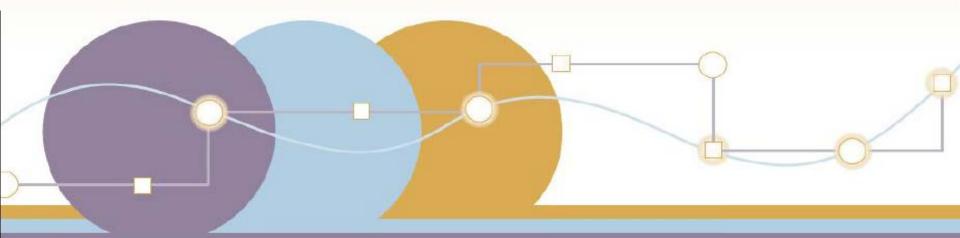
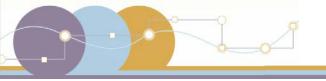
Practice Makes Perfect: State of the Practice and Opportunities

Collaborating Toward Successful Performance Management: FHWA and the States Working Together

5th International Transportation Systems Performance Measurement and Data Conference June 2, 2015

Pete Stephanos Federal Highway Administration

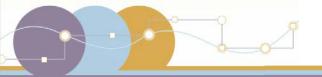




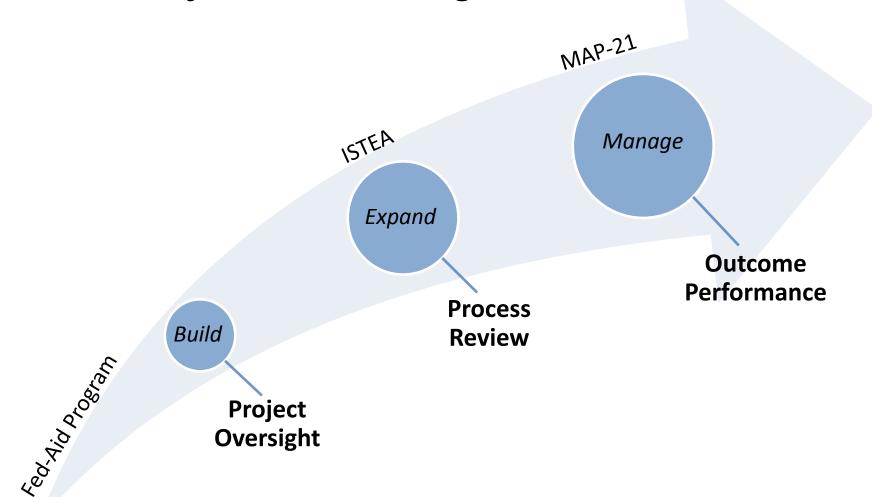
Presentation Outline

- Implementing National performance management program
 - Evolving Federal Program, NPRM schedule
 - Challenges and opportunities
- FHWA Efforts to Assist in Telling the Transportation Performance Management Story
 - Building on prior reporting efforts
 - Developing a comprehensive suite of technical assistance products





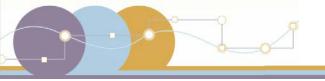
Evolution of the Federal Program





Performance Areas	NPRM	NPRM Comments Due	
Safety Performance Measures	March 11, 2014	<u>Closed</u> June 30, 2014	September 2015
Highway Safety Improvement Program	March 28, 2014	<u>Closed</u> June 30, 2014	August 2015
Statewide and Metro Planning; Non-Metro Planning	June 2, 2014	<u>Closed</u> October 2, 2014	September 2015
Pavement and Bridge Performance Measures	January 5, 2015	Closed May 8, 2015	n/a
Highway Asset Management Plan	February 20, 2015	<u>Closed</u> May 29, 2015	n/a
System Performance Measures	Projected August 2015	120 days	n/a



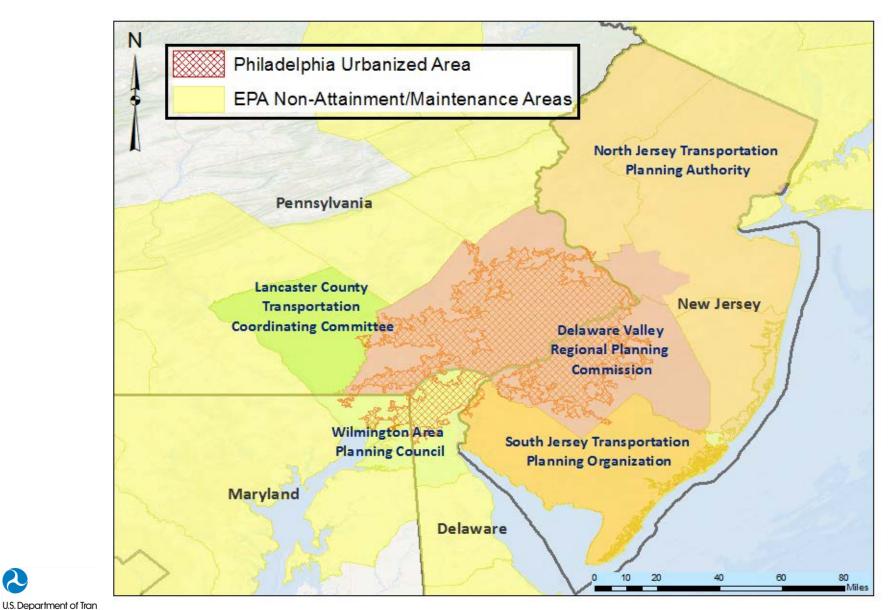


Challenges and Opportunities

- Providing both consistency and flexibility
- Finding the right balance of National measures
- Managing performance across jursidictions
- Data requirements and management
- Linking performance measures to investments
- Advancing technologies







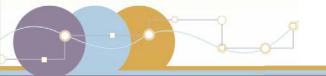




Example Deriving Measures from Multiple Sources/Methods

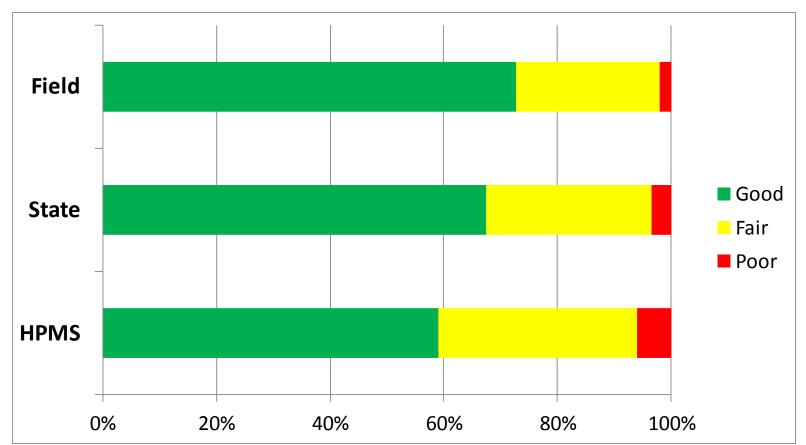
- Evaluate Different Data Sources
 - State Database
 - HPMS Database
 - Field Collected Data
- Evaluate Different Methods
 - Tier 1 IRI based approach
 - Tier 2 Composite Condition approach
 - Tier 3 Structural Measurement approach

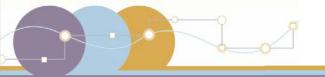




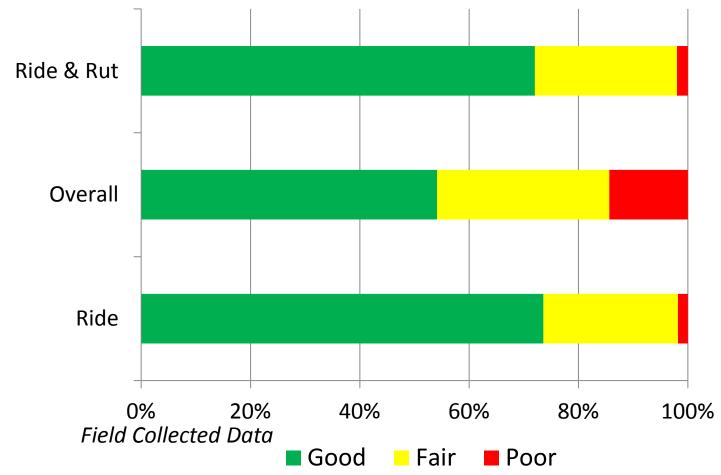
Ride Quality Comparison – Summary

Do HPMS, state, and field data collection methods tell us the same thing?

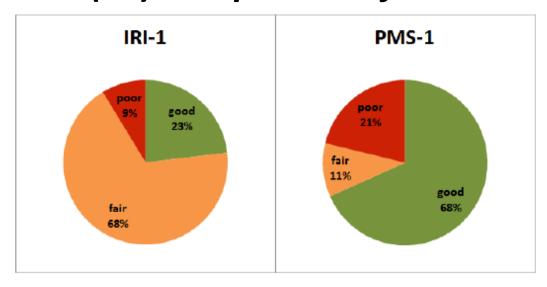


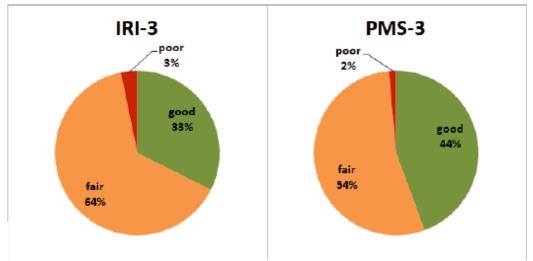


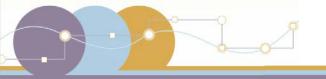
Comparing Good/Fair/Poor Options



NCHRP 20-24(82) Comparison of Metrics



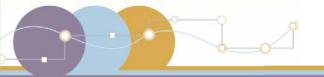




FHWA Efforts to Assist in Telling the Transportation Performance Management Story

- Some precedent with prior examples of National performance reporting
 - Performance and Accountability Report
 - Conditions and Performance Reports to Congress
 - American Recovery and Reinvestment Act
- A wide range of TPM support is / will be available
 - Technical assistance, training, data tools and support



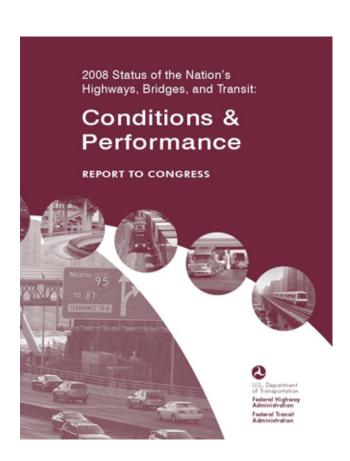


Prior Examples of National Performance Reporting USDOT Performance Report

Performance Measure	2010	2011	2012	2013	2014 Target	2014 Actual	Met?
Percent NHS Good Pavements	55.0	54.3	57.1	57.6	58.4	59.0	Met
Percent NHS Structurally Deficient Bridges	8.3	7.8	7.1	6.7	6.6	6.0	Met



Prior Examples of National Performance Reporting USDOT Performance Report



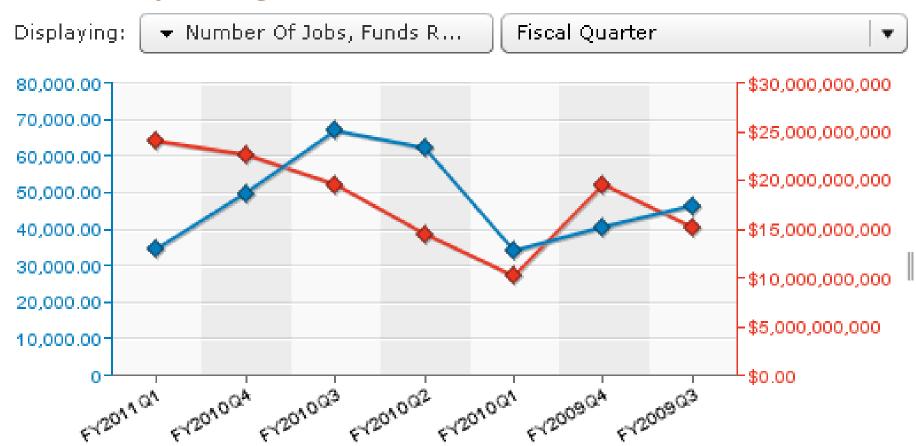
Report to Congress

- System Conditions
- Operational Performance
- Safety
- Revenue and Expenditures
- Investment Analysis

Difficult to associate performance with federal investments



Prior Examples of National Performance Reporting ARRA Reporting





National TPM Support Activities Noteworthy Practices, TPM Digest, Training

Email Notification

Enter your E-mail

Data Part 2

June 9, 2015

Related Links

 FHWA MAP-21 FHWA Performance-based

FHWA Policy

· Bill Bolles

Contacts

2:00-3:30 PM EST

· View all Upcoming Events

Office of Transportation

Performance Management 202-366-8027 E-mail Bill Susanna Hughes-Reck Office of Transportation

Performance Management 202-366-1548

Webinar

Events

Sign up to receive general notices

· Fundamentals of Transportation

Submit



Noteworthy Practices

Many state and local agencies are successfully implementing innovative approaches to Transportation Performance planning, implementation, and evaluation. The individual case studies provide summaries of each practice, key accomplishments, results, and contact information for those interested in learning more. Please consider submitting your own practice for our library using our Noteworthy Practices Submission form

- - North Carolina Refining a Performance Management System (.pdf, 0.6 mb)
 - Pennsylvania Evaluating Performance Measures (.pdf, 0.4 mb) West Virginia Planning for Performance Management (.pdf. 0.5 mb)
- Stakeholder/Community Involvement
 - · Oregon Metro Council: Community Based Goals Support Strong TPM (.pdf, 0.6 mb)
 - Rhode Island Collaborating for Performance (.pdf, 0.5 mb)
- Performance-based Planning
 - Massachusetts Planning Incorporates Multimodal Performance Trade-Offs (.pdf, 0.3 mb) Ohio Form Follows Function for Mid-Ohio Metropolitan Transportation Plan (.pdf, 0.2 mb)
- · Data Collection and Management
 - Texas's Collaborative Approach to Performance Data Management (.pdf, 0.2 mb) Utah's GIS Database Enhancing Transportation Performance Management (.pdf, 0.6 mb)
 - · Wisconsin Performance Reporting: Communicating Better with Existing Data (.pdf, 0.4 mb)
- Minnesota Target Setting: Planning Under Fiscal Constraints (.pdf, 0.2 mb)
- Project Prioritization/Decisionmaking
 - Delaware Valley Regional Planning Commission; Utilizing Investment Scenarios to Enhance Transportation Performance (.pdf, 0.5 mb)
- - · Missouri's Performance Tracker: Flexibility and Accountability (.pdf, 0.7 mb)
 - · Virginia's Dashboard: Driving VDOT Success (.pdf, 0.5 mb)
 - Washington State's Effective Communication of Performance Drives Results (.pdf, 0.5 mb)



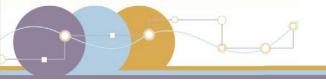
http://www.fhwa.dot.gov/tpm/resources/digest/20 15 04.cfm

NHI Training

- **Overall TPM**
- Performance Area Specific
- Target Setting

http://www.fhwa.dot.gov/tpm/resources/noteworthy.cfm





National TPM Support Activities

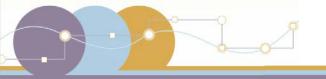
FHWA's TPM Technical Assistance Program

The TPM Technical Assistance Program (TAP) will be comprised of three parts:

Technical Assistance Resources On-Site
Assistance and
Action Planning

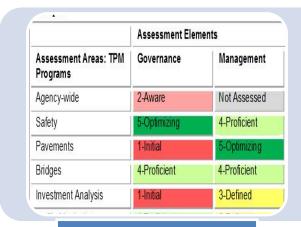
National Assessments and Surveys





National TPM Support Activities

FHWA's TPM Technical Assistance Program







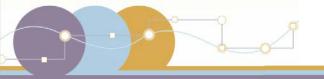
Develop TPM
Capability
Maturity Model
(CMM)

Distribute TPM Implementation Guidebook

• Date: Fall 2015

Deploy TPM
Toolbox that
integrates TPM
CMM and
Guidebook

• Date: Fall 2015



National TPM Support Activities FHWA's TPM Technical Assistance Program

Administer Division TPM Readiness Assessment

- Purpose: Assess the abilities of DOs to oversee and provide support in the implementation of MAP-21 performance provisions
- Aligns with Roles and Responsibility Report
- Date: Spring 2015

Administer National TPM Implementation Review

- Purpose: Review the degree to which State Transportation Agencies and MPOs have implemented MAP-21 performance provisions
- Date: After Rulemaking and again in two years







National TPM Support Activities Improve How Data is Made Available and Presented

- New public data files for national data systems
- FHWA cloud testing for pavement and bridge data
- Data Visualization Center
- Research datasets
- Data Governance Plan



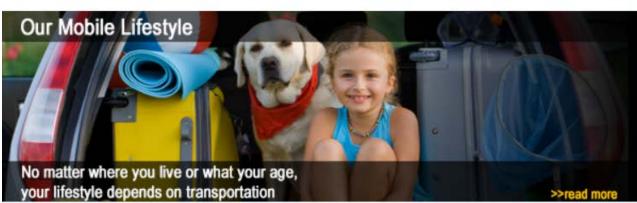


National TPM Support Activities

Communicating Transportation Performance









America In Motion!

It's hard not to marvel at the transportation system that keeps America – and you – going.



Demographics Changing Transportation

As we look to the future of transportation, we see that America's needs are evolving.



How is Transportation Funded in the U.S.?

Learn more about how the United States funds transportation and why innovative funding sources are needed.



Mobile Moments: Bicycle Safety Infographic

630 cyclists died on U.S. highways in 2009.

BORING BUT IMPORTANT

- Bridges in the U.S.: 599,766
- Bridges requiring repairs: 152,324
 Cost to repair them: \$140 billion
- What Americans spend each year on soft
- drinks: \$65 billion

 What the US spent in 2008 repairing bridges: \$12.8 billion

Source: AASHTO, ASCE, National Soft Drink Association

HOW ARE WE MEASURING UP?

HIGHLIGHTED MEASURE

LOWERING FATAL CRASHES

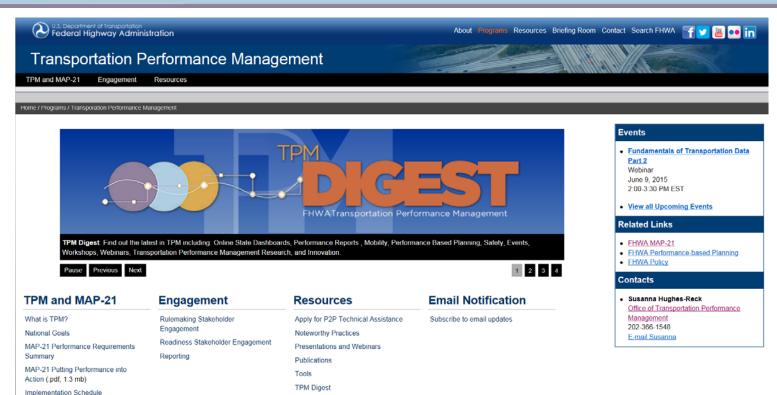
Number of Fatalities

33,210

Annual 5-Year Average







Thank You

Peter.stephanos@dot.gov

http://www.fhwa.dot.gov/tpm/

