SOUTH FLORIDA EXPRESS LANES
REGIONAL CONCEPT OF TRANSPORTATION OPERATIONS

IBTTA 80th Annual Meeting and Exhibition
Orlando, Florida
REGIONAL CONCEPT OF TRANSPORTATION OPERATIONS

- Framing the Problem and Approach
- South Florida Express Lane Experience and Plans
  - 95 Express as proof of concept
- Statewide Policy
- Regional Network of Express Lanes
- Regional Concept of Transportation Operations
THE PROBLEM

- 5.5 million people and growing
- 130 million miles
- 70 million gallons
- 140 million person-hours
- $3.0 billion
- 10/328
- $6 - $7 million/mile
- 9:1 vs. 2.7:1
THE APPROACH

• Optimize existing infrastructure and right of way
• Combine operational strategies with capacity where needed
• Strategies include
  – Freeway and Arterial Management
  – Traveler Information
  – Transit Operations & Management
  – Demand Management
DEMAND MANAGEMENT

• Congestion & Trip Reliability
• Transit & HOV Lane Performance
• Widening Prohibited
• Costly Alternatives
• Urban Partnership Agreement
• Concurrent Deployments of Multiple Strategies
• Freeway & Transit Operations Management
WHY AND HOW

PROPOSED TYPICAL SECTION
FROM NORTH OF I-95 (MP 4.0 ft) TO GOLDBERG GLADES INTERCHANGE (MP 13.9 ft)

EXISTING TYPICAL SECTION
FROM NORTH OF I-95 (MP 4.0 ft) TO GOLDBERG GLADES INTERCHANGE (MP 13.9 ft)
## PROOF OF CONCEPT

### Average Speed (MPH)

<table>
<thead>
<tr>
<th></th>
<th>2008 HOV Study</th>
<th></th>
<th>FY 2009</th>
<th></th>
<th>FY 2010</th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>SB</td>
<td>EL</td>
<td></td>
<td>NB</td>
<td>EL</td>
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<tr>
<td>AM Peak Period²</td>
<td>20.3</td>
<td>15.3</td>
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<td>--</td>
<td>63.7</td>
<td>51.0</td>
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<tr>
<td>PM Peak Period²</td>
<td>18.1</td>
<td>18.8</td>
<td>--</td>
<td>56.7</td>
<td>41.3</td>
<td>55.8</td>
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<tr>
<td>Overall</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>61.1</td>
<td>54.9</td>
<td>64.3</td>
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</table>

### Average Volume (vphp²)

<table>
<thead>
<tr>
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<th>2008 HOV Study</th>
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<th>FY 2010</th>
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<td>SB</td>
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<tr>
<td>AM Peak Period</td>
<td>1,548</td>
<td>1,331</td>
<td>--</td>
<td>--</td>
<td>1,244</td>
<td>1,607</td>
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<tr>
<td>PM Peak Period</td>
<td>1,455</td>
<td>1,597</td>
<td>1,152</td>
<td>1,347</td>
<td>1,236</td>
<td>1,346</td>
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<tr>
<td>Overall (Weekdays)</td>
<td>--</td>
<td>--</td>
<td>472</td>
<td>963</td>
<td>543</td>
<td>1,135</td>
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</tbody>
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*TSMCO*  
Managing and Operating for an Efficient Transportation System
PROOF OF CONCEPT

• Volume
  – 1.6 Million Trips/Month
  – 21% Increase

• Revenue
  – $1.3 Million/Month

• Peak Period Benefits
  – 12/15 MPH
  – Person Throughput
STATEWIDE EXPRESS LANE POLICY

• Express Lanes as part of a Statewide Policy
• Development of an Action Plan for Deployment
  – Guide the Identification, Prioritization and Implementation
• Identification
  – Limited Access, Congestion Severity and Duration
• Prioritization
  – Production-readiness and Opportunity Costs, Feasibility, Return on Investment, Transit Components
REGIONAL EXPRESS LANE NETWORK

Existing
— 95 Express (Phase 1A and 1B)
REGIONAL EXPRESS LANE NETWORK

Under Construction

- Phase 2 95 Express
- I-595 Express/Reversible Lane
- SR 826 from SR 836 to I-75
REGIONAL EXPRESS LANE NETWORK

Project Development and Environment Study

- MDX US-1 Busway
- I-75 (SR-826 to I-595)
- Golden Glades Interchange
- SR 826 (I-95 west to I-75)
- SR 7
- I-95 (North of I-595 to Glades Road)
SOUTHEAST FLORIDA EL NETWORK

Phased Roll-out

- FTE AET
- MDX ORT
REGIONAL CONCEPT OF OPERATIONS

- Connecting Facilities
- On-going Development and Future Operations
  - Enhance Mobility
  - Seamless Operations
  - Establish Interagency Agreements
  - Prioritize Investments
  - Establish Performance Metrics
WHAT IS AN RCTO?

• A “living” document containing operational, maintenance and technical guidance, including best practices, to inform the development of specific Express Lane projects

• **First step** in developing a shared set of expectations between transportation partners

• The foundation from which specific Express Lane project concept of operations is developed
BACKGROUND

Funded in cooperation between an FHWA VPPP grant and FDOT

The RCTO builds on the success of 95 Express

More express lane projects are coming to South Florida
KEY TOPICS

Initial key topics have been identified:

- RCTO vs. Corridor-specific Concept of Operations
- Identification of Key Stakeholders
- How to Administer Multi-agency, Regional Network
- Identify and Define Policy, Technical and Institutional Issues
- Establish performance targets for the Regional Network
EXPECTED OUTCOME

Following an extensive outreach process focused on collaboration, an approved RCTO document will address current and provide a framework to resolve future policy, technical and institutional issues associated with a regional network of Express Lanes Southeast Florida. It will define the roles and responsibilities of participating agencies and partners.
Final products include:

- RCTO Document
- Project Presentation
- Project Fact Sheet
- National Express Lanes White Paper
- 95 Express White Paper
- Subject Matter Presentation(s)

Note: Draft outlines, documents, and presentations will be prepared to inform the final products listed above.
REGIONAL EXPRESS LANE NETWORK

• Regional Transportation Concept of Operations Study
  – NTP issued in 02/2012
  – Completion Anticipated by early 2013
• Regional ConOps
  – Defines Roles & Responsibilities
  – Details the Issues and Agreements
  – Establishes a Framework for Future
Maximizing the Utility of Transportation Infrastructure
Offering Users a Predictable, Reliable Choice
Addressing the Congestion Problems of the Region