

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

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TPB Transportation Planner

TPB Work Session
April 21, 2021

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



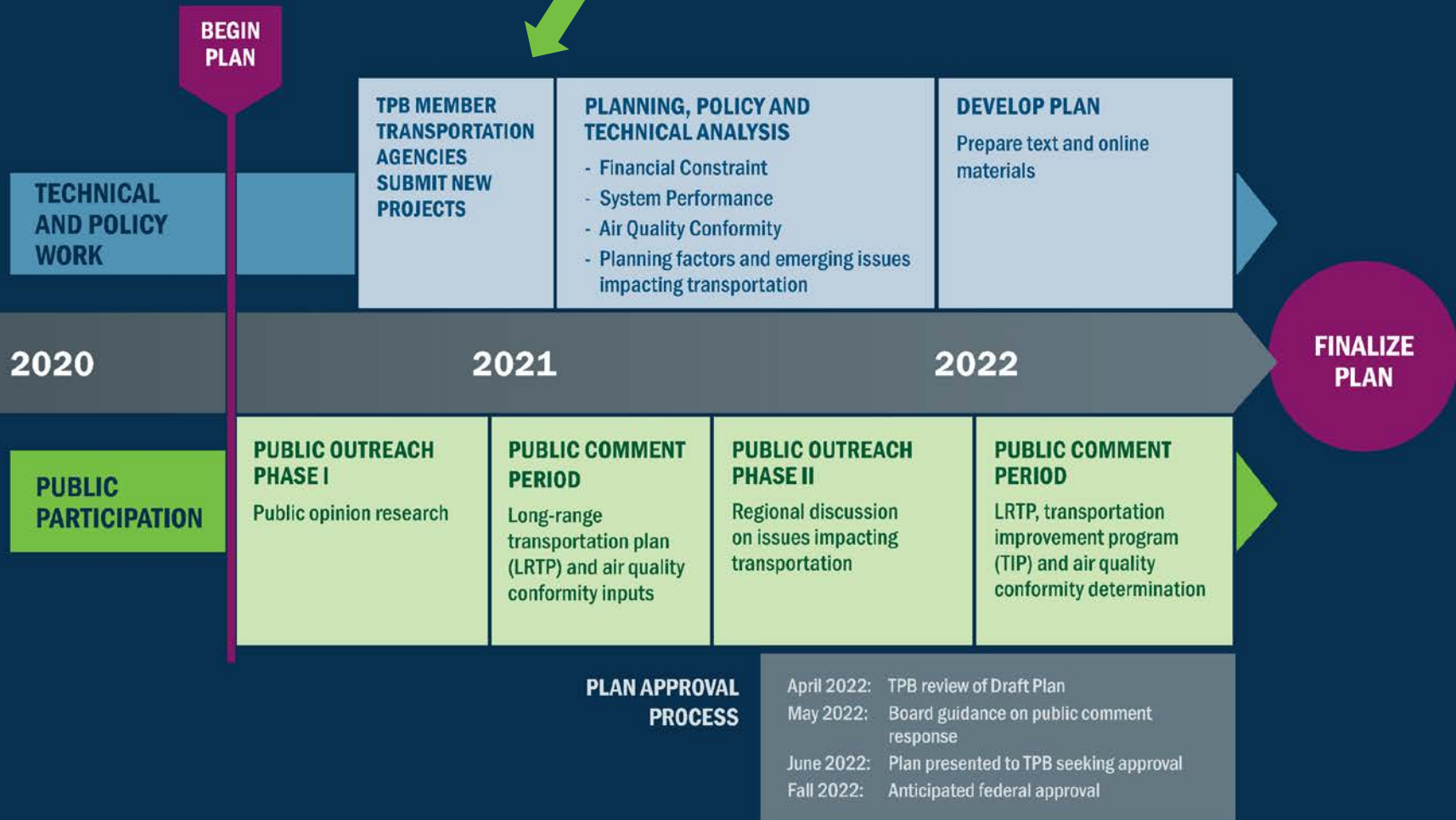
Agenda

- 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

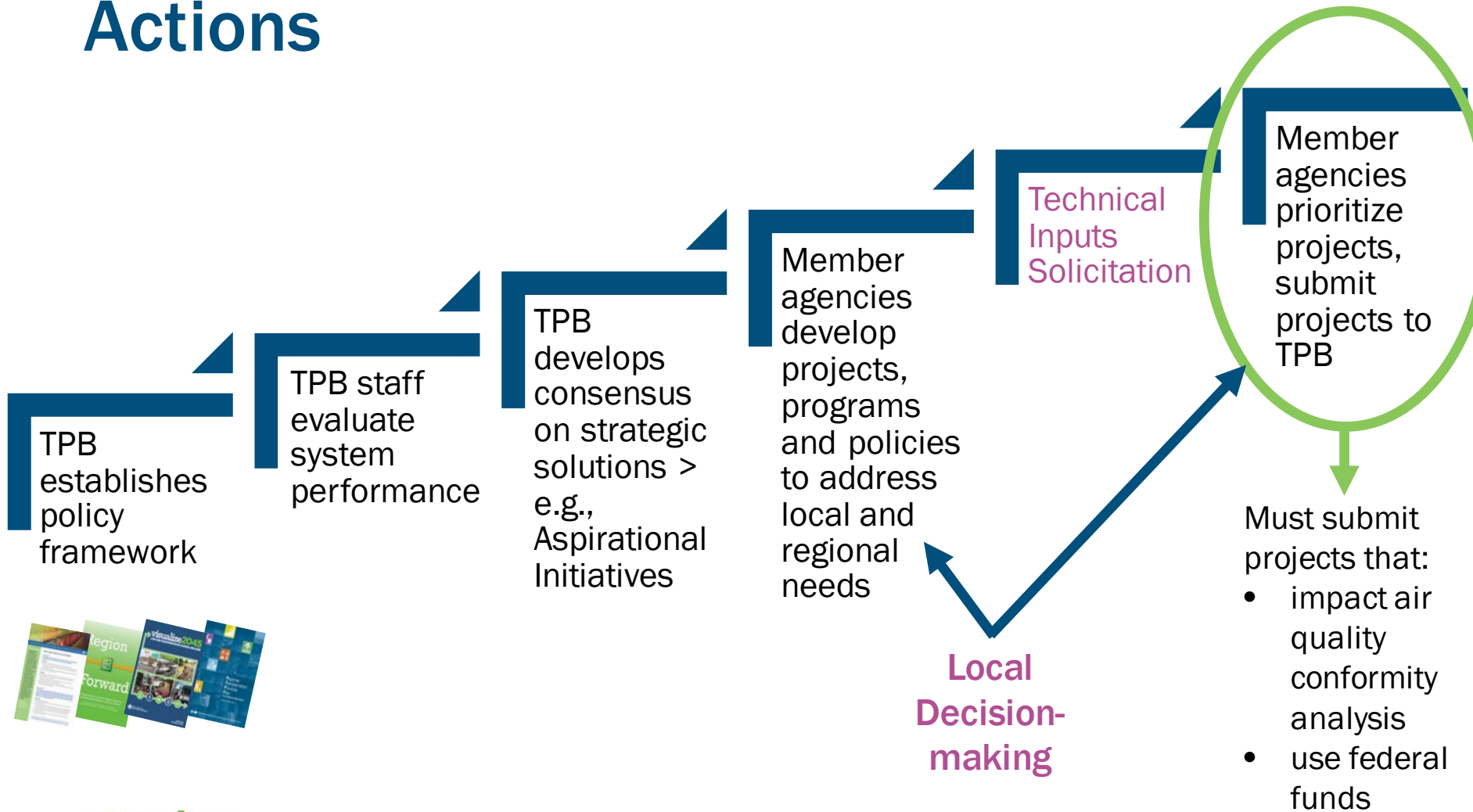
TPB's Visualize 2045 Long-Range Transportation Plan Update (2022)



We are here



Visualize 2045: a Regional Vision, Local Actions



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?

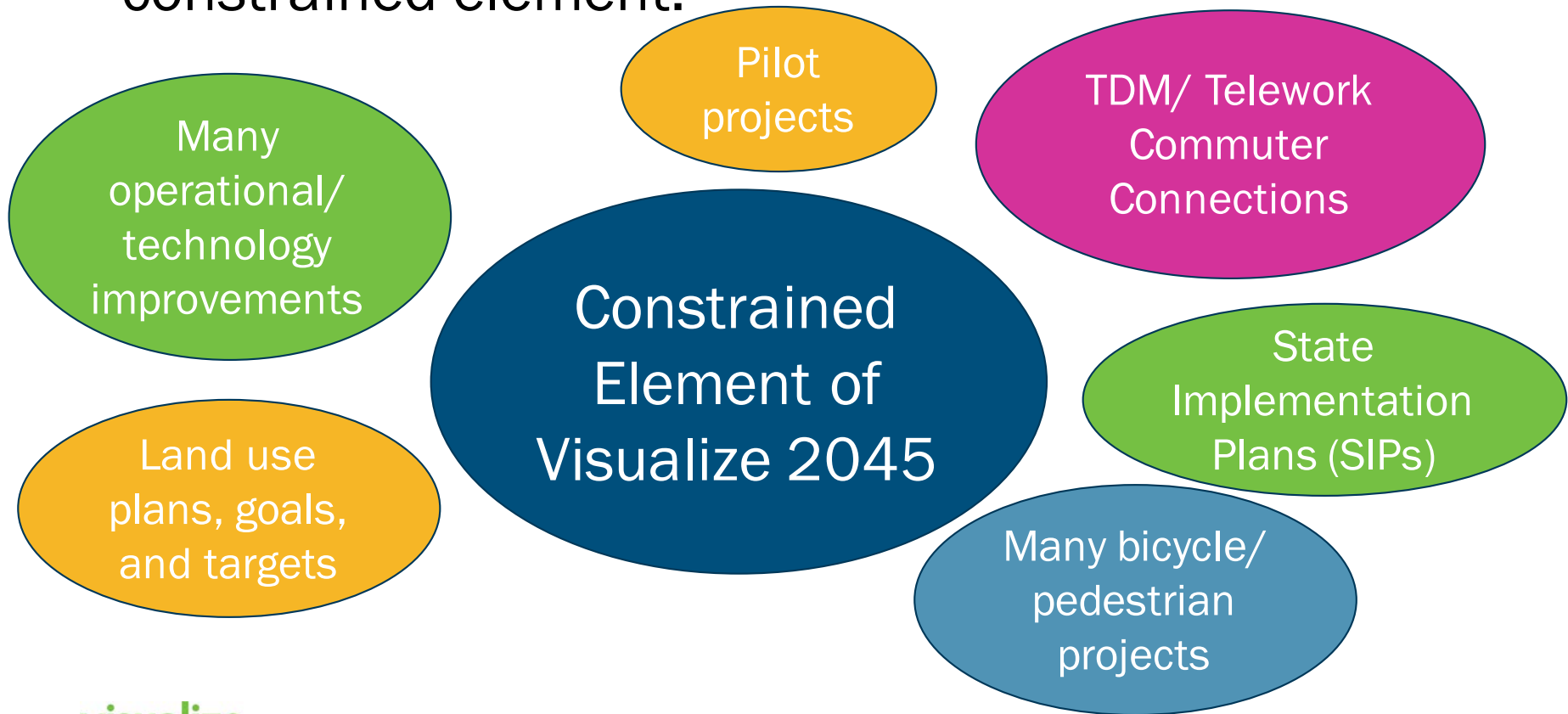
- Projects that impact air quality conformity analysis
- Projects that use federal funding

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 -

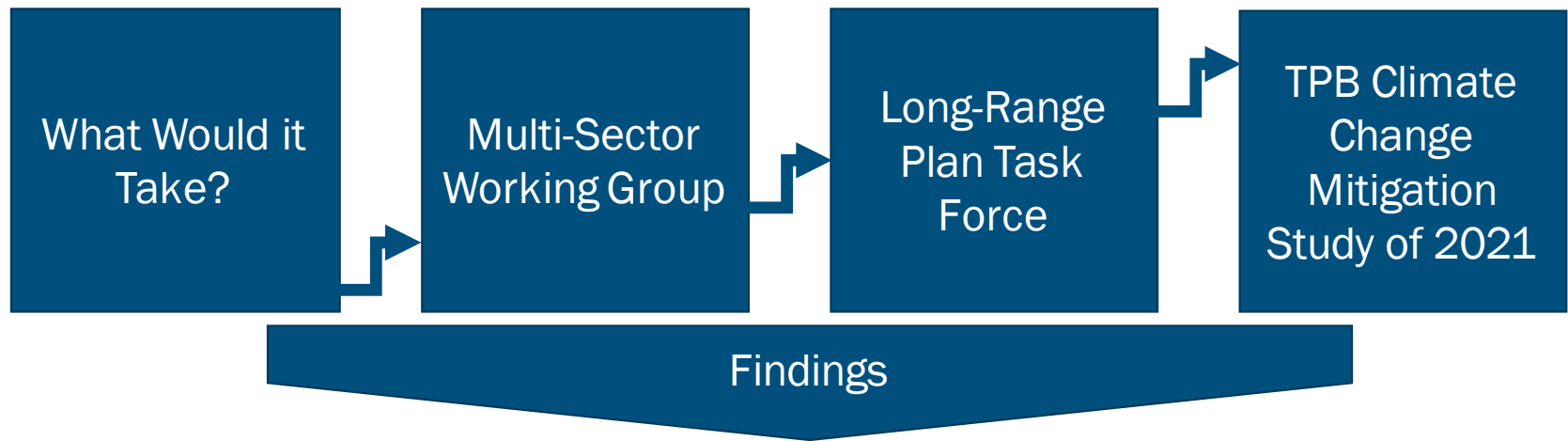
Request Board
approval of
plan, TIP, AQC
results



TPB Climate Change Mitigation
Study of 2021 - to be
conducted in CY 2021

Results merged into
Visualize 2045

Past Climate/Scenario Studies: Impacts on Projects, Programs, Policies in Visualize 2045



Programs & Policies – not in Constrained Element

- Funding/prioritization policies
- EV implementation policies
- VMT tax and parking fees
- Operations and eco-driving
- Land use policies and plans
- Telework policies

Projects – not in Constrained Element

- Many Bicycle/Pedestrian Projects
- Placemaking Projects
- Development/land use activity
- EV implementation

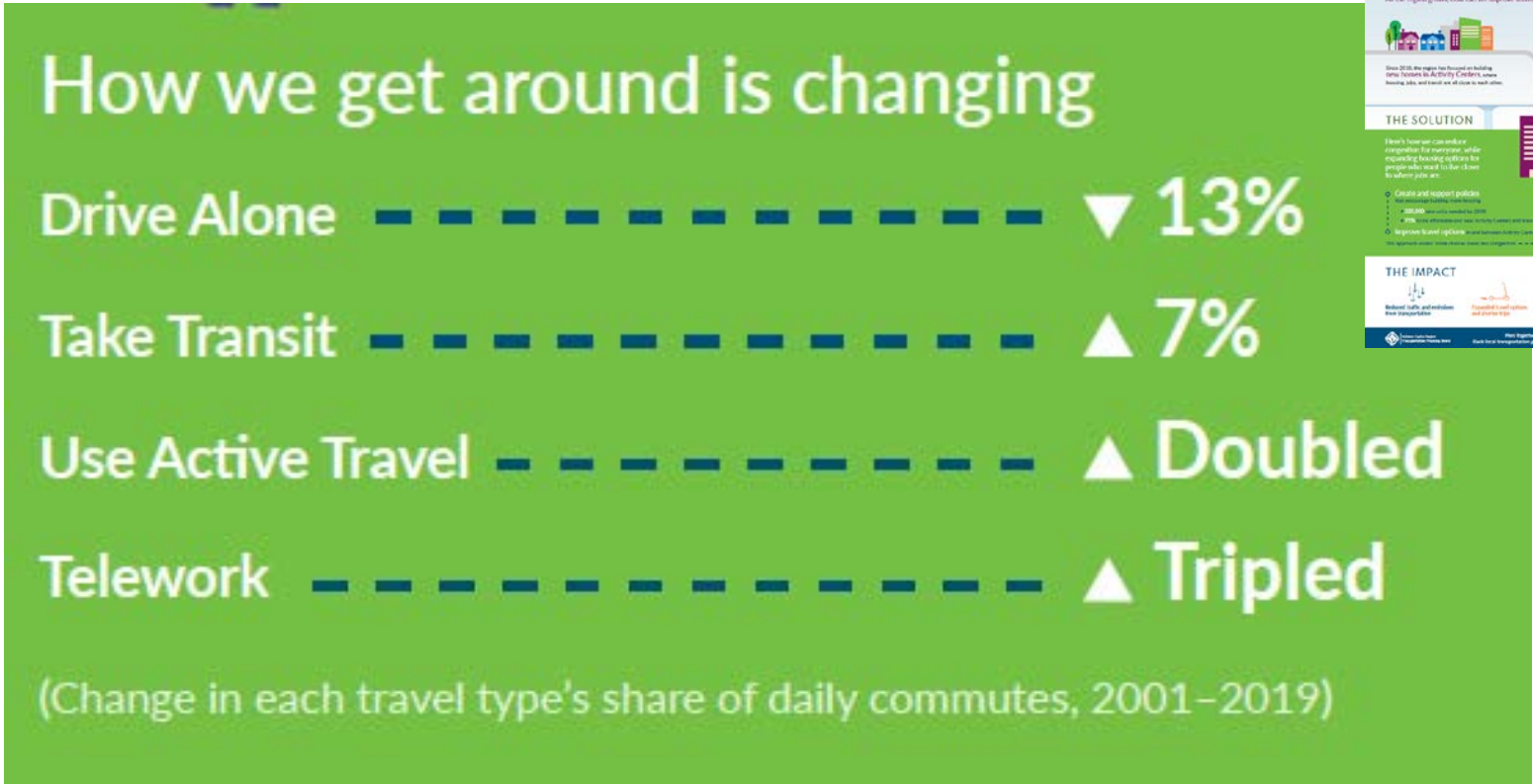
Constrained Element

- Aspirational Initiatives:
- Expressways
 - BRT/Transitways
 - Metro
 - Some Bicycle/Pedestrian Projects

Planning Policy Focus Areas: Universe



Tracking Progress: 2001 - 2019



BRING JOBS AND HOUSING CLOSER TOGETHER visualize 2045

THE CHALLENGE
People want more than houses in their job and neighborhoods. But jobs and housing are often not near each other, leading to longer commutes. A lack of transportation and infrastructure makes our job-homes-to-neighborhoods journey. As the region grows, how can we improve transit for all?

Since 2010, the region has focused on building more homes in Activity Centers, where housing, jobs, and transit are all close to each other.

But activity centers are home to just 20% of the population, leaving 80% of the jobs.

THE SOLUTION
There's more we can do to make transportation for everyone, while providing housing options for people who want to live closer to their jobs and transit.

- Create and support policies that encourage housing and transit
- Improve transit options and services
- Improve transit options and services

How we get around is changing

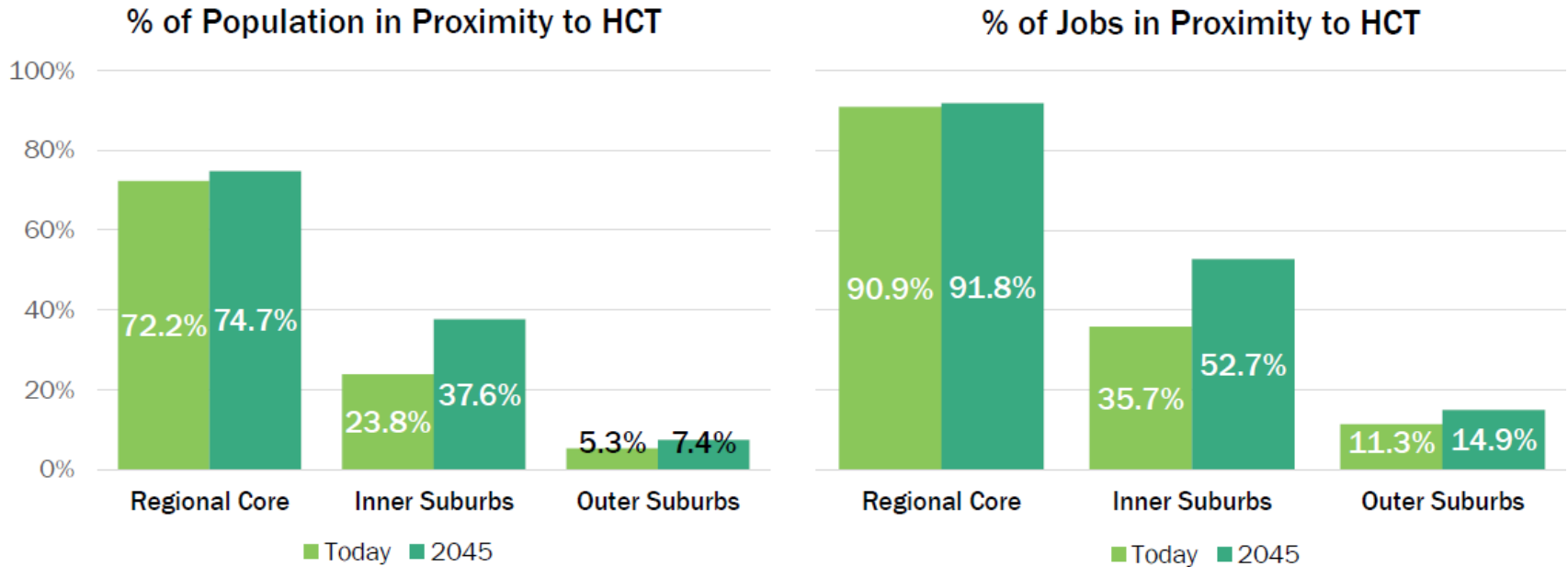
- Drive Alone ▼ 13%
- Take Transit ▲ 7%
- Use Active Travel ▲ Doubled
- Telework ▲ Tripled

THE IMPACT

- Reduce traffic and improve air quality
- Improve transit options and services
- Improve transit options and services
- Improve transit options and services

visualize2045.org

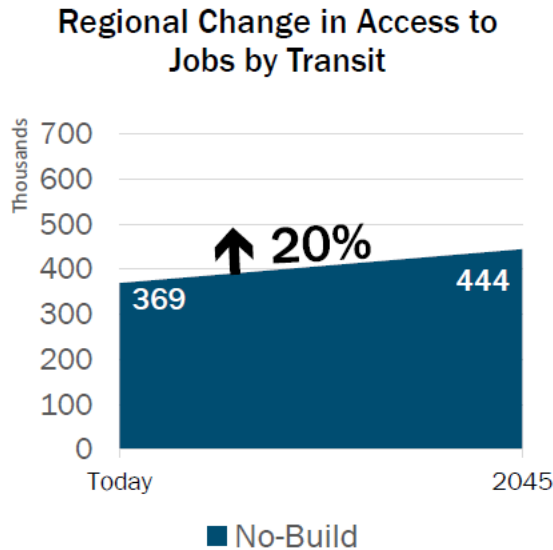
Forecasted Progress



- “Proximity” defined as within one mile of rail or within a ½ mile of bus rapid transit (BRT).
- “High-capacity transit” defined to include Metrorail, commuter rail, streetcar, light rail or BRT.

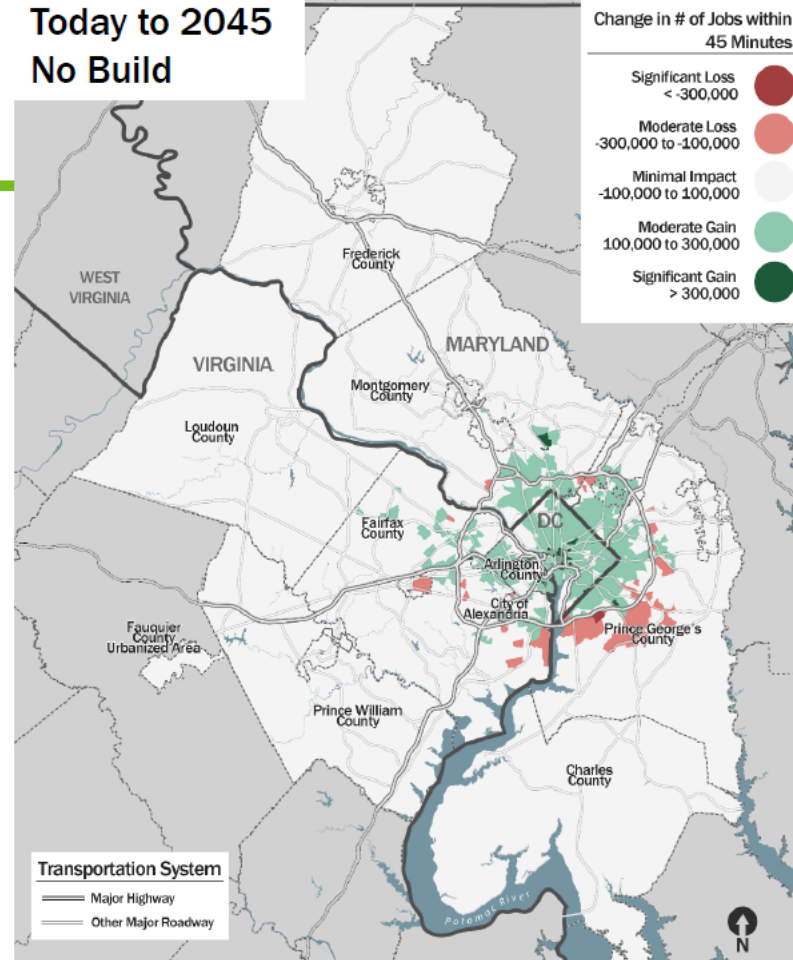
Forecasted Progress – Land Use Impacts

Change in Access to Jobs by Transit



These numbers represent the average number of jobs accessible via transit within a 45-minute commute based on where people live.

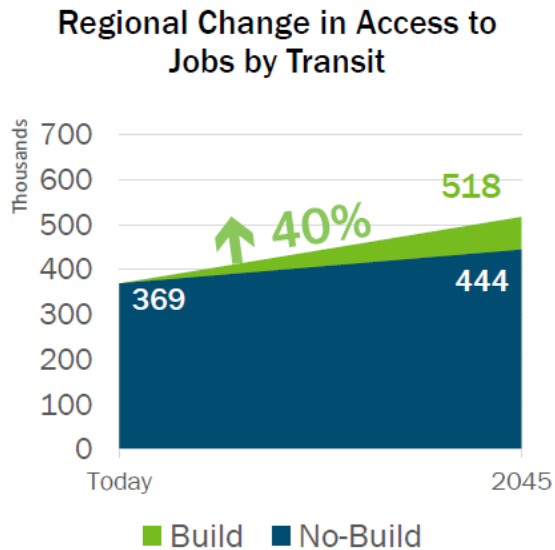
Today to 2045
No Build



Source: Visualize 2045 (2018) Performance Analysis

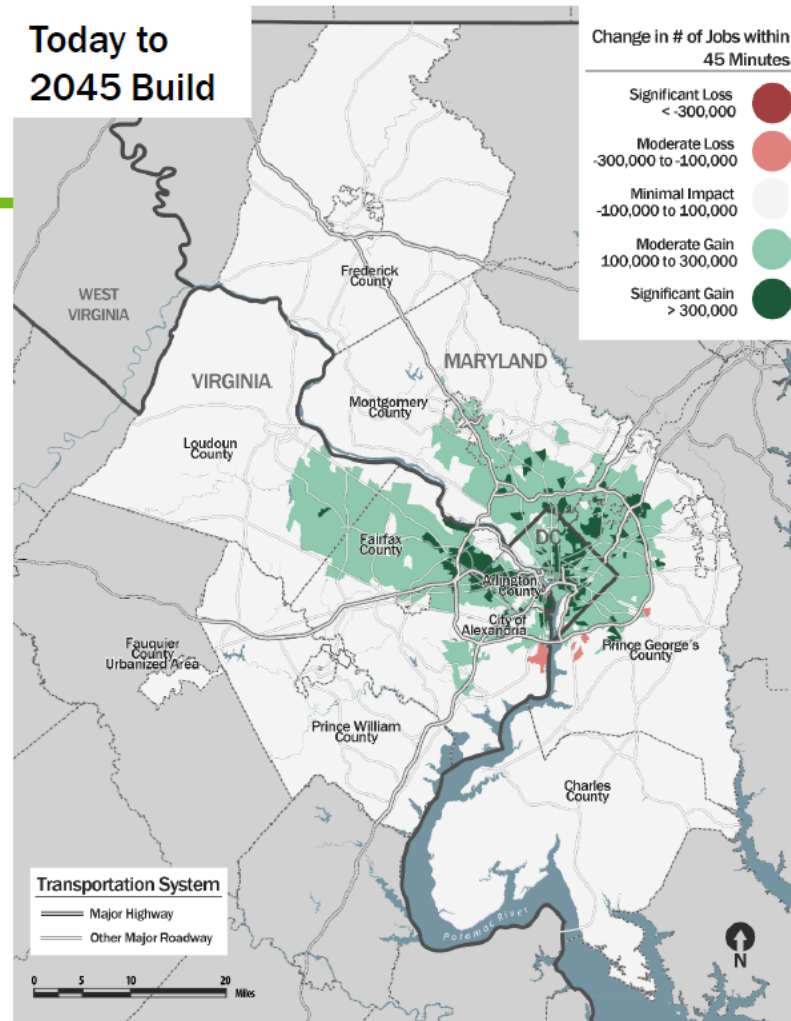
Forecasted Progress – Land Use & Transportation

Change in Access to Jobs by Transit



These numbers represent the average number of jobs accessible via transit within a 45-minute commute based on where people live.

Today to 2045 Build



Source: Visualize 2045 (2018) Performance Analysis

Tracking Progress – a Few Examples



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"/> | | | | | | | | | |
| 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"/> | <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.

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