TPM Technical Implementation Workshop

TPM Performance Reporting: Telling Our Story

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Phoenix, AZ

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U.S. Department of Transportation
Federal Highway Administration

Objectives

- 23 USC 150(e) Performance Report Requirements
- TPM Portal
- Performance Website Display
- Performance Storytelling
- Performance Dashboard

Performance Reporting & Portal

U.S. Department of Transportation
Federal Highway Administration

Acronyms

- NHPP: National Highway Performance Program
- NHFP: National Highway Freight Program
- HSIP: Highway Safety Improvement Program
- CMM: Capability Maturity Model
- PCB: Professional Capacity Building

Why Report on Performance?

- Evaluate the impact of federal-aid funds on the national goal areas
- Report to the public on pavement and bridge conditions, congestion/air quality, freight, significant progress and target achievement in each State
- Report to Congress on the condition and performance of the Federal-aid highway system

How Will States Report on Performance?

- Under 23 USC 150(e), a Biennial Report is required every two years that must include~~s~~ at a minimum:
  - NHS condition and performance
  - Progress in achieving performance targets
  - Effectiveness of the investment strategies in the State's NHS asset management plan
  - How freight bottleneck congestion is being addressed

Performance Reporting: What's Required

Reports:

- **Baseline** Report by Oct. 1 of the first performance year
- **Mid Period** Progress Report by Oct. 1 of the third performance year
- **Full Period** Progress Report by Oct. 1 of the fifth year **following** the performance period

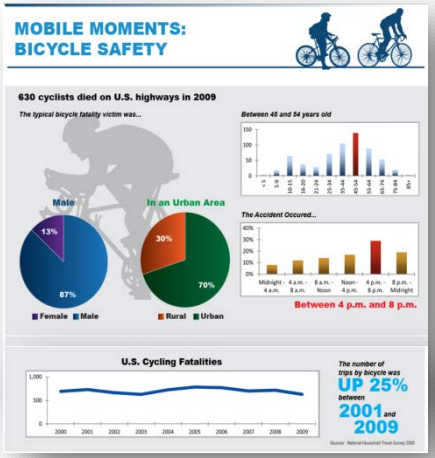
Performance Progress Report Includes (for all content requirements, see 23 CFR 490.107)

Contents	Baseline	Mid Period	Full Period
2-year targets	X		
4-year targets	X		
Basis for targets	X		
Baseline conditions/truck freight bottlenecks	X		
Ties to other plans	X		
Actual conditions		X	X
Progress discussion/truck freight bottlenecks		X	X
Investment strategy discussion		X	X
Adjusted four-year targets		X	
Extenuating circumstances		X	X
NHPP/NHFP target achievement discussion		X	X

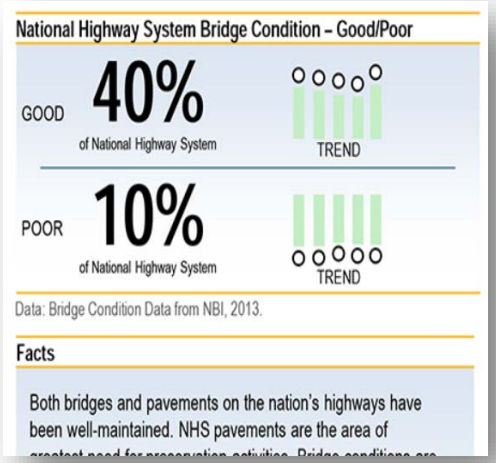
Performance Reporting

State DOT Progress Reporting Portal

Performance Storytelling



Performance Reports

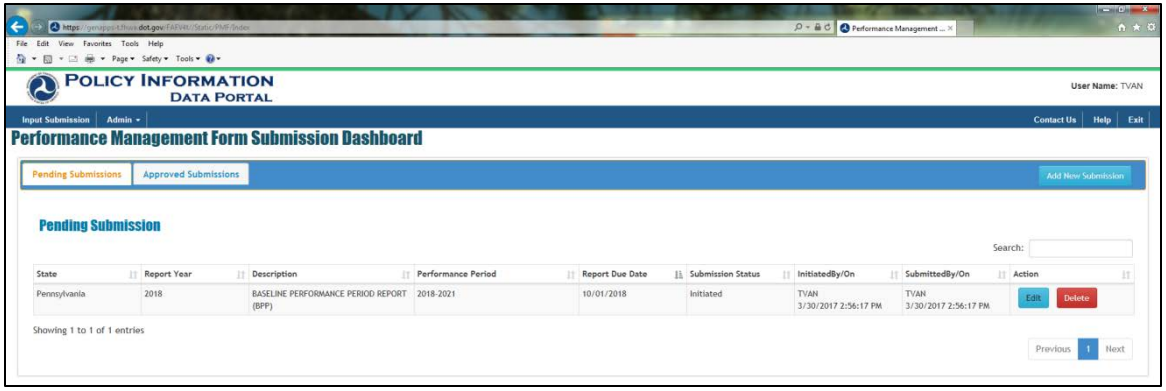


Reporting Portal

- Under development
- Demonstrate in 2018
- Training will be offered
- Today's discussion is illustrative only

Biennial Performance Reporting Process

- States will submit their performance reports through an online portal that FHWA is developing
- Among other things, States will be able to describe extenuating circumstances and reasons for meeting or not meeting targets



Performance Management Sample Form

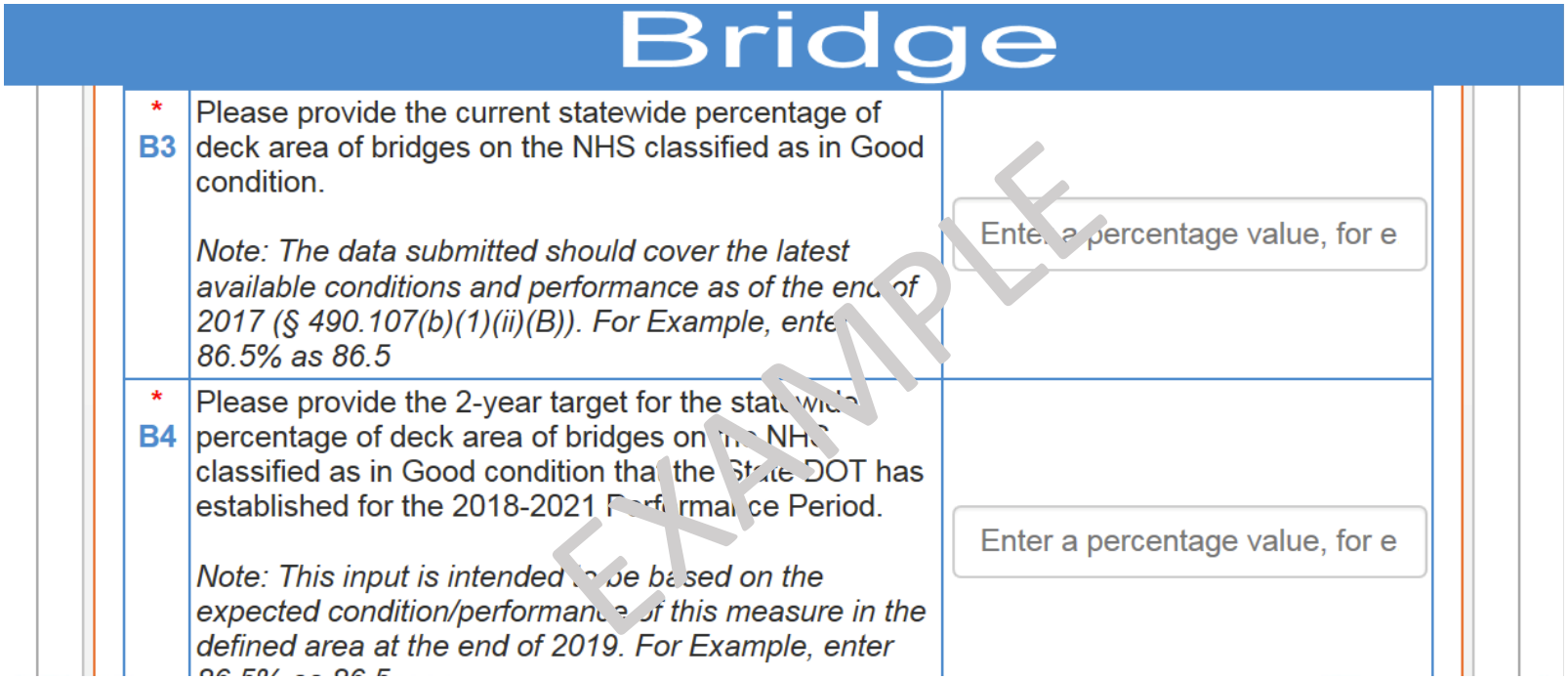
State	Report Year	Report Type	Performance Period	Report Due Date
Delaware	2018	BASELINE PERFORMANCE PERIOD REPORT (BPP)	2018-2021	10/01/2018

Overview | Attachment | Pavement | Bridge | Congestion | Peak Hour | Freight | Reliability

Emissions - Part I | Emissions - Part II

EXAMPLE

Bridge Performance Measures Sample Form

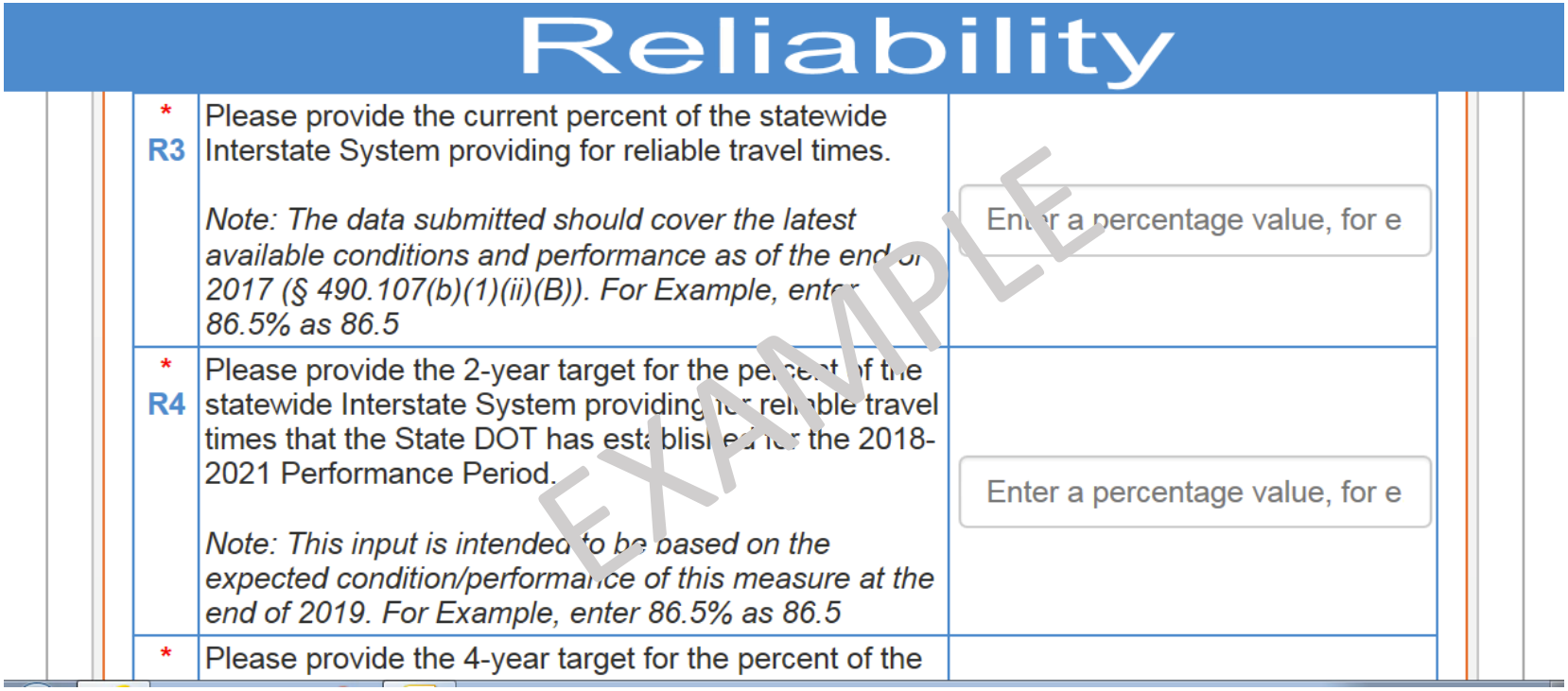


Bridge

* B3	Please provide the current statewide percentage of deck area of bridges on the NHS classified as in Good condition. *Note: The data submitted should cover the latest available conditions and performance as of the end of 2017 (§ 490.107(b)(1)(ii)(B)). For Example, enter 86.5% as 86.5*	Enter a percentage value, for e
* B4	Please provide the 2-year target for the statewide percentage of deck area of bridges on the NHS classified as in Good condition that the State DOT has established for the 2018-2021 Performance Period. *Note: This input is intended to be based on the expected condition/performance of this measure in the defined area at the end of 2019. For Example, enter*	Enter a percentage value, for e

EXAMPLE

Reliability Sample Form



Reliability

* R3	Please provide the current percent of the statewide Interstate System providing for reliable travel times. *Note: The data submitted should cover the latest available conditions and performance as of the end of 2017 (§ 490.107(b)(1)(ii)(B)). For Example, enter 86.5% as 86.5*	Enter a percentage value, for e
* R4	Please provide the 2-year target for the percent of the statewide Interstate System providing for reliable travel times that the State DOT has established for the 2018-2021 Performance Period. *Note: This input is intended to be based on the expected condition/performance of this measure at the end of 2019. For Example, enter 86.5% as 86.5*	Enter a percentage value, for e
*	Please provide the 4-year target for the percent of the	

EXAMPLE

Performance Website

Transparency

- Make performance elements regularly available to the public
  - Internal communications
  - External communications
  - Feedback loop

- USDOT will facilitate transparency through use of web-based dashboard to communicate aggregated performance results

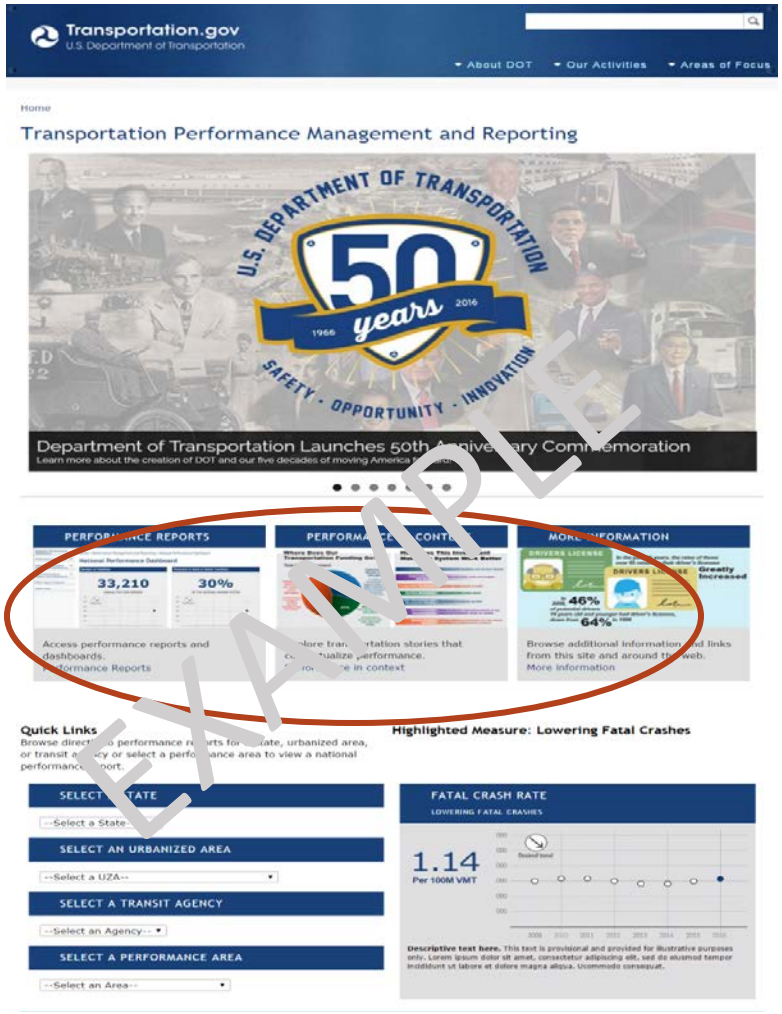
ONEDOT Performance Website Purpose

- Display performance data received from States
- Display performance targets received from States
- Incorporate transit performance information
- Create a foundation for a multimodal performance reporting
- Include significant progress determination toward achieving NHPP, NHFP and HSIP targets

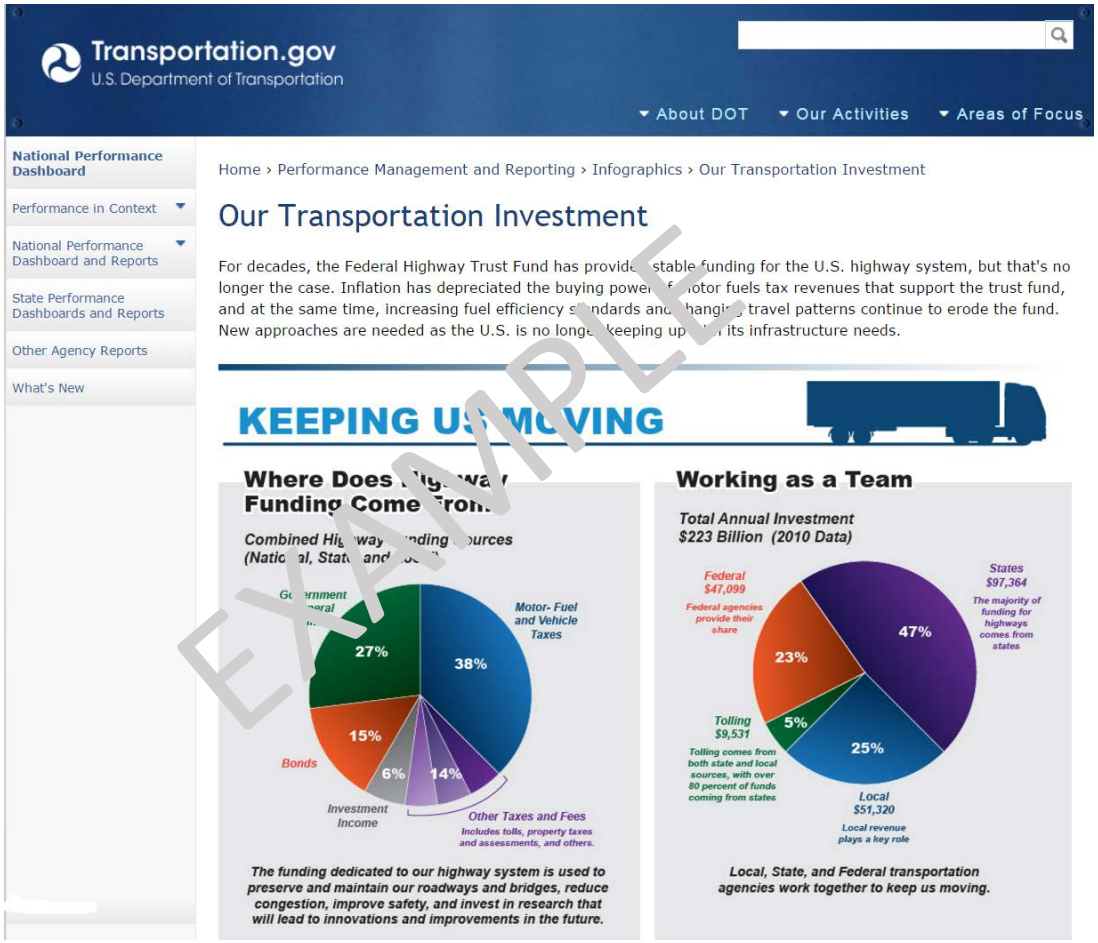
Website Overview

- 1st Phase
  - Transportation stories
  - Performance reporting area
  - Dashboard
  - Static content
- 2nd Phase
  - Dynamic content (data driven)
  - Embedded tools
  - Users create reports

Landing Page



Performance Storytelling



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Federal Highway Administration

Performance Storytelling

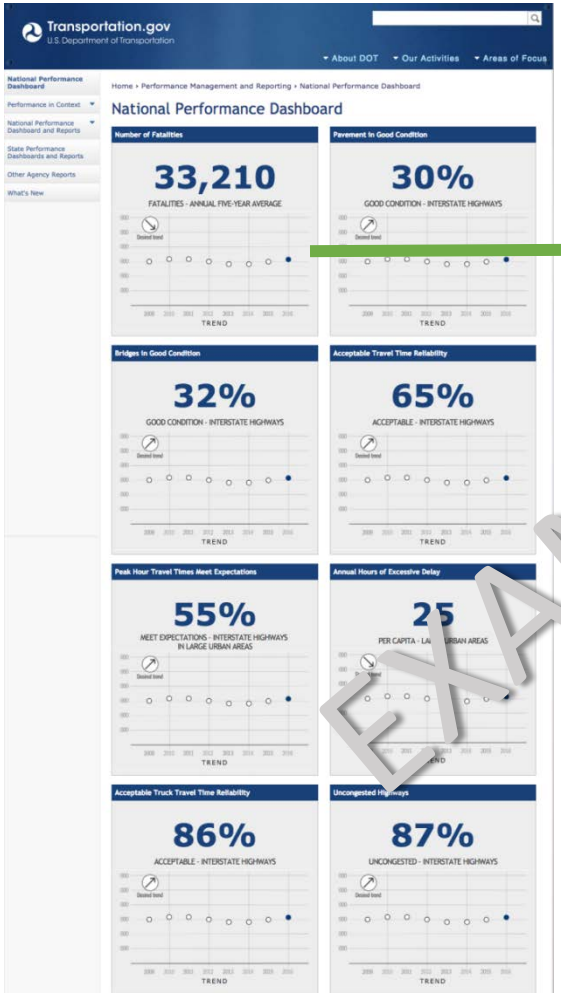
EXAMPLE

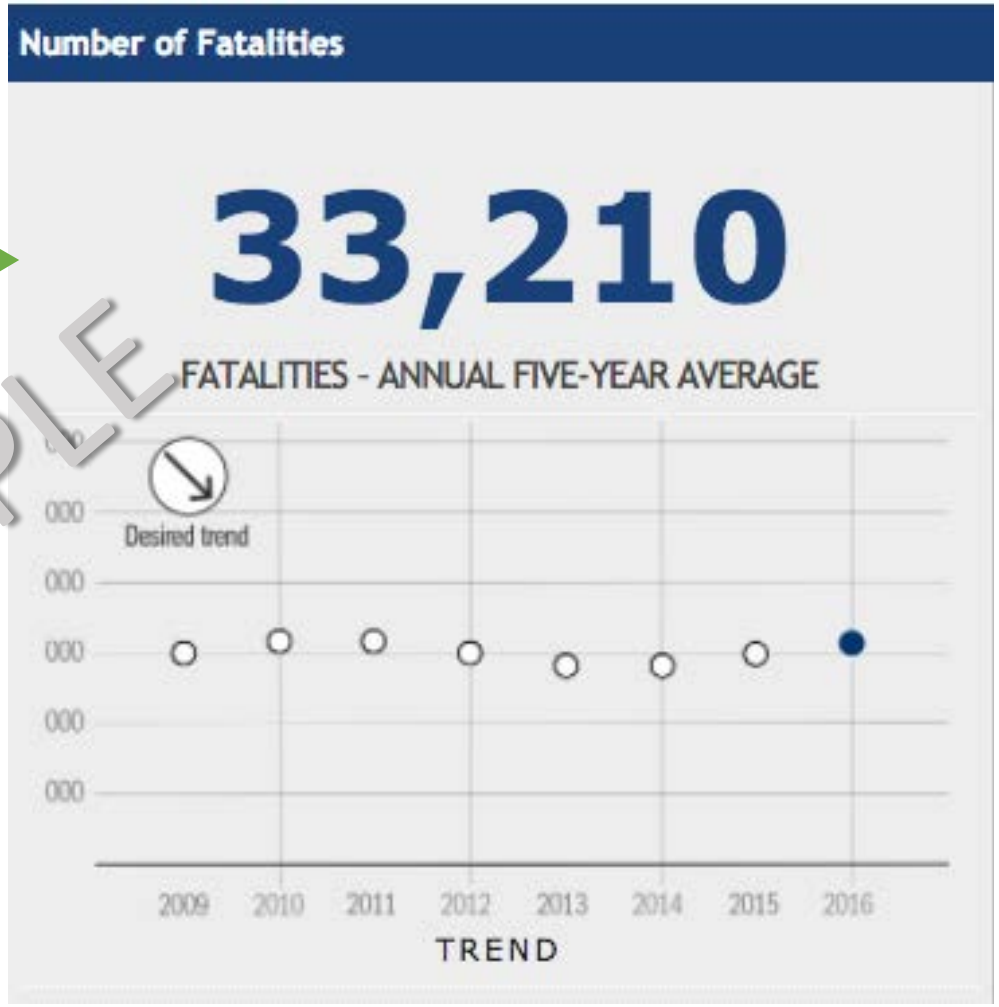
Performance Storytelling

Performance Reporting Area

- National and State dashboards show:
  - Trends and projections
  - Measure area performance reports on a national level
  - Individual State performance reports, including targets and significant progress determinations
  - Individual large urbanized area performance reports

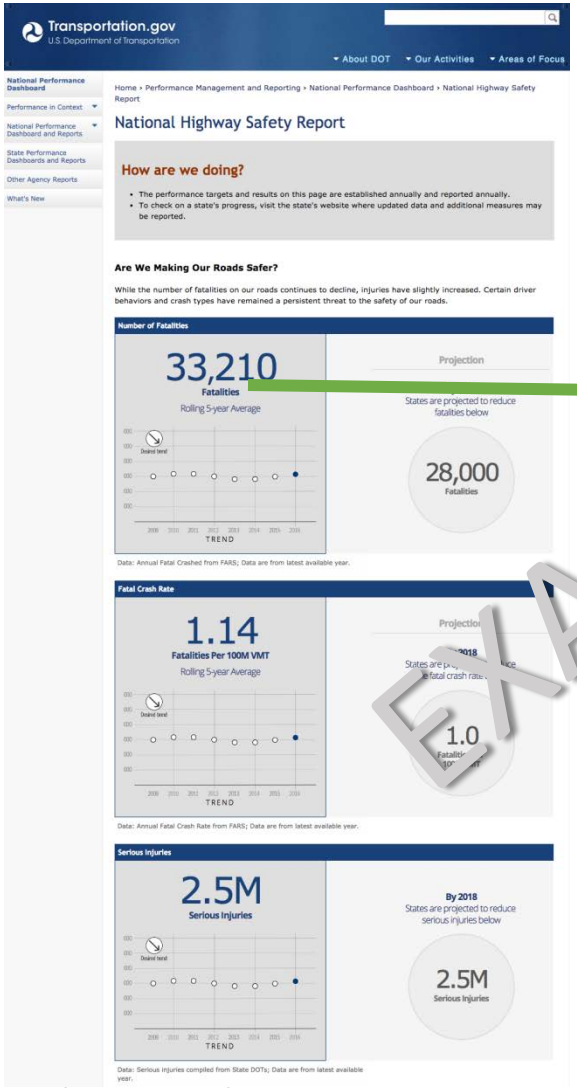
National Dashboard

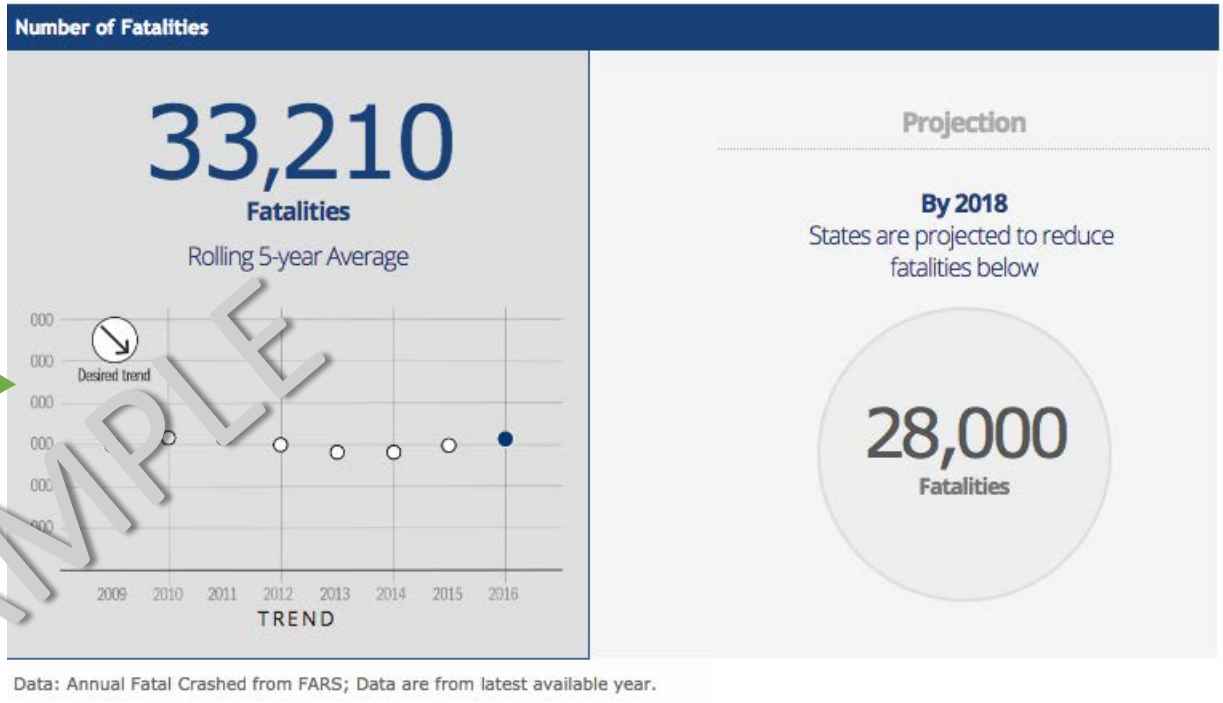




EXAMPLE

National Performance Area Reports

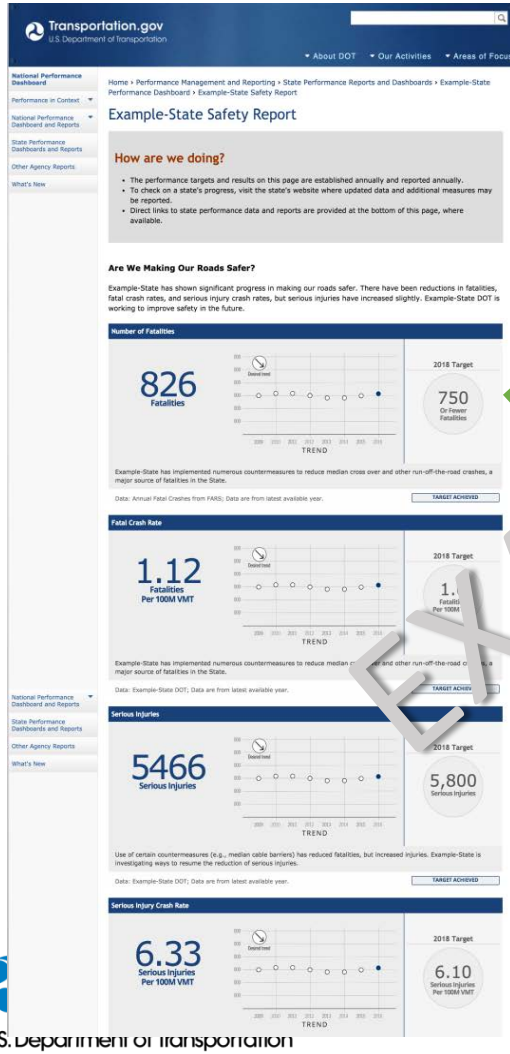


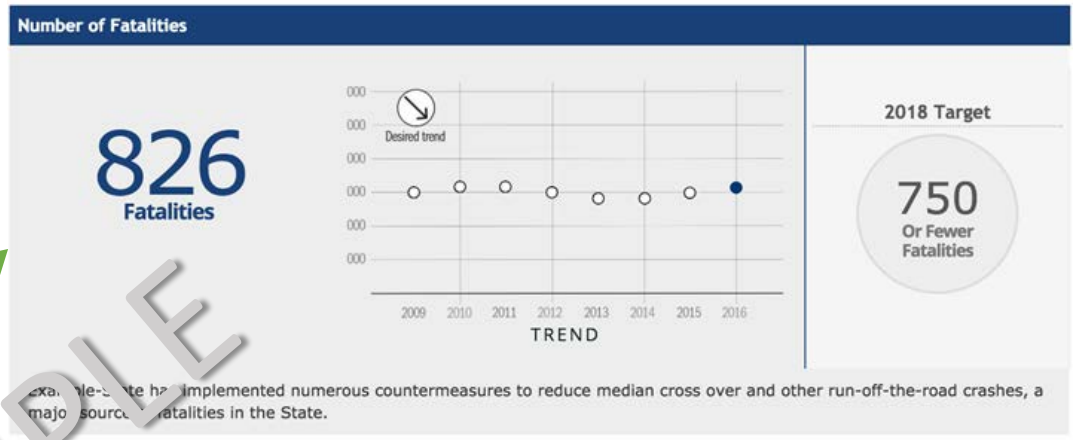


Data: Annual Fatal Crashed from FARS; Data are from latest available year.

EXAMPLE

State Performance Report

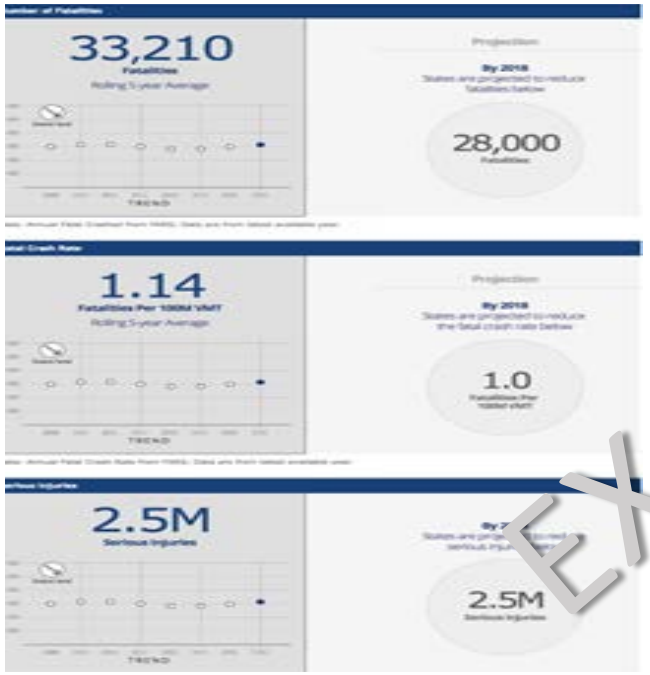




EXAMPLE

Phased Development

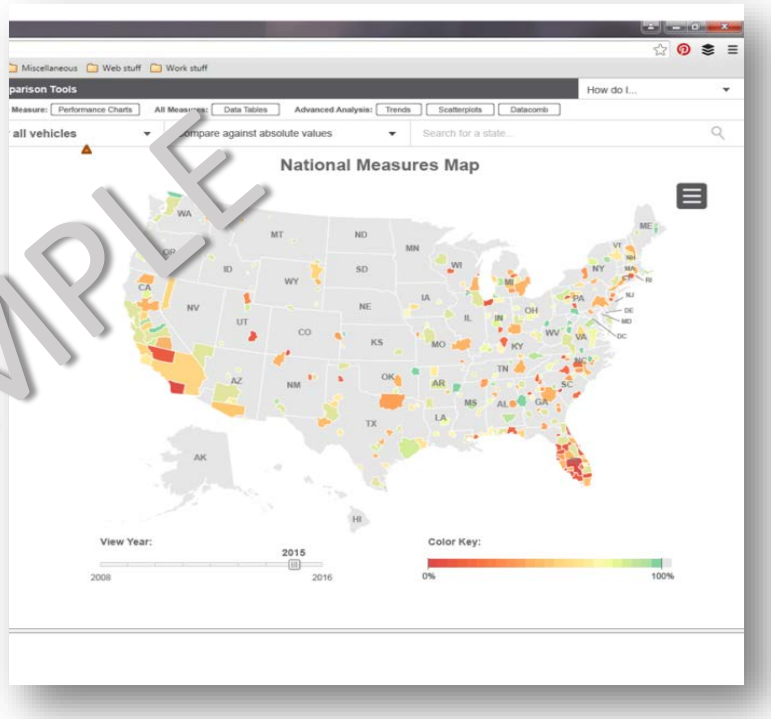
1.0



transportation.gov

- Static pages
- Highway & Transit
- Determinations
- US, State, Transit

2.0



Dynamic content!

EXAMPLE

Timeline

Design and Build Out

- ✓ External Showcase Webinar
- ✓ Phase 1 Site Build Out
- ✓ Phase 2 Data Visualization and Analysis Tools
- ✓ Research/Testing
- ✓ Phase 1 Launch

2018

Website Launch

- ✓ Phase 2 Launch
- ✓ Content Management and Maintenance

2019

Resources

U.S. Department of Transportation
Federal Highway Administration

TPM
HOW WE GET THERE

TPM Professional Capacity Building (PCB)

Create Resources to Support Implementation

- Regulations
- Guidance
- Support materials (factsheets, reports, tools, etc.)
- Survey and stakeholder input

Develop PCB Products

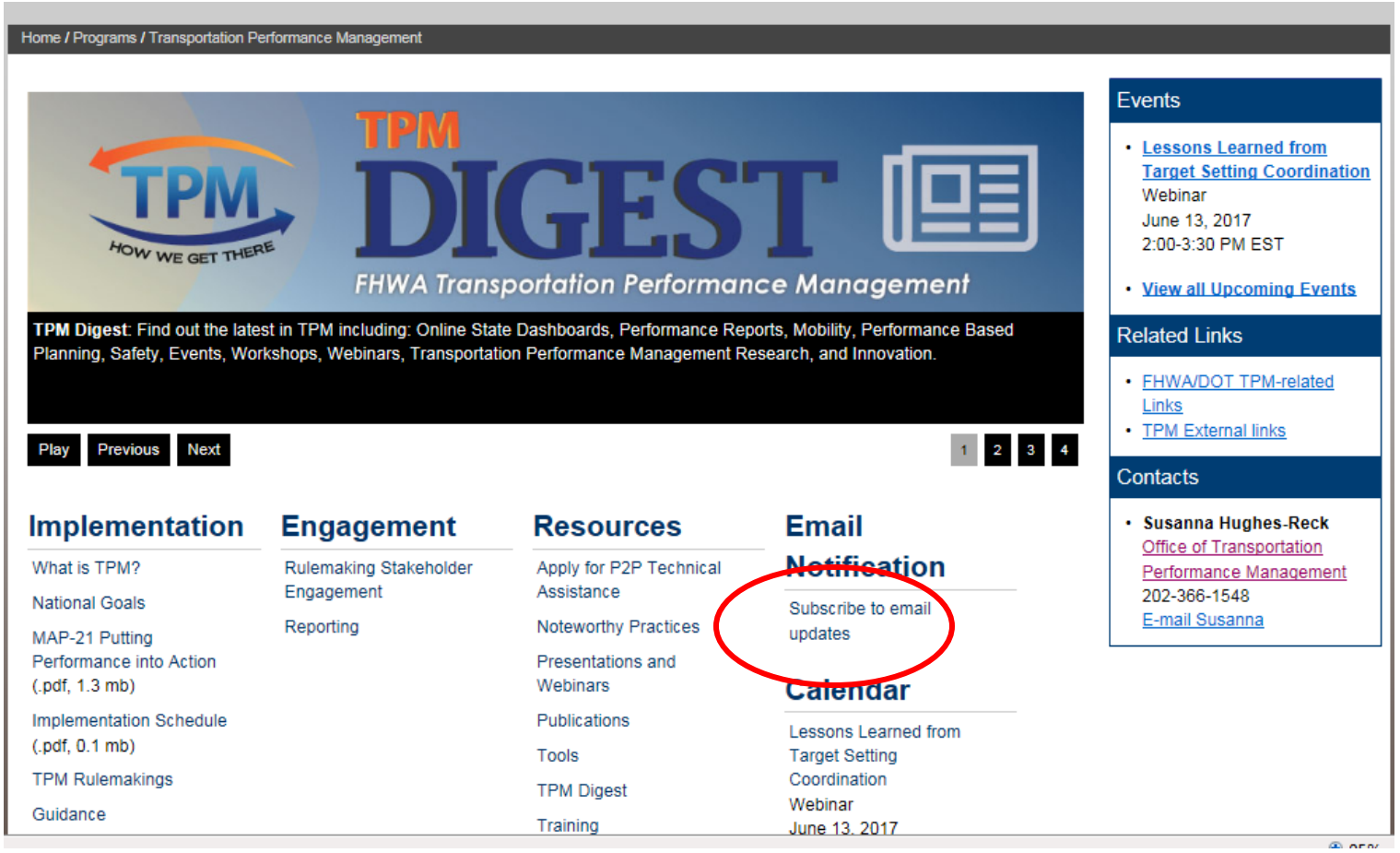
- Training course Materials
- Web-based training modules
- Webinar slides
- Video modules

Deliver Products to Staff and Stakeholders

- In-person training
- Webinars and virtual trainings
- Clearinghouses
- Conference presentations/ workshops
- Discipline seminars

TPM Website

http://www.fhwa.dot.gov/tpm/



Materials in Development

- Technical Advisories Guidance
  - S/TIP Performance-Based Discussion
  - LRTP System Performance Report
  - Linking Targets to Long-Term Expectations
- Guidebooks and Effective Practices
  - Transportation Investment Strategy Analysis (Summer 2017)
  - TPM Target Setting Coordination (Summer 2017)
  - Analyzing Freight Bottlenecks for TPM (Winter 2017)

Technical Assistance: National Webinars

- Let's Talk Performance Series
  - Recorded Sessions on Key TPM Topics
    - Asset Management (November 2016)
    - Safety Target Setting and Coordination (September 2016)
    - Basics of Target Setting (July 2016)

NHI In-Person Courses Available Now

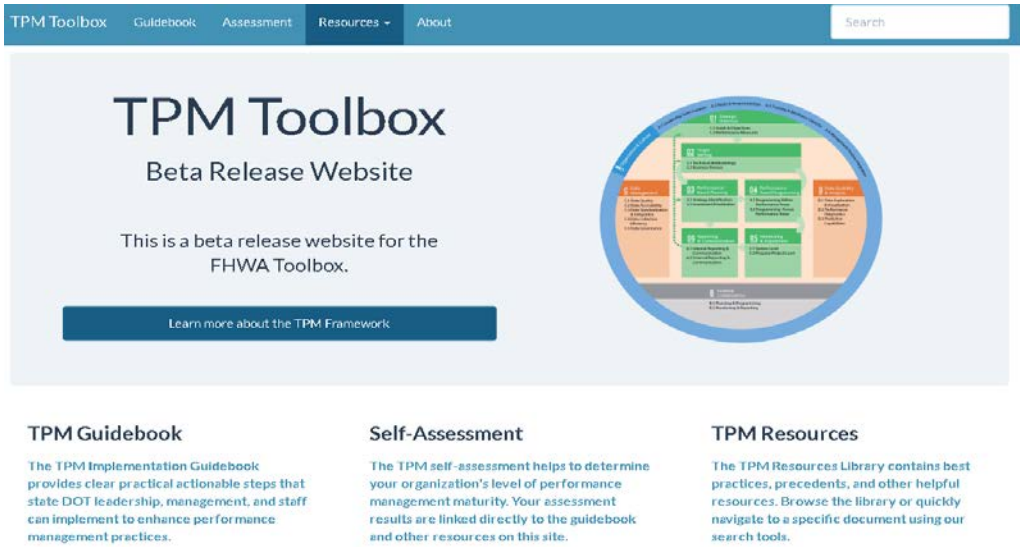
- Overview of MAP-21 TPM (with FAST Act Updates)
- TPM for Safety
- Performance-based Planning and Programming
- Steps to Effective Target Setting
- The Role of Data in TPM

Formal Peer-to-Peer Technical Assistance

- 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
- Apply through Division Office

TPM Toolbox

- Visit http://www.tpmtools.org
  - Assess your agency's level of TPM maturity
  - Use the practical tools to move your agency to the next level in a range of performance areas

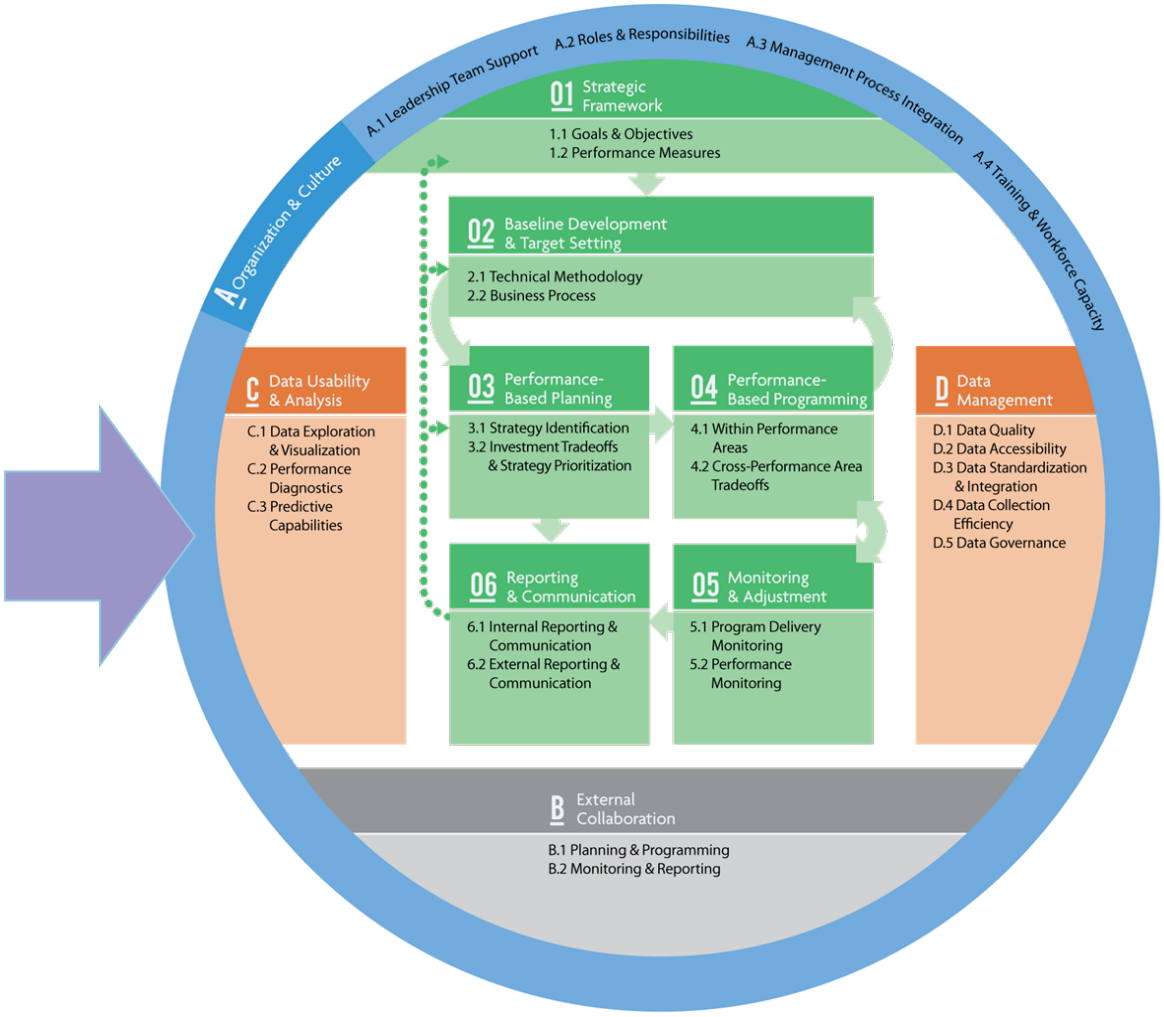


TPM Capability Maturity Model (CMM)

TPM
HOW WE GET THERE

CMM has 10 components w/ 26 Subcomponents

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



FHWA Website Resources

- Policy and Guidance Center
  - https://www.fhwa.dot.gov/pgc/
- TPM
  - https://www.fhwa.dot.gov/TPM/index.cfm
- Asset Management
  - https://www.fhwa.dot.gov/asset/

Contacts

For questions or more information, please contact:

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Questions?

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