

**Welcome to the New Performance Management Paradigm:  
A World of Challenge and Opportunity**

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# ***Performance-Based Federal Highway Program***

Federal Highway Administration

October 25-26, 2017



U.S. Department of Transportation  
Federal Highway Administration



# *Our Time Today*

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- TPM Professional Capacity Building Activities
  - Resources You Can Use
  - Specific Implementation Support



# Strategic Approach

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## Define

- Partner Needs and Input
- Requirements Driven (Regulations and Guidance)
- Informational Materials

## Develop

- Multi-Tier approach
- Flexible
- Responsive
- Technology Savvy
- Proven Effective Practices

## Deliver

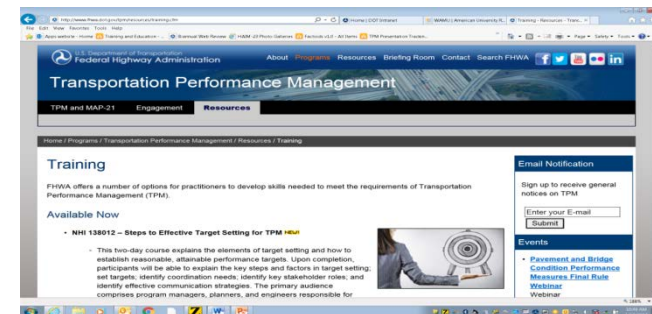
- Formal and Tailored Training
- Peer Dialogue and Exchange
- Technical Assistance
- Virtual Events
- Videos & Websites
- Tools



# TPM Implementation Support: Formal Training

## *NHI In-Person Courses Available Now:*

- Overview of MAP-21 TPM (w/ FAST Act Updates)
- TPM for Safety
- Performance-based Planning and Programming
- Steps to Effective Target Setting
- Data Management for TPM



# ***TPM Implementation: Technical Assistance***

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## ***Delivery Approaches***

- Tailored Workshops/Webinars
- Videos
- Peer Exchanges/Peer Dialogue

## ***Example Topics***

- Strategic Direction/Scenario Analysis
- Data Management
- Analytical Tools
- Target Setting
- Coordination



# ***TPM Implementation:***

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## ***Technical Assistance***



### ***National Webinars***

- Final Rule Webinars
  - Recordings Available
  
- FHWA Let's Talk Performance Series
  - Topical Sessions on Key TPM Topics
    - TAMP and Risk Management (August 9, 2017)
    - Target Setting Coordination (June 2017)
    - Basics of Target Setting (July 2016)



# ***TPM Implementation:***

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## ***Technical Assistance***

### ***Formal Peer Exchange Programs***

- Learn from DOT/MPO/Transit Peers
- Apply for:
  - FHWA TPM Professional Capacity Building Program
  - FHWA Transportation Planning Capacity Building Program
    - FHWA Scenario Planning Peer Exchange Workshop



# ***TPM Implementation:***

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## ***Assessment Workshops***

### ***TPM Capability Maturity Model (CMM)***

- Workshop and Guidebook
- Self-Assessment Tool
- Other Assistance Available Upon Request





# ***TPM Implementation:***

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## ***Informational Materials***

### ***Technical Advisories***

- Asset Management Plan Q&A
- S/TIP Performance-Based Discussion
- LRTP System Performance Report
- Linking Targets to Long Term Expectations

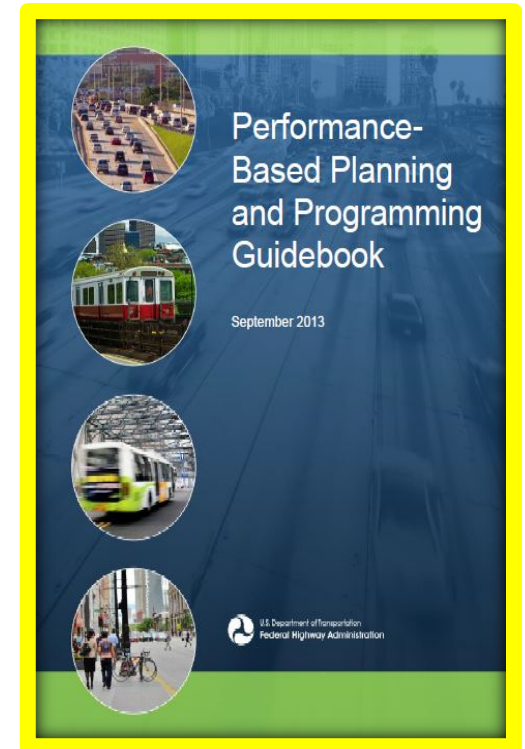
### ***Guidebooks and Effective Practices***

- Target Setting
- Investment Plans
- Freight Performance at Bottlenecks



# Performance Based Planning and Programming Guidebook

- Practical Resource Focused on PBPP Elements
- Highlights Effective Practices
  - State DOTs, MPOs, Transit Agencies
- Reviews Connections with Other State/Regional Plans/Processes
  - Examples:
    - Strategic Highway Safety Plan
    - CMP
    - Asset Management Plans



# ***Model Long Range Plan: Guide for Incorporating PBPP***

- Detailed Information About Developing a Performance-based Statewide Long-range Metropolitan Transportation Plan
- Especially Helpful for:
  - Performance Measures
  - Preferred Trends and Targets
  - System Performance Report



# ***Supporting PBPP Through Scenario Planning***

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- Array of Scenario Analytical Tools to Be Used at Various PBPP Steps
- Good Case Studies!

Available at  
<http://bit.ly/2qaNGi3>



# Your Go-To Resource

- Visit <http://www.fhwa.dot.gov/tpm/>
  - Informational Materials
  - Training
  - Technical Assistance
  - Peer Exchange Info
  - Effective Practices
  - Videos; and
  - MORE to Come.....

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## Transportation Performance Management

TPM and MAP-21 Engagement Resources

Home / Programs / Transportation Performance Management

### TPM Toolbox

Beta Release Website

This is a beta release website for the FHWA Toolbox.

Learn more about the TPM Toolbox

TPM Toolbox Public Beta: The TPM Toolbox is an online resource to assist agencies in learning about and implementing TPM practices. The Toolbox includes the TPM Guidebook and the TPM Capability Maturity Model (CMM), a self-assessment tool that identifies practical steps for an agency to improve its TPM capabilities.

Play Previous Next

#### Implementation

- What is TPM?
- National Goals
- MAP-21 Putting Performance into Action (pdf, 1.3 mb)
- Implementation Schedule (pdf, 0.1 mb)
- TPM Rulemakings
- Guidance

#### Engagement

- Rulemaking Stakeholder Engagement
- Reporting

#### Resources

- Apply for P2P Technical Assistance
- Noteworthy Practices
- Presentations and Webinars
- Publications
- Tools
- TPM Digest
- Training

#### Email Notification

- Subscribe to email updates
- Calendar View the TPM calendar

#### Related Links

- FHWA/DOT TPM-related Links
- TPM External links

#### Contacts

- Susanna Hughes-Reck  
Office of Transportation Performance Management  
202 366-1549  
E-mail: Susanna



# TPM Implementation Workshop Material

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

## AM Workshop Notes

- This workshop is for those with knowledge of Asset Management and includes hands-on break-out groups which include analysis pertaining to life-cycle planning, risk, and development of financial plans.
- We recommend that participants take the following NHI web-based training courses prior to participation in the workshop:
  - [NHI 136106C, Introduction to a Transportation Asset Management Plan](#)
  - [NHI 136002A, Introduction to Financial Planning for Asset Management](#)

## Hotels

Residence Inn Phoenix Downtown  
132 South Central Avenue  
Phoenix AZ 85003

## Presentations

- [Asset Management Workshop](#)
  - [Interim Guidance: Incorporating Risk Management into Transportation Asset Management Plans](#)
  - [Interim Guidance: Developing TAMP Financial Plans](#)
  - [Interim Guidance: Using a Life Cycle Planning Process to Support Asset Management](#)
  - [Asset Management](#) (.pdf, 1.9 mb)
  - [Asset Management Workshop Participant Workbook](#) (.pdf, 1.5 mb)
- [Opening Plenary - Putting the Pieces Together](#) (.pdf, 0.7 mb)
- [Planning](#) (.pdf, 0.3 mb)
- [PM2 - Bridge](#) (.pdf, 2.5 mb)
- [PM3 - Freight](#) (.pdf, 1 mb)
- [PM3 - Reliability and PHED Measures](#) (.pdf, 0.8 mb)
- [PM 3 - CMAQ: On-Road Mobile Emissions and Percent of Non-SOV Travel](#) (.pdf, 0.6 mb)
- [PM 3 - CMAQ: On-Road Mobile Emissions and Percent of Non-SOV Travel Worksheet](#) (.pdf, 0.1 mb)
- [PM3 - CMAQ Non-SOV Travel Worksheet](#) (.docx)
- [PM2 - Pavements for "Overview of Performance Measures: Pavement Condition to Assess the National Highway Performance Program"](#) (.pdf, 5 mb)
  - [Handouts](#) (.pdf, 1 mb)
- [Closing](#) (.pdf, 3 mb)

## Registration

- [Please contact your local Division Office](#)



# TPM FAQs

<https://www.fhwa.dot.gov/tpm/faq.cfm>

## Transportation Performance Management

[Implementation](#) [Engagement](#) [Resources](#)

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### Frequently Asked Questions

- [Performance Period](#)
- [Bridge](#)
- [Pavement](#)
- [Travel Time Reliability](#)
- [Freight Movement](#)
- [CMAQ On-Road Mobile Source Emissions: Total Emission Reductions](#)
- [CMAQ Traffic Congestion Annual Hours of Peak Hour Excessive Delay Per Capita](#)
- [CMAQ Traffic Congestion: Percent of Non-Single Occupancy Vehicle \(SOV\) Travel](#)
- [GHG Measure-Effective Date and Repeal Notice](#)

### Other FAQs

- [Asset Management](#)
- [Q & A on Safety Performance Measures Final Rule](#)

### Performance Period

**Q. What are the dates of the first four-year performance period?**

A. The first performance period begins **January 1, 2018**, and ends on **December 31, 2021** with the exception of the CMAQ emissions reduction measure. For that measure, the first performance period begins on **October 1, 2017**, and ends on **September 30, 2021**.

**Q. When is this period's State DOT baseline performance period report due?**

A. The baseline report for the first performance period is due **October 1, 2018**, for all measures under this final rule.

[ [Top](#) ]

### Bridge

**Q. To what bridges does the rule apply?**

A. The final rule applies to all bridges carrying the NHS, including bridge on- and off-ramps connected to the NHS.

**Q. What are the bridge condition performance measures?**

#### Email Notification

Sign up to receive general notices on TPM

Enter your E-mail

#### Events

- [Pavement Management Quarterly Webinar](#)  
Webinar  
October 19, 2017  
2:00-4:00 Eastern
- [View all Upcoming Events](#)

#### Related Links

- [TPM External links](#)

#### Contact

- **Bill Bolles**  
[Office of Transportation Performance Management](#)  
202-366-8027  
[E-mail Bill](#)



# TPM Guidebook @ tpmtools.org

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# TPM Examples

[https://www.fhwa.dot.gov/tpm/links\\_external.cfm](https://www.fhwa.dot.gov/tpm/links_external.cfm)

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## Transportation Performance Management

Implementation Engagement Resources

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## External TPM-related Links

[TPM Dashboards](#) | [Performance Measures and Reports](#) | [Planning and Asset Management](#) | [Safety and Mobility](#) | [Research and Innovation](#) | [Education, Events, Workshops, and Webinars](#) | [Washington State DOT MAP-21 Resources](#)

## TPM Portal

- [TPM Portal](#)

## TPM Dashboards

- [Alaska DOT Dashboard](#)
- [Chicago DOT Dashboard](#)
- [City of Boston Dashboard](#)
- [City of Fort Collins](#)
- [City of Phoenix Dashboard](#)
- [City of Seattle Dashboard](#)
- [City of Williamsburg, VA Dashboard](#)
- [Colorado DOT Dashboard](#)
- [Council of State Governments Dashboard](#)
- [Delaware DOT Dashboard](#)
- [Idaho DOT Dashboard](#)
- [Iowa DOT Dashboard](#)
- [Kane County Transportation Dashboard](#)
- [Kansas City Dashboard](#)
- [Michigan DOT Scorecard Performance Summary](#)
- [Michigan Transportation Dashboard](#)
- [New Hampshire DOT Dashboard](#)
- [North Carolina DOT Dashboard](#)
- [Ohio DOT Dashboard](#)
- [Oregon DOT Dashboard](#)
- [South Carolina DOT Dashboard](#)
- [State of Michigan Dashboard](#)
- [Virginia DOT Dashboard](#)

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## AASHTO Transportation Management Hub

The Transportation Management Hub provides access to a suite of transportation management products: The AASHTO Transportation Performance Management Portal, The AASHTO Transportation Asset Management Portal, and the AASHTO Enterprise Risk Management Portal.

Performance Management

Asset Management

Risk Management

AASHTO

## Transportation Management Web Portals



### AASHTO Transportation Performance Management Portal

The TPM Portal was developed to showcase best practices, foster collaboration, and serve as a repository for TPM resources.

[Access the TPM Portal...](#)



### AASHTO Transportation Asset Management Portal

The TAM Portal is a searchable database of links to a wide range of resources related to transportation asset management.

[Access the TAM Portal...](#)



### AASHTO Enterprise Risk Management Portal

The ERM Portal is a basic risk management resource library for transportation practitioners.

[Access the ERM Portal...](#)



# TPM Guidebook @ [tpmtools.org](http://tpmtools.org)

TPM Toolbox

Guidebook

Assessment

Resources ▾

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TPM Framework

Download a P

Introduction ▲  
Component 1:  
Strategic Direction  
Component 2:  
Target Setting  
Component 3:  
Performance-Based  
Planning  
Component 4:  
Performance-Based  
Programming  
Component 5:  
Monitoring and  
Adjustment  
Component 6:  
Reporting and  
Communication  
Component A:  
Organization and  
Culture  
Component B:  
External  
Collaboration and  
Coordination  
Component C: Data  
Management  
Component D: Data  
Usability and  
Analysis ▼

Home / Guidebook

# TPM Guidebook

Building upon over a decade of transportation performance management research and agency practices, this guidebook introduces a comprehensive **TPM Framework**. Each numbered and lettered component below is discussed in a dedicated chapter within the guidebook. Summary factsheets are also available for each component. Each Guidebook chapter is also available to download as a PDF file.

## Introduction. TPM Framework

Transportation Performance Management (TPM) is a strategic approach that uses system information to make investment and policy decisions to achieve performance goals.



# Resources @ tpmtools.org

## Publications

### Filters

#### Components

- Component 1: Strategic Direction (32)
- Component 2: Target Setting (35)
- Component 3: Performance-Based Planning (24)
- Component 4: Performance-Based Programming (19)
- Component 5: Monitoring and Adjustment (29)
- Component 6: Reporting and Communication (25)
- Component A: Organization and Culture (26)
- Component B: External Collaboration (32)
- Component C: Data Management (42)
- Component D: Data Usability and Analysis Capabilities (23)

#### TPM Areas

- Environment (1)
- General (600)

### Matching Publications

1. FHWA Index of Legislation, Regulations, and Guidance
2. 49 CFR 613 – PLANNING ASSISTANCE AND STANDARDS
3. 23 CFR 450.210 – COORDINATION.
4. Transportation Article Section 2-103.1 of the Annotated Code of Maryland
5. Strategic Transportation Investments
6. 23 U.S.C. 135 – STATEWIDE TRANSPORTATION PLANNING
7. 23 U.S.C. 150 – REPEALED. PUB. L. 105-178, TITLE I, §1103(L)(5), AS ADDED PUB. L. 105-206, TITLE IX, §9002(C)(1), JULY 22, 1998, 112 STAT. 834
8. Performance Measurement: Getting Results
9. Interim Guidance on National Performance Measure Development
10. Measuring Performance among State DOTs: Sharing Good Practices
11. Measuring Performance Among State DOTs
12. MN TZD Mission, Goals, & Values
13. Target-Setting Workshop
14. SCOPM Task Force Findings on MAP-21 Performance Measure Target-Setting
15. About HB2
16. HB2 Implementation Policy Guide
17. Keeping Score for the Game our Customers Care About
18. Traffic Flow Data Program R009, Agreement for Use of Data
19. Vital Signs – Greenhouse Gas Emissions
20. Metro Regional Centerline Collaborative



# The New Performance Management Paradigm: A World of Challenge and Opportunity

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*Questions?*



*Thank You*

