

CMP Committee

March 4, 2025







- 1. WELCOME AND INTRODUCTIONS (5 min.)
- 2. APPROVAL OF MINUTES FROM NOVEMBER 6, 2024 MEETING (5 min.)

3. HOWARD COUNTY TRANSPORTATION OPEN HOUSE (15 min.)

Mr. David Cookson and Ms. Allison Calkins, Howard County Office of Transportation, will provide an overview of the Howard County Transportation Open House.

4. SELECTING CMP STRATEGIES IN NEW TIP SOFTWARE (10 min.)

Ms. Ndemazea Fonkem will show how CMP strategy selection has been added to the TIP project submission software.

5. NEW RESOURCES TO IDENTIFY CONGESTION (10 min.)

BMC staff will highlight resources that could be used to identify congestion.

6. 2025 PRIORITY LETTERS (10 min.)

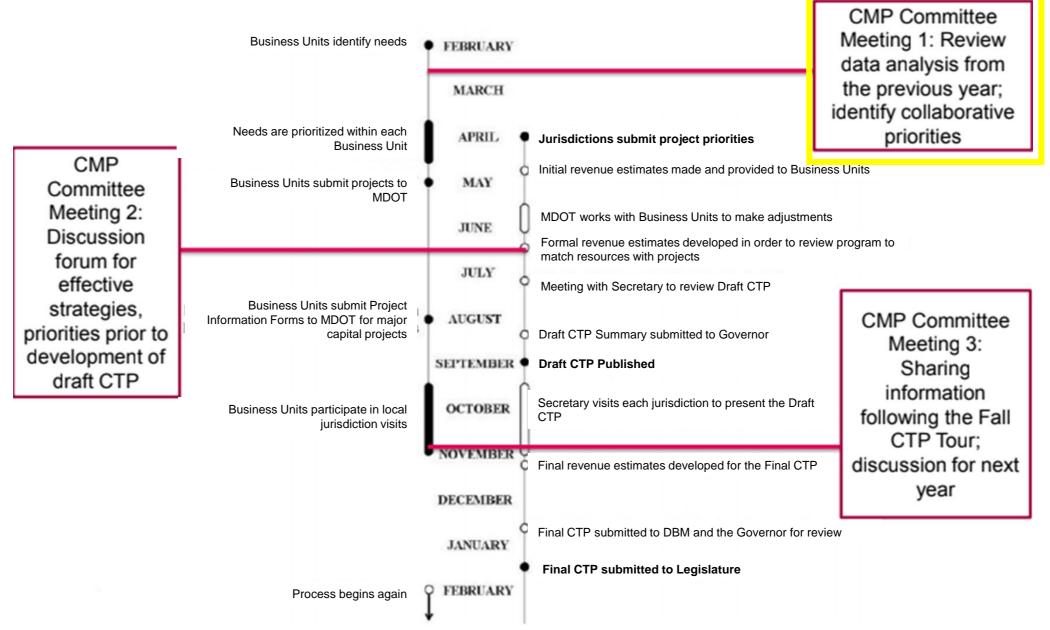
The group will discuss the development of priority letters for 2025.

7. OTHER BUSINESS (15 min.)

Future presentations of interest.

2025 Meetings – June 3, November 4

Reminder: CMP Committee Schedule



4. Selecting CMP Strategies in **New TIP Software**

CMP Strategies from CMP Strategy Guide

https://www.baltometro.org/sites/default/fi les/bmc documents/general/transportation /cmp/cmp strategy-guide.pdf

- Note: The Guide lists strategies by objective

Objective 2		
Improve travel	Public Transportation	тѕмо
times and reduce traveler delay	Real-Time Transit Data Transit Trip Planner Bus Rapid Transit Transit Priority Treatments Ferry Boats	Incident Management Traffic Signal Coordination Adaptive Traffic Signals Adaptive Ramp Metering Active Traffic Management Reversible Commuter Lanes
		Access Management Moveable Median Barriers
Pricing	Road Capacity	Electronic Toll Collection Hard Shoulder Running
Value/Congestion Pricing	Spot Improvements	Restrict Intersection Movements
Demand-Responsive Parking Pricing	Intersection Improvements	Geometric Improvements
VMT Fees	Safety Improvements	One-Way/Two-Way Street Conversion
	Operational Improvements	Transit Signal Priority Traveler Information
	New HOV or HOT Lanes Removing Bottlenecks	Systems Work Zone Management
	Adding Turn Lanes Grade Separated Intersections	Road/Weather Information Systems Traffic Management for
	Closing Network Gaps Add Travel Lanes	Special Events Off-Hours Delivery Programs Freight Management

CMP Strategies & TIP Projects

Project Information			
funds are for Phase II, which includes the intersection of Belair Road and Erde Avenue node.	ng at key nodes on Belair Road, including Frankford Avenue, Erdman Avenue, and F man Avenue. Phase I, which includes the intersection of Belair Road and Frankford ad, including Frankford Avenue, Erdman Avenue, and Fleetwood Avenue. This project is a major implementation item he completion of Phase II includes the intersection of Belair Road and Erdman Avenue node.	Avenue, was completed in February 2021. The year of operation of 2029 reflects t	the completion of Phase II includes the intersection of Belair Road and Erdman
Project Type *	Lead Agency *	County	Municipality
Road resurfacing/rehabilitation (HP)	Baltimore City		
Location	Functional Classification	Conformity	Year Open to Service
Baltimore City	Other Principal Arterial	Exempt	2029
			Was: 2028
Regionally Significant	NHS	Estimated Total Cost	Vulnerable Population
No	Yes	\$12,100,000	Eldery Population (age 75 and up), Hispanic or Latino Population, Households with No Car, Low-Income Population (below 200% of poverty level), Non-Hispanic Minority Population, Population with Disability, Population with Limited English Proficiency (LEP) Was: Empty
Project Benefits			
	ollisions. Improvements will improve multi-modal access and safety on the corrido	or near major retail nodes.	
Connection to Long-Range Transportation Planning Goals			
	I more safely, have safer interactions with other modes, and safe access to trans on, 5.A Implement Environmentally Responsible Transportation Solutions – Coor		
Congestion Management Process Goals			
4a. Infrastructure addition (e.g., new bike lanes, streetscape elements, etc.), 4b. Infrastructure improvements (e.g., traffic calming, etc.)		
Was: 'Empty'			
Project Changes			

- Project sponsors are now prompted to align their projects alongside the LRTP goals
- Tracked internally, not currently showcased publicly
 - Looking for committee ideas/approval for how to use the data



Preliminary Count of 2026-2029 Projects

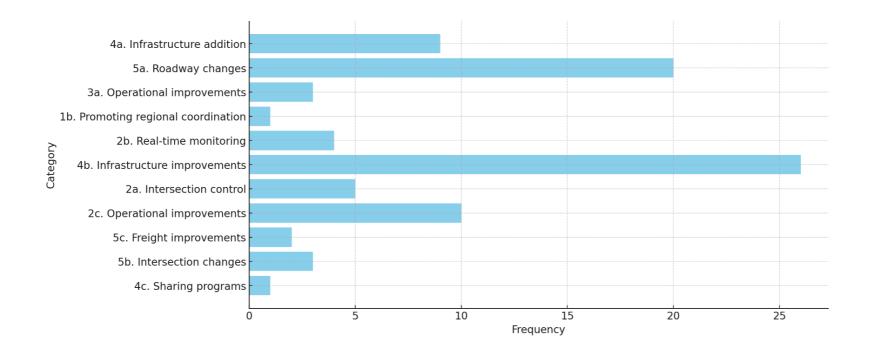
- As of March 4, there are 191 projects submitted to the TIP.
 - Not all projects have selected a CMP strategy
 - Projects are allowed to identify with up to 3 strategies

Strategy Code	Count
1b. Promoting regional coordination (e.g., intra-jurisdictional projects/strategies)	2
2a. Intersection control (e.g., traffic signal coordination, ramp metering, transit signal priority, etc.)	9
2b. Real-time monitoring (e.g., active traffic management, real time parking information, traveler information systems, road weather information systems)	7
2c. Operational improvements (e.g., movable barriers, reversible commuter lanes, geometric improvement, shoulder lane use, etc.)	12
3a. Operational improvements (e.g., transit signal priority, optimizing transit service, etc.)	4
3b. New infrastructure (e.g., bus rapid transit, network expansion, etc.)	1
4a. Infrastructure addition (e.g., new bike lanes, streetscape elements, etc.)	17
4b. Infrastructure improvements (e.g., traffic calming, etc.)	42
4c. Sharing programs (e.g., bikeshare programs, micromobility, etc.)	2
5a. Roadway changes (e.g., new lanes, spot improvements, etc.)	45
5b. Intersection changes (e.g., grade separated intersections, intersection improvements, etc.)	5
5c. Freight improvements (e.g., address freight bottlenecks, rail/port access, truck parking, etc.)	3



Caveats & Next Steps

- Caveats to the data presented
 - Initial project submissions were due March 3 and projects are still in review by BMC staff
 - 5a. Roadway changes: this can include projects like resurfacing that do not add new lanes
- Next steps
 - Conformity modeling and air quality analysis Spring 2025
 - Draft 2026-2029 TIP slated for release and public input in late May 2025
- What can data inform? What would committee like to see moving forward?







5. Additional Congestion Resources

- Maryland 2025 Annual Attainment Report on Transportation System Performance
 - <u>https://www.mdot.maryland.gov/OPCP/</u> <u>ARReport.pdf</u>
- Some measures correspond with regional CMP performance measures <u>https://www.baltometro.org/sites/de</u> <u>fault/files/bmc_documents/general/t</u> <u>ransportation/cmp/cmp_performanc</u> <u>e-measures.pdf</u>

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No.	Recommended Performance Metric	No.	Recommended Performance Metric			
Objeo	tive 1: Enhance access to jobs an	2.	Transit on-time performance - Bus - Rail			
1.	Number of jobs accessible within a 30-minute drive	Obje	tive 4: Improve freight reliabili			
2.	Number of jobs accessible within a 45-minute transit trip	1.	Truck Travel Time Reliability (TTTR) Index			
Objec	ctive 2: Improve travel times and		ctive 5: Enhance travel choices, nodes			
1.	Travel time index (ratio of	1.	Non-SOV mode share			
	peak-period to off-peak travel time)	2a.	Transit network extent and frequency			
2.	Duration of congested conditions (e.g., on typical	2b.	Access to frequent transit (secondary)			
3.	weekdays, weekends) Person hours of peak hour	3.	Bicycle network extent			
4.	excessive delay Average bus speeds	4.	Bicycle Level of Traffic Stress (LTS)			
	· · · · · · · · · · · · · · · · · · ·	5.	Park and ride utilization			
		Obje	ctive 6: Reduce traffic incidents			
5.	Anticipated growth in V/C ratio in peak period (base year to 2045)	1.	Number of crashes			
Objec	tive 3: Improve travel time reliab	2.	Number of pedestrian/bicycle crashes			
1.	Level of Travel Time Reliability (LOTTR)		1 0 0 0 1 1 2 3 1 2 3			

2025 Annual Attainment Report Measures



Enhance Safety and Security: Protect the Safety and Security of All Residents, Workers and Visitors

Annual Number of Fatalities on All Maryland Public Roads & Annual Number of Serious Injuries on All Maryland Public Roads _____

Annual Number of Bicycle and Pedestrian Fatalities and Serious Injuries on All Maryland Public Roads ____

Annual Number of Transit Passenger Fatalities _____

Annual Number of At-Grade Railroad Crossing Incidents Resulting in Injury or Fatality

Annual Number of Fatalities and Serious Injuries on Maryland Public Roads in Transportation Disadvantaged Communities

Preventable Incidents Per 100,000 Vehicle Miles on Transit_____

Miles of New SHA Sidewalks Added in Maryland _____

Percent of Sidewalks That Meet Americans With Disabilities Act (ADA) Compliance

Miles of Lower Level of Traffic Stress (LTS) Score _____

Incident (Coordinated Highways Action Response Team, or CHART) Response and Clearance Times _____

Average Time To Restore Normal Operations After a Weather Event (Roadway Clearance Times for BMC Weather Events) _____

2025 Annual Attainment Report Measures



Deliver System Quality: Deliver a Reliable, High-Quality, Integrated Transportation System

Percentage of Lane-Miles/Fixed Guideway Transit-Miles Susceptible To Flooding and Storm Surge
Unfunded State of Good Repair Backlog
Percentage of the Maryland State Highway Network in Overall Preferred Maintenance Condition
Overall Acceptable Pavement Condition
Number of All Maryland Bridges That Are in Poor Condition
Percent of All MDOT Transit Service Provided on Time
Annual Person Hours of Delay and Travel Time Reliability on Maryland Public Roads
Truck Hours of Delay and Truck Reliability on Maryland Public Roads
Annual Cost of Congestion (Billions) on the Maryland Public Roadway Network
User Cost Savings for the Traveling Public Due to Incident Management
Percent of CTP Program That Is Funded With Federal Dollars
Percent of Projects Delivered on Time Across MDOT
Percent of Projects Delivered on Budget Across MDOT
Percent of MDTA Tolling Transactions Collected Via <i>E-ZPass®</i> vs. Video Tolls vs. Pay-By-Plate
MVA Alternative Service Delivery (ASD) Transactions as a Percent of Total Transactions
MVA Average Cost Per Transaction

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ANNUAL PERSON HOURS OF DELAY AND TRAVEL TIME RELIABILITY ON MARYLAND PUBLIC ROADS



Performance Measure Example



TRUCK HOURS OF DELAY AND TRUCK RELIABILITY ON MARYLAND PUBLIC ROADS



TARGET: 2030: 5.3 MILLION HOURS: 2050: 5.3 MILLION HOURS

What Is the Trend?

Gradual increases in person hours of delay seem to correlate with the post-pandemic increase of Vehicle Miles Traveled (VMT) starting in CY 2021. However, it is estimated that delay will continue to increase at a slower rate due to more travel outside of peak hours and VMT increasing more slowly.

What Are Future Strategies?

- MDOT is working on the Transportation Systems Management and Operations (TSMO) project on I-695 (Baltimore Beltway) from I-70 to MD 43 (White Marsh Boulevard) in Baltimore County to reduce congestion and delay and increase reliability of travel within the project area.
- MDOT is deploying Intelligent Transportation System (ITS) technology where deemed appropriate, such as the US 50 corridor from the Bay Bridge to the Eastern Shore to increase travel reliability.
- The 2022 State Freight Plan identified projects for initial National Highway Freight Program funding to improve freight movement in the State.

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2025 Annual Attainment Report Measures



Serve Communities and Support the Economy: Expand Transportation Options To Allow Maryland's Diverse Communities To Access Opportunities and To Support the Movement of Goods

Overall Satisfaction With MDOT
Access to Transit (Within ½ Mile of a Transit Station/Stop) by People Who Live in Overburdened and Underserved Areas As Defined by the Climate Solutions Now Act (CSNA)
Relative Percentage of CTP Investment That Is in Overburdened and Underserved Communities
Commute Mode Share (CY 2023)
Multimodal MTA Transit Access to Essential Services/Destinations
Annual Transit Ridership (Thousands)
MTA Average Weekday Transit Ridership
Population Within ½ Mile of a Transit Station/Stop
Number of Jobs Within ½ Mile of a Transit Station/Stop
Fixed-Route Ridership by Seniors and People With Disabilities
Annual Revenue Vehicle Miles of MTA Service Provided
Port of Baltimore Foreign Cargo Tonnage and MPA General Cargo Tonnage
Percentage of MPA Operating Budget Recovered by Revenues
BWI Marshall Airport Total Annual Passengers
Comparative Airline Cost Per Enplaned Passenger (CPE)
Freight Originating and Terminating in Maryland by Mode— Total Tonnage and Total Value
Number of Nonstop Airline Markets Served

Percentage of MVA Customers With a Wait Time Under 10 Minutes

2025 Annual Attainment Report Measures



Promote Environmental Stewardship: Minimize and Mitigate the Environmental Effects of Transportation

Diversion Rate and Cost of Disposing Construction, Demolition and Maintenance Materials in Landfills and Incinerators

Recycled/Reused Materials From Maintenance Activities and Construction/Demolition Projects

Annual Dredged Material Capacity Remaining For Harbor and Bay Material (Million Cubic Yards)

Increase the Beneficial Use and Innovative Reuse of Dredged Materials

Vehicle Miles Traveled (VMT)/VMT Per Capita _____

Number of Employee Partners in Statewide TDM Programs _____

GHG Emissions From Light-Duty Vehicles (LDV) VMT and Medium/Heavy-Duty Vehicles (MHDV) VMT

Statewide Vehicle Emissions Inspection Program (VEIP) Testing Compliance Rate

Percentage of MDOT Fleet Comprised of EVs _____

Percent of Total Registered Vehicles That Are EVs_____

Level 2 and Direct Current Fast Charging (DCFC) Ports Per 1,000 Residents _____

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ATRI National Truck Bottlenecks

Congestion Ranking	 Rank Change 븆 2023-2024	Congestion Description	Å	State	Å V	Average Speed	Peak Average 🌲 Speed	Non-Peak Average 🌲 Speed	Peak Average Speed Percent Change 2023-2024
94	40	Baltimore, MD: I-95 at I-395		MD		45.8	37.3	49.3	-17.4%
64	33	Baltimore, MD: I-695 at I-70		MD		45.4	40.3	47.4	-7.5%
87	14	Baltimore, MD: I-695 at I-83		MD		47.7	40.5	50.5	-4.4%
90	13	Baltimore, MD: I-95 at I-695 (South)		MD		48.1	39.6	51.6	-10.0%

https://truckingresearch.org/2025/02/top-100-truck-bottlenecks-2025/

Notes:

- Locations are not directional.



- 🛧 Ranked 97 last year

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Top 2024 Regional Bottlenecks

					2024									
Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	2024 Rank	ATRI National Rank	2024 Locations
		10	1	1	1	2	2	2	2	1	1	1		I-95 N @ FORT MCHENRY TUNNEL
8	8	8	3	2	5	1	1	1	1	2	3	2		I-695 IL @ SECURITY BLVD/EXIT 17
9	1	1	7	3	2	3	3			17		3		I-95 N @ MD-152/EXIT 74
2	2	2	4		7	8	6	7	4	8	7	4	87	I-695 IL @ I-83/MD-25/EXIT 23
	18	4	2	4	4	5	7	5	3			5		I-895 N @ HARBOR TUNNEL THWY (NORTH)
3	7		9	6	6	6	5	3	7	7	9	6		MD-295 S @ MD-198
5	3	3	6	5	8	7			5	3	4	7		I-95 N @ MD-100/EXIT 43
13	10		15	7	3	4	4		6	6	8	8		US-50 E @ BAY BRIDGE
4	6	5	10	8	9	13	14	10	9	4	5	9		I-95 S @ MD-216/EXIT 35
			5		12	11	8	6	10	12	17	10		I-95 S @ FORT MCHENRY TUNNEL
1		9	11	14			10	18		14		11		I-95 N @ MD-32/EXIT 38
						16	6	4	8	9		12		I-695 IL @ PENINSULA EXPY/EXIT 43
15				16	11	12	19	19	14	13	14	13		I-95 S @ MD-175/EXIT 41
		12		13				9			6	14		I-95 S @ MD-43/WHITEMARSH BLVD/EXIT 67
20			17	18	19			11	13	15	16	15		I-695 OL @ I-795/EXIT 19
		18	14	19	15	17	16	16	18	16	20	16		I-695 OL @ MD-26/EXIT 18
								12				17	87	I-695 OL @ I-83/MD-25/EXIT 23
			18					17	16			18		I-695 IL @ MD-542/LOCH RAVEN BLVD/EXIT 29
16	17				18		13		19			19	87	I-83 S @ I-695
19									20			20	64	I-70 E @ I-695/EXIT 91

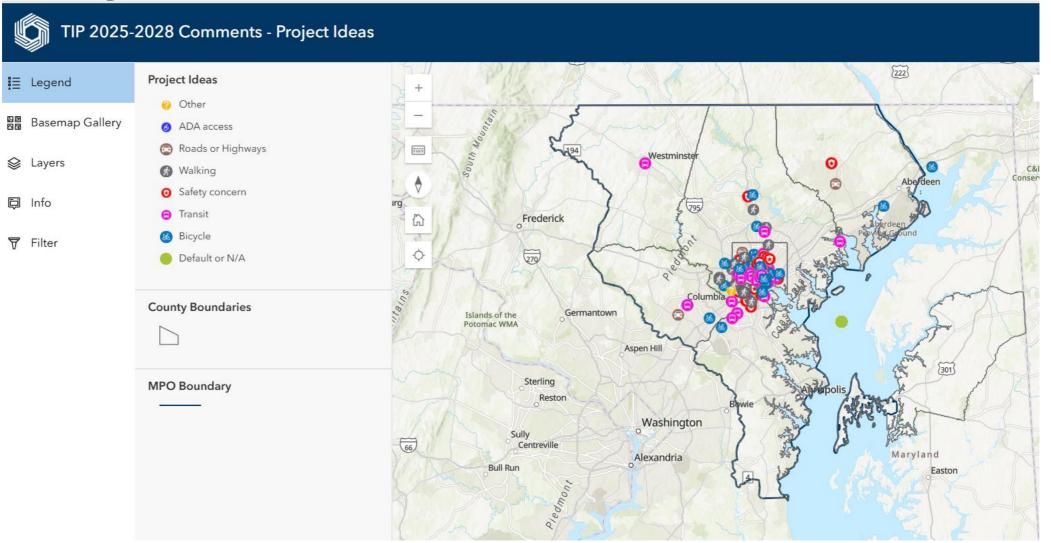
Conclusions/Observations: The December 2024 Monthly Average Vehicle Miles Traveled AVMT is down compared to December 2023 by -0.5%. The Cumulative Year to Date AVMT change through December 2024 AMVT is down compared to last year 2023 by -0.61%. I-95 N at the Fort McHenry Tunnel was the region's top bottleneck for the 4th Quarter and finished number 1 for calendar year 2024 as well.

Inner Loop (IL) Outer Loop (OL)



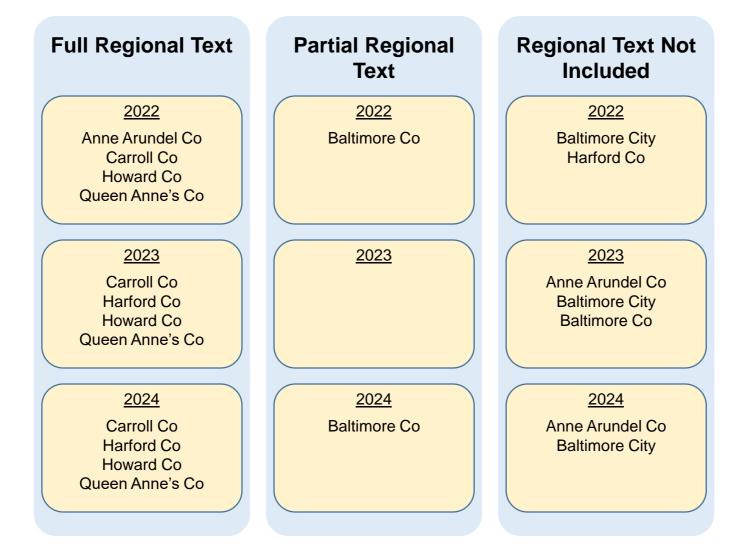
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Public Project Ideas from TIP 2025-2028 Outreach



https://bmc.maps.arcgis.com/apps/instant/sidebar/index.html?appid=f7431534f4284e8f **BMC BMC BMC**

6. 2025 Priority Letters







7. Other Business Ideas for future presentations

- I-95 HOT Lanes
 - Is MDTA doing before-and-after studies
- I-695 TSMO Project Update
 - operational 2027
- Maryland 2025 Annual Attainment Report On Transportation System Performance
 - More details on process
- North Jersey Transportation Planning Authority <u>Accessibility and</u> <u>Mobility Strategy Synthesis: Equity Assessment</u>





North Jersey Transportation Planning Authority Accessibility and Mobility Strategy Synthesis

A series of technical reports provide more detailed information related to each step of the study process :

- 1. Establish Objectives and Performance Measures
- 2. Identify Needs

- 3. Conduct Equity Assessment
- 4. Identify and Prioritize Strategies

Equity Assessment Table of Contents

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Enhancing the Pedestrian and Bicycle Environment
Integrating Equity Perspectives into Transportation Decision Making
6 Appendix: Maps of Population Demographics and Accessibility Measures
7 Appendix: Open Responses to Questions

7. Other Business

- Upcoming UPWP consultant project "Adapting to the new MDOT Prioritization Process"
 - Interest in assisting with preparing RFP?
- New federal priorities
- 2025 Meetings June 3, November 4



