

Visualize 2045: Briefing on Project Inputs and Draft Scope of Work for the Air Quality Conformity Analysis for the 2022 Update to the Plan and FY 2023-2026 TIP

Stacy M. Cook
TPB Transportation Planner

Agenda Item 9
April 21, 2021

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



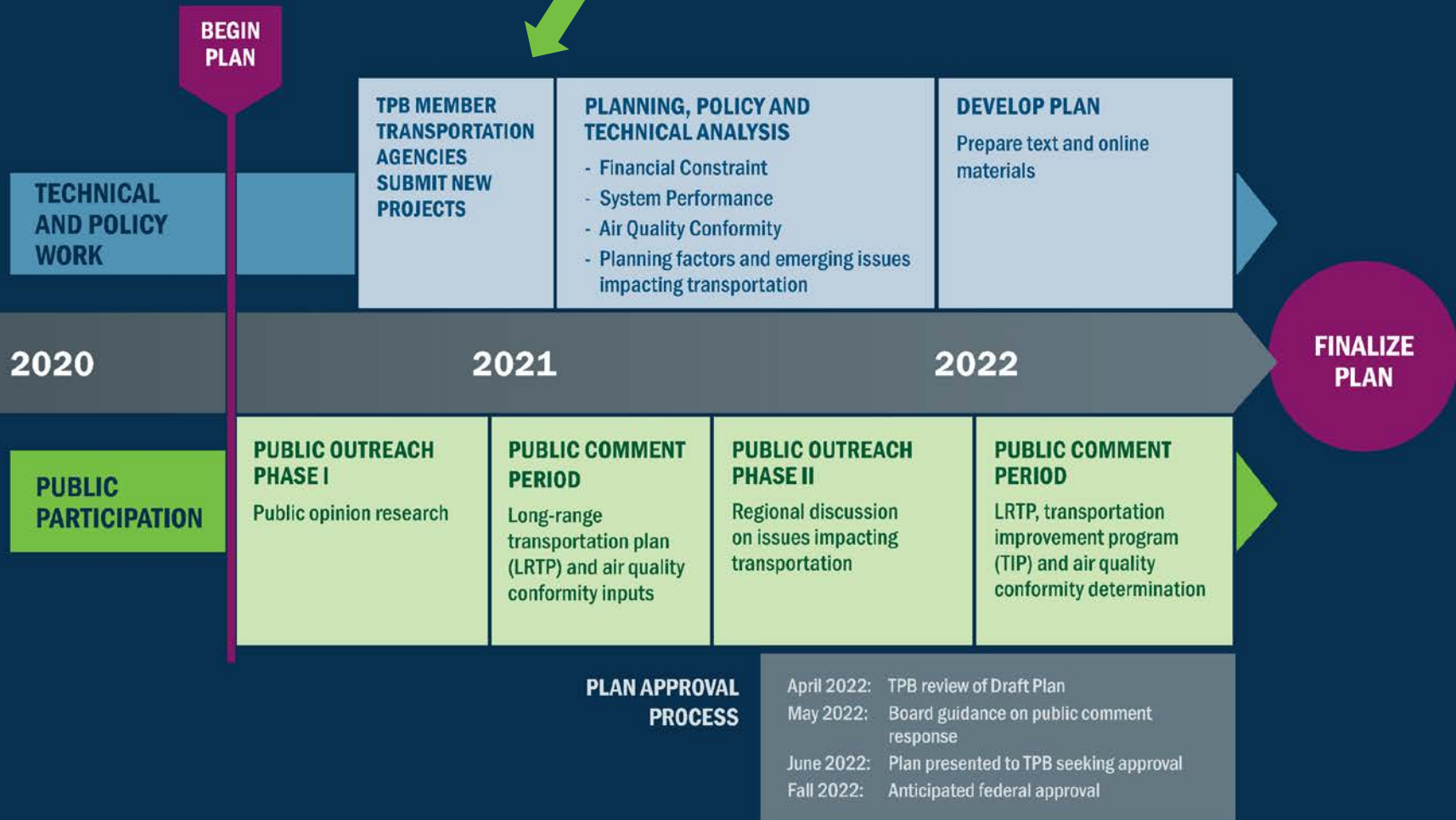
Work Session – Brief Summary

- 10:30 A.M. 1. Welcome, TPB Director Srikanth
- 10:35 A.M. 2. Purpose of the facilitated session, Chair Allen
- 10:40 A.M. 3. Brief staff summary of comment period materials, TPB Transportation Planner, Ms. Cook
- **Board Discussion and Questions for Submitting Agencies:**
 - 10:45 A.M. 4. District of Columbia projects
 - 11:00 A.M. 5. Virginia projects
 - 11:20 A.M. 6. Maryland projects
 - 11:45 A.M. 7. Other projects / Technical Inputs
 - 11:55 A.M. 8. Adjourn

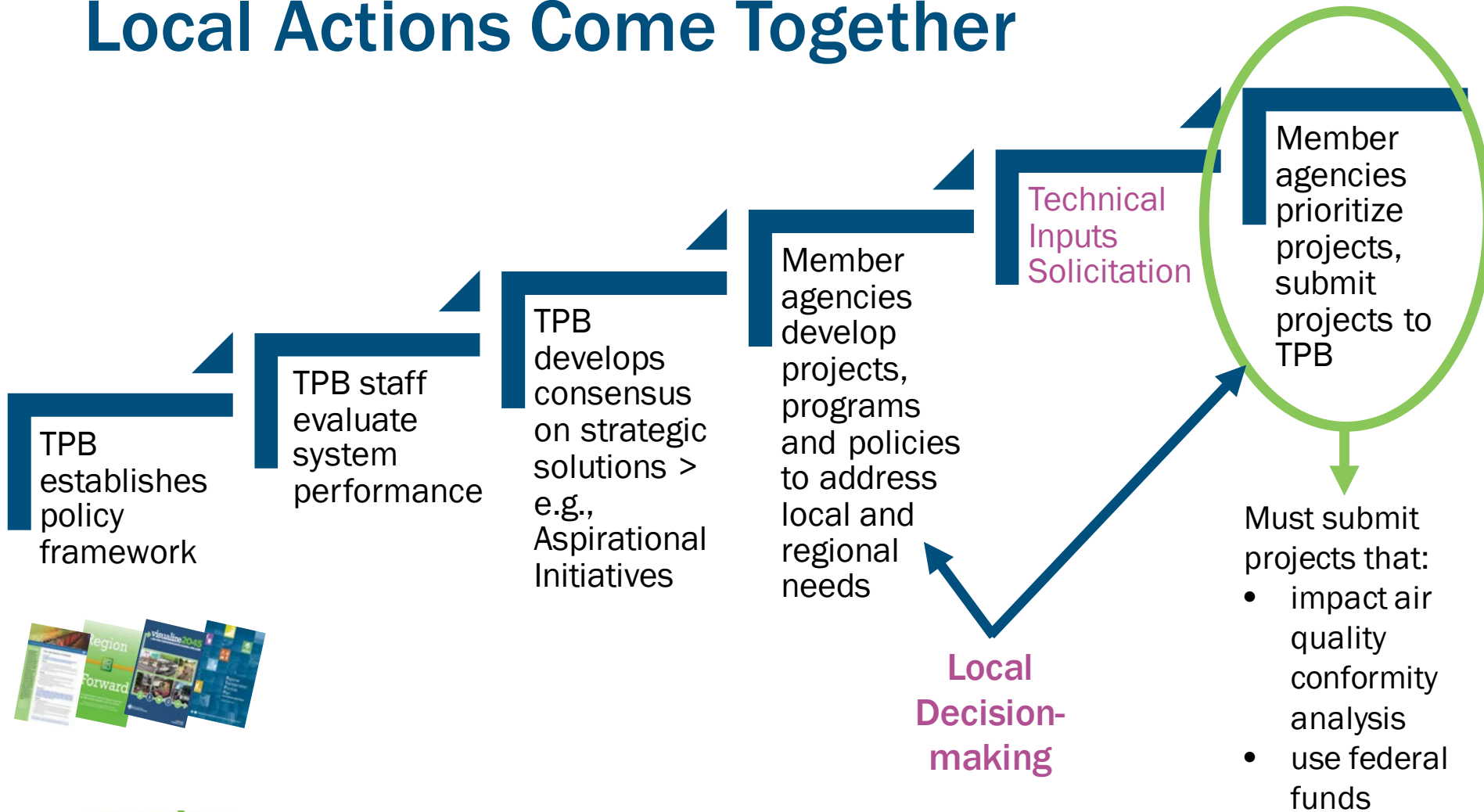
TPB's Visualize 2045 Long-Range Transportation Plan Update (2022)



We are here



Visualize 2045: A Regional Vision and Local Actions Come Together



Two Parts of Visualize 2045

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?

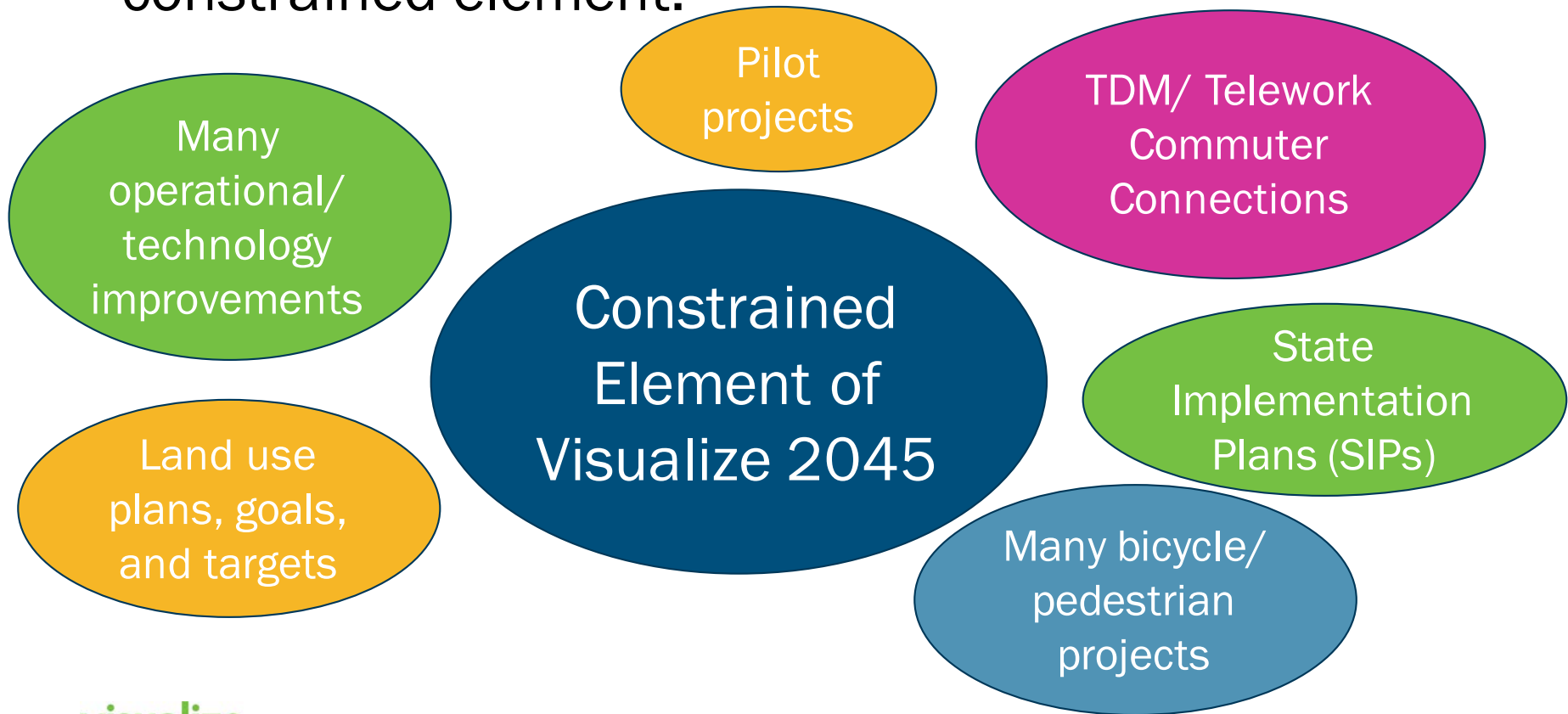
- Projects that impact air quality conformity analysis
- Projects that use federal funding

Constrained
Element of
Visualize 2045

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

We are here

Climate Change Mitigation Study of 2021 as input to Visualize 2045 Update

April 2-May 3
2021

June
2021

June 2021 -
Jan 2022

April
2022

June
2022

Step 1

Update and
add projects,
public
comment

Step 2 -

Request Board
approval new
inputs for
analysis

Step 3 -

Conduct
analysis and
develop plan
draft chapters

Step 4 -

Post draft plan
and AQC results
for public
comment

Step 5 -

Request Board
approval of
plan, TIP, AQC
results



TPB Climate Change Mitigation
Study of 2021 –conducted in
CY 2021

Results merged into
Visualize 2045

Facilitated Review of 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

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

MDOT: Significant Change to Major Project already in Visualize 2045

The I-270 component of MDOT's "Traffic Relief Plan" project, is in the current plan, Visualize 2045. MDOT is proposing changes.

New Description: Project will add one High Occupancy Toll (HOT) managed lane in each direction along I-270 between the Capital Beltway (I-495) and I-70/US 40, while converting the existing HOV lane in each direction to a HOT lane.

Proposed Changes:

- Changing the managed lanes along I-270 from Express Toll Lanes (ETL) in each direction to HOT lanes in each direction.
 - *Note: For both TRP projects: all users pay tolls on ETLs, only those vehicles not meeting high occupancy requirements pay tolls on HOT lanes. Carpool/vanpools of three or more occupants will travel toll-free on the HOT lanes on the I-495 and I-270 components of the TRP. Transit buses will also travel toll-free.*
- Adding one additional HOT lane in each direction (previously proposed two lanes are being reduced to one while converting the existing HOV lanes to HOT lanes in each direction).
- Changing the completion date for the segment from I-370 to I-70 from 2025 to 2030.

MDOT: Significant Change to Major Project already in Visualize 2045

The I-495 component of MDOT's "Traffic Relief Plan" project, is in the current plan, Visualize 2045. MDOT is proposing changes

New Description: Project will add two High Occupancy Toll (HOT) managed lanes in each direction along the Capital Beltway between the Virginia end of the American Legion Bridge to the Maryland end of the Woodrow Wilson Bridge

Proposed changes:

- Changing the managed lanes along the entire Maryland Capital Beltway from Express Toll Lanes (ETLs) to High Occupancy Toll (HOT) lanes in each direction
- Changing the completion date for the segment of the HOT lanes from MD 355 to the Wilson Bridge from 2025 to 2030

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 EEA 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"/>				
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"/>						<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"/>																
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"/>	
13.	VA 3171 Northstar Blvd	\$ 33 Million	2028								<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"/>								
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"/>		
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"/>	
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 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.

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

MAJOR PROJECTS*			Estimated Cost	Projected Completion	Economic Vitality	Safety	Homeland Security	Accessibility/Mobility People	Accessibility/Mobility Freight	Environment	Integration/Connectivity	Management & Operation	Resiliency & Stormwater Impact	Tourism
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.

Air Quality Conformity Inputs and Scope of Work

Air Quality Conformity Scope of Work

Pollutants	Ozone Season VOC and NOx
Emissions Model	MOVES2014b
Conformity Test	<u>Budget Test</u> : Using mobile emissions budgets most recently approved by EPA: 2008 Ozone NAAQS Maintenance Plan mobile budgets found adequate by EPA in August 2018.
Vehicle Fleet Data	July 2020 (DC) ² and December 2020 (MD & VA) vehicle registration data
Geography	8-hour ozone non-attainment area
Network Inputs	Regionally significant projects
Land Activity	Cooperative Forecasts Round 9.2
HOV/HOT	<u>VA</u> : I-95, I-395, and I-495 are all HOT3+; I-66 inside the Beltway will convert from HOT2+ to HOT3+ when I-66 outside the Beltway opens as HOT3+; the Dulles Toll Road will convert from HOV2+ to HOV3+ in 2023; all other HOV facilities will be HOV2+ through 2045 <u>MD</u> : HOV facility on US 50 will remain HOV2+ through 2045; HOV facility on I-270 will convert from HOV2+ to HOT3+ when an additional HOT lane is added; planned additional Capital Beltway express toll lanes will be HOT3+ when added
Roadway Restrictions	Roadway restrictions, such as truck prohibitions, are reflected in the travel model network using information supplied by the Departments of Transportation
Transit Constraint	NO Metrorail “capacity constraint” (removed with March 2018 passage of annual funding for WMATA agreement)
Analysis Years	2021 or 2024 ³ , 2025, 2030, 2040, and 2045
Modeled Area	6,800 square mile area with 3,722 Transportation Analysis Zones (TAZs)
Travel Demand Model	Gen2/Version 2.4 or latest

Draft

Conformity Project Input Table

2022 Update to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS
(highway)

DRAFT 3/29/2021

PIT Project ID	Con ID	Project ID	Agency ID	Improvement	Facility	From	To	Facility		Lanes		Completion Date
								Fr	To	Fr	To	
CE2248	942	NRS	PG5811	Reconstruct	MD 223	MD 4	Steed Road	3	3	2	2	2045
CE1207	175	MS18D	PG6541	Widen	MD 450 Annapolis Road	Stonybrook Drive	west of MD 3	2	2	2	4	2020 2030
	516	same as MC15B	MO344 1	Construct	Montrose Parkway	Randolph Road	East of Parklawn Drive	0	2	0	4	2020
6384	152	BRAC nrs	MO593 1	Reconstruct	BRAC Intersection Improvements near the National Naval Medical Center, Bethesda			2	2			2020 complete
Frederick County												
Secondary												
	648	MS36C	FR5491	Widen/Upgrade	MD 180 Ballenger Creek Pike	Ballenger Center Drive	Corporate Drive	3	2	2	4	2020
	993	in FS3		Widen/Upgrade	Christopher's Crossing	Whittier Drive	Poole Jones Road	3	3	2	4	2024
	880	FS3		Expansion	Christopher's Crossing	Walter Martz Road	Thomas Johnson Drive	3	3	0 to 2	4	2020
	879	NRS		Construct	Christopher's Crossing	Shookstown Road	Rocky Springs Road	3	3	0	4	2026
	651	FS2a		Widen	Monocacy Boulevard	Schifferstadt Boulevard	Gas House Pike	3	3	2	4	2019
	691	NRS	F3	Construct	Spectrum Drive	Technology Way	MD 85 Buckeystown Pike	0	4	0	2	2030
Montgomery County												
Secondary												
3498	208	NRS		Construct	Burtonsville Access Road	MD 198 Spencerville Road	School Access Road in Burtonsville	0	4	0	2	2025
5944	597	NRS		Construct	Century Boulevard	Current terminus south of Oxbridge Tract	Intersection with future Dorsey Mill Road	0	3	0	4	2020 2013 Completed
CE1577	199	MC43		Construct	Dorsey Mill Road Bridge over I-270	Century Blvd.	Milestone Center Dr.	0	3	0	4	2020 2030
3049	112	MC7A		Widen	Goshen Road South	South of Girard Street	1000 feet north of Warfield Road	3	3	2	4	2025 2030
CE1245	172	MC11A		Construct	M 83 MidCounty Highway Extended	MD 27 Ridge Road	Middlebrook Road	0	2	0	4-6	2025 2045
CE1245	204	MC11D	509337-1	Construct	M 83 Midcounty Highway Extended	Middlebrook Road	Montgomery Village Avenue	0	2	0	4-6	2025 2045
	113	MC12F		Widen	MD 118 Germantown Road Extended	MD 355	M 83 at Watkins Mill Road	2	2	3	4	2020

NOTE: Shaded areas represent changes from the 2020 Amendment to Visualize 2045

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