



# Planning Technical Advisory Committee Meeting (PTAC)

## REGULAR MEETING AGENDA

June 24, 2009  
10:30 a.m.

South Florida Regional Transportation Authority  
Boardroom  
800 NW 33<sup>rd</sup> Street  
Pompano Beach, Florida 33064  
*www.sfrta.fl.gov*

FOR FURTHER INFORMATION CALL JOSEPH QUINTY AT (954) 788-7928

### Members

Maria Batista, Miami-Dade Transit  
Michael Busha, Treasure Coast Regional Planning Council  
William Cross, South Florida Regional Transportation Authority  
Carolyn Dekle, South Florida Regional Planning Council  
Greg Stuart, Broward Metropolitan Planning Organization  
Jose Luis Mesa, Miami-Dade Metropolitan Planning Organization  
Barnie McCoy, Broward County Transit  
Gustavo Schmidt, Florida Department of Transportation, District IV  
Phil Steinmiller, Florida Department of Transportation, District VI  
Fred Stubbs, Palm Tran  
Randy Whitfield, Chairman, Palm Beach Metropolitan Planning Organization  
Nancy Ziegler, FDOT, District IV

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**Directions to SFRTA: I-95 to Copans Road. Go west on Copans to North Andrews Avenue Ext. and turn right. Go straight to Center Port Circle, which is NW 33rd Street, and turn right. SFRTA's offices are in the building to the right. The SFRTA offices are also accessible by taking the train to the Pompano Beach Station. The SFRTA building is South of the station. Parking is available across the street from SFRTA's offices, at the Pompano Beach Station.**

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**PLANNING TECHNICAL ADVISORY COMMITTEE (PTAC)**  
**MEETING OF JUNE 24, 2009**

The meeting will convene at 10:30 a.m., and will be held in the Boardroom of the South Florida Regional Transportation Authority, Administrative Offices, 800 NW 33<sup>rd</sup> Street, Suite 100, Pompano Beach, FL 33064.

**CALL TO ORDER**

**PLEDGE OF ALLEGIANCE**

**AGENDA APPROVAL** – Additions, Deletions, Revisions

**DISCUSSION ITEMS**

**MATTERS BY THE PUBLIC** – Persons wishing to address the Committee are requested to complete an “Appearance Card” and will be limited to three (3) minutes. Please see the Minutes Clerk prior to the meeting.

<b>CONSENT AGENDA</b>
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Those matters included under the Consent Agenda are self-explanatory and are not expected to require review or discussion. Items will be enacted by one motion in the form listed below. If discussion is desired by any PTAC Member, however, that item may be removed from the Consent Agenda and considered separately.
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C1 – MOTION TO APPROVE: Minutes of PTAC Meeting of May 20, 2009

<b>REGULAR AGENDA</b>
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Those matters included under the Regular Agenda differ from the Consent Agenda in that items will be voted on individually. In addition, presentations will be made on each motion, if so desired.
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None.

<b>INFORMATION / PRESENTATION ITEMS</b>
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Action not required, provided for information purposes only.
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I1 – INFORMATION: SFRTA FY 2010-2019 Transit Development Plan (TDP) Minor Update

I2 – INFORMATION: Interstate 95 Express Bus Projects

I3 – INFORMATION: SFRTA Shuttle Bus Assessment and Financial Plan -- Workshop

OTHER BUSINESS:

SFRTA EXECUTIVE DIRECTOR REPORTS/COMMENTS

PTAC MEMBER COMMENTS

MEETING ATTENDANCE SUMMARY

NEXT MEETING DATE – July 22, 2009

ADJOURNMENT

In accordance with the Americans with Disabilities Act and Section 286.26, Florida Statutes, persons with disabilities needing special accommodation to participate in this proceeding, must at least 48 hours prior to the meeting, provide a written request directed to the Executive Office at 800 NW 33<sup>rd</sup> Street, Suite 100, Pompano Beach, Florida, or telephone (954) 942-RAIL (7245) for assistance; if hearing impaired, telephone (800) 273-7545 (TTY) for assistance.

Any person who decides to appeal any decision made by the Board of Directors for the South Florida Regional Transportation with respect to any matter considered at this meeting or hearing, will need a record of the proceedings, and that, for such purpose, he/she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Persons wishing to address the Board are requested to complete an “Appearance Card” and will be limited to three (3) minutes. Please see the Minutes Clerk prior to the meeting.

# **DRAFT**

## **MINUTES**

### **SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY PLANNING TECHNICAL ADVISORY COMMITTEE (PTAC) MEETING MAY 20, 2009**

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The Planning Technical Advisory Committee (PTAC) meeting was held at 10:30 a.m. on Wednesday, May 20, 2009 in the Boardroom of the South Florida Regional Transportation Authority (SFRTA), Administrative Offices located at 800 NW 33<sup>rd</sup> Street, Suite 100, Pompano Beach, Florida 33064.

#### **COMMITTEE MEMBERS PRESENT:**

Ms. Kim Delaney, Treasure Coast RPC  
Mr. Wilson Fernandez, Miami-Dade Metropolitan Planning Organization (MPO)  
Mr. John Garcia, Miami-Dade Transit  
Mr. Shi Chiang Li, Florida Department of Transportation (FDOT) District 4  
Mr. Joseph Quinty, SFRTA  
Mr. Fred Stubbs, Palm Tran  
Mr. Jeff Weidner, FDOT District 4  
Mr. Randy Whitfield, Palm Beach MPO, PTAC Chair  
Mr. Enrique Zelaya, Broward MPO

#### **ALSO PRESENT:**

Mr. Steve Anderson, SFRTA  
Mr. Bill Ball, Tindale-Oliver  
Mr. Jose Clavell, FDOT District 6  
Mr. Dan Glickman, Citizen  
Ms. Sabrina Glenn, SFCS/Boca TMA  
Mr. John Lafferty, PB Americas  
Ms. Elaine Magnum, SFRTA  
Mr. Dan Mazza, SFRTA  
Ms. Angela Morlok, Palm Beach MPO  
Ms. Suzie Papillon, SFRTA  
Mr. Harry A. Rackand, MDT  
Mr. John Ramos, Broward County Transportation Department  
Mr. Amar Sarvepalli, PB Americas  
Mr. D. Michael Schloss, Williams Wilson  
Mr. Jim Udvardy, SFCS  
Ms. Lynda Westin, SFRTA  
Mr. Ravi Wijesundera, Kimley-Horn  
Ms. Natalie Yesbeck, SFRTA  
Mr. Eric Zahn, SFRTA

**CALL TO ORDER**

The Chair called the meeting to order at 10:40 a.m.

**ROLL CALL**

The Chair requested the roll call.

**PLEDGE OF ALLEGIANCE**

**AGENDA APPROVAL** – Additions, Deletions, Revisions

A motion was made by Mr. Enrique Zelaya to approve the agenda. The motion was seconded by Mr. Jeff Weidner. The motion was called to a vote and carried unanimously.

**DISCUSSION ITEMS**

**MATTERS BY THE PUBLIC** – None

**CONSENT AGENDA**

Those matters included under the Consent Agenda are self-explanatory and are not expected to require review or discussion. Items will be enacted by one motion in the form listed below. If discussion is desired by any Committee Member, however, that item may be removed from the Consent Agenda and considered separately.

**C1 – MOTION TO APPROVE:** Minutes of Planning Technical Advisory Committee Meeting of April 22, 2009.

A motion was made by Mr. Weidner to approve the meeting minutes. The motion was seconded by Mr. Wilson Fernandez. The motion was called to a vote and carried unanimously.

**REGULAR AGENDA**

Those matters included under the Regular Agenda differ from the Consent Agenda in that items will be voted on individually. In addition, presentations will be made on each motion, if so desired.

**R1 - MOTION TO ENDORSE:** Recommended Ranking for JARC and NF Programs Projects

Mr. Quinty thanked everyone who came earlier this morning for an informal workshop review of JARC and NF projects that was recommended at our last PTAC meeting. He recapped the workshop discussion for the committee. Mr. Quinty announced that for both the JARC and New Freedom Programs, there is more funding available than project requests, resulting in some left over funds in both programs. He said that the workshop participants reached consensus that the project scoring and rankings compiled by SFRTA staff and the project consultant should be moved forward. Mr. Quinty noted that there was one significant exception, as the application from Aloha Limousines, Inc. generated questions and doubt among committee members. He said that consensus was reached among committee members that the Aloha Limousines application did not include all of the required information and did not include enough details to demonstrate that it met the requirements for the program. Mr. Quinty noted that there was direction from multiple committee members for SFRTA staff to call all JARC and NF applicants and

review the shortcomings of all applications. Mr. Quinty closed by stating that next steps are for the project scoring and ranking to go before the SFRTA Governing Board at its June meeting. The projects would then be submitted to FTA before July 15<sup>th</sup>.

The Chairman Whitfield asked if there is a motion to recommend the Ranking for JARC and NF Programs Projects. The motion was made by Mr. Weidner and seconded by Mr. Enrique Zelaya. The motion was called to a vote and carried unanimously.

<b>INFORMATION / PRESENTATION ITEMS</b>
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Action not required, provided for information purposes only.
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**11. - INFORMATION:** Before & After Study – Double Track Corridor Improvement Program, Segment 5

Mr. John Lafferty of PB Americas, Inc. presented an overview of the Before and After Study currently being worked on by SFRTA and nearing completion. He explained that in order for a project to receive federal funding, it is required to go through a series of analytical steps incorporated into the larger framework of metropolitan transportation planning process and the National Environmental Policy Act (NEPA). Under the SAFETEA-LU guidance and the Final Rule of 2000, New Start Projects are required to undergo a Before and After Study. Mr. Lafferty stated that the purpose of the Before and After Study is to expand insights into the costs and impacts of major transit investments. Other goals are to improve technical methods and procedures used in planning and project development; develop more accurate descriptions of actual costs and project impacts, and assess reliability of forecasts prepared during planning and project development.

Mr. Lafferty provided an overview of the Segment 5 project timeline and project components. Key schedule milestones included:

- Environmental Assessment -November 1999
- New Starts Submittal -November 1999
- Full Funding Grant Agreement -May 2000
- Amended Full Funding Grant -April 2004
- Service Opening -March 2006
- Before Period -Before 2006
- After period -March 2008

Mr. Lafferty explained that the final project costs were very close to its earlier estimates. He also noted that ridership projections are on track with those developed as part of the Amended FFGA in 2004. Discussion ensued on the original 2000 estimates, which are far higher than Tri-Rail ridership in the current “after” condition. Mr. Lafferty explained that the 2000 ridership projections assumed numerous other transit projects in the region that would have been built, such as Metrorail extensions and the Baylink light rail. These projects never moving forward resulted in revised projected ridership figures to reflect the lesser supporting transit network. Mr. Lafferty also reviewed other individual project elements, including the guideway and level of service.

**12. - INFORMATION:** Palm Beach Gardens Transit-Oriented Development Charrette

Ms. Kim Delaney of the Treasure Coast Regional Planning Council stated that in March 2008, the Treasure Coast Regional Planning Council (TCRPC) conducted a planning charrette in the City of Palm

Beach Gardens to identify a future transit station location and TOD opportunities along the FEC corridor and within the city. She noted that the charrette was funded by the Palm Beach MPO, FDOT, SFRTA and the City of Palm Beach Gardens. Ms. Delaney reviewed the various recommendations from the charrette, for both station locations and redevelopment opportunities. Some of the highlights pursuant to SFRTA interests are:

- A regional park-and-ride station should be located immediately south of the PGA Boulevard flyover, west of the FEC corridor, along Design Center Drive. Parking for this station should be accommodated in two structures; one located west of the station platform, across Design Center Drive, on the wedge-shaped parcel (between the I-95 on-ramp and PGA Blvd) and the other located east across A1A, adjacent to the Downtown at the Gardens development.
- A bus transfer hub should be located adjacent to the station, west of Alternate A1A and immediately south of the PGA Blvd, flyover.
- Local shuttle circulator loop should be established to service major destinations along PGA Blvd., and in the vicinity of the future station.

Ms. Delaney stated that the final charrette recommendations will be presented to the City of Palm Beach Gardens in the Summer of 2009 for approval. She also noted that more information from the charrette is available online at [www.tcrpc.org](http://www.tcrpc.org).

### **13. - INFORMATION:** SFRTA Shuttle Bus Assessment and Financial Plan

Mr. Jeff Weidner introduced this item, stating that in consultation with SFRTA staff has recently initiated an assessment of SFRTA operated shuttle bus services so that action plans are in place to respond to various shuttle bus funding scenarios. Mr. Bill Ball of consulting firm Tindale-Oliver provided further details on the tasks involved in the study and the project schedule. Tasks mentioned by Mr. Ball include: Establish Shuttle bus performance criteria and assessment process; Apply shuttle bus assessment process to identify shuttle bus routes that meet the performance criteria and which routes do not meet the criteria; Integrate shuttle bus service recommendations from the 2008 SFRTA Transit Development Plan (TDP); Develop financial action plans for three shuttle bus scenarios, including (1) Existing Revenue Scenario, (2) Reduce Revenue Scenario, and (3) Increased Revenue Scenario.

Mr. Ball stated that they intend to bring a draft of the study results to the PTAC at its June meeting. He also noted that some PTAC members, particularly those from county transit agencies, may be requested for data and information and may be asked for feedback on particular study topics.

### **14. - INFORMATION:** SFRTA FY 2010-2019 Transit Development Plan (TDP) Minor Update

Mr. Quinty gave a brief overview of SFRTA's efforts to date on the minor annual update of its Transit Development Plan (TDP). He mentioned some topics that will need updating on the TDP, including finances, work program, and goals and objectives. He also noted that SFRTA Governing Board action at the upcoming Board meetings will have a huge impact on the TDP financial component.

### **OTHER BUSINESS:** PTAC Summer Meeting Schedule

The committee engaged in discussion on a summer meeting schedule for the PTAC. Committee members reached consensus to hold meetings in June and July, while canceling the August meeting. The

June and July dates were also changed from the original PTAC schedule. The new meeting dates are June 24 and July 22.

**SFRTA EXECUTIVE DIRECT OR REPORTS/COMMENTS**

None.

**PTAC MEMBER COMMENTS**

None.

**ADJOURNMENT**

The meeting was adjourned at 12:15 pm.

SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY  
PLANNING TECHNICAL ADVISORY COMMITTEE (PTAC)  
MEETING: JUNE 24, 2009

INFORMATION ITEM REPORT

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Information Item

Presentation

SFRTA FY 2010-2019 TRANSIT DEVELOPMENT PLAN (TDP) MINOR UPDATE

SUMMARY EXPLANATION AND BACKGROUND:

In 2008, SFRTA completed a major update of its Transit Development Plan (TDP). This TDP was SFRTA's first completed under the new guidelines requiring a ten-year planning horizon, which extended through FY 2018.

At the May 20, 2009 PTAC meeting, SFRTA staff gave a brief verbal presentation announcing the start of work on SFRTA's TDP Minor Update, which covers the period FY 2010 through FY 2019. Work on the TDP has continued since the May meeting. Further information will be shared with committee members at the June 24 PTAC meeting, including revised goals and objectives, compilation of a list of accomplishments and challenges, and an initial identification of changes that have occurred since completion of last year's TDP Major Update. The TDP project schedule calls for bringing the draft TDP Minor Update document to the PTAC at its July 20 meeting and to the SFRTA Governing Board at its summer meeting.

SFRTA Planning staff will present this item and share some draft materials from the in-progress TDP document.

EXHIBITS ATTACHED: None.

SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY  
PLANNING TECHNICAL ADVISORY COMMITTEE (PTAC)  
MEETING: JUNE 24, 2009

INFORMATION ITEM REPORT

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Information Item                       Presentation

FDOT REGIONAL EXPRESS BUS PROJECTS

SUMMARY EXPLANATION AND BACKGROUND:

The Florida Department of Transportation (FDOT) will provide information on three regional express bus projects that are programmed for implementation in the next 18 months. The presentation will show how these efforts support the Tri-Rail system, as well as explain the unique funding opportunities utilized to get the regional express bus projects programmed. Additionally, the presentation will provide some early feedback and evaluation of the “95 Express” managed lanes in Miami-Dade County.

EXHIBITS ATTACHED: Regional Bus Projects Slideshow.



# **FDOT Regional Bus Projects**

**I-95 Express Ft Laud to Miami**

**I-595 Express across Central  
Broward**

**I-95 Stuart/WPB Express**

**June 24, 2009**



# 95 Express – Urban Partnership Agreement

- **Intended for long-distance trips**
  - 21 miles, Miami to Ft. Lauderdale
- **Connects regional facilities**
- **1 HOV lane ➔ 2 Express lanes**
- **Congestion-priced tolls**
- **Bus Rapid Transit**
- **Carpool Registration**
  - Targeted and Effective in Reducing Trips
  - Unique to the Project

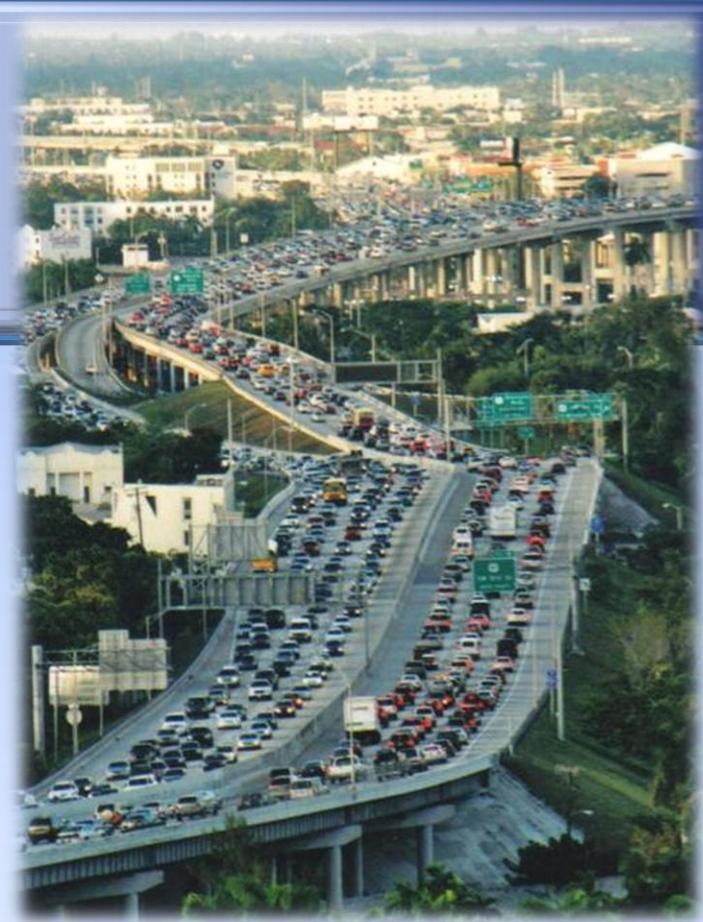


# Urban Partnership Agreement



# 95 Express Phasing: Phase 1

- Re-stripe I-95 to provide two 11-foot Express Lanes and four 11-foot travel lanes in each direction between I-195 and Golden Glades Interchange – Approx. cost: \$121.5 Million
- Phase 1A – Two northbound Express Lanes commenced collecting tolls December 5th, 2008
- Phase 1B – Two southbound Express Lanes collecting tolls by Winter 2009 /2010 (underway)
- Phase 2 – GGI to Broward Blvd – Two Express Lanes each direction, Unfunded



# Improvements

- **Phase 1 A Express Lanes**
- **Opened Dec 5, 2008**
  
- **Ramp Signals**
- **Opened Feb. 4, 2009**



# Transit Improvements Begin This Winter

State of the art transit technology



First implementation  
of Signal Priority in  
Broward County at  
50 SIGNALS



# Upgraded Park and Ride and Stops

- Utilization of existing resources – Broward Blvd Park and Ride Lot



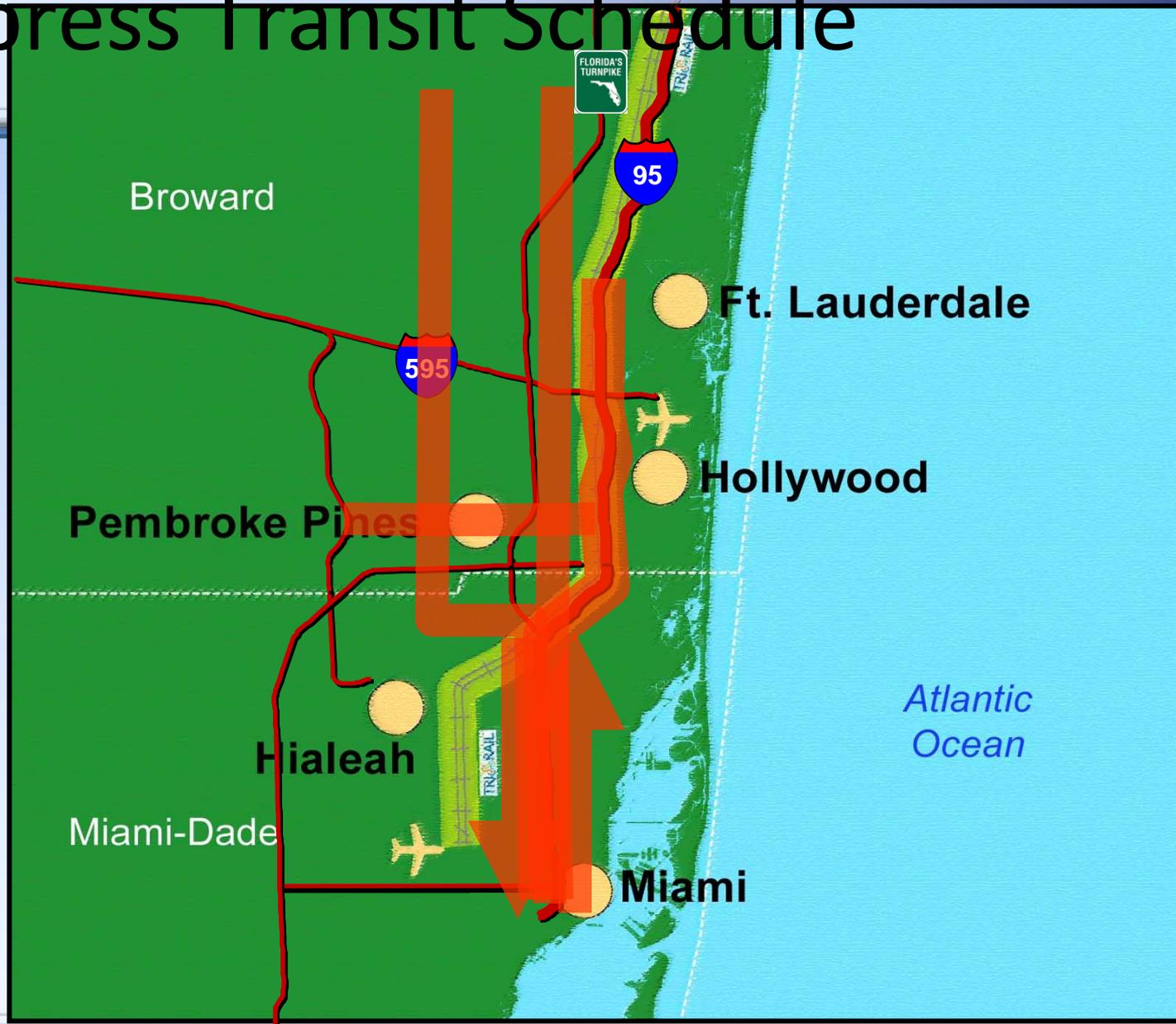
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## Upgrade of Stops/Stations



# 95 Express Transit Schedule

- Phase 1a NB  
Miami – GGI:  
Complete
- Ph1b SB GGI –  
Miami + BCT  
Extensions:  
Winter 2009/10
- Ph2 GGI –  
Ft Lauderdale:  
New 95 Express  
Service to Ft  
Laud and new  
Hollywood/  
Pines Service:  
March 2010



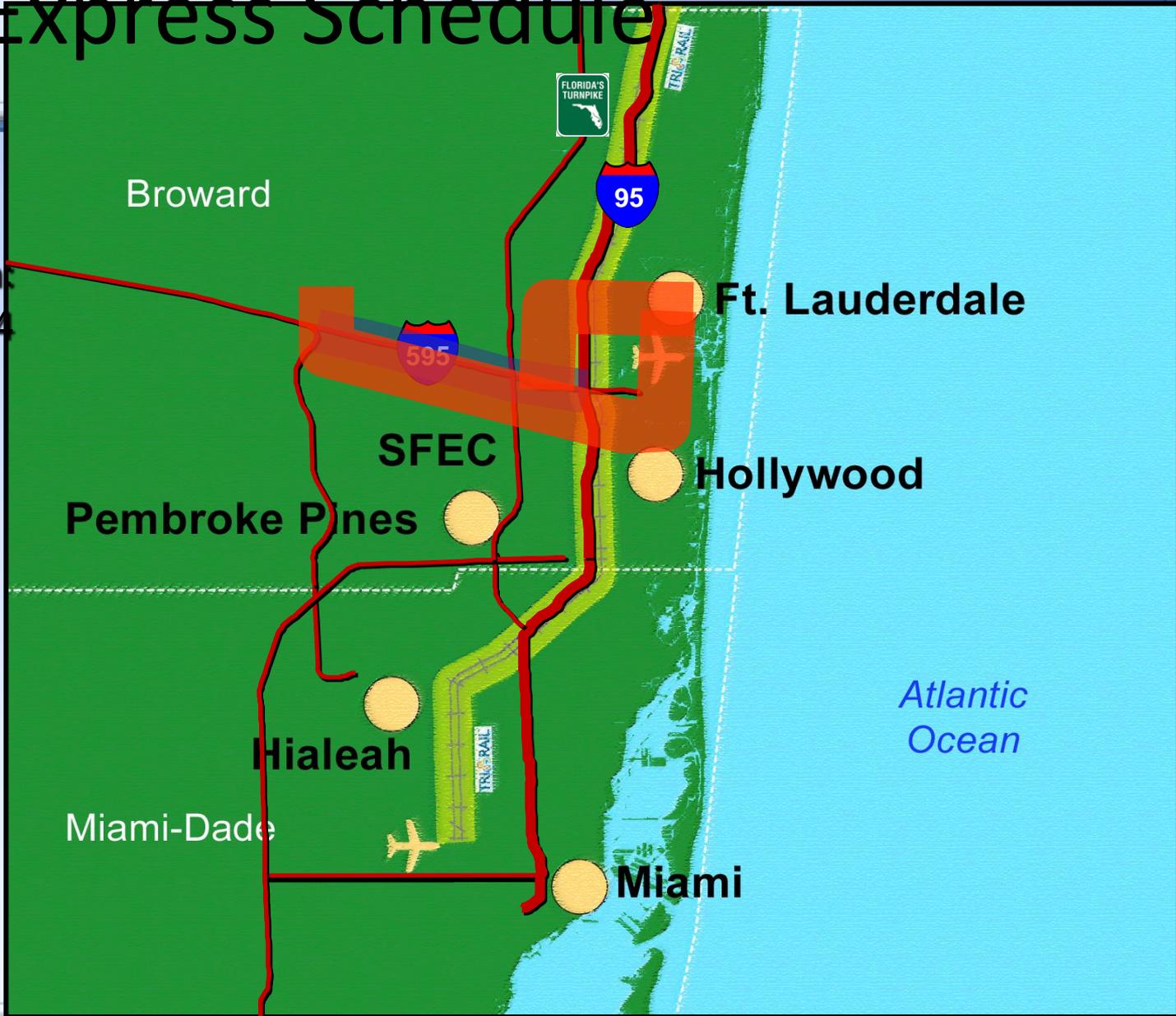
# Stuart to West Palm Beach Express Schedule

- **Stuart to West Palm Beach:  
August 2009**



# I-595 Express Schedule

- I-595 Construction: Spring 2009 – 2014
- Express Bus: Fall 2010 (MOT)



# Regional Map

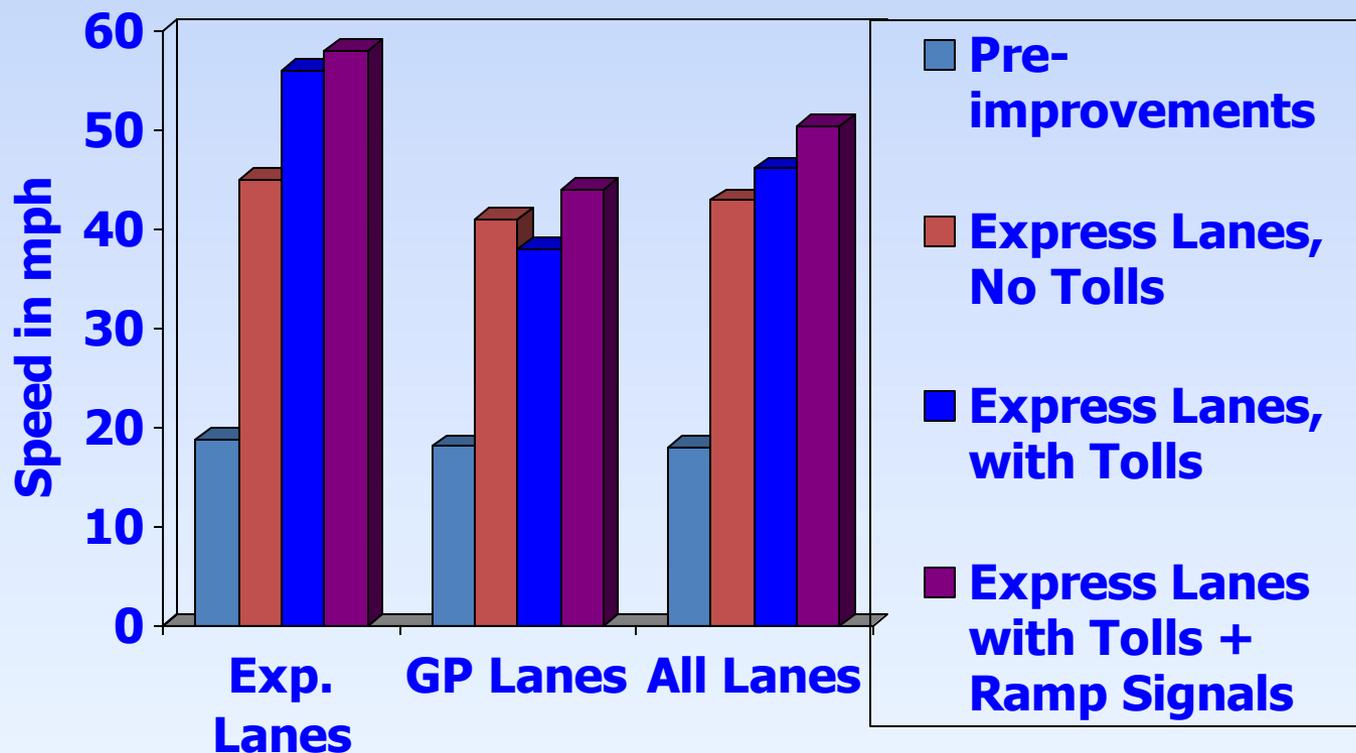
How This  
all Fits Together

- Stuart to WPB Express
- I-95 Express + Hollywood-Pines
- I-595 Express
- Future east-west projects

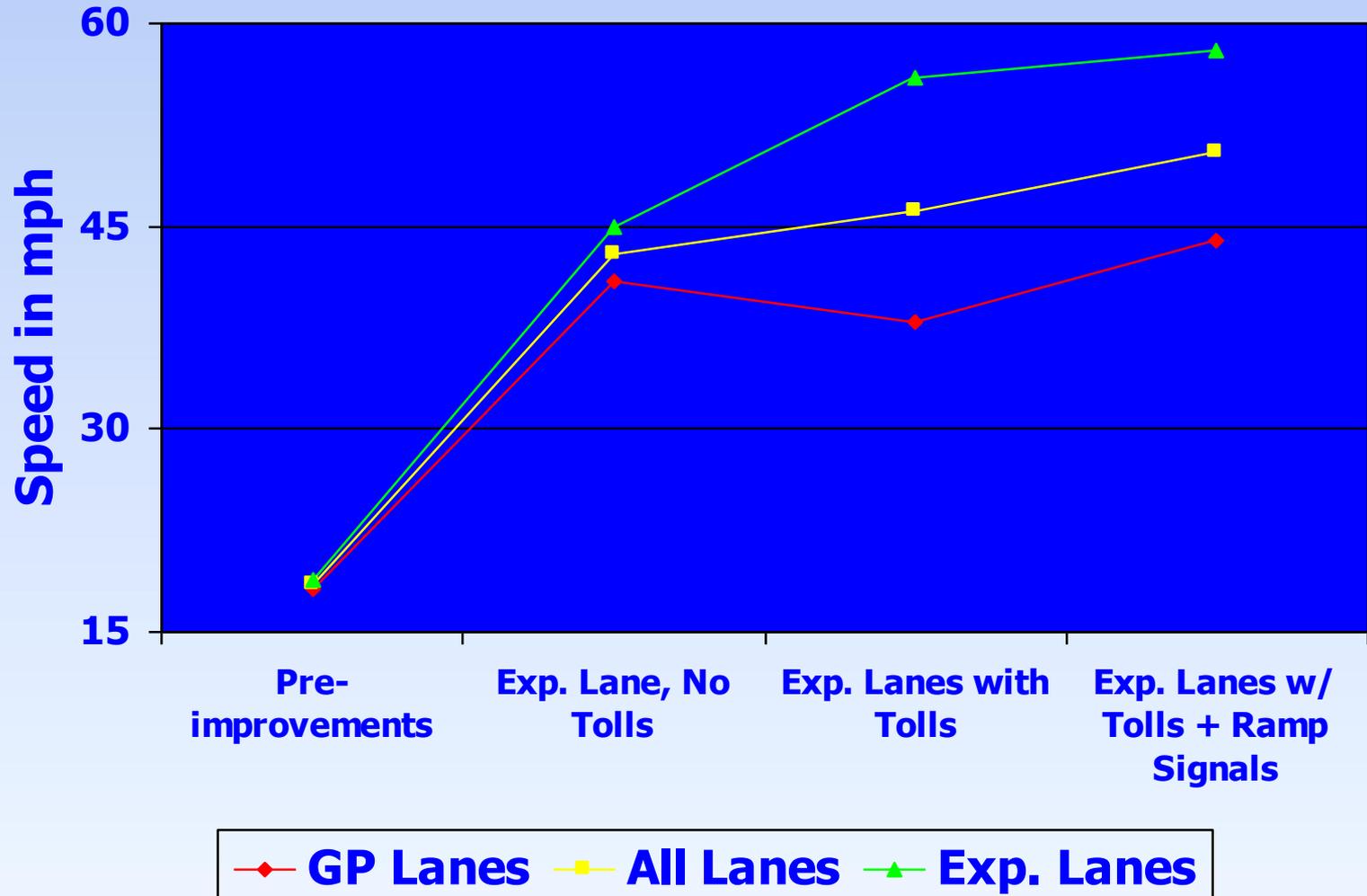


# Phase 1A Performance: Average Speed During PM Peak

Average travel speed increased from 18 mph to 50 mph



# Average Speed During PM Peak Period



# Alternative mode toll-free registrants:



Hybrid Sign-ups



Carpool Sign-ups



Vanpool Sign-ups

# JUNE 2009 – 95 EXPRESS SURVEY RESULTS

## **SURVEY DISTRIBUTION:**

The survey was distributed to the following:

160,000 - SunPass account holders in Broward and Miami-Dade Counties

30,000 - South Florida Commuter Services database participants

28,000 – Miami-Dade Government Employees via their newsletter

126 Employers along the I-95 corridor

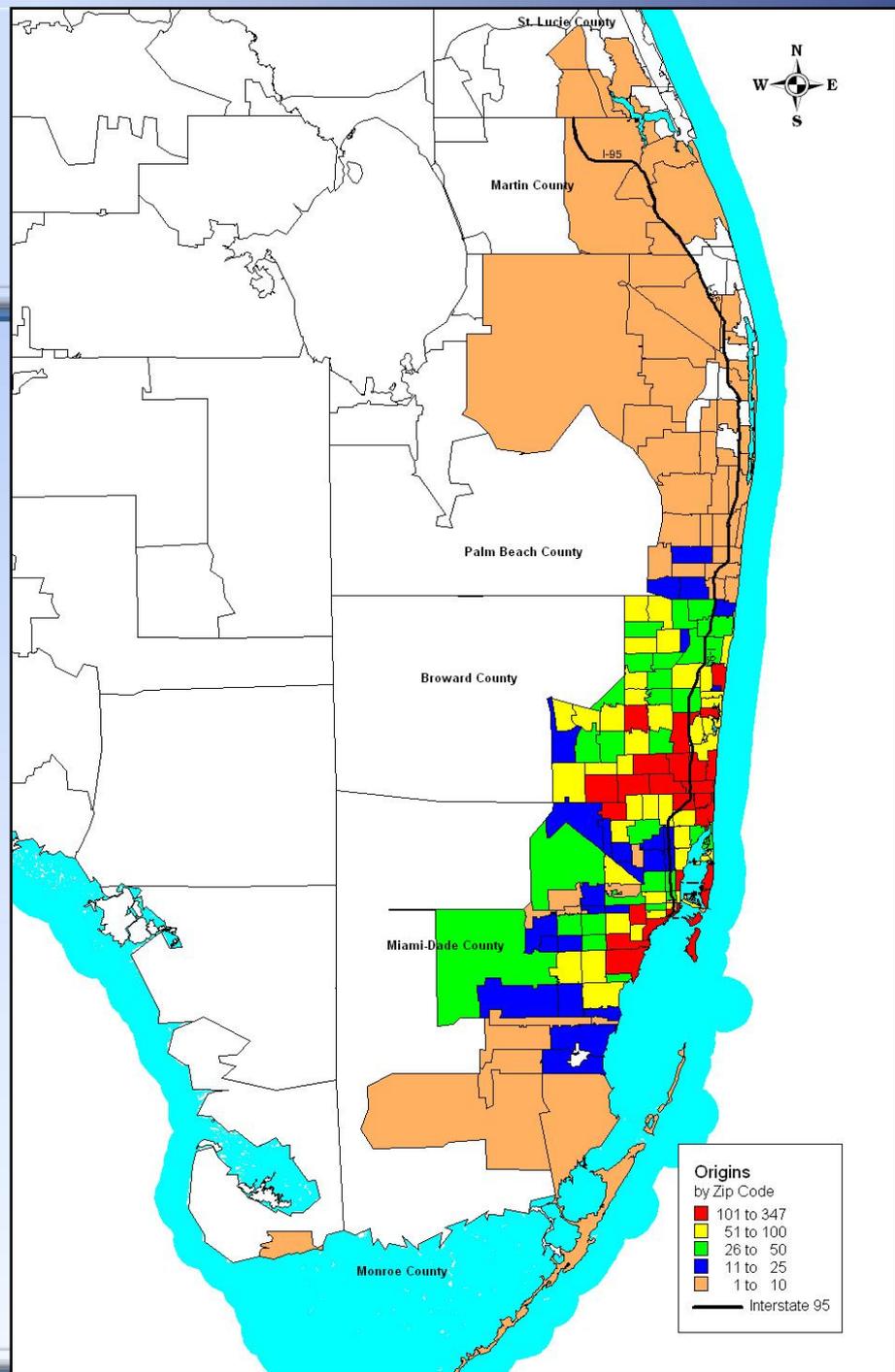
Greater Miami Chamber of Commerce Members

## **RESPONSES:**

**9,156** individuals participated in the survey with the **8,986** respondents having traveled on I-95 in Broward or Miami-Dade County in the last six months.



# Where do you live?



# Evaluation Effort

- Comprehensive effort underway
  - General survey – complete
  - Transit survey – underway, due August 2009
  - Operations analysis – underway, due August 2009
  - Air Quality Analysis – underway, due summer 2010
- Bi-annual monitoring HOV/Managed Lanes

# Environmental Impacts

- Reduced congestion
- Enhanced transit – vehicles and ridership
- Hybrid incentives
- Carpool/Vanpool
- SFCS Outreach on Telecommuting

# Environmental Impacts: Case Studies

- London
  - 30% drop in congestion
  - 37% increase in travel speed
  - 12% drop in particulate matter and nitrous oxides
  - 20% decrease in fossil fuel consumption and CO<sub>2</sub> emissions

# Environmental Impacts: Case Studies

- Singapore
  - 10 mph increase in average speed
  - 25% fewer accidents
  - 20% increase in public transportation
  - 176,400 fewer lbs of CO<sub>2</sub> emitted
- Stockholm
  - 15% reduction in traffic
  - 10 – 14% reduction in CO<sub>2</sub> emissions

# Lessons Learned

## Comprehensive Evaluation Effort Underway

## Operational Analysis Early in Process

- Identify Solutions Consistent with Project Objectives

## Signing and Marking

## Outreach

- Do More (Way More) than you usually do
  - Emphasis on Operation not Construction
- Plan Outreach for Milestones Important to the Public
- Develop Strong, Simple, Consistent Communication Plan



# QUESTIONS

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SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY  
PLANNING TECHNICAL ADVISORY COMMITTEE (PTAC)  
MEETING: JUNE 24, 2009

INFORMATION ITEM REPORT

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Information Item

Presentation

SFRTA SHUTTLE BUS ASSESSMENT AND FINANCIAL PLAN -- WORKSHOP

SUMMARY EXPLANATION AND BACKGROUND:

The South Florida Regional Transportation Authority (SFRTA), which operates Tri-Rail commuter rail service, currently contracts for the operation of 18 shuttle buses to provide feeder bus service to and from Tri-Rail stations. Additional shuttle buses are operated by local transit operators. FDOT District Four staff, in consultation with SFRTA staff, has determined that an assessment of shuttle bus services is needed so that action plans are in place to respond to various shuttle bus funding scenarios.

This project was introduced at the May 20, 2009, PTAC meeting, with the understanding that a workshop would be facilitated with PTAC members at their next meeting (June 24, 2009). At the workshop, Consultant representatives will distribute performance data on the various shuttle bus routes, give a brief presentation, and then facilitate an informal workshop discussion. FDOT District Four and SFRTA are looking forward to a productive discussion of how to prioritize shuttle bus routes for funding by the Department.

EXHIBITS ATTACHED: Draft Shuttle Bus Service and Financial Assessment Workshop Packet

**SFRTA**  
**Shuttle Bus Service & Financial Assessment**

**Workshop with**  
**Planning Technical Advisory Committee**



**FLORIDA DEPARTMENT OF TRANSPORTATION**  
**DISTRICT FOUR**



**SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY**

**June 24, 2009**

**Table 1  
Tri-Rail Shuttle Bus Service & Financial Summary**

Shuttle Route	Average Daily Ridership			Total Annual Ridership	Riders per Revenue Hour	Annual Cost	Revenues	% of Cost	Funding Source	Local Routes (potential duplication in bold)
	Weekday	Saturday	Sunday							
Miami Airport Shuttle	515	184	121	145,941	25.6	\$415,000	\$415,000	100%	FDOT	MDT 37, 57, 238
Koger Shuttle	153	n/a	n/a	39,015	24.8	\$150,000	\$150,000	100%	FDOT	MDT J, <b>36</b> , 42
Fort Lauderdale Airport Circulator	186	n/a	n/a	27,484	23.2	\$112,200	\$112,200	100%	FDOT	BCT 4, 6, 15, 16
Fort Lauderdale Airport Shuttle - FLA 1	610	327	305	185,965	18.9	\$777,332	\$777,332	100%	FDOT	BCT 4, 6, 15, 16
SFEC – Davie Campus Shuttle	235	n/a	n/a	60,000	17.1	\$190,000	\$95,000	50%	FDOT	BCT 4, 6, 15, 16
							\$95,000	50%	SFEC TMA	
Cypress Creek Shuttle 2	143	n/a	n/a	36,368	15.3	\$242,840	\$242,840	100%	FDOT	BCT 60, 62
Fort Lauderdale Shuttle - FL 1	351	n/a	n/a	89,431	13.0	\$452,140	\$452,140	100%	FDOT	BCT <b>9, 22, 81</b>
Palm Tran Route 94	334	n/a	n/a	85,200	12.0	\$322,000	\$161,000	50%	FDOT	Palm Tran 2, 94
							\$161,000	50%	City of Boca Raton	
Deerfield Beach Shuttle 2	68	n/a	n/a	17,339	9.4	\$114,400	\$114,400	100%	FDOT	BCT 48
Boca Raton Shuttle - BR 1	71	n/a	n/a	18,085	8.9	\$112,200	\$100,000	89%	Private Developer (Teachers)	Palm Tran <b>2</b> , 94
							\$12,200	11%	SFRTA General Funds	
Cypress Creek Shuttle 1	72	n/a	n/a	18,468	7.9	\$246,480	\$246,480	100%	FDOT	BCT 60, 62
Sheridan Street Shuttle - SS 1	49	n/a	n/a	12,591	7.3	\$114,400	\$114,400	100%	FDOT	BCT 3, <b>12</b> , 17
Cypress Creek Shuttle 3	100	n/a	n/a	25,566	6.9	\$182,000	\$182,000	100%	FDOT	BCT 60, <b>62</b>
Fort Lauderdale Downtown Sun Trolley	No service to Tri-Rail station	110	70	8,640	6.2	\$66,684	\$34,000	50%	SFRTA General Funds	BCT <b>9, 22, 81</b>
							\$34,000	50%	Downtown Ft. Lauderdale TMA	
Pompano Beach Shuttle	55	n/a	n/a	28,225	5.9	\$274,820	\$274,820	100%	FDOT	BCT 34
Deerfield Beach Shuttles 1	43	n/a	n/a	21,771	5.9	\$232,440	\$232,440	100%	FDOT	BCT <b>48</b>
Port Everglades Shuttle - FLA 2	44	15	30	13,297	5.1	\$168,740	\$168,740	100%	FDOT	BCT 4, 6, 15, 16
<b>Total</b>	<b>3,029</b>	<b>636</b>	<b>526</b>	<b>833,386</b>	<b>Average: 12.5</b>	<b>\$4,173,676</b>	<b>\$4,174,992</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>

Source: SFRTA, Palm Tran, BCT, MDT  
n/a – Not applicable

- Notes:
1. Service performance data for the Fort Lauderdale Airport Circulator is for seven months only. The route was implemented in September 2008. However, annual operating cost data for the Fort Lauderdale Airport Circulator shows the projected annual cost. Revenues for the circulator also assume 100% funding from FDOT.
  2. Data for Fort Lauderdale Sun Trolley for weekdays is not included as no weekday service is provided to Tri-Rail stations.

**Table 2  
Existing Funding by Source**

Funding Source	Funding Type	Total Cost
FDOT Feeder Bus	FDOT	\$3,138,792
FDOT State Block Grant	FDOT	\$600,000
City of Boca Raton	Local	\$161,000
Boca Raton Shuttle - Developer Contribution	Private	\$100,000
South Florida Education Council TMA	Local	\$95,000
SFRTA General Funds	Regional	\$46,200
Downtown Ft. Lauderdale TMA	Local	\$34,000
<b>Total</b>		<b>\$4,174,99</b>

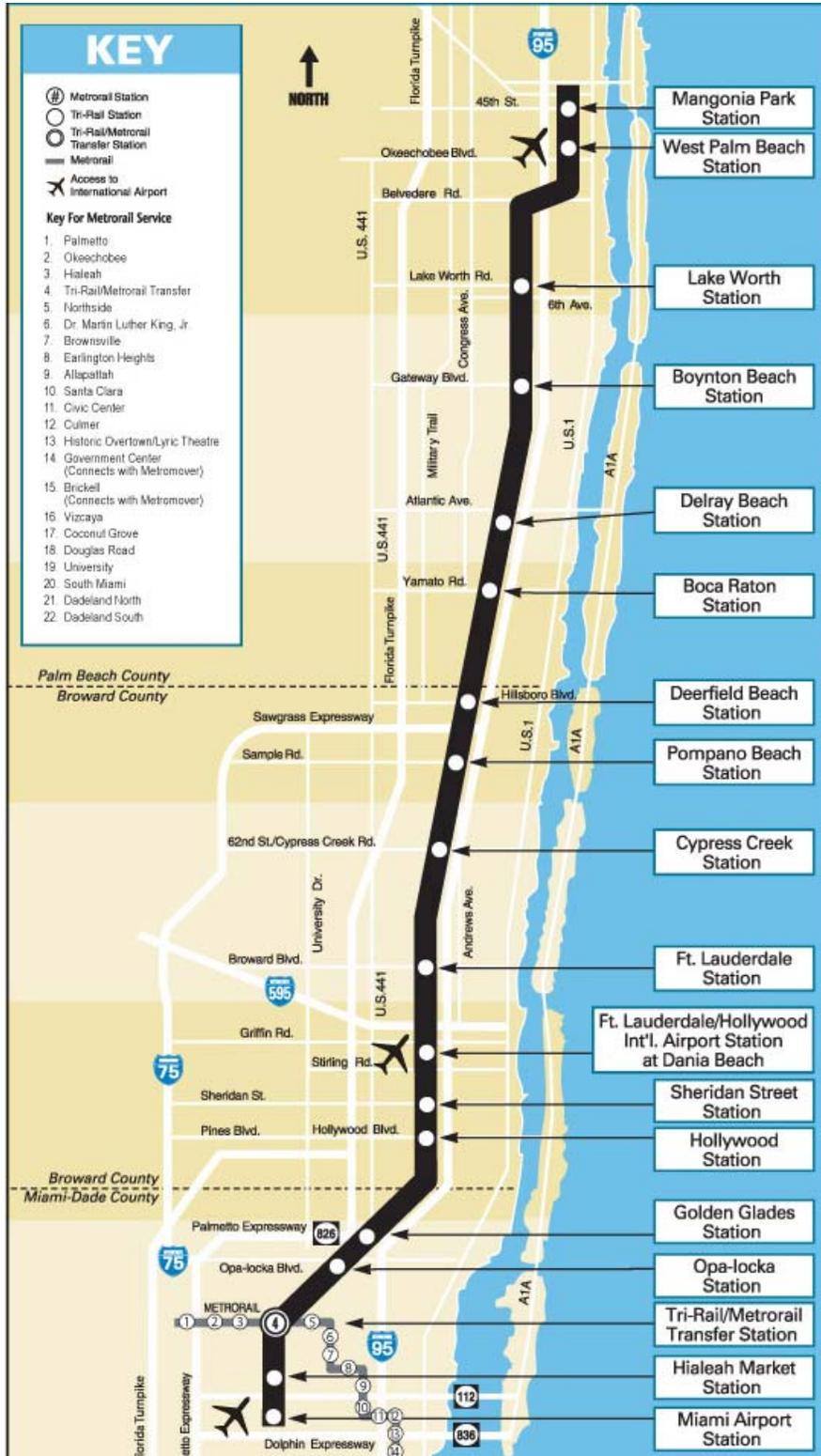
Source: SFRTA & FDOT

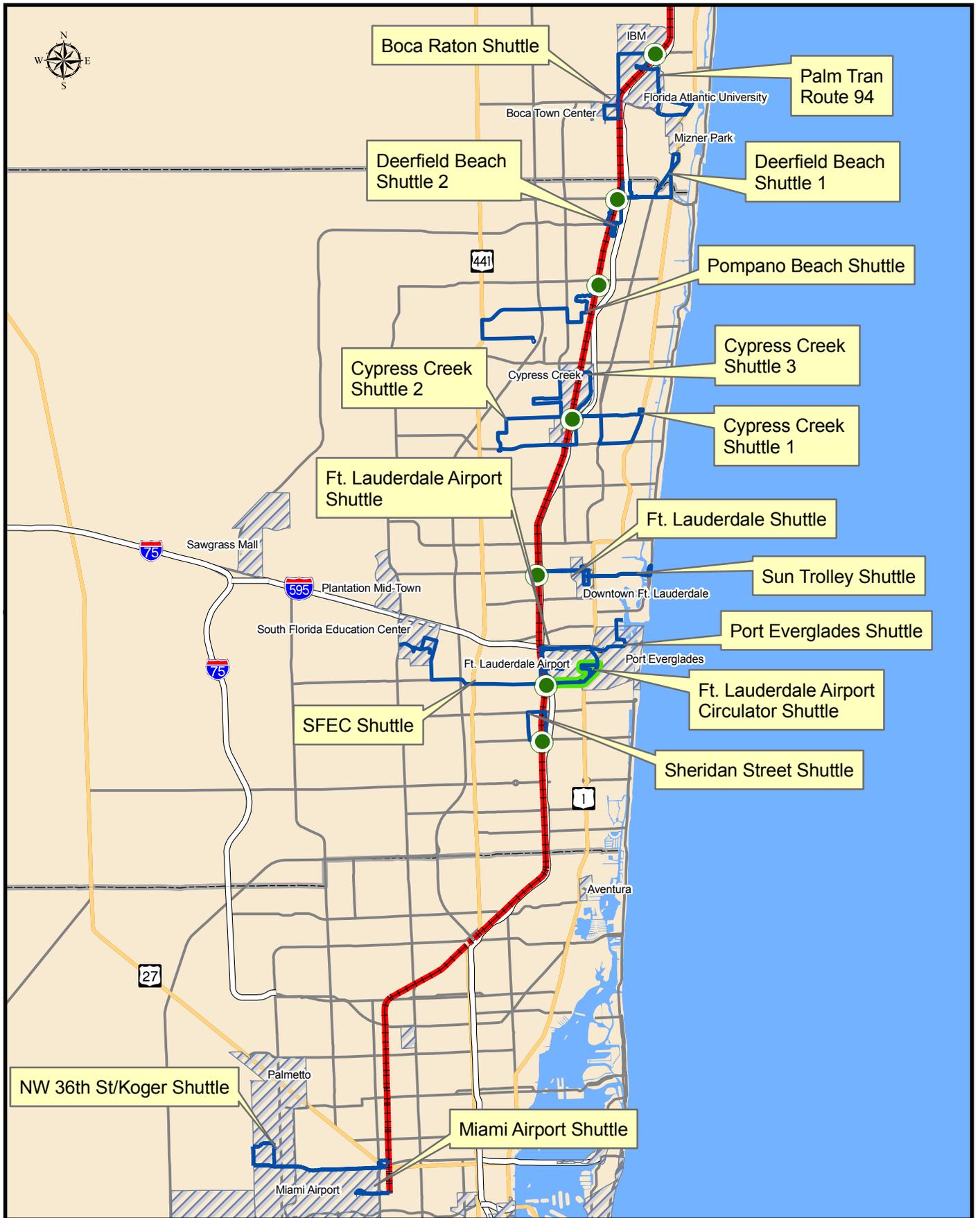
**Table 3  
Future Minimum Funding by Source**

Funding Source	Funding Type	Total Cost
FDOT Feeder Bus	FDOT	\$2,000,000
FDOT State Block Grant	FDOT	\$600,000
<b>Total</b>		<b>\$2,600,000</b>

Source: SFRTA & FDOT

Figure 1  
Tri-Rail System and Train Stations





**Figure 2**  
**SFRTA Shuttles &**  
**Service Area**

**Legend**

- Stations with SFRTA Shuttles
  - SFRTA Shuttles
  - Tri-Rail
  - Major Activity Centers\*
  - Interstate
  - US Highway
- \* As Identified by SFRTA



# Additional Data

**Table A-1  
Ridership (April 2008 - March 2009)**

Shuttle Route	Ridership			Total	% of Total
	Weekday	Saturday	Sunday		
Fort Lauderdale Airport Shuttle - FLA 1	155,606	15,709	14,650	<b>185,965</b>	22%
Miami Airport Shuttle	131,325	8,832	5,784	<b>145,941</b>	18%
Fort Lauderdale Shuttle - FL 1	89,431	n/a	n/a	<b>89,431</b>	11%
Palm Tran Route 94	85,200	n/a	n/a	<b>85,200</b>	10%
SFEC - Davie Campus Shuttle	60,000	n/a	n/a	<b>60,000</b>	7%
Koger Shuttle	39,015	n/a	n/a	<b>39,015</b>	5%
Cypress Creek Shuttle 2	36,368	n/a	n/a	<b>36,368</b>	4%
Pompano Beach Shuttle	28,225	n/a	n/a	<b>28,225</b>	3%
Fort Lauderdale Airport Circulator	27,484	n/a	n/a	<b>27,484</b>	3%
Cypress Creek Shuttle 3	25,566	n/a	n/a	<b>25,566</b>	3%
Deerfield Beach Shuttle 1	21,771	n/a	n/a	<b>21,771</b>	3%
Cypress Creek Shuttle 1	18,468	n/a	n/a	<b>18,468</b>	2%
Boca Raton Shuttle – BR 1	18,085	n/a	n/a	<b>18,085</b>	2%
Deerfield Beach Shuttle 2	17,339	n/a	n/a	<b>17,339</b>	2%
Port Everglades Shuttle - FLA 2	11,120	724	1,453	<b>13,297</b>	2%
Sheridan Street Shuttle - SS 1	12,591	n/a	n/a	<b>12,591</b>	2%
Fort Lauderdale Downtown Sun Trolley	Not included	5,280	3,360	<b>8,640</b>	1%
<b>Total</b>	<b>777,594</b>	<b>30,545</b>	<b>25,247</b>	<b>833,386</b>	100%

Source: SFRTA, Palm Tran, BCT, MDT  
n/a – Not applicable

Notes:

1. Data for the Fort Lauderdale Airport Circulator is for seven months only. The route was implemented in September 2008.
2. Data for Fort Lauderdale Sun Trolley for weekdays is not included as no weekday service is provided to Tri-Rail stations.

**Table A-2  
Revenue Hours (April 2008 - March 2009)**

Shuttle Route	Revenue Hours			Total	% of Total
	Weekday	Saturday	Sunday		
Fort Lauderdale Airport Shuttle - FLA 1	8,415	720	720	<b>9,855</b>	16%
Palm Tran Route 94	7,098	n/a	n/a	<b>7,098</b>	11%
Fort Lauderdale Shuttle - FL 1	6,885	n/a	n/a	<b>6,885</b>	11%
Miami Airport Shuttle	4,293	708	708	<b>5,709</b>	9%
Pompano Beach Shuttle	4,781	n/a	n/a	<b>4,781</b>	8%
Deerfield Beach Shuttle 1	3,698	n/a	n/a	<b>3,698</b>	6%
Cypress Creek Shuttle 3	3,698	n/a	n/a	<b>3,698</b>	6%
SFEC – Davie Campus Shuttle	3,511	n/a	n/a	<b>3,511</b>	6%
Port Everglades Shuttle - FLA 2	1,652	480	480	<b>2,612</b>	4%
Cypress Creek Shuttle 2	2,372	n/a	n/a	<b>2,372</b>	4%
Cypress Creek Shuttle 1	2,346	n/a	n/a	<b>2,346</b>	4%
Boca Raton Shuttle - BR 1	2,040	n/a	n/a	<b>2,040</b>	3%
Deerfield Beach Shuttle 2	1,849	n/a	n/a	<b>1,849</b>	3%
Sheridan Street Shuttle - SS 1	1,721	n/a	n/a	<b>1,721</b>	3%
Koger Shuttle	1,573	n/a	n/a	<b>1,573</b>	3%
Fort Lauderdale Downtown Sun Trolley	Not included	750	654	<b>1,405</b>	2%
Fort Lauderdale Airport Circulator	1,184	n/a	n/a	<b>1,184</b>	2%
<b>Total</b>	<b>57,113</b>	<b>2,658</b>	<b>2,562</b>	<b>62,334</b>	100%

Source: SFRTA, Palm Tran, BCT, MDT  
n/a – Not applicable

Notes:

1. Data for the Fort Lauderdale Airport Circulator is for seven months only. The route was implemented in September 2008.
2. Data for Fort Lauderdale Sun Trolley for weekdays is not included as no weekday service is provided to Tri-Rail stations.

**Table A-3  
Operating Cost (April 2008 - March 2009)**

Shuttle Route	Revenue Hours			Total
	Weekday	Saturday	Sunday	
Fort Lauderdale Airport Shuttle - FLA 1	\$664,180	\$56,576	\$56,576	<b>\$777,332</b>
Fort Lauderdale Shuttle - FL 1	\$452,140	n/a	n/a	<b>\$452,140</b>
Miami Airport Shuttle	Not available	Not available	Not available	<b>\$415,000</b>
Palm Tran Route 94	\$322,000	n/a	n/a	<b>\$322,000</b>
Pompano Beach Shuttle	\$274,820	n/a	n/a	<b>\$274,820</b>
Cypress Creek Shuttle 1	\$246,480	n/a	n/a	<b>\$246,480</b>
Cypress Creek Shuttle 2	\$242,840	n/a	n/a	<b>\$242,840</b>
Deerfield Beach Shuttle 1	\$232,440	n/a	n/a	<b>\$232,440</b>
SFEC - Davie Campus Shuttle	\$190,000	n/a	n/a	<b>\$190,000</b>
Cypress Creek Shuttle 3	\$182,000	n/a	n/a	<b>\$182,000</b>
Port Everglades Shuttle - FLA 2	\$114,400	\$27,170	\$27,170	<b>\$168,740</b>
Koger Shuttle	\$150,000	n/a	n/a	<b>\$150,000</b>
Deerfield Beach Shuttle 2	\$114,400	n/a	n/a	<b>\$114,400</b>
Sheridan Street Shuttle - SS 1	\$114,400	n/a	n/a	<b>\$114,400</b>
Boca Raton Shuttle - BR 1	\$112,200	n/a	n/a	<b>\$112,200</b>
Fort Lauderdale Downtown Sun Trolley	Not included	Not available	Not available	<b>\$66,684</b>
Fort Lauderdale Airport Circulator	\$65,120	n/a	n/a	<b>\$65,120</b>
<b>Total</b>	<b>\$3,477,420</b>	<b>\$83,746</b>	<b>\$83,746</b>	<b>\$4,126,596</b>

Source: SFRTA, Palm Tran, BCT, MDT  
n/a – Not applicable

Notes:

1. Data for the Fort Lauderdale Airport Circulator is for seven months only. The route was implemented in September 2008.
2. Data for Fort Lauderdale Sun Trolley for weekdays is not included as no weekday service is provided to Tri-Rail stations.

**Table A-4  
Riders per Hour (April 2008 - March 2009)**

Shuttle Route	Riders per Hour			Overall
	Weekday	Saturday	Sunday	
Miami Airport Shuttle	30.6	12.5	8.2	25.6
Koger Shuttle	24.8	n/a	n/a	24.8
Fort Lauderdale Airport Circulator	23.2	n/a	n/a	23.2
Fort Lauderdale Airport Shuttle - FLA 1	18.5	21.8	20.3	18.9
SFEC - Davie Campus Shuttle	17.1	n/a	n/a	17.1
Cypress Creek Shuttle 2	15.3	n/a	n/a	15.3
Fort Lauderdale Shuttle - FL 1	13.0	n/a	n/a	13.0
Palm Tran Route 94	12.0	n/a	n/a	12.0
Deerfield Beach Shuttle 2	9.4	n/a	n/a	9.4
Boca Raton Shuttle - BR 1	8.9	n/a	n/a	8.9
Cypress Creek Shuttle 1	7.9	n/a	n/a	7.9
Sheridan Street Shuttle - SS 1	7.3	n/a	n/a	7.3
Cypress Creek Shuttle 3	6.9	n/a	n/a	6.9
Fort Lauderdale Downtown Sun Trolley	Not included	7.0	5.1	6.2
Pompano Beach Shuttle	5.9	n/a	n/a	5.9
Deerfield Beach Shuttle 1	5.9	n/a	n/a	5.9
Port Everglades Shuttle - FLA 2	6.7	1.5	3.0	5.1
<b>Average</b>	<b>13.3</b>	<b>10.7</b>	<b>9.3</b>	<b>12.5</b>

Source: SFRTA, Palm Tran, BCT, MDT  
n/a - Not applicable.

Notes:

1. Data for the Fort Lauderdale Airport Circulator is for seven months only. The route was implemented in September 2008.
2. Data for Fort Lauderdale Sun Trolley for weekdays is not included as no weekday service is provided to Tri-Rail stations.

**Table A-5  
Cost per Trip (April 2008 - March 2009)**

Shuttle Route	Cost Per Trip			Overall
	Weekday	Saturday	Sunday	
Fort Lauderdale Airport Circulator	\$2.37	n/a	n/a	<b>\$2.37</b>
Miami Airport Shuttle	Not available	Not available	Not available	<b>\$2.84</b>
SFEC - Davie Campus Shuttle	\$3.17	n/a	n/a	<b>\$3.17</b>
Palm Tran Route 94	\$3.78	n/a	n/a	<b>\$3.78</b>
Koger Shuttle	\$3.84	n/a	n/a	<b>\$3.84</b>
Fort Lauderdale Airport Shuttle - FLA 1	\$4.27	\$3.60	\$3.86	<b>\$4.18</b>
Fort Lauderdale Shuttle - FL 1	\$5.06	n/a	n/a	<b>\$5.06</b>
Boca Raton Shuttle - BR 1	\$6.20	n/a	n/a	<b>\$6.20</b>
Deerfield Beach Shuttle 2	\$6.60	n/a	n/a	<b>\$6.60</b>
Cypress Creek Shuttle 2	\$6.68	n/a	n/a	<b>\$6.68</b>
Cypress Creek Shuttle 3	\$7.12	n/a	n/a	<b>\$7.12</b>
Fort Lauderdale Downtown Sun Trolley	Not included	Not available	Not available	<b>\$7.72</b>
Sheridan Street Shuttle - SS 1	\$9.09	n/a	n/a	<b>\$9.09</b>
Pompano Beach Shuttle	\$9.74	n/a	n/a	<b>\$9.74</b>
Deerfield Beach Shuttle 1	\$10.68	n/a	n/a	<b>\$10.68</b>
Port Everglades Shuttle - FLA 2	\$10.29	\$37.53	\$18.70	<b>\$12.69</b>
Cypress Creek Shuttle 1	\$13.35	n/a	n/a	<b>\$13.35</b>
<b>Total</b>	<b>\$4.47</b>	<b>\$2.74</b>	<b>\$3.32</b>	<b>\$4.95</b>

Source: SFRTA, Palm Tran, BCT, MDT  
n/a - Not applicable

Notes:

1. Data for the Fort Lauderdale Airport Circulator is for seven months only. The route was implemented in September 2008.
2. Data for Fort Lauderdale Sun Trolley for weekdays is not included as no weekday service is provided to Tri-Rail stations.

