TPM Technical Implementation Workshop

Performance Based Planning and Programming (PBPP)

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Learning Objectives

- Implementation timeline
- Federally required performance measures
- PBPP requirements
- PBPP guidance
- PBPP resources
- Hear from regional leaders
- Questions





Implementation Timeline

Final Rule	Effective Date	States Set Targets By	MPOs Set Targets By	LRSTP, MTP, STIP and TIP Inclusion
Safety Performance Measures (PM1)	April 14, 2016	Aug. 31, 2017	Up to 180 days after the State sets targets, but not later than Feb. 27, 2018	Updates or amendments on or after May 27, 2018
Pavement/ Bridge Performance Measures (PM2)	May 20, 2017	May 20, 2018	No later than 180 days after the State(s) sets targets	Updates or amendments on or after May 20, 2019
System Performance Measures (PM3)	May 20, 2017	May 20, 2018	No later than 180 days after the State(s) sets targets	Updates or amendments on or after May 20, 2019





Safety Performance Measures

Five annual safety targets are required for State DOTs and MPOs:

- Number of fatalities
- Number of serious injuries
- Rate of fatalities per 100 million VMT
- Rate of serious injuries per 100 million VMT
- Number of nonmotorized fatalities and nonmotorized serious injuries





Pavement Condition Performance Measures

Four pavement measures:

- % of Interstate pavements in Good condition
- % of Interstate pavements in Poor condition
- % of non-Interstate NHS pavements in Good condition
- % of non-Interstate NHS pavements in Poor condition





Bridge Condition Performance Measures

Two bridge measures:

- % of NHS bridges by deck area classified in Good condition
- % of NHS bridges by deck area classified in Poor condition





System Performance Measures

Two system performance measures:

- % of reliable person-miles traveled on the Interstate
- % of reliable person-miles traveled on the noninterstate NHS





Freight Movement on the Interstate Measure

One freight performance measure:

 Truck travel time reliability on the Interstate system (average truck reliability index)





CMAQ Measures

Two measures:

- Traffic congestion
 - Peak Hour Excessive Delay (PHED) measure: annual hours of PHED per capita
 - Non-Single Occupancy Vehicle Travel (SOV) measure: % of non-SOV travel
- On-road mobile source emissions
 - Total emission reductions

PBPP and TPM: Bringing It All Together



PBPP Framework	PBPP Element	TPM Framework	TPM Elements
Strategic Direction	Goals and Objectives	National Goals	Goals and Objectives
(Where do we want to	Performance Measures	Measures	Performance Measures
go?)			
Performance Based-	Identify Targets and Trends	Targets	Targets: Technical Approach and
Planning (Analysis)	Identify Strategies	Plans	Business Process
(How are we going to get	Develop Strategy/Investment		
there?)	Priorities		Strategy Identification
	Results in long-range plans		Investment Prioritization
Performance Based-	Investment Plan	Plans	Programming Within Program
Programming	Resource Allocation		Areas
(What will it take?)	Program of Projects		Programming Across Program
			Areas
Implementation and	Reporting	Reports	Monitoring & Adjustment
Evaluation	Monitoring	Accountability	(System, Program, Project)
(How did we do?)	Evaluation	Transparency	Reporting & Communication
			(Internal & External)
Cross-Cutting Elements	Public Involvement		Organizational Culture
(Apply to Entire	Data Management		External Collaboration &
Framework)	Data Analysis		Coordination
			Data Management
			Data Usability & Analysis





PBPP: Target-Setting Coordination

States and MPOs shall coordinate when setting targets to ensure consistency to the maximum extent practicable





PBPP: Target-Setting Coordination

MPO Target Setting

- An MPO may establish its own quantifiable performance targets or
- An MPO may adopt a State's performance targets and support the State's efforts at achieving those targets

Either way, the MPO is establishing targets





Group Exercise

Discuss how the State and MPO(s) are coordinating in your State on:

- Target setting
- Data collection
- Data analysis
- Progress reporting
- Data for the NHS asset management plan





PBPP: Planning Agreements

MPO(s), State DOTs, and Public Transit Agencies shall establish written agreements for a metropolitan area describing roles and responsibilities for PBPP including:

- Coordination on target setting
- Data collection
- Data analysis
- Reporting on progress toward target achievement
- Data collection for the NHS asset management plan





PBPP: Integration of Other PB Plans

The goals, objectives, performance measures, and targets from other performance based plans and programs shall be integrated into the transportation planning process

- Examples:
 - Highway and transit asset management plans
 - Strategic Highway Safety Plan
 - Freight plans
 - Congestion management process (CMP) and plan





PBPP: MTP and LRSTP

The MTP and LRSTP shall include:

- Performance measures and targets
- A description of progress made toward target achievement since the plan's last update





PBPP: STIP and TIP

- The TIP shall be designed to promote achievement of the performance targets in the plan
- The STIP and TIP shall, to the maximum extent practicable, describe how the investments in the STIP and the TIP make progress toward achievement of the targets in the plan.





PBPP: Guidance

- LRSTP/MTP guidance
 - Measures and targets
 - Progress on target achievement
- STIP/TIP guidance
 - Description of how the STIP/TIP helps achieve targets in the LRSTP/MTP





PBPP/TPM Resources

- Planning Capacity Building Website: http://www.planning.dot.gov
- TPM Website: http://www.fhwa.dot.gov/tpm/
- Asset Management Website: <u>http://www.fhwa.dot.gov/asset/</u>
- FHWA MAP-21 Website: http://www.fhwa.dot.gov/map21





PBPP/TPM Resources

Currently Available

- NHI-138007: Performance-based Planning and Programming
- NHI-151053: Transportation Planning Process
- NHI-138004: TPM Overview for the MAP-21 and FAST Acts
- NHI-138011: The Role of Data in TPM
- NHI-138006: TPM for Safety
- NHI-138012: Steps to Effective Target Setting for TPM

In Development

- NHI-136106 and 136106B: TPM Transportation Asset Management and Asset Management Plans (being revised)
- NHI 136002: Financial Planning for Transportation Asset Management
- NHI-138005: TPM Overview (web-based)
- NHI-138008: TPM for Bridges
- NHI-138009: TPM for Pavement
- NHI-138010: TPM for Congestion (Including Freight)





PBPP/TPM Resources

TPM Capability/Maturity Model Workshop





TPM Resources

- Safety Performance Measures: Met or Made Significant Progress Determination Fact Sheet: https://safety.fhwa.dot.gov/hsip/spm/pm_progress_fs.cfm
- Technical Guidance to Support Local Computation of VMT-based Safety Performance Targets: https://www.fhwa.dot.gov/planning/processes/tools/technical_guidance/index.cfm
- Operations Performance Management: https://ops.fhwa.dot.gov/perf_measurement/



Region Leaders: Local Examples







Contacts

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Questions?



