



# I-495 Southside Transit/TDM Study

Fairfax County Transportation  
Committee

January 31, 2023







# Study Context and Purpose

Initiated by DRPT to inform the VDOT I-495 Southside Express Lanes Study

Identify a range of current and future multimodal solutions that can be implemented to:



Reduce congestion



Improve trip reliability and regional connections

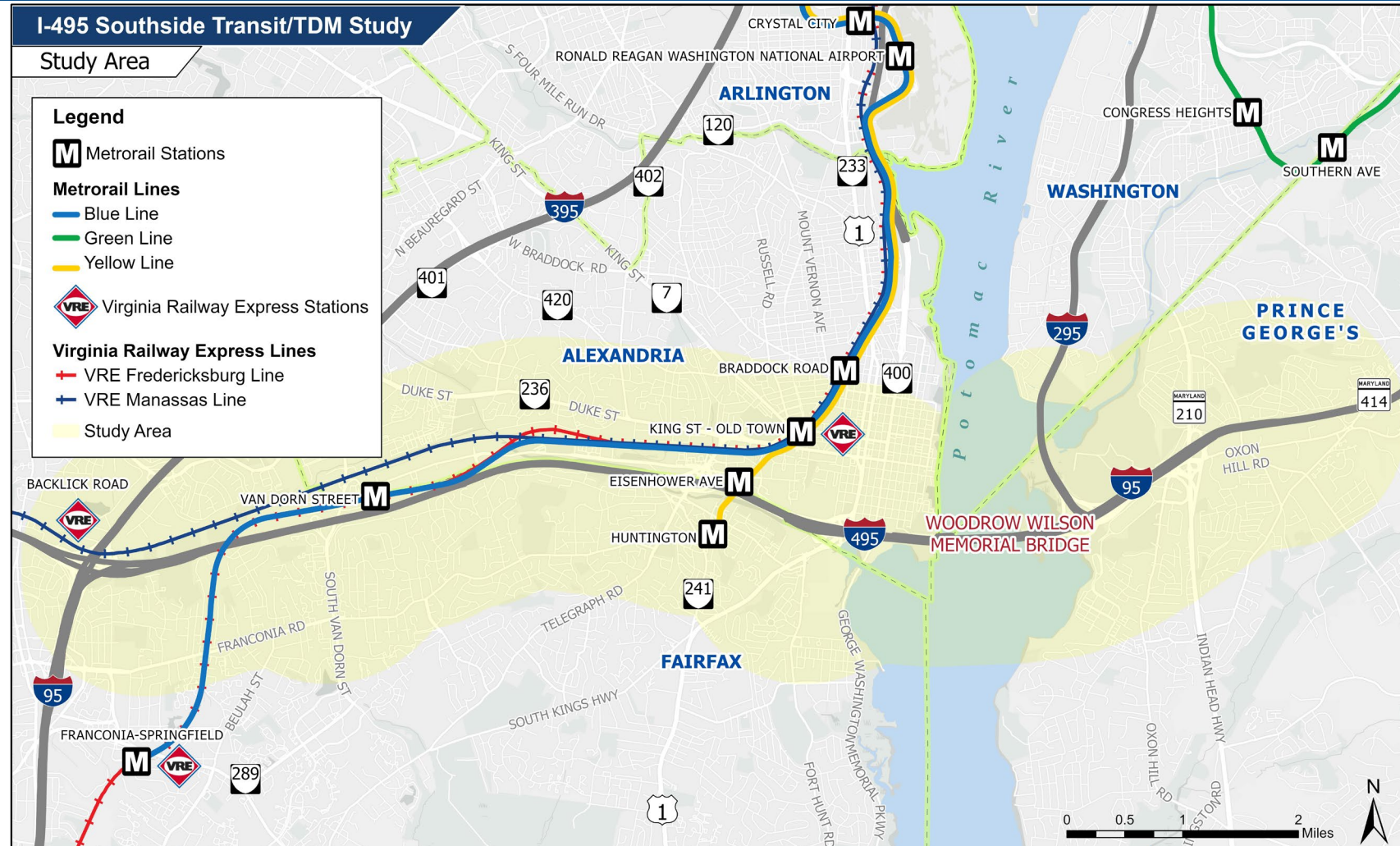


Enhance existing and planned multimodal mobility and connectivity



# Study Area

- Same as study area for VDOT Southside Express Lanes Study
- 11 miles of the southern section of I-95/I-495 (Capital Beltway)
- Springfield interchange (I-95/I-395/I-495) in Fairfax County, VA to MD 210 interchange in Prince George's County, MD



# Who is Involved? Study Stakeholders Include...



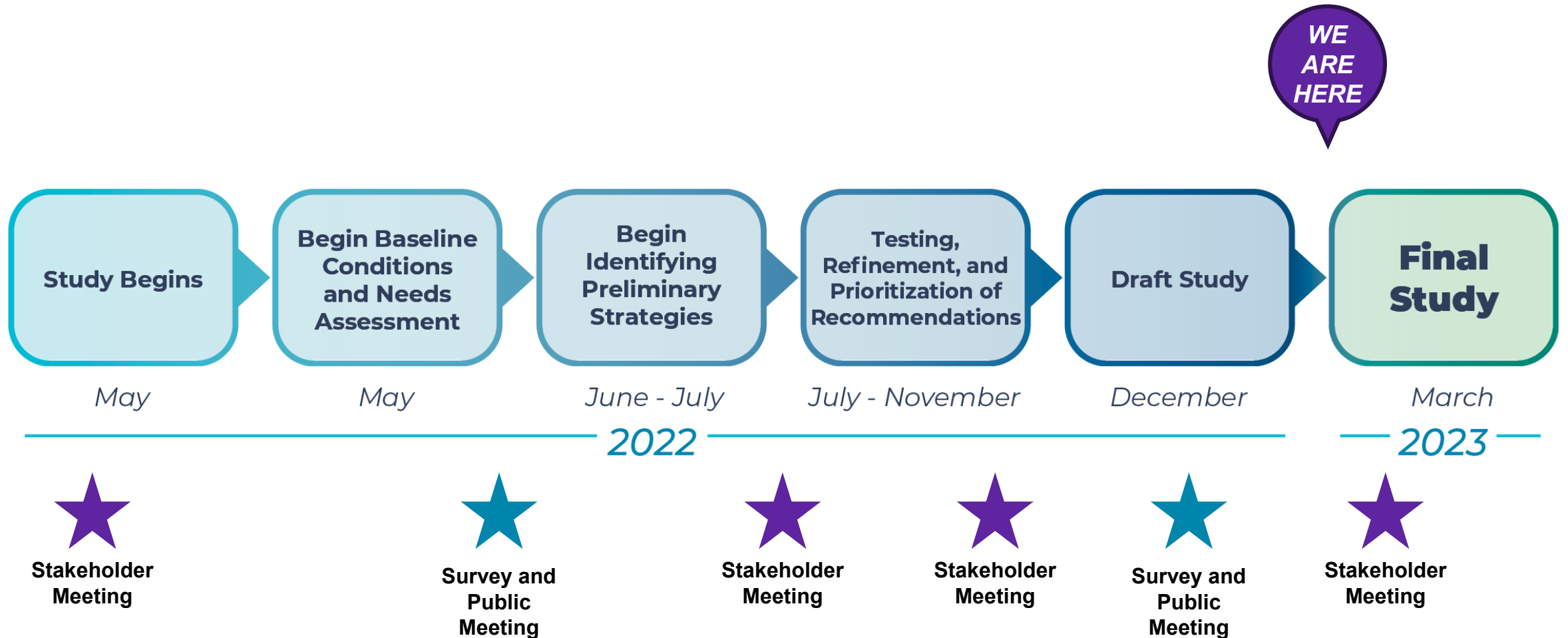


# Engagement Process

- Four Stakeholder/TAC Meetings
  - May 25, 2022
  - August 2, 2022
  - October 10, 2022
  - February 9, 2023 (scheduled)
- Virtual Public Information Meetings
  - July 19, 2022
  - December 13, 2022
- Six Pop-Up Events in Springfield, Alexandria, and Oxon Hill in July and December 2022
- Surveys
  - Survey 1: Existing travel patterns and corridor needs
  - Survey 2: Draft recommendations
- **Public Comment Period for Draft Summary Report: January 20 – February 22, 2023**



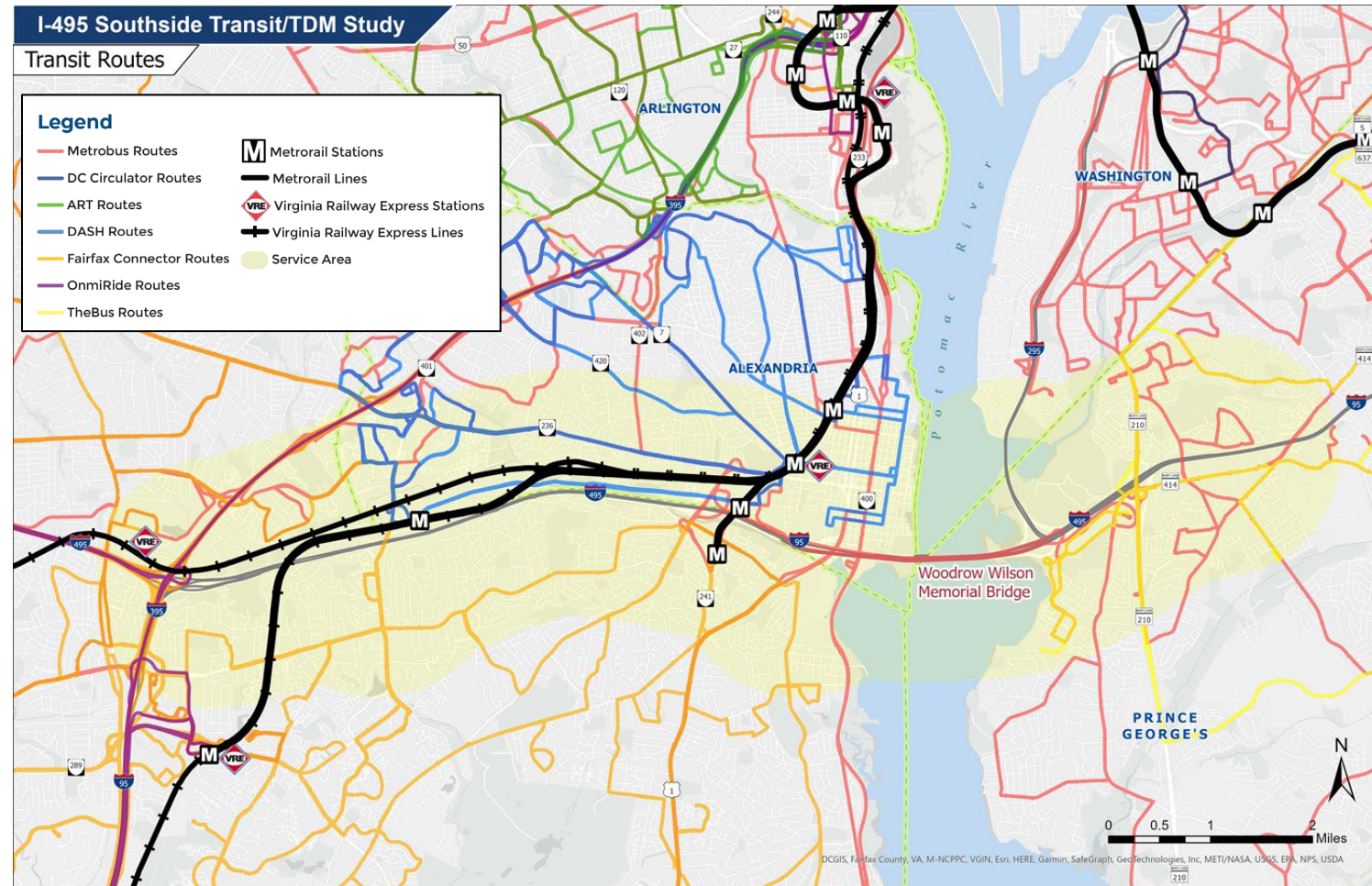
# Study Process and Schedule





# Baseline Conditions—Existing Service

- Limited bus service along I-495 or over Woodrow Wilson Bridge
- Parallel and Metrorail feeder bus service in Alexandria and Fairfax County
- Bus service in Prince George's County in the vicinity of National Harbor with Metrorail connections
- Virginia Railway Express (VRE), Metrorail, and Amtrak parallel to corridor in Virginia
- Virginia, Maryland, Regional, and Local Commuter Assistance Programs



# Needs Summary



**Provide and Promote Convenient and Flexible Travel Choices for All**



**Reduce Congestion and Improve Trip Reliability**



**Improve Safety**



**Accommodate Future Regional Growth**

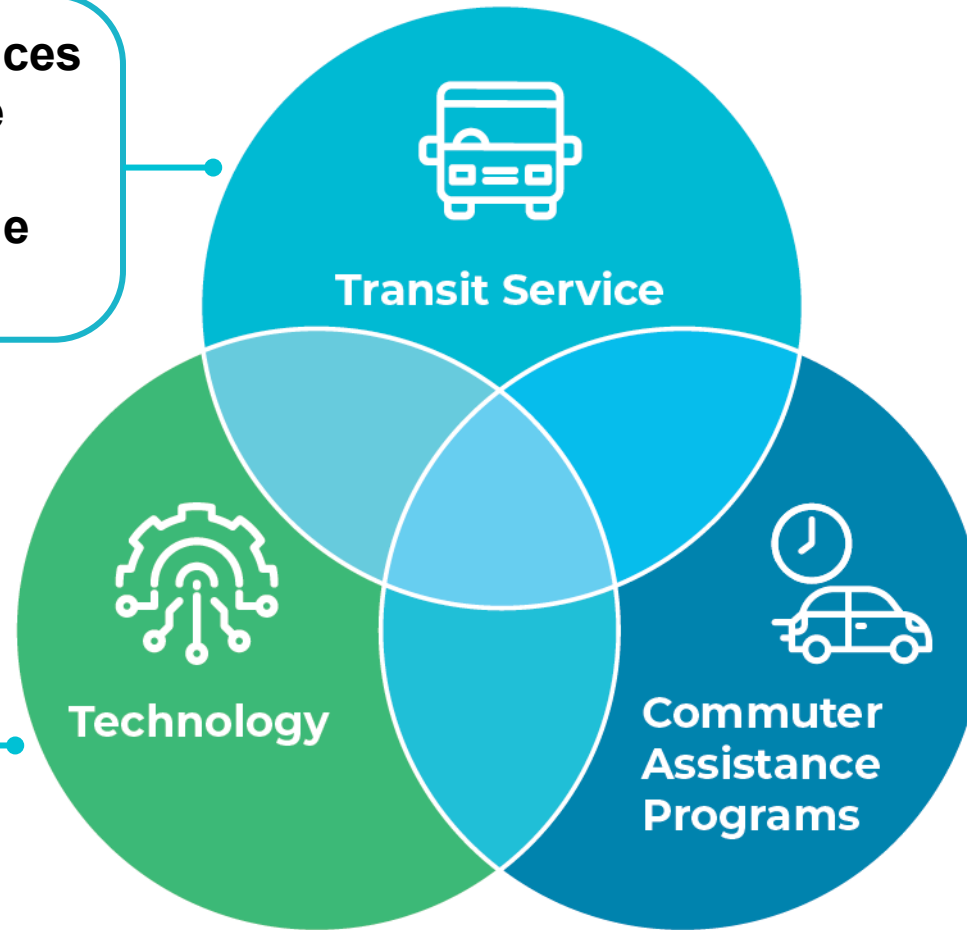


**Provide Consistency with Local and Regional Plans**



# Study Recommendations

**New or enhanced transit services that could benefit from the reliability of an expanded express lanes network in the I-495 Southside corridor**



**Technology to encourage use of transit and alternative transportation modes, support a modern travel experience, and assist with travel decision-making**

**Programs to encourage use of alternative transportation modes besides single-occupancy vehicles (SOV)**

# Developing Investment Packages

Recommendations were grouped into investment packages that represent potential timeframes for implementation:

- **Near-Term:** Present through the construction phase of the potential I-495 Southside express lanes (prior to 2030)
- **Mid-Term:** In conjunction with the opening of the potential express lanes in 2030 to 2045
- **Long-Term:** Following opening of the potential express lanes in years beyond 2045



# Transit Recommendations



## Potential transit modes:

- **Express bus** for services that would operate all-day with fewer stops
- **Commuter bus** for services that would operate during peak commuting times with fewer stops
- **Local bus** for services that would operate all-day with more stops

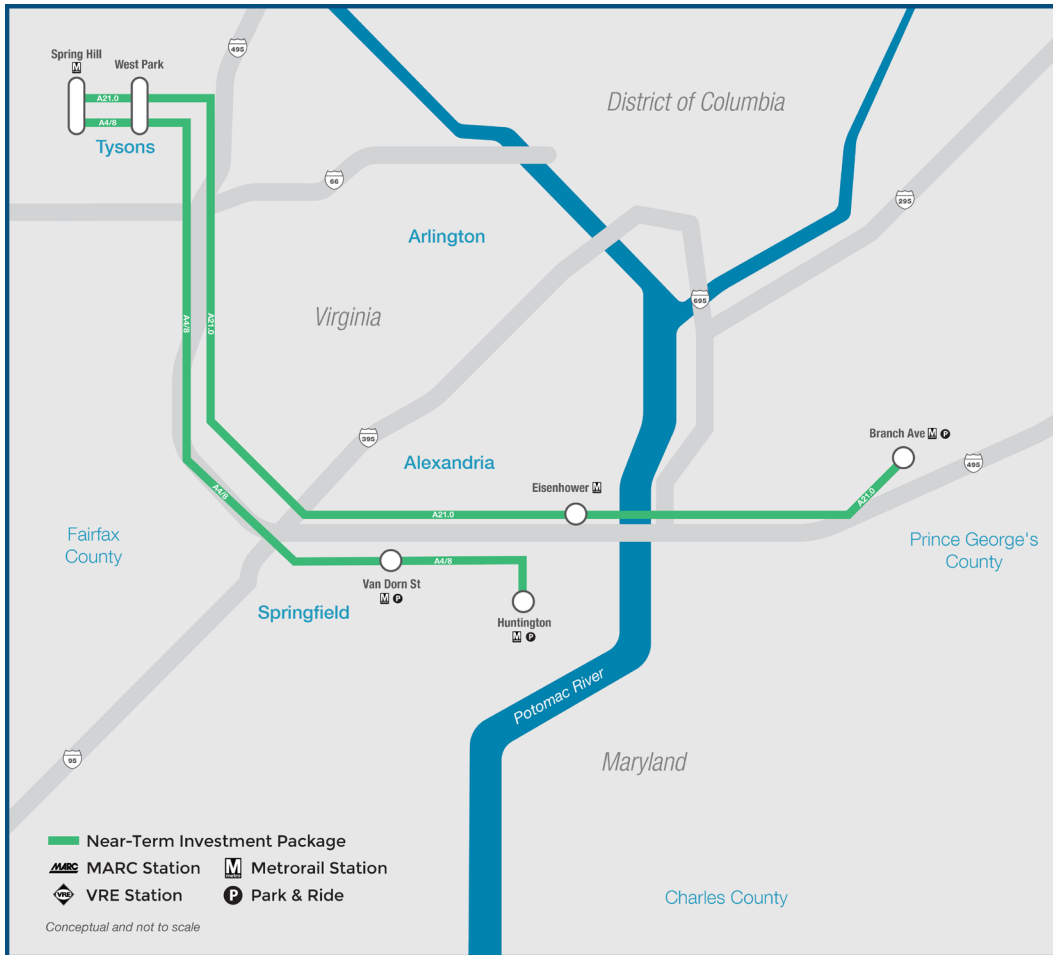
**Rail** was considered and tested as an option but would not be as cost-effective compared to bus options for moving a similar number of people in the corridor. Improvements in the I-495 Southside corridor should not preclude future rail.



*Image Credits: WMATA, VDOT, OmniRide, Fairfax Connector*

**Transit options that would operate throughout the day in both rush (peak) and non-rush (off-peak) times were prioritized**

# Near-Term Package (prior to 2030)



## Transit Service

A4/8 - Alexandria to Tysons

A21.0 - Central-West Prince George's County to Tysons (via Eisenhower)



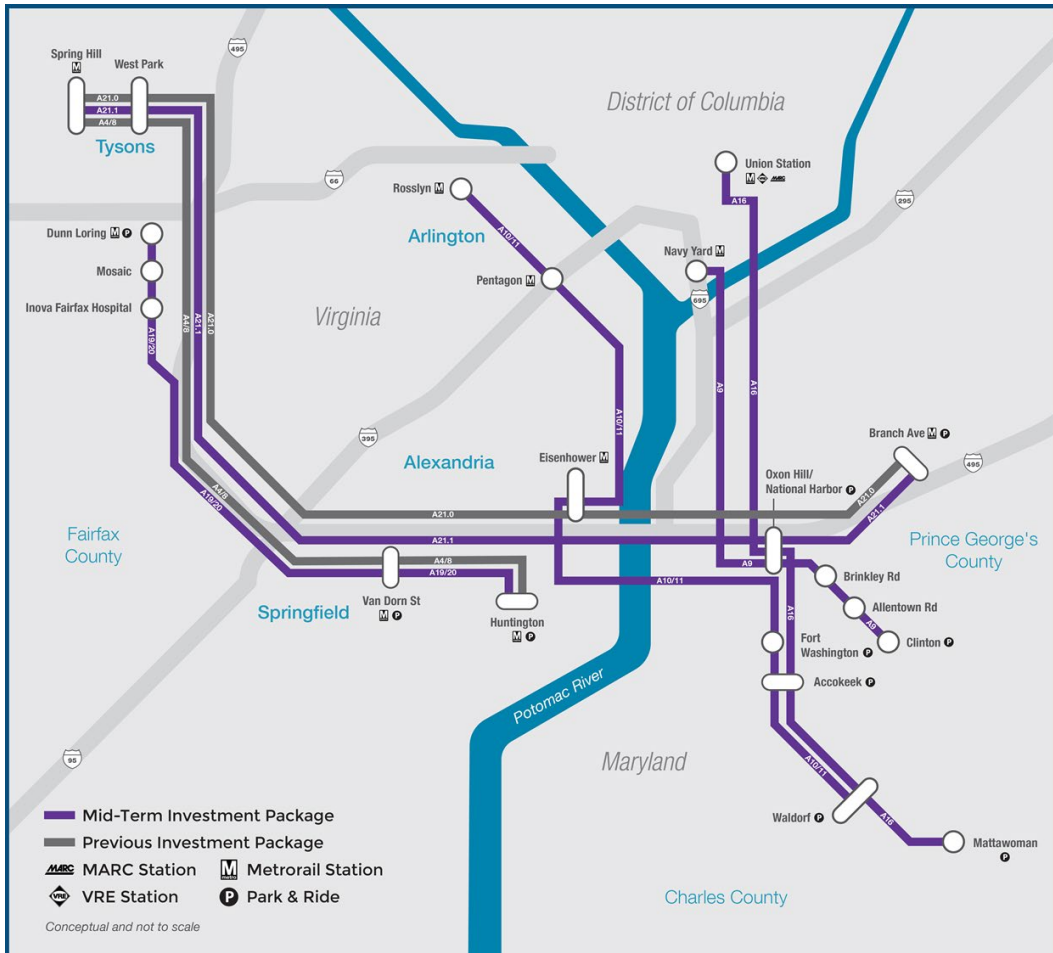
## Commuter Assistance Programs



## Technology



# Mid-Term Package (2030-2045)



## Transit Service

A9 - Southwest Prince George's County to Capitol Riverfront

A10/11 - North Charles and Southwest Prince George's Counties to Rosslyn

A16 - North Charles County to NoMa

A19/20 - Southeast Fairfax County and Alexandria to Dunn Loring-Merrifield

A21.1 - Central-West Prince George's County to Tysons (via Oxon Hill)

Metrobus NH1 and NH2 – More frequent buses

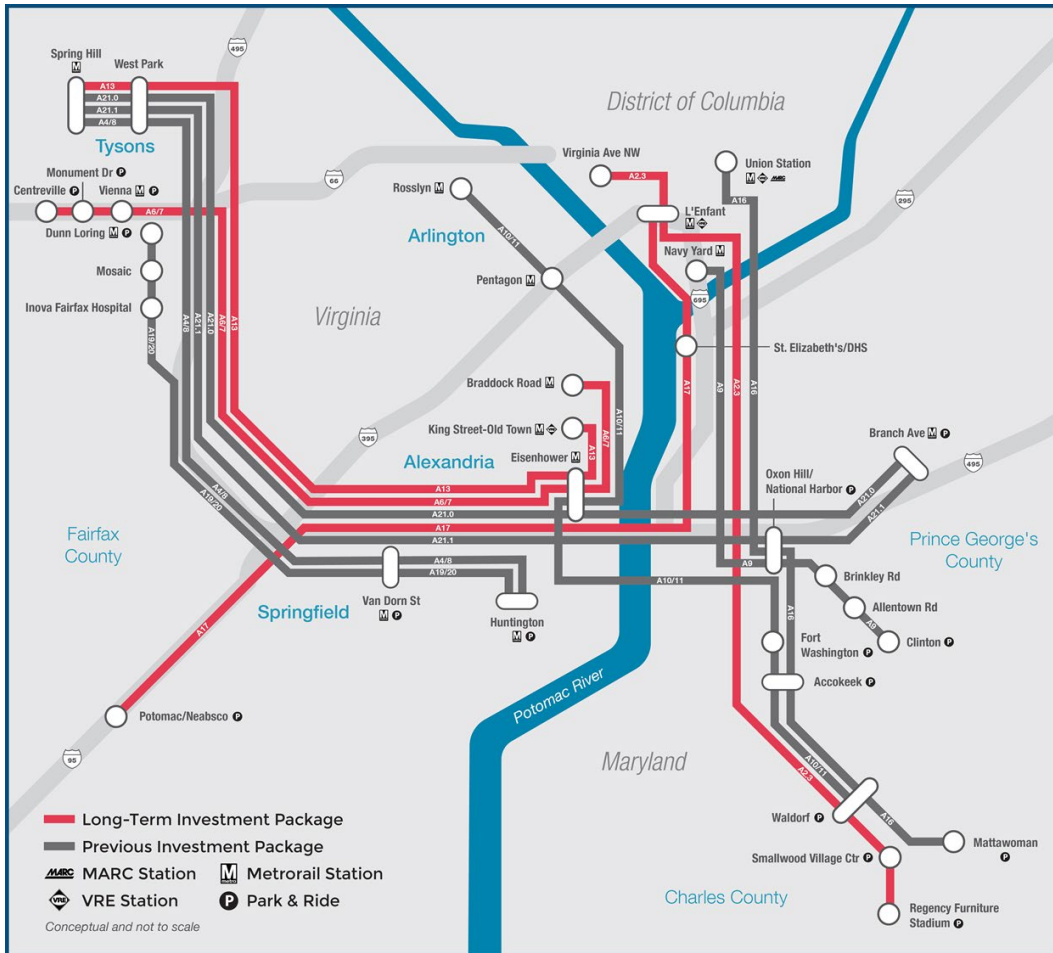


## Commuter Assistance Programs



## Technology

# Long-Term Package (beyond 2045)



## Transit Service

A2.3 - North Charles County to DC Core

A6/7 - Central-West Fairfax County to Carlyle-Eisenhower East and Braddock Road Metro

A13 - Northwest Fairfax County to Carlyle-Eisenhower East

A17 - East Prince William County to Southwest Waterfront



## Commuter Assistance Programs



## Technology



# Commuter Assistance Program Recommendations



Commuter Assistance Programs			
	Near-Term	Mid-Term	Long-Term
Corridor-Specific Mobility Options Marketing Campaign			
Targeted Residential Outreach			
Targeted Employer Outreach			
Carpool Promotion Programs			
Vanpool Formation and Expansion Program			

# Technology Recommendations

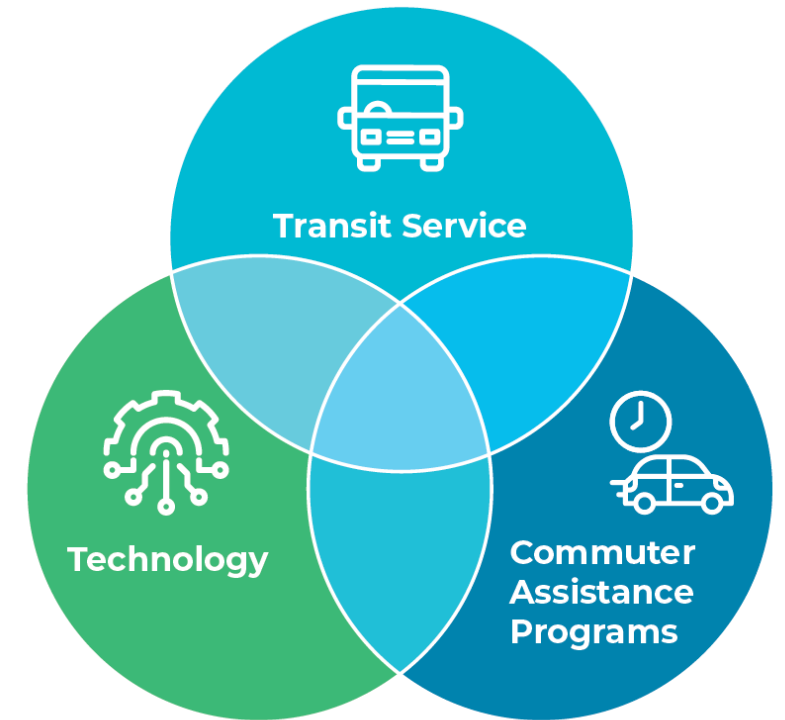


Technology Recommendations			
	Near-Term	Mid-Term	Long-Term
Transit Priority Technology		<div><div></div></div>	<div><div></div></div>
Real-Time Travel and Transit Information	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Real-Time Passenger Load Information		<div><div></div></div>	<div><div></div></div>
Commuter Parking Information System	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Transit Payment Integration and Incentivization		<div><div></div></div>	<div><div></div></div>
Zero-Emission Bus Charging Infrastructure		<div><div></div></div>	<div><div></div></div>
Automated, Connected, and Shared Mobility			<div><div></div></div>



# Advancing the Study

- Continue input to the VDOT Study
- Identify potential funding sources
- Determine specific operator and facility needs
- Transit service planning for implementation
- Coordinate with stakeholders and transit providers regarding connections and local service modifications
- Coordinate between states, localities, transit operators and regional organizations on implementation of commuter assistance programs and technology enhancements



# Questions / Comments

- DRPT will accept written public comments on the I-495 Southside Transit & TDM Study until 5:00 p.m. (EST) on Wednesday, February 22, 2023
- Draft Summary Report available on project web site at:
  - <https://drpt.virginia.gov/work-were-doing/i-495-southside-capital-beltway-transit-and-transportation-demand-management-study/>
- Comments may be submitted:
  - Via e-mail to [drptpr@drpt.virginia.gov](mailto:drptpr@drpt.virginia.gov) or
  - In writing to Todd Horsley, Director of Northern Virginia Transit Programs, Virginia Department of Rail and Public Transportation, 1725 Duke Street, Suite 675, Alexandria, VA 22314



# I-495 Southside Transit/TDM Study

Fairfax County Transportation  
Committee

January 31, 2023

