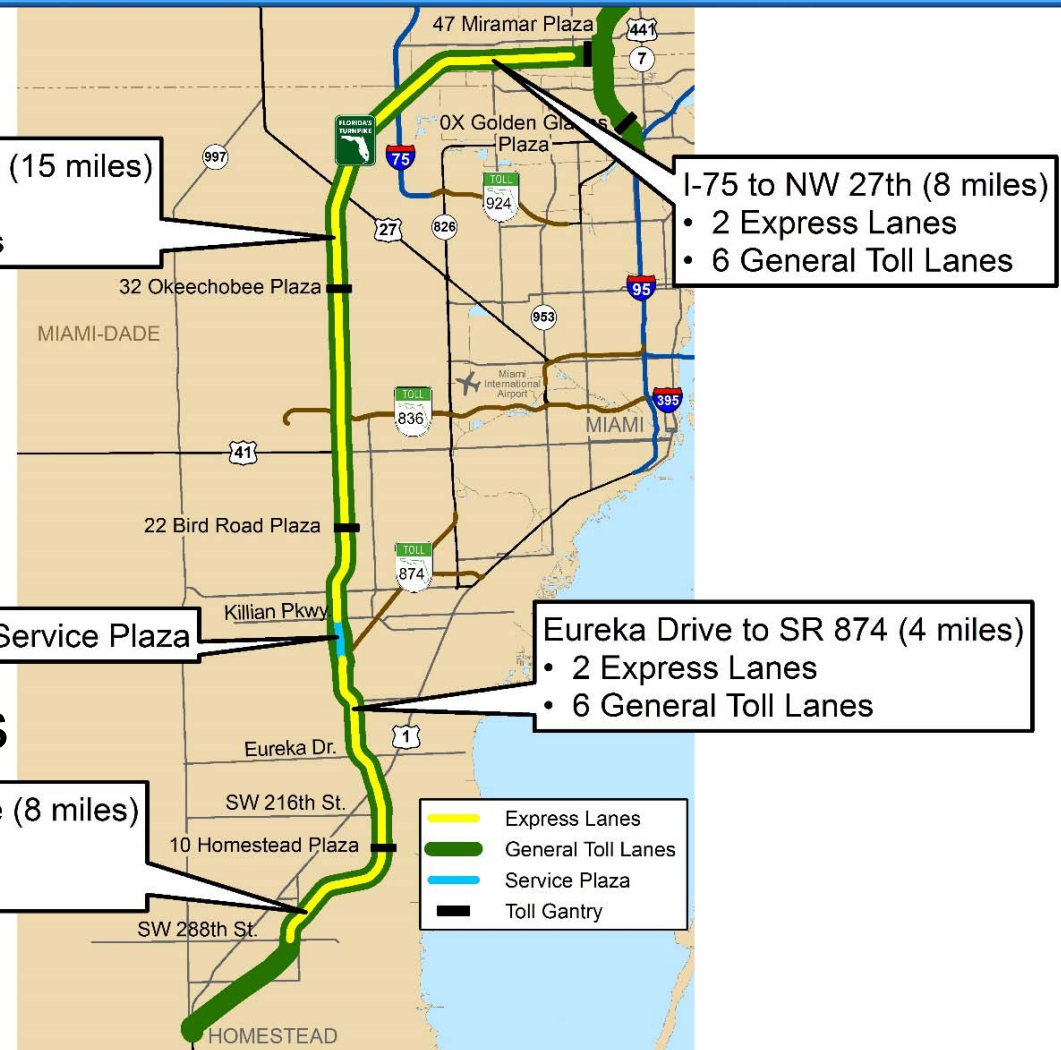
Service Plaza

Eureka Drive to SR 874 (4 miles)

- 2 Express Lanes
- 6 General Toll Lanes

SW 288th St. to Eureka Drive (8 miles)

- 2 Express Lanes
- 4 General Toll Lanes



Beachline West Expressway



- Western Section: 2 Express Lanes per Direction
- Eastern Section: 1 Express Lane per Direction
- Project Opens to Traffic in 2018

Traffic & Revenue Evaluation

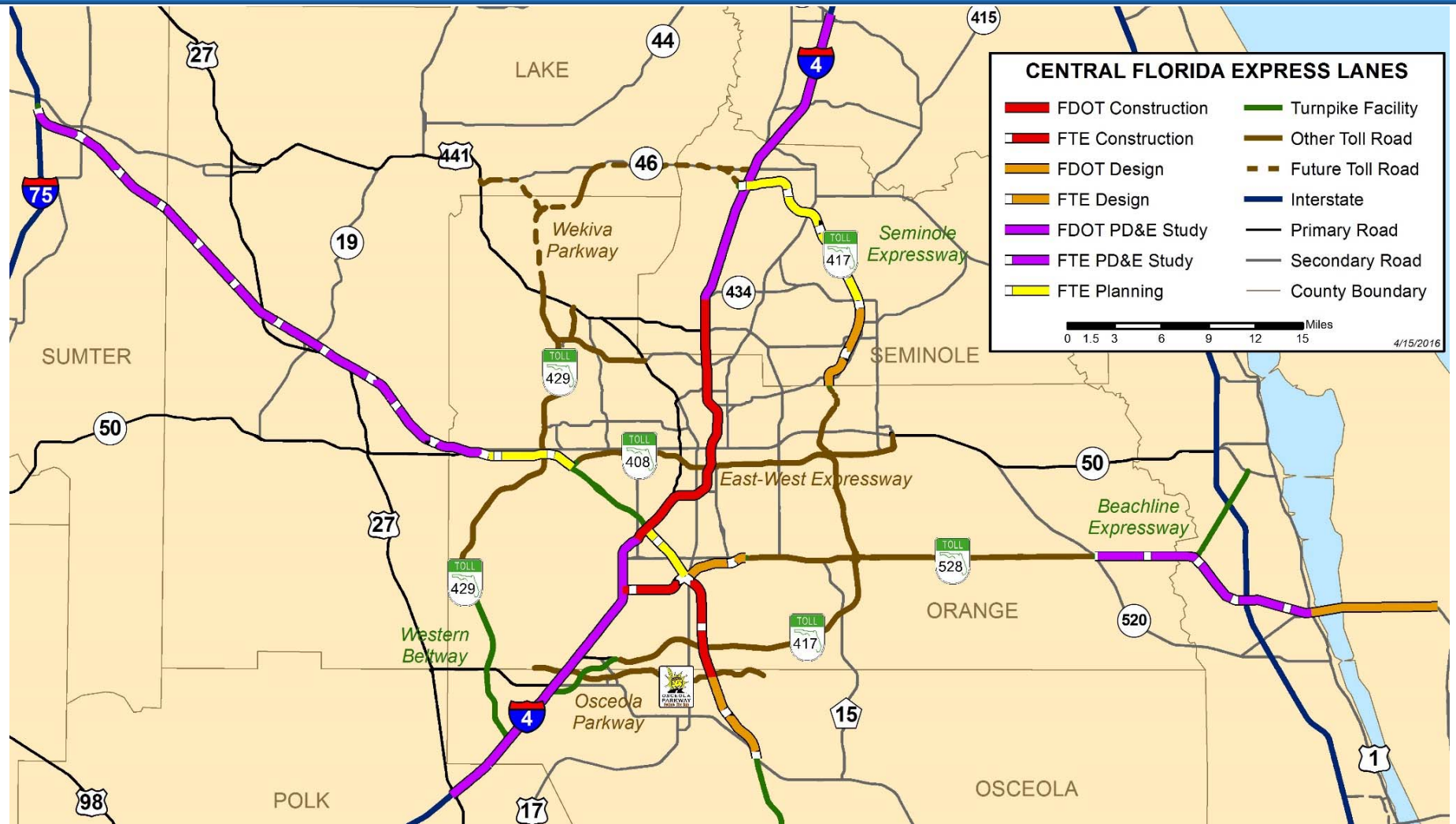
- Travel Demand Model Validation
- Toll Plan and Access Points
- Express Lane Time-of-Day Model to Provide:
 - Traffic and Toll Rates by Hour and by Direction
- Post Model Factors
- Revenue Forecasts



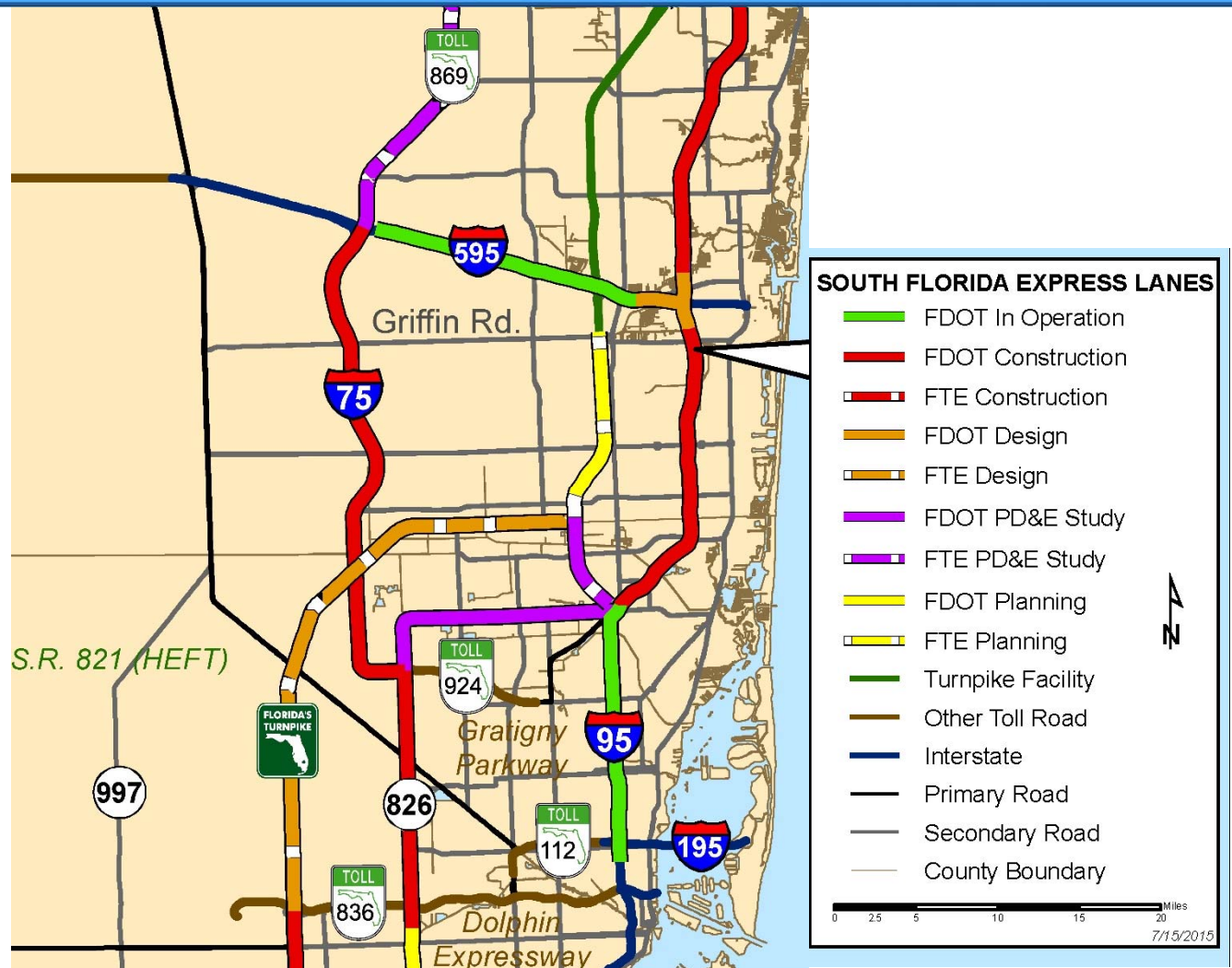
Share of Traffic in Express Lanes

Turnpike Facility	Florida Region	Percent Share	
		Opening Year	2040
Veterans Expressway	West Central	6%	8%
Beachline West	Central	5%	7%
Turnpike/SR 821 (HEFT)	South	8%	12%

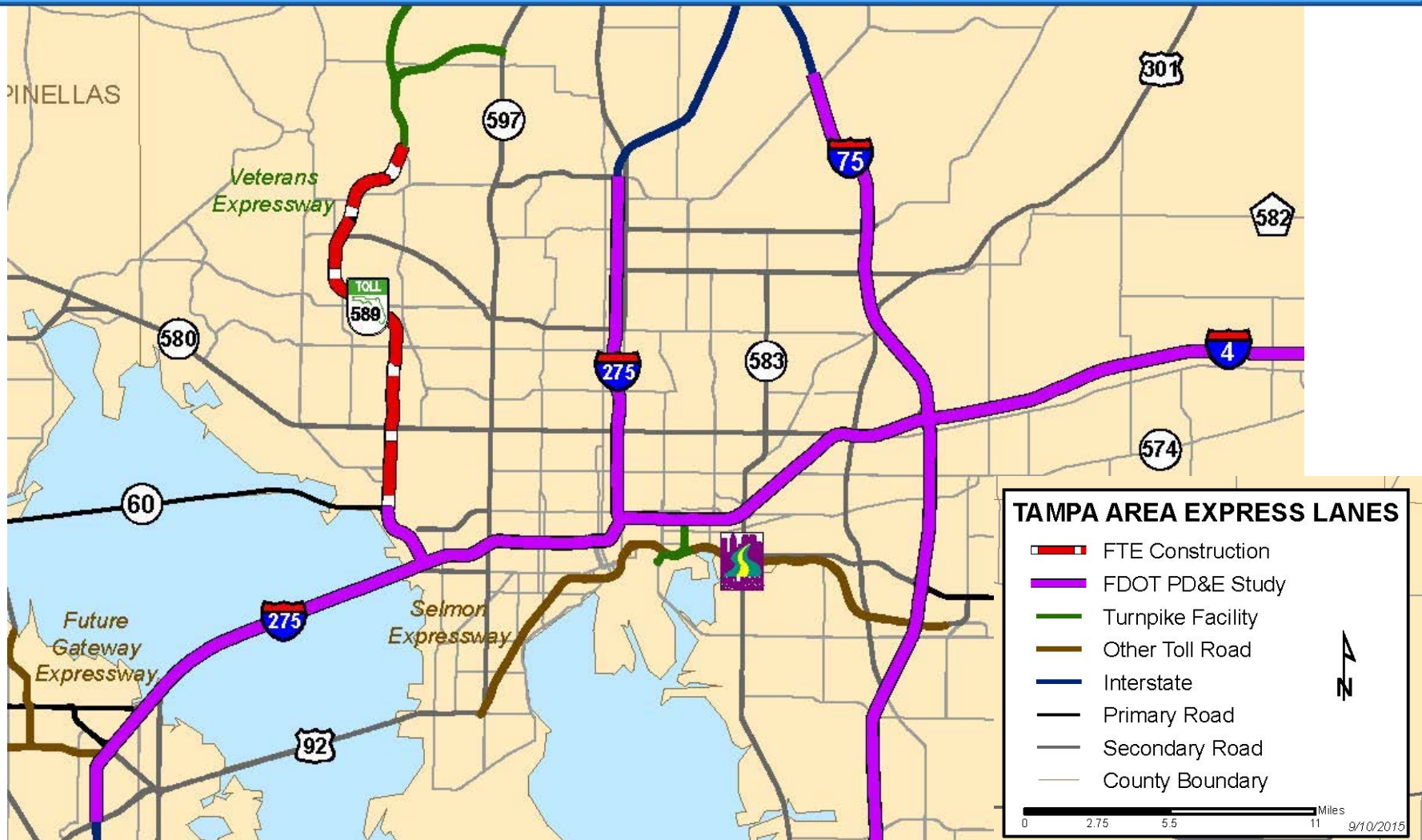
Central Florida Express Lanes Network



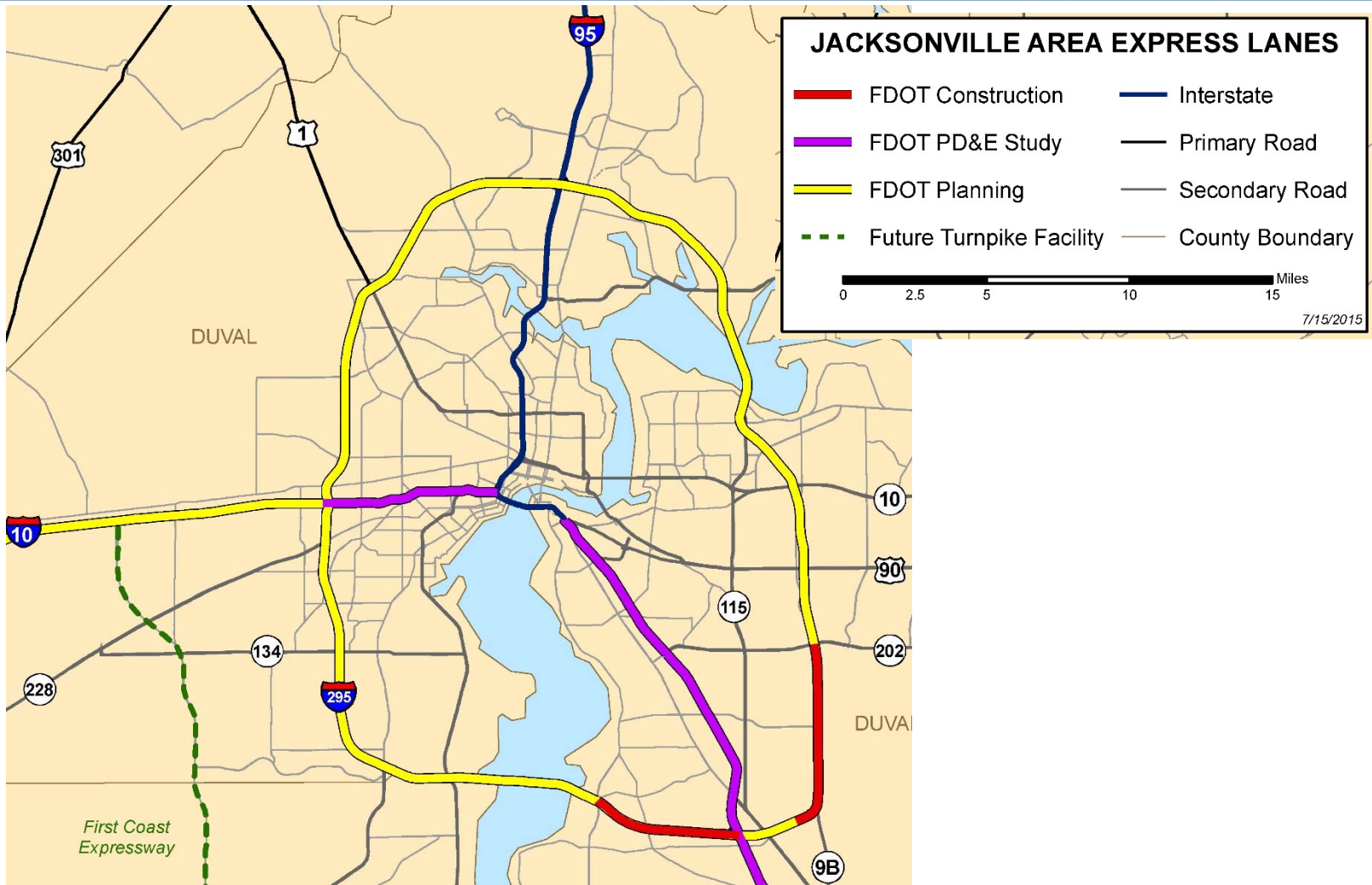
South Florida Express Lanes Network



Tampa Area Express Lanes Network

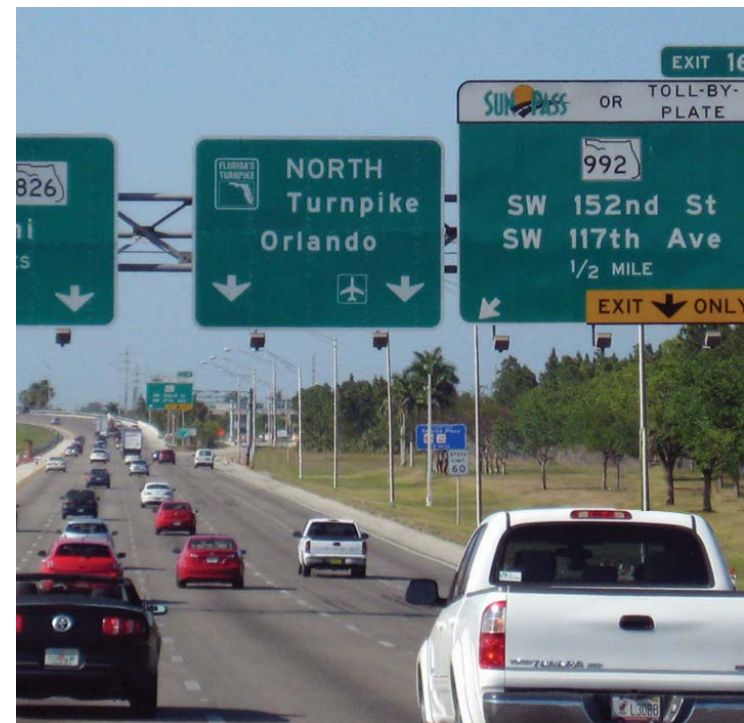


Jacksonville Area Express Lanes Network



Key Performance Measures

- Mobility/Reliability
 - Daily Traffic
 - Average Travel Speed
 - Travel Time Reliability
 - LOS During Peak Hours
- Safety
 - Number & Type of Crashes
- ETC Participation
- Public Acceptance



Summary and Next Steps

- Minimize Future Congestion
- 3 Turnpike Projects Under Construction
- Follow-up Surveys to Assess Customer Satisfaction
- Compare Actual Express Lane Usage with Model Forecast

