

DURHAM • CHAPEL HILL • CARRBORO

**DCHC**

METROPOLITAN PLANNING ORGANIZATION

PLANNING TOMORROW'S TRANSPORTATION

# 2055 MTP Performance Measures

**Monet Moore, DCHC MPO Staff**

Technical Committee Meeting | October 8, 2024

February 13, 2024

Technical Committee Meeting

Initial presentation on survey responses.

May 14, 2024

Technical Committee Meeting

Initial presentation of revised 2050 Goals and Objectives.

June 11, 2024

Technical Committee Meeting

Recommended to adopt revised 2050 Goals and Objectives with incorporated feedback from Technical Committee.

October 8, 2024

Technical Committee Meeting

Presentation of Performance Measures for the development of MTP 2055 to Technical Committee.

# Goals and Objectives Adopted for Use in the MTP 2055

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# Goals and Objectives adopted for Use in the 2055 MTP

GOALS	OBJECTIVES
Connect People and Places	Increase mobility options for all communities – particularly <u>underrepresented</u> communities of concern.
	Achieve zero disparity of access to jobs, education, and other important destinations by race, income or other marginalized groups.
Ensure that All People have Access to Multimodal and Affordable Transportation Choices	Enhance transit services, amenities and facilities.
	Improve bicycle and pedestrian facilities.
	Increase utilization of affordable non-auto travel modes.

# Goals and Objectives adopted for Use in the 2055 MTP

GOALS	OBJECTIVES
Manage Congestion and System Reliability	Allow people and goods to move with greater reliability.
	Increase efficiency of the existing transportation system through strategies such as Transportation Demand Management (TDM) and Intelligent Transportation Systems (ITS).
	<u>Increase travel choices and travel reliability while prioritizing multi-modal improvements.</u>
Promote Safety, Health and Well-being	Achieve zero deaths and serious injuries on our transportation system.
	Provide all residents with active transport choices.
	<u>Improve project design and traffic operations to minimize human error.</u>
	<u>Increase accessibility via universal design.</u>

# Goals and Objectives adopted for Use in the 2055 MTP

GOALS	OBJECTIVES
Stimulate Inclusive Economic Vitality	Improve freight movement.
	Coordinate land use and transportation.
	Improve project delivery for all modes.
	Invest in cost-effective solutions to improve travel reliability and safety.
	Ensure equitable distribution of transportation investments especially to <u>communities of concern for underrepresented communities</u> .
Ensure Equity and Participation	Ensure that transportation investments do not create disproportionate negative impacts for <u>communities of concern underrepresented communities</u> .
	Ensure equitable public participation among <u>communities of concern underrepresented communities</u> .

# Goals and Objectives adopted for Use in the 2055 MTP

GOALS	OBJECTIVES
Improve Infrastructure Condition and Resilience	Increase the proportion of highways and highway assets rated in 'Good' condition.
	Maintain transit vehicles, facilities and amenities in the best operating condition.
	Improve the condition of bicycle and pedestrian facilities and amenities.
	Promote resilience planning and practices.
	Support autonomous, connected and electric vehicles.
	<u>Create an accessible EV infrastructure network and prioritize alternative fuel sources.</u>
Protect the Human and Natural Environment and Minimize Climate Change	Reduce negative impacts on the natural and cultural environments.
	Reduce transportation sector emissions.
	Achieve net zero carbon emissions.

# Performance Measures for Use in the MTP 2055

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# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES	PERFORMANCE MEASURES
Connect People and Places	Increase mobility options for all communities – particularly <u>underrepresented</u> communities of concern.	<ul style="list-style-type: none"> <li>• # of jobs within 30 min by transit/auto/walk for communities of concern/underrepresented communities<sup>1</sup></li> <li>• % of jobs/population in Travel Choice Neighborhoods<sup>2</sup></li> <li>• % of communities of concern/underrepresented communities in Travel Choice Neighborhoods<sup>2</sup></li> <li>• % of communities of concern/underrepresented communities with "good" or "excellent" transit and/or walk access</li> <li>• % of communities of concern/underrepresented communities with greater-than-average work-trip travel times</li> </ul>
	Achieve zero disparity of access to jobs, education, and other important destinations by race, income or other marginalized groups.	

<sup>1</sup> **Communities of concern (CAMPO) and underrepresented communities (DCHC MPO)** are communities with high concentrations of one or more of the following: minority residents (non-White race and/or Hispanic/Latino residents), low-income households, seniors, residents with limited English proficiency, or households with no vehicles. Data source: U.S. Census Bureau, 2022 American Community Survey 5-Year Estimates.

<sup>2</sup> **Travel Choice Neighborhoods** are neighborhoods located within ¼ mile of existing or planned high-frequency (headways of 15 minutes or less during peak period) bus routes or within ½ mile of planned premium transit stations (bus rapid transit or passenger rail).

# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES	PERFORMANCE MEASURES
Ensure that All People have Access to Multimodal and Affordable Transportation Choices	Enhance transit services, amenities and facilities.	<ul style="list-style-type: none"> <li>● % of bus stops that meet ADA requirements</li> <li>● Transit service miles (total and high-frequency routes)</li> <li>● Bus average on-time performance</li> <li>● MPO total programming per capita on bicycle and pedestrian facilities</li> <li>● Proportion of jurisdictions that have an ordinance requiring developers to build or pay in lieu for sidewalks</li> <li>● Bike/Ped level of traffic stress</li> <li>● Transit ridership/Total transit boardings per capita</li> <li>● Transit and non-motorized mode share in Travel Choice Neighborhoods (moved from previous goal)</li> </ul>
	Improve bicycle and pedestrian facilities.	
	Increase utilization of affordable non-auto travel modes.	

# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES	PERFORMANCE MEASURES
Manage Congestion and System Reliability	Allow people and goods to move with greater reliability.	<ul style="list-style-type: none"> <li>• Interstate LOTTR (level of travel time reliability)</li> <li>• Non-interstate NHS LOTTR</li> <li>• Total and per capita minutes of delay for auto and non-auto (transit &amp; non-motorized) trips</li> <li>• <i>Average congested travel time for auto/transit (AM)</i></li> <li>• Number of alternative transportation users supported by the TDM program/VMT reduced</li> <li>• ITS Investments (\$) per capita or ITS treatment miles by freeway and arterial</li> </ul>
	Increase efficiency of the existing transportation system through strategies such as Transportation Demand Management (TDM) and Intelligent Transportation Systems (ITS).	
	<u>Increase travel choices and travel reliability while prioritizing multi-modal improvements.</u>	

# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES	PERFORMANCE MEASURES
Promote Safety, Health and Well-being	Achieve zero deaths and serious injuries on our transportation system.	<p><b><u>FHWA PMs (Highway)</u></b></p> <ul style="list-style-type: none"> <li>• Number of non-motorized fatalities and serious injuries (total <b>and in communities of concern/underrepresented communities</b>; rate per 100k population)</li> <li>• Number of motorized fatalities</li> <li>• Rate of motorized fatalities (per 100m VMT)</li> <li>• Number of motorized serious injuries</li> <li>• Rate of motorized serious injuries (per 100m VMT)</li> </ul> <p><b><u>FHWA PMs (Transit)</u></b></p> <ul style="list-style-type: none"> <li>• Fixed-route (FR) and demand response (DR) total fatalities and fatalities per 100k vehicle revenue miles (VRM)</li> <li>• FR and DR total injuries and injuries per 100k VRM</li> <li>• FR and DR total safety events and safety events per 100k VRM</li> <li>• FR and DR system reliability (distance between major mechanical failures)</li> </ul> <p><b><u>Other PMs</u></b></p> <ul style="list-style-type: none"> <li>• <b>Bike/ped facility density</b></li> </ul>
	Provide all residents with active transport choices.	
	<u>Improve project design and traffic operations to minimize human error.</u>	
	<u>Increase accessibility via universal design.</u>	

# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES		
Stimulate Inclusive Economic Vitality	Improve freight movement.	<ul style="list-style-type: none"> <li>• Interstate truck TTR (travel time reliability)</li> <li>• Vehicle miles of travel (VMT) per capita and total</li> <li>• Average travel distance for work trips</li> </ul> % of TIP projects completed on time	
	Coordinate land use and transportation.		
	Improve project delivery for all modes.		
	Invest in cost-effective solutions to improve travel reliability and safety.		
	Ensure equitable distribution of transportation investments especially to <del>communities of concern</del> <u>for underrepresented communities</u> .		

# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES	
Ensure Equity and Participation	Ensure that transportation investments do not create disproportionate negative impacts for <u>communities of concern</u> <u>underrepresented communities</u> .	<ul style="list-style-type: none"> <li>• Impact of planned highway improvements on communities of concern/underrepresented communities</li> <li>• % of communities of concern with greater-than-average minutes of delay per capita</li> <li>• % of public engagement/involvement plan requirements met</li> <li>• Link to Environmental Justice reports from both MPOs</li> </ul>
	Ensure equitable public participation among <u>communities of concern</u> <u>underrepresented communities</u> .	

# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES	PERFORMANCE MEASURES
Improve Infrastructure Condition and Resilience	Increase the proportion of highways and highway assets rated in 'Good' condition.	<ul style="list-style-type: none"> <li>• Percent of interstate pavement in good and poor condition</li> <li>• Percent of National Highway System (NHS) pavement in good and poor condition</li> <li>• Percent of NHS bridges in good and poor condition</li> <li>• Percentage of non-revenue transit vehicles that have met or exceeded their useful life benchmark (ULB)</li> <li>• Percentage of revenue transit vehicles within a particular asset class that have met or exceeded their ULB</li> <li>• Percentage of transit facilities with a condition rating below 3 on the Federal Transit Agency's Transit Economic Requirements Model (TERM)</li> </ul>
	Maintain transit vehicles, facilities and amenities in the best operating condition.	
	Improve the condition of bicycle and pedestrian facilities and amenities.	
	Promote resilience planning and practices.	
	Support autonomous, connected and electric vehicles.	
	<u>Create an accessible EV infrastructure network and prioritize alternative fuel sources.</u>	

# Performance Measures for Use in the MTP 2055

GOALS	OBJECTIVES	PERFORMANCE MEASURES
Protect the Human and Natural Environment and Minimize Climate Change	Reduce negative impacts on the natural and cultural environments.	<ul style="list-style-type: none"> <li>• % of planned investment in existing roadways</li> <li>• Total and per capita transportation GHG emissions</li> <li>• Total and per capita energy consumption from transportation sources</li> </ul>
	Reduce transportation sector emissions.	
	Achieve net zero carbon emissions.	



# Discussion

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Recommend the MPO Board approve the presented Performance Measures for use in the development of MTP Destination 2055.

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