What is TPM?

a strategic approach that uses system information to make investment and policy decisions to achieve national performance goals.
Or...

- Is a systematic, regular ongoing process
- Provides key information to understand the results of investments
- Serves to improve communications between decision makers, stakeholders and the public.
- Promotes cooperative partnerships to develop targets and measures based on data and objective information
Evolution of the Federal Program

- Build
- Project Oversight
- ISTEA
- Expand
- Process Review
- MAP-21
- Manage
- Outcome Performance
In short, TPM helps to...

- Make Better Decisions
- Make Efficient allocation of resources
- Increase Accountability and Transparency
- Improve communication with decision-makers and the public
Transition to MAP-21 Legislation

Working together

- FHWA
- VDOT
- MPOs

MAP-21

Federal Transportation Programs

Performance
## Transportation Performance Management

<table>
<thead>
<tr>
<th>Performance Areas</th>
<th>NPRM</th>
<th>Comments Due</th>
<th>Anticipated Final Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway Safety Improvement Program</td>
<td>March 28, 2014</td>
<td>Closed June 30, 2014</td>
<td>Published March 15 2016</td>
</tr>
<tr>
<td>Statewide and Metro Planning; Non-Metro Planning</td>
<td>June 2, 2014</td>
<td>Closed October 2, 2014</td>
<td>Anticipated May 2016</td>
</tr>
<tr>
<td>System Performance Measures</td>
<td>April 22, 2016</td>
<td>Open until August 20 2016 (120 days)</td>
<td>TBD</td>
</tr>
</tbody>
</table>
How will it be implemented?
Step 1.

National goal areas have been identified in MAP-21
Step 2.

FHWA will establish measures with input through rule making.
### TPM Performance Measure Categories in MAP-21

**Safety**
- Serious Injuries per VMT
- Fatalities per VMT
- Number of Serious Injuries
- Number of Fatalities

**Assets**
- Pavement Condition on the Interstates
- Pavement Condition on the Non-Interstate NHS
- Bridge Condition on NHS

**Other**
- Traffic Congestion
- On-road mobile source emissions
- Freight Movement
- Performance of Interstate System
- Performance of Non-Interstate NHS
## Calculation of Pavement Measures (490.313)

<table>
<thead>
<tr>
<th>Overall Section Condition Rating</th>
<th>3 metric ratings (IRI, cracking and rutting/faulting)</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>All three metrics rated “Good”</td>
<td>percentage of lane-miles in “Good” condition</td>
</tr>
<tr>
<td>Poor</td>
<td>&gt; 2 metrics rated “Poor”</td>
<td>percentage of lane-miles in “Poor” condition</td>
</tr>
</tbody>
</table>
## Pavement Condition Thresholds

<table>
<thead>
<tr>
<th></th>
<th>Good</th>
<th>Fair</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IRI</strong></td>
<td>&lt;95</td>
<td>95-170</td>
<td>&gt;170</td>
</tr>
<tr>
<td>(inches/mile)</td>
<td></td>
<td>95-220*</td>
<td>&gt;220*</td>
</tr>
<tr>
<td><strong>Cracking</strong></td>
<td>&lt;5</td>
<td>5-10</td>
<td>&gt;10</td>
</tr>
<tr>
<td>(%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rutting</strong></td>
<td>&lt;0.20</td>
<td>0.20-0.40</td>
<td>&gt;0.40</td>
</tr>
<tr>
<td>(inches)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Faulting</strong></td>
<td>&lt;0.05</td>
<td>0.05-0.15</td>
<td>&gt;0.15</td>
</tr>
<tr>
<td>(inches)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Urbanized Population >1M
**Pavement Metric Rating Example**

Example for an asphalt surfaced Interstate section located in a rural area

1 Poor rating and 2 Fair ratings

Overall Section Rating = Fair
VDOT and MPOs set targets that reflect measures
### Establishment of Performance Targets

**Who**
- VDOT and MPOs establish targets

**What**
- Targets required for every measure

**Where**
- Entire network or area regardless of ownership

**When**
- 4 year performance period to align with biennial reports

**Target Reporting:** Report every 2-years
Step 4.

VDOT and MPO planning process will guide program and project selection to help achieve targets
Step 5.

VDOT and MPOs report to FHWA on progress toward achieving targets
Step 6.

FHWA will assess progress towards achieving targets
## Implementation Schedule

<table>
<thead>
<tr>
<th>MAP-21</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
</tr>
</thead>
</table>
Resources

Transportation Performance Management

- FHWA TPM site: http://www.fhwa.dot.gov/tpm/
  - Recordings of all NPRM webinars

- Training (free)
  - http://www.fhwa.dot.gov/tpm/resources/training.cfm
TPM Digest: Find out the latest in TPM including: Online State Dashboards, Performance Reports, Mobility, Performance Based Planning, Safety, Events, Workshops, Webinars, Transportation Performance Management Research, and Innovation.

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

Engagement
- Rulemaking Stakeholder Engagement
- Readiness 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

Questions/Comments?

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