



WELCOME

Please take a seat





Alternatives Public Workshop for the I-495 & I-270 Managed Lanes Study

STATE HIGHWAY ADMINISTRATION





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Purpose of Today's Workshop

- Provide update on Study Status and Schedule
- Provide summary of Purpose and Need

- Present Preliminary Range of Alternatives
- Present Screening Criteria to evaluate alternatives

Future meetings will focus on detailed alternatives and environmental/property information









What is the Traffic Relief Plan (TRP)?

- To address Maryland's congestion, a balanced approach to transportation infrastructure improvements is needed for both transit and highways
- MDOT is moving forward with \$5.6 B Purple Line LRT construction and providing over \$1.5 B in funding for Metro
- The TRP is an ambitious plan to bring innovative solutions to address the transportation challenges on Maryland's most congested roads: I-495, I-270, MD 295, I-695, I-95, and other major corridors
- Congestion on these routes has a region-wide effect on other transportation modes, including transit







Traffic Conditions - Existing

- Top 5 highest volume freeway sections in Maryland are within study area
- Today, on average, severe congestion lasts for 7 hours each day on I-270 and 10 hours each day on I-495
- Study area includes several of the most unreliable freeway sections in Maryland (highly variable travel times day to day)
- Many sections experience speeds less than 15 mph under existing conditions and traffic is expected to deteriorate





Traffic Conditions - No Build

Average	Annual	Daily	Fraffic ((AADT)

Location	2018	2040
I-270: I-370 to I-495	259,000	299,000
I-495: VA Line to I-270	253,000	282,000
I-495: I-270 to I-95	235,000	252,000
I-495: I-95 to MD 4	230,000	245,000





I-495 & I-270 P3 Program

- I-495 (Capital Beltway) from south of the American Legion Bridge (ALB) to east of the Woodrow Wilson Bridge (WWB)
- I-270 from I-495 to I-70, including the east and west I-270 spurs
- Over 70 miles of interstate improvements in Maryland





TRAFFI





Public-Private Partnership (P3)

- A P3 is a single agreement with a private sector partner, known as a concessionaire, to perform functions under a single agreement that are normally completed through multiple contracts and/or public resources. Functions for a transportation facility may include:
 - Designing
 Building
 Financing
 Operating
 Maintaining
- Using a P3 can construct projects faster, better manage risks, provide operations and maintenance more efficiently, and be delivered with significantly lesser or no tax-payer funded contribution
- State will maintain ownership and function of transportation facilities and ensure they meet public functions







I-495 & I-270 MANAGED LANES STUDY

- I-495 from south of American Legion Bridge (ALB) to east of the Woodrow Wilson Bridge (WWB)
- I-270 from I-495 to I-370, including the east and west I-270 spurs

FUTURE STUDY

 I-270 from I-370 north to I-70, beginning in 2019









The National Environmental Policy Act (NEPA) Process

- NEPA requires federal agencies to evaluate the environmental effects of their proposed actions
- The I-495 & I-270 Managed Lanes Study will include the development of an Environmental Impact Statement (EIS), which will document the potential natural, cultural, and socioeconomic effects of the study's alternatives
- The Federal Highway Administration (FHWA) serves as the lead federal agency for the EIS
- The Maryland Department of Transportation State Highway Administration (MDOT SHA) is serving as the local project sponsor and joint lead agency





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The NEPA Process





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Scoping Update from March/April 2018

- Notice of Intent (NOI) published in Federal Register (March 16, 2018)
- Launched study website:
 - Overview
 - Contact Information
 - Questions from Public
 - Surveys
- Hosted four (4) Open Houses to share study information and obtain feedback
- Participated in Local, State, and Federal Coordination Meetings









Public Scoping Comments (March 16 – May 1, 2018)









Major Themes from Public Scoping Comments

- Support for the study, specific recommendations, or fixing congestion
- Statements about tolls and the partnership with the private sector
- Concerns with effects to the environment, noise, air, and properties
- Support for improvements to transit
- Questions about the study timeline and initial outreach





Purpose and Need

- Purpose is to develop a travel demand solution that addresses congestion, improves trip reliability, and enhances existing and planned multimodal mobility and connectivity
- Study will address the following Needs:
 - Accommodate existing traffic and long-term traffic growth
 - Enhance trip reliability
 - Provide additional roadway travel choices
 - Accommodate homeland security and
 - Improve movement of goods and services
- Additional Goals of study include incorporating funding sources for financial viability and developing the study in an environmentally responsible manner







Preliminary Range of Alternatives

- A range of Reasonable Alternatives will be considered and objectively evaluated as part of the study
- The Preliminary Range of Alternatives are the high-level alternatives to be evaluated based on the Screening Criteria
- The alternatives that best meet the Screening Criteria will be carried forward for further, detailed study
- Public feedback is critical on the Preliminary Range of Alternatives and in determining the Alternatives Retained for Detailed Study







Preliminary Range of Alternatives: 15

- No-Build
- Transportation Systems Management/Travel Demand Management
- General Purpose Lanes
- Managed Lanes
 - High-Occupancy Vehicle
 - Priced
 - Bus
 - Contraflow
 - Reversible
- Transit





Definitions

- General Purpose (GP) Lanes: freeway or expressway lanes open to all motor vehicles
- Managed Lanes: highway facility or set of lanes where operating strategies are used to control number of vehicles using the lanes
- Priced Managed Lanes combines two highway management tools:
 - Congestion Pricing: use of road user pricing that varies with the level of congestion and/or time of day to control traffic demand during peak periods, providing incentives for some motorists to shift trips to off-peak times, less-congested routes, or alternative modes
 - Lane Management: approach that restricts access to designated highway lanes based on occupancy or vehicle type in designated lanes to maintain a desirable level of traffic service
- High-occupancy Vehicle Lanes (HOV): lanes reserved for high-occupancy vehicles, a motor vehicle carrying at least two or more persons including carpools, vanpools, and buses







Definitions

- Contraflow Lanes: lanes operating adjacent to but in the opposite direction of the normal flow of traffic during peak-direction travel; usually separated by pylons or movable barrier
- Reversible Lanes: lanes where direction of traffic flow can be changed to match peak direction of travel, typically inbound in the morning and outbound in the afternoon
- Transportation Systems Management (TSM): operating strategies that improve the operation and coordination of transportation facilities
- Travel Demand Management (TDM): strategies or incentives to provide the most efficient and effective use of existing transportation services and facilities (e.g., rideshare and telecommuting promotion, managed lanes, preferential parking, road pricing, etc.)





1 No Build (Existing)

All projects in Constrained Long-Range Plan (CLRP) including I-270 Innovative Congestion Management (ICM) Improvements









2 Transportation System Management (TSM) / Travel Demand Management (TDM)

Solutions along I-495 and I-270: restriping within existing pavement, peak period shoulder use, ramp metering and Active Traffic Management (ATM) strategies









3 Add 1 General Purpose (GP) Lane

Add one general-purpose lane in each direction on I-495 and I-270









4 1-Lane, High-Occupancy Vehicle (HOV) Managed Lane Network

Add one lane in each direction on I-495 and retain existing HOV lane in each direction on I-270









5 1-Lane, Priced Managed Lane Network

Add one priced managed lane in each direction on I-495 and convert one existing HOV lane in each direction to a price managed lane on I-270









6 Add 2 General Purpose (GP) Lanes

Add two general-purpose lanes in each direction on I-495 and I-270







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2-Lane, High-Occupancy Vehicle (HOV) Managed Lane Network

Add two HOV managed lanes in each direction on I-495 and retain one existing HOV managed lane and add one HOV lane in each direction on I-270







2-Lane, Priced Managed Lanes Network on I-495, 1-Lane Priced and 1-Lane, HOV Managed Lane Network on I-270 Only:

Add two priced managed lanes in each direction on I-495 and add priced managed lane and retain one HOV lane in each direction on I-270









2-Lane, Priced Managed Lane Network 9

Add two priced managed lanes in each direction on I-495 and convert one existing HOV lane to a priced managed lane and add one priced managed lane in each direction on I-270





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2-Lane, Priced Managed Lane Network and 1-Lane HOV Managed Lane Network on I-270 Only

Add two priced managed lanes in each direction on I-495 and on I-270 and retain one existing HOV lane in each direction on I-270 only





1 Collector/Distributor on I-495

Physically separate traffic using collector-distributor (C-D) lanes, adding two GP lanes in each direction on I-495; retain existing lanes and on I-270





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12A Contraflow on I-495

Convert existing general-purpose lane on I-495 to contraflow lane during peak periods





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12B Contraflow on I-270

Convert existing HOV lane on I-270 to contraflow lane during peak periods







13A Priced Managed, Reversible Lane Network on I-495

Add two priced managed reversible lanes on I-495









Price Managed, Reversible Lane Network on I-270:

Convert existing HOV lanes to two priced managed reversible lanes on I-270









Rail and Bus Transit



Heavy Rail: This alternative considers heavy rail transit parallel to the existing I-495 and/or I-270 corridors



Light Rail: This alternative considers light rail transit parallel to the existing I-495 and I-270 corridors, such as the Purple Line currently under construction



Fixed Guideway Bus Rapid Transit (Off Alignment): This alternative considers fixed guideway bus rapid transit (BRT) along a new alignment parallel to the existing I-495 and I-270 corridors













Dedicated Bus Managed Lane

Dedicated Bus Managed Lane on I-495 and I-270 Roadways













Screening Criteria









Screening Criteria



Does alternative provide additional capacity to assist in accommodating population evacuation?

Does alternative extend the ability to quickly coordinate a traffic response by allowing use by emergency responders?

MOVEMENT OF

GOODS & SERVICES

Does alternative improve movement of goods via truck freight travel?

Does alternative enhance the movement of services by improving access to employment centers?

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Next Steps

- Evaluate input from the public and environmental agencies and screen the Preliminary Range of Alternatives to the Alternatives Retained for Detailed Study (ARDS)
- Complete detailed environmental studies and traffic analysis on the ARDS
- Present the results of the analysis on the ARDS for public feedback in Winter 2018/2019 to help inform MDOT SHA in the identification of its Preferred Alternative at a later date





Your Feedback is Critical

- <u>TONIGHT</u>! Please go to Working Group Tables or Comment Table and provide your input
- AFTER TONIGHT, continue to reach out to us via:
 - Website: 495-270-P3.com
 - 495-270-p3@sha.state.md.us
 - Toll -free Number: 833.858.5960









Thank You

Please adjourn to the Displays and Workshop Tables, to offer your comments

