



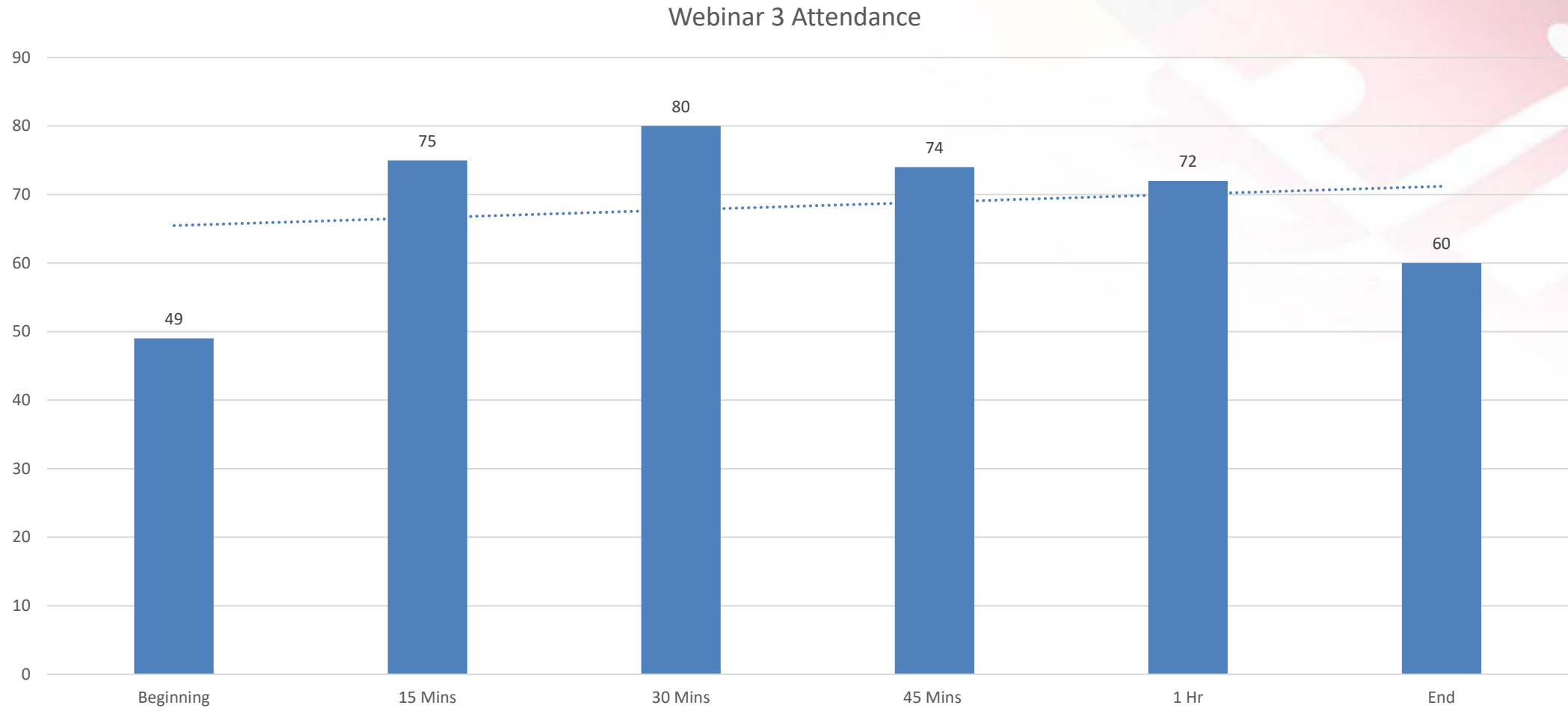
# MARYLAND

## Zero Emission Vehicle Infrastructure Plan (ZEVIP)

Webinar #3  
June 10, 2022

# Welcome

# Meeting Attendance



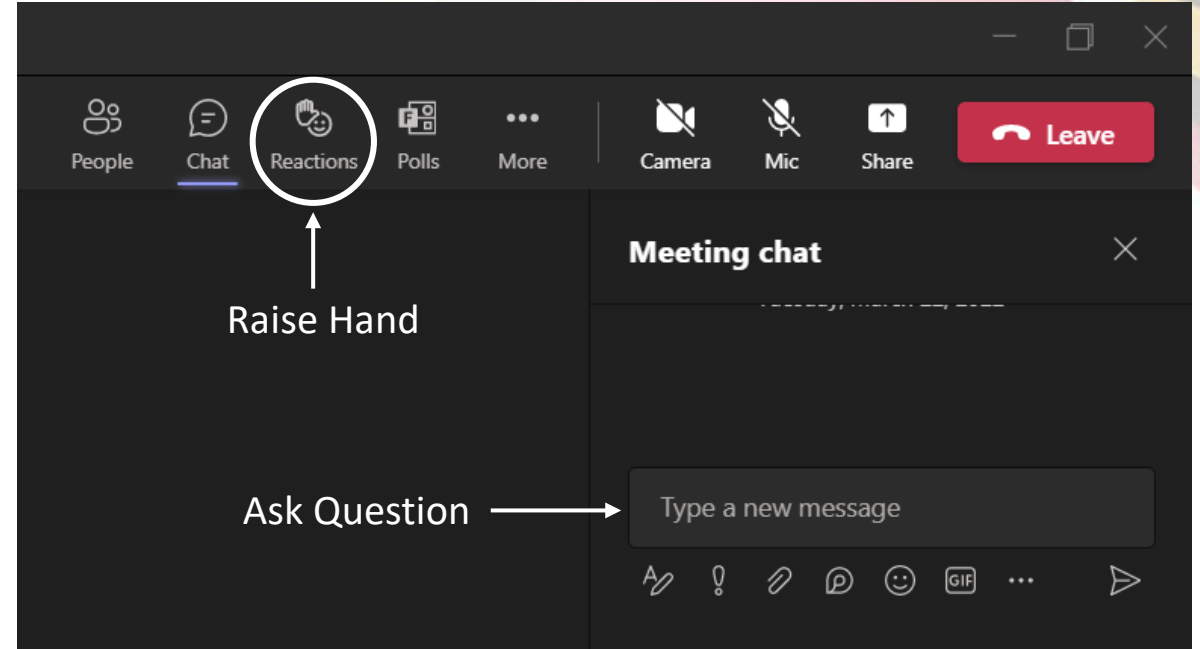
# Housekeeping

## General:

- This meeting is being recorded
- Slides and polling results will be made available on the ZEVIP website within 1 week

## Comments/Questions:

- Comment or ask questions in the chat box
- Raise Hand during Q&A Session



## Tech difficulties:

- Contact us via [EVPlan@mdot.Maryland.gov](mailto:EVPlan@mdot.Maryland.gov)

# Agenda

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- Introductions
- Opening Remarks
- Maryland Policy History
- NEVI Overview
- Public Engagement and Stakeholder Summary to Date
- Maryland ZEVIP Planning Toolkit
- Open Q&A

# Introductions

- R. Earl Lewis, Deputy Secretary, Maryland Department of Transportation
- Dan Janousek, Maryland Department of Transportation
- Rebecca Bankard, Maryland Department of Transportation/Michael Baker International
- Colleen Turner, Michael Baker International

# Opening Remarks

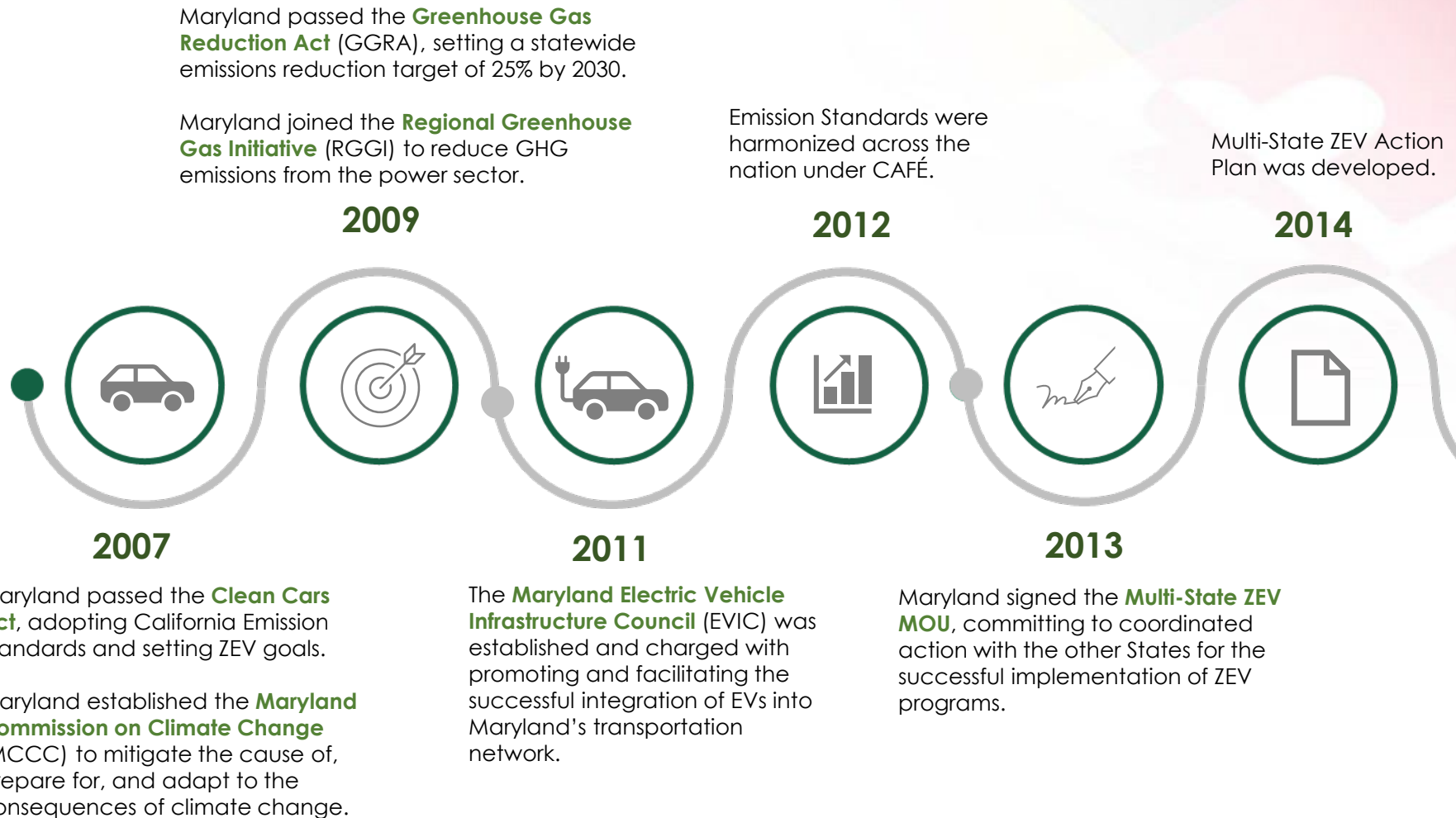
➤ R. Earl Lewis, Deputy Secretary, Maryland Department of Transportation

# Maryland Policy History

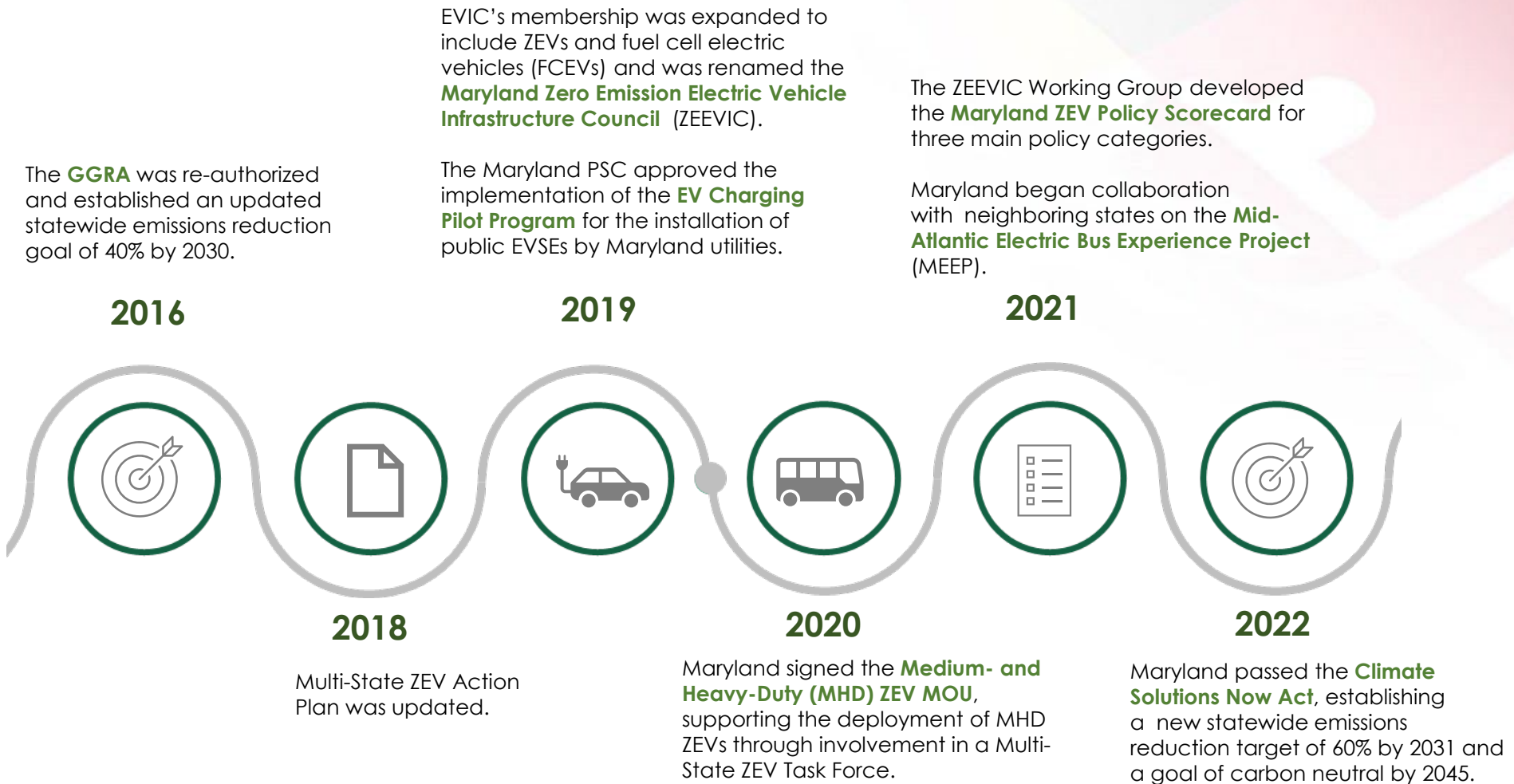
➤ R. Earl Lewis, Deputy Secretary, Maryland Department of Transportation



# Maryland Policy and ZEV Timeline



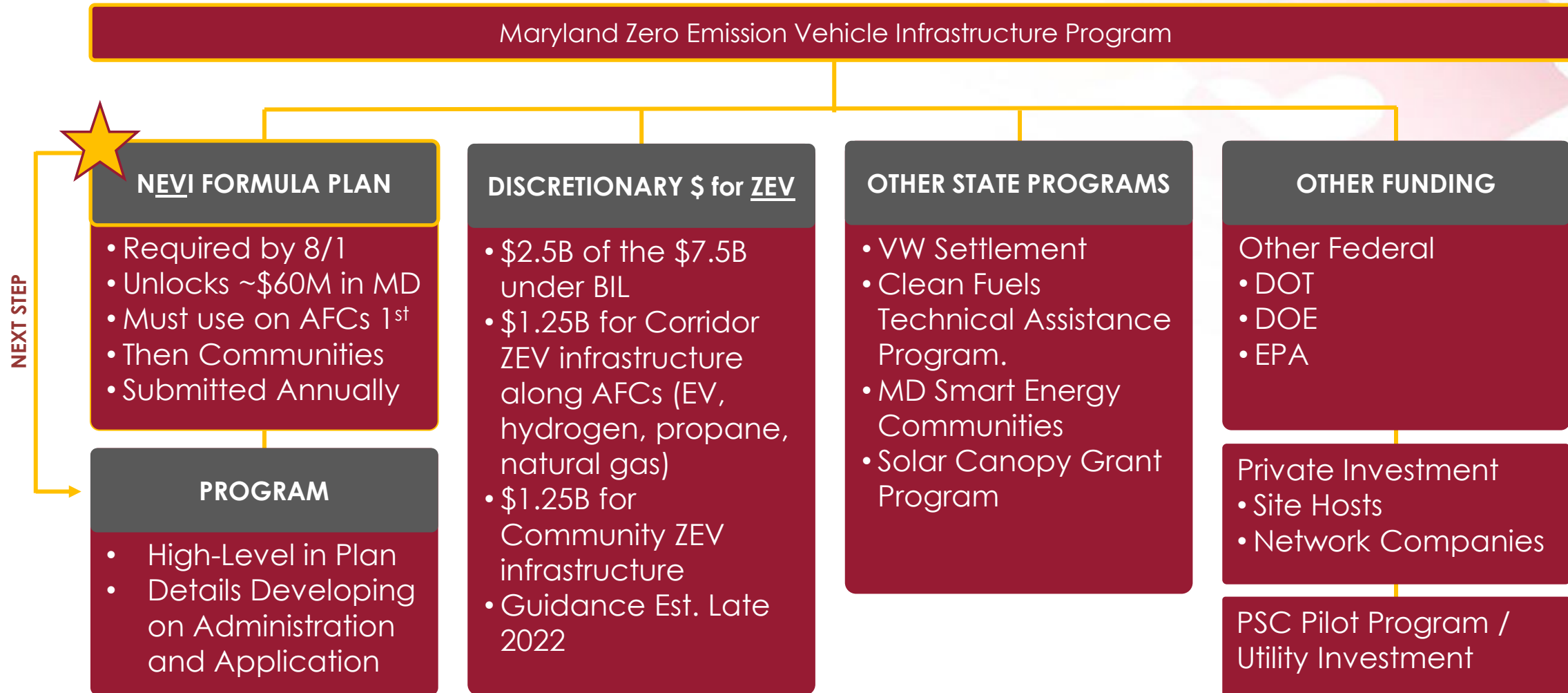
# Maryland Policy and ZEV Timeline



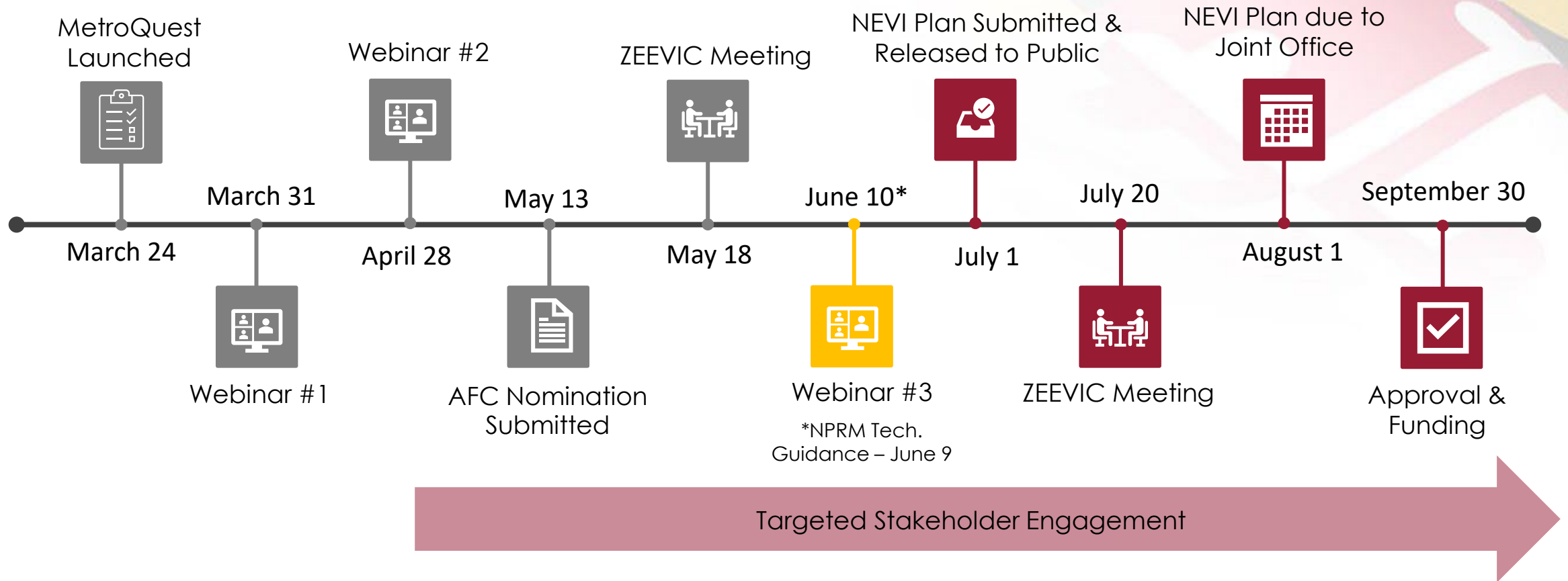
# NEVI Overview

➤ Dan Janousek, Maryland Department of Transportation

# What are ZEVIP and NEVI?



# NEVI Schedule (Subject to Change)

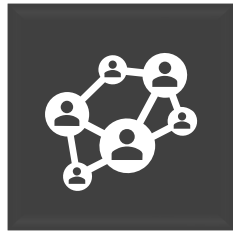


# NEVI Plan Components

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Introduction



State Agency  
Coordination



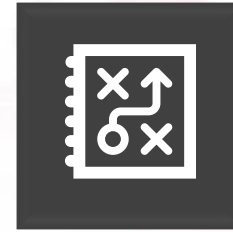
Public  
Engagement



Plan Vision &  
Goals



Contracting



Existing &  
Future  
Conditions



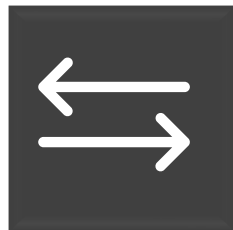
EVSE  
Deployment



Implementation



Civil Rights



Equity  
Considerations



Labor &  
Workplace  
Considerations



Cybersecurity



Program  
Evaluation



Discretionary  
Exceptions

# Plan Vision and Goals

To continue leading the nation and strengthening our communities by providing equitable, reliable, and safe transportation electrification solutions.





# Risks & Challenges

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Supply Chain

Grid Capacity

Other Alternative Fuels

Public Education

Emergency Management

Innovations

Funding

Workforce Development

ADA Accessibility



# Public Engagement and Stakeholder Summary to Date

➤ Rebecca Bankard, Maryland Department of Transportation / Michael Baker

# Engagement & Outreach

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**Utilities**



**Network  
Companies**  
[EV Charging Manufacturers]



**Disadvantaged  
Communities**



**OEM's /  
Automakers**



**Planning  
Partners**



**Potential Site  
Hosts**

# Outreach To Date

- Website

- 1,228 Page Views | 648 Unique Visitors
- Maryland EV | ZEEVIC StoryMap | Maryland EV Journey

- MetroQuest Survey

- 293 Participants

- Webinars

- 3 Webinars
- ~ 300 Participants
- All Webinar Polling Summarized on ZEVIP Website

- Presentations

- ZEEVIC | Commuter Choice Maryland

Maryland ZEVIP Stakeholder Survey [More at: https://evzplan.mdot.maryland.gov/](https://evzplan.mdot.maryland.gov/)

1 Introduction | 2 GOAL RATING | 3 PRIORITIZATION | 4 MAPPING | 5 WRAP UP

**Introduction**  
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. The plan will be developed and made available to the public for comment.

Please take a moment to answer some questions that will help shape Maryland's EV infrastructure plan.

Next

OVERVIEW RESOURCES STAY ENGAGED

Maryland Zero Emission Vehicle Infrastructure Plan

Stay Engaged

Share Your Comments

First Name Last Name

Email Address Phone

Message

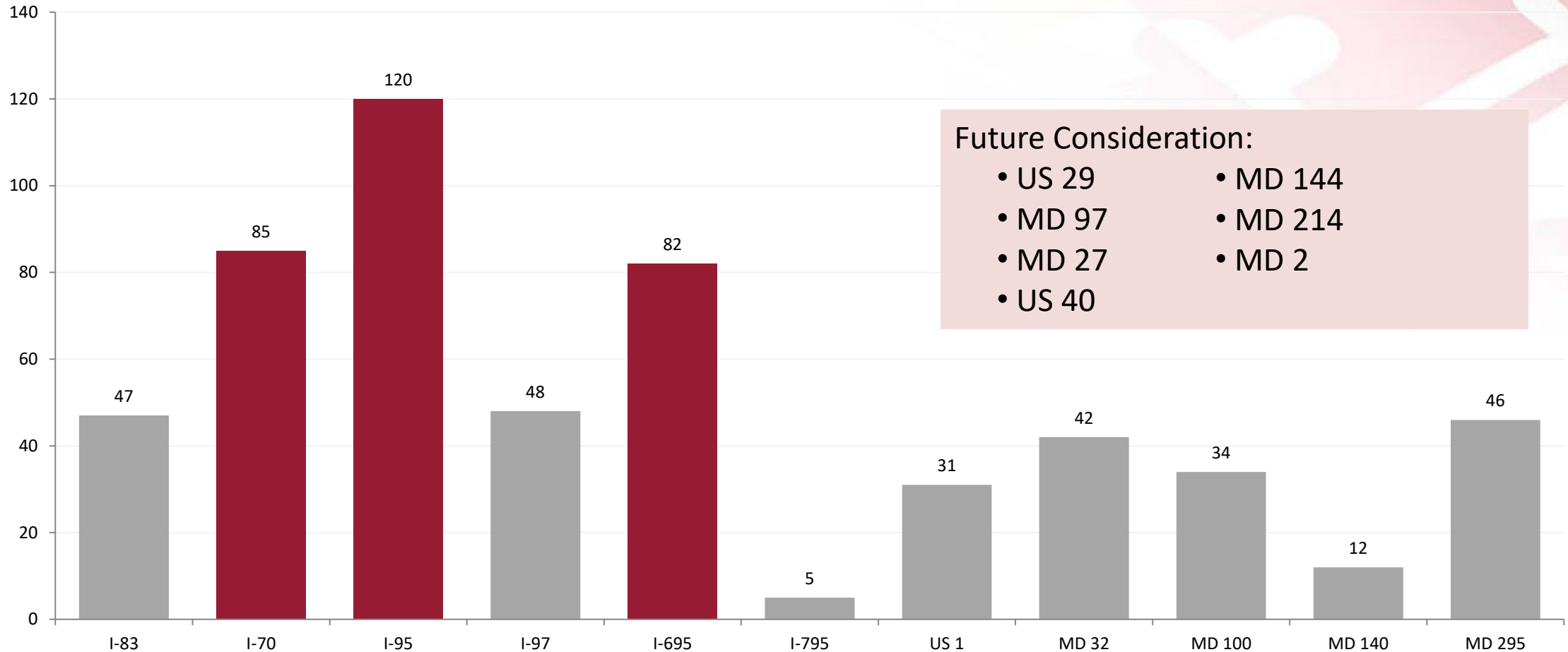
14 + 5 = Submit

# Continuing Outreach

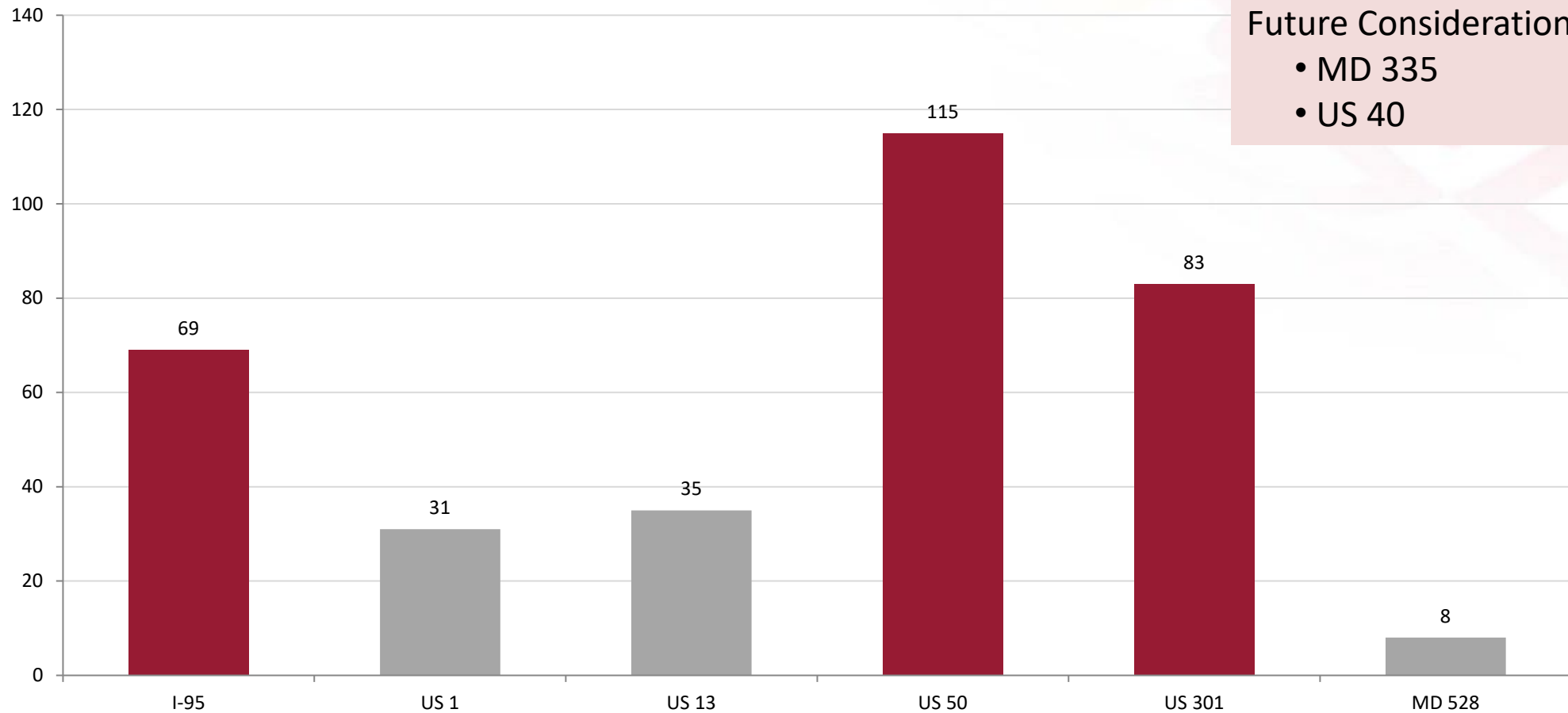
- Public Feedback
  - ZEEVIP Website | ZEVIP Toolkit | NEVI Plan | Program
- Maryland ZEVIP Planning Toolkit
  - Maryland Location-Based Overview
  - Maryland Site Information Tool
  - Corridor & Community Charging
- Targeted Stakeholder Outreach
- ZEEVIC Outreach Activities
  - 3 Planned Events
    - Baltimore Washington One Carnival | Washington County Fair | Wicomico County Fair
  - 25 Past Events
    - 7,370 Touchpoints | 2 Languages



# AFC Prioritization – Baltimore Region

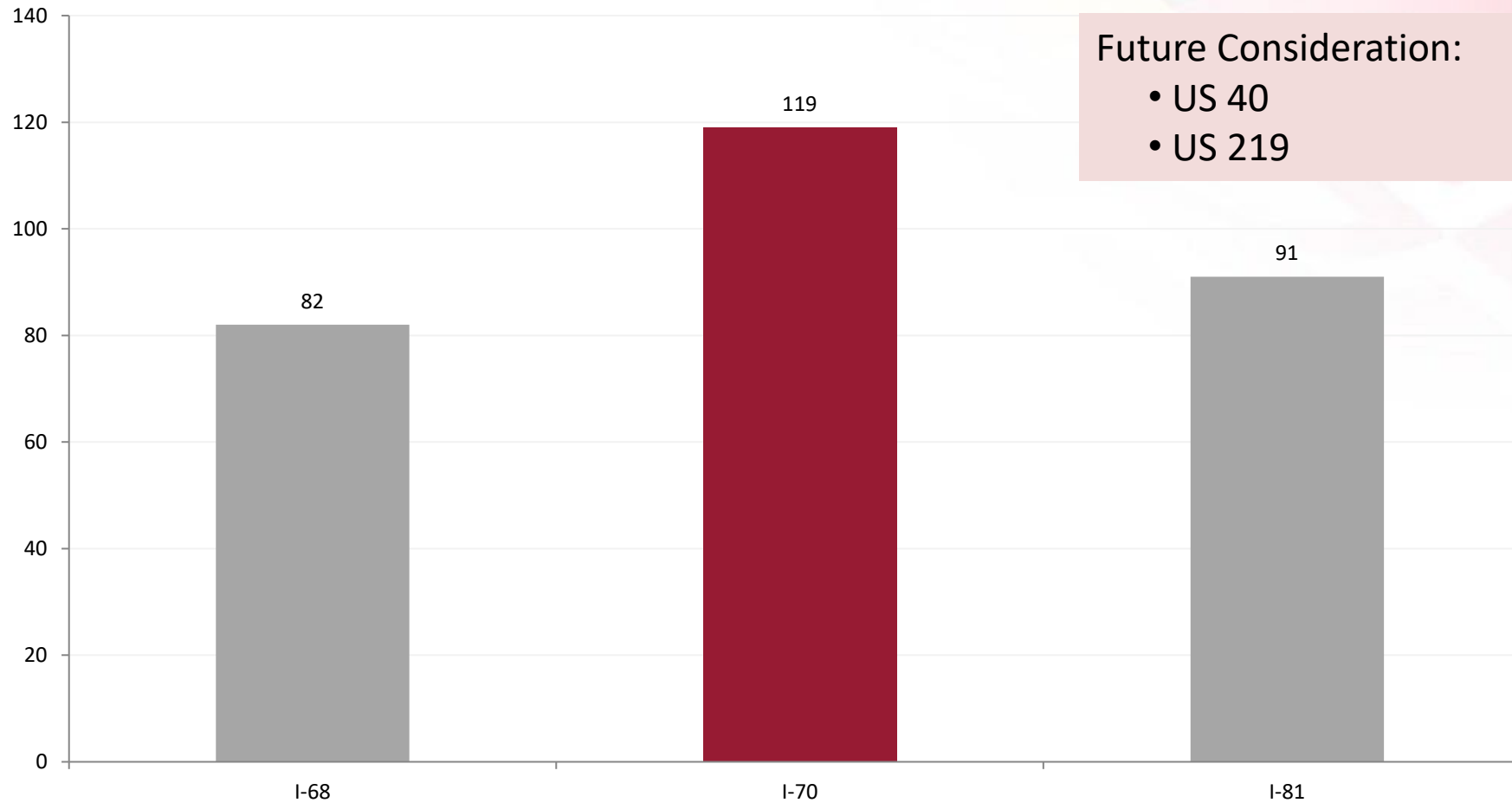


# AFC Prioritization – Eastern Shore



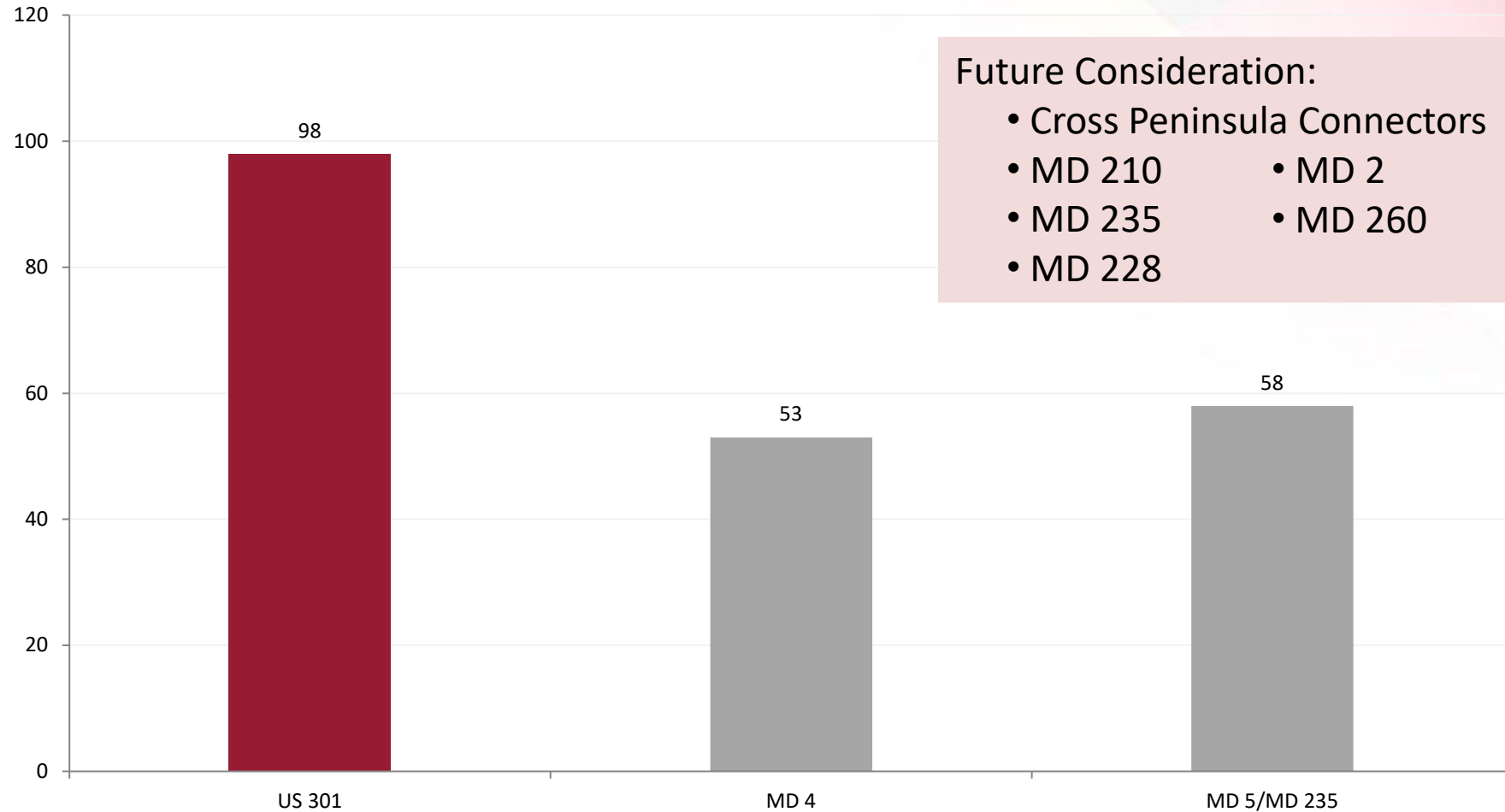
# AFC Prioritization – Western Maryland

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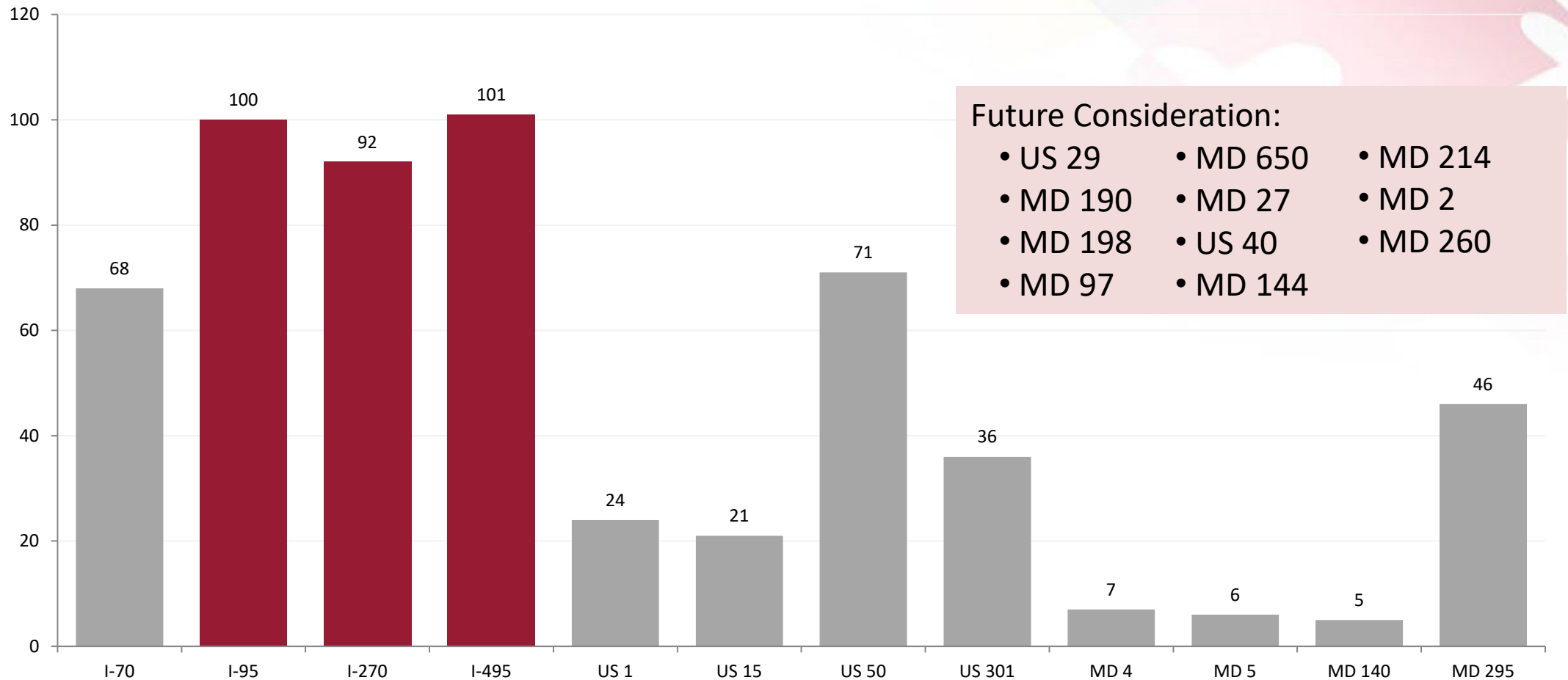


# AFC Prioritization – Southern Maryland

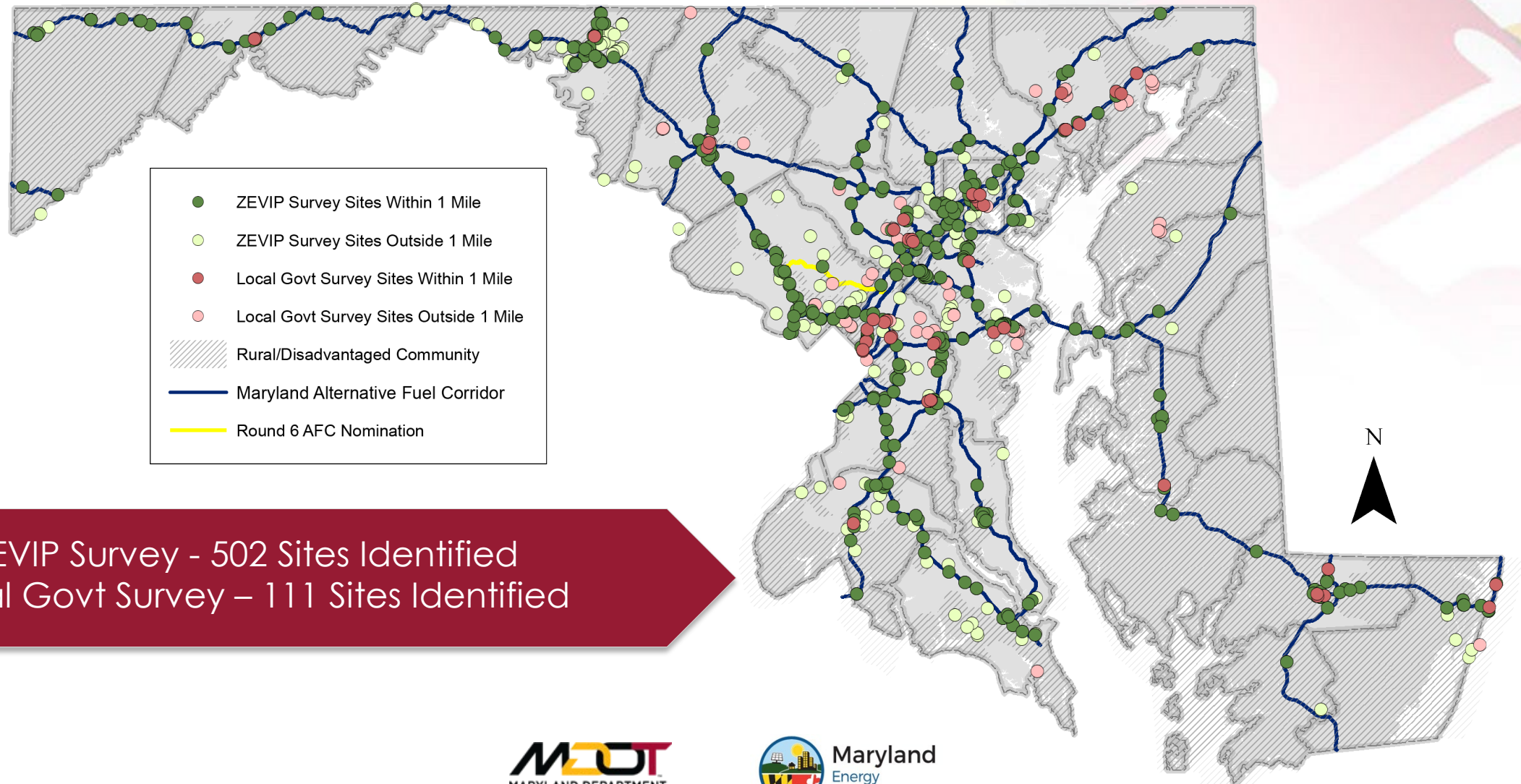




# AFC Prioritization – Washington DC Region



# Identified Potential Sites



# Maryland ZEVIP Planning Toolkit

➤ Colleen Turner, Michael Baker International

# Objective Driven Scoring Criteria

Environmental Justice	
Layer Name	Score
Overall Score (UMD/MDE -EJSCREEN)	
Top 90th Percentile	4
76th-89th Percentile	3
51th-75th Percentile	2
>50th Percentile	0
Designated Rural Area	
Yes	3
No	0
Justice 40	
Yes	1
No	0
Historical Disadvantage Communities	
Yes	1
No	0
Overall Score (CDC SVI)	
> 0.75	1
< 0.75	0
Overall EJ Score	
Multiplier	x2

Summary Information	
1. Is the tract within an EV AFC	
2. Total EV Stations within Tract	

Land Use/Overlays	
Layer Name	Score
Transit Oriented Developments	
Yes	2
No	0
Priority Funding Area	
Yes	1
No	0
Critical Area	
Not within Critical Area	1
Within Critical Area	0
Maryland Sustainable Communities	
Yes	1
No	0
Maryland Targeted Areas	
Yes	1
No	0
Land Uses - 2010	
High Density Residential	4
Medium Density Residential	2
Low/Very Low Density Residential	1
Commercial	4
Institutional	3
Industrial	2

Electric Vehicles/Existing Infrastructure	
Layer Name	Score
DC Fast w/150kW	
Yes	2
No	0
DC Fast	
Yes	1
No	0
Density of EV Owners	
>150	2
<150	0
Optimal Stations (Gov. Survey)	
Yes	1
No	0
ZEVIP MetroQuest Survey (within Census Tract)	
5-8 Selected Locations	2
1-4 Selected Locations	1
0 Selected Locations	0
EV Stations within Census Tract	
12-41 EV Stations	2
1-11 EV Stations	1
0 EV Stations	0

Transportation	
Layer Name	Score
Distance to Highway	
Within 1 Mile Buffer	10
>1 Mile Buffer	0
Interstate	
Yes	3
No	0
US Route	
Yes	2
No	0
State Route	
Yes	1
No	0
VMT/AADT	
Rank 1	2
Rank 2-4	1
Rank 5	0

\*Scoring breakdowns may be abbreviated\*



# Maryland Site Information Tool

## Maryland Site Information Tool

Find address or place

00.1 mi1

NEVI Information by Census Tract

Use the **Search Bar** to obtain a Maryland NEVI Score.

If you place your cursor in the search bar, a drop-down will appear to use your current location. You can also click anywhere on the map to choose a specific location.

Additionally, there is a location radius between zero to one mile. You can change the radius by sliding the blue circle to your desired radius.

Once you select a location, your results will be summarized directly below the radius line. You can export your results by clicking the PDF icon. If this button does not work in a specific browser, it should work by **opening the content in a new tab**. You can do so by clicking the square with the arrow in the top right-hand corner of the map.

There are five buttons on the right-hand side of the map. A detailed list is shown below.

The **Home Button** will clear any current searches and the map to any searches occurred.

The **Plus** and **Minus** allow you to zoom in and out of the map.

The **Legend** summarizes map colors and pins as they relate to details.

**Find My Location** will automatically select and highlight your current location.

**DISCLAIMER:** This tool serves as a guide to help pinpoint potential charging locations. Your score does not guarantee funding for a charging location. In addition, lower scores do not mean that funding is not possible.



# Critical Considerations – Outside Current GIS

- Resiliency
  - Floodplain
- Amenities
  - Restrooms | Food/Dining/Retail | Lighting | Other Services
- Utility Providers / Grid Capacity
- Innovations
  - Solar | Storage | Mobile Charging
- Cost
  - Competitive Pricing
  - Matching Considerations
- Supports greater deployment efforts
  - Corridor AND Community Charging



Fully solar-powered EV charging station deployed for CALtrans.

# Question & Answer

- Dan Janousek, Maryland Department of Transportation
- Type question in chat box
- Raise hand

# Question & Answers

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Q1: Does your site data set also include state sites within that 1 Mile of a corridor? (Courthouses, parks, etc.)

A1: A Maryland Land Use (2010) layer was included in the toolkit. That layer contains information on institutional land uses, e.g., courthouses, parks, and state sites as part of the data set.

Q2: Do any of your layers use the ANL EV Charging Justice40 Mapping Tool? If not, is that something that can be added?

A2: Yes. The Justice40 mapping tool is included as a layer within the data for the Environmental Justice Category along with the following layers: UMD/MDE-EJSCREEN, CDC Social Vulnerability Index, US DOT Historically Disadvantaged Communities, and Maryland Rural Areas.



# Question & Answers

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Q3: Can a link be provided for the tool?

A3: The tool is still in Beta (draft) and will be released around the same time as the ZEVIP Draft. A Web Blast will also be released to notify respondents of the release.

Q4: Do you anticipate updates to the draft scoring rubric for project selection now that the 2nd round of NEVI guidance has been released by FHWA?

A4: The document will be reviewed, and the scoring will reflect the updates to the NEVI guidance.

Q5: Can you share the presentation from today?

A5: The presentation will be shared on the [EV Plan Website](#).

# Question & Answers

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- Q6: Could you please talk about what MDOT means about mobile charging? Is that having chargers on a truck platform? If so, how does that play into ADA?
- A6: Mobile charging refers to systems that can charge vehicles away from static or installed charging locations and is useful for emergency management and preparedness. ADA is an important component of the NEVI plan and will be addressed.
- Q7: Can you talk a little about what the process looks like for local jurisdictions to work with the state to identify specific sites and plan projects?
- A7: The details are still under development. Generally, MDOT plans to advertise the program and will make resources such as contacts, tools, and applications available on the Maryland ZEVIP website. Local approvals, zoning, and grid capacity will have to be addressed.

# Question & Answers

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- Q8: Can you also share a little more on the process for disbursing NEVI Funds?
- A8: The program has not been finalized yet. Public and Private entities should both be able to apply and propose site locations within the state and these applications will be compared to other applications that are within the state.
- Q9: Has any consideration been given to the necessary network cyber security specification for the charging stations?
- A9: This is currently being considered and there will be a more in-depth explanation within the NEVI Plan.

# Question & Answers

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Q10: This is higher weight for areas with more EVs currently? Doesn't that conflict with disadvantaged communities?

A10: There is a layer of the toolkit that includes some consideration of existing EV registration and charging infrastructure. This layer also includes consideration of desired charging locations obtained through our surveys. This information does not carry as much weight as the rural and disadvantaged communities layer and does not adversely impact the outcomes for rural and disadvantaged communities.

Q11: Is the survey (Metro Quest Survey) still open?

A11: Yes. The survey can be [found here](#).

# Contact Information

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**Mike Jones**

Maryland Energy Administration

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# Additional Resources

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- ZEVIP Website:
  - [Evplan.mdod.Maryland.gov](http://Evplan.mdod.Maryland.gov)
- Questions or Comments:
  - Email: [Evplan@mdod.Maryland.gov](mailto:Evplan@mdod.Maryland.gov)

Thank you!