

# 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"><li>• Methodology</li><li>• Target-setting</li><li>• Inter-agency coordination</li></ul>

# MORPC 2016-2040 MTP Transportation Performance Measures

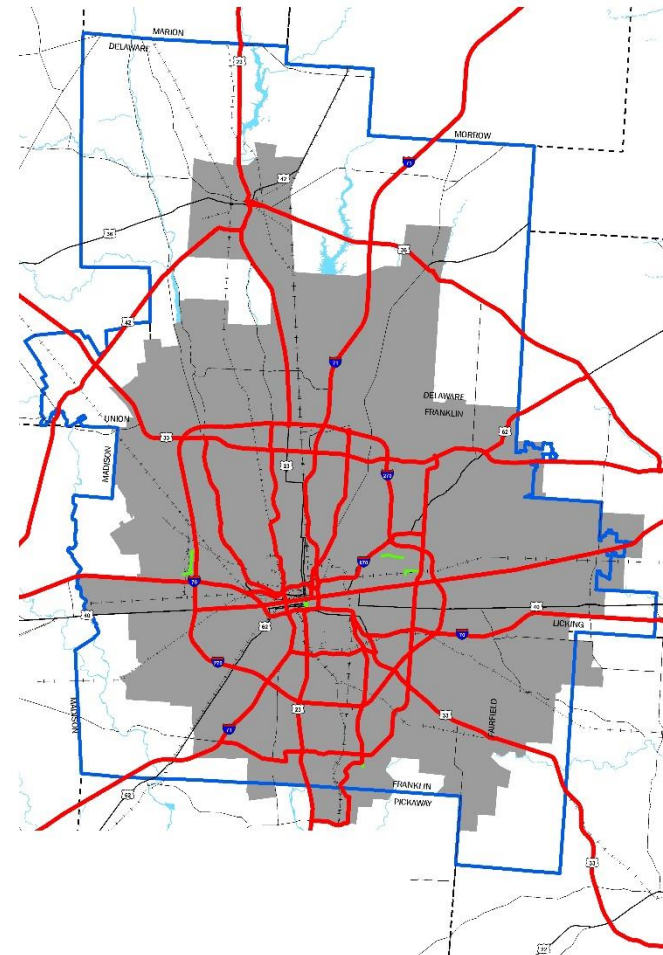


Benchmark	2020 Target	2040 Target
Average trip travel time for disadvantaged populations is <b>5%</b> less than the regional average trip travel time <small>*2014 Travel Demand Model</small>	Average trip travel time for disadvantaged populations within <b>5%</b> of regional average trip travel time	Average trip travel time for disadvantaged populations within <b>5%</b> of regional average trip travel time
95% of bridges with GA rating of 5 or better, <b>5%</b> of pavement miles in unacceptable conditions, <b>6%</b> of transit fleet older than useful life <small>580 miles of bikeways 2013 ODOT, 2014 COTA, TABUS, 2015 MORPC Inventories</small>	95% of bridges with GA rating of 5 or better, No more than <b>5%</b> of pavement miles in unacceptable conditions, <b>0%</b> of transit fleet older than useful life <b>630</b> miles of bikeways	98% of bridges with GA rating of 5 or better, No more than <b>5%</b> of pavement miles in unacceptable conditions, <b>0%</b> of transit fleet older than useful life <b>830</b> miles of bikeways
0.63 fatalities per 100 million VMT 3.91 serious injuries per 100 million VMT <small>Number of fatalities: 96 Number of serious injuries: 896 Number of non-motorized fatal and serious injuries: 138 *average number of crashes occurring 2010-2014</small>	<b>0.63</b> fatalities per 100 million VMT <b>5.83</b> serious injuries per 100 million VMT <b>10%</b> reduction in fatalities and serious injuries <b>10%</b> reduction in non-motorized fatalities and serious injuries	<b>0.42</b> fatalities per 100 million VMT <b>3.91</b> serious injuries per 100 million VMT <b>39%</b> reduction in fatalities and serious injuries <b>39%</b> 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

- Three Areas
  - Safety
  - Infrastructure:
    - Pavement and bridge conditions
  - System Performance:
    - Travel Time Reliability; Freight Reliability, CMAQ Traffic Congestion, and CMAQ Emission Reduction
- Applicability:
  - Urbanized Area and/or MPA
  - NHS and/or all public roadways
- Target Setting:
  - 2- and/or 4-year targets



# 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

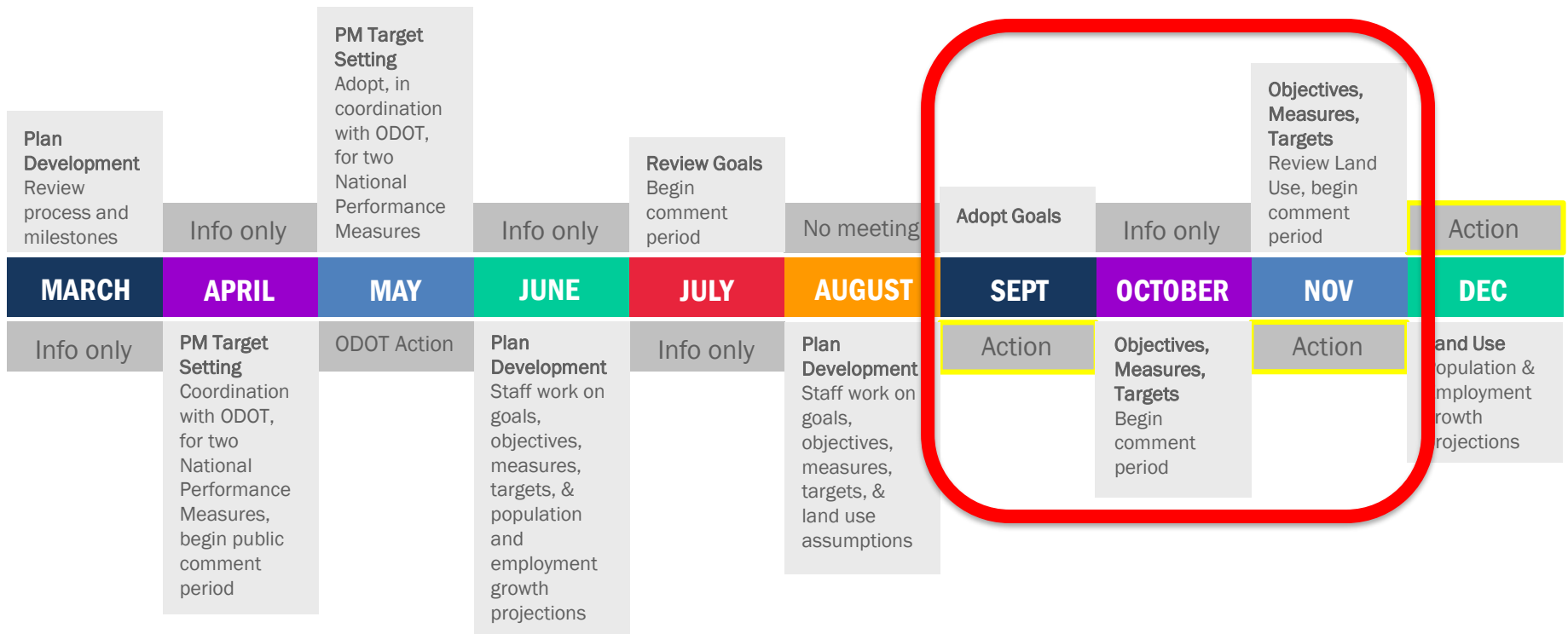


# National Transportation Performance Measures

## 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
<b>JANUARY</b>	<b>FEB</b>	<b>MARCH</b>	<b>APRIL</b>	<b>MAY</b>	<b>JUNE</b>	<b>JULY</b>	<b>AUGUST</b>	<b>SEPT</b>	<b>OCT-DEC</b>
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
<b>JANUARY</b>	<b>FEB</b>	<b>MARCH</b>	<b>APRIL</b>	<b>MAY</b>
Info only	Draft full MTP Document Fiscal balance, impact analyses	Info Only	Draft MTP Public comment period	Action



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