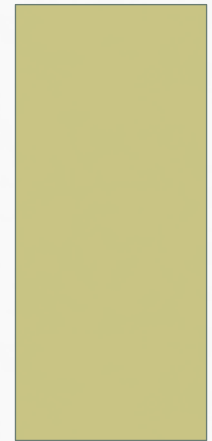




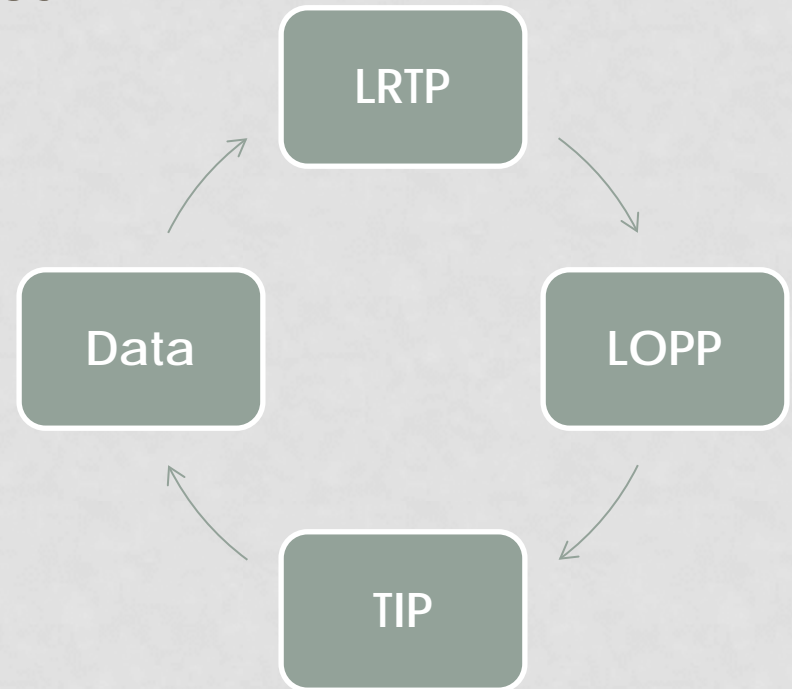
TRANSPORTATION PERFORMANCE MEASURES

*IMPLEMENTING PERFORMANCE MEASUREMENT
INTO R2CTPO PLANS AND PROGRAMS*



TRANSPORTATION PERFORMANCE MANAGEMENT (TPM)

- Intended to link investment policies and project programming decision-making.
- Meant to inform decisions & provide feedback on transportation system performance, agency operations and program outcomes.
- Should reflect priorities & demonstrate sound stewardship of resources.



TARGETS & REPORTS



State DOT's

- Establish measures, collect data, set targets, and report to FHWA for the state.

MPO's/TPO's

- Set targets, collect or use DOT data and incorporate into planning decisions & documents.

Measures

- PM-1: Safety (Update needed)
- PM-2: Asset Management
 - Bridge Condition
 - Pavement Condition
- PM-3: System Performance
 - Travel Time Reliability (Vehicle & Freight)
- Transit Asset Management

SYSTEM PERFORMANCE - PM²

NHS Bridge Condition Requirements & Statewide Analysis

- Used National Bridge Inventory (NBI) condition ratings
- NBI rating of 4 to 1, the bridge is classified as Poor
- NBI rating 7 to 9, the bridge is Good
- **72%** of the total NHS deck area is in **Good** condition
- Less than **1.0%** is in **Poor** condition
- Remaining **27%** of bridges are considered **Fair** under NBI

SYSTEM PERFORMANCE - PM²

NHS Bridge Condition

Statewide Target

FHWA Performance Measure	2yr Target	4yr Target	Reasoning
% of NHS bridges classified as in <i>Good</i> condition by deck area	≥ 50%	≥ 50%	Suggests no major investment is needed.
% of NHS bridges classified as in <i>Poor</i> condition by deck area	≤ 10%	≤ 10%	Suggests major investment is needed.

R2CTPO Deadline for 2-year target:
November 14, 2018

SYSTEM PERFORMANCE - PM2

NHS Bridge Condition

River to Sea TPO Planning Area				
Category	# of Bridges	Deck Area	% Deck Area	FDOT Target
Good	58	1,199,517	52%	≥ 50%
Poor	1	1,742.5	0.08%	≤ 10%
Total	99	2,300,461	100.0	

* 48% Bridges are rated Fair (40 bridges with total deck area of 1,099,201)

Recommend supporting FDOT targets

- Data and analysis completed by FDOT
- Bridge funding is directed by FDOT

SYSTEM PERFORMANCE - PM²

Pavement Condition Requirements

- Based on International Roughness Index (IRI), for cracking, rutting (for asphalt pavements) and faulting (for jointed concrete pavements)
- Evaluates 0.1- mile segment
- Segment is considered in **Good** condition if all three metrics are rated good;
- If two or more metrics are considered poor, the condition is **Poor**.
- Remaining segments are considered **Fair**

SYSTEM PERFORMANCE - PM2

Pavement Condition

Statewide Analysis & Target

FHWA Performance Measure	2yr Target	4yr Target	FDOT Statewide Measures
% of <i>Interstate</i> pavements in <i>Good</i> condition	n/a	≥ 60%	66%
% of <i>Interstate</i> pavements in <i>Poor</i> condition	n/a	≤ 5%	0.1%
% of <i>non-Interstate NHS</i> pavements in <i>Good</i> condition	≥ 40%	≥ 40%	45%
% of <i>non-Interstate NHS</i> pavements in <i>Poor</i> condition	≤ 5%	≤ 5%	0.4%

R2CTPO Deadline for 2-year target:
November 14, 2018

SYSTEM PERFORMANCE - PM²

Pavement Condition

River to Sea TPO Planning Area

FHWA Performance Measure	% Pavement
% of <i>Interstate</i> pavements in Good condition*	100
% of <i>Interstate</i> pavements in Poor condition*	0
% of <i>non-Interstate NHS</i> pavements in Good condition	100
% of <i>non-Interstate NHS</i> pavements in Poor condition	0

* 25% of lane miles with missing data

Recommend supporting FDOT targets

- Data and analysis completed by FDOT
- Resurfacing funding is directed by FDOT

SYSTEM PERFORMANCE - PM3

Travel Time Reliability (TTR)

Requirements

Performance Measure	A.K.A.	What it Measures
% of Person-Miles Traveled on the Interstate that are Reliable	Interstate Reliability	Seeks to assess how reliable the NHS network is by creating a ratio that compares the worst travel times on a road against the travel time typically experienced.
% of Person-Miles Traveled on the Non-Interstate NHS that are Reliable	Non-Interstate Reliability	
Truck Travel Time Reliability	Freight Reliability	Seeks to assess how reliable the interstate network is for trucks by creating a ratio that compares the worst travel times for trucks against the travel time typically experienced.

SYSTEM PERFORMANCE - PM3

Travel Time Reliability Statewide Analysis & Target

FHWA Performance Measure	2yr Target	4yr Target	FDOT Annual Performance
% of person-miles traveled on the Interstate that are reliable	75%	70%	82%
% of person-miles traveled on the non-Interstate NHS that are reliable	n/a	50%	84%
Truck travel time reliability ratio (TTR) on the Interstate*	1.75	2.0	1.43

* Higher values indicate poor reliability

**R2CTPO Deadline for 2-year target:
November 14, 2018**

SYSTEM PERFORMANCE - PM3

Travel Time Reliability (TTR)

River to Sea TPO Planning Area

Performance Measure	2014	2015	2016	2017	FDOT Targets
% of person-miles traveled on the Interstate that are reliable	100%	100%	100%	100%	75%
% of person-miles traveled on the non-Interstate NHS that are reliable	51%	47%	39%	89%	N/R
Truck travel time reliability ratio (TTR) on the Interstate	1.12	1.20	1.19	1.2	1.75

Recommend supporting FDOT targets

- Data and analysis completed by FDOT

TRANSIT ASSET MANAGEMENT (TAM) PLANS

Goal is to use the Transit Asset Management Plan to reach (or maintain) a State of Good Repair

- FDOT is developing TAM Plans for Tier 2 transit agencies
- Votran provided a draft plan
- FDOT provided draft language for the TIP

Asset Categories

- Equipment
- Rolling Stock
- Infrastructure
- Facilities

TRANSIT ASSET MANAGEMENT (TAM) PLANS

FTA Asset Class	Details	Performance Measure
Equipment	Non-revenue support-service and maintenance vehicles	% of non-revenue, support-service and maintenance vehicles that have met or exceeded their useful life benchmark (ULB)
Rolling Stock	Revenue Service Vehicles	% of revenue vehicles within a particular asset class that have met or exceeded their ULB
Infrastructure	<i>Rail</i> fixed-guideway track	% of track segments with performance restrictions
Facilities	Buildings and structures	% of facilities within an asset class rated below condition 3 on the TERM scale

TRANSIT ASSET MANAGEMENT (TAM) PLANS

Votran TAM Plan

Asset Category	% at or past ULB	Votran Target
Revenue Service Vehicles (Rolling Stock)	30%	23%
Equipment	96%	??
Infrastructure	N/A	N/A
Facilities	0%	10%

NOTE: TAM Plans & targets have not been provided by FDOT or SunRail

Recommend supporting Transit targets

- Data and analysis completed by FDOT or provider
- Transit funding is directed by transit providers

NEXT STEPS

- R2CTPO must incorporate these measures & targets into programming decisions (Call for Projects, TIP, LRTP)
- Approval of PM2 & PM3 targets & TIP amendment in October 2018 (to meet Nov. 14th deadline)
- FDOT must submit a baseline report to FHWA in October 2018
- FDOT must submit a 2-year interim update in 2020 that shows “significant” progress towards meeting goals
- More work is needed to produce consistent & reliable data (safety rates, TTR)

QUESTIONS?

THANK YOU

