

2020-2050 METROPOLITAN TRANSPORTATION PLAN DEVELOPMENT



Mid-Ohio Regional
Planning Commission

Transportation Performance Measures

- Measure success in achieving goals/objectives
- Quantify effectiveness
- Track trend over time
- Identify areas for focused improvement
- Basis for project selection evaluation criteria

MORPC's History of Transportation Performance Measures

2011	MORPC develops first measures and targets as part of 2012-2035 MTP
2012	Performance measurement requirements in Federal transportation legislation (MAP-21)
2016	MORPC revises measures and targets with adoption of 2016-2040 MTP
2016 - Present	FHWA publishes national performance measurement rules <ul style="list-style-type: none">• Methodology• Target-setting• Inter-agency coordination

MORPC 2016-2040 MTP Transportation Performance Measures



Benchmark	2020 Target	2040 Target
Average trip travel time for disadvantaged populations is 5% less than the regional average trip travel time <small>*2014 Travel Demand Model</small>	Average trip travel time for disadvantaged populations within 5% of regional average trip travel time	Average trip travel time for disadvantaged populations within 5% of regional average trip travel time
95% of bridges with GA rating of 5 or better, 5% of pavement miles in unacceptable conditions, 6% of transit fleet older than useful life 580 miles of bikeways <small>2013 ODOT, 2014 COTA, 2015 MORPC Inventories</small>	95% of bridges with GA rating of 5 or better, No more than 5% of pavement miles in unacceptable conditions, 0% of transit fleet older than useful life 630 miles of bikeways	98% of bridges with GA rating of 5 or better, No more than 5% of pavement miles in unacceptable conditions, 0% of transit fleet older than useful life 830 miles of bikeways
0.63 fatalities per 100 million VMT 5.83 serious injuries per 100 million VMT Average number of fatalities: 96 Average number of serious injuries: 896 <small>*average number of crashes occurring 2010-2014</small>	0.63 fatalities per 100 million VMT 5.83 serious injuries per 100 million VMT 10% reduction in fatalities and serious injuries 10% reduction in non-motorized fatalities and serious injuries	0.42 fatalities per 100 million VMT 3.91 serious injuries per 100 million VMT 39% reduction in fatalities and serious injuries 39% reduction in non-motorized fatalities and serious injuries

- MPO Planning Area
- Variety of Measures Aligned with MTP Goals
- Generally Arterials and above & All Modes
- 2020 and 2040 Targets
- Report Progress Annually

National Transportation Performance Measures

Safety

- Five Measures
 - # fatalities, # serious injuries, fatality rate, serious injury rate, # non-motorized fatalities and serious injuries
- Similar to and coordinated with the long standing Highway Safety Improvement Program (HSIP) requirements by FHWA of ODOT
- The 2016-2040 MTP included benchmarks and targets for the five metrics.
- 2017 – ODOT set target based on 1% annual crash reduction
 - January 2018 MORPC supported ODOT target as they are inline with the 2016-2040 MTP targets
 - MORPC to revisit during MTP development in Fall 2018

National Transportation Performance Measures

Pavement and bridge conditions

- Six measures
 - % of interstate pavement in good condition & % in poor condition
 - % of non- interstate NHS pavement in good condition & % in poor condition
 - % of NHS bridges in good condition & % in poor condition
- Similar to ODOT long standing practice of established goals for pavement rating and bridge conditions
- Similar to 2016-2040 MTP metrics
- ODOT to establish statewide targets in May
- MORPC to establish MPO targets in November



National Transportation Performance Measures

Travel Time Reliability; Freight Travel Time Reliability; CMAQ Traffic Congestion,
and CMAQ Emission Reductions

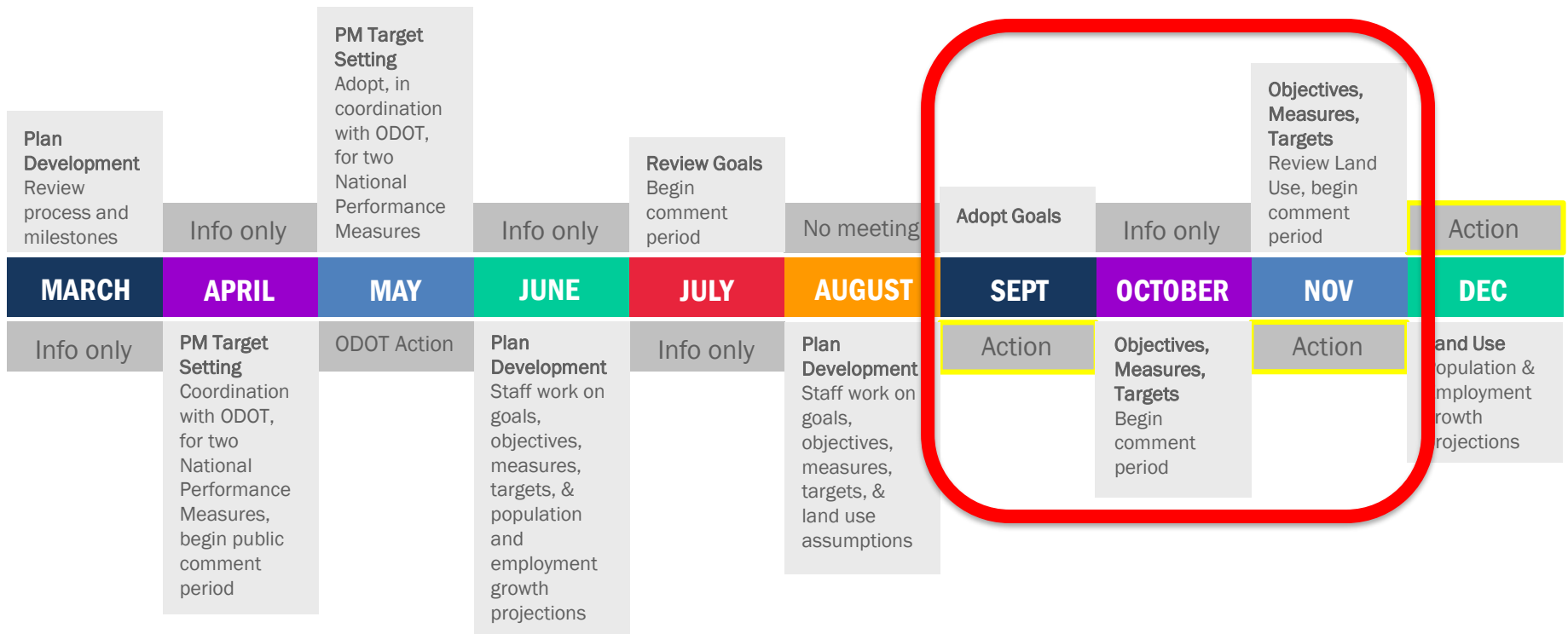
- Eight measures
 - Percent non-Single Occupancy Vehicle (Non-SOV)
 - Person Hours of Excessive Delay (PHED)
 - Interstate and Non- Interstate Travel Time Reliability
 - Freight Travel Time Reliability
 - Total CMAQ Emission Reduction:
 - Volatile Organic Compounds (VOCs - MORPC Applicable)
 - Nitrous Oxides (NOxs - MORPC Applicable)
 - Particulate Matter at 2.5 Micrometers (PM2.5 – NA to MORPC)
- ODOT currently has nothing similar
- 2016-2040 MTP has one akin to Non-SOV and one similar to Travel Time Reliability
- Currently coordinating with ODOT on methodology and target setting
- ODOT to establish statewide targets in May (urban area targets for Non-SOV and PHED)
- MORPC to establish targets in November

National Transportation Performance Measures

Related Items

- NHS Asset Management Plan
- Transit Asset Management Plan
- System Performance Report
- TIP/MTP Update Scheduling Requirements:
 - Safety: Required on or after May 27, 2018
 - TAM: Required on or after October 1, 2018
 - Infrastructure / System Performance: Required on or after May 20, 2019

Plan Development Timeline - 2018



NOTE: Targets will reflect:

- National required measures which generally apply to just the NHS system
- Measures for additional facilities such as collectors and arterials as appropriate
- Measures for all modes

Plan Development Timeline – 2019-2020

2019

Compile candidate strategies & projects	No meeting	Project Evaluation Criteria Adopt	Info only	Strategy Development & Project Evaluation	Info only	Strategy Development & Project Evaluation	No Meeting	Draft Strategies & Projects List Publish, open public comment period	Info Only
JANUARY	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT-DEC
Info only	Compile candidate strategies & projects	Action	Strategy Development & Project Evaluation	Info only	Strategy Development & Project Evaluation	Info Only	Strategy Development & Project Evaluation	Info Only	Community Presentations Seek public comments

2020

Community Presentations Seek public comments	No meeting	Draft MTP Public comment period	Info only	Plan Adoption May 2020
JANUARY	FEB	MARCH	APRIL	MAY
Info only	Draft full MTP Document Fiscal balance, impact analyses	Info Only	Draft MTP Public comment period	Action



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