



**OMNIRIDE**

GET THERE SMARTER

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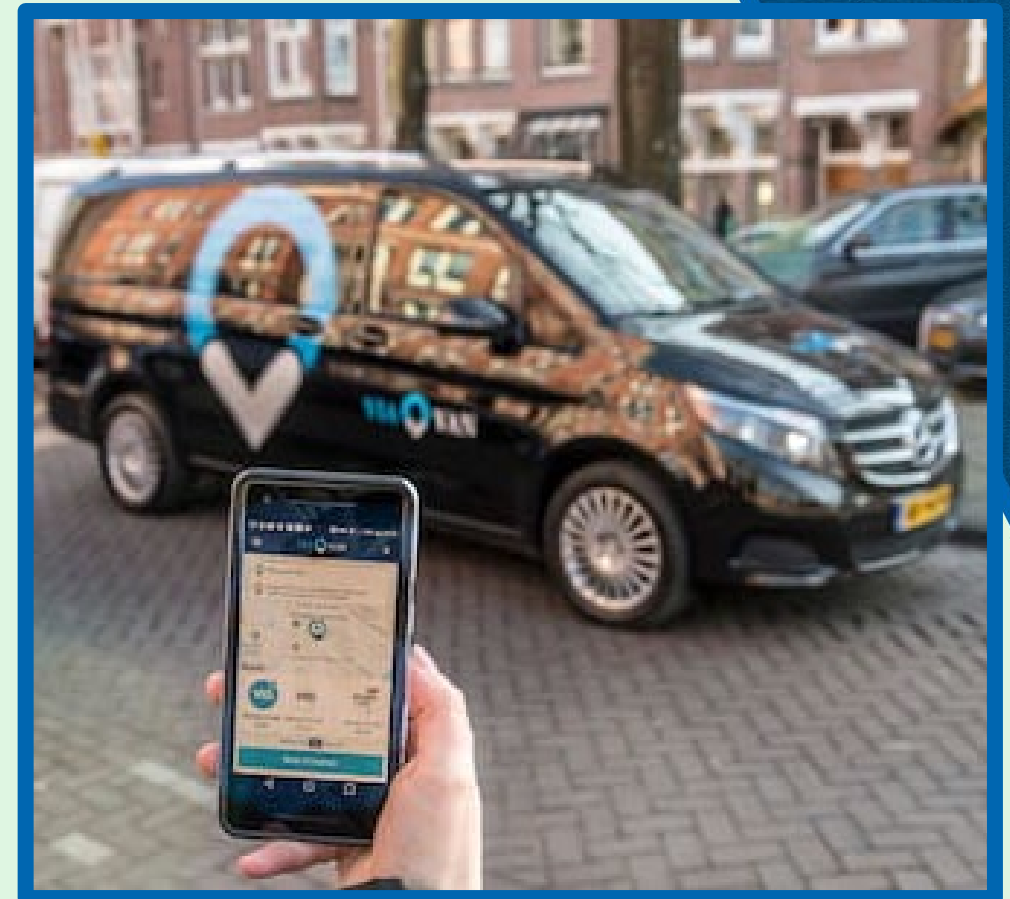
➤ **OmniRide Update March 2023**

# What is Microtransit?

- A service model that sits between traditional fixed-route transit and taxi's
- Technology enables flexibly created routes and on-demand scheduling
- Ad-hoc pickup and drop-off points, within a few minutes walk of multiple customers
- Generally limited service zones
- Vehicles variety
- Vendors include Transloc, DemandTrans, Via, Transdev, RideCo



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# Advantages

- Fills gaps and extends reach of transit – serving locations or times of day with lower demand
- Complements fixed route transit by providing first/last mile service
- Addresses jurisdictional equity, connects more communities to the regional network
- Improves customer experience; introduces new riders to transit
- Data represents user needs - can adjust service to better meet demand





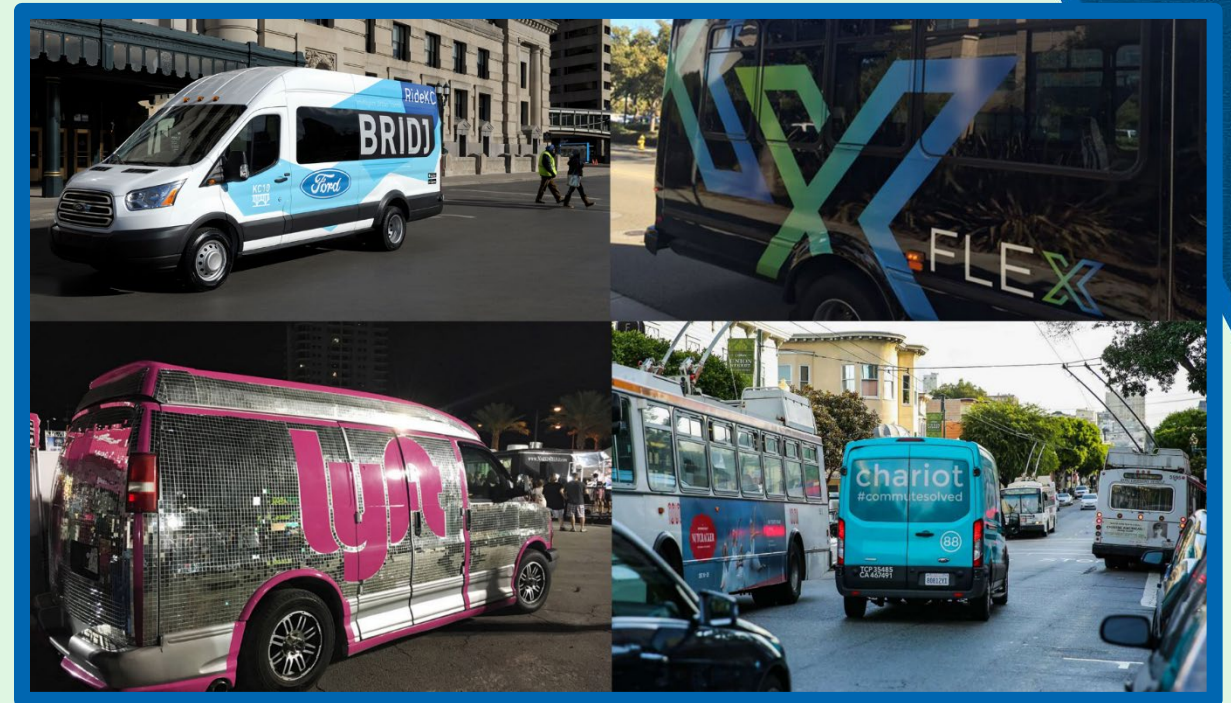
# Proposed Solution

## Microtransit / On-demand Transit



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- Service Enhancement
- Better headways
- Efficiency
- Improved perception of right size vehicle for service. Initially paratransit vehicle, later cutaway
- Allows greater frequency



# Corner-to-Corner Service



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Transportation service that directs passengers to a nearby pickup point and drops them off at a point close to their destination.

Vehicles are routed using a proprietary algorithm that determines the most efficient path to the requested pickup and drop off locations, with the ability to optimize for multiple parameters (eg. Traffic, new passengers, construction).







# OMNIRIDE CONNECT

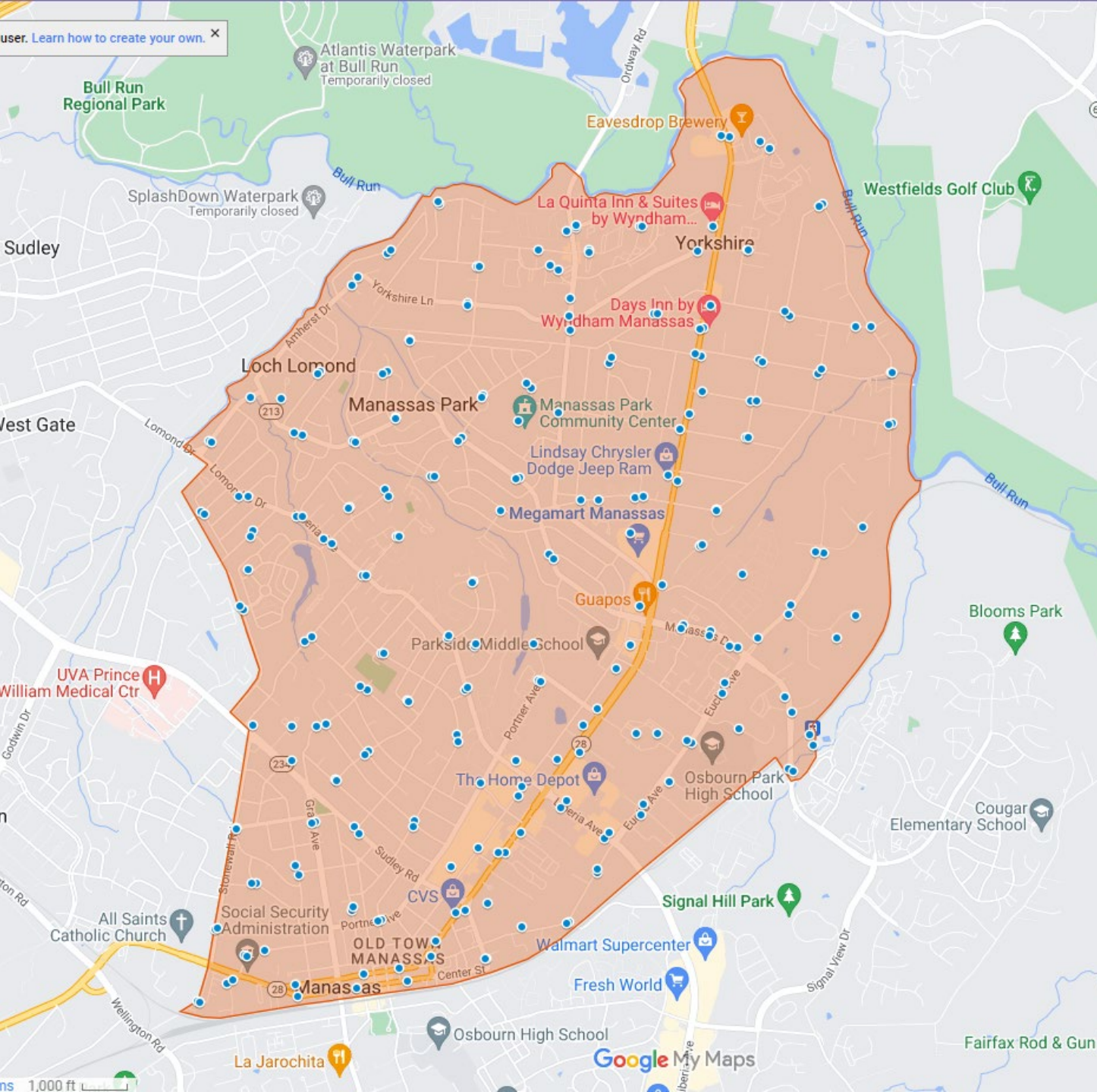


# What is



- Began operation in December 2022 replacing under-utilized Route 68
- On-demand rideshare service, offering trips within a defined service area
- Allows passengers to request trips on demand, rather than hours or days beforehand
- Short local trips and uses small vehicles
- Safe, reliable and convenient option to connect to OmniRide Local bus routes
- Allows for Electronic Payment
- Provides for the ability for users to manage personal information, payment method, ride history, request rides and provide feedback on the service
- Provides real-time information related to vehicle location before and during the trip





# Manassas Park Microtransit Zone

- This map depicts all approved microtransit stops within the polygon
- All stops are within  $\frac{1}{4}$  mile walking distance from each other





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# Scheduling a Trip

## BOOK ON THE APP

- Download OmniRide Mobility App to Smart Phone or Tablet

## BOOK ON A WEB BROWSER

- <https://book.omniride.rideco.com/login>

## BOOK WITH A PERSON

- Call Customer Service Agents, Monday through Sunday, 8:30 am – 4:30 pm



**OmniRide Mobility**

RideCo Inc

Uninstall

Open

# Available Space Types

- Our Braun Minivans can handle:
- 6 ambulatory
- 4 ambulatory, 1 wheelchair
- 3 ambulatory, 2 wheelchair
- 2 bikes per bike rack
  - 2 out of 4 vans have bike racks

How many riders?

General	–	1	+
Passenger or large object			
General with Bike	–	0	+
Passenger seat plus a bike rack			
Accessible	–	0	+
Wheelchair or scooter			
Accessible Companion	–	0	+
Accessible passenger companion			
Accessible PCA	–	0	+
Trained personal care attendant			
Passenger + Service Animal	–	0	+
Passenger with guide dog or miniature horse			
Passenger + Mobility Aid	–	0	+
Passenger with life support equipment or mobility device			

CANCEL OK



# Benefits of Using App

## Real-time walking directions

- The app is designed to direct you to walk to the correct side of the street to be picked up.

## Live vehicle tracking

- See where the van is on the map when operator is on their way to pick up passenger

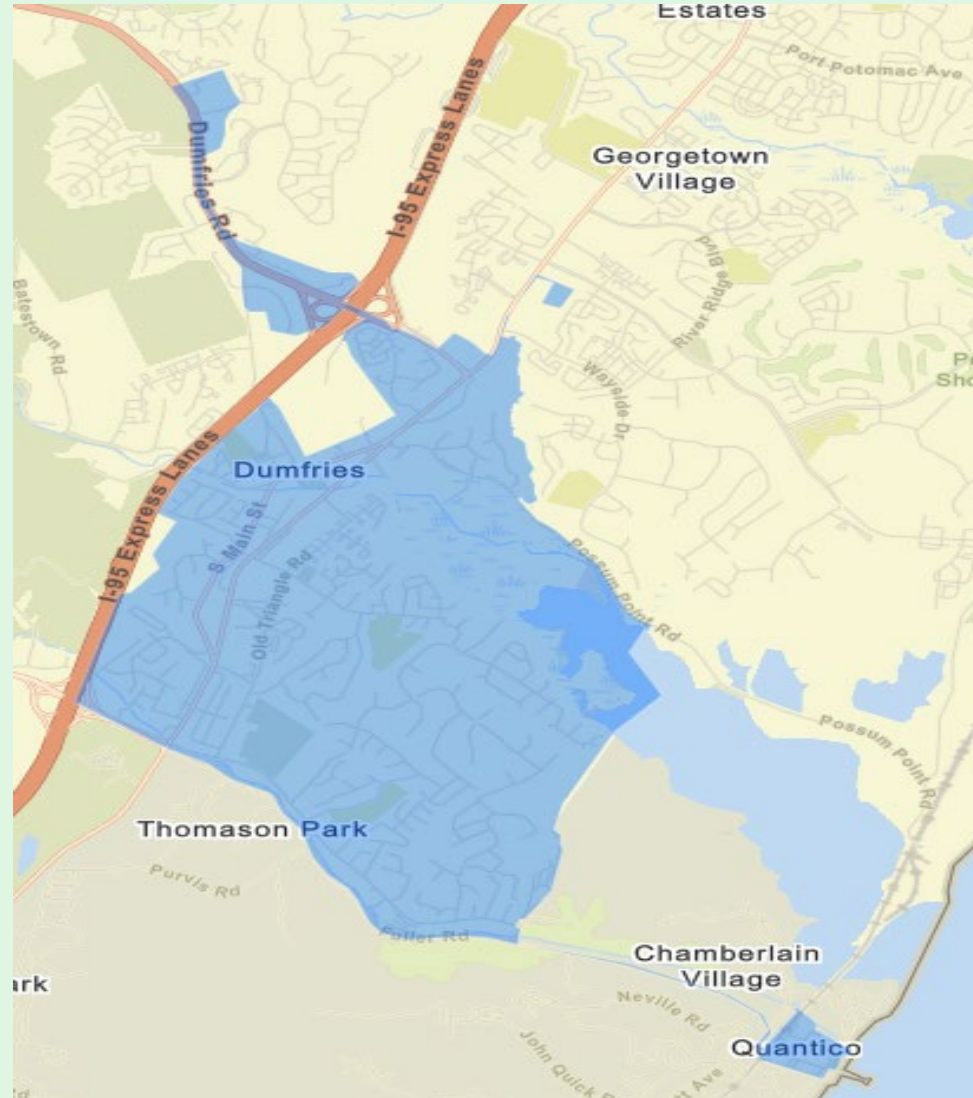
## Real-time arrival notifications

- OmniRide is on the way to pick you up!
- OmniRide has arrived! Please board the vehicle.



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# Proposed coverage Zone



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# Prince William Yellow Cab Role

- Will be our private partner for trips onto Quantico
- To end use will appear the same but will be in Yellow Cab vehicles
- App will be the same



# Service Information



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- Monday – Friday, 6:00 am until 10:30 pm
- No fares currently
- When fares return to local fixed route, each OmniRide Connect trip will cost \$2.00
- Only Same Day trips permitted within OmniRide Connect Zone
- Wait time for service is intended to be no more than 15 minutes from time of reservation to time of pickup
- Would run from existing Potomac Ave stop. Changes be made
- Late spring 2023 estimated start





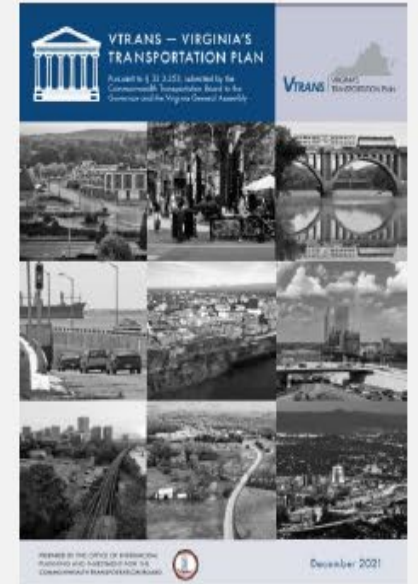
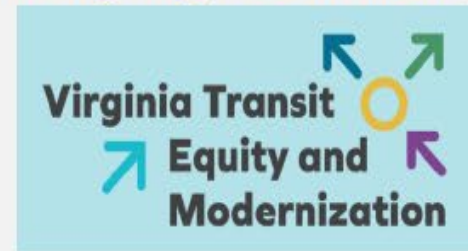


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# Zero Emissions Update

# Study Purpose

- ❖ **Develop** a ZEB transition implementation plan that provides for continuous and reliable OmniRide service.
- ❖ **Reduce** the total lifecycle emissions of OmniRide operations.
- ❖ **Identify** a ZEB technology or set of technologies that advance(s) environmental justice in the communities in which OmniRide operates.
- ❖ **Select** a ZEB technology or set of technologies that is cost-effective for OmniRide operations.
- ❖ **Create** a ZEB transition implementation plan that is scalable for full-fleet transition, and flexible given rapidly changing technology.





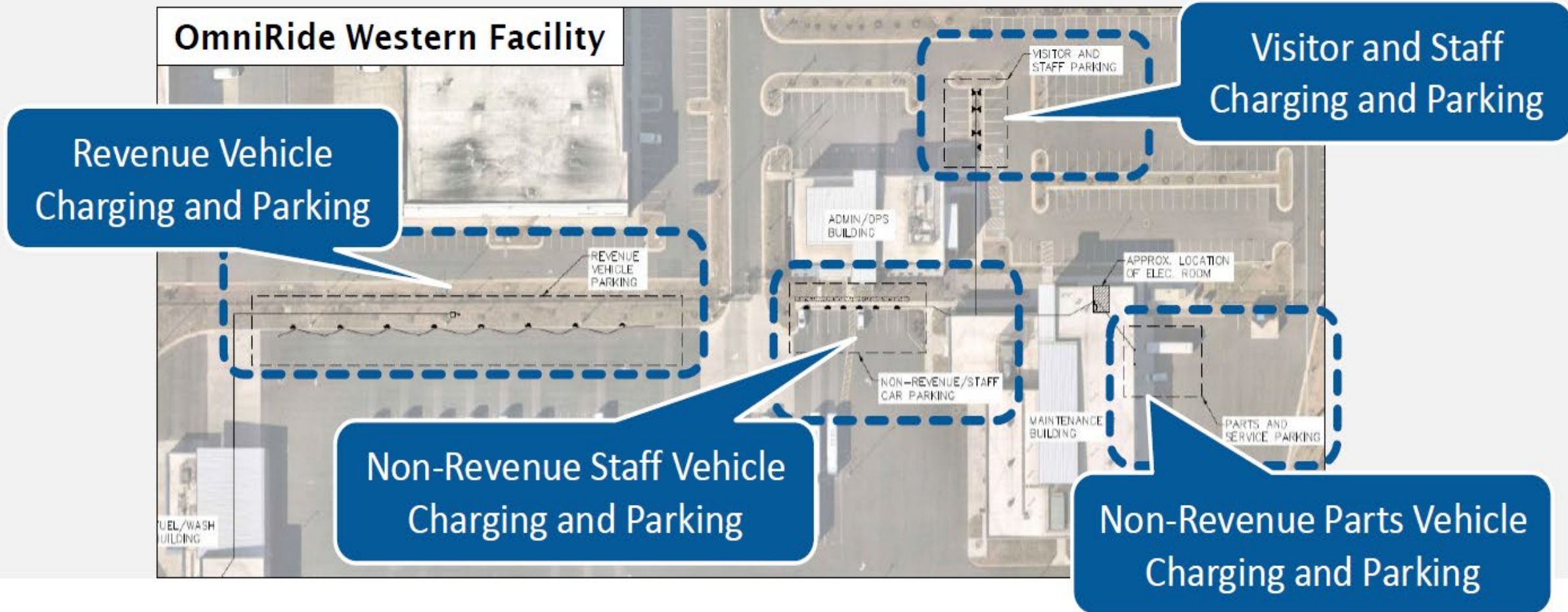
# Study Process



# Recommendation 1

## Deploy battery electric paratransit vans and staff vehicles

- Immediate-term opportunity to deploy EV technology at a small scale.
- Serve as an introduction for OmniRide staff to EV equipment and operations.

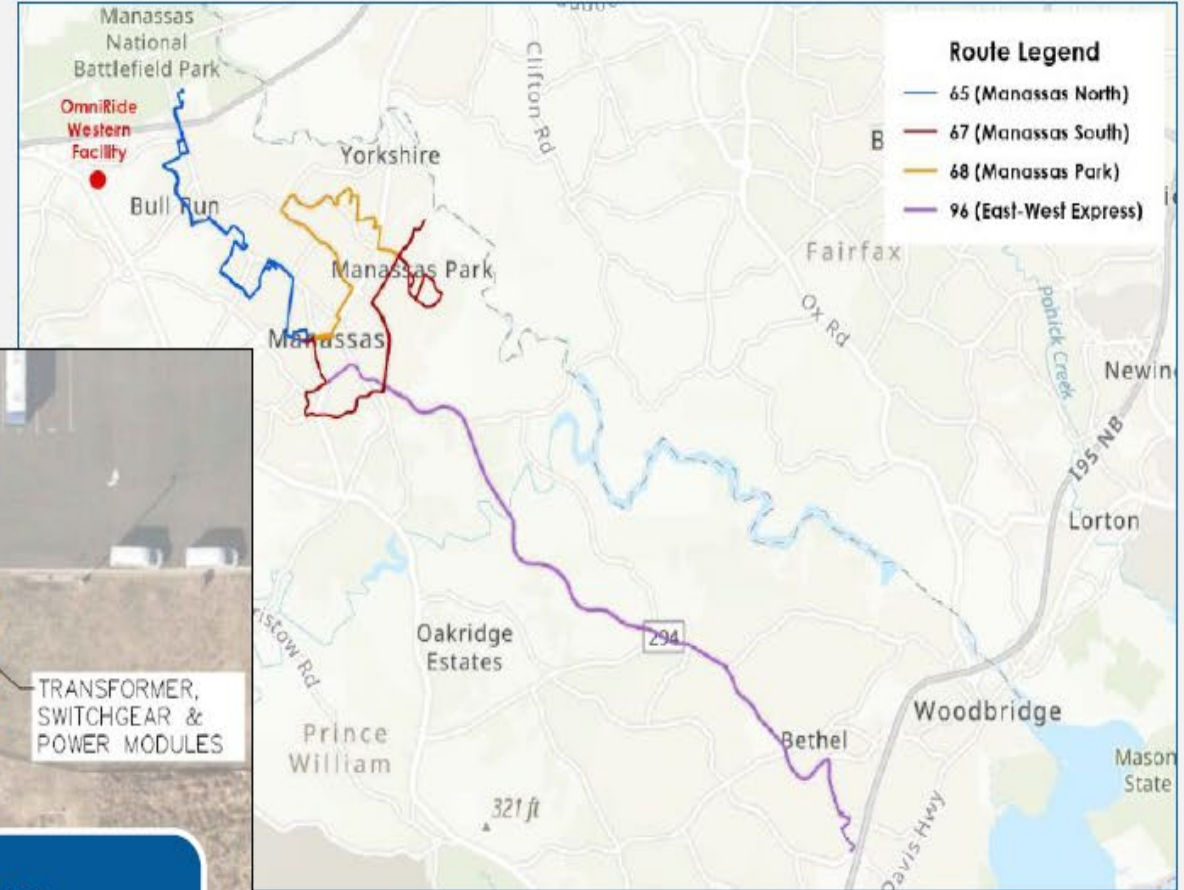




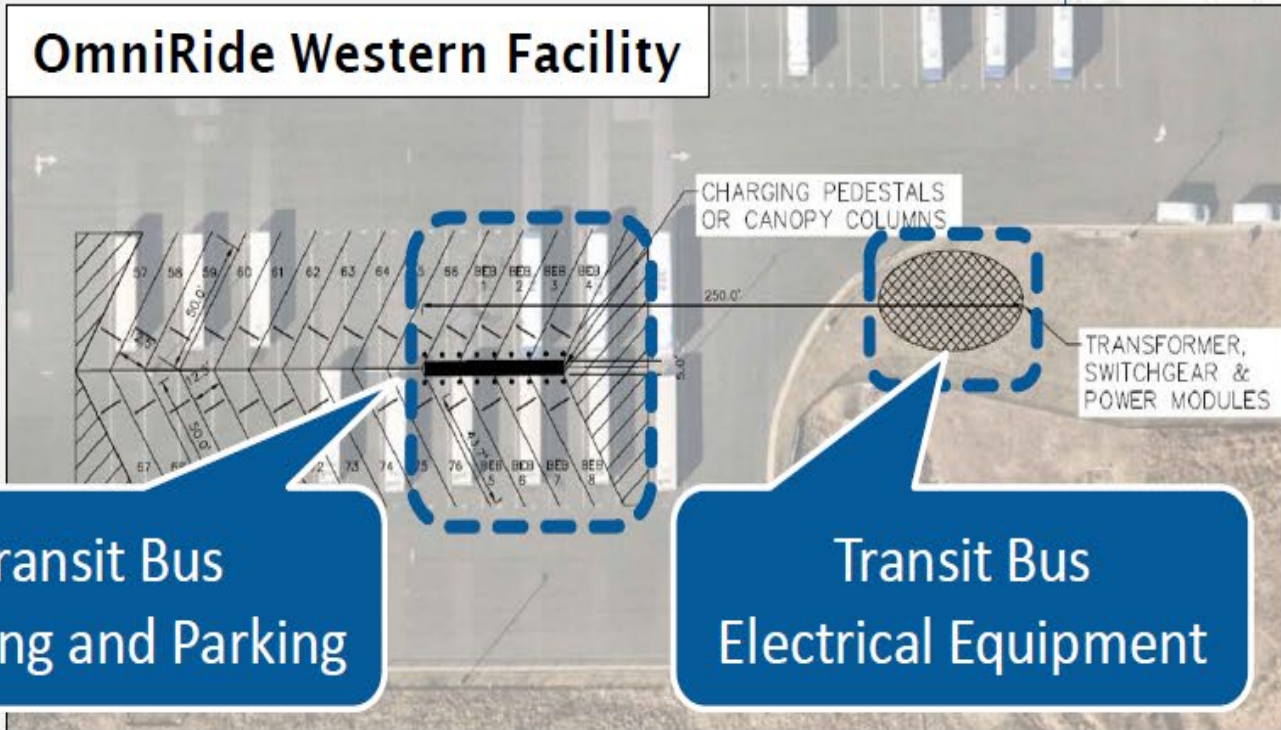
# Recommendation 2

Short-term adoption of BEBs on select OmniRide local routes and east-west express

- Purchase 6-8 BEBs, equipment and restripe parking.
- Monitor for approximately 2 years.



## OmniRide Western Facility



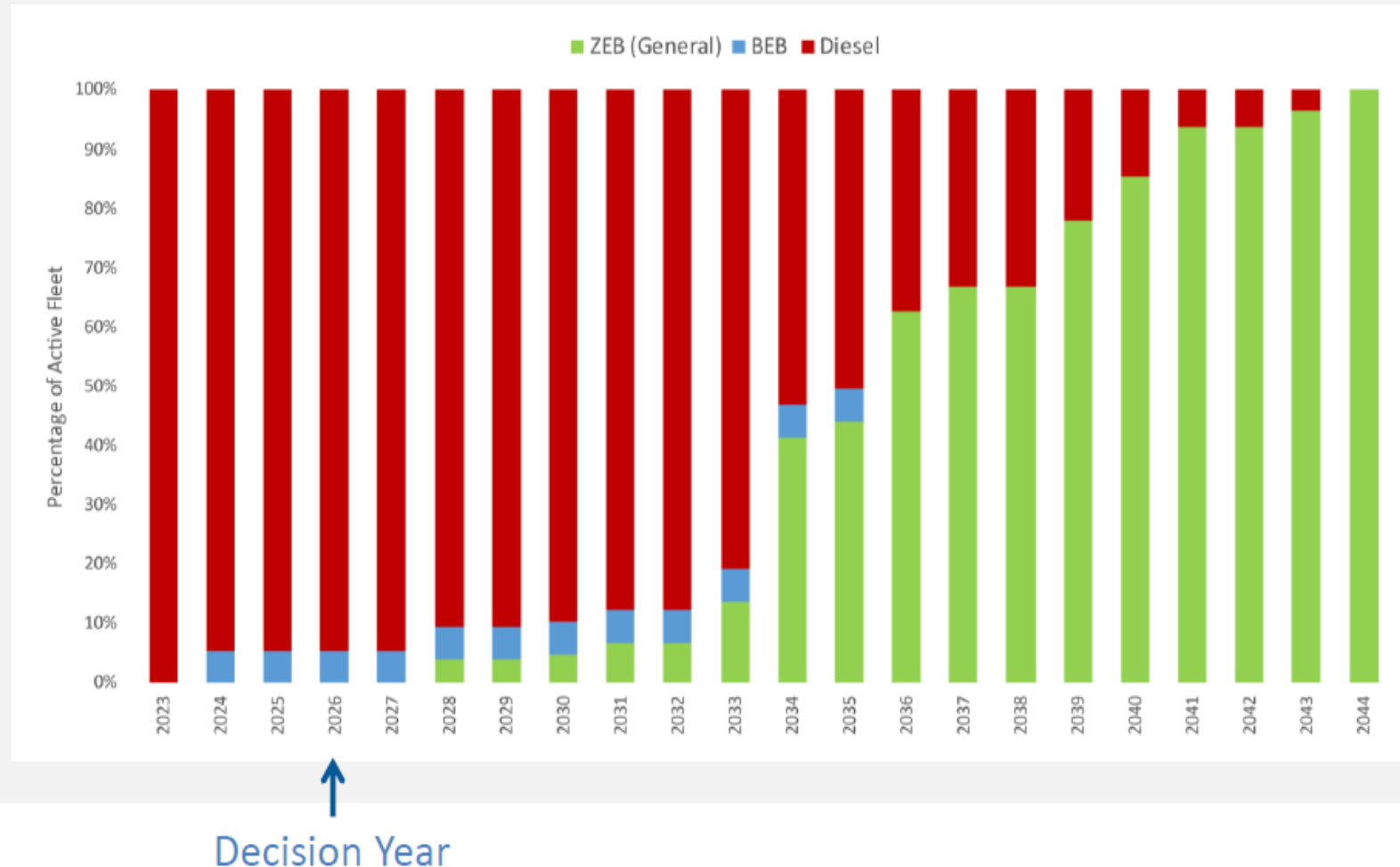
Transit Bus  
Charging and Parking

Transit Bus  
Electrical Equipment

# Recommendation 3

Re-evaluate the state of the market to determine a preferred ZEB for long-term implementation

- Monitor the performance of BEBs during the monitoring period.
- After 2 years (approx. 2026), reassess the state of the market.
- Select a preferred ZEB technology to adopt in the long-term.
- Scale-up infrastructure.





# Capital Costs for Rolling Stock

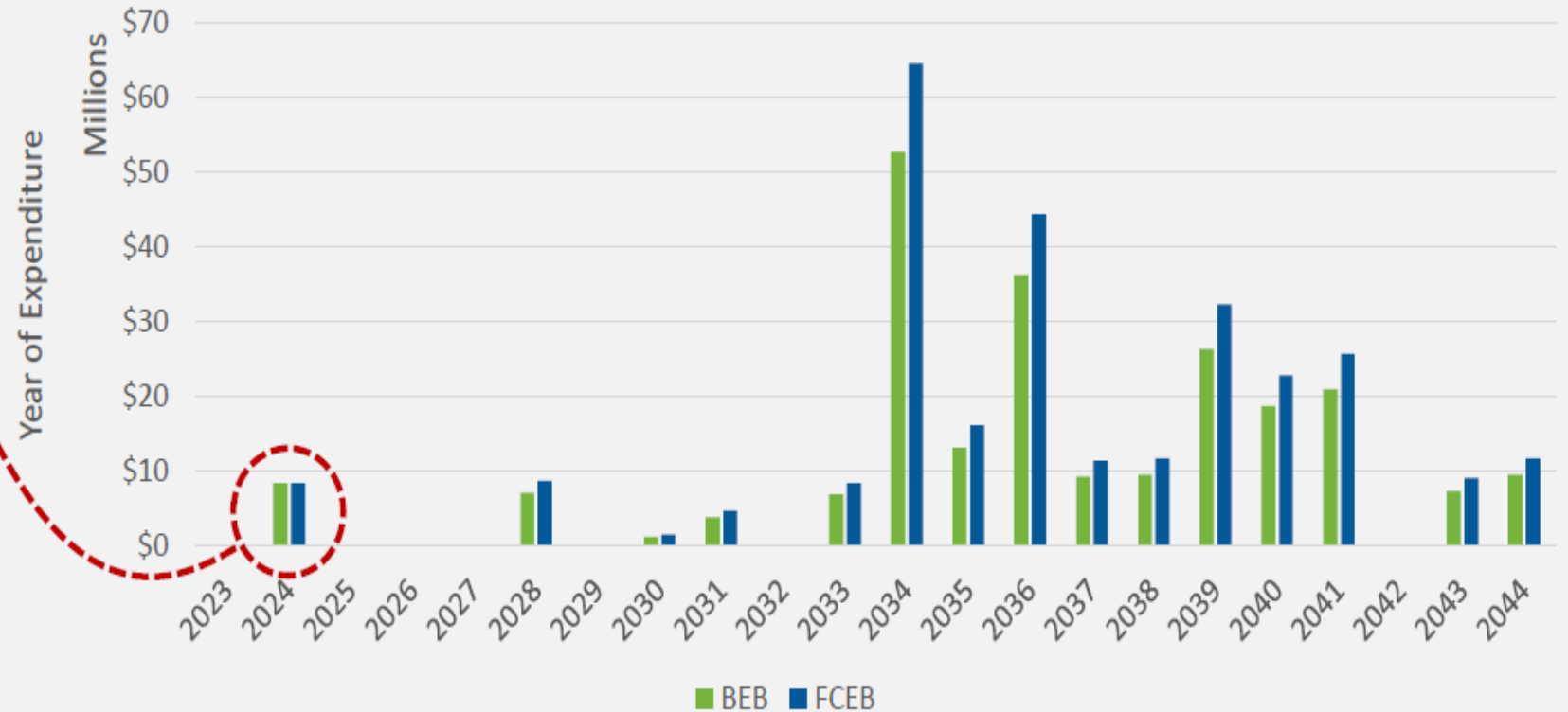
Potential capital costs for full-fleet transition

## Near Term

Item	Count	Cost
Battery Buses	8	\$8,472,000
Paratransit Van	8	\$1,504,000
<b>Total</b>	<b>16</b>	<b>\$9,976,000</b>

## Long Term

Bus Fleet Replacement



# Capital Costs for Facilities

Potential capital costs for full-fleet transition

## Near Term

Cost Estimate Section	Cost
Exterior Improvements	\$ 66,000
Electrical Components	\$ 1,917,000
Construction	\$ 1,106,000
Architecture / Engineering	\$ 664,000
<b>Near-Term Project Total (Rounded)</b>	<b>\$ 3,753,000</b>

## Long Term

Facility	BEB	FCEB
<b>Western Facility</b>	\$ 12,300,000	\$ 6,900,000
<b>Woodbridge Facility</b>	\$ 28,800,000	\$ 13,800,000



# Programmatic Cost Changes

Potential programmatic impacts resulting from a 100% transition

Technology Type	Cost of Fuel Per Mile	Cost of Scheduled Maintenance Per Mile	Cost of Unscheduled Maintenance Per Mile
Fuel Cell Electric Bus (FCEB)	\$ 1.69	\$ 0.14	\$ 0.30
Battery Electric Bus (BEB)	\$ 0.41	\$ 0.41	\$ 0.32

- Electric power varies in cost throughout the day
- Overnight charging is usually the least costly
- Charge management solutions (software) can help to manage charging demand and therefore reduce cost

# Funding Sources

## Near- and long-term opportunities for grants or other sources

- DRPT

- Capital Assistance (MERIT) - Fleet Maintenance, Small Expansion, and Fleet Replacement (February 1, 2023, varying levels of match from 50% to 68%)
- Demonstration Grant for microtransit and shared charging infrastructure
- SMART SCALE- apply in 2024 on basis of local accessibility and environmental quality; if expansion, could apply for congestion mitigation

- NVTC

- Commuter Choice

- NVTA

- FTA

- Bus and Bus Facilities Competitive
- Low- or No-Emissions Vehicle Program
- Congestion Mitigation and Air Quality (CMAQ) Improvement Program

- Partnerships (Local and Private)



# What else?



- ▶ Eastern Local Bus Restructure-Spring 2024
- ▶ Proposed Commuter Bus expansion Stafford/Spotsylvania-2024
- ▶ Continued refinement of commuter service based on demand (currently 60% pre pandemic)
- ▶ Mobile fare payment pilot underway



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# Thank You! Any Questions?

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