

VISUALIZE 2050



National Capital Region Transportation Plan

Agenda Item 3

PLAN AND PROGRAM DEVELOPMENT UPDATES

Visualize 2050 & FY 2026-2029 TIP

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TPB Transportation Planner

TPB Technical Committee
October 3, 2025



National Capital Region
Transportation Planning Board

Overview

- Recap of Plan and TIP Development
- What Has Been Approved to Date
- What Has Been Shared
- Final Public Comment Period
- Comment Period Communications



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Recap of Plan and TIP Development Milestones

- June 2021 R19-2021 directed Visualize 2050 be developed with a zero-based budgeting (ZBB) perspective
- February 2023 TPB issued Technical Inputs Solicitation and initiated first comment period
- March 2024 TPB held the second comment period
- May 2024 Regionally Significant for Air Quality (RSAQ) Inputs Approved
- June 2024 TPB requested two sets of conformity analysis (with and without I-495 Southside Express Lanes (SEL) project)
- August 2024 Agencies submitted non-regionally significant (NRS) inputs
- May 2025 Agencies submitted TIP financials
- July 2025 Air quality conformity analysis and multimodal system performance data shared for both options

What has been approved to date

- Land Use and Demographic Forecasts
 - Round 10.0 Cooperative Forecasts on population, employment, and households
 - Transportation Analysis Zones (TAZ)
- Technical Tools and Assumptions
 - Emissions model, vehicle fleet data, travel demand model
- Highway Projects Significant for Air Quality
 - +530 lane miles
- Transit Projects Significant for Air Quality
 - +97 high-capacity transit lane miles

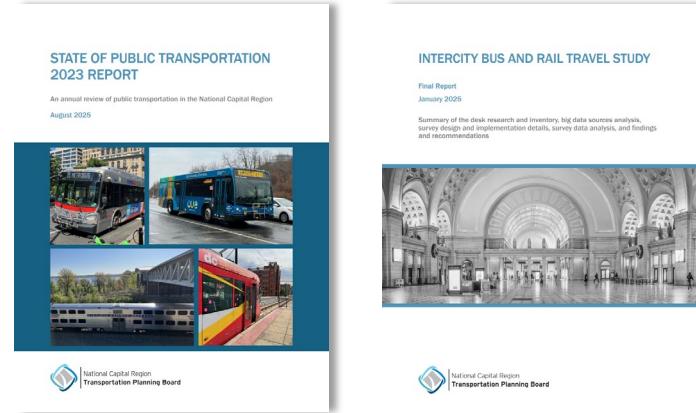
What has been shared

- Modal Planning
 - Public transit, bicycle/pedestrian/micromobility, driving, TDM, freight
- System Performance
 - Safety, congestion, maintenance
- Societal Topics
 - Land use, electric vehicles, environmental consultation/mitigation, air quality, resilience
- Plan-specific activities
 - Financial plan, future system performance
- Other topics

V2050 Topic: Public Transit

Shared with Tech Committee:

- 2023 State of Public Transportation Report (June 2024)
- Intercity Bus and Rail Travel Final Report (February 2025)
- HCT Local Transit Access Study (March 2024)
- 2024 State of Public Transportation (July 2025)



Information in the plan:

- Trends, Ridership, Mode Share
- Access to Transit
- Transit Reliability & Congestion
- Safety & Security
- Transit Asset Management
- Transit, Housing, and Land Use
- Emerging Technologies
- Financial Plan
- Revenues/Expenditures
- Future Transit Projects
- TPB Priority Strategies & Goals
- Ongoing Challenges



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V2050 Topic: Bicycles, Pedestrians, and Micromobility

Shared with Tech Committee:

- Bicycle and Pedestrian Plan for the National Capital Region (2022)
- Bike and Pedestrian Volumes (March 2023)
- National Capital Trail Network map & progress report (February 2024)

Information in the plan:

- Bicycle and Pedestrian Trends
- Current System Performance
- PBPP Safety Targets
- Future Projects
- TPB Priority Strategies
- TPB Goals
- Ongoing Challenges



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Angela n./Flickr

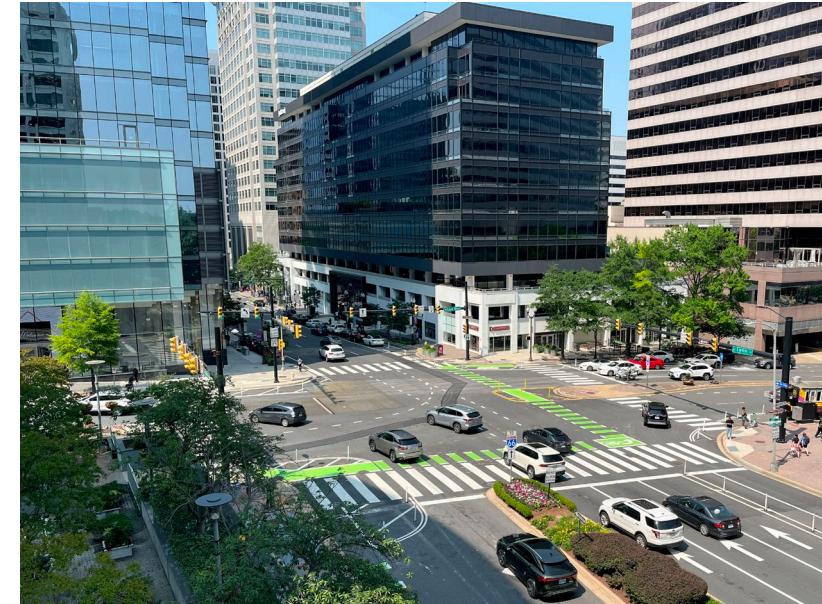
V2050 Topic: Driving and Riding in a Vehicle

Shared with Tech Committee:

- 2022 State of the Commute Report (September 2022)
- Curbside Management Post Forum Final Report (October 2024)
- 2023 Vehicle Registration Data (October 2024)

Information in the plan:

- Trends and Mode Share
- Access
- PBPP Safety Targets
- System Management
- TPB Priority Strategies
- Financial Plan
- Revenues/Expenditures
- Future Roadway Projects
- Ongoing Challenges
- TPB Goals



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V2050 Topic: Travel Demand Management (TDM)

Shared with Tech Committee:

- 2022 State of the Commute Report (September 2022)
- Draft FY25 Commuter Connections Work Program (February 2024)
- Curbside Management Forum Recap (October 2024)
- Draft FY26 Commuter Connections Work Program (March 2025)
- Commuter Incentives: Motivating Travel Behavior Change (February 2025)

Information in the plan:

- Commuter Connections Impact
- TDM Strategies and Trends
- Future TDM Projects and Programs
- TPB Priority Strategy
- TPB Goal



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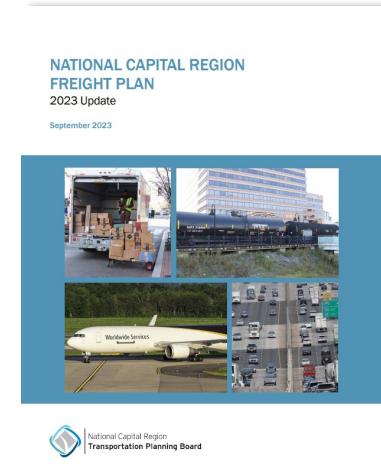
V2050 Topic: Freight Planning

Shared with Tech Committee:

- National Capital Region Freight Plan Update (July/September 2023)

Information in the plan:

- Freight trends
- Truck Travel Time Reliability
- Freight System Management/Truck Parking
- Emerging Technologies in Freight
- Future Freight-Related Projects



Rachel Beyerle/COG

V2050 Topic: Safety

Shared with Tech Committee:

- TPB Roadway Safety Summit Recap and Recommendations (January 2025)
- PBPP Targets for Transit and Highway Safety (February 2025)

Information in the plan:

- Current System Performance
- Annual Regional Highway & Transit Safety Targets
- Ongoing Safety Challenges
- TPB Priority Strategy
- Fundamental Element of the TPB Policy Framework



Emma K Alexandra/Flickr

V2050 Topic: Congestion Management

Shared with Tech Committee:

- Congestion Management Process & Bottlenecks (May 2023)
- Draft 2024 Congestion Management Process Technical Report (December 2024)
- PBPP Update: Highway Asset and Travel Reliability Performance (June 2025)

Information in the plan:

- PBPP Delay and Reliability Targets
- Trends
- Future Projects Targeting Congestion
- Ongoing Challenges
- TPB Goal



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V2050 Topic: Maintenance

Shared with Tech Committee:

- PBPP Highway Asset and Performance Targets (March 2022)
- Highway Asset and System Performance (June 2024)
- PBPP FY25 Regional Transit Asset Management Targets (February 2025)
- PBPP Update: Highway Asset and Travel Reliability Performance (June 2025)

Information in the plan:

- PBPP Highway and Transit Asset Management Targets
- Financial Plan Expenditures
- Future Maintenance and Rehabilitation Projects
- Ongoing Challenges
- TPB Priority Strategy
- TPB Goal



Rachel Beyerle/COG

V2050 Topic: Land Use and Transportation Coordination

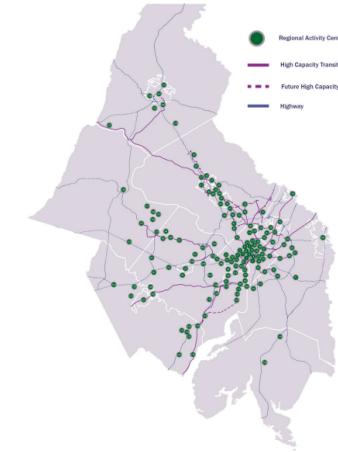
Shared with Tech Committee:

- Round 10.0 Cooperative Forecasts (July 2023)
- Regional Activity Centers Update (April 2025)

Information in the plan:

- Accessibility
- Regional Activity Centers in 2025 and 2050
- Cooperative Forecasts Model Output
- TPB Priority Strategy

Attribute	Round 8.0 RACs	Round 10.0 RACs	Change
Number of RACs	141	145	2.8%
Total Square Miles	324.6	216.8	-33.6%
RAC mean in Square Miles	2.3	1.5	-34.8%
Total Associated TAZs	896	836	-6.7%
Associated TAZs Square Miles	325	270	-16.9%
Mean TAZ Size in Acres	232	207	-10.8%
2050 High Capacity Transit Stations	248	238	-4.0%
RACs with a HCT	99	99	-

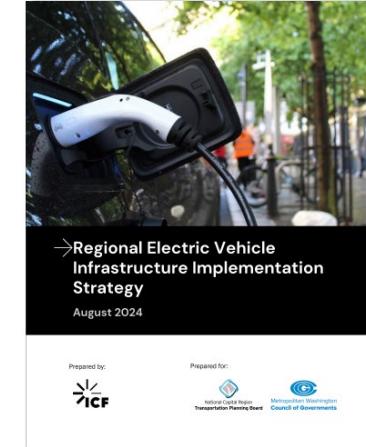


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V2050 Topic: Electric Vehicles

Shared with Tech Committee:

- DDOT, MDOT, VDOT National Electric Vehicle Infrastructure Plan (October 2022)
- Regional EV Infrastructure Implementation (REVII) Strategy Project (September 2024)



Information in the plan:

- EV Trends
- TPB Priority Strategy
- Future EV Projects and Programs



MDOT/Flickr

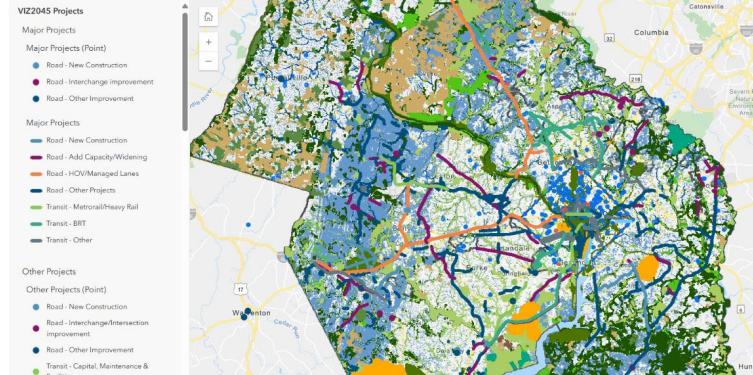
V2050 Topic: Environmental Consultation/Mitigation

Shared with Tech Committee:

- Environmental Consultation and Mitigation Process (March 2025)

Information in the plan:

- Environment as a Societal Topic
- TPB Goal



Chesapeake Bay Program/Flickr

V2050 Topic: Air Quality

Shared with Tech Committee:

- 2023 update to 2008 Ozone Maintenance Plan (April 2023)
- MDOT, VDOT, DDOT Carbon Reduction Strategy (October 2023)
- Implementation Considerations for On-Road GHG Reduction Strategies (October 2024)
- EPA Clean Data Determination and Demonstration of Attainment (May 2025)
- Air Quality Conformity Analysis Update (July 2025)



COG stock

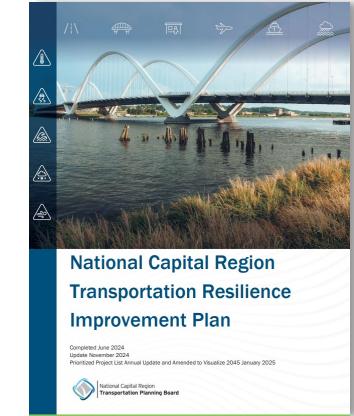
Information in the plan:

- Congestion Mitigation and Air Quality (CMAQ) VOC and NO_x Targets
- Compliance with Air Quality Standards

V2050 Topic: Resilience

Shared with Tech Committee:

- Transportation Resilience Improvement Plan (TRIP) (May 2024)
- TRIP Project List Update (January 2025)
- Integrating Updated Flooding Data Into Risk Assessment (June 2025)



Information in the plan:

- Natural Hazards Impact on Transportation
- Projections of Extreme Weather Conditions by 2050
- Supportive Projects in the Financial Plan
- TPB Goal



Chesapeake Bay Program

V2050 Topic: Financial Plan

Shared with Tech Committee:

- Financial Inputs for the FY2026-2029 TIP (March 2025)
- Financial Analysis (September 2025)
- Visualize 2050: NRS Inputs and PIT 2.0 Database (September 2024)
- Zero-Based Budgeting Updates (June 2025)

Information in the plan:

- Anticipated Revenues by Funding Source
- Detailed Revenues by Funding Source
- Planned Expenditures through 2050 by Type and Mode
- Expenditure Details on Projects and Programs
- Project Highlights
- Project List



Elvert Barnes/Flickr



Pierre Gaunaud/COG

V2050 Topic: Future System Performance

Shared with Tech Committee:

- Future System Performance (July 2025)

Information in the plan:

- Today's Access to Jobs
- Today's Reliability, Congestion, and Delay
- Today's RACs & HCT Stations
- Today's Daily VMT per Capita
- Today's Mode Share
- 2050 Access to Jobs
- 2050 Reliability, Congestion, and Delay
- 2050 RACs & HCT Stations
- 2050 Daily VMT per Capita
- 2050 Mode Share



BeyondDC/Flickr

Other Visualize 2050 Topics

Emerging Technologies

- Transportation Technology Inventory Survey (January 2025)

Coordinated Human Services

- Coordinated Human Services Transportation Plan (May 2023)

Surface Connections to Air

- 2023 Washington-Baltimore Regional Air Passenger Survey (June 2024)
- Airport Ground Access Travel Time Study (March 2024)

Public Engagement and Communications

- Comment Period #1 Findings (October 2023)
- Comment Period #2 Findings (April 2024)

And others...

All topics will be summarized separate from the plan in the Visualize 2050 Planning and Programming Process documentation.

Next Steps

October 2025	<ul style="list-style-type: none">• 10/15 TPB votes to move forward with or without the I-495 Southside Express Lanes project for continuation in the plan development and air quality conformity processes.• Staff finalizes the draft Visualize 2050 plan, TIP, and AQC documents, website, reflecting TPB's action• 10/23 Staff releases above draft documents and advertises a 30-day public comment period.
November 2025	<ul style="list-style-type: none">• 11/19 TPB briefed on all aspects of Visualize 2025 and the FY 2026-2029 TIP and comments received with responses, to date.• 11/21 Public comment period closes.
December 2025	<ul style="list-style-type: none">• 12/17 TPB updated on additional comments and responses and act to: approve the results of the AQC analysis and adopt the Visualize 2050 plan and the FY 2026-2029 TIP.

Final Public Comment Period

Scheduled for October 23 to November 21. Comments will be accepted on:

- Draft Visualize 2050: National Capital Region Transportation Plan
- Draft Fiscal Year (FY) 2026-2029 Transportation Improvement Program (TIP)
- Draft Air Quality Conformity Analysis Report of Visualize 2050

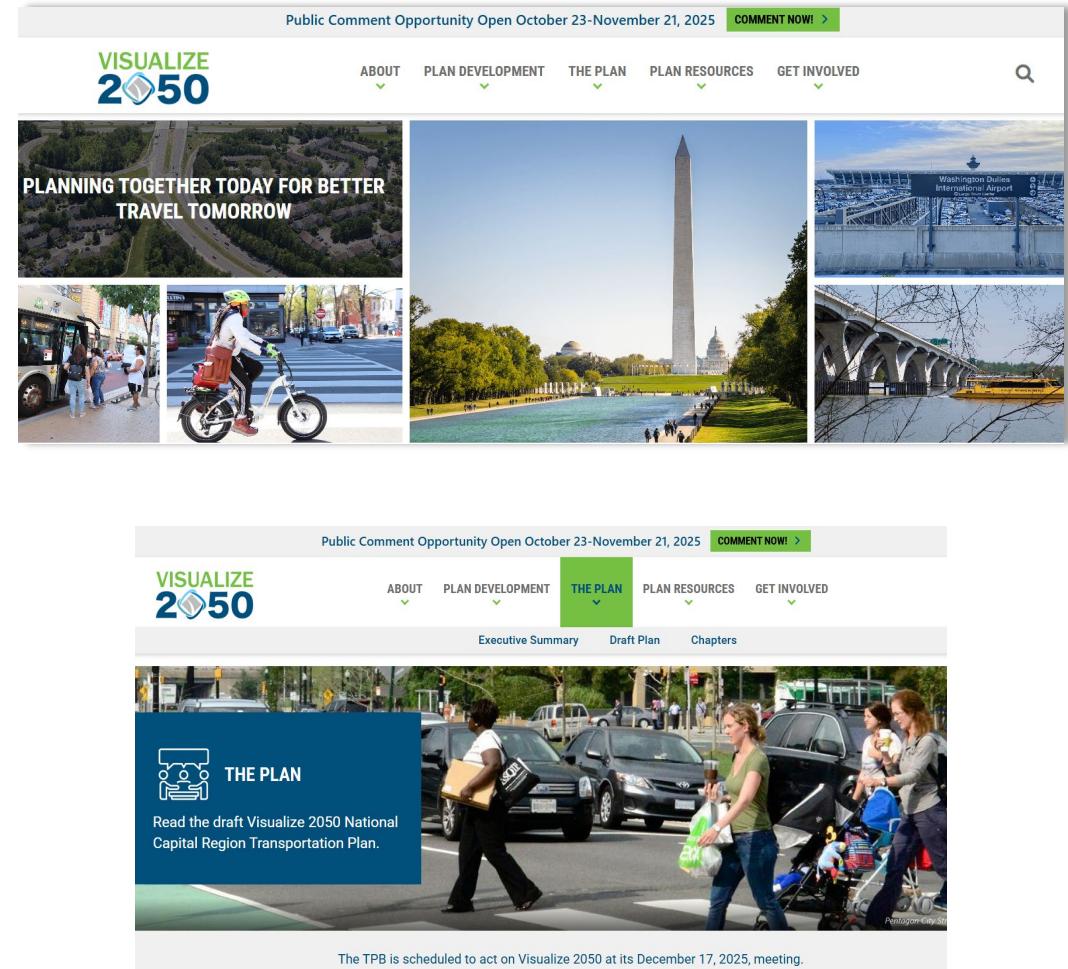
Promise to the public: Convey their comments to the elected and appointed officials and the involved agencies.

Develop Response to Comments

- Short window of time
- Using comment categorization software and consulting support
- TPB will develop a draft list of comment responses
- Will ask for agency responses to any project-specific comments
- Interim report to the TPB on November 19
- Final report prior to TPB vote on December 17

Visualize 2050 Website

- Visualize2050.org: The hub for plan information and public comment
- Key pages during comment period: **Home, The Plan, Plan Resources & Get Involved**
- Screenshots show how the website will transition for the comment period
- Documents available as flipbooks or PDFs
- Interactive map gallery



Public Comment Period Communications

- Visualize2050.org Get Involved page
- Comment form link and instructions
- Ambassador Toolkit
A guide to the comment period, how to share in newsletters and on social media
- Follow TPB (@NatCapRegTPB or @NatCapRegionTPB) on Facebook, Instagram, Bluesky, and X/Twitter
- Online form at visualize2050.org
Email: tpbcomment@mwcog.org
Call: (202) 962-3774
Mail: TPB Chair, 777 N. Capitol Street NE, Suite 300 Washington, DC 20002



#Visualize2050

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Agenda Item 3: Visualize 2050 Plan and Program Development Updates
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