

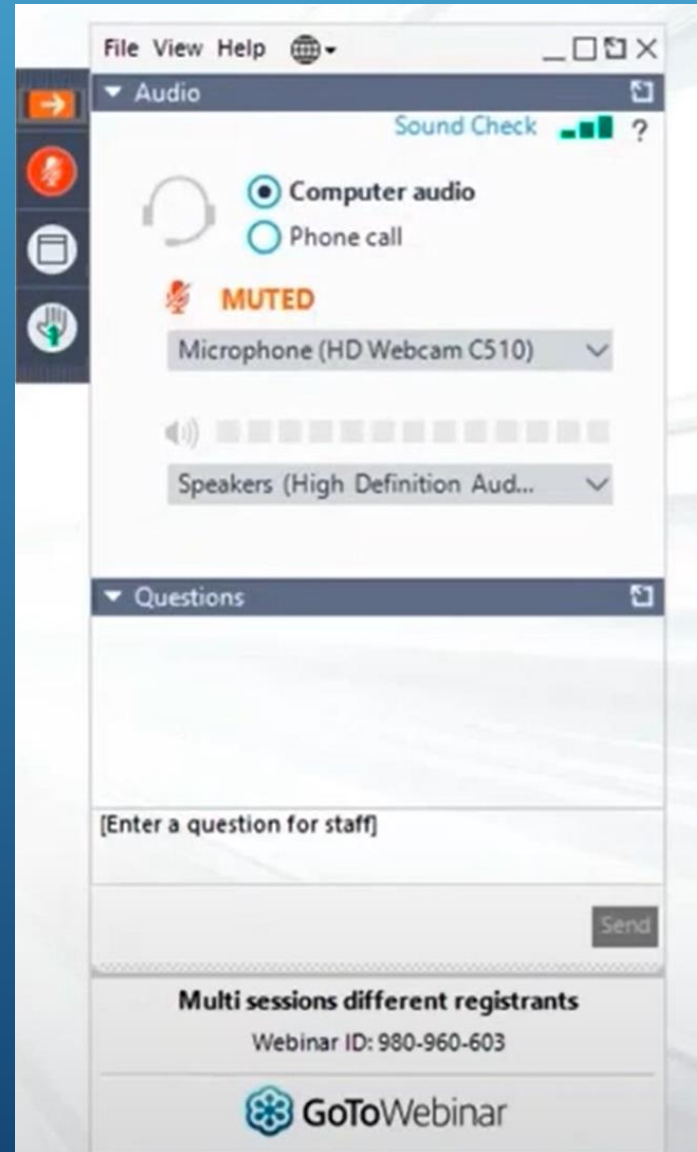
Commuter Choice Maryland Webinar Spotlight: Zero Emission Vehicle Infrastructure Plan (ZEVIP)

Webinar Spotlight 05.25.22

WEBINAR FAQS

“AS-NEEDED”

- ▶ Select Computer or Phone Audio
- ▶ The question window can be used for both technical issues and Q & A
- ▶ Slide decks & webinar recording will also be available at the Commuter Choice Maryland website



WELCOME!

WHO WE ARE

Commuter Choice Maryland provides **complimentary** consultations to employers starting or enhancing their workplace transportation and commuter benefits programs. We are a program of the Maryland Department of Transportation working in partnership with local and regional jurisdictions.

WHAT WE DO

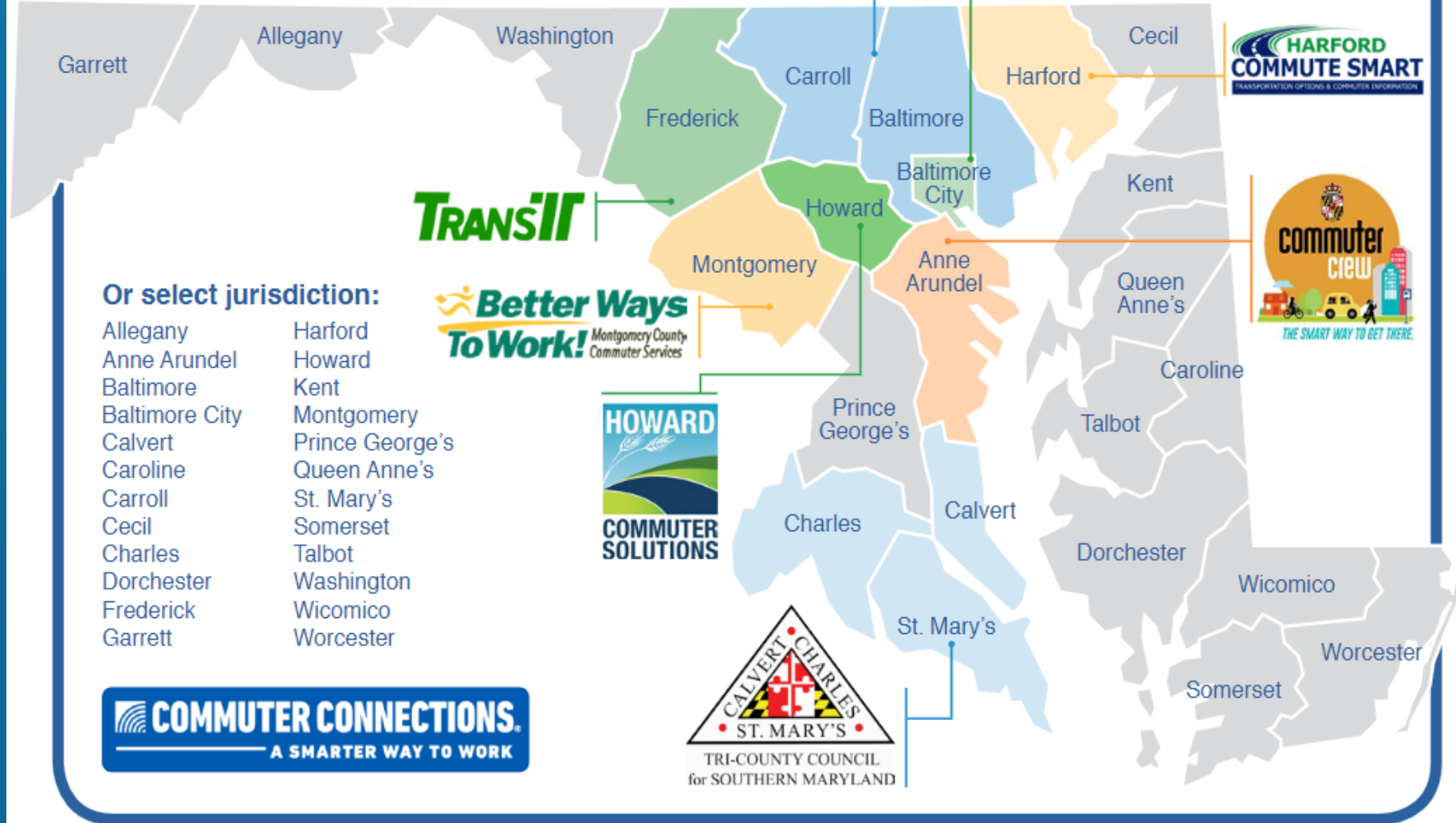
We make it easy for your employees to find affordable, convenient, and sustainable ways to get to work that enhances their quality of life, while helping you attract and retain in-demand talent.

WHY US

As a **free** service, we work with you to create a customized workplace transportation plan that is easy to administer. Our staff and partners are dedicated to helping you meet the transportation needs of your workforce.



Partnerships are key to success!



Or select jurisdiction:

- | | |
|----------------|-----------------|
| Allegany | Harford |
| Anne Arundel | Howard |
| Baltimore | Kent |
| Baltimore City | Montgomery |
| Calvert | Prince George's |
| Caroline | Queen Anne's |
| Carroll | St. Mary's |
| Cecil | Somerset |
| Charles | Talbot |
| Dorchester | Washington |
| Frederick | Wicomico |
| Garrett | Worcester |



STRATEGIES TO SUPPORT TRANSPORTATION DEMAND MANAGEMENT (TDM)

- ✓ **incentTrip**
- ✓ **Maryland Commuter Tax Credit & New Legislation**
- ✓ **Commuter Choice Maryland Employer Partner Program**
- ✓ **Centralized Website**
- ✓ **Commuter Calculator**
- ✓ **Federal Transportation Fringe Benefit**
- ✓ **Toolkits: Commuter Benefits, Vanpool & Telework**
- ✓ **Commuter and Employer Resources**
- ✓ **Guaranteed Ride Home**
- ✓ **TDM Webinars**



incentTrip: NOW AVAILABLE FOR MARYLAND!

5 steps to start earning rewards!

1. Download incentTrip

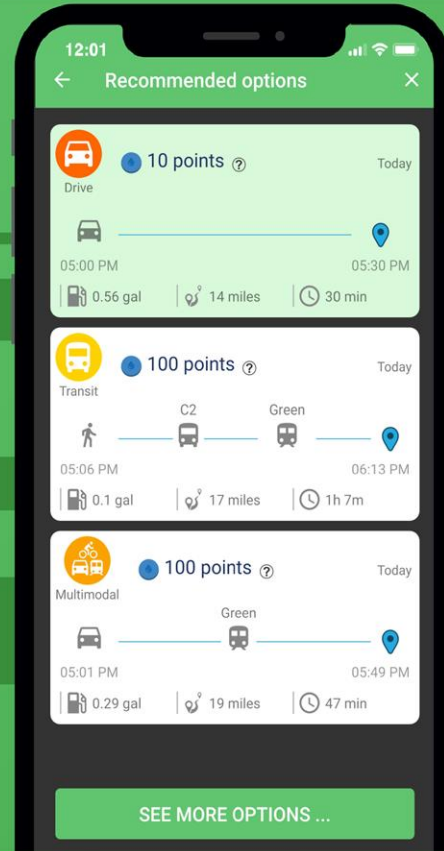


2. Create your account

3. Plan your trip

4. Take your trip

5. Collect Points & Redeem for rewards right in the app!



Earn reward points for every trip and choose different trip options.



Earn Rewards



Avoid Traffic



Save Money



Learn more at:

mdot.Maryland.gov/incentTrip

MARYLAND COMMUTER TAX CREDIT & NEW EXPANSION

Maryland Employers may claim a tax credit for 50% of eligible commuter benefits up to a maximum of \$100 per participating employee per month

Existing Qualifying Commuter Benefits:

- Transit Fare
- Company vanpool program
- Company Guaranteed Ride Home program
- Cash-in-Lieu of Parking/Parking Cash Out program

New expansion to go into effect on July 1, 2022

- ✓ **Carpool**
- ✓ **Telework**
- ✓ **Active Transportation (Biking, Scootering, and Walking)**
- ✓ **Multimodal Commute Last Mile Connection**

Find out more at CommuterChoiceMaryland.com



STRONGER TOGETHER FOR MARYLAND!



- Reduced Greenhouse Gas Emissions
- Congestion Reduction
- Enhanced Quality of Life
- Increased Economic Opportunities



Or select jurisdiction:

Allegany	Harford
Anne Arundel	Howard
Baltimore	Kent
Baltimore City	Montgomery
Calvert	Prince George's
Caroline	Queen Anne's
Carroll	St. Mary's
Cecil	Somerset
Charles	Talbot
Dorchester	Washington
Frederick	Wicomico
Garrett	Worcester

Find out more at CommuterChoiceMaryland.com



MARYLAND

Zero Emission Vehicle Infrastructure Plan (ZEVIP)

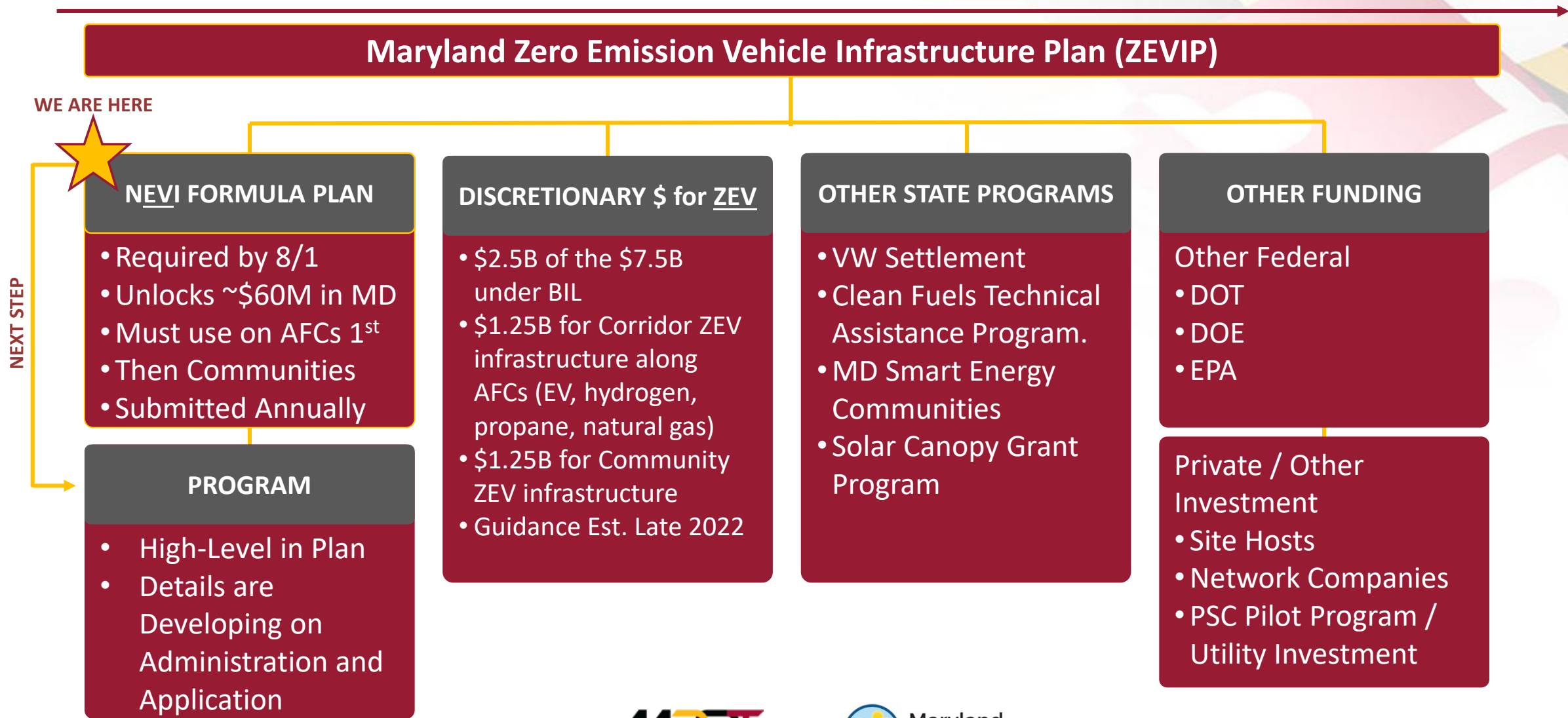
ZEEVIC

May 25, 2022

Agenda

- Overview
 - What is the difference between NEVI and ZEVIP?
- Public Participation
 - AFC Corridor Prioritization
 - Identified Charging Locations
 - Summary of Menti
 - Website Metrics
- Next Steps
 - Schedule
 - Stakeholder & Community Outreach
 - Next Webinar

What are ZEVIP and NEVI?



Requirements for NEVI Formula Plan / Program

1 | Build Out **ALL** Existing Corridors

2 | Obtain Certification

3 | Invest in Communities

Build Out Requirements

- ≤ 50 miles between one station/site and the next on corridor (Minimum 2 Stations)
- ≤ 1 mile from Interstate exits or highway intersections along the corridor
- Include 4 Combined Charging System (CCS) connectors - Type 1 ports (Simultaneously charging 4 EVs)
- Maximum charge power per DC ports should not be below 150 kW.
- Site power capability should be no less than 600 kW (Support at least 150 kW per port simultaneously across 4 ports)

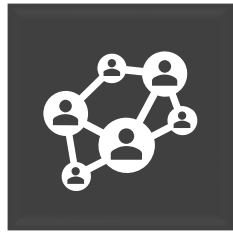
NEVI 7 Funding Categories

1. Acquisition and installation of EV charging infrastructure
2. Operating assistance
3. Development phase activities
4. Traffic control devices and on-premise signs
5. Data sharing about EV charging infrastructure
6. Acquisition or installation of traffic control devices located in the right-of-way
7. Mapping and analysis activities

NEVI Plan Components



Introduction



State Agency
Coordination



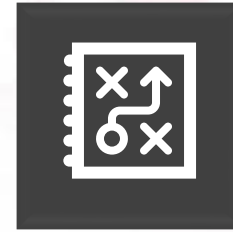
Public
Engagement



Plan Vision &
Goals



Contracting



Existing &
Future
Conditions



EVSE
Deployment



Implementation



Civil Rights



Equity
Considerations



Labor &
Workplace
Considerations



Cybersecurity



Program
Evaluation



Discretionary
Exceptions

Public Participation



MetroQuest Survey

- Survey launched March 24th
 - 210 Participants
- Opportunity for Feedback/Comment
 - Vision and Goals
 - Prioritization
 - Infrastructure Siting

Maryland ZEVIP Stakeholder Survey More at: <https://evplan.mdot.maryland.gov/>

1 Introduction 1 »

Maryland Zero Emission Vehicle Infrastructure Plan

WELCOME

Introduction

Maryland is required to develop and submit a plan to Federal Highway Administration (FHWA) to access National Electric Vehicle Infrastructure (NEVI) formula funding. The **Maryland Zero Emission Vehicle Infrastructure Plan (ZEVIP)** will be developed jointly by the Maryland Department of Transportation (MDOT) and the Maryland Energy Administration (MEA) and in collaboration with our stakeholders and communities to strategically deploy publicly accessible charging infrastructure.

→ Next

Maryland will receive approximately **\$60 million** over 5-years to support the expansion and deployment of EV charging infrastructure along designated AFCs.

MDOT
MARYLAND DEPARTMENT
OF TRANSPORTATION

ME
Maryland
Energy
Administration

GOAL RATING

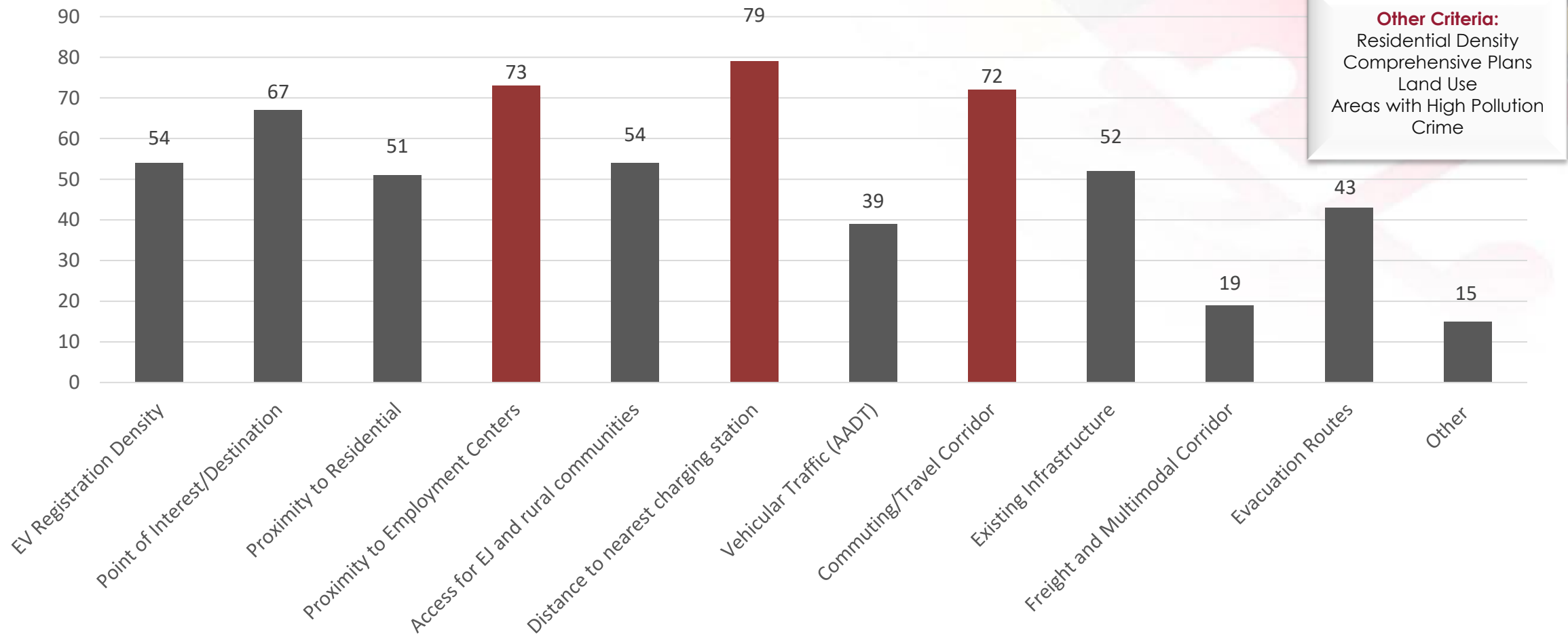
PRIORITIZATION

MAPPING

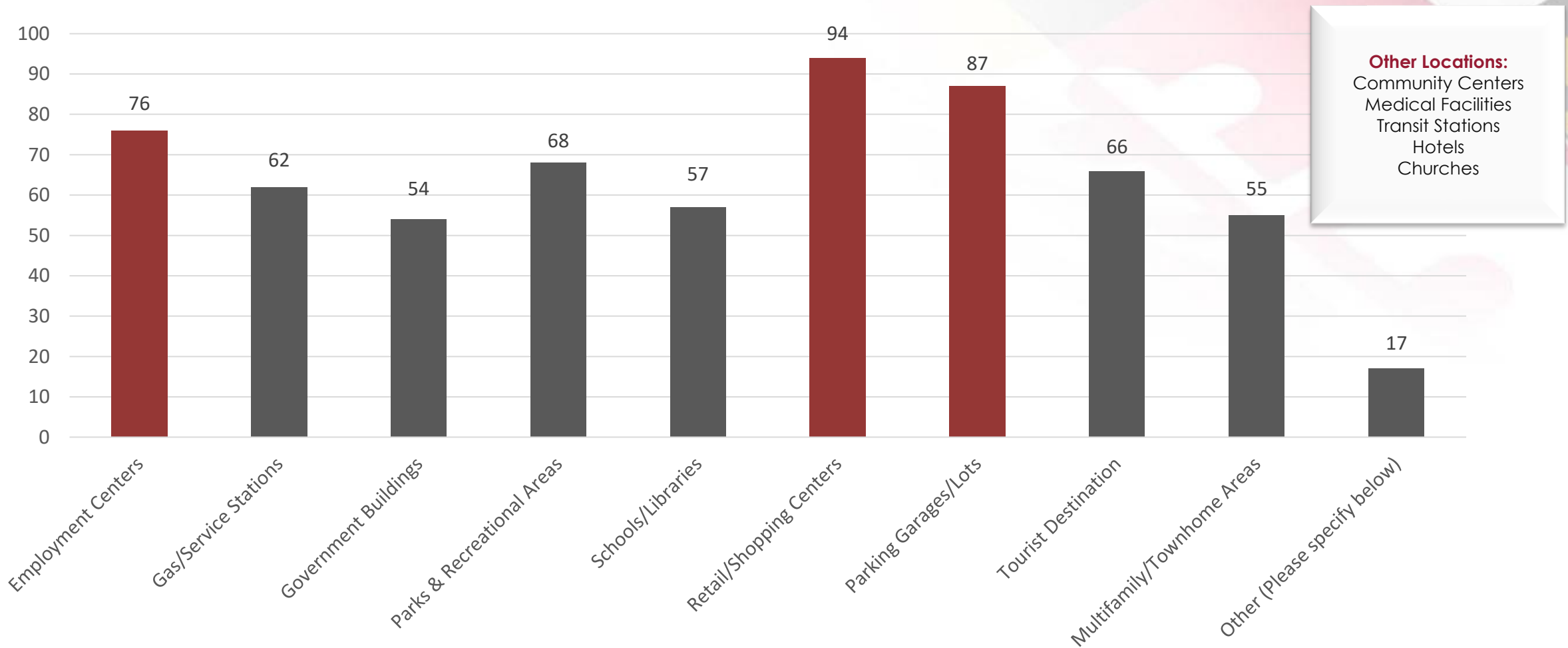
WRAP UP

2 3 4 5

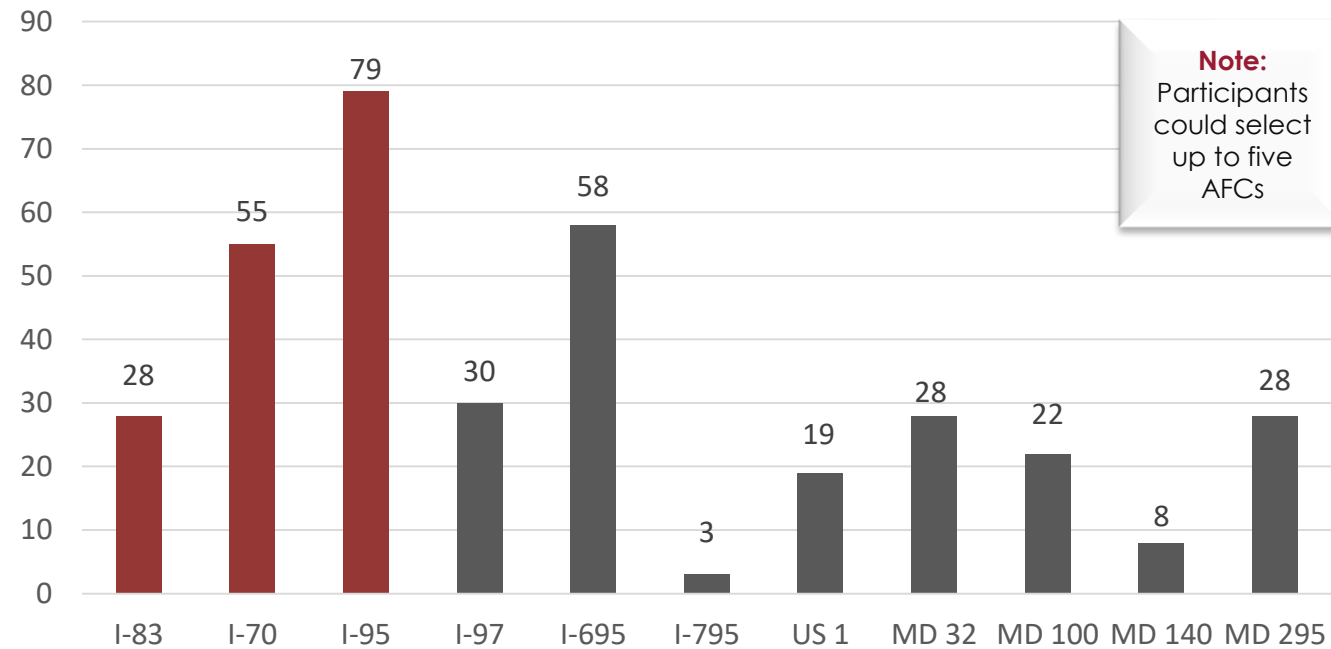
MetroQuest Prioritization Criteria Results



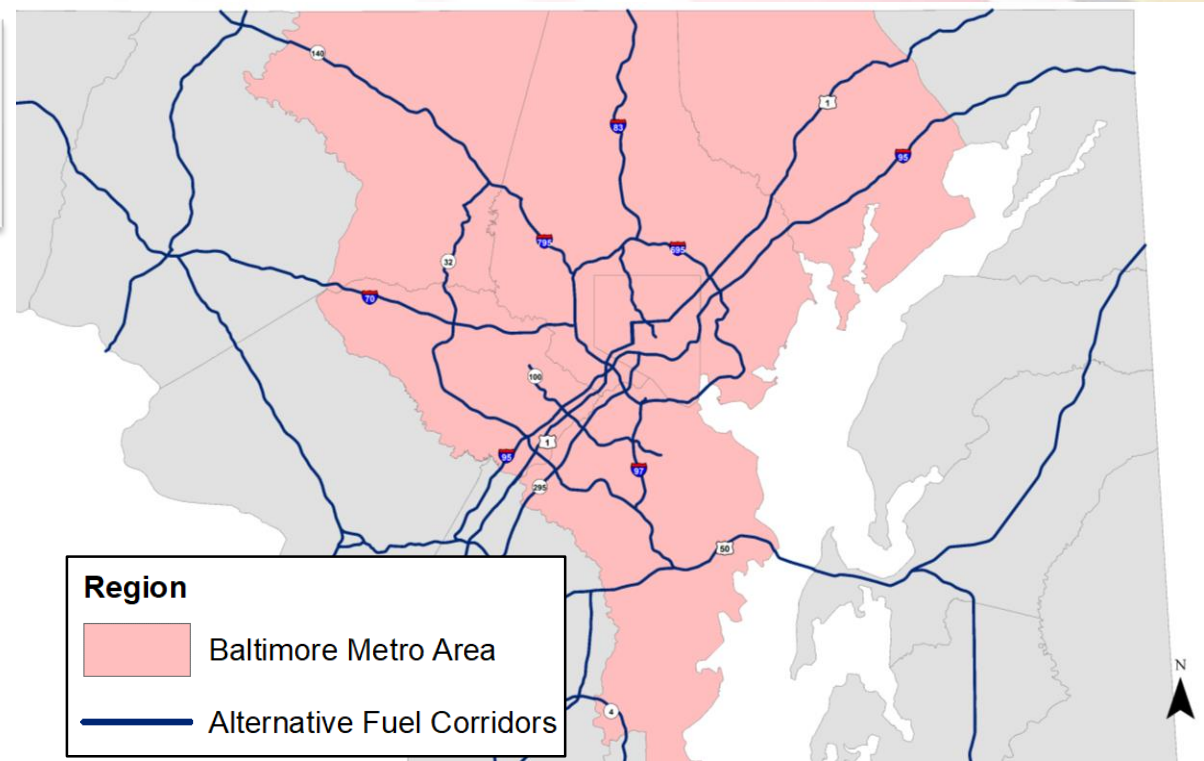
MetroQuest Preferred Location Results



MetroQuest Baltimore Metro AFCs



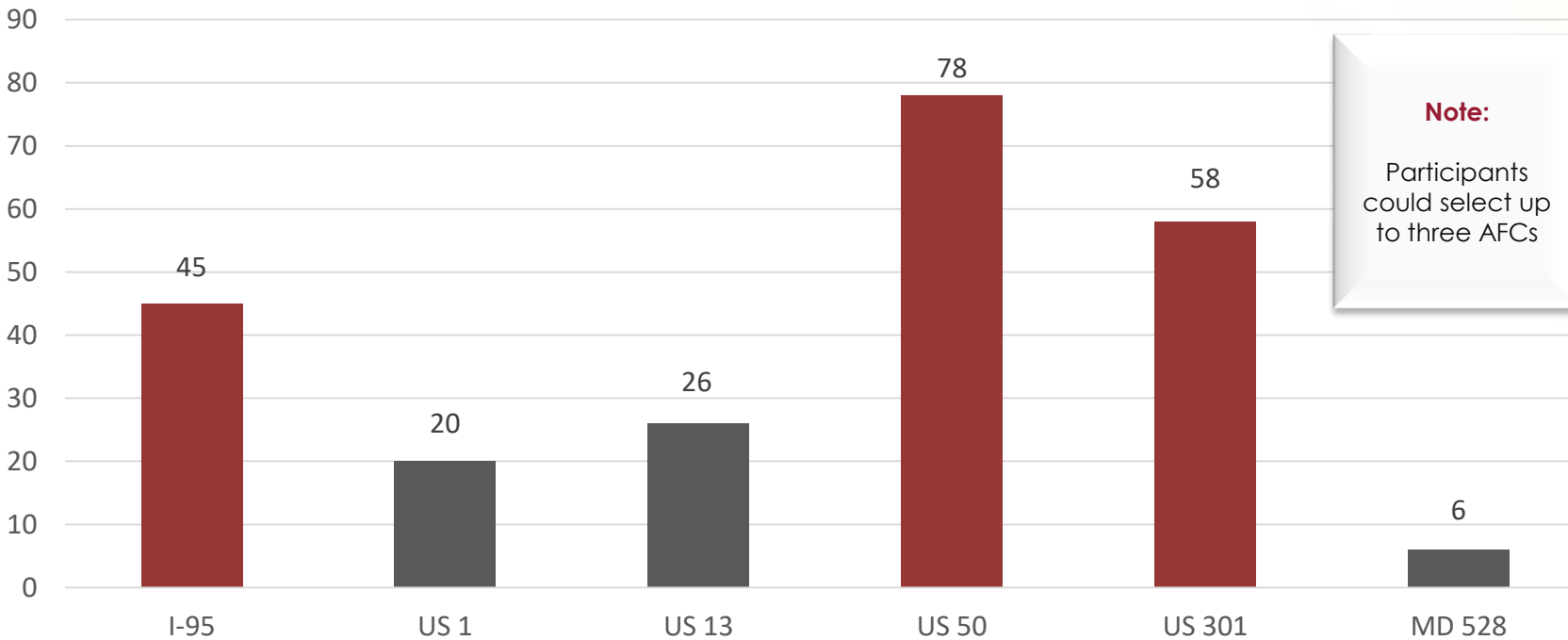
Note:
Participants could select up to five AFCs



Other Corridors Identified:

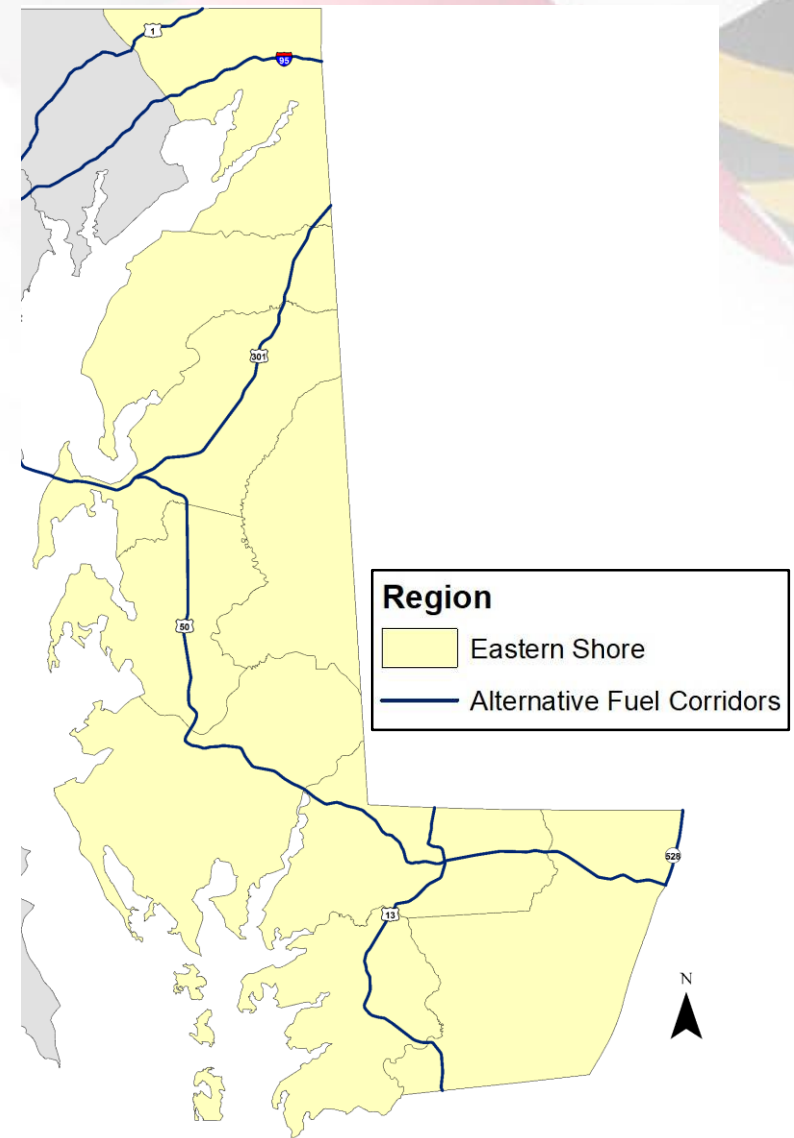
Rt. 29/Columbia Pike, US 50, Rt. 40, US 29, I-270, I-485, I-81, MD-2, US 301, Rt. 202, Rt. 214, Rt. 193, MD 100, MD 32, MD 45, MD 24, MD 7, MD 295, I-70, I-97, MD 150, MD 3, MD 26, MD 30

MetroQuest Eastern Shore AFCs

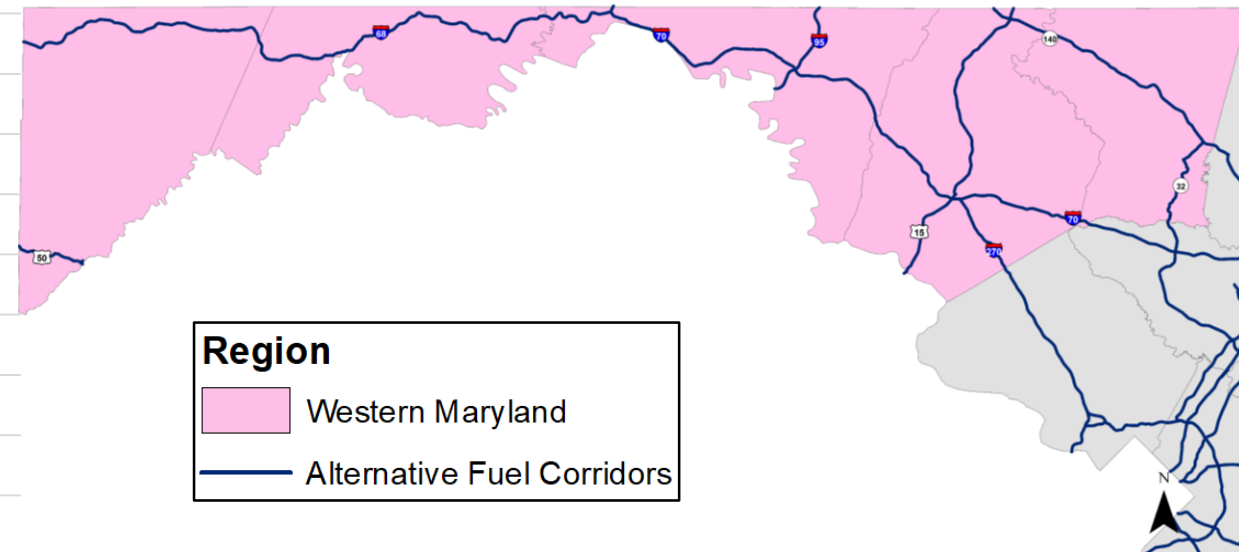
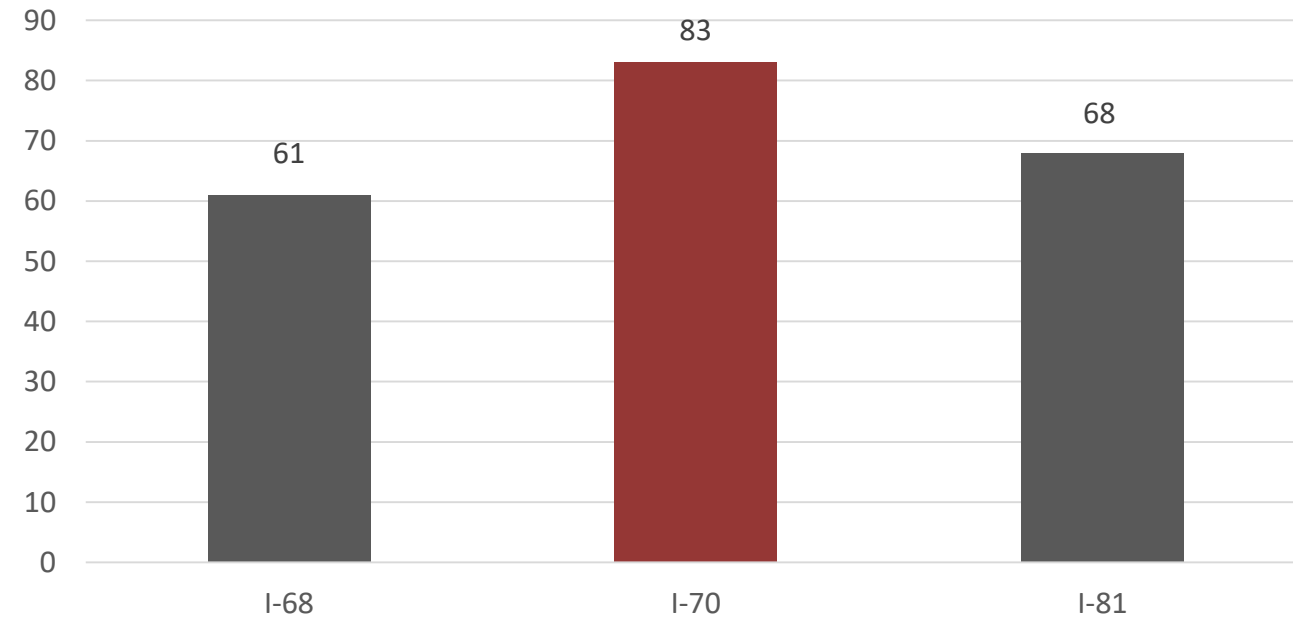


Note:
Participants could select up to three AFCs

Other Corridors Identified:
Rt. 404, MD 213, US 113, MD 90, MD 589



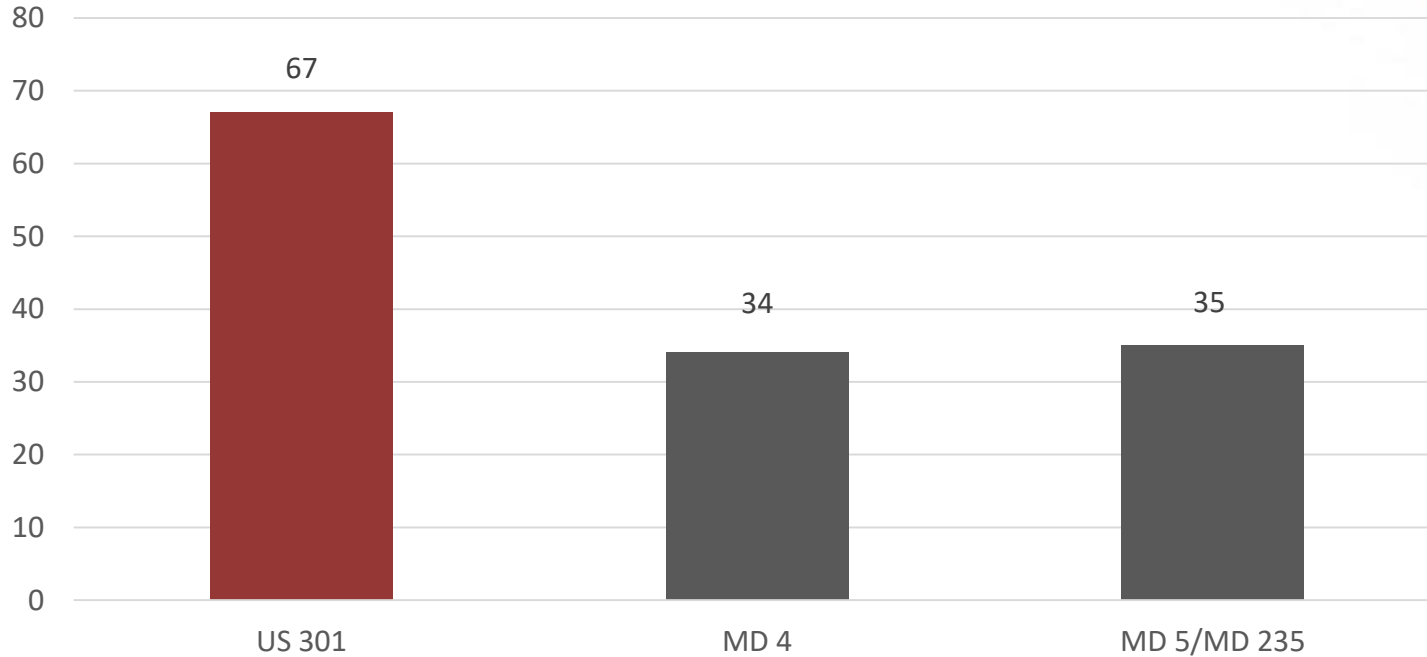
MetroQuest Western Maryland AFCs



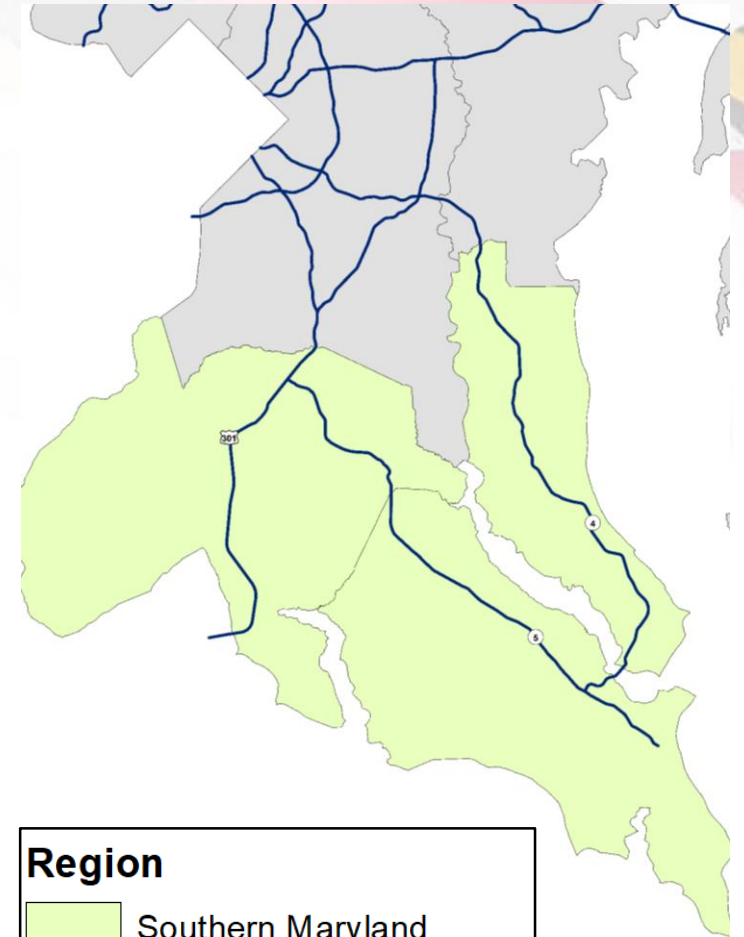
Other Corridors Identified:

US 202, US 40, MD 495, US 219, US 220, MD 135, US 11, MD-63, MD-632, US 144, US 340

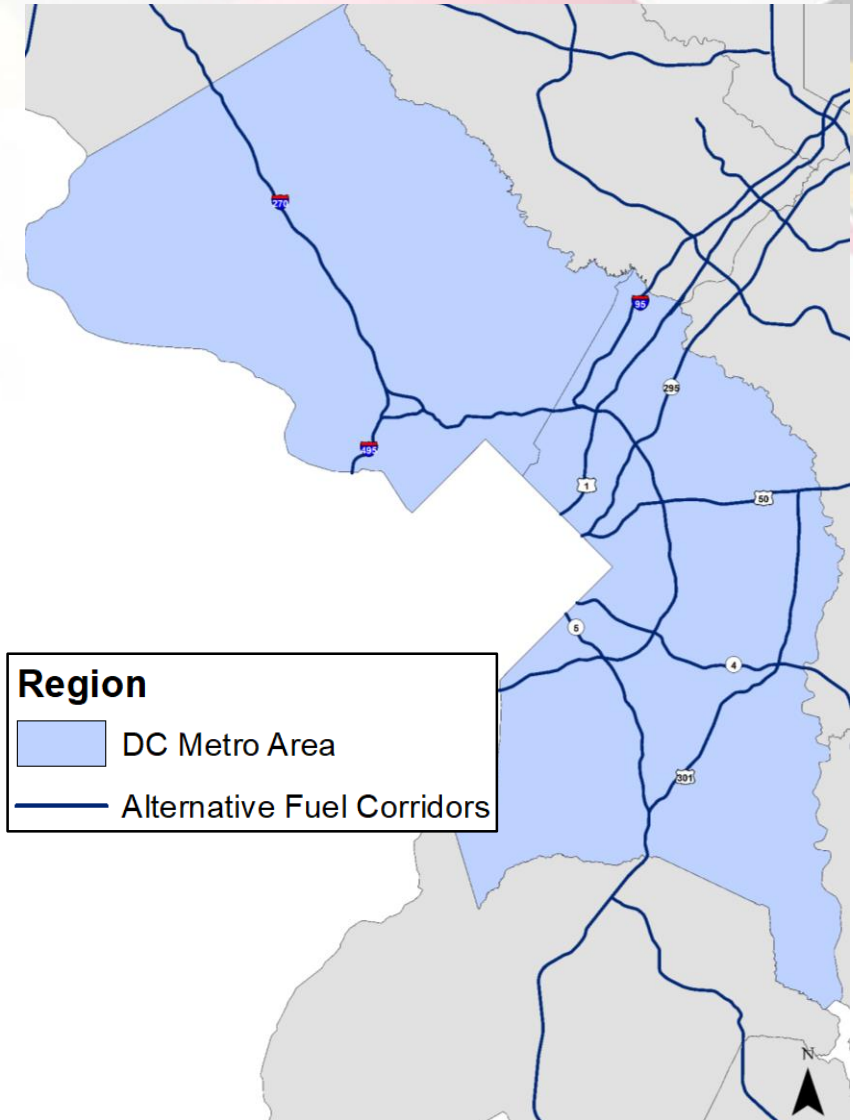
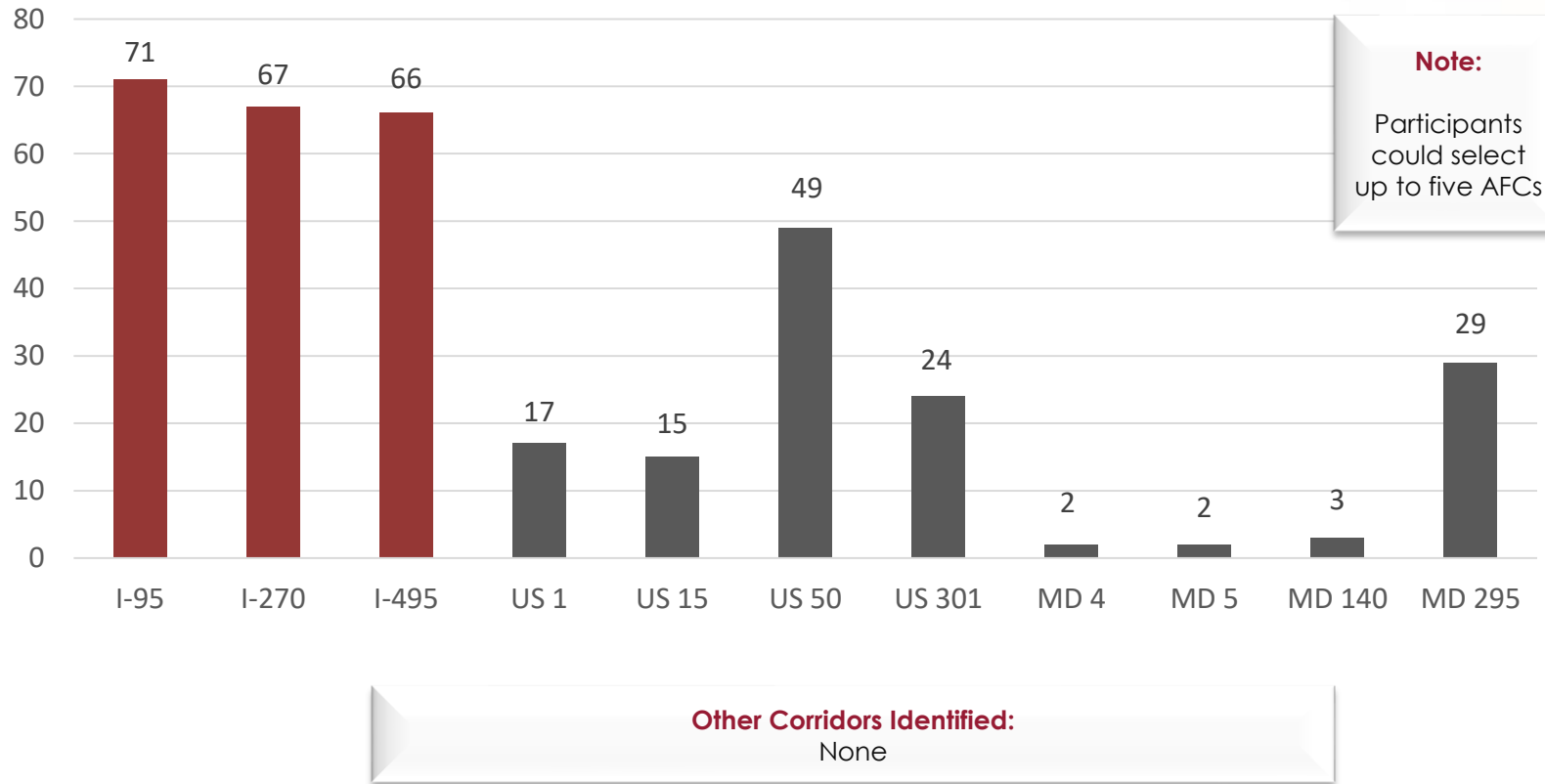
MetroQuest Southern Maryland AFCs



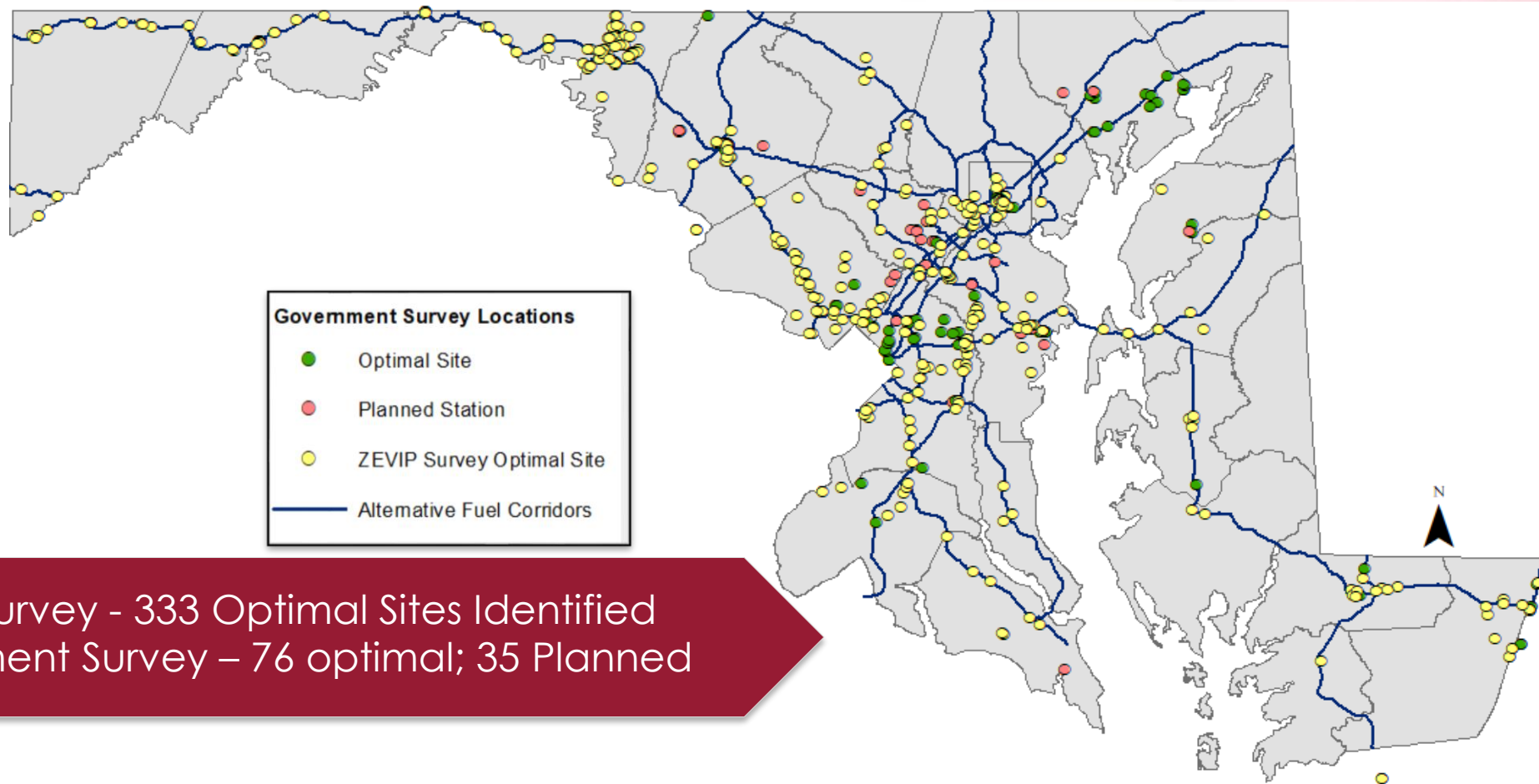
Other Corridors Identified:
None



MetroQuest DC Metro AFCs

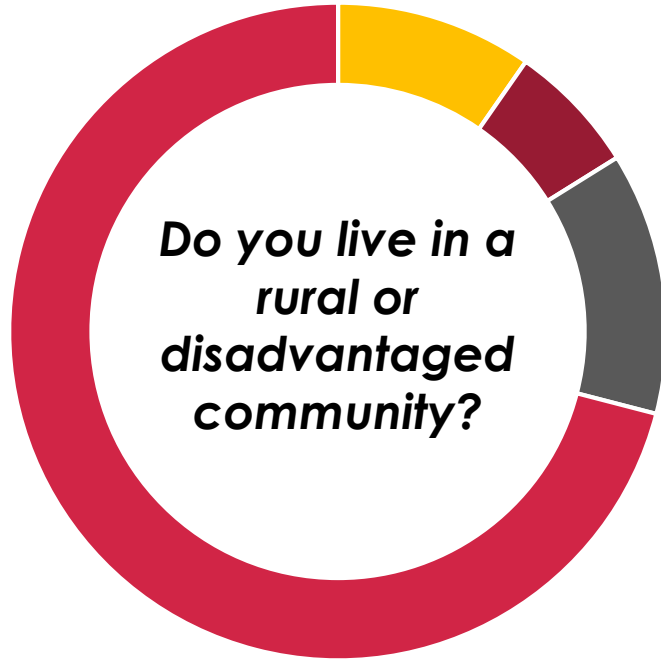


MetroQuest Location Summary

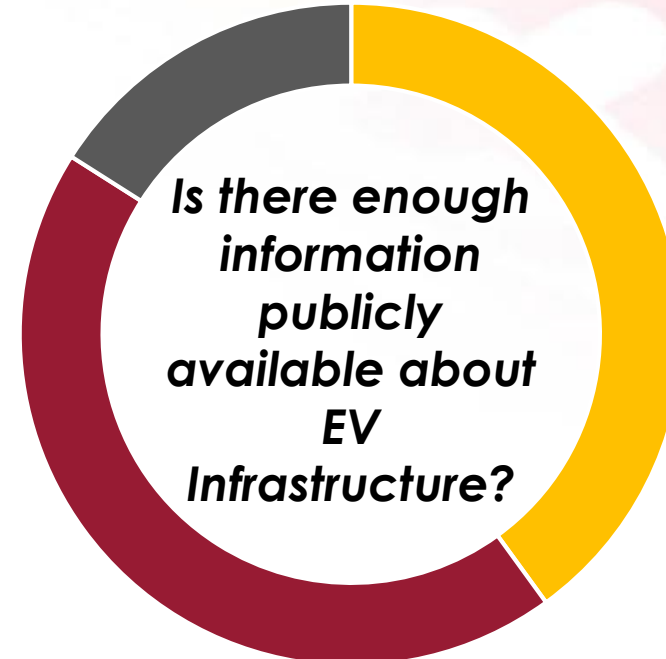


ZEVIP Survey - 333 Optimal Sites Identified
Government Survey - 76 optimal; 35 Planned

Menti Summary



- Yes, I live in one
- Yes, I work in one
- Yes, I live and work in one
- No, neither live nor work

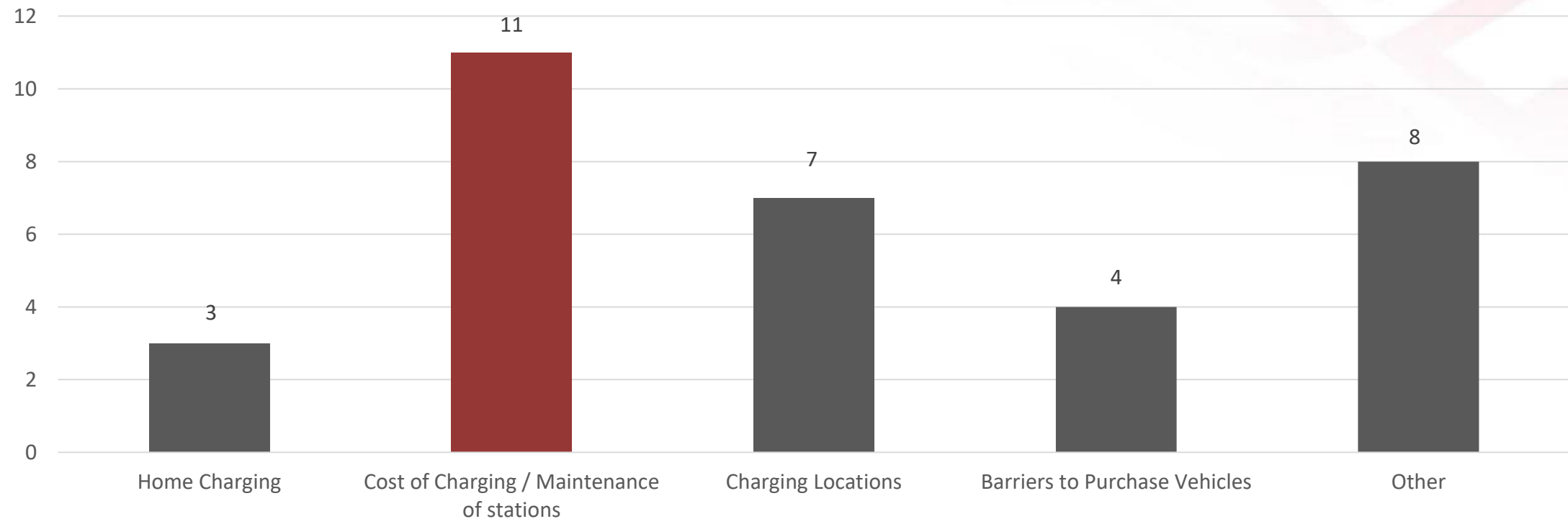


- Yes
- No
- Maybe / Undecided

Menti Summary Continued

What are your top equity concerns related to EV infrastructure?

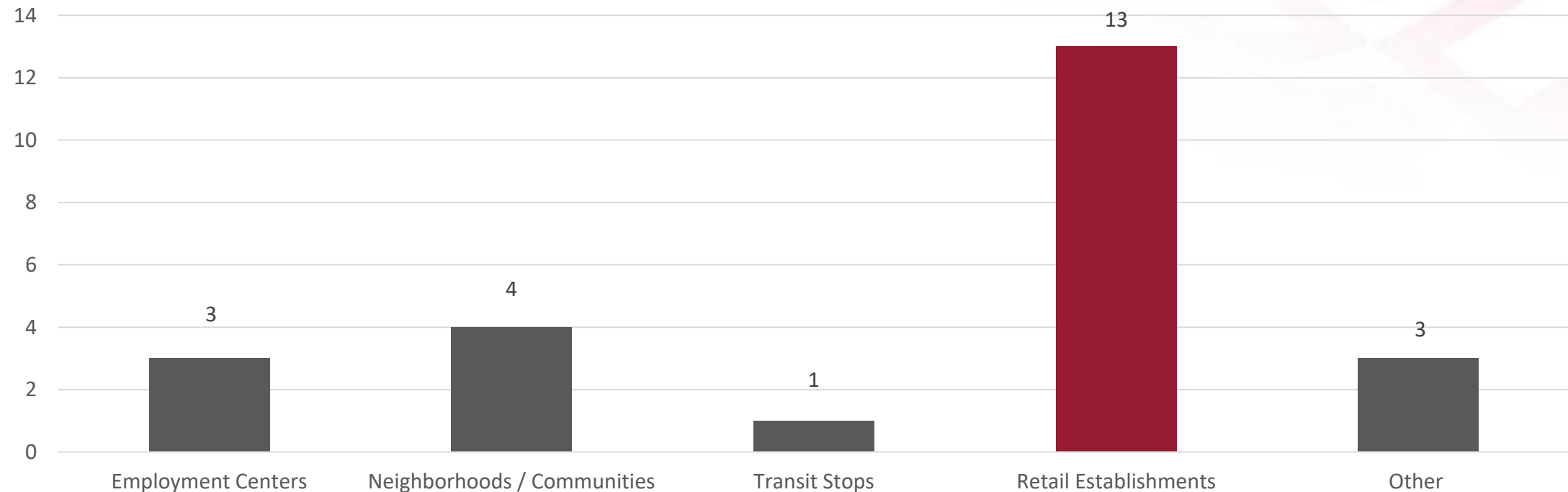
Other:
Lack of Engagement
Gentrification
Future Equipment
Concerns



Menti Summary Continued

Where do you think charging would be best suited in disadvantaged communities?

Other Criteria:
Parking Lots
Churches
Trailheads



EV Plan Website Metrics



400
Page
Views

Includes Homepage and
Stay Engaged page

19th, 26th, 27th
(Highest-trafficked Dates)



Eblast for webinar sent 19th
Day before Webinar 26th
Webinar 27th

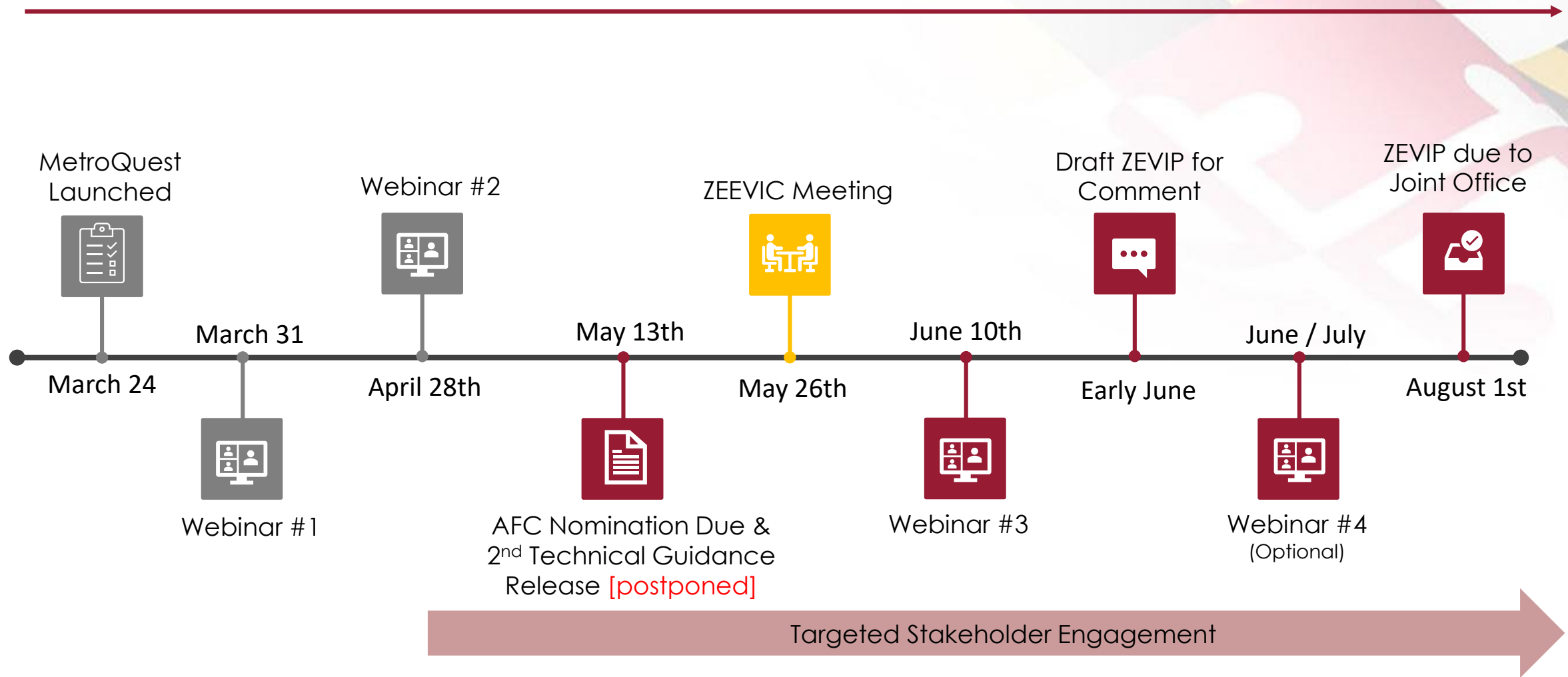


371
Total
Sessions

Throughout
April 2022

Next Steps

Schedule – Subject to Change



Stakeholder Engagement



Utilities



**Network
Companies**
[EV Charging Manufacturers]



**Disadvantaged
/ Rural
Communities**



**OEM's /
Automakers**



**Planning
Partners**








**Potential Site
Hosts**

Community Engagement

- MDOT is working to increase EV Awareness through an outreach effort focused on public education.
- **Total Events: 25**
- **Total Touchpoints since 2017: 7,370**
- **Other Languages: Spanish & Korean**



Data Analysis – Location Based Tool

EV Infrastructure	Land Use	Socioeconomic	Existing Outreach	Other
 <ul style="list-style-type: none">• Charging Stations<ul style="list-style-type: none">- Meets FHWA Criteria- Other DCFC Stations• Alternative Fuel Corridors<ul style="list-style-type: none">- 1-Mile Buffer- AADT- Type – Interstate, US Route, State	 <ul style="list-style-type: none">• Most Recent Land Use:<ul style="list-style-type: none">- Industrial- Commercial- Institutional- Residential – High, Medium, low density	 <ul style="list-style-type: none">• MDE Socioeconomic EJ Score• Justice 40• Historical Disadvantaged Communities• Designated Rural Area• CDC SVI Household Composition• CDC SVI Housing Type & Transportation	 <ul style="list-style-type: none">• 2020 Local Government Survey<ul style="list-style-type: none">- Preferred & Optimal Locations• ZEVIP Survey<ul style="list-style-type: none">- Optimal Locations	 <ul style="list-style-type: none">• Transit Oriented Developments• Priority Funding Areas• Intermodal Facilities• Substations• Bike Lanes• Transit Stops• Registered EVs

Other Considerations

- Innovations
 - Solar
 - Storage
 - Mobile Charging
- Cost
 - More than 20% Match
- Amenities
 - Restrooms
 - Food/Dining/Retail
 - Lighting
 - Other Services
- Supports community charging & greater deployment efforts



Fully solar-powered EV charging station deployed for CALtrans.

Contact Information



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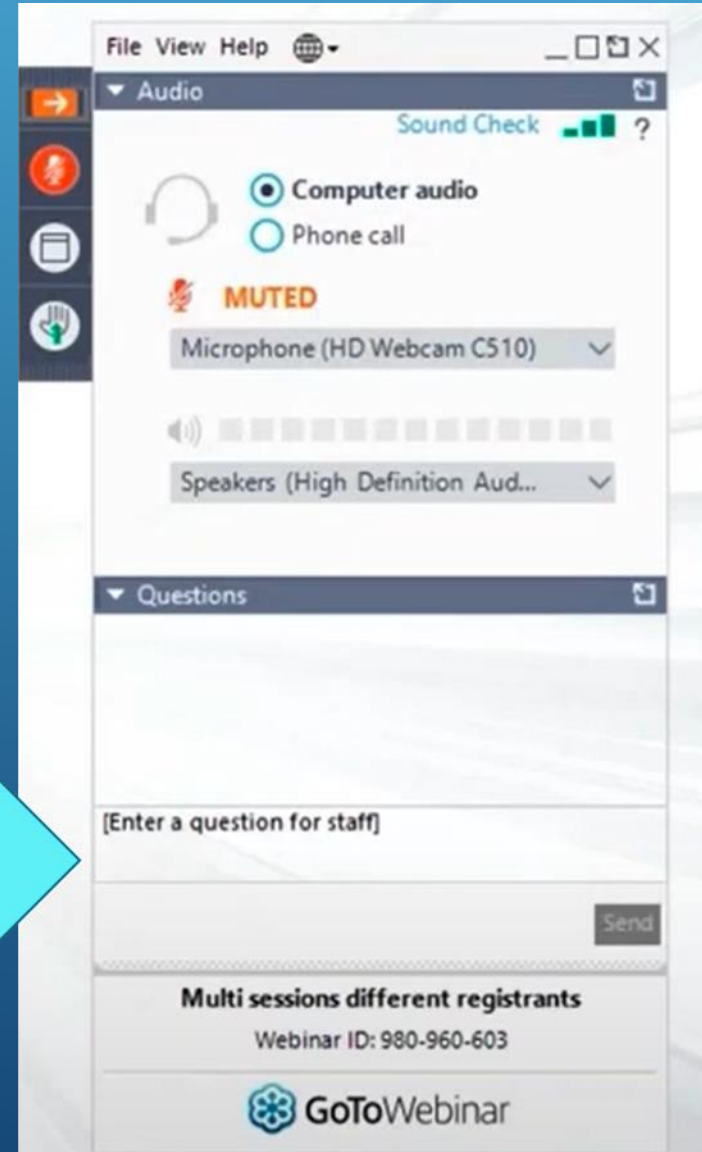
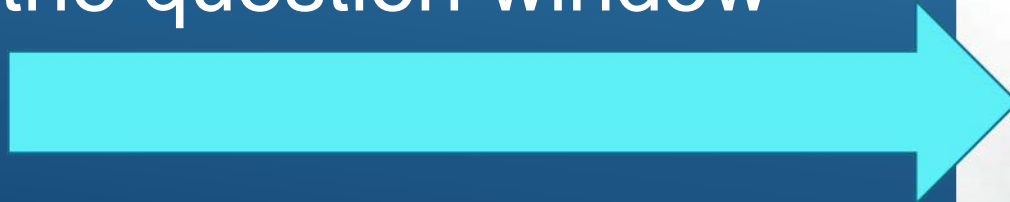


Resources

- ZEVIP Webpage
 - <https://evplan.mdot.maryland.gov/>
- MetroQuest Survey
 - <https://metroquestsurvey.com/az1f1d>
- NEVI Formula Program Guidance
 - https://www.fhwa.dot.gov/environment/alternative_fuel_corridors/nominations/90d_nevi_formula_program_guidance.pdf
- Drive Electric
 - <https://driveelectricus.com/>

Questions?

Please type your questions
in the question window



Thank You!

Contact Details:

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