

# Managed Lanes Workshop Summary

*presented to*  
Florida Model Task Force

*presented by*  
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## Overview



- Managed Lanes Workshop Held May 22-23, 2013
  - State and National Experts
  - Topics
    - Current Florida Policy
    - Current Modeling Practice in Florida
    - National Practice
  - Technical Breakout Sessions
    - Planning
    - Operations
  - Identify Key Features of a Consistent Managed Lane Modeling Approach



## What Are Managed Lanes?



- Types of Managed Lanes:
  - HOV Lanes
  - Truck Only Lanes
  - Bus Rapid Transit Lanes
  - Ramp Metering
  - Express/HOT/Toll Lanes
  - Reversible Lanes
- Dependent on Business Rules Attached To Them
- Various Operational Strategies and Goals
- In Florida, Focus is on Express Lanes



## Why Managed Lanes?



- Offer Travel Choices
  - Enhance Mobility
  - Improve Travel Time Reliability
- Decline in Traditional Transportation Funding
- Congestion Management Tool
- May Help Accelerate Projects That Have Been Delayed



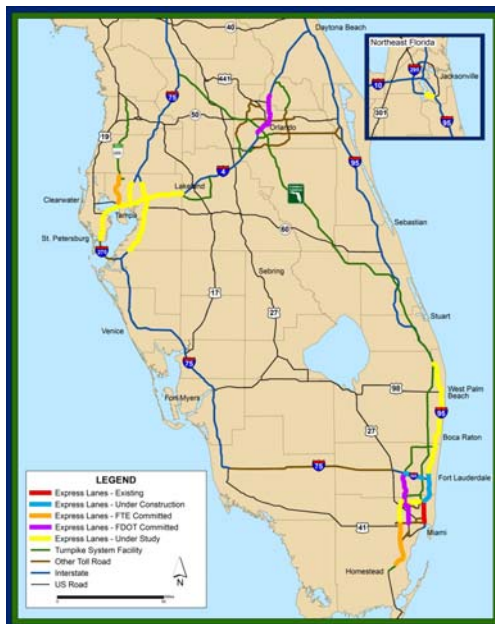
## 95 Express Impact



- First Express Lane Project in Florida
- Awarded \$63 M in Federal Funds in 2007
- Converted 7 Miles of HOV Lanes to HOT in December 2008
- Highly Successful
  - 50,000 Daily Users
  - Increased Peak Hour Speeds in General Purpose Lanes
  - Improved Overall Corridor Performance
  - Enhanced Transit Ridership



## Florida Express Lanes Projects



- Current Projects
  - 95 Express
  - I-595
  - Palmetto Express
  - I-75
  - I-4
  - Florida’s Turnpike
  - Veterans Expressway
- Many Others Under Study



## State Managed Lanes Policy



- Managed Lanes are a Transportation Systems Management and Operation Strategy (TSM&O)
- Draft Managed Lane Policy Statements Developed For:
  - Feasibility
  - Finance and Tolling
  - Concept of Operations
  - TSM&O Strategies
  - Design
- [floridamanagedlanes.com](http://floridamanagedlanes.com)



## Current Florida Practice



- 95 Express Lessons Learned
- SERPM Enhancements
  - 95 Express
  - I-95 Corridor Study
  - I-95 PD&E Study
- Operational Analysis
  - Micro-Simulation
  - Necessary to Show the Interaction of GUL and Express Lane Traffic
  - Assists in Design Considerations



## Current Florida Practice



- MTF Express Lane Modeling Work Plan
- FSUTMS Model Updates
- Toll Modeling Performance Goals
- Concept Plan
  - Phase I – Assignment Based Integrated Toll Choice (2012)
  - Phase II – Mode Choice and Assignment (2013)
  - Phase III – Discrete Choice (2014/2015)



## Current Florida Practice



- Current Approach to Express Lanes T&R Studies
  - Sketch Level
  - Planning Level
  - Investment Grade
- Schedule, Resources and Data Needs Increase with Each Level
- Risk Analysis
  - Uncertainty Inherent to Travel Demand Forecasts
  - Quantifying Risks Important to Toll Projects
  - Response Surface Method



## National Approach



- Various Managed Lanes Implemented Nationally
  - Initially HOV to HOT Conversions
  - Multi-Lane Capacity Systems
  - Regional Systems
- NCHRP Report #722
- Managed Lanes Projects
  - C470 & US 36 Corridor
  - I-405



## Resources



- NCHRP Report 722, Volumes 1 and 2
  - <http://www.trb.org/Main/Blurbs/168012.aspx>
- MTF and FDOT Documents
  - Focused on Managed Lanes and Toll Modeling
  - [http://www.fsutmsonline.net/index.php?/model\\_task\\_f/subcommittee/toll\\_modeling\\_subcommittee](http://www.fsutmsonline.net/index.php?/model_task_f/subcommittee/toll_modeling_subcommittee)

