

TRANSPORTATION PERFORMANCE MANAGEMENT (TPM)

UCI ANNUAL MEETING
CITY OF CHESAPEAKE
MAY 25-26, 2016



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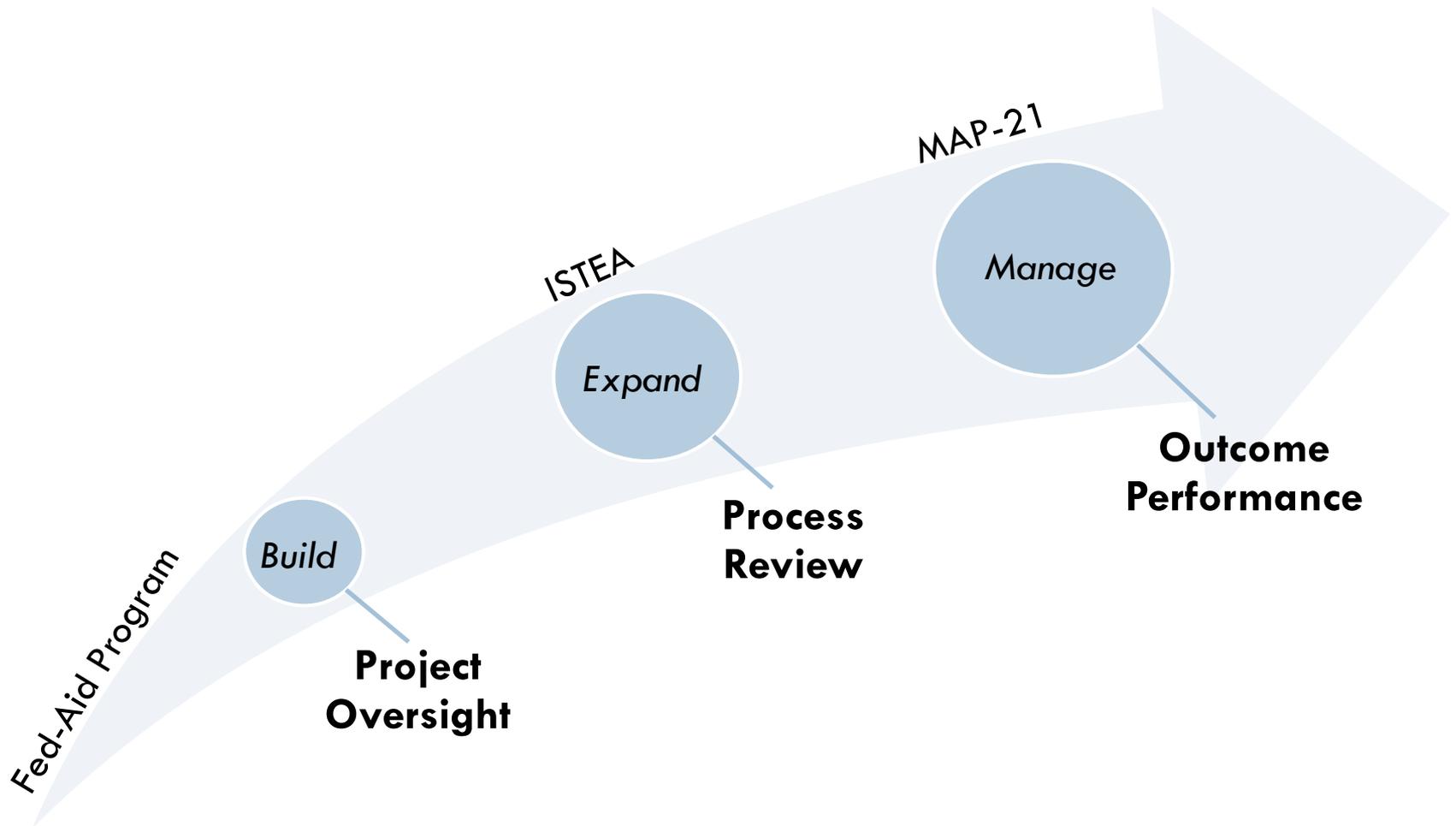
What is TPM?

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



In short, TPM helps to...

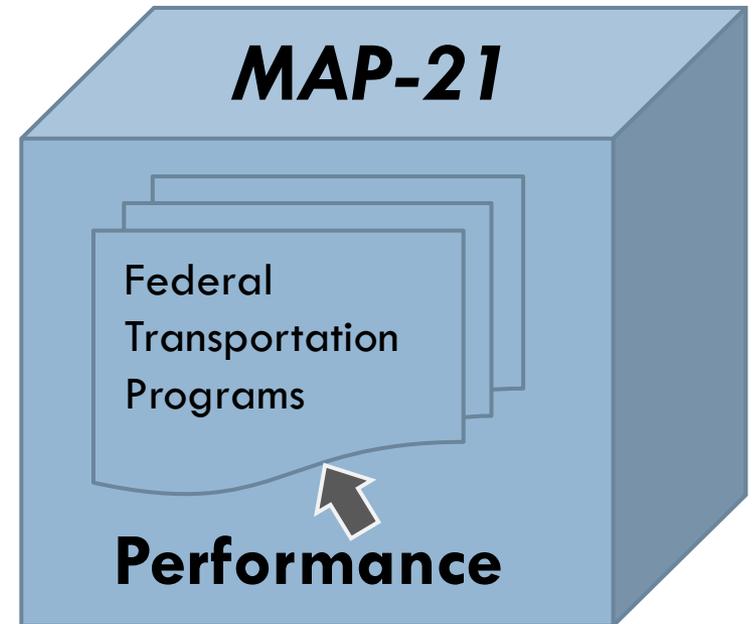


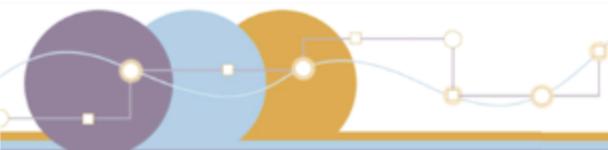
- Make Better Decisions
- Make Efficient allocation of resources
- Increase Accountability and Transparency
- Improve communication with decision-makers and the public

Transition to MAP-21 Legislation

Working together

- FHWA
- VDOT
- MPOs

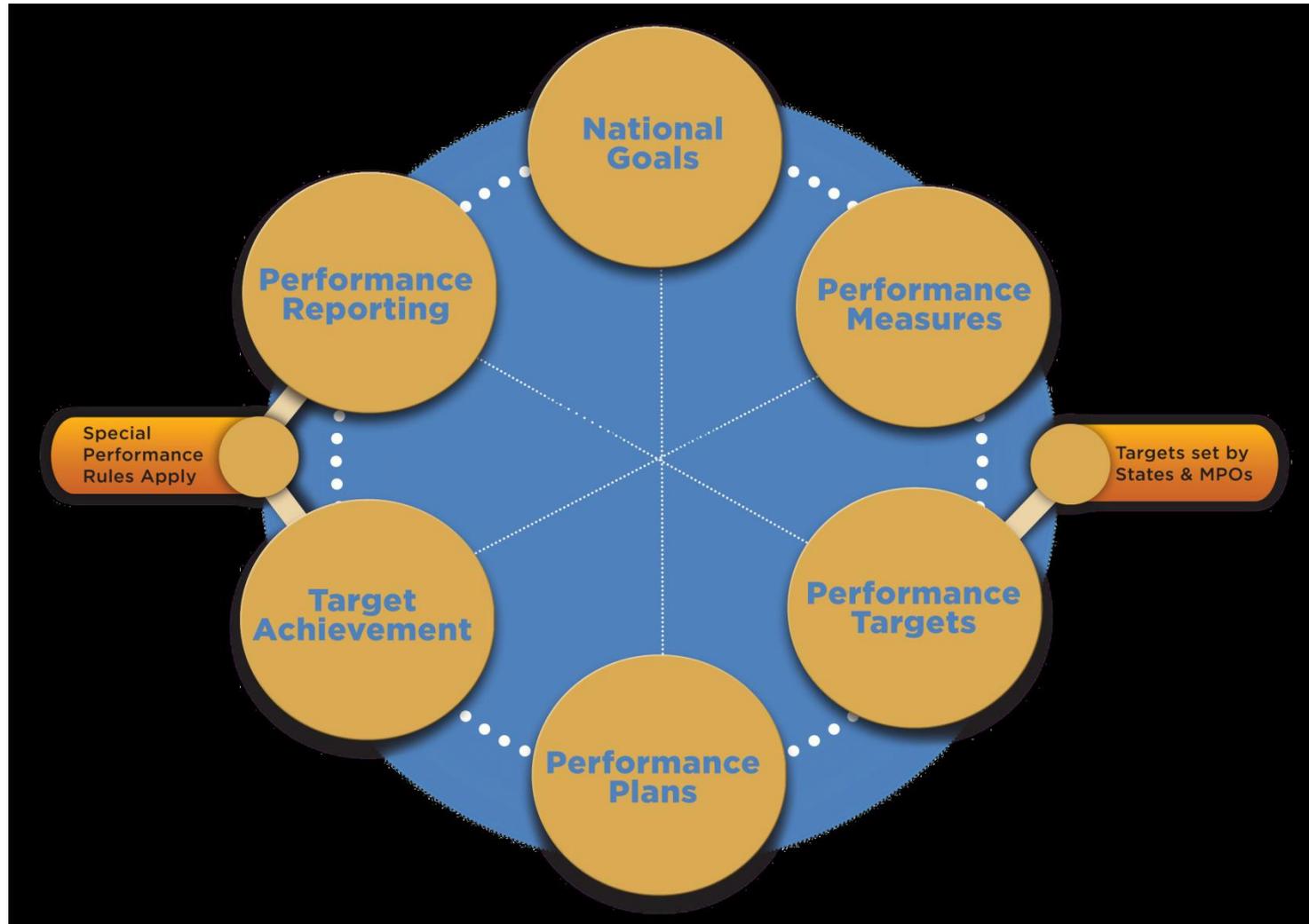




Transportation Performance Management

Performance Areas	NPRM	Comments Due	Anticipated Final Rule
Safety Performance Measures	March 11, 2014	<u>Closed</u> June 30, 2014	Published March 15 2016
Highway Safety Improvement Program	March 28, 2014	<u>Closed</u> June 30, 2014	Published March 15 2016
Statewide and Metro Planning; Non-Metro Planning	June 2, 2014	<u>Closed</u> October 2, 2014	Anticipated May 2016
Pavement and Bridge Performance Measures	January 5, 2015	<u>Closed</u> May 8, 2015	Anticipated October 2016
Highway Asset Management Plan	February 20, 2015	<u>Closed</u> May 29 2015	Anticipated October 2016
System Performance Measures	April 22, 2016	<u>Open</u> until August 20 2016 (120 days)	TBD

How will it be implemented?



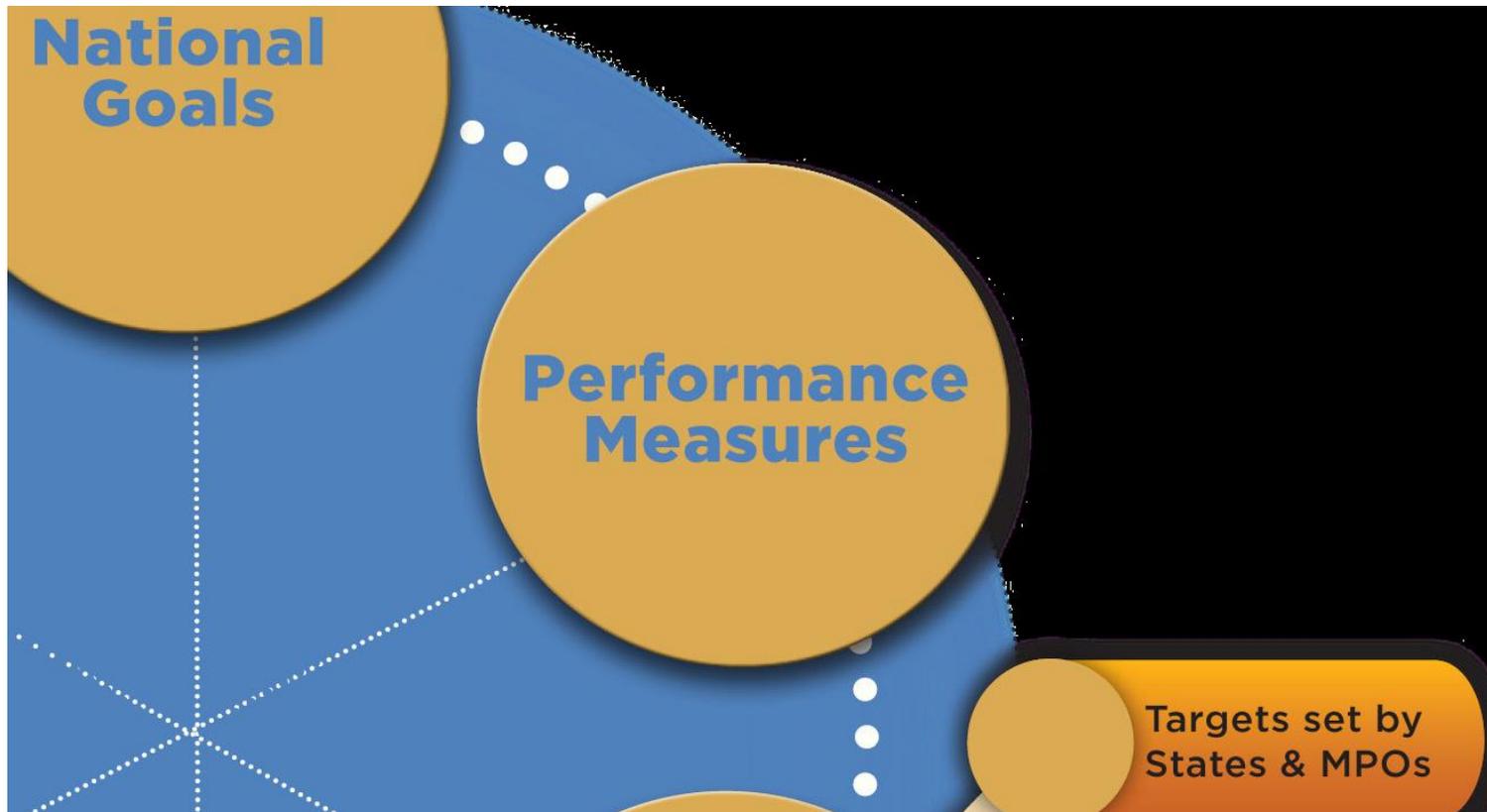
Step 1.

National goal areas have been identified in MAP-21

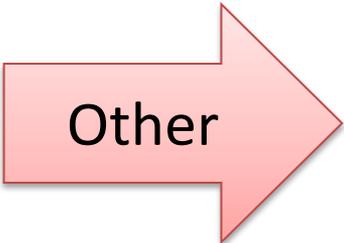


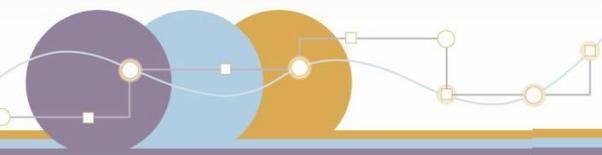
Step 2.

FHWA will establish measures with input through rule making



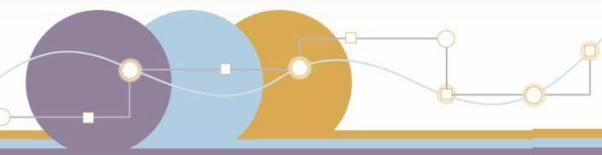
TPM Performance Measure Categories in MAP-21

	MEASURE CATEGORY
 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)

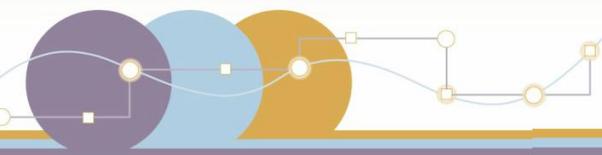
Overall Section Condition Rating	3 metric ratings (IRI, cracking and rutting/faulting)	Measures
Good	All three metrics rated "Good"	percentage of lane-miles in "Good" condition
Poor	≥ 2 metrics rated "Poor"	percentage of lane-miles in "Poor" condition



Pavement Condition Thresholds

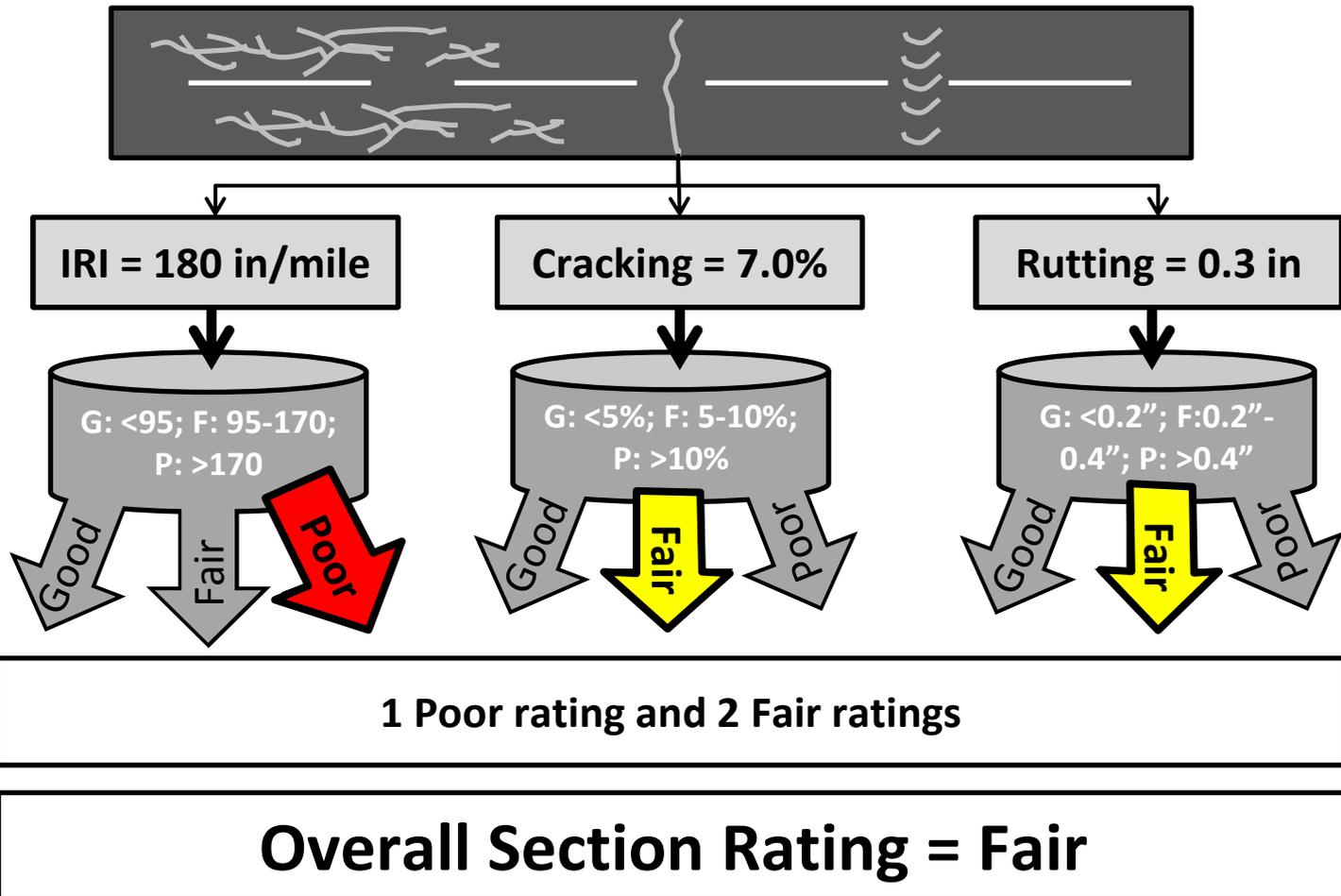
	Good	Fair	Poor
IRI <i>(inches/mile)</i>	<95	95-170 95-220*	>170 >220*
Cracking <i>(%)</i>	<5	5-10	>10
Rutting <i>(inches)</i>	<0.20	0.20-0.40	>0.40
Faulting <i>(inches)</i>	<0.05	0.05-0.15	>0.15

*Urbanized Population >1M



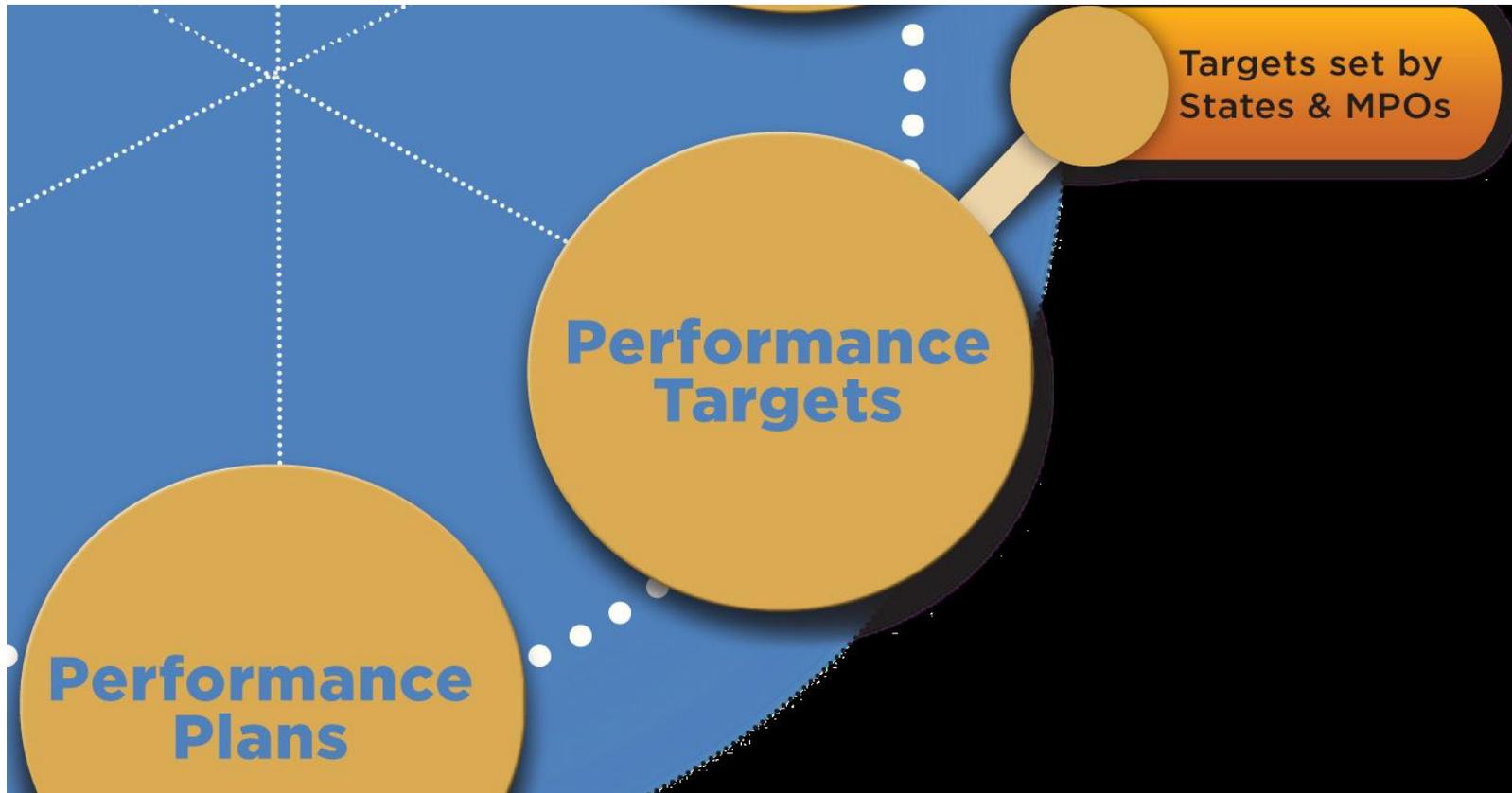
Pavement Metric Rating Example

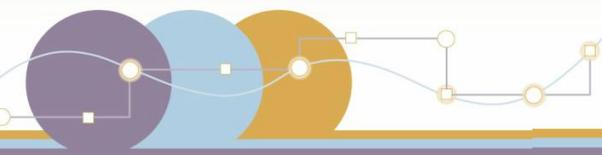
Example for an asphalt surfaced Interstate section located in a rural area



Step 3.

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

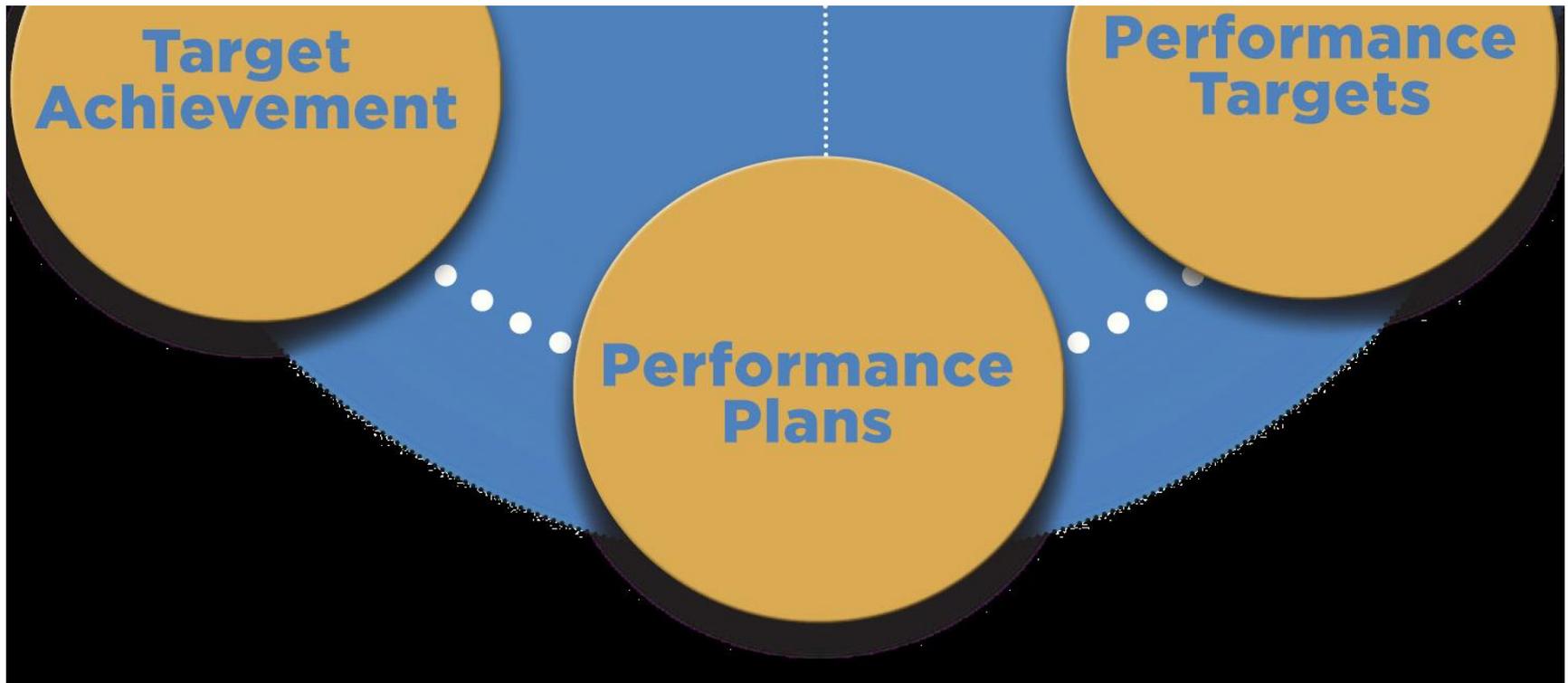
- 4 year performance period to align with biennial reports

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.

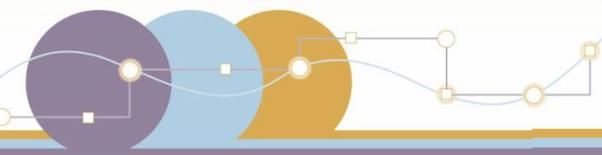
VDOT and MPOs report to FHWA on progress toward achieving targets



Step 6.

FHWA will assess progress towards achieving targets





Implementation Schedule

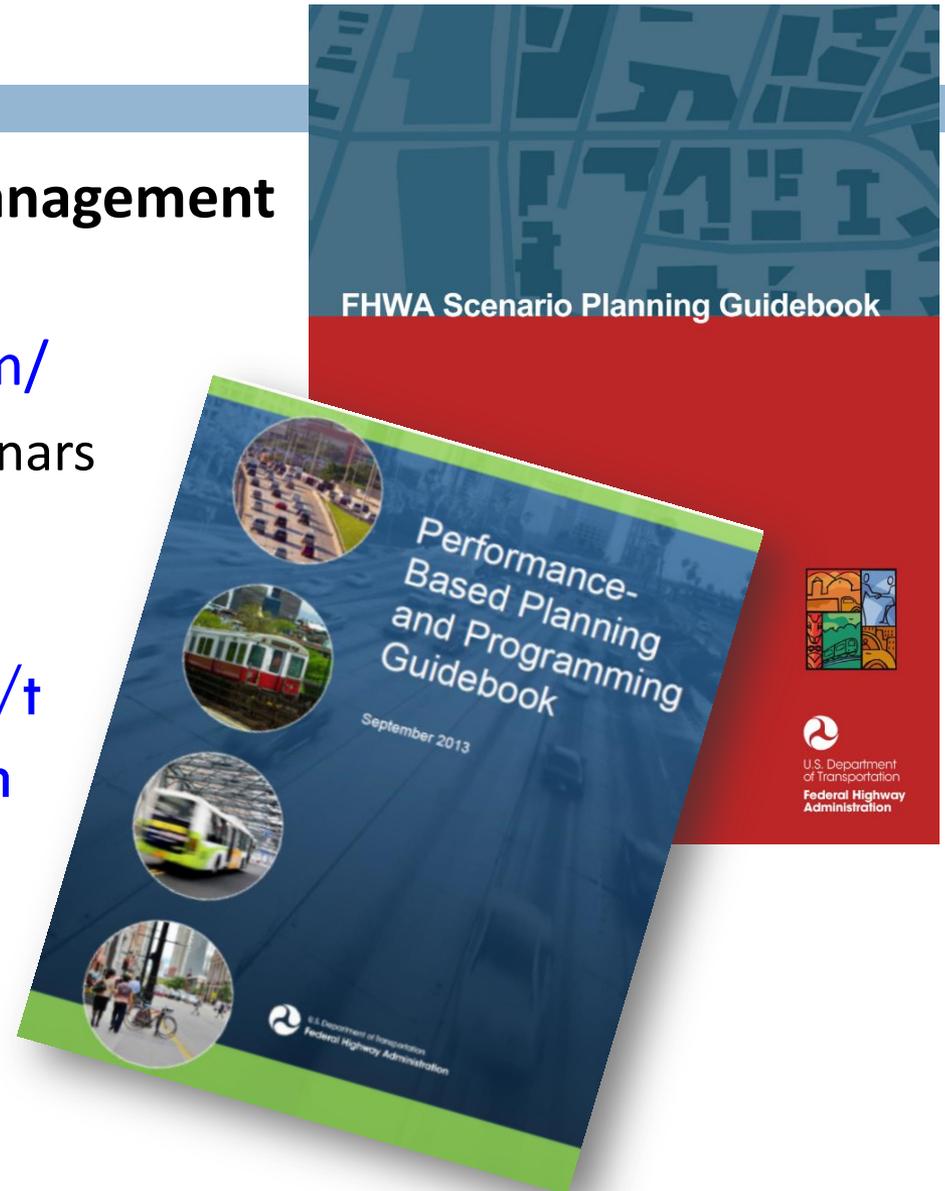
MAP-21	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
MAP-21	(2014)	(2015)	(2016)	(2017)	(2018)	(2019)



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>



Transportation Performance Management

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TPM and MAP-21

- [What is TPM?](#)
- [National Goals](#)
- [MAP-21 Performance Requirements Summary](#)
- [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](#)

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Questions/Comments?

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