

RANSPORTATION PERFORMANCE MANAGEMENT (TPM) STABLISHED TARGETS FOR MARYLAND

State Highway Administration (MDOT) established performance targets for Safety, Infrastructure and Congestion Mitigation and Air Quality (CMAQ), as specified under 23 U.S.C. Performance Management Measures.

Baltimore Metropolitan Council approach by developing interim targets to reduce the second process of the second political congestion Management Process

Committee Meeting

2020 Target

Transportation Performance Management (TPM) Program:

2nd Performance Period PM 2 & 3 Target Setting and Reporting

June 7, 2022

TPM 2: INFRASTRUCTURE CONDITION

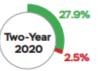
Infrastructure condition targets for the National Highway System (NHS) in Maryland were developed through the Transportation Asset Management Plan (TAMP) process for the entire system, regardless of ownership. The NHS in Maryland is owned and maintained by federal, state, and local agencies.

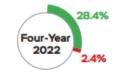








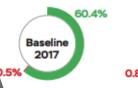




*Baselines were generated using conditions as reported in 2019 with best information available on federally-owned bridges.



NTERSTATE PAVEMENT CONDITION







Purpose

- 1. Review the target setting process and requirements for TPM2 and TPM3
- 2. Inform BRTB of progress to date on setting statewide targets
- 3. Outline plan to complete target setting for all measures
- 4. Present baseline data that is currently available that can inform future target setting decisions (optional)

Meeting Agenda



TPM & Target Setting Overview

TPM requirements and context



PM2: Measure & Target Details

Draft Infrastructure Condition targets as established in the 2022 TAMP update



PM3: Measure & Target Details

Details and differing requirements around System Performance targets



Baseline Performance Review

Review of the baseline performance data that is currently available

TPM Effort Overview

Requirements & Context

Transportation Performance Management (TPM)

23 CFR § 490.105

- (d) Target scope.
- (1) State DOTs and MPOs shall establish statewide and metropolitan planning area wide targets...as specified in 23 CFR sections -
 - (i) 490.303 for the condition of pavements on the Interstate System
 - (ii) 490.303 for the condition of pavements on the NHS (excluding the Interstate)
 - (iii) 490.403 for the condition of bridges on the NHS
 - (iv) 490.503(a)(1) for the Travel Time Reliability
 - (v) [Reserved]
 - (vi) 490.603 for the Freight Reliability measure specified in § 490.607; and
 - (vii) 490.803 for the Total Emissions Reduction



Federal Highway Administration



Federal TPM Measures

	Program Area	Performance Measures	MPO Target Option
TPM1	Safety	 Number of Fatalities Rate of Fatalities Number of Serious Injuries Rate of Serious Injuries Number of Non-Motorized Fatalities and Serious Injuries 	BRTB has 180 days to choose: 1. Set own or 2. Support state
TPM2	Infrastructure Condition (NHS Bridge and Pavement)	 Percent of Pavements of the Interstate System in Good Condition Percent of Pavements of the Interstate System in Poor Condition Percent of Pavements of the Non-Interstate NHS in Good Condition Percent of Pavements of the Non-Interstate NHS in Poor Condition Percent of NHS Bridges classified as in Good Condition Percent of NHS Bridges classified as in Poor Condition 	BRTB has 180 days to choose: 1. Set own or 2. Support state
TPM3	Highway & Freight Reliability	12. Interstate Travel Time Reliability13. Non-Interstate Travel Time Reliability14. Freight Reliability	BRTB has 180 days to choose: 1. Set own or 2. Support state
	Traffic Congestion	15. Annual Hours of Peak Hour Excessive Delay (PHED) Per Capita16. Percent of Non-Single Occupancy Vehicle Travel	BRTB coordinates with MDOT to set one target for applicable urbanized areas
	Emissions Reduction	17. Total Emissions Reduction	BRTB has 180 days to choose: 1. Set own or 2. Support state CMAQ Performance Plan required

TPM Deliverables for 2022

Due October 1st

1. Full Performance Period Report submit by MDOT SHA to FHWA:

For Performance Period 1 (PP1)

- Reflects on progress made toward the targets initially set in 2018
- Reports 4-year performance and key narrative elements
 - 1a. CMAQ Performance Plan submit by BMC to MDOT SHA for inclusion in the report to FHWA

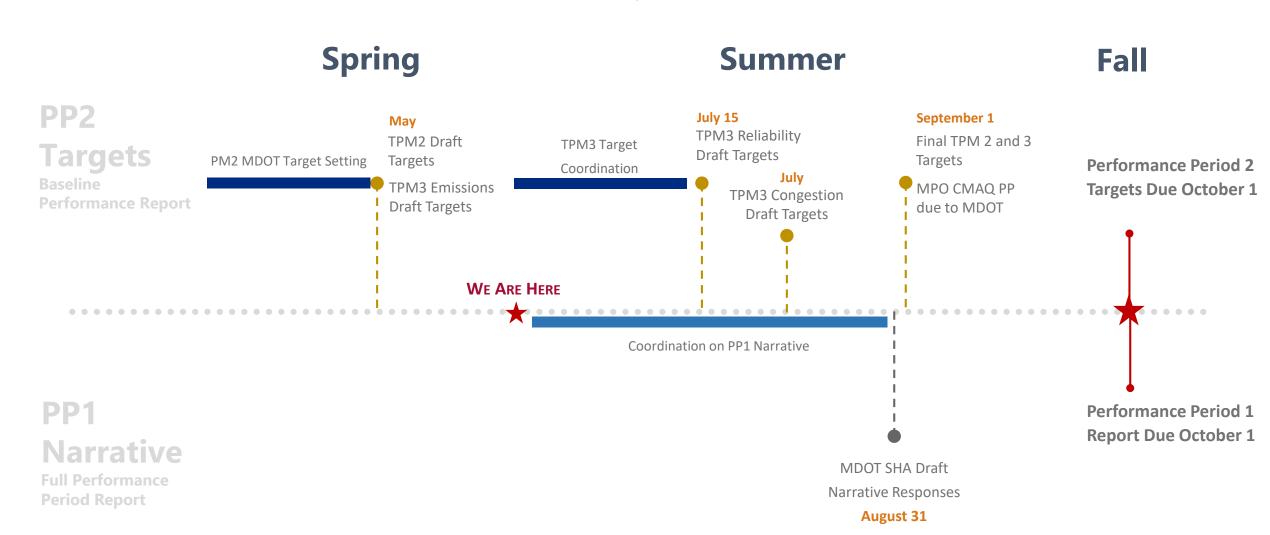
2. Baseline Performance Period Report submit by MDOT SHA to FHWA:

For Performance Period 2 (PP2)

- Establishes a new set of 2- and 4-year targets
- Reports new targets along with key narrative elements
 - 2a. CMAQ Performance Plan submit by BMC to MDOT SHA for inclusion in the report to FHWA

TPM Timeline

2022 TPM Reporting and Target Development



TPM 2

Federal TPM Measures

	Program Area	Performance Measures	MPO Target Option
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	Emissions Reduction	17. Total Emissions Reduction	BRTB has 180 days to choose: 1. Set own or 2. Support state

CMAQ Performance Plan required

TPM 2Coordination Plan

MDOT leads statewide target setting



MPO set own or support state targets

- MDOT will have updated pavement targets in July
- Draft final TPM2 targets provided to MPOs in August
 - MPO has 180 days from October 1st Satet reporting to determine targets; no FHWA reporting required
- MPO-specific baseline condition data available from MDOT's ArcGIS Data Portal
 - https://data-maryland.opendata.arcgis.com/datasets/pavement-condition-nhs/explore?location=89.331295%2C-106.726025%2C0.00





TPM 3

Federal TPM Measures

	Program Area	Performance Measures	MPO Target Option
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CMAQ Performance Plan required

Interstate Travel Time Reliability Non-Interstate Travel Time Reliability Freight Reliability

TPM 3

Highway & Freight Reliability

MDOT leads statewide targets



MPO set own or support state

- Baseline conditions available in NPRDMS
- Forecasts in development with drafts by July 15th
- MDOT can provide MPO-specific baseline performance by July 5th
- Final statewide targets selected by August 15th
 - MDOT reports via FHWA Performance Management Form (PMF) by October 1st
 - MPO has 180 days to determine targets; no FHWA reporting required

TPM 3Traffic Congestion

Single unified target set collaboratively by MDOT and applicable MPOs

- Baseline conditions available in NPRDMS
- MDOT will schedule a series of meetings with BRTB to select targets
 - Draft final targets by August
 - MDOT reports via FHWA Performance Management Form (PMF) by October 1st
 - MPO reports via CMAQ Performance Plan by October 1st
 - Draft to MDOT by September 1st appreciated

TPM 3 Emissions

State and MPO targets calculated based on programmed CMAQ projects

- Memo shared with MPOs in May
- Discussions can take place as needed
- Final statewide targets are complete
 - MDOT reports to FHWA via Performance Management Form (PMF) by October 1st
- Final MPO targets by September
 - MPO reports to MDOT via CMAQ Performance Plan by September 1st

Baseline Conditions

Highway Reliability

Baseline Performance

Percent of person-miles traveled that are reliable

Interstates

Target: At least 72.1% of the system should have a LOTTR less than 1.50



2018 **70.7%**2019 **69.0%**2020 **93.5%**

2017

2021

Target: > 72.1%

Year's Performance

Non-Interstate NHS

Target: At least 81.7% of the system should have a LOTTR less than 1.50



Target: > 81.7%

84.7%



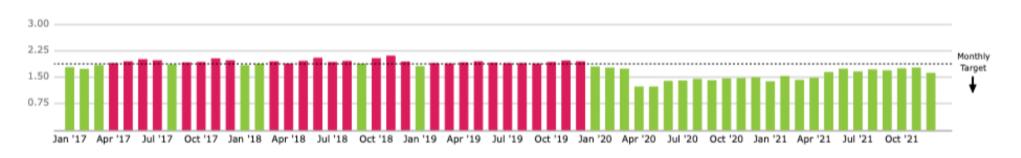
Freight Reliability

Baseline Performance

Truck travel-time reliability index

Interstates

Target: The system should have a TTTR less than 1.88



Target: < 1.88



Traffic Congestion – Peak Hour Excessive Delay

Baseline Performance

Baltimore UZA

Target: The system should have a PHED per capita less than 22.6h annually (1.883h for each month)



Target: > 72.1%



Target: N/A*

Aberdeen UZA

Target: The system should have a PHED per capita less than 22.6h annually (1.883h for each month)



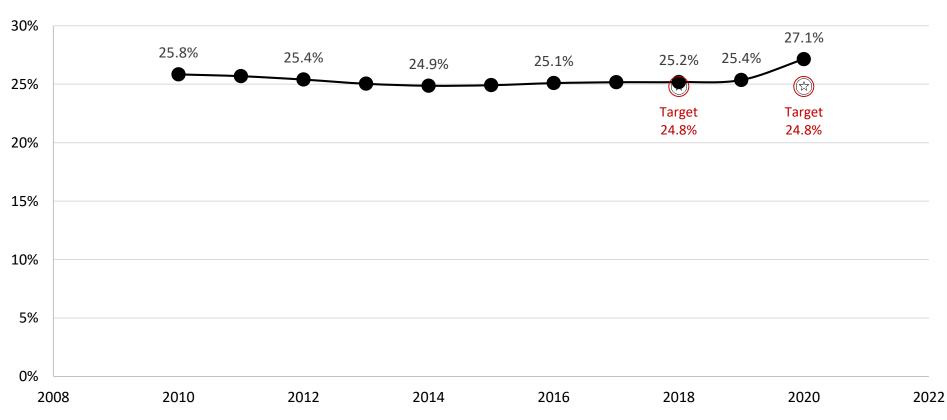
^{*} Targets were not required for Aberdeen in the first performance period

Traffic Congestion – Non-SOV Travel

Baseline Performance

Baltimore UZA

Percent of Non-SOV Travel



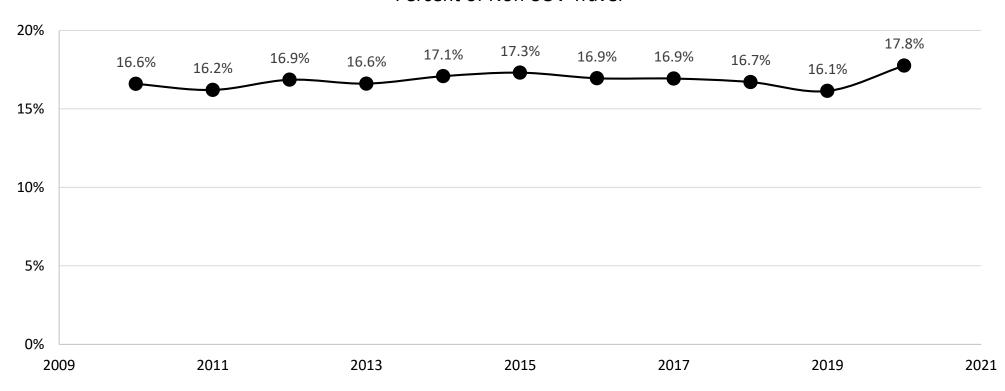
Data Source: US Census Bureau, ACS 5-Year Estimates, Table DP03, Commuting to Work

Traffic Congestion – Non-SOV Travel

Baseline Performance

Aberdeen UZA

Percent of Non-SOV Travel



Data Source: US Census Bureau, ACS 5-Year Estimates, Table DP03, Commuting to Work