LRTP 2045

STEERING COMMITTEE MEETING

November 16, 2018

Agenda

1. Introduction
2. Preliminary E+C Model Run
3. Performance Management Measures – Update
4. Bicycle/Pedestrian Plan – Update
5. Scenario Planning
6. Project Updates
7. Next Steps

Performance Management Update

David Henderson
TPO Intermodal Manager

Miami-Dade Transportation Planning Organization

What is Performance Management?

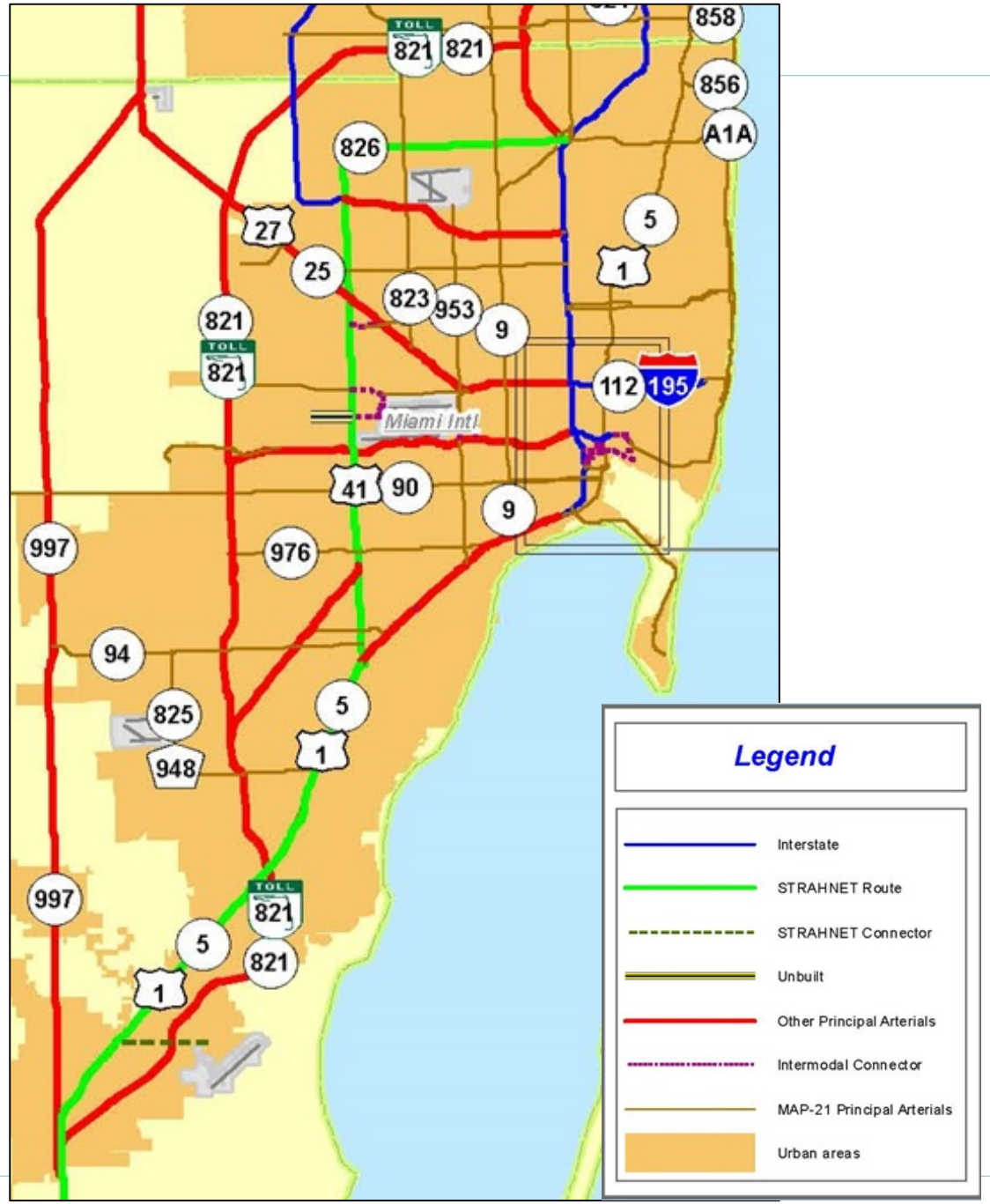
- Performance Management connects investment decisions and policy to help achieve strategic goals. Performance measures are quantitative criteria used to evaluate progress.

- Under MAP-21, states and MPOs link policy and funding decisions to help achieve key federal goals: Safety, Infrastructure, System Reliability and Freight Movement

Recent Activity

- DTPW and SFRTA Transit Asset Management Plans Released
- FDOT Submits 2019 Safety PM Targets (Vision Zero) to FHWA: Sept. 4, 2018
- TPO Establishes FDOT Targets for Bridge, Pavement and System Performance PMs: October 25, 2018

National Highway System



Pavement Condition, Bridge Condition, NHS Performance and Freight Movement Targets

Pavement Condition Performance Measures	2yr Target	4yr Target
% of Interstate pavements in Good condition	n/a	≥ 60%
% of Interstate pavements in Poor condition	n/a	≤ 5%
% of non-Interstate NHS pavements in Good condition	≥ 40%	≥ 40%
% of non-Interstate NHS pavements in Poor condition	≤ 5%	≤ 5%

Bridge Condition Performance Measures	2yr Target	4yr Target
% of NHS bridges classified as in Good condition by deck area	≥ 50%	≥ 50%
% of NHS bridges classified as in Poor condition by deck area	≤ 10%	≤ 10%

NHS and Freight Movement Performance Measures	2yr Target	4yr Target
% of person-miles traveled on the Interstate that are reliable	75%	70%
% of person-miles traveled on the non-Interstate NHS that are reliable	n/a	50%
Truck travel time reliability ratio (TTR) on the Interstate	1.75	2

Source: FDOT Initial TAMP Document: April 30, 2018 (rev)

Agenda Item 5.B.2

TPO RESOLUTION #44-18

RESOLUTION ESTABLISHING THE FLORIDA DEPARTMENT OF TRANSPORTATION'S PERFORMANCE MEASURE TARGETS FOR PAVEMENT CONDITION, BRIDGE CONDITION, NATIONAL HIGHWAY SYSTEM PERFORMANCE AND FREIGHT MOVEMENT

WHEREAS, the Interlocal Agreement creating and establishing the Miami-Dade Metropolitan Planning Organization (MPO), for the Miami Urbanized Area, now known as the Transportation Planning Organization (TPO), requires that the TPO provide a structure to evaluate the adequacy of the transportation planning and programming process; and

WHEREAS, the Transportation Planning Council (TPC) has been established and charged with the responsibility and duty of fulfilling the aforementioned functions; and

WHEREAS, the TPC has reviewed the Florida Department of Transportation's performance measure targets, made a part hereof, and finds it consistent with the goals and objectives of the Transportation Plan for the Miami Urbanized Area,

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE TRANSPORTATION PLANNING ORGANIZATION IN ITS ROLE AS THE MPO FOR THE MIAMI URBANIZED AREA, that the attached Florida Department of Transportation's performance measure targets for pavement condition, bridge condition, national highway system performance and freight movement, are hereby established.

The adoption of the foregoing resolution was moved by Board Member Jose "Pepe" Diaz. The motion was seconded by Board Member Rebeca Sosa, and upon being put to a vote, the vote was as follows:

Chairman Esteban L. Bovo, Jr.-Aye
Vice Chairman Francis Suarez-Absent

Board Member Juan Carlos Bermudez	-Aye	Board Member Vince Lago	-Absent
Board Member Jose "Pepe" Diaz	-Aye	Board Member Daniella Levine Cava	-Absent
Board Member Audrey M. Edmonson	-Aye	Board Member Roberto Martell	-Aye
Board Member Dan Gelber	-Absent	Board Member Joe A. Martinez	-Aye
Board Member Oliver G. Gilbert, III	-Aye	Board Member Jean Monestime	-Absent
Board Member Perla T. Hantman	-Absent	Board Member Dennis C. Moss	-Aye
Board Member Carlos Hernandez	-Absent	Board Member Jeff Porter	-Absent
Board Member Sally A. Heyman	-Absent	Board Member Shelly Smith Fano	-Absent
Board Member Eileen Higgins	-Aye	Board Member Rebeca Sosa	-Aye
Board Member Barbara J. Jordan	-Aye	Board Member Javier D. Souto	-Aye
Board Member Smith Joseph	-Aye	Board Member Xavier L. Suarez	-Aye

The Chairperson thereupon declared the resolution duly passed and approved this 25th day of October, 2018.

TRANSPORTATION PLANNING ORGANIZATION

By Zainab Salim
Zainab Salim, Clerk
Miami-Dade TPO

TRANSPORTATION PLANNING ORGANIZATION
IN ITS ROLE AS MIAMI-DADE MPO
FLORIDA
TPO

Baseline Conditions

Pavement Condition Performance Management Measures 2017

Performance Measure	Florida	Miami-Dade County
% of Interstate pavements in Good condition	66%	68.6%
% of Interstate pavements in Poor condition	0.1%	0.0%
% of non-Interstate NHS pavements in Good condition	45%	45.7%
% of non-Interstate NHS pavements in Poor condition	0.4%	0.6%

Source: FDOT State Materials Office and Maintenance Office

Bridge Condition Performance Management Measures 2017

Performance Measure	Florida	Miami-Dade County
% of NHS bridges classified as in Good condition by deck area	72%	68.4%
% of NHS bridges classified as in Poor condition by deck area	1%	0.2%

Source: FDOT State Materials Office and Maintenance Office

Baseline Conditions

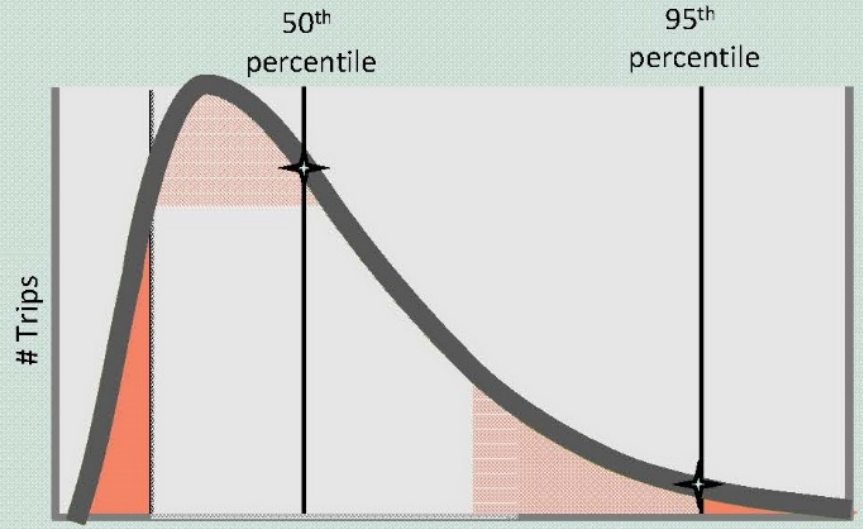
NHS and Freight Mobility Performance Management Measures 2017

Performance Measure	Florida	Miami-Dade County
% of person-miles traveled on the Interstate that are reliable	82%	57%
% of person-miles traveled on the non-Interstate NHS that are reliable	84%	59%
Truck travel time reliability ratio (TTR) on the Interstate	1.43	2.98

Source: National Performance Management Research Data Set

Truck Travel Time Reliability Index

Comparison (ratio) of the 95th percentile travel time of a reporting segment to the "normal" (50th percentile) travel time of a reporting segment occurring throughout a full calendar year



Travel Time Reliability

The Travel Time Reliability measure specified in § 490.507(a)(1) shall be computed to the nearest tenth of a percent as follows:

$$100 \times \frac{\sum_{i=1}^{R} SL_i \times AV_i \times OF_j}{\sum_{i=1}^{T} SL_i \times AV_i \times OF_j}$$

Where:
R = total number of Interstate System reporting segments that are exhibiting an LOTTR below 1.50 during all of the time periods identified in § 490.511(b)(1)(i) through (iv);
I = Interstate System reporting segment "i";
SLi = length, to the nearest thousandth of a mile, of Interstate System reporting segment "i";
AVi = total annual traffic volume to the nearest single vehicle, of the Interstate System reporting segment "i";
J = geographic area in which the reporting segment "i" is located where a unique occupancy factor has been determined;
OFi = occupancy factor for vehicles on the NHS within a specified geographic area within the State/Metropolitan planning area; and
T = total number of Interstate System reporting segments.

Freight Reliability Measure

The Freight Reliability measure shall be computed to the nearest hundredth as follows:

$$\frac{\sum_{i=1}^{T}(SL_i \times \max TTTR_i)}{\sum_{i=1}^{T}(SL_i)}$$

Where:
i = An Interstate System reporting segment;

maxTTTRi = The maximum TTTR of the five time periods in paragraphs (a)(1)(i) through (v) of § 490.611, to the nearest hundredth, of Interstate System reporting segment ‘‘i’’;

SLi = Segment length, to the nearest thousandth of a mile, of Interstate System reporting segment ‘‘i’’; and

T= A total number of Interstate System reporting segments.

Next Steps

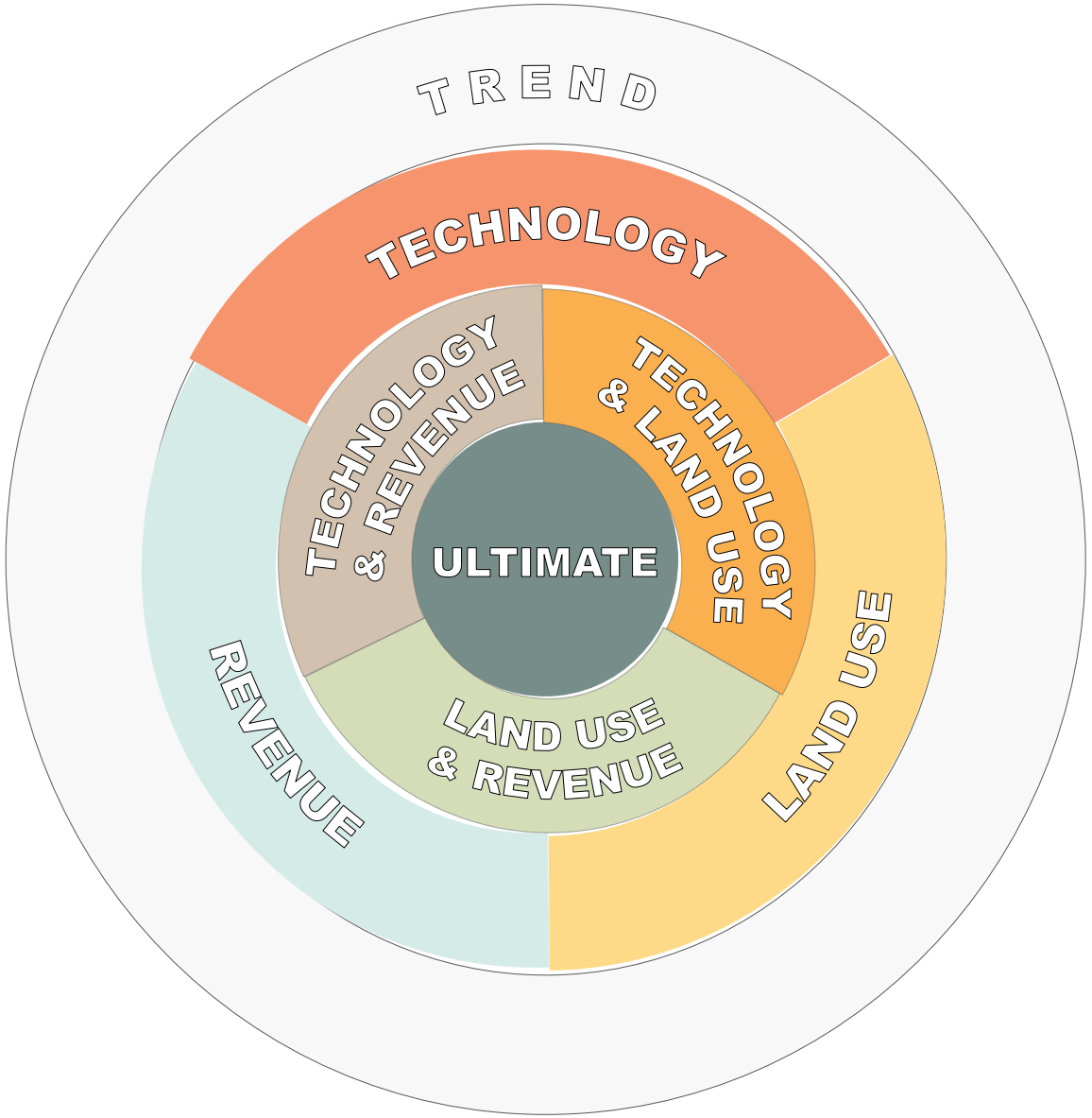
- TPO must endorse the 2019 safety PM targets (Vision Zero) by February 27, 2019
- TPO incorporates goals, objectives and targets of the SFRTA TAM into LRTP and TIP
- Transit Agency Safety Plan Rule
  - Published: 7/19/2018
  - Effective: 7/19/2019
  - Compliance: 7/20/2020

Bicycle/Pedestrian Plan Update

Edward Aparicio
Gannett Fleming, Inc.

Scenario Planning

Mary Ross
Gannett Fleming, Inc.


TREND
TECHNOLOGY
TECHNOLOGY & REVENUE
TECHNOLOGY & LAND USE
ULTIMATE
LAND USE & REVENUE
REVENUE
LAND USE

Project Updates

Next Meeting:

December 7, 2018