# **SIS Policy & Implementation**

Performance Planning & Programming (before it was cool)

presented by Carl Mikyska, Florida MPO Advisory Council

October 25, 2017









### SIS established in 2003

- Enhance Florida's economic competitiveness
- Focus resources on facilities most critical for statewide and interregional travel
- Initial SIS designation criteria

### SIS facilities

- Two system components: SIS facilities, Emerging SIS facilities
- Types of facilities: hubs, corridors, connectors
- Comprise state's largest and most strategic air, space, water, rail, transit and highway facilities
- Primary means for moving people and freight





- 2000 Initial call for development of the SIS
- 2002 41-member Steering Committee defines policy framework
- 2003 Governor and Legislature establish the SIS and authorize designation of initial facilities as proposed
- 2004 Governor and Legislature enact framework for funding future SIS improvements; first projects funded
- 2005 Governor and Legislature provide recurring funding for SIS projects; first SIS Strategic Plan adopted
- 2010 SIS Strategic Plan updated
- 2016 SIS Policy Plan updated





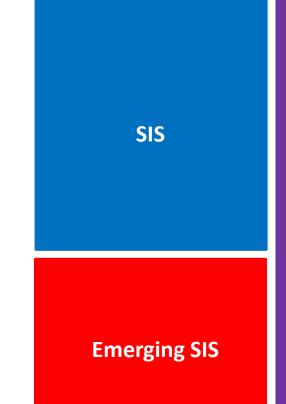
 Help meet growing demand for moving people and freight

Existing SIS Structure

Link Florida's economic regions

 Enhance Florida's competitiveness as a global trade hub

 Make strategic choices for transportation investments within financial constraints







- SIS Airports: 20
- SIS Spaceports: 2\*
- SIS Seaports: 12\*
- SIS Intermodal Logistic Center: 1\*
- SIS Freight Terminals: 8\*
- SIS Passenger Terminals: 20\*
- SIS Urban Fixed Guideway Stations: 36\*
- SIS Highway Miles: 4881\*
- SIS Railroad Miles: 2325\*
- SIS Waterway Miles: 1986\*

\*Planned Add facilities included.







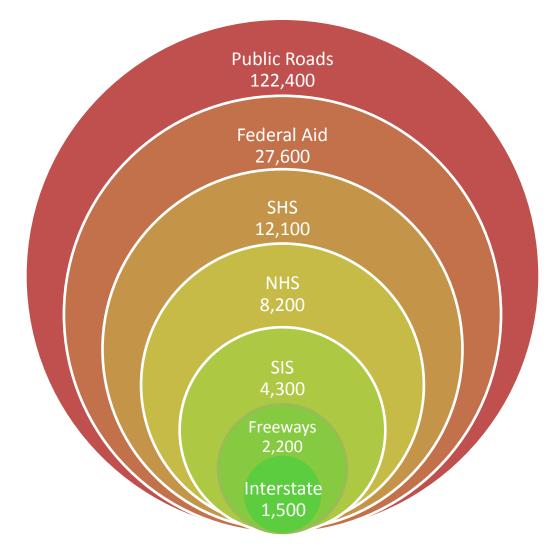
- 54 percent of all traffic and 70 percent of all truck traffic on the State Highway System although the highway portion of the SIS represents only 3 percent of the total road mileage in the state;
- More than 99 percent of all airport passengers enplanements in Florida, and 99 percent of originating and terminating air cargo tonnage;
- 99 percent of all waterborne freight tonnage and virtually all home-port cruise passengers;
- 89 percent of interregional rail and bus passengers;
- Nearly all freight moving via rail; and,
- All waterborne freight on coastal and intracoastal shipping routes and 66% of waterborne freight on inland interregional waterways.







# Florida Roadway Mileages (Rounded)







- At least 50% of funding (policy set at 75%);
- 80% of Lane Miles Good or better (at 93%)
- 90% of Bridges Good or better (at 99%)

- Increasing Transportation Budgets
  - \$2 Billion Federal
  - \$12 Billion from all sources
  - \$82 Billion Annual State Budget



### 2016 Performance Summit





Opening (May 10)

### **Brian Blanchard**

Assistant Secretary FDOT



Preservation (May 11)

### James Cromar

**Broward MPO** 



Jim Warren

**Asphalt Contractors Association** 



Chris Cochran

Pinellas Suncoast Transit Authority

Mobility (May 10)

### Beth Alden

Jim Wood

Hillsborough MPO



Environment May 12)

Chris Stahl Department of **Environmental Protection** 



### **Brad Thoburn**

Jacksonville Transportation Authorit

State Transportation Planning Administrator



Sam Poole

Urban Land Institute



**PINELLAS SUNCOAST** 

### Michael Stewart

Jacksonville Aviation Authority



Julie Dudley

FL Department of Health



**Economy** (May 11)

### Mark Bontrager

Space Florida



Safety (May 12)

James Hightower Department of Highway Safety and Motor Vehicles



### Tisha Keller

Florida Trucking Association



**Steve Myers** Lee Tran



### Natacha Yacinthe

Port Everglades



Don Scott

Lee MPO



# Safety

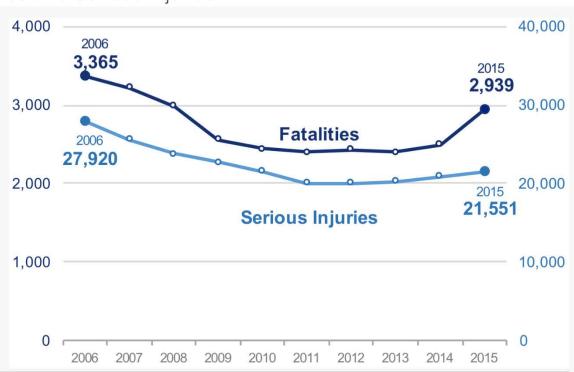




### **PERFORMANCE \ SAFETY \ Fatalities and Serious Injuries**

# Fatalities and Serious Injuries continue to increase.

Between 2014 and 2015 fatalities increased 17.8% and serious injuries by 3.1%



# **Mobility**

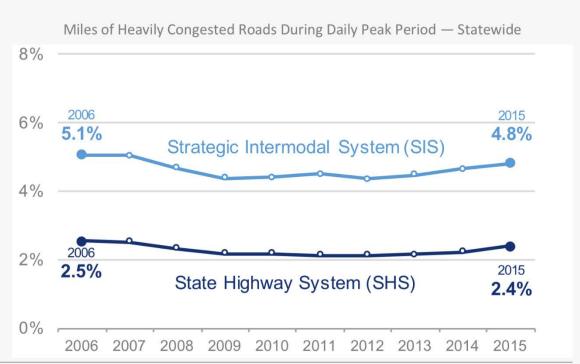




### **PERFORMANCE \ MOBILITY \** Utilization – Congestion

The percentage of heavily congested roads has been fairly level over the past decade.

Recent increases speak to the importance of increasing system capacity, improving operating efficiency, and providing transportation choices.



# Florida Performance Measures Workshops



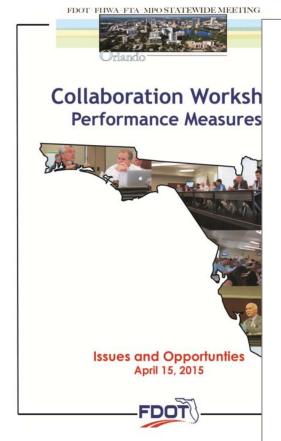




Collaboration Workshop
MAP-21 Performance Measu
April 3, 2014









# Purpose of MPO Pilot





Add data for 4 MPOs to FDOT statewide annual 'National Measures' report for Florida Congressional Delegation:

Part of FDOT's efforts to collaborate on PM with state's MPOs

Review MPO-level performance results for FHWA measures

Compare statewide trends to MPO level patterns

Not intended to set targets; but consider implications for target setting

Give MPOs the ability to tell the story of transportation

### **MPO Pilots**



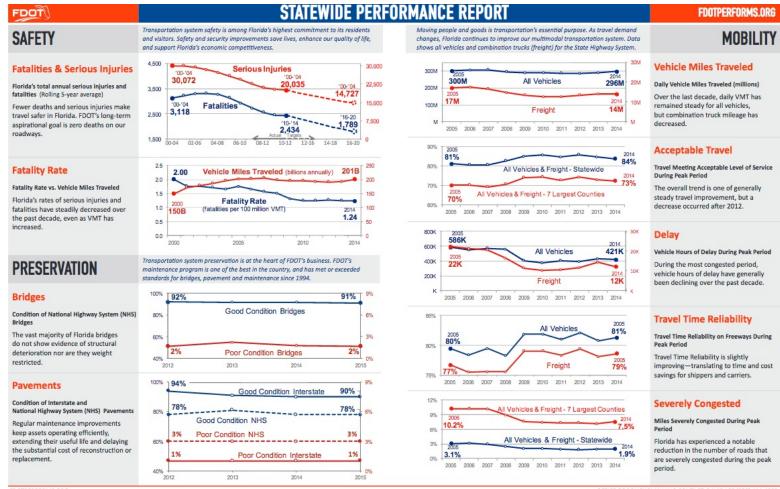


- Federal funds
- Total transportation budget
- Policy of maintenance first









FDOTPERFORMS.ORG OFFICE OF POLICY PLANNING CONTACT: DAVID LEE (850) 414-4802

# **Daily VMT in Pilot MPOs**





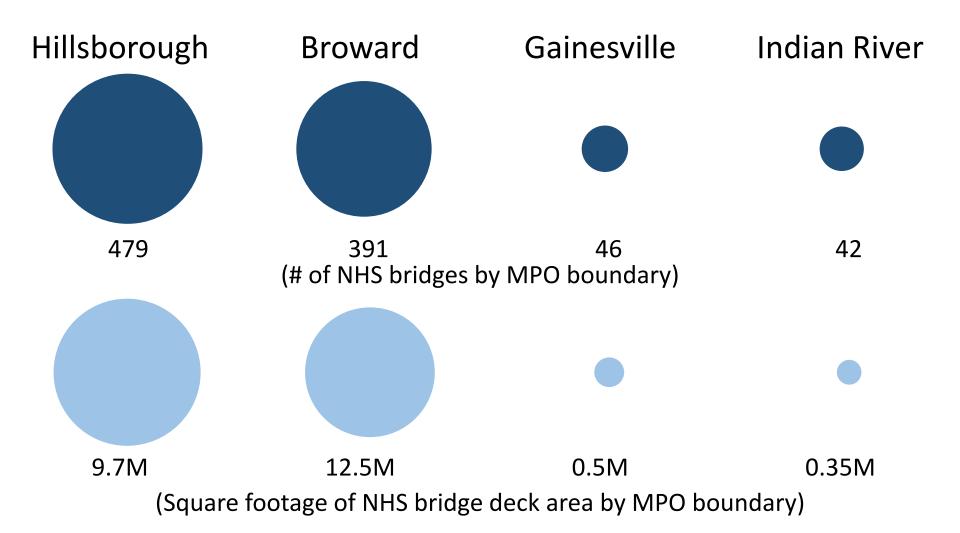
(2015 State Highway System Vehicle Miles Traveled by MPO/TPO Boundary)

# Hillsborough Broward Gainesville Indian River 21 Million VMT 4% large trucks 27 Million VMT 4% large trucks 28 Indian River 29 Indian River 20 Indian River 20 Indian River 20 Indian River 20 Indian River 21 Indian River 22 Indian River 23 Indian River 24 Indian River 25 Indian River 26 Indian River 26 Indian River 27 Indian River

# Pilot MPOs – NHS Bridges



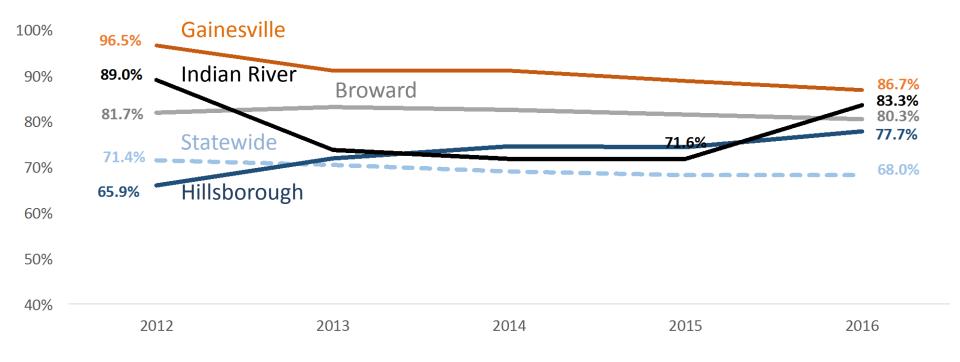




## NHS Bridge Deck Area in Good Conditions





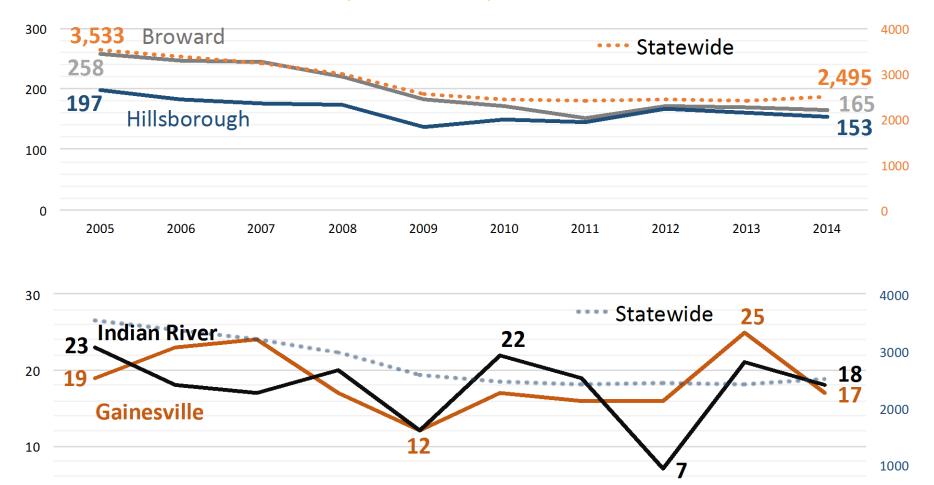


# **Total Fatalities (Year-by-Year)**





(All Public Roads)

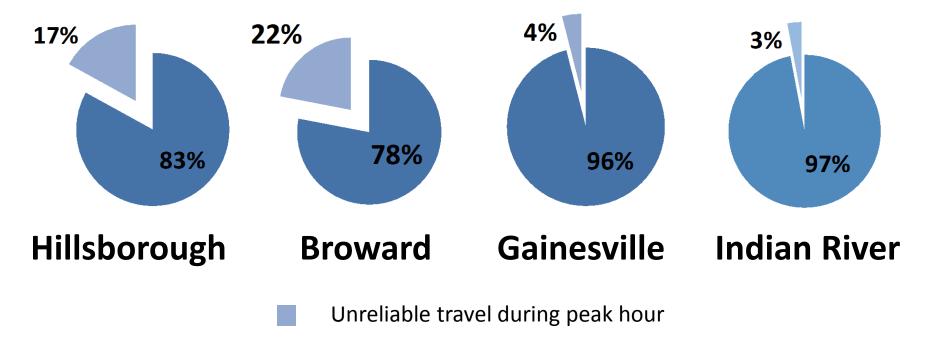


### **Peak Hour Travel Reliability**

(Freeways Inside MPO Boundary)







For seven largest counties travel time reliability is defined as the percentage of freeway trips traveling at least 45 mph.

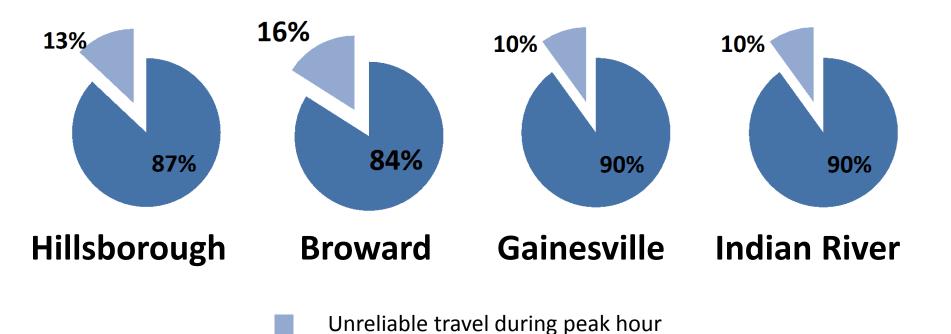
For all others travel time reliability is defined as the percentage of freeway trips travelling at greater than or equal to 5 mph below the posted speed limit.

# Peak Hour Truck Travel Reliability





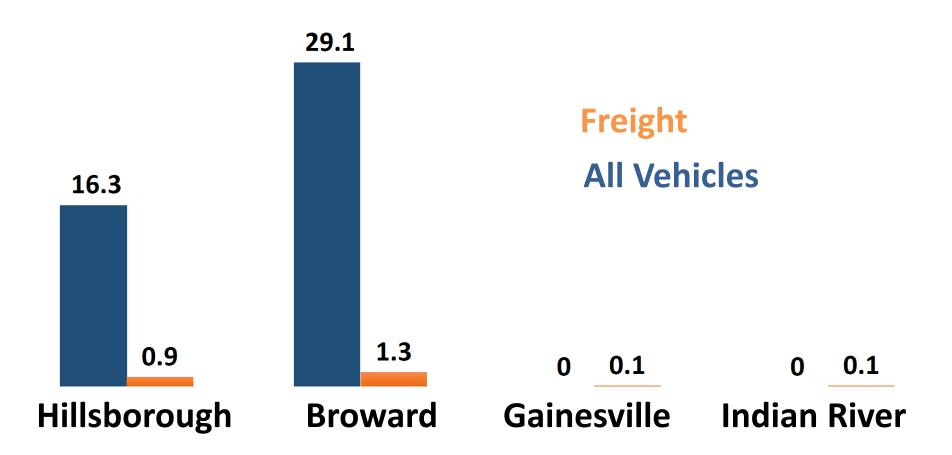
(Freeways Inside MPO Boundary)



For seven largest counties travel time reliability is defined as the percentage of freeway trips traveling at least 45 mph.

For all others travel time reliability is defined as the percentage of freeway trips travelling at greater than or equal to 5 mph below the posted speed limit.

# Other FDOT Mobility Measures Daily Hours of Vehicle Delay ('000s) (Freeways Inside MPO Boundary)



Delay is difference between threshold speed (LOS B) and travel time at average speed





# Perceived Keys to Success in Florida

Our (FDOT/MPO) joint coordination with a common approach

FHWA Headquarters quote

We (FDOT & MPOs) will comply with ultimate federal requirements

FDOT/MPOs can "use their own measures in performance-based planning"

- Florida can use measures and calculation techniques most relevant to us
  - Travel time reliability
  - Congestion
  - Multimodal
  - Other



Target establishment (conservative approach)



FDOT/ MPOs submit consistently and together

FDOT supply every MPO

- Federally required measures
- MPOAC agreed upon additional measures

# Statewide Mobility Performance Measures Team Purpose

To provide guidance and support to FDOT and the state's MPOs on **multimodal** mobility performance measures including reporting for internal and MAP-21 purposes

Consensus in approach and measures







# FDOT provides all MAP-21 measures

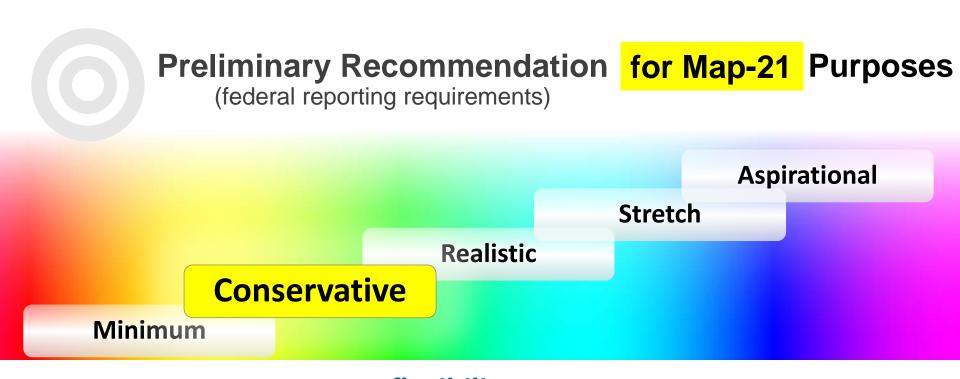
For the **state** as a whole & each **MPO** 

### Areawide groupings

- Urbanized boundaries
- Planning boundaries
- County boundaries
- Regional boundaries

### FDOT's Intent





Allows FDOT and MPOs most **flexibility** to use our current/evolving (③)

"Keep the Feds out of our business"; "set our internal targets to strive to do better"

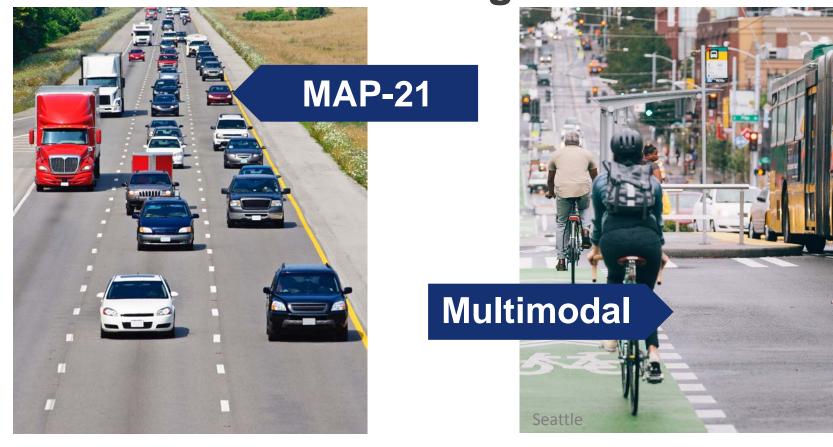
Use our own existing performance based planning processes

Highway and multimodal mobility performance measures

Allows more time to get our "feet wet"



# Be careful of MAP21 System Performance and Freight Measures





# Mobility Performance Measures MPOs Would Like FDOT to Supply



### **Networks**

**Areas** 

National Highway System

Interstate

SIS (Strategic Intermodal System)

State Highway System

Freeways

Non-Freeways (SHS)

Broward (Urbanized Area)										
	A: Daily vehicle B: Daily trud		C:Travel time		,			H: Percent		
	mile* ******	Imilas travalad	reliability in the	"Travel time	hours of delay	heavily	sidewalk	bicycle lane		
Networks/Measures	(Mill		.1	bility	(Thousands)	congested	coverage	coverage		
A: National Highway System	- Urr	anıze	d Area	3	66.9	13%				
B: Interstate		, a <u>_</u> _	G / C C	1.94	23.6	42%				
C: Strategic Intermodal System <sup>1</sup>	16.2	1.6	69%	1.83	31.5	25%				
D: State Highway System	26.3	2.0			73.5	14%				
E: Freeways	15.5	1.5	77%	1.76	26.8	26%				
F: Non-freeways (SHS)	10.8	0.5			46.7	9%	89.3%	42.7%		

Broward (MPO/TPO Boundary)											
			C:Travel time			of delay	heavily		H: Percent bicycle lane	accessibility within 30 minute car trip	J: Average job accessibility within 30 minute transit trip
Networks/Measures	(Mi	0/-06				sands)	congested	coverage	coverage	(Millions)	(Thousands)
A: National Highway System		()/IP(	) Bour	าศลทอง	ς	67.4	12%				
B: Interstate		$\mathcal{O}_{f}$ $\mathcal{C}$	Dog	iddi ic.	,	24.0	29%				
C: Strategic Intermodal System <sup>1</sup>	17.0	1./	/3%	1.65		32.0	19%			1.1	8.9
D: State Highway System	27.1	2.1				74.0	12%			1.1	0.5
E: Freeways	16.2	1.6	78%	1.72		27.2	21%				
F: Non-freeways (SHS) <sup>2</sup>	11.0	0.6				46.8	9%	89.3%	34.6%		
•		•					•			•	

Broward (County Boundary)										
	A: Daily vehicle	B: Daily truck	C:Travel time		,			H: Percent bicycle lane	accessibility within 30 minute car trip	J: Average job accessibility within 30 minute transit trip
Networks/Measures	(Mill Co.	unty D	aunda	rioc	(Thousands)	congested	coverage	coverage	(Millions)	(Thousands)
A: National Highway System	COL	JIILY D	Bounda	illes /	67.4	12%			4	4
B: Interstate		•		/	24.0	29%				4
C: Strategic Intermodal System <sup>1</sup>	17.0	1.7	73%	1.65	32.0	19%			1.1	8.9
D: State Highway System	27.1	2.1			74.0	12%			1.1	0.5
E: Freeways	16.2	1.6	78%	1.71	27.2	21%			4	4
F: Non-freeways (SHS) <sup>2</sup>	11.0	0.6			46.8	9%	89.3%	34.6%		



# **Primary and Secondary Measures**

Daily VMT	Daily	Travel	Travel	Daily	Percent	Percent	Percent	Average job	Average job
	Truck	Time	Time	vehicle	miles	sidewalk	bicycle	accessibility	accessibility
	miles	Reliability	Variability	hours of	heavily	coverage	lane	(Auto)	(Transit)
	traveled			delay	congested		coverage		

### Broward (MPO/TPO Boundary)

	miles traveled	miles traveled	C:Travel time reliability in the peak hour	D:Travel time	hours of delay	heavily	sidewalk	H: Percent bicycle lane	accessibility within 30 minute car trip	J: Average job accessibility within 30 minute transit trip (Thousands)
A: National Highway System	27.4	2.2			67.4	12%				
B: Interstate	11.2	1.1	71%	1.85	24.0	29%				
C: Strategic Intermodal System <sup>1</sup>	17.0	1.7	73%	1.65	32.0	19%			1.1	8.9
D: State Highway System	27.1	2.1			74.0	12%			1.1	0.5
E: Freeways	16.2	1.6	78%	1.72	27.2	21%				
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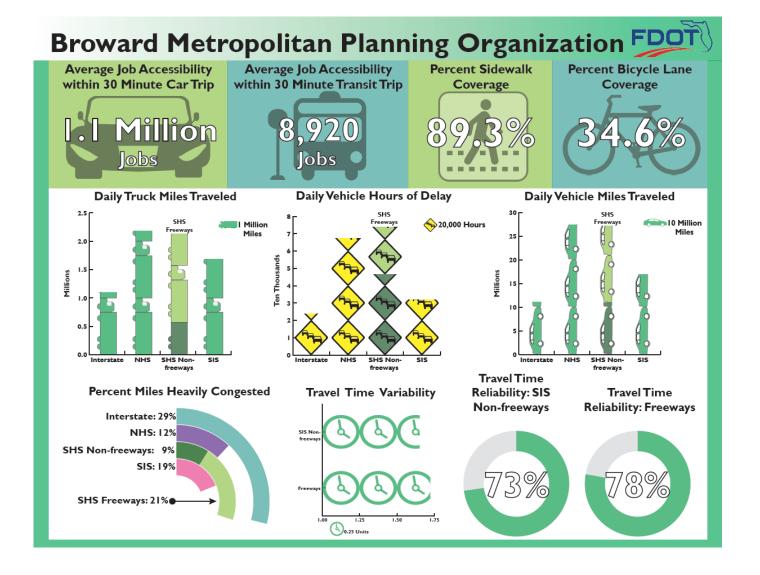
### In 2018:

Daily VMT	Daily	Travel	Travel	Daily	Percent	Person	Truck	Average	Percent of
	Truck	Time	Time	vehicle	miles	miles	Travel	Travel	travel
	miles	Reliability	Variability	hours of	heavily	traveled	Time	Speed	meeting LOS
	traveled			delay	congested		Reliability		criteria



# Sample Handout

Infographics





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