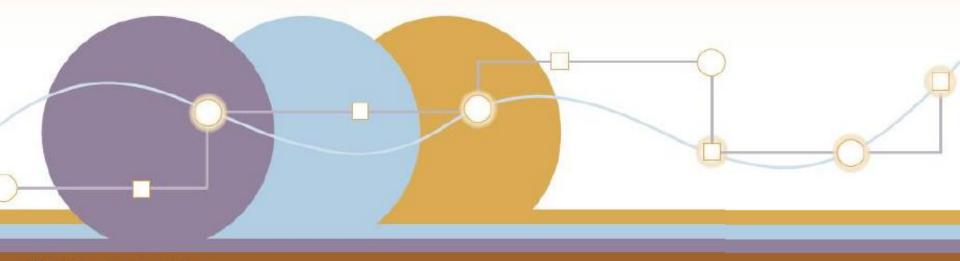
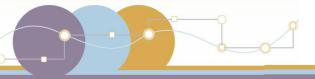
Stewardship Heavy, Oversight Light: TPM Capability Maturity Model Workshop

FHWA Office of Transportation Performance Management

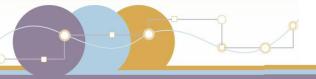


U.S. Department of Transportation Federal Highway Administration



Welcome

- Presenters
 - Michael Nesbitt, FHWA
 - Karen Miller, MoDOT
 - Susanna Hughes Reck, FHWA
 - Patricia Hendren, Spy Pond
- Support
 - Cynthia Maloney, VOLPE
 - Lauren Deaderick, VOLPE
- Roundtable Facilitators (YOU)



Welcome

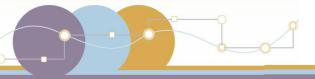
- Presentations
 - TPM-TAP and Overview of TPM CMM
 - "Baseline Development and Target Setting"
 - "Organization and Culture"
 - Performance Management Benchmarking
- Interactive Polling by text and web via PollEverywhere (it is like voting for American Idol, or the Voice, but better!!!)
- Roundtable Discussions and Report out



Poll Everywhere Test Questions

When ASKED and poll is active, respond at PollEv.com/tpmtpm808 or Text a CODE to 22333

My organization is best described as a: State DOT (10RG) □ MPO (20RG) Transit Agency (30RG) State Agency (40RG) Local Government (50RG) □ Federal Agency (6ORG) □ Private Sector (70RG) Other (80RG)



Poll Everywhere Test Questions

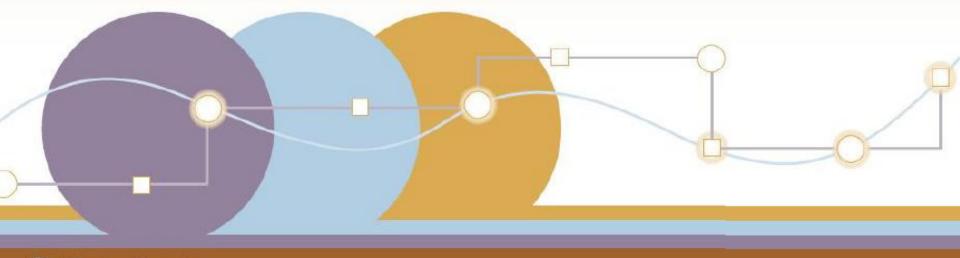
When ASKED and poll is active, respond at PollEv.com/tpmtpm808 or <u>Text 3TPM and your message</u> to 22333

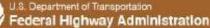
In three words, describe how you feel about feel about transportation performance management.

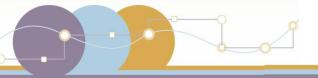


TPM Technical Assistance Program (TAP) Overview

Michael Nesbitt FHWA Office of Transportation Performance Management





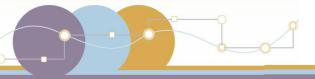


TPM TAP Purpose

• Purpose:

"to provide assistance to States, MPOs and transit agencies in a collaborative manner that reflects FHWA's stewardship heavy and oversight light approach to performance management implementation"

- Audience: YOU
 - State DOTs, MPOs and transit agencies
- Results
 - Understand current state of practice
 - Identify what is needed to get better
 - Provide new tools to help
 - Show progress
 - Note: <u>Not</u> for MAP-21 implementation compliance
 - Spur implementation of TPM principles



Overview of the 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



Technical Assistance Resources

	Assessment Elements	
Assessment Areas: TPM Programs	Governance	Management
Agency-wide	2-Aware	Not Assessed
Safety	5-Optimizing	4-Proficient
Pavements	1-Initial	5-Optimizing
Bridges	4-Proficient	4-Proficient
Investment Analysis	1-Initial	3-Defined
		and the second second

Develop TPM Capability Maturity Model (CMM)

• Date: Fall 2015

Distribute TPM Implementation Guidebook

• Date: Fall 2015

• NWU USER REGISTRATION

• NAME

• MAME

• MAME</td

TPM CMM ASSESSMENT TOOLBOX 🖻

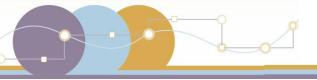
FHWA WEB-BASED PUBLICATION

SNAPSHOT TPM CMM A

Deploy TPM Toolbox that integrates TPM CMM and Guidebook

• Date: Early 2016

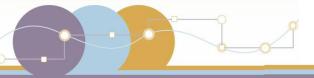
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TPM TAP Key Elements

- Focus on linking TPM to decision making
- Foster relationships between people implementing TPM
- Leverage existing frameworks and guides
- Provide flexibility to assess maturity by performance area
- Maximize impact of tools and guidance





TPM TAP Stakeholder Working Group

- Role: guide the development of products to ensure products are useful
 - Six webinars over next 12 months
 - Written comments on draft material

Specifically selected to create diversity across

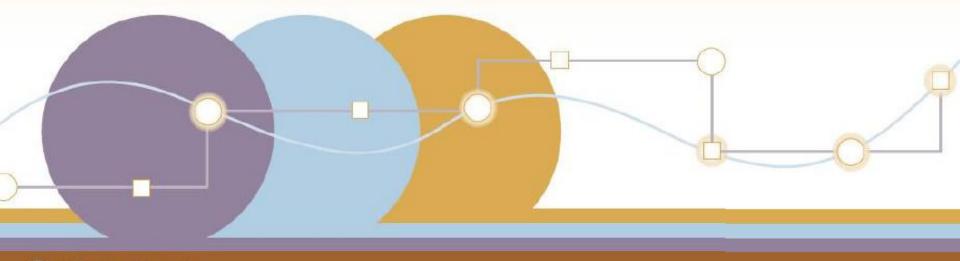
- Subject matter expertise
- Range of agencies
- Geographic representation
- Involvement in TPM

Agency	Confirmed
State DOTs	23
MPOs	8
Transit	6
National	3

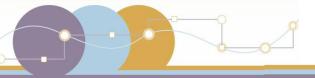


TPM Capability Maturity Model

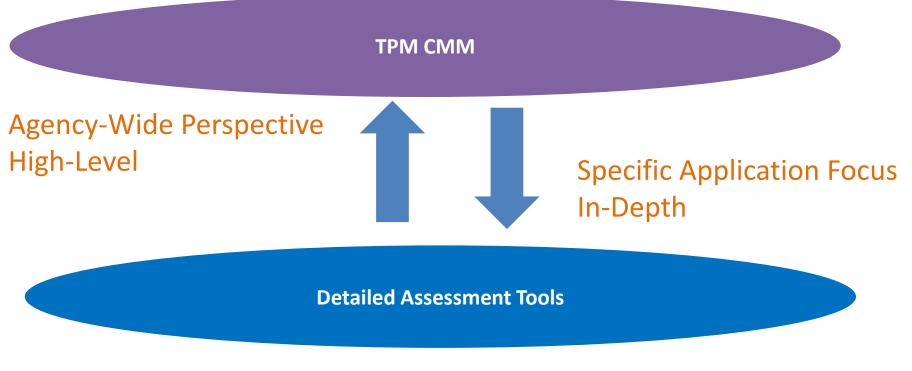
Michael Nesbitt FHWA Office of Transportation Performance Management



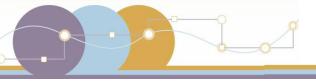
U.S. Department of Transportation Federal Highway Administration



TPM CMM's Relation to Other Tools

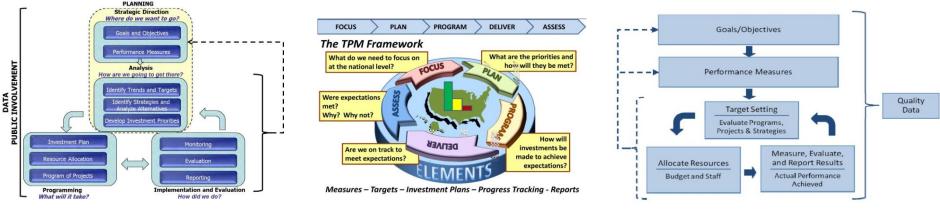


- Roadway Safety Data Capabilities Assessment
 - HSIP
- Asset Management Gap Analysis Tool
- System Operations & Management
- Corridor Management TPM Model
- Incident Management
- In Progress: Traffic Management, Road Weather, Special Events, Work Zones, Signals

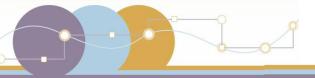


CMM: Framework Considerations

- 1. Grounded in maturity model practices and recent transportation related assessment models
- 2. Balance "too few" components vs "too complicated"
- 3. Move dialogue from "what is TPM" to "**HOW** to do it"
- 4. Ability to distinguish maturity by performance areas
- 5. Align with current research on data quality and management
- 6. Reflect recent performance management frameworks



U.S. Department of Transportation Federal Highway Administration Final



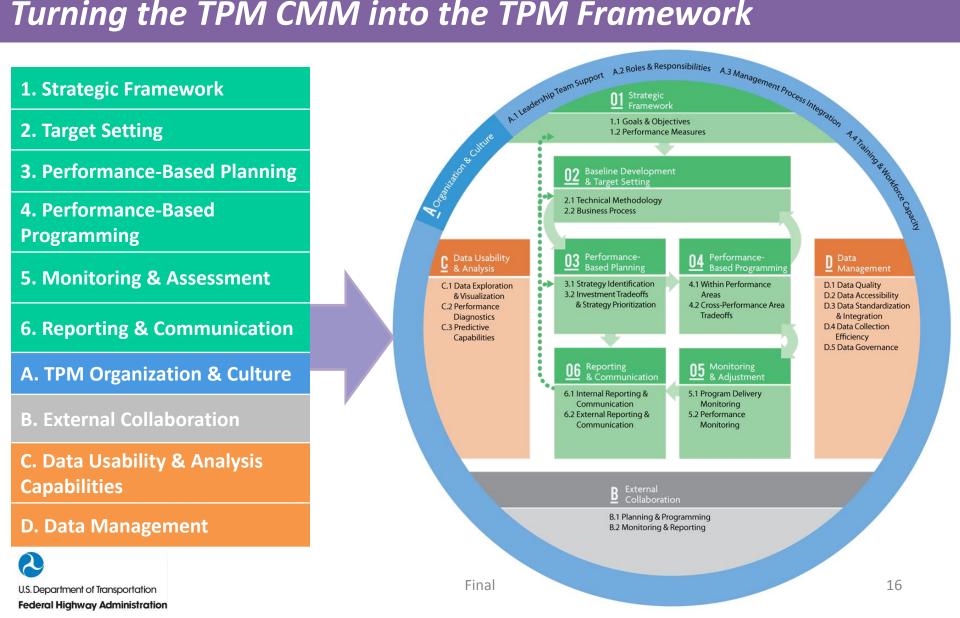
The 10 Components of the TPM CMM:

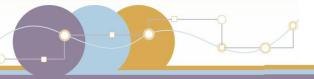
- 1. Strategic Framework
- 2. Target Setting
- 3. Performance-Based Planning
- 4. Performance-Based Programming
- 5. Monitoring & Assessment
- 6. Reporting & Communication
- A. TPM Organization & Culture
- **B. External Collaboration**
- C. Data Usability & Analysis Capabilities

D. Data Management

Transportation Performance Management

Turning the TPM CMM into the TPM Framework

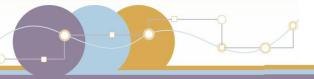




Federal Highway Administration

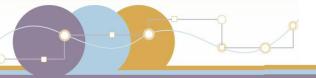
Drafting Maturity Levels: Considerations

- Consistency with existing guidance on TPM (e.g., PBPP)
- Coverage of people, process, and technology
- Reflect terminology in existing models (e.g., TSM&O)
- Align with current research on data assessment
- Preliminary list of actions naturally flow
 - NOTE: Guidebook will cover the "how to"
- Based in <u>real world</u> agency examples
- Remain faithful to the generic maturity level descriptions
 Final
 Final
 17



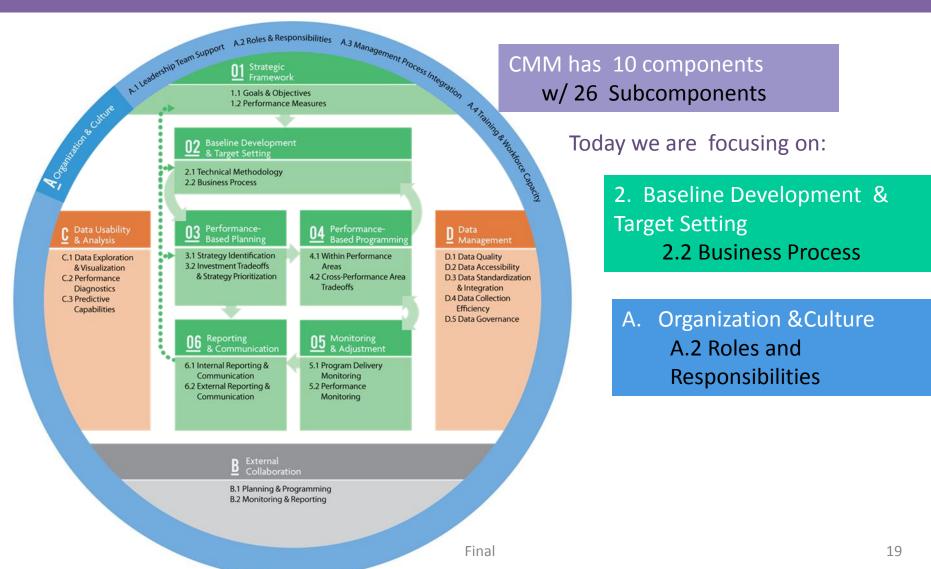
TPM CMM Levels of Maturity

Level	Definition
1.Initial	Ad hoc, uncoordinated, firefighting, champion-dependent
2.Developing	Nominal framework (e.g., organizational roles) being defined and systematic approaches starting to emerge
3.Defined	Framework and systems defined but not fully implemented or effectively supporting decision making
4.Functioning	TPM practices have been institutionalized , information used to guide actions, data improvements being pursued, basic predictive and tradeoff capabilities in place
5.Sustained	TPM will survive across new leadership, managers using performance information, data effectively managed, and external stakeholders view performance results as useful in promoting accountability and transparency
~	



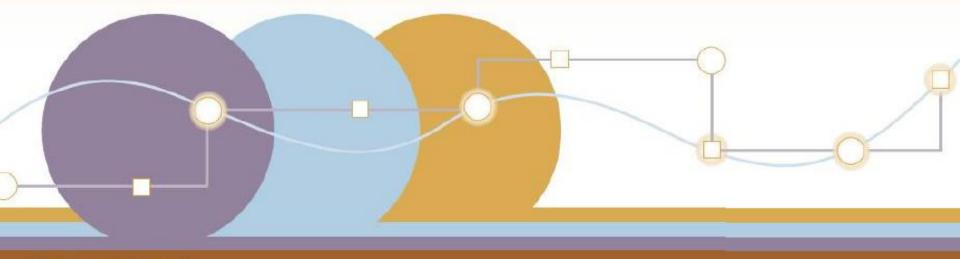
Transportation Performance Management

TPM Framework

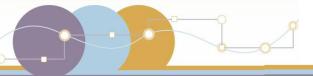


Baseline Development & Target Setting

FHWA Office of Transportation Performance Management



U.S. Department of Transportation Federal Highway Administration



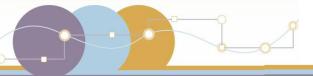
CMM Component 2: Baseline Development and Target Setting

BASELINE DEVELOPMENT AND TARGET SETTING

DEFINITION: The use of baseline data, information on possible strategies, funding constraints and forecasting tools to collaboratively set targets.

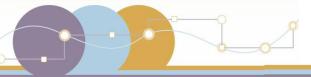
SUBCOMPONENTS:

- 2.1 Technical Approach
- 2.2. <u>Business Process</u>: Establishment of an internal agency process including internal coordination and collaboration to set and modify performance targets.



CMM Component 2: Baseline Development and Target Setting—2.2 Business Processes

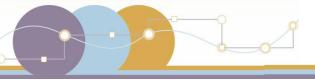
Level	Description of Maturity Level
Initial	no defined business process to review performance trends, establish
	benchmarks or set targets.
Developing	coordinated and collaborative process is under development to review trends
	and establish benchmarks or targets
	Staff responsibilities and roles in this process are being clarified.
Defined	Documented process for how targets will be set, formally approved and
	process for how benchmarks will be identified, reported and reviewed –
	including steps, roles and responsibilities.
Functioning	Process is an integral component of planning, budgeting, staffing, and
	employee performance evaluations.
Sustained	Agency has applied process for multiple cycles. Approach is being continually refined as needed to address organizational structure changes



CMM Component 2: Baseline Development and Target Setting—2.2 Business Processes

For every level of maturity, there is a list of actions to describe WHAT to do to move to the next maturity level. These actions will eventually be linked to the guidebook that will detail HOW to complete the actions.

Level	Description	ACTIONS to move to next level:
Developing	coordinated and collaborative	
	process is under development to	Initiate discussions about the approach to be
	review trends and establish	used for either benchmarking or target setting
	benchmarks or targets	within different agency performance areas.
	Staff responsibilities and roles in this	
	process are being clarified.	
Defined	Documented process for how targe	Integrate use of benchmarks and/or targets
	will be set, formally approved and	into planning, programming, budgeting, staff
	process for how benchmarks will be	allocation and employee performance
	identified, reported and reviewed –	evaluations.
	including steps, roles and	
	responsibilities	



Poll Anywhere and Roundtable Discussion

When poll is active, respond at PollEv.com/tpmtpm808 or Text a CODE to 22333

What level are you at under subcomponent 2.2?

- Initial Level 1 (1TSB)
- Developing Level 2 (2TSB)
- Defined Level 3 (3TSB)
- □ Functioning Level 4 (4TSB)
- Sustained Level 5 (5TSB)

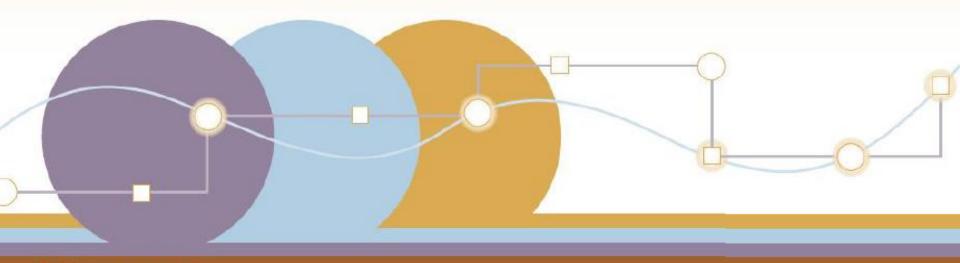


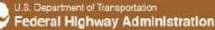


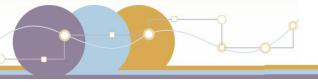
MoDOT's Target Setting Business Process

Karen Miller, MoDOT









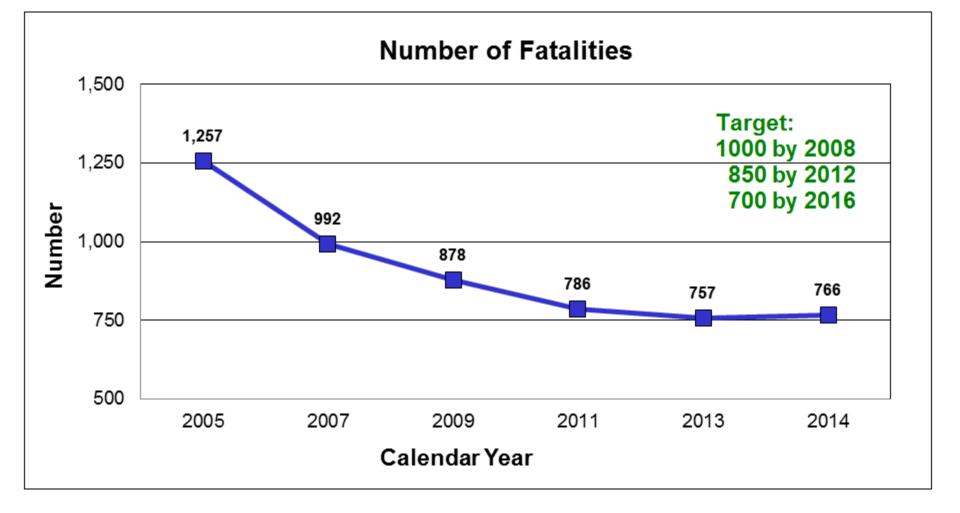
MoDOT's Experience

- Target Setting Business Process
 - -"Show Me" Your Data
 - -Strategies
 - -Projections
 - -Target
 - -Review and Adjust

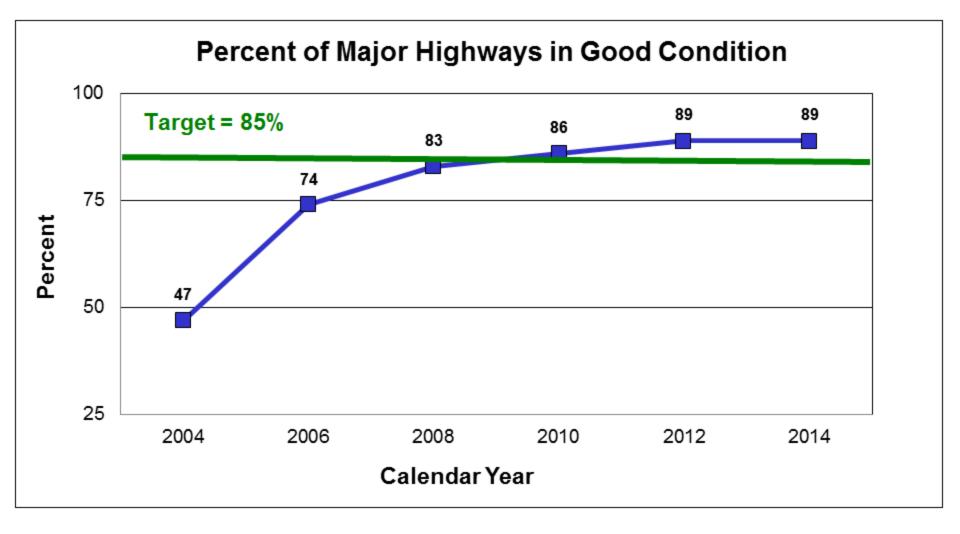




Transportation Performance Management

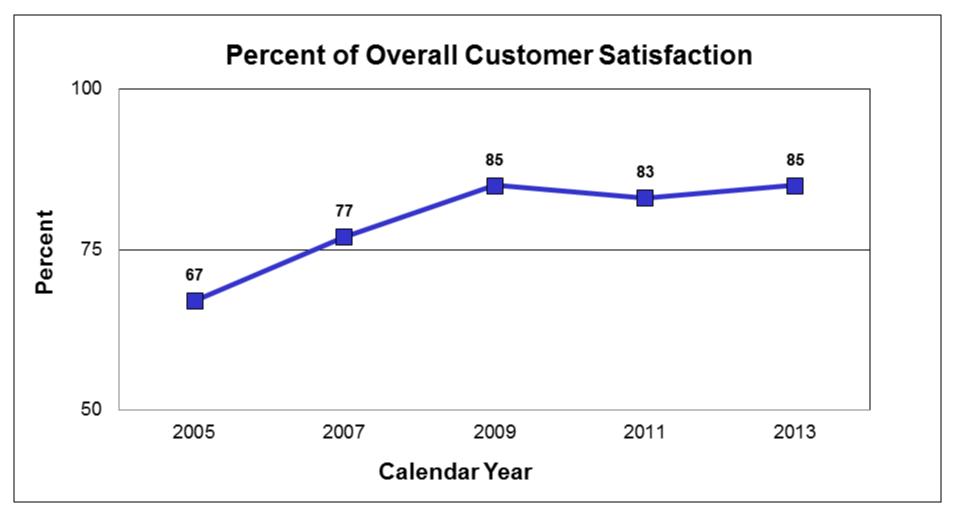




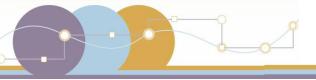












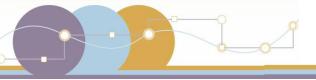
Poll Anywhere and Roundtable Discussion

When poll is active, respond at PollEv.com/tpmtpm808 or **Text BIGT** and your message to 22333

Using no more than 4 words, what is your biggest challenge in developing targets?







Poll Anywhere and Roundtable Discussion

Roundtable Discussion

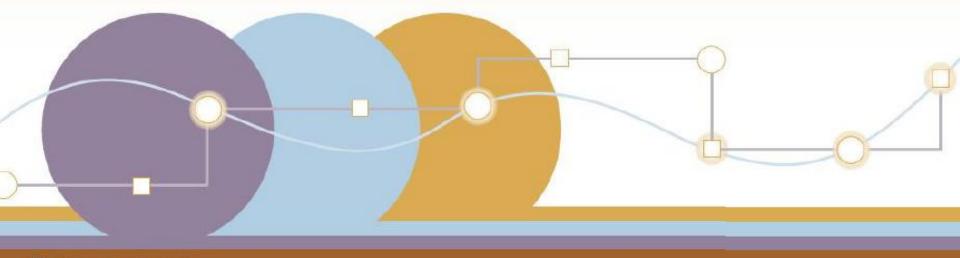
- Discuss the challenges you face in developing targets.
- Discuss the maturity level you selected in the poll.
- Share any best practices on target setting.



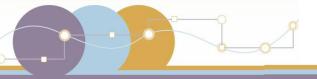


TPM Organization & Culture

FHWA Office of Transportation Performance Management



U.S. Department of Transportation Federal Highway Administration



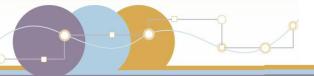
TPM CMM Component A: TPM Organization & Culture

TPM ORGANIZATION & CULTURE

DEFINITION: Institutionalization of a performance management culture within the organization, as evidenced by leadership support, employee buy-in, and embedded organizational structures and processes that support performance management.

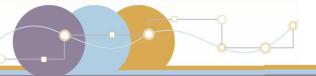
SUBCOMPONENTS:

- A.1. Leadership Team Support
- A.2. <u>Roles and Responsibilities:</u> Organizational structure and clearly designated and resourced positions that support effective execution of performance management. Established accountability for meeting performance outcomes.
- A.3. Management Process Integration
- A.4. Training and Workforce Capacity



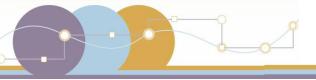
TPM CMM Component A: TPM Organization & Culture— A.2. Roles and Responsibilities

Level	Description.
INITIAL	
(Level 1)	
DEVELOPING (Level 2)	
DEFINED	Roles and responsibilities for performance management have been defined,
(Level 3)	but not yet fully implemented.
FUNCTIONING	Staff at multiple levels of the organization understand their roles with
(Level 4)	respect to performance management practices.
	A clear organizational structure for performance management is in place -
	with sufficient budget and staffing.
SUSTAINED	Ander and responsibilities are periodically relevant to reflect the adoption of
(Level 5)	
	- Final 3/



TPM CMM Component A: TPM Organization & Culture—A.2. Roles and Responsibilities

Level	Description	ACTIONS to move to next level:
DEFINED	Roles and responsibilities for	Clearly identify staff
(Level 3)	performance management have been	responsibilities for the
	defined, but not yet fully	performance management
	implemented.	practices, its deployment and its
		maintenance.
FUNCTIONING	Staff at multiple levels of the	Integrate mentoring and
(Level 4)	organization understand their roles	succession planning to minimize
	with respect to performance	the risks related to the loss of key
	management practices.	staff knowledge and skills in
	A clear organizational structure for	performance management.
	performance management is in place	-
	with sufficient budget and staffing.	



Poll Anywhere and Roundtable Discussion

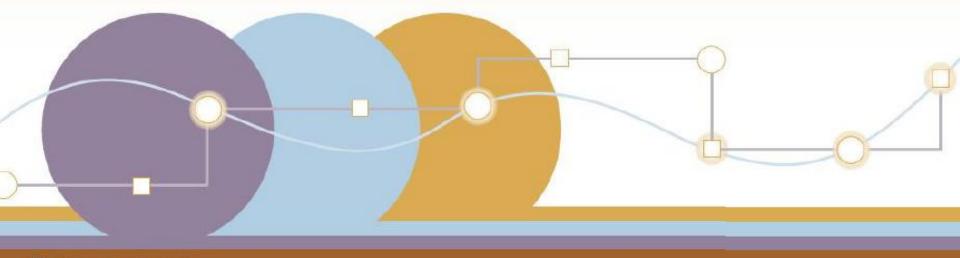
When a poll is active, respond at PollEv.com/tpmtpm808 or Text a CODE to 22333

What level are you (your agency, organization, etc) at under subcomponent A.2?

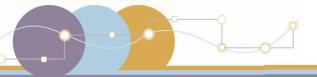
- □ Initial Level 1 (1ROLE)
- Developing Level 2 (2ROLE)
- Defined Level 3 (3ROLE)
- Functioning Level 4 (4ROLE)
- □ Sustained Level 5 (5ROLE)

The Evolution of FHWA's TPM Roles and Responsibilities

Susanna Hughes Reck FHWA Office of Transportation Performance Management



U.S. Department of Transportation Federal Highway Administration



Why is TPM Important to FHWA? (it is not just b/c Congress said so)

- Natural evolution to improve decision making and resource allocation
- Improves transparency and accountability for federal funds



ERRR



TOO BUSY TO IMPROVE?

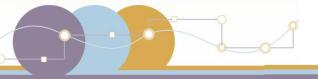
CAN'T STOP.

TOO BUSY !!

 Opportunity to advance performance management practices

WorkC@mpass



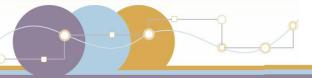


Purpose of Roles and Responsibility Project

- Identify what FHWA would most likely be doing to administer & support a performance-based Federalaid Highway Program.
- Assess:
 - What are the roles?
 - When will they occur?
 - How will they be conducted?
 - Which units have the responsibility?





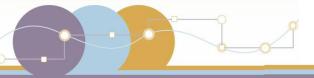


Purpose of Project: Roles & Responsibilities...

- **Is**:
 - A means of identifying and vetting Federal roles
 - An understanding of unit responsibilities
 - An assessment of preparation needs
 - A project that will evolve with rulemaking

• Is Not:

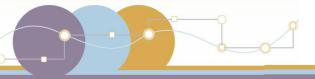
- Agency's staffing plan
- Program guidance
- Operating procedures
- The final word roles will evolve



Internal Challenges to Address

Internal challenges

- □ Overcome the language usage already in existence
- □ Coordination among the various owners to make sure [are] on the same page
- Getting buy-in from offices already ahead
- Coordination with all other groups
- Don't have knowledge or skills
- □ Preparing to take on new responsibilities and letting go of other responsibilities
- Managing staff expectations
- Initiative fatigue and sense of urgency
- Resistance to change
- □ ? Don't screw with it; or rush it



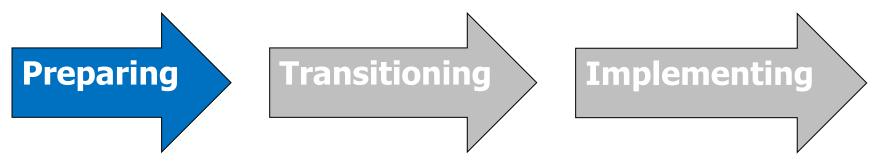
Focus for FHWA – Phased Approach to TPM Implementation

Phase 1 → *Preparing* (before authorization) — Positioning FHWA by building our strength

Phase 2 → Transitioning (enactment of law)
— Clearly define staff roles and responsibilities

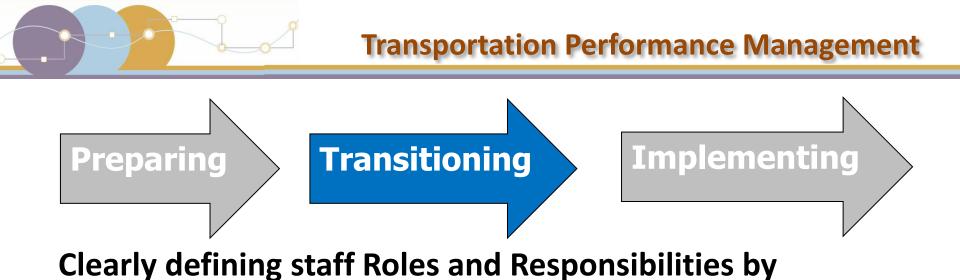
Phase 3 → Implementing (after regulations are in place)
 – Engaging with States on implementing TPM

Transportation Performance Management

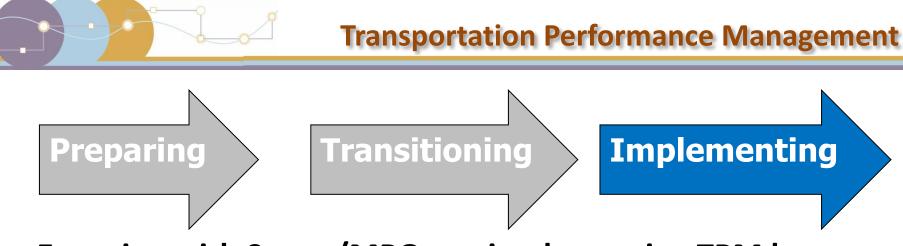


Positioned FHWA to Build on our strength by

- Creating an Office to lead TPM change management effort
- Identifying possible TPM Roles and Responsibilities
 - Reviewing current Knowledge, Skills, and Abilities (KSAs) and developing new KSAs
 - Gap Analysis
 - Competency Models
- After MAP-21 released, refined TPM Roles and Responsibilities
 - Established work plan
 - Identified Training Champions throughout FHWA (HQ and Divisions)

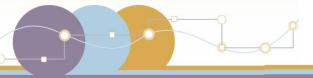


- Developed an internal Roles and Responsibility Report guide to clearly outline individual TPM roles and responsibilities
- Evaluating Division Offices Readiness to assist States with performance management
- Conducting a National review that assess the implementation of program performance



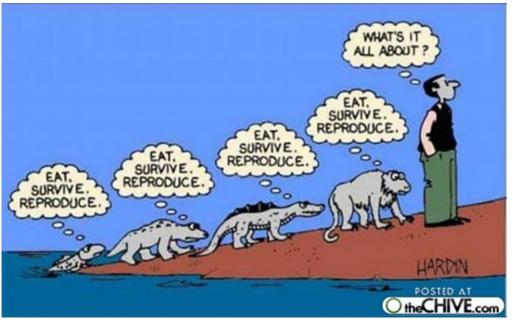
Engaging with States/MPOs on implementing TPM by

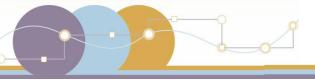
- Conducting ongoing National Assessments on implementation of program performance
- Provide Division Offices with resources to help States/MPOs with performance management
- Developing internal feedback loops to monitor progress and adjust roles and responsibilities



Lessons Learned from Roles and Responsibilities Project

- Lesson Learned:
 - Defining Roles and Responsibilities Takes Time
 - TPM is Evolution, not Revolution
 - Being asked questions is a sign of progress

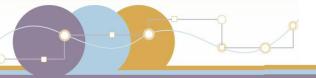




Poll Anywhere and Roundtable Discussion

When poll is active, respond at PollEv.com/tpmtpm808 or **BIGR** and your message to 22333

Using no more than 4 words, what is your biggest challenge in defining roles and responsibilities?

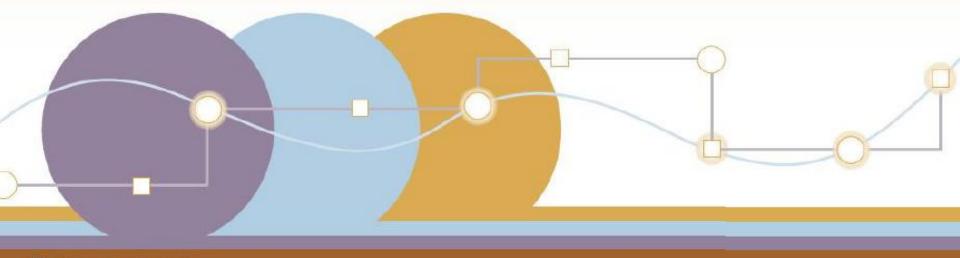


Poll Anywhere and Roundtable Discussion

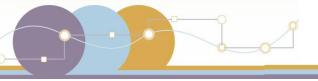
- Roundtable Discussion
 - Discuss the maturity level you selected in the poll.
 - If your agency wanted to move up a Maturity Level, are the actions listed in the subcomponent A.2 table appropriate? What would actions would you recommend?

TPM Benchmarking

Patricia Hendren Spy Pond Partners



U.S. Department of Transportation Federal Highway Administration



Poll Anywhere Question

- When ASKED and poll is active, respond at **PollEv.com/tpmtpm808** or **Text a CODE to 22333**
- What does "**benchmarking**" mean to you:
- Comparing your current agency results to prior results (1MARK)
- Comparing your agency results to other agencies (2MARK)
- Comparing your agency results to "the best" (3MARK)
- Trepidation (4MARK)
- All the above (5MARK)

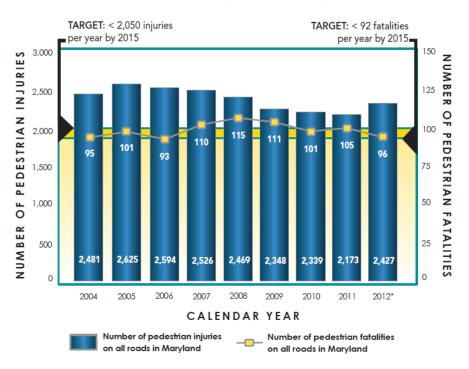


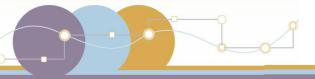
TPM Benchmarking: Against Yourself

Why?

- See trends over time
- Evaluate impact of actions
- Clear understanding of data and measure definition
- Continually push improvement

Number of Pedestrian Fatalities and Injuries on All Maryland Roads

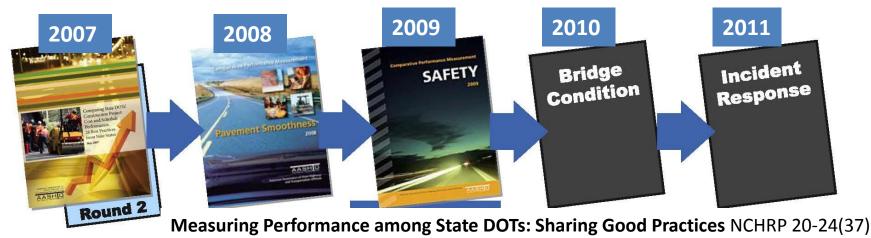


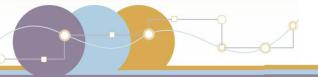


TPM Benchmarking: Against Other Agencies

Why?

- Learn from peers
- Identification and implementation of best practices
- Communication of regional and national trends
- Requires- agreed upon data sources and measure definition
- This will take time





Transportation Performance Management

TPM Benchmarking: WARNING... must consider attributes



JANUARY 12, 2012, 11:17 A.M. ET By Mia Lamar, Dow Jones Newswires

> The DOT's Bureau of Transportation Statistics said ... Hawaiian Airlines was the most on-time carrier with a 92% punctuality rating

Chicago Tribune Breaking News, Since 1847

March 09, 2010 By Jon Hilkevitch, Tribune reporter

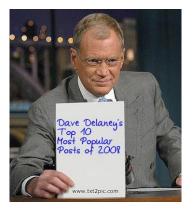
U.S. Department of Transportation reported... Chicago Midway Airport ranks last in on-time departures among nation's 29 busiest airports



Transportation Performance Management

TPM Benchmarking ≢ A list of "best" to "worst"

Top-10 List from David Letterman Funny



Top-10 List of Employee Injuries from WMATA

Not Funny Not Helpful Not Useful



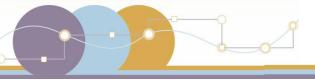
Ranking Problems:

- Ignores environmental risks with some jobs
- Snapshots don't convey improvement or not
- Data is blind to relative severity of injuries
- No linkage to individuals with responsibility
- Leads to winners & losers . . . Blame culture
- Doesn't create actionable info to improve safety

- on

SMNT Power 4.61 (5)

- and on
- and on



Poll Anywhere and Roundtable Discussion

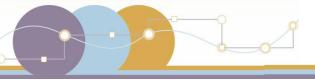
When poll is active, respond at **PollEv.com/tpmtpm808** or **Text a CODE** to 22333

Has your agency been compared to another agency?

Yes (YESTPM) No (NOTPM)





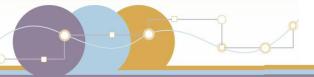


Poll Anywhere and Roundtable Discussion

- Roundtable Discussion
 - Share an example of when you agency has been compared to another agency (good example and bad example)
 - Discuss ideas on how to avoid "bad" benchmarking



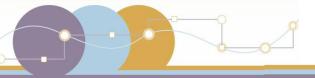




Transportation Performance Management

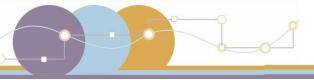
Questions on Almost Everything (But Rulemaking ©)

QUESTIONS COMMENTS



Upcoming TPM-TAP Products

	Activity	Focus
Spring 2015	Complete Internal Division Readiness Assessment	FHWA Staff
Summer 2015	Complete Development on CMM	СММ
Summer 2015	Begin Development on Guidebook	Guidebook
Summer 2015	• Peer Exchange on TPM-GIS (Spokane, WA)	Peer Exchange
Fall 2015	 Publish TPM CMM Publish TPM Guidebook Webinars on TPM CMM and Guidebook 	Guidebook
Early 2016	TPM Toolbox	TPM TAP Portal
Spring 2016	National TPM Implementation Review	Nat. Review
Spring 2016	 Begin holding workshops and Peer Exchanges (8 Workshops /1 Peer Exchange scheduled for CY 2016) 	Workshops/ Peer Exchanges



THANK YOU AND KEEP IN TOUCH!

- FHWA TPM TAP and TPM CMM:
 - <u>Michael Nesbitt (michael.nesbitt@dot.gov</u>)
- FHWA TPM Institutional Capacity Building Team:
 - Susanna Hughes Reck (<u>susanna.hughesreck@dot.gov</u>)
- Missouri Department of Transportation:
 Karen Miller (<u>Karen.Miller@modot.mo.gov</u>)
- Spy Pond Partners:
 - Patricia Hendren (<u>phendren@spypondpartners.com</u>)