

Facilitated Review: Technical Inputs to the Air Quality Conformity Analysis for the Visualize 2045 Update

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Access for All Committee
April 9, 2021

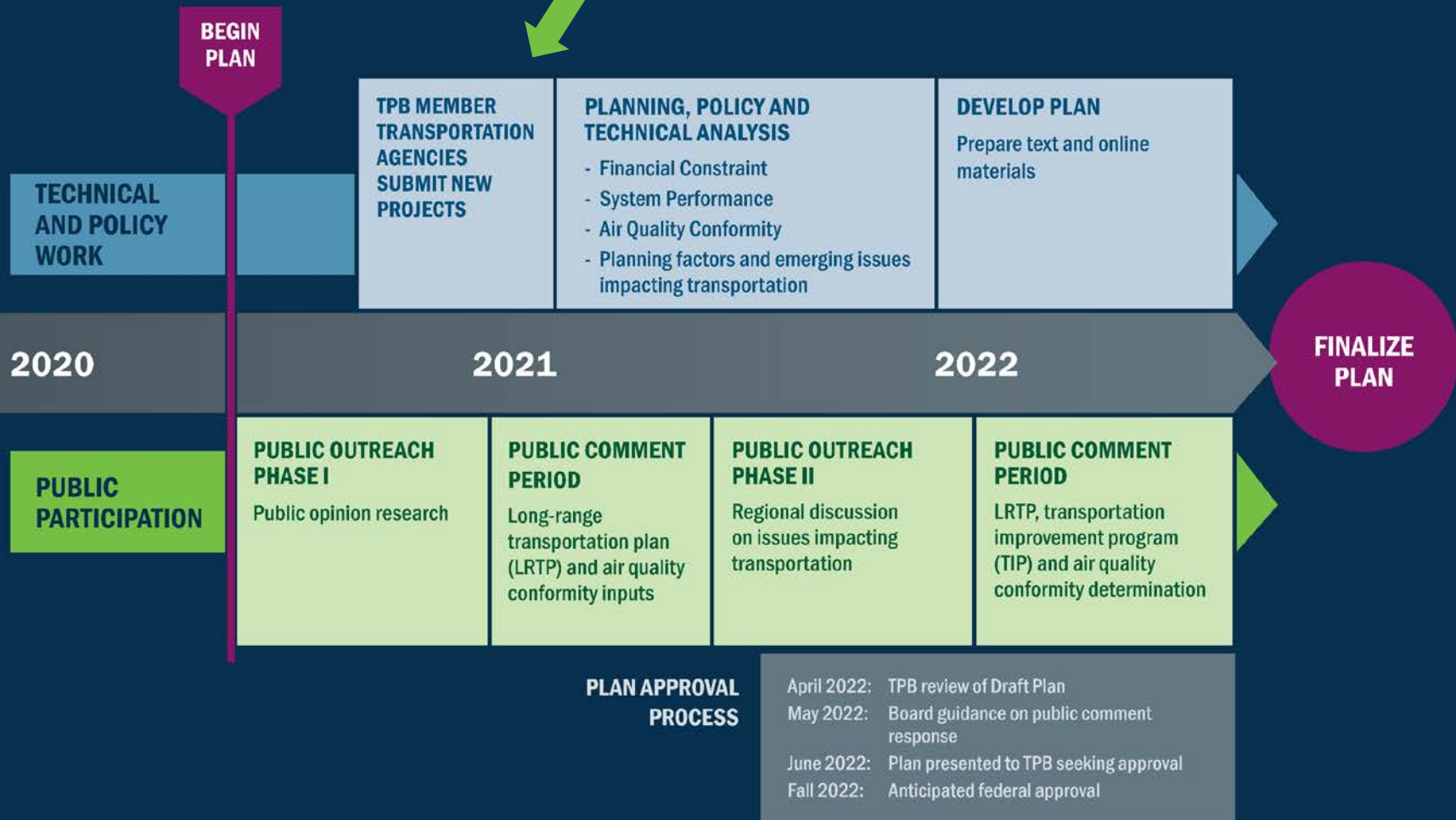
visualize
2045 A long-range
transportation plan
for the National
Capital Region



TPB's Visualize 2045 Long-Range Transportation Plan Update (2022)



We are here



Two parts of the plan

Plan's Constrained element

- Projects from approved local plans
- Projects are vetted through local planning processes
- Constrained

Rest of the Plan

- Vision and Goals
- Reflects Where We are Today
- Factors we must Consider when Planning for the Future
- Strategies for a Better Future (and more)

What are some constraints?

- **Federal Requirements**

- Fiscal constraint: expected revenues must cover project list
- Projects included through about a 20- year (minimum) horizon 2045

- **Air Quality Conformity Analysis**

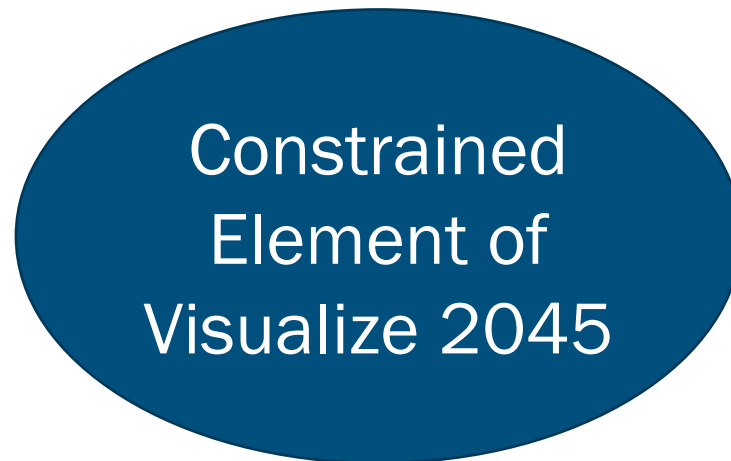
- Certain project types required – those that impact capacity

- **Funding Availability and Silos**

- Much of fed/state project funding is dedicated to specific uses, allocated through formulas
- About 80% of funding goes to maintenance

What is in the constrained element?

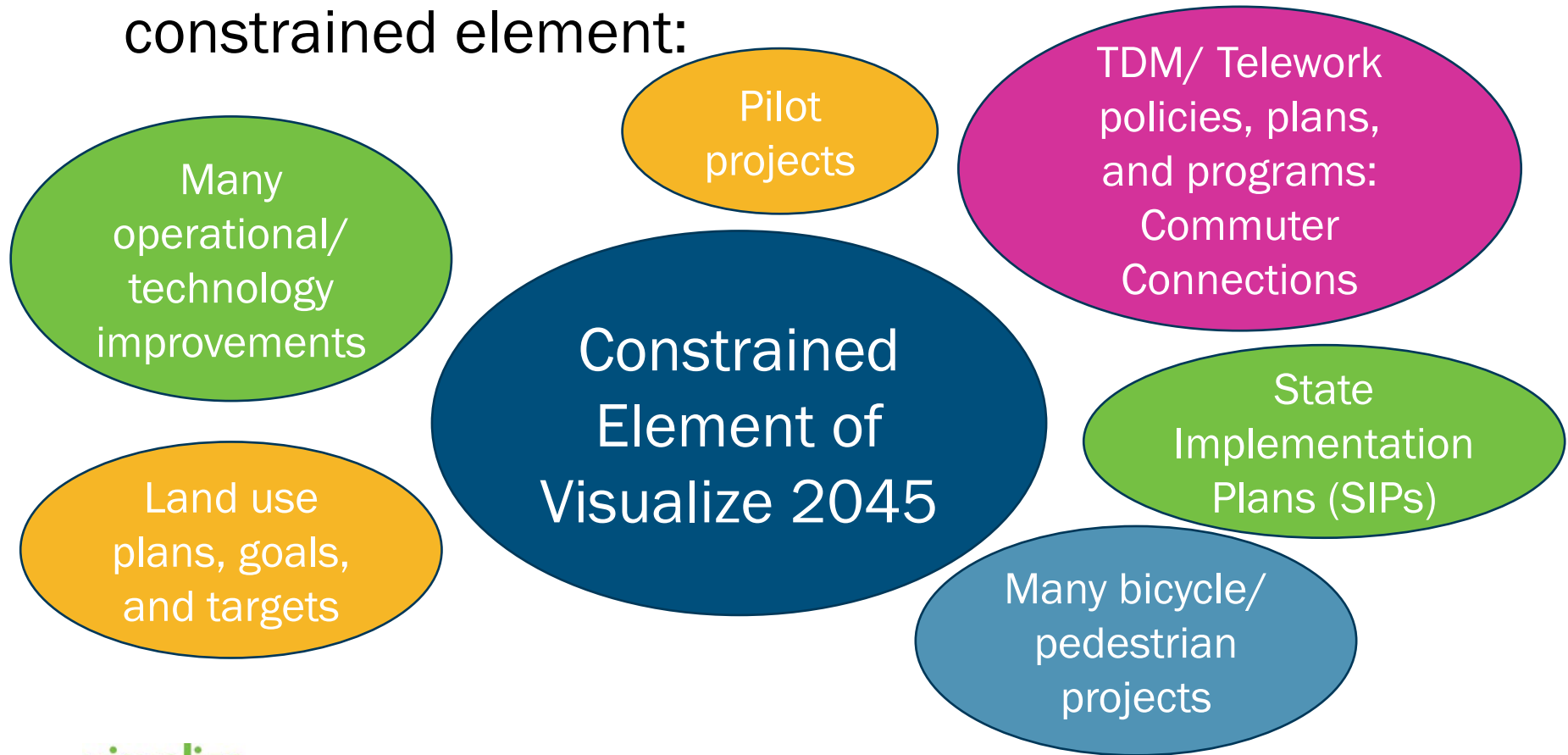
- Projects that impact air quality conformity analysis
- Projects that use federal funding



Financial constraint means we can't include projects that don't have identified funding sources

How is Visualize 2045 Implemented?

- Implementation activities extend beyond the constrained element:



Aspirational Initiatives - Implementation

- Bring Jobs and Housing Closer Together
- Improve Walk and Bike Access to Transit
- Complete the National Capital Trail
- Provide More Telecommuting and...



Implemented mostly
outside of the
Visualize 2045
constrained element

- Other Options for Commuting
- Move More People on Metrorail
- Expand Express Highway Network
- Expand Bus Rapid Transit and Transitways Regionwide



Implemented mostly
within the
Visualize 2045
constrained element

Proposed Technical Inputs

Comment Period Materials

- **Visualize 2045 Update – Comment Period Materials – Packet includes:**
 - Memorandum with overview
 - Background
 - Summary of existing highway, transit and HOV major projects
 - Maps
 - Federal and Regional Goals/Initiatives Matrixes
 - Major Project Profiles (for new Major Projects and ones already in the plan with significant changes)
 - Project Description Sheets – new/changed projects
 - Air Quality Conformity Table and Scope of Work

DDOT: New Major Project

- In the District of Columbia:
 - DDOT is proposing to implement bus-only lanes on H and I street.

H AND I STREET NW BUS PRIORITY
Proposed Change

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ROADWAY TRANSIT PED/BIKE

Project Information

Project Length	0.88 mi
Anticipated Completion	2021
Estimated Cost of Construction	\$1.1 Million
Submitting Agency	DDOT
TIP ID	3212
Anticipated Funding Sources	Federal

Project Description

H/I Street NW Bus Priority: Upgrade to existing bus lanes. Includes double bus lane adjacent to Franklin Park and Lafayette St and offset bus lane. Buses allowed in the bus lanes per DC regulations.

Existing Support for This Project

This project has been reviewed at the local, state, and/or subregional levels and is included in the following approved plans: To help improve bus travel speeds and reliability for the routes that use H and I Streets (which represent up to 20% of Metro-bus riders in the District), the District Department of Transportation (DDOT) implemented a bus lane pilot on both streets, roughly between Pennsylvania Avenue and 13th Street NW. The pilot operated from June 3, 2019, to September 27, 2019. DDOT revised designs based on this pilot and solicited feedback on the draft concepts from the community and stakeholders in late 2020 and early 2021, in preparation for construction in 2021.

Federal Planning Factors

- Support Economic Vitality
- Increase Safety for All Users
- Increase Accessibility and Mobility of People
- Protect and Enhance the Environment

Consideration of Alternatives to Adding SOV Capacity

- Not Applicable

Comment Periods (Visit macog.org/tipcomment)

April 2- May 3, 2021 - Comment on the projects before they are included in the federally required Air Quality Conformity Analysis

2022 - Comment on projects and any other aspect of the draft Visualize 2045 plan before final TIP

Interactive Project Map

How this project supports or advances RTP goals

The TRP's Regional Transportation Priorities Plan (RTP) and Aspirational Initiatives called upon the region to implement transitways to improve the performance of bus transportation in the region. This project will expand transportation choices (Goal 1) by providing more reliable travel on local bus in dedicated lanes that allow people on bicycles. This project will also connect activity centers (Goal 2) and has the potential to reduce VMT and greenhouse gases by reducing dwell time and offering an fast and reliable option instead of travel by SOV (Goal 5, 6).

Goal 1: Provide a Range of Transportation Options

- Bicycling
- Local Bus
- Metrobus

Goal 2: Promote Dynamic Activity

- Begins or ends in an Activity Center
- Promotes non-auto travel within one or more Activity Centers.

Goal 3: Ensure System Maintenance, Preservation, and Safety Centers

- Not Applicable

Goal 4: Maximize Operational Effectiveness and Safety

- Not Applicable

Goal 5: Protect and Enhance the Natural Environment

Expected to contribute to reductions in emissions of:

- Criteria Pollutants (NO_x, VOCs, PM_{2.5})
- Greenhouse Gases

Goal 6: Support Interregional and International Travel and Commerce

- Enhances, supports, or promotes the following passenger carrier modes:
 - Intercity Bus

National Capital Region
Transportation Planning Board

Information about how projects advance regional goals and address federal planning requirements is self-reported by the agencies submitting projects for inclusion in Visualize 2045.

The information on this form was last updated on April 1, 2021.

VDOT: New Major Project

- In Loudoun County, Virginia, the County and VDOT are proposing to:
 - Construct a new 4-lane road for completion in 2029, the US-50 North Collector Road

ROUTE 50/NORTH COLLECTOR ROAD
New Construction

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Project Information

Project Length	3 mi
Anticipated Completion	2029
Estimated Cost of Construction	\$110 Million
Submitting Agency	VDOT
CRID	3739
Anticipated Funding Sources	Local

Project Description

This project involves funding for planning, design, right-of-way acquisition, and construction of a roadway from Route 50 at Tall Oaks Parkway to the Air and Space Museum Parkway interchange in Fairfax County at Route 28. The project entails construction of a four-lane median divided roadway to the north of Route 50 to provide additional capacity to the Route 50 corridor.

Existing Support for This Project

This project has been reviewed at the local, state, and/or subnational levels and is included in the following approved plans:

- Loudoun County 2018 Comprehensive Transportation Plan
- The Capital Improvement Program (CIP)

Federal Planning Factors

- Support Economic Vitality
- Increase Accessibility and Mobility of People and/or Freight
- Enhance Integration and Connectivity
- Enhance Travel and Tourism

Consideration of Alternatives to Adding SOV Capacity

This agency or agencies submitting this project considered the following congestion-mitigation measures before proposing to significantly increase capacity for single-occupant vehicles (SOVs):

- Traffic operational improvements

Comment Periods (Visit <https://www.vdot.com/visualize2045>)

April 2 - May 2, 2021 - Comment on the projects before they are included in the federally required Air Quality Conformity Analysis

2022 - Comment on projects and any other aspect of the draft Visualize 2045 plan before final TFR

How this project supports or advances goals

The TPE's Regional Transportation Priorities Plan (RTPP) identifies six goals. The new Northern Collector Road looks for project to improve transportation options for improving access and connectivity to an Activity Center (Goals 1, 2). The project is designed with considerations for safety, and will reduce recurring congestion, which helps to reduce greenhouse gases while improving travel for people in vans and for freight (Goals 3, 6).

Goal 1: Provide a Range of Transportation Options

- Single-occupant (SOV)
- operational
- Local Bus

Goal 2: Promote Dynamic Activity

- Engage or assist in an Activity Center

Goal 3: Ensure System Maintenance, Preservation, and Safety Centers

- Not Applicable

Goal 4: Maximize Operational Effectiveness and Safety

- Enhance safety for motorists, transit users, pedestrians, and/or bicyclists

Goal 5: Protect and Enhance the Natural Environment

- Not Applicable

Goal 6: Support Interregional and International Travel and Commerce

- Enhance, support, or promote the following freight carrier modes:
 - Long-haul Truck
 - Local Delivery

National Capital Region Transportation Planning Board

Information about how projects advance regional goals and address federal planning requirements is self-reported by the agencies submitting projects for inclusion in Visualize 2045. The information on this form was last updated on April 7, 2021.

MDOT: Significant Change to Major Project already in Visualize 2045

- The TRP includes the following changes from the project as reflected in the 2018 plan:
 - The entire Maryland Beltway has been changed from two Express Toll Lanes (ETLs) in each direction to 2 High Occupancy Toll (HOT) lanes in each direction.
 - The segment from Virginia to MD 355 has a completion date of 2025, which is the same as in the past.
 - The segment from MD 355 to the Wilson Bridge completion date was changed from 2025 to 2030. I-270 was changed from adding two ETLs in each direction and keeping the existing High Occupancy Vehicle (HOV) lanes to adding two HOT lanes in each direction, one of which will take away the existing HOV lane in each direction.
 - The segment from the Beltway to I-370 maintains its completion date of 2025. The segment from I-370 to I-70 completion date was changed from 2025 to 2030.
 - Another stated change is that MDOT has indicated that carpool/vanpools of three or more occupants will ride free.

MDOT: Significant Change to Major Project already in Visualize 2045

- In Maryland, MDOT is proposing to update the Traffic Relief Plan:
 - The segment from the Beltway to I-370 maintains its completion date of 2025. The segment from I-370 to I-70 completion date was changed from 2025 to 2030.
 - Another stated change is that MDOT has indicated that carpool/vanpools of three or more occupants will ride free.

I-270 TOLL LANES
Proposed Change

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Project Information

Project Length	34 mi
Anticipated Completion	2025
Estimated Cost of Construction	2.4 Billion
Sponsoring Agency	MDOT (MD)
TIP ID	4423
Anticipated Funding Sources	State/Federal

Project Description

The I-270 conversion of MDOT's "Traffic Relief Plan" project will add two counterflow priced managed lanes in each direction along I-270 between the Capital Beltway (I-495) and I-70/I-64.

Existing Support for This Project

This project has been reviewed at the local, state, and/or sub-regional levels and is included in the following approved plans:

- MDOT/MD traffic relief plan
- Maryland's GreenView 2017 Transportation Priority List

Federal Planning Factors

- Support Economic Vitality
- Increase Safety for All Users
- Support Homeland and National Security
- Increase Accessibility and Mobility of Private and/or Freight
- Protect and Enhance the Environment
- Enhance Integration and Connectivity
- Promote Efficient System Management and Operation

Consideration of Alternatives to Adding SOV Capacity

The agency or agencies submitting the project proposed the following congestion mitigation measures before proposing to significantly increase capacity for single-occupant vehicles (SOV):

- Transportation demand management measures including smart management and congestion pricing
- Traffic operational improvements
- Public transportation improvements
- Intelligent Transportation Systems (ITS) technologies
- Other congestion management strategies

Comment Periods (Visit www.mdot.org/transportation)

April 2 - May 3, 2021 - Comment on this project before they are included in the federal funding. Air Quality Conformity Review.

2022 - Comment on projects and any other aspect of the draft Visualize 2045 plan before final TRP adoption.

Interactive Project Map

How this project supports or advances RTP goals

The I-270 conversion project meets more than 10 RTP and sub-regional initiatives aimed upon the region to use tolling and pricing mechanisms to manage road congestion and raise revenue. New toll lanes on the 24-mile stretch of I-270 will complement existing transportation choices (Car 1) in the region by adding carpooling on managed lanes to ensure high-occupancy toll lanes and to improve road pricing. Carpooling lanes of three or more occupants will ride free. Along with the 4895 toll lanes, this project significantly expands the region's network of priced managed lanes. The project will support economic activity (Goal 2), the region's local goals for economic growth and, increase education attainment (Goal 5).

Goal 1: Provide a Range of Transportation Options

- Single-Occupant (SOV)
- Carpool/Van
- Local Bus
- Commuter/Connector Bus
- Metrobus
- Increase accessibility for suburban transportation-disadvantaged residents

Goal 2: Promote Dynamic Activity

- Register or work in an Activity Center
- Connects two or more Activity Centers

Goal 3: Ensure System Maintenance, Preservation, and Safety Centers

- Contributes to enhanced system maintenance, automation, or safety
- Increases safety for motorists, transit users, pedestrians, and/or cyclists

Goal 4: Maximize Operational Effectiveness and Safety

- Contributes to enhanced system maintenance, automation, or safety
- Increases safety for motorists, transit users, pedestrians, and/or cyclists

Goal 5: Protect and Enhance the Natural Environment

- Contributes to reductions in emissions of:
- Greenhouse Gases (GHG, CO2e, PM2.5)
- Greenhouse Gases

Goal 6: Support Interregional and International Travel and Commerce

- Enhance, improve, or promote the following freight carrier modes:
- Freight Truck
- Local Delivery
- Air Freight
- Waterways, or promotes the following passenger carrier modes:
- Intercity Bus

National Capital Region Transportation Planning Board

Information about how projects advance regional goals and address federal planning requirements is self-reported by the agencies submitting projects for inclusion in Visualize 2045. The information on this form was last updated on April 1, 2021.

MDOT: Significant Change to Major Project already in Visualize 2045

- In Maryland, MDOT is proposing to update the Traffic Relief Plan:
 - The segment from Virginia to MD 355 has a completion date of 2025, which is the same as in the past.
 - The segment from MD 355 to the Wilson Bridge completion date was changed from 2025 to 2030. I-270 was changed from adding two ETLs in each direction and keeping the existing High Occupancy Vehicle (HOV) lanes to adding two HOT lanes in each direction, one of which will take away the existing HOV lane in each direction.

1-95/I-495 TOLL LANES
Proposed Change

visualize 2045 | Strategic Transportation Plan for the National Capital Region

Project Information

Project Length	40.00
Anticipated Completion	2030
Lead Agency	MDOT
Statewide Agency	MDOT
Anticipated Funding Source	Federal
IP ID	1452
Anticipated Running Status	Under Construction

Project Description
The 1-95/I-495 TOLL LANES project will add two dynamically priced toll lanes in each direction along the Capital Beltway between the Virginia and the American Legion Bridge to the Maryland end of the Northern Branch Bridge.

Existing Support for This Project
This project has been reviewed at the local, state, and/or transportation levels and is included in the following regional plans:

- MDOT State Safety Plan
- Maryland Statewide Transportation Needs Study
- 2008 Prince George's County Master Plan of Transportation (MPTC)

Federal Planning Factors

- Economic Development
- Support National and Personal Security
- National Accessibility and Mobility of People and Freight
- Project and Enhance the Environment
- Increase Employment and Livability
- Promote Efficient System Management and Operation

Consideration of Alternatives to Address SOV Capacity
The agency is exploring the project considered for the following competition mitigation resources before presenting to the public for review and selection of the preferred alternative (SOV):

- Transportation Demand Management (including carpooling, transit, and teleworking)
- Multi-modal Transportation System (M-TS) alternatives
- Other mitigation measures and strategies

Relevant National Transportation Planning Act (NTA) Requirements
April 2, May 3, 2002. Consistent with the project, the project is included in the National Inventory of Quality Mobility Analysis.

2002. Consistent with the project, the project is included in the National Inventory of Quality Mobility Analysis.

How this project supports or advances RTP goals
The RTP's National Transportation System (NTS) and Regional Goals are aligned with the region's long-term vision and growth strategy. The project will support the region's transportation goals by providing additional transportation capacity along I-95 in the region by adding dynamically priced toll lanes to increase the flow of traffic and reduce congestion. The project will also support the region's transportation goals by providing additional transportation capacity along I-95 in the region by adding dynamically priced toll lanes to increase the flow of traffic and reduce congestion. The project will also support the region's transportation goals by providing additional transportation capacity along I-95 in the region by adding dynamically priced toll lanes to increase the flow of traffic and reduce congestion.

Goal 1: Provide a Range of Transportation Options

- Enhance Transit
- Support Multimodal
- Support Active Transportation

Goal 2: Promote Economic Activity

- Support and Enhance the Environment
- Increase Employment and Livability

Goal 3: Ensure System Maintenance, Preservation, and Safety

- Increase Safety for Multimodal
- Increase Safety for Multimodal

Goal 4: Maximize Operational Effectiveness and Safety

- Increase Safety for Multimodal
- Increase Safety for Multimodal

Goal 5: Protect and Enhance the Natural Environment

- Increase Safety for Multimodal
- Increase Safety for Multimodal

Goal 6: Support Interregional and International Travel and Commerce

- Increase Safety for Multimodal
- Increase Safety for Multimodal

National Capital Region Transportation Planning Board

Information about how projects advance regional goals and address federal planning requirements is supported by the agency's planning process for the National Inventory of Quality Mobility Analysis.

The information on this form was last updated on April 1, 2021.

TABLE 1 VISUALIZE 2045 UPDATE - PROJECT SUBMISSIONS AND THE REGIONAL TRANSPORTATION PRIORITIES PLAN GOALS

This matrix provides a visual summary of the responses provided by the relevant implementing agencies as to how their proposed projects and updated projects support the goals identified in the RTPP.

Project ID			SOV	HOV	MetroRail	Commuter Rail	Streetcar/LL Rail	BRT	Exp. Bus	Metrobus	Local Bus	Bicycling	Walking	Other	Disadvantaged Groups	Non Auto Travel / Reduce VMT	Begin / End in AC	Connect ACs	Non-Auto w/ in AC	Connect FEA to ACs	Maintenance	Reduce Time w/o Capacity	Enhance Safety	Criteria Pollutants	Greenhouse Gases	Long Haul Truck	Local Delivery	Freight Rail	Freight Air	Air Passenger	Amtrak	Intercity Bus
MAJOR PROJECTS*																																
1.	H&I Bus Lanes	\$ 1.1 Million	2021							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	
2.	I-270 Toll Lanes	\$ 3.4 Billion	2025	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
3.	I-495 Toll Lanes	\$ 4.2 Billion	2030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
4.	US50 North Collector Rd	\$ 110 Million	2029	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
OTHER PROJECTS																																
5.	16th St NW	\$ 2 Million	2024	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
6.	MD 85 Buckeystown Pike	\$ 140 Million	2035	<input checked="" type="checkbox"/>											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			
7.	VA 620 Braddock Rd	\$ 34 Million	2028							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							
8.	Worldgate Dr Ext.	\$ 20 Million	2030												<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
9.	VA 607 Loudoun Cty Pky	\$ 3 Million	2022			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
10.	VA 645 Croson Ln	\$ 19 Million	2027			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>																
11.	VA 659 Belmont Ridge Rd	\$ 68 Million	2025									<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							
12.	Crosstrail Blvd	\$ 66 Million	2026						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
13.	VA 3171 Northstar Blvd	\$ 33 Million	2028								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
14.	Annapolis Way Ext	\$ 8.7 Million	2028		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
15.	Horner Rd	\$.3 Million	2030		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
16.	Dale City Pkwy Node New Through Blvd	\$ 10 Million	2030								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>								
17.	Williamson Blvd	\$ 3 Million	2030							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
18.	Alexandria 4th Track	\$ 185 Million	2025						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
19.	Broad Run Expansion	\$ 164 Million	2025		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
20.	Observation Drive	\$ 113 Million	2035						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>

* Major projects are defined as changes to interstates, major arterials, and expressways or freeways with at-grade intersections, as well as dedicated transit facilities.

TABLE 3
VISUALIZE 2045 UPDATE - PROJECT SUBMISSIONS
AND THE FEDERAL PLANNING FACTORS

This matrix provides a visual summary of the responses provided by the relevant implementing agencies as to how their proposed projects support the planning factors set forth in the FAST Act

			Estimated Cost	Projected Completion	Economic Vitality	Safety	Homeland Security	Accessibility/Mobility People	Accessibility/Mobility Freight	Environment	Integration/Connectivity	Management & Operation	Preservation	Resiliency & Stormwater Impact	Tourism
MAJOR PROJECTS*															
1. H & I Bus Lanes	\$1.1 Million	2021	✓	✓		✓		✓							
2. I-270 Toll Lanes	\$3.4 Billion	2030	✓	✓	✓	✓	✓	✓	✓	✓					
3. I-495 Toll Lanes	\$4.2 Billion	2025	✓	✓	✓	✓	✓	✓	✓	✓					
4. US 50 North Collector Rd	\$110 Million	2028	✓			✓	✓		✓						✓
OTHER NEW PROJECTS															
5. 16th St NW	\$2 Million	2024	✓	✓		✓		✓	✓	✓					
6. MD 85 Buckeystown Pike	\$140 Million	2035	✓												
7. VA 620 Braddock Rd	\$34 Million	2028		✓					✓	✓					
8. Worldgate Dr Ext.	\$20 Million	2030				✓									
9. VA 607 Loudoun Cty Pky	\$3 Million	2022		✓					✓						
10. VA 645 Croson Ln	\$19 Million	2027				✓			✓						
11. VA 659 Belmont Ridge Rd	\$68 Million	2025	✓	✓	✓	✓	✓	✓	✓	✓					
12. Crosstrail Blvd	\$66 Million	2026				✓	✓		✓					✓	
13. VA 3171 Northstar Blvd	\$33 Million	2028		✓		✓			✓						
14. Annapolis Way Ext	\$8.7 Million	2028	✓			✓			✓						
15. Horner Rd	\$0.3 Million	2030	✓			✓			✓						
16. Dale City Parkway Node New Through Boulevard	\$10 Million	2030				✓			✓						
17. Williamson Blvd	\$3 Million	2030				✓									
18. Alexandria 4th Track	\$185 Million	2025	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
19. Broad Run Expansion	\$164 Million	2025	✓	✓		✓	✓	✓	✓	✓			✓	✓	
20. Observation Dr	\$113 Million	2035	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓

Federal Planning Factors

- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
- Increase the safety of the transportation system for all motorized and non-motorized users.
- Increase the ability of the transportation system to support homeland security and to safeguard the personal security of all motorized and non-motorized users.
- Increase accessibility and mobility of people.
- Increase accessibility and mobility of freight.
- Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
- Promote efficient system management and operation.
- Emphasize the preservation of the existing transportation system.
- Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface Transportation
- Enhance travel and tourism

* Major projects are defined as changes to interstates, major arterials, and expressways or freeways with at-grade intersections, as well as dedicated transit facilities.

TABLE 2
VISUALIZE 2045 UPDATE - PROJECT SUBMISSIONS
AND THE ASPIRATIONAL INITIATIVES

This matrix provides a visual summary of the responses provided by the relevant implementing agencies as to how their proposed projects support the Aspirational Initiatives

	Estimated Cost	Projected Completion	Bring Jobs and Housing Closer Together	Expand Bus Rapid Transit and Transitways Regionwide	Move More People on Metrorail	Provide More Telecommuting and Other Options for Commuting	Expand Express Highway Network	Improve Walk and Bike Access to Transit	Complete the National Capital Trail
MAJOR PROJECTS*									
1. H & I Bus Lanes	\$1.1 Million	2021		✓				✓	
2. I-270 Toll Lanes	\$3.4 Billion	2030					✓		
3. I-495 Toll Lanes	\$4.2 Billion	2025					✓		
4. US 50 North Collector Rd	\$110 Million	2028	✓				✓		
OTHER NEW PROJECTS									
5. 16th St NW	\$2 Million	2024							
6. MD 85 Buckeystown Pike	\$140 Million	2035							
7. VA 620 Braddock Rd	\$34 Million	2028						✓	
8. Worldgate Dr Ext.	\$20 Million	2030					✓		
9. VA 607 Loudoun Cty Pky	\$3 Million	2022						✓	✓
10. VA 645 Croson Ln	\$19 Million	2027			✓			✓	✓
11. VA 659 Belmont Ridge Rd	\$68 Million	2025						✓	
12. Crosstrail Blvd	\$66 Million	2026					✓		
13. VA 3171 Northstar Blvd	\$33 Million	2028							
14. Annapolis Way Ext	\$8.7 Million	2028	✓					✓	
15. Horner Rd	\$0.3 Million	2030	✓					✓	
16. Dale City Parkway Node New Through Boulevard	\$10 Million	2030	✓					✓	
17. Williamson Blvd	\$3 Million	2030						✓	
18. Alexandria 4th Track	\$185 Million	2025							
19. Broad Run Expansion	\$164 Million	2025				✓		✓	
20. Observation Dr	\$113 Million	2035		✓				✓	

* Major projects are defined as changes to interstates, major arterials, and expressways or freeways with at-grade intersections, as well as dedicated transit facilities.

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