

Transportation Performance Measurement

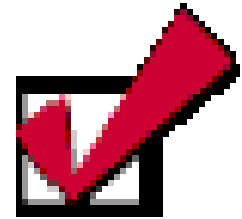
Updates

November 2018



U.S. Department of Transportation
Federal Highway Administration

Recent Milestones



- Aug 31: FDOT Set Safety 2019 Targets
- Oct 1:
 - S/TIP with Safety Targets Addressed
 - FDOT request for Using FDOT/MPO equivalent data sources (PM3)
 - FDOT Reported BR/Pvmt/Sys Perf Targets to FHWA
 - Baseline Reports for BR/Pvmt/Sys Perf (Interstate only)
- After Oct 1: S/TIP Amendments Include TAM (Transit Asset Management) Targets, TAM Plans and Transit Related PBPP metrics



What's New for FL?

- Provided Feedback on MPO Consensus Document (Aug)
- Provided Feedback on FDOT TPM language for STIP (Sept)
- Reviewing draft TIP Templates for PM2 and PM3
- Reviewing draft System Performance Report Framework



Probe Data Analytics(PDA)/NPMRDS Suite

- NPMRDS: National Performance Management Research Data Set
- Purpose:
 - Help Establishing Baseline Data
 - Help Set Targets
 - Help Determine Performance
- Designed to Simplify and Support PM3 Reporting Requirements for FDOT and MPOs
- Conduct Deep-Dive Analytics for Planning and for Operations



New Analysis Tool for FDOT and MPOs

- Pre-set Geographic Area pull-downs for each Florida MPA, UZA, and Statewide
- Advanced data analytics tool to conduct planning and traffic operational analyses
- FDOT already procured directly through RITIS
 - Access includes FDOT, MPOs, researchers, and consultants working on behalf of FDOT
- Request user account:
<https://www.ritis.org/register>
- Access PDA Suite at <https://pda.ritis.org>

The image shows two screenshots. The top screenshot is the RITIS website homepage, which has a dark blue header with the RITIS logo and navigation links: INTRODUCTION, TOOL CATALOG, USE CASES, GET ACCESS, and a LOGIN button. Below the header, it says 'WELCOME TO RITIS' and 'This website is for public safety and transportation agency use only. Enter your contact information below to receive access.' A 'New User Registration' link is visible. The bottom screenshot is the 'PROBE DATA ANALYTICS SUITE' login page. It features a dark background with the title 'PROBE DATA ANALYTICS SUITE' and a row of seven colored squares (green, teal, blue, dark blue, purple, and two shades of blue). Below this, it says 'Use your RITIS account to sign in.' and provides input fields for 'Email address...' and 'Password...'. A 'SIGN IN' button is present, along with a 'Forgot your password?' link. At the bottom, it says 'PROBE DATA ANALYTICS SUITE' and 'Access to the Probe Data Analytics Suite is linked to your RITIS account. If you do not have a RITIS account, you can request one here.'



Probe Data Analytics Suite

Data
Downloader

Deep-Dive Data
Analytic Tools

Dashboard
Creator

Tutorials

MAP-21 Tool for
PM3 Monitoring

The screenshot shows the 'Probe Data Analytics Suite' interface. At the top, there's a navigation bar with icons for search, download, map, play, link, list, and a '#1' badge. The main area is a grid of tool cards. A red dashed box encloses the first six cards: 'REGION EXPLORER', 'MASSIVE DATA DOWNLOADER', 'CONGESTION SCAN', 'TREND MAP', 'PERFORMANCE CHARTS', and 'PERFORMANCE SUMMARIES'. A red arrow points from the 'Data Downloader' label to the 'MASSIVE DATA DOWNLOADER' card. Another red arrow points from the 'Deep-Dive Data Analytic Tools' label to the 'CONGESTION SCAN' card. A third red arrow points from the 'Dashboard Creator' label to the 'DASHBOARD' card. A fourth red arrow points from the 'Tutorials' label to the 'TUTORIALS' card. A fifth red arrow points from the 'MAP-21 Tool for PM3 Monitoring' label to the 'MAP-21' card. The bottom of the interface features a 'SPONSORED BY' section with logos for SHA, MDOT, and others.

Probe Data Analytics Suite

Welcome | [My History](#) | [Help](#) | [Tutorials](#) | [Logout](#)

What's New
08/24/18

REGION EXPLORER
Explore the relationships between bottlenecks and traffic events in real-time and in the past.
[Tutorial](#) [Help](#)

MASSIVE DATA DOWNLOADER
Download raw probe data from our archive for offline analysis.
[Tutorial](#) [Help](#) [History](#)

CONGESTION SCAN
Analyze the rise and fall of congested conditions on a stretch of road.
[Tutorial](#) [Help](#) [History](#)

TREND MAP
Create animated maps of roadway conditions.
[Tutorial](#) [Help](#) [History](#)

PERFORMANCE CHARTS
Chart performance metrics over time.
[Tutorial](#) [Help](#) [History](#)

PERFORMANCE SUMMARIES
Report on Buffer Time Index, Planning Time Index, and other performance metrics.
[Tutorial](#) [Help](#) [History](#)

BOTTLENECK RANKING
Rank bottlenecks and discover which ones have the greatest impact.
[Tutorial](#) [Help](#) [History](#)

USER DELAY COST ANALYSIS
Put a dollar amount on how much a road's performance impacts its users.
[Tutorial](#) [Help](#) [History](#)

DASHBOARD
Create your own personal dashboards to monitor corridor performance in regions of interest.
[Tutorial](#) [Help](#)

TUTORIALS
Learn how to use each of the tools in the suite.
[How To...](#)

MAP-21
Create a dashboard widget to monitor states', MPOs', and Urbanized Areas' performances against the new MAP-21 ruling.
[Help](#)

SPONSORED BY

SHA
MDOT
CATT
ILLINOIS



U.S. Department of Transportation
Federal Highway Administration

Prepopulated Areas

MAP-21

 Our MAP-21 tools are fully up to date with the final MAP-21 ruling. Learn about them in our [tutorials](#).

1. Select geography:

☐ State

☐ MPAs

☐ UZAs

2. Select measure:

☒ Percent of Person-Miles Traveled on the Interstate That Are Reliable (the Interstate Travel Time Reliability measure)

☐ Percent of Person-Miles Traveled on the Non-Interstate NHS That Are Reliable (the Non-Interstate NHS Travel Time Reliability measure)

☒ Truck Travel Time Reliability Index

☒ Set target to less than

Pre-set Florida Metropolitan Planning Areas

MAP-21

 Our MAP-21 tools are fully up to date with the final MAP-21 ruling. Learn about them in our [tutorials](#).

1. Select geography:

☐ State

☐ MPAs

☒ UZAs

2. Select measure:

☒ Percent of Person-Miles Traveled on the Interstate That Are Reliable (the Interstate Travel Time Reliability measure)

☐ Percent of Person-Miles Traveled on the Non-Interstate NHS That Are Reliable (the Non-Interstate NHS Travel Time Reliability measure)

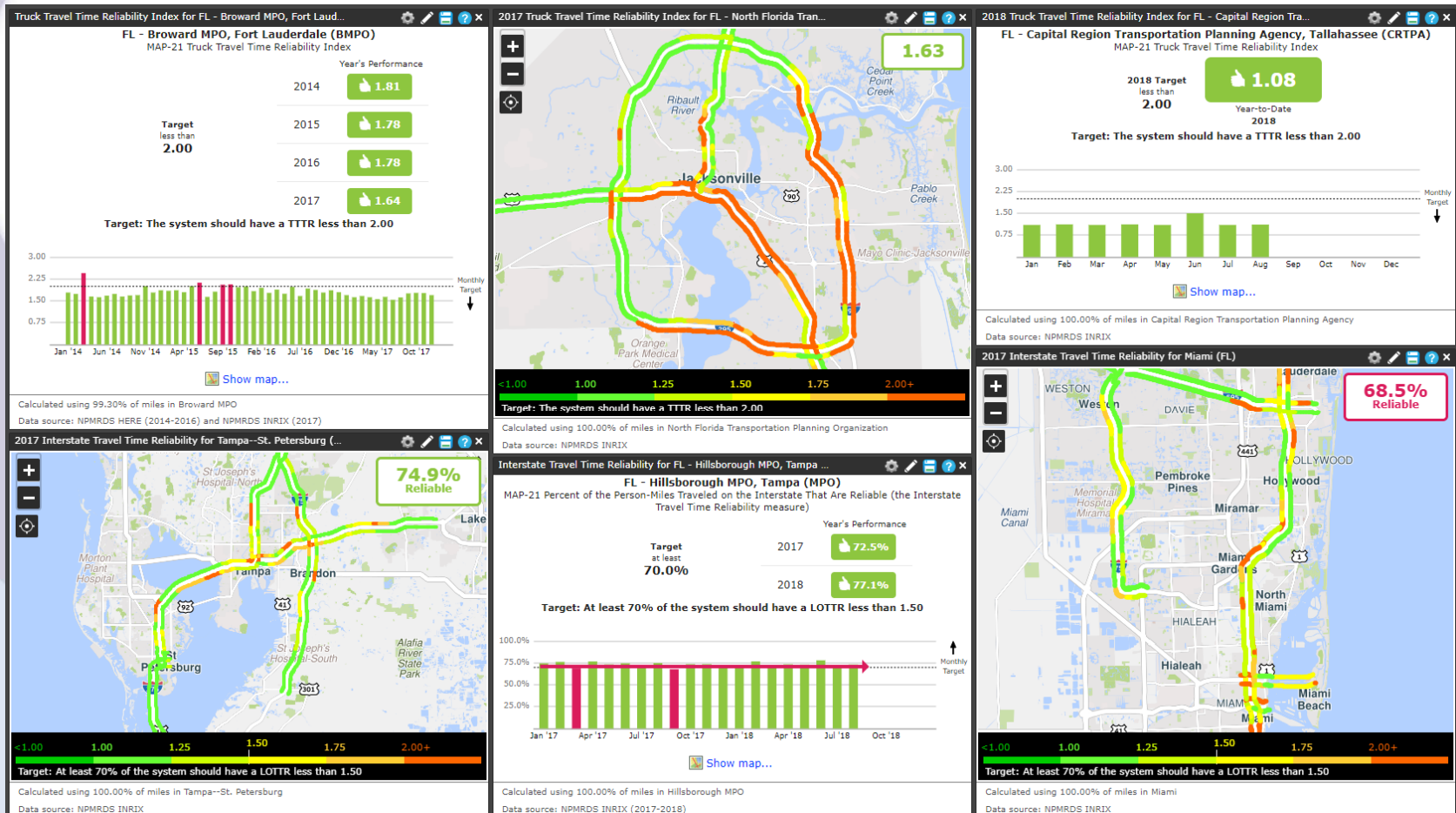
☒ Truck Travel Time Reliability Index

☒ Set target to less than

Pre-set Florida Urbanized Areas



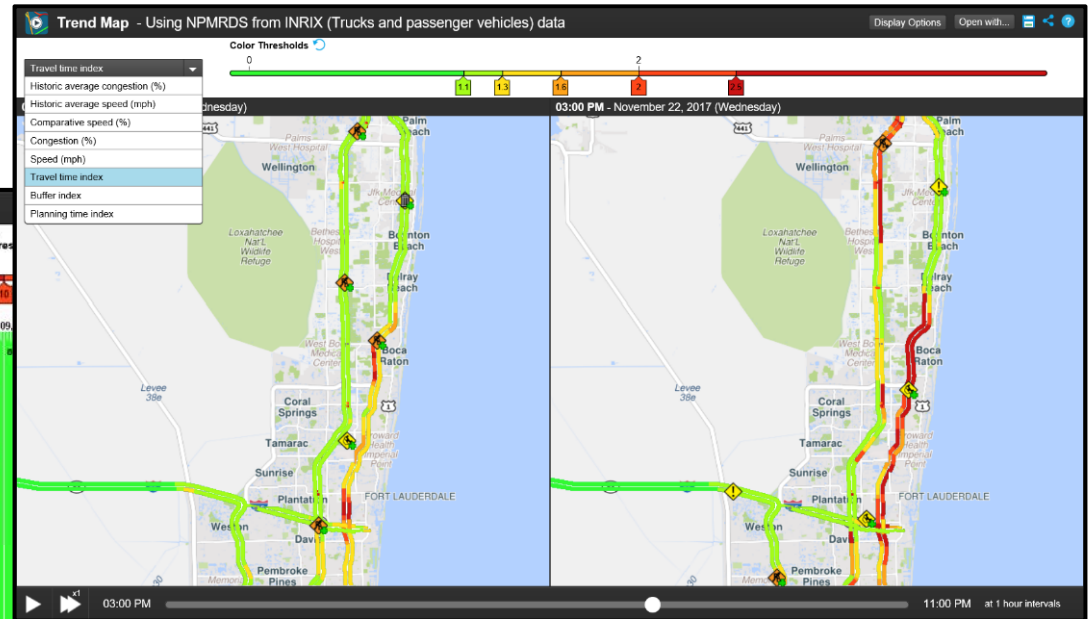
Examples of Tool Outputs



U.S. Department of Transportation
Federal Highway Administration

Examples of Deep Dive Analytics

I-75 2017 Hurricane Irma Evacuation (FL Tpke. - GA)

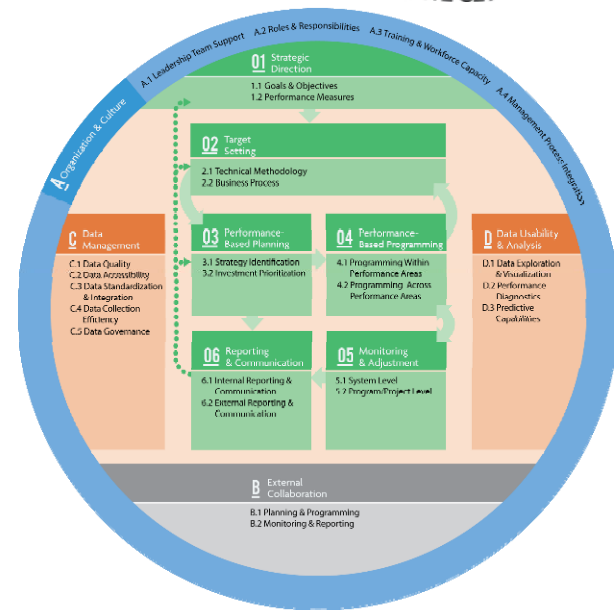


Trend Maps



FHWA Florida Division Support

- Will Host Florida Specific Introductory webinar
- Work through your Division Planner
- Assist in getting started
- Contacts for Tool User Support
- Support to FDOT Planners and TSMO Groups
- Support to MPO Planners



U.S. Department of Transportation
Federal Highway Administration

What's New in Guidance?

- TPM Implementation Plan – June 2018
 - To help determine levels of Stewardship needed
 - Identifies broad goals to be achieved through successful TPM implementation and specific activities aimed at achieving those goals

<https://www.fhwa.dot.gov/tpm/plan.pdf>

<https://www.fhwa.dot.gov/tpm/guidance/>



On the Horizon



- ~~Nov 16~~ **Nov 14**: MPO Sets Bridge, Pavement and System Performance Targets
- Feb 27: MPO Sets Safety Target
- May 20, 2019: Any S/TIP Amendments After May 20th Address Bridge, Pavement and System Performance Targets



For Additional Information



- Cathy Kendall – Districts 1, 3 – cathy.kendall@dot.gov
- Teresa Parker – Districts 2, 5, 7 - teresa.parker@dot.gov
- Stacie Blizzard – Districts 4, 6 – stacie.blizzard@dot.gov
- FHWA FL Division Website: www.fhwa.dot.gov/fldiv/tpm.cfm



U.S. Department of Transportation
Federal Highway Administration