MAP-21

Moving Ahead for Progress in the 21st Century

Performance Management Elements
An Overview of Requirements and Implementation Status

November 12, 2013
Francine Shaw Whitson
Federal Highway Administration
Transportation Performance Management

Agenda

- MAP-21 Background-Performance Requirements
- Inter-related Rules
- USDOT Implementation Approach
- Performance Accountability
- Implementation Schedule
- Other Initiatives
MAP-21 Background-Performance Requirements

- National Goals
- Measures
- Targets
- Plans
- Reports
- Accountability and Transparency
9 Inter-related Rules

- Highway Safety Programs (NHTSA)
- Highway Safety Improvement Program (FHWA)
- Metro and Statewide Planning (FHWA-FTA)
- Safety Performance Measures (FHWA)
- Infrastructure Performance Measures (FHWA)
- System Performance Measures (FHWA)
- Highway Asset Management (FHWA)
- Transit Asset Management (FTA)
- Transit Safety Plan (FTA)

## Planning

**Metropolitan and Statewide Planning Rule**
- Establish a performance-based planning process at metropolitan and state level.
- Define coordination in the selection of targets, linking planning and programming to performance targets.

## Highway Safety

**Safety Performance Measure Rule**
- Propose and define fatalities and serious injuries measures, along with target establishment, progress assessment and reporting requirements.
- Discuss the implementation of MAP-21 performance requirements.

**Highway Safety Improvement Program (HSIP) Rule**
- Integration of performance measures, targets, and reporting requirements into the HSIP.
- Strategic Highway Safety Plan updates.

**Highway Safety Program Grants Rule**
- State target establishment and reporting requirements.
- Highway safety plan content, reporting requirements, and approval.
  - *Interim Final Rule issued by NHTSA in January 2013.*

## Highway Conditions

**Pavement and Bridge Performance Measure Rule**
- Propose and define pavement and bridge condition measures, along with minimum condition standards target establishment, progress assessment and reporting requirements.

**Asset Management Plan Rule**
- Contents and development process for asset management plan.
- Minimum standards for pavement and bridge management systems.

## Congestion/System Performance

**System Performance Measure Rule**
- Define performance of the interstate system, non-interstate national highway system, and freight movement on the interstate system.
- Finalize interpretation of scope of CMAQ performance requirements, including congestion and on-road mobile source emissions.
- Summarize MAP-21 highway performance measure rules.

## Transit Performance

**Transit State of Good Repair Rule**
- Define state of good repair and establish measures.
- Transit asset management plan content, target establishment and reporting requirements.

**Transit Safety Plan Rule**
- Define transit safety standards.
- Transit safety plan content and reporting requirements.
USDOT Implementation Approach
Consideration of Challenges
# Measure Groupings

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>MEASURE CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STATUS I</strong></td>
<td>• Serious Injuries per VMT</td>
</tr>
<tr>
<td></td>
<td>• Fatalities per VMT</td>
</tr>
<tr>
<td></td>
<td>• Number of Serious Injuries</td>
</tr>
<tr>
<td></td>
<td>• Number of Fatalities</td>
</tr>
<tr>
<td><strong>STATUS II</strong></td>
<td>• Pavement Condition on the Interstates</td>
</tr>
<tr>
<td></td>
<td>• Pavement Condition on the Non-Interstate NHS</td>
</tr>
<tr>
<td></td>
<td>• Bridge Condition on NHS</td>
</tr>
<tr>
<td><strong>STATUS III</strong></td>
<td>• Traffic Congestion</td>
</tr>
<tr>
<td></td>
<td>• On-road mobile source emissions</td>
</tr>
<tr>
<td></td>
<td>• Freight Movement</td>
</tr>
<tr>
<td></td>
<td>• Performance of Interstate System</td>
</tr>
<tr>
<td></td>
<td>• Performance of Non-Interstate NHS</td>
</tr>
</tbody>
</table>
Coordinating Implementation – 9 Rulemakings

Measure Rules
• Define Measure
  • Data Elements
  • Data Source
• Interstate Pavement Condition
• Target Setting Requirements
• Define Significant Progress
• State Performance Reporting
• Establish Timing

Planning Rule
• Performance-based Planning Process
• Target Setting Coordination
• MPO Performance Reporting
• STIP/TIP Discussion
• Transition Period

Program Rules
• Plan Requirements
• Special Rules
• Integrating Performance
• Transition Period
Pavement Performance Measures

States will be required to:

- Use measures to assess pavement condition for:
  - Interstate System
  - Non-Interstate System NHS
- Utilize and maintain necessary data elements
- Meet minimum condition levels established for Interstate pavements
- Set targets for each pavement measure
- Report biennially and make significant progress towards its targets
Bridge Performance Measures

States will be required to:

- Use measures to assess bridge condition for the NHS
- Utilize and maintain necessary data elements
- Meet 10% structurally deficient minimum condition levels established by Congress
- Set targets for each bridge measure
- Report biennially and make significant progress towards its targets
**Targets**

- States, MPOs and public transportation agencies set their own targets.

- **Target Setting Due Dates**
  - Highway Safety (NHTSA)
    - States set targets beginning in 2013.
  - Federal-aid Highway (FHWA)
    - States set targets no later than 1 yr after USDOT establishes measures
    - MPOs set targets no later than 180 days after State sets targets
  - Public Transportation (FTA)
    - Public Transportation Agencies set State of Good Repair targets no later than 3 months after USDOT establishes measures
    - MPOs select targets no later than 180 days after transit providers sets target
**Performance Accountability**

- **Target Achievement Requirements**
  - National Highway Performance Program
  - Highway Safety Improvement Program

- **Standards**
  - Interstate Pavements and NHS Bridges
  - Rural Road Safety and Older Driver Safety

- **MPO Planning Certification**

- **State Performance-Based Planning Evaluation**

- **5 Year Progress Progress Evaluation**
Implementation Schedule

<table>
<thead>
<tr>
<th>Year</th>
<th>Rulemaking</th>
<th>Planning &amp; Target Setting</th>
<th>Reporting and Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## NPRM Status

<table>
<thead>
<tr>
<th>NPRM</th>
<th>Anticipated Publication Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway Safety Program Grants (interim rule)</td>
<td>Published January 2013</td>
</tr>
<tr>
<td>Transit State of Good Repair and Safety Plan (ANPRM)</td>
<td>Published, closes January 2, 2014</td>
</tr>
<tr>
<td>Safety Performance Measures</td>
<td>January 2014</td>
</tr>
<tr>
<td>Highway Safety Improvement Program</td>
<td>January 2014</td>
</tr>
<tr>
<td>Metropolitan and Statewide Planning</td>
<td>February 2014</td>
</tr>
<tr>
<td>Asset Management Plan</td>
<td>February 2014</td>
</tr>
<tr>
<td>Pavement/Bridge Performance Measures</td>
<td>March 2014</td>
</tr>
<tr>
<td>System Performance Measures</td>
<td>May 2014</td>
</tr>
</tbody>
</table>
TPM Initiatives

- Performance Monitoring
- Training
- Reporting
- Guidebooks
- Workshops
- Pilot Programs
- Assessment and Evaluation Tools
Transportation Performance Management

North Carolina
Refining a Performance Management System

NC Refining a Performance Management System
NCDOT recognized they needed to refine their performance management system and therefore began a transformation process. (.pdf, 0.6 mb)

TPM and MAP-21
- What is TPM?
- National Goals
- MAP-21 Performance Requirements Summary
- Implementation Schedule

Engagement
- Rulemaking Stakeholder Engagement
- Readiness Stakeholder Engagement

Resources
- Tools
- Noteworthy Practices
- Presentations

News and Events
- FHWA Webinar Series: Asset Management Book Club Webinar March 27, 2013, 2:00 PM EST
- View all TPM Events
- Subscribe to email updates
Additional Resources

- MAP-21 Web Site
  www.fhwa.dot.gov/map21

- Transportation Performance Management Web Site
  www.fhwa.dot.gov/tpm

- Performance Measure Rulemaking Direct Contact to FHWA
  PerformanceMeasuresRulemaking@dot.gov

- Performance-based Planning and Programming
  http://www.fhwa.dot.gov/planning/performance_based_planning/
Thank you!

Questions?