

# **November 15, 2013**



# **Agenda**

- Introductions
- SERPM7 Status Report
- Draft Financial Revenue Projections
- Needs Assessment Process
- Next Steps
- Meeting Adjournment





## **SERPM7 Status Report**

- Model validation December 2013
- ► E+C definition 1<sup>st</sup> draft coded, comments provided
- E+C model run November 27, 2013
- Background needs network definition by December 2, 2013





# **Draft Financial Revenue Projections**

- Met with MDX staff 9/19/13
- Met with Miami-Dade Office of Management and Budget staff 10/15/13
- Met with Florida Turnpike Enterprise staff 10/25/13







## **Draft Financial Revenue Projections**



- 1. Overview of environment for long range financial planning
- 2. 2035 vs. 2040 Updates
- 3. Financial Resources Review where we are
- 4. Methodology and Sources
- 5. Results/Status of revenue projections by agency/source
  - Federal vs. State Funding Trend
  - > FDOT Projections
  - Turnpike/HEFT Projections
  - MDX Projections
  - MDT/Public Works Projections
  - South Florida Regional Transportation Authority
- 6. Managed Lanes and Private Sector Financing



# The environment for long range financial planning

- 10 extensions of SAFETEA-LU since it expired in 2009
- MAP-21 funded surface transportation for fiscal years 2013 and 2014 only; focus on state of good repair, performance, and safety
- Highway Trust Fund continuous problems with solvency, no change in federal gas tax since 1993
- Increased fuel-efficiency of vehicles, potential for electric vehicles in the long term?





# 2035 vs 2040 Update

- 2035 Update performed in 2009 or on the onset of the financial crisis
  - It was hard to plan for 2035 when it was not clear what 2010 would look like
- 2040 Update revenues numbers are improving
  - We are past difficult 2008-2010, but slow recovery
  - Spending cuts debates in Washington
- Both 2035 and 2040 Plans are Year-of-Expenditure (YOE) Forecasts





### **Financial Resources Review - Phases**

- Phase 1: Review and Projection of Existing Funding Sources
  - FDOT, Turnpike, MDX, Public Works, MDT, SFRTA
    - Still waiting for local tax revenue data (fuel taxes, impact fees, other) from the County's Budget Office
- Phase 2: Review and Projection of <u>Alternative/Potential</u> Funding Sources
  - Managed lanes revenue potential
  - Identifying P3 candidate projects and forecasting potential private revenue
- Financial Resources Review and Update Report





# **Methodology and Sources**



- Forecast period: FY19-FY40
  - FDOT provided estimates of state and federal funds for Miami-Dade Metro
     Area through FY40
  - MDX provided 15-yr projections of revenues, expenditures, existing debt service
  - Turnpike provided 10-yr projections of HEFT toll revenues, system-wide expenditures and existing debt service
  - County Budget Office MDT and Public Works operating budget pro forma only
- Explicit provision for annual spending on R&R (based on past history)
- In addition to annual net revenues forecast, 2040 Update estimates agencies' post FY18 debt bearing capacity
  - We first estimate annual net revenue cashflows, than the NPV of these cashflows which represent the potential scope for new bonding
  - Net Revenue = Gross Revenue O&M and R&R Expense Existing Debt Service



# **Federal vs State Funding Trend**



29-Year Total

254.857

- The funding mix is projected to change
- Both 2035 and 2040 FDOT projections show State's share increasing
- FDOT's 2040 statewide revenue forecast is on par with the 2035 forecast

Source	2014-15	2016-20	2021-25	2026-30	2031-35	2036-2040	27-Year Tota
Federal	5,113	9,542	9,687	9,719	9,664	9,664	53,389
	31%	27%	26%	24%	23%	22%	25%
State	9,711	22,243	25,084	27,616	29,658	31,119	145,430
	59%	64%	67%	69%	70%	70%	67%
Turnpike	1,680	3,044	2,745	2,931	3,200	3,410	17,011
	10%	9%	7%	7%	8%	8%	8%
Total	16,505	34,829	37,516	40,266	42,522	44,193	215,830

(source: FDOT 2035 Revenue Forecast Handbook)



2035 LRTP Projection

# **FDOT 2040 Update**



	FDOT	Capacity Progra	m Revenue Fore	ecast FY 2014 - 2	2040
			s for Miami-Dade		
		(Mill	ions of YOE Dolla	ars)	
Capacity Program Areas	FY 2019-20	FY 2021-25	FY 2026-30	FY 2031-40	22-Year
oupdoity i regium / irous	Subtotal	Subtotal	Subtotal	Subtotal	Total
Other Arterial Construction/ROW*	\$192	\$429	\$405	\$887	<b>\$1,91</b> 3
Transit	\$94	\$241	\$253	\$531	<b>\$1,119</b>
Total Capacity Programs	\$286	<b>\$</b> 670 <b>\$</b> 659		<b>\$1,418</b>	\$3,032
TMA Funds	\$67	\$168	\$168	\$336	\$739
Districtwide Transportation Altenatives (TALT) Funds	\$6	\$16	\$16	\$32	\$71
Districtwide TRIP Funds	\$1	\$6	\$6	\$13	\$26
TOTAL	\$360	\$860	\$849	\$1,798	\$3,867
* May be supplemented with TMA Funds					

# **FDOT 2035 Update**



	FDOT Capacity Program Revenue Forecast FY 2015 - 2035											
		. , .	s for Miami-Dad									
		(Millions of YOE Dollars)										
Consite Design	FY 2015	FY 2016-20	FY 2021-25	21-Year								
Capacity Program Areas	Subtotal	Subtotal	Subtotal	Subtotal	Total							
Other Arterial Construction/ROW	\$58	\$58 \$355 \$39 \$12 \$58 \$5		\$892	\$1,702							
Transit	\$12			\$103	\$230							
Total Capacity Programs	\$70	\$412	\$456	\$995	\$1,932							
TMA Funds	\$46	\$243	\$257	\$531	\$1,077							
Districtwide TRIP Funds	\$17	\$77	\$74	<b>\$149</b>	\$317							
Port of Miami Tunnel & SR- 836/I-95	\$0	\$325	\$798	\$1,596	\$2,720							
TOTAL	\$133	<b>\$1,058</b>	<b>\$1,585</b>	\$3,270	\$6,046							



Excluding Port of Miami Tunnel and SR-836/I-95 the Total will come to \$3,327 million

#### **FDOT Estimates 2040 vs 2035**



- Total projected funding for capacity program areas increased by about a billion dollars
- Funding for transit capacity programs increased substantially
  - 2035 21-yr Total Transit Capacity Programs \$230 million
  - 2040 22-yr Total Transit Capacity Programs \$1,119 million
  - 2040 FDOT 22-yr Total for New Starts \$760 million
    - FDOT New Starts Program provides a match of the local (non-federal) share of project costs for transit fixed-guideway projects that qualify under the FTA New Starts Program
- TMA and Districtwide TRIP Funds are down significantly
- Overall funding level forecast (excluding Port of Miami-Tunnel and SR-836/I-95 included in 2035 Update) increased by about \$540 million dollars



# Florida New Starts Projects included in FTA FY14 Funding Recommendations Report



				Commuter Rail Transit – Initial	
	Wave	BRT Southeast	JTA BRT North	Operating	SunRail Phase
	Streetcar/	Corridor/	Corridor/	Segment/	2 South/
(million \$)	Fort Lauderdale	Jacksonville	Jacksonville	Orlando	Orlando
FTA New Starts	49.7	19.1	26.8	178.6	92.5
TIGER	18.0				
FHWA STP	3.5				
FDOT NewStarts	35.7	2.4	3.4	89.3	46.3
Volusia County State Infrastructure Bank Loan (SIB)				6.6	2.9
City of Orlando State Infrastructure Bank Loan (SIB)				13.5	
Seminole County Sales Tax Funds				45.6	
JTA Local Discretionary Gas and Sales Tax Funds		2.4	3.4		
City of Fort Lauderdale Cash and Land Contribution	10.5				
Orange County General Fund				23.7	16.3
Osceola County General Fund					27.1
SFRTA General Fund	4.6				
Capital Lease Proceeds					71.0
Special Assessment District (SAD)	20.6				
Total	143	24	33	357	256
FDOT New Starts, % of total	25%	10%	10%	25%	18%

- FDOT 22-yr Total statewide projection for the for New Starts \$760 million
- FDOT New Starts Program provides a match for the local (non-federal) share of costs for transit fixed-guideway projects that qualify under the FTA New Starts Program

# Turnpike (HEFT) - 2035 Update Methodology



- Toll revenue compounded annual growth of 1% (FY09-FY19)
  - The projections included a negative growth (-5.9%) in revenue in 2009-2010, recovery to 2% growth starting 2015
- FY19-FY40: growth continues at 2% annually
- HEFT related O&M expenses compounded annual growth (FY09-FY19) of
   2.3%
  - O&M growth projections reflected lower inflationary pressure in early years with a steady growth in O&M costs of 3% post FY15
- FY19-FY40: growth continues at 3% annually
- Debt Service Coverage assumed constant at 1.6 during the forecast period
- Annual Net Cashflow was derived as:
  - Revenue Available for Capital = HEFT Gross Toll Revenue HEFT share in Total O&M Expense – Estimated Debt Service



# Turnpike (HEFT) - 2040 Update Methodology



- Turnpike 2013 Bond Statement projections for FY13-FY23:
  - FTE Total Toll Revenues compounded annual growth is 3% and O&M projected growth is 1% [optimistic]
- FY12 Turnpike CAFR:
  - FY06-FY12 Total toll revenues growth was negative 0.6% (-0.6%), and O&M growth was 1.6%.
  - CAFR based (audited) historic O&M expenses are growing at a higher rate than revenues.
- After discussion with FTE, post FY23 growth is assumed, <u>conservatively</u>: 2.5% for revenue growth and 3% for O&M. This is also in line with FDOT inflation projections.



# **Turnpike (HEFT) – 2040 Update Cont'd**



- FTE Toll Revenues Forecast for FY14:
  - HEFT Toll Revenue \$149 million
  - Systemwide Toll Revenue \$750 million and O&M \$179.5 million
  - HEFT accounts for 20% of FTE toll revenue and systemwide O&M costs
- Annual Net Cashflow was derived as:
  - NPV (Net Revenue Cashflows) = Gross Toll Revenue HEFT share of O&M Expense – Provision for Replacement & Renewal – HEFT share in Total Debt Service until maturity
- R&R is assumed \$55 million annually



# Turnpike (HEFT) – Revenue Available for Capital



2040 HEFT Net Revenue projections are higher then in 2035 Update, capacity exists for at least \$470 in new debt in 2019 which can finance capital improvements FY19-FY40. This debt could be serviced by the Net Revenues projected FY19-FY40. As Turnpike's existing debt matures and annual debt service decreases from \$245 million (FY13) to \$29 million (FY40), the net revenues become available for servicing new debt

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	Turi	npike Net Rev	enue Forecas	t FY 2019 - 20	040	
			<b>HEFT Only</b>			
		(Millio	ons of YOE Do	llars)		
	FY 2019-20	FY 2021-25	FY 2026-30	FY 2031-35	FY 2036-40	27-Year
	Subtotal	Subtotal	Subtotal	Subtotal	Subtotal	Total
Gross Toll Revenues	\$341	\$931	\$1,053	\$1,191	\$1,348	\$4,864
Estimated Share of O&M Expenses	\$84	\$234	\$272	\$315	\$365	\$1,271
Renewals and Replacements	(\$129)	(\$359)	(\$416)	(\$483)	(\$560)	(\$1,947)
Estimated Share of Debt Service	(\$95)	(\$202)	(\$157)	(\$121)	(\$63)	(\$638)
Net Revenues	\$32	<b>\$135</b>	\$208	\$273	\$361	\$1,009
NPV of Net Revenues at 6% discount rate	\$470					
2035 LRTP Projection	\$31	\$77	\$77	<b>\$</b> 75		



# Turnpike (HEFT) – 2035 update for comparison



		·	HEFT	Forecast FY 20 Only YOE Dollars)	14 - 2035	
	FY 2014-15 Subtotal	FY 2016- 20 Subtotal	FY 2021- 25 Subtotal	FY 2026-30 Subtotal	FY 2031- 35 Subtotal	22 Year Total
Gross Toll Revenues	\$199	\$532	\$587	\$647	\$713	\$2,678
Estimated Share of O&M Expenses	\$120	\$329	\$382	\$443	\$513	\$1,786
Net Revenues	\$79	\$203	\$205	\$204	\$200	\$892
Estimated Share of Debt Service	\$50	\$127	\$128	\$128	\$125	\$557
Revenues Available for Capital	\$30	\$76	\$77	\$77	\$75	\$334

#### Notes:

- (1) O&M and Debt Service line items do not represent Florida Turnpike Enterprise projections. These figures are developed by the MPO and used only for LRTP development.
- (2) Revenue and expense projections beyond 2019 are also developed by the MPO based on average growth rates and are used only for LRTP development.
- (3) Expenditures on mandatory resurfacing and rehabilitation ("3R") projects are not included and would occur before any expansion projects.



# Miami-Dade Expressway (MDX) - 2040 Update



- MDX provided 15-yr projections of toll & other revenues,
   O&M expenses, and existing debt service until maturity
- Growth projections discussed with MDX: post FY27 O&M annual growth assumed at 3%, revenue growth at 2.5% respectively
- MDX plans to issue \$550 million in debt to finance WP FY14-18 was factored into the analysis i.e. resulting debt service was deducted from gross revenues
- MDX provided FY20-FY24 R&R cost for bridge work, post FY24 R&R costs assumed at \$6 million annually (which is an average of MDX FY09-FY15 spending according to existing R&R Plan), R&R cost growth at 3% post FY24



# **MDX – 2040 Projections**



Annual Net Cashflow was derived as:

NPV (Net Revenues) = Gross Toll and Interest Revenue – O&M Expense – Provision for Replacement & Renewal – Debt Service

			MDX Net	Revenue For	ecast FY 2019	9 - 2040						
			(Millions of YOE Dollars)									
l		FY 2019-20	FY 2021-25	FY 2026-30	FY 2031-35	FY 2036-40	27-Year					
li_		Subtotal	Subtotal	Subtotal	Subtotal	Subtotal	Total					
	Gross Toll Revenues and Interest Earnings	\$444	1,212	\$1,391	\$1,589	\$1,816	\$4,636					
	Total Operations & Maintenance Expenses	\$99	\$277	\$325	\$377	\$437	\$1,078					
	Renewal and Replacement	\$10	\$71	\$33	\$38	\$44	\$152					
	Total Debt Service	\$247	\$623	\$633	\$623	\$618	\$2,126					
	Net Revenues	\$88	\$240	\$401	<b>\$</b> 552	<b>\$717</b>	\$1,281					

FY 2019 NPV of Net Revenues at 6% discount rate \$933



# **MDX – 2035 Projections**



- 2035 projections did not include the debt service expense and R&R costs, hence net revenues were overestimated
- Post FY22 Gross Revenues was assumed to grow at 1.4% annually through FY35, Post FY22 O&M expense – at 3.5%

•		MDX Net Revenue Forecast FY 2014 - 2035									
				(Millions of \	(OE Dollars)						
		FY 2014-	FY 2016-	FY 2021-	FY 2021- FY 2026- FY 203						
		15	20	25	30	35	22 Year Total				
li.		Subtotal	Subtotal	Subtotal	Subtotal	Subtotal	Total				
	Gross Toll Revenues and Interest Earnings	\$341	\$896	\$969	\$1,040	\$1,117	\$4,363				
	Total Operations & Maintenance Expenses	\$101	\$292	\$358	\$428	\$505	\$1,685				
	Net Revenues Available for Capital	\$240	\$604	\$611	\$612	\$612	\$2,678				



# **MDT 2014 Pro Forma – Operating**



	Miami-D	Dade Transit (MDT	) Operating Rever	nue & Expense Fo	recast FY 2019 - 2	040
		·	(Millions of Y	DE Dollars)		
	FY 2019-20	FY 2021-25	FY 2026-30	FY 2031-35	FY 2036-40	27-Year
	Subtotal	Subtotal	Subtotal	Subtotal	Subtotal	Total
Revenue						
Operating Revenues (Farebox and other)	\$290.12	\$828	\$961	\$1,102	\$1,347	\$4,529
Federal Grants	\$132.67	\$362	\$409	\$463	\$524	\$1,891
State Grants	\$74.95	\$199	\$216	\$236	\$257	\$983
PTP Surtax	\$502.21	\$1,467	\$1,825	\$2,268	\$2,826	\$8,887
Miami Dade MOE (3.5 Percent)	\$405.73	\$1,145	\$1,360	\$1,616	\$1,919	\$6,446
Additional Local Revenue or Service Cut*	\$133.06	\$384	\$456	\$541	\$643	\$2,157
CI-LOGT (3 Cents)	\$35.92	\$91	\$94	\$96	\$98	\$416
SFRTA PMT	\$1.33	\$3	\$3	\$3	\$3	\$15
Capital Reimbursements	\$10.99	\$33	\$42	\$53	\$68	\$206
Total Operating Revenues	<b>\$1</b> ,586.97	<b>\$4</b> ,5 <b>1</b> 3	\$5,366	\$6,378	\$7,686	\$25,529
Expenses						
Existing System O&M						
SFRTA Contribution	\$1,121.07	\$3,119	\$3,643	\$4,267	\$5,010	\$17,159
Municipal Contribution	\$8.47	\$21	\$21	\$21	\$21	\$93
Other Expenses	\$115.51	\$337	\$420	\$522	\$650	\$2,044
Debt Service - Debt Prior to FY19	\$290.81	\$747	\$748	\$748	\$719	\$3,253
New Debt Service - Debt issued FY19 & after	\$0.00	\$74	\$256	\$542	<b>\$844</b>	<b>\$1,715</b>
Debt Service-Bus Replacement & Rezoning Bonds	\$28.74	\$69	\$20	\$4	\$4	\$126
Total Operating Expenses	<b>\$1</b> ,586.95	\$4,442	<b>\$5,214</b>	\$6,250	<b>\$7,446</b>	\$24,940
Total Revenues net of Expenses	\$0.02	\$70.82	<b>\$151.91</b>	\$127.60	\$239.19	\$589.54

### **MDT 2014 Pro Forma**



- MDT already projected its long-range financing program FY14-FY38; the debt service on the existing and new debt is shown in the operating budget forecast in the previous slide
- MDT's FY14 Pro Forma Plan included about \$2.55
   billion in new debt post FY18 for projects FY19-FY40



### **SFRTA (Tri-Rail)**



- SFRTA 72-mile commuter rail services Broward,
   Miami-Dade, and Palm Beach Counties
- Funded by fares, subsidies provided by FDOT, FTA, & counties serviced by the SFRTA.
- Dec 2009, FDOT awarded the SFRTA a dedicated funding source from the State Transportation Trust Fund in the amount of approximately \$13.3 million to support its operations and expansion.



# **South Florida Regional Transportation Authority (SFRTA)**



South Florida Regional Transportation Authority										
FY 2013-2014 Operating	g Bu	ıdget								
		Proposed	%							
Source		Budget	%							
<u>Train Revenue</u>										
Train Service Revenue	\$	12,289,106	16.3%							
Interest Income/ Other Income		325,000	0.4%							
Total Train Revenue	\$	12,614,106	16.7%							
Operating Assistance										
Statutory Dedicated Funding		13,300,000	17.7%							
Statutory Operating Assistance		17,300,000	23.0%							
FTA Planning Grant		1,700,000	2.3%							
FTA Preventative Maintenance		20,472,940	27.2%							
FTA Designated Recipient Fees		618,000	0.8%							
FTA JARC/NF Program Fees		46,897	0.1%							
FTA JARC/NF Program Match		373,725	0.5%							
FHWA		4,000,000	5.3%							
Miami-Dade Statutory Operating Assistance		1,565,000	2.1%							
Broward Statutory Operating Assistance		1,565,000	2.1%							
Palm Beach Statutory Operating Assistance		1,565,000	2.1%							
Other Local Funding		194,738	0.3%							
Total Assistance	\$	62,701,300	83.3%							
Total Revenue	\$	75,315,406	100.0%							

- The operating budget is largely financed through operating assistance (FDOT, FTA and Counties' contributions of about 1.6 million)
- Authority shows limited debt on its books (FY14 CAFR) and "zero" amount of bonded debt

Source: SFRTA website

# **SFRTA** (capital budget in constant \$)



# South Florida Regional Transportation Authority FY 2013-2014

Capital Revenue Budget and Five-Year Plan

					Fiv	/e-Year Plan					
	F	Y 2014-2015	F	Y2015-2016	F	/ 2016-2017	F	Y2017-2018	FY 2018-2019		
Source		Projected		Projected		Projected		Projected		Projected	Total
FTA Section 5307 - Formula Funds	\$	13,000,000	\$	13,000,000	\$	13,000,000	\$	13,000,000	\$	13,000,000	\$ 65,000,000
FTA Section 5307 - Flex Funds											\$ -
FTA Section 5307 - STP Flex Funds											\$ -
FTA Section 5309 - Rail Mod.		9,000,000		9,000,000		9,000,000		9,000,000		9,000,000	\$ 45,000,000
FTA Section 5309 - Safetea (Earmark)											\$ -
FTA Section 5308 - Tigger Funds											\$ -
FTA Section - Tiger Funds											\$ -
FTA Section 5317 - New Freedom											\$ -
American Recovery & Reinvestment Act											\$ -
FDOT GMR Funds						1,500,000		5,900,000			\$ 7,400,000
FDOT JPA's		4,277,293									\$ 4,277,293
FDOT Trip Funds								6,000,000			\$ 6,000,000
MPO Funds				8,840,000				8,000,000			\$ 16,840,000
City of Ft. Lauderdale											\$ -
Taxing District											\$ -
Rotem Credit											\$ -
County Gas Tax		8,010,000		8,010,000		8,010,000		8,010,000		8,010,000	\$ 40,050,000
Total Capital Revenues	\$	34,287,293	\$	38,850,000	\$	31,510,000	\$	49,910,000	\$	30,010,000	\$ 184,567,293

The Capital Program is financed largely by FDOT and FTA with some capital coming from County Gas Tax

Source: SFRTA website

# **Private Sector Funding & Financing**



- Managed Lanes
- Concessions
  - Highway concessions based on revenue-generating potential of tolls
  - Transit concession based on subsidy minimization and availability payments (like Port Tunnel project)
- Joint Development
  - Air rights, station development, parking
  - ROW and other in-kind donations



# Forecasting managed lanes revenue

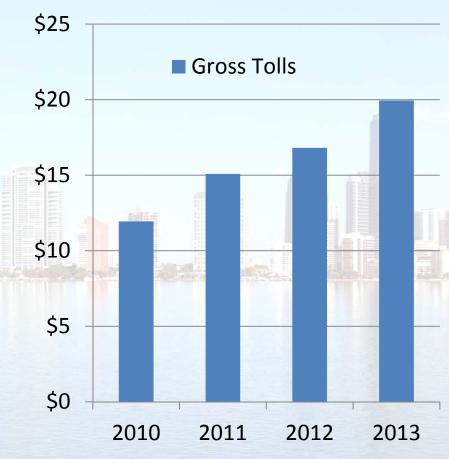


- 95-Express: the only managed lanes project in operation today in Miami-Dade County
- 95-Express Phase 1 Compete, Phase 2 in progress
- Additional meeting with Turnpike, FDOT, MPO and MDX to discuss any plans to add managed lanes



# 95 Express: 2010-2013 Gross Toll Revenue (millions \$)





- Phase 1 Capex \$132
  million (Funded by
  USDOT, Florida State,
  FDOT, Tolls) under DesignBuild-Finance
- 2013 Toll Revenue is estimated based on January-August monthly revenue reports

#### Source:

http://www.sunguide.info/sunguide/index.php/tmc reports and http://www.95express.com/faq/about-95-express

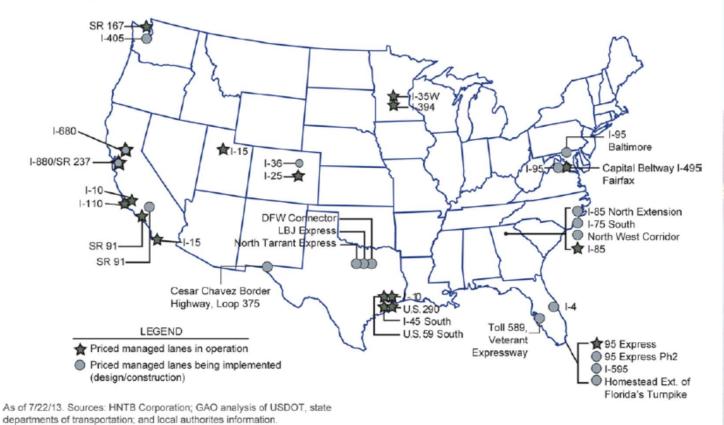


# **Managed Lanes Across the US**



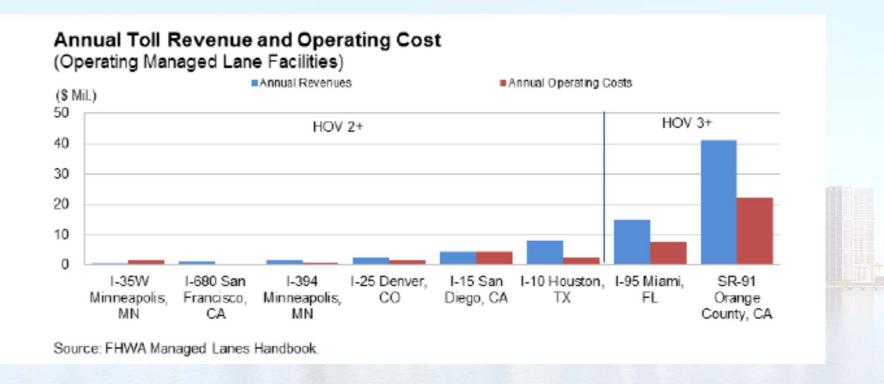
# Fitch Ratings Global Infrastructure & Project Finance

#### **Priced Managed Lanes Across the United States**



# **Managed Lanes Across the US**





Source: FitchRatings report on U.S. Managed Lanes, November 2013



# **Draft Financial Revenue Projections**



# **Questions / Comments**



### **Needs Assessment/Evaluation Process**

- Needs Assessment
  - Mobility Needs Assessment Tool (MNAT application)
  - Analysis of agency master plan projects
- Needs Plan Evaluation (project level)
  - Goal Scales
  - Goal Elements
  - Project Status
- Scenario Evaluation (system level)
  - MOE application





# **Agency Input**

- Master Plans/2035 LRTP projects review and GIS data
- Project evaluation GIS data
- Mobility needs workshop







# **Mobility Needs Schedule (MNAT application)**

- Define Corridors (December 2013)
- Establish Screenline locations (December 2013)
- Populate MNAT (January 2013)
- Workshop MNAT (February 2013)
- Define project limits (February 2013)





# **Next Steps**

- MPO Board adoption of LRTP Goals and Objectives
- Needs Assessment
- Needs Plan Evaluation
- Public Involvement
- Development of Cost Feasible Plan





### **Miami-Dade 2040 LRTP**

# **Questions / Comments**

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