



Maryland National Electric Vehicle Infrastructure Webinar

June 2024



Welcome & Introductions

Deron Lovaas, Chief of Environmental & Sustainable Transportation Program Amanda Hinh, NEVI Program Manager
Colleen Turner, Michael Baker International
Rebecca Bankard, Michael Baker International



Housekeeping

General:

- This meeting is being recorded
- Slides & polling results will be available on EV
 Plan Website within 1 week

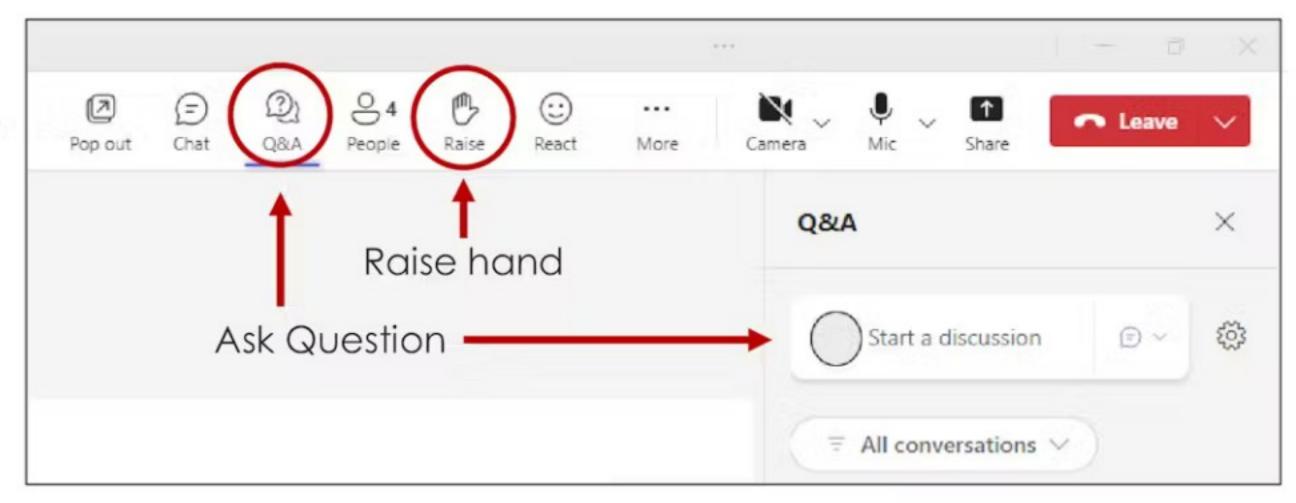
Comments/Questions:

- Ask question in Q&A box
- Raise hand to be unmuted

Polling:

Go to: Menti.com

Use Code: 52 93 941



For assistance with technical difficulties:

Contact us via: <u>EVPlan@mdot.Maryland.gov</u>



Agenda

- Introductions
- Opening Remarks
- Overview of Electric Vehicles & Charging with Interactive Polling
- Questions & Answers



Opening Remarks

Deron Lovaas, Chief of Environmental & Sustainable Transportation Program

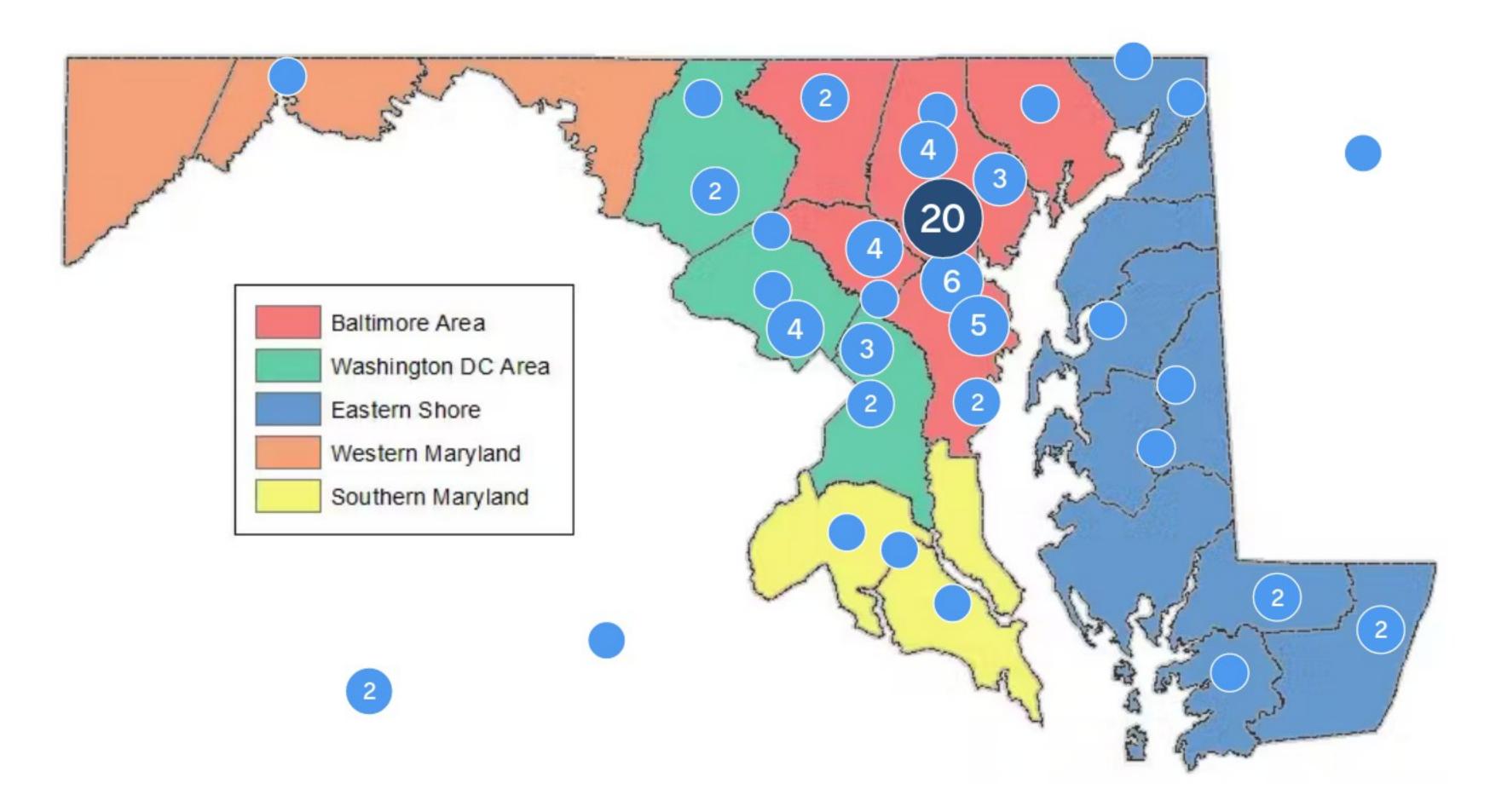


Polling

Mentimeter, Website, Code



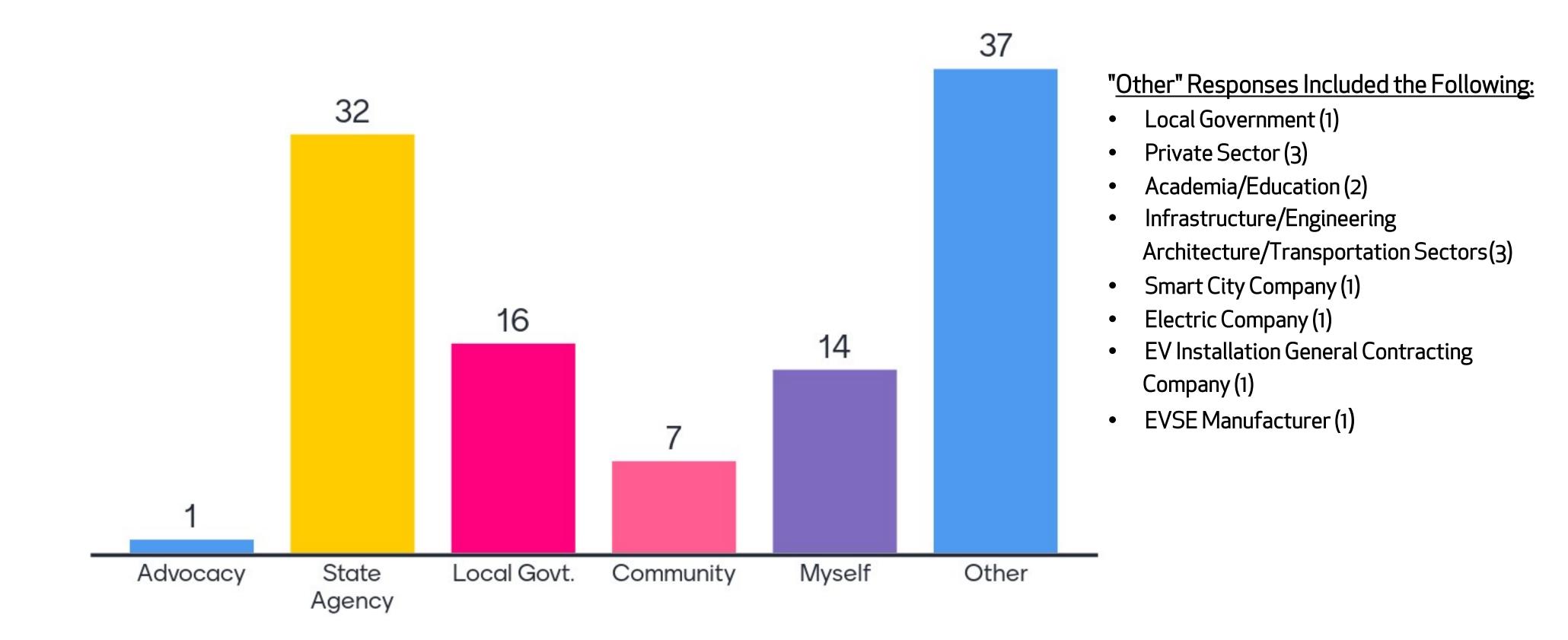
Where are you joining us from?





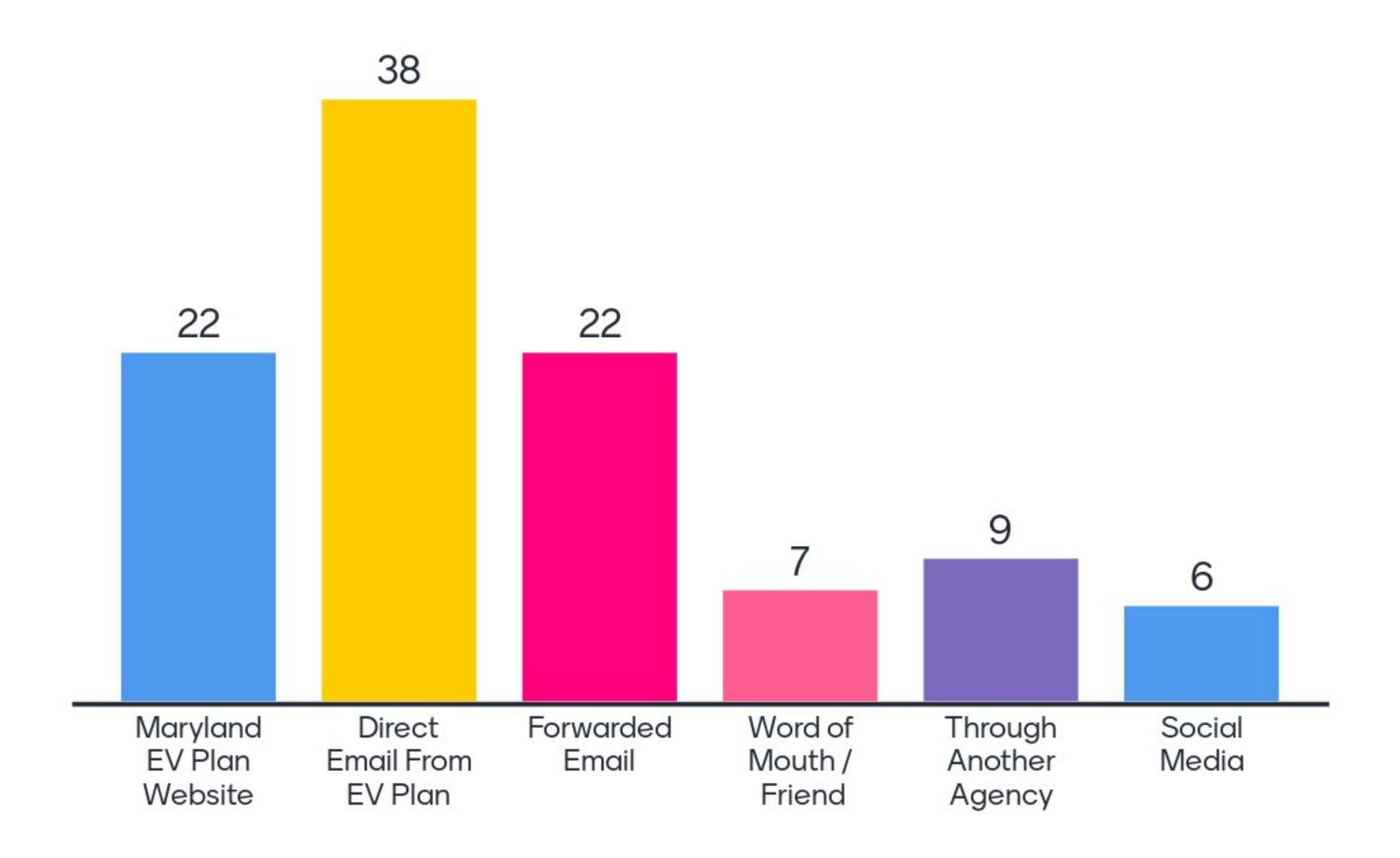


What org. or agency do you represent?





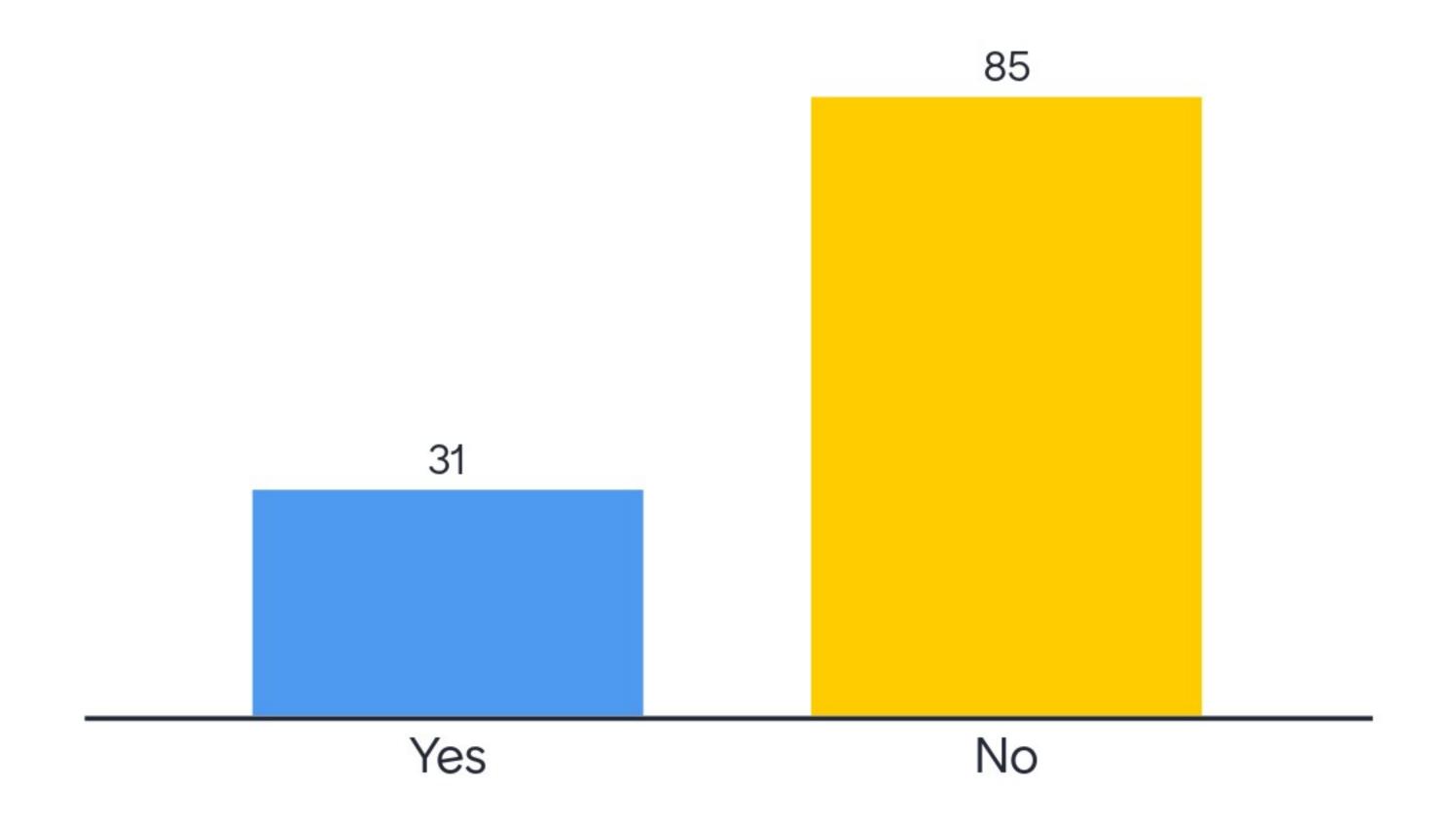
How did you hear about this webinar?





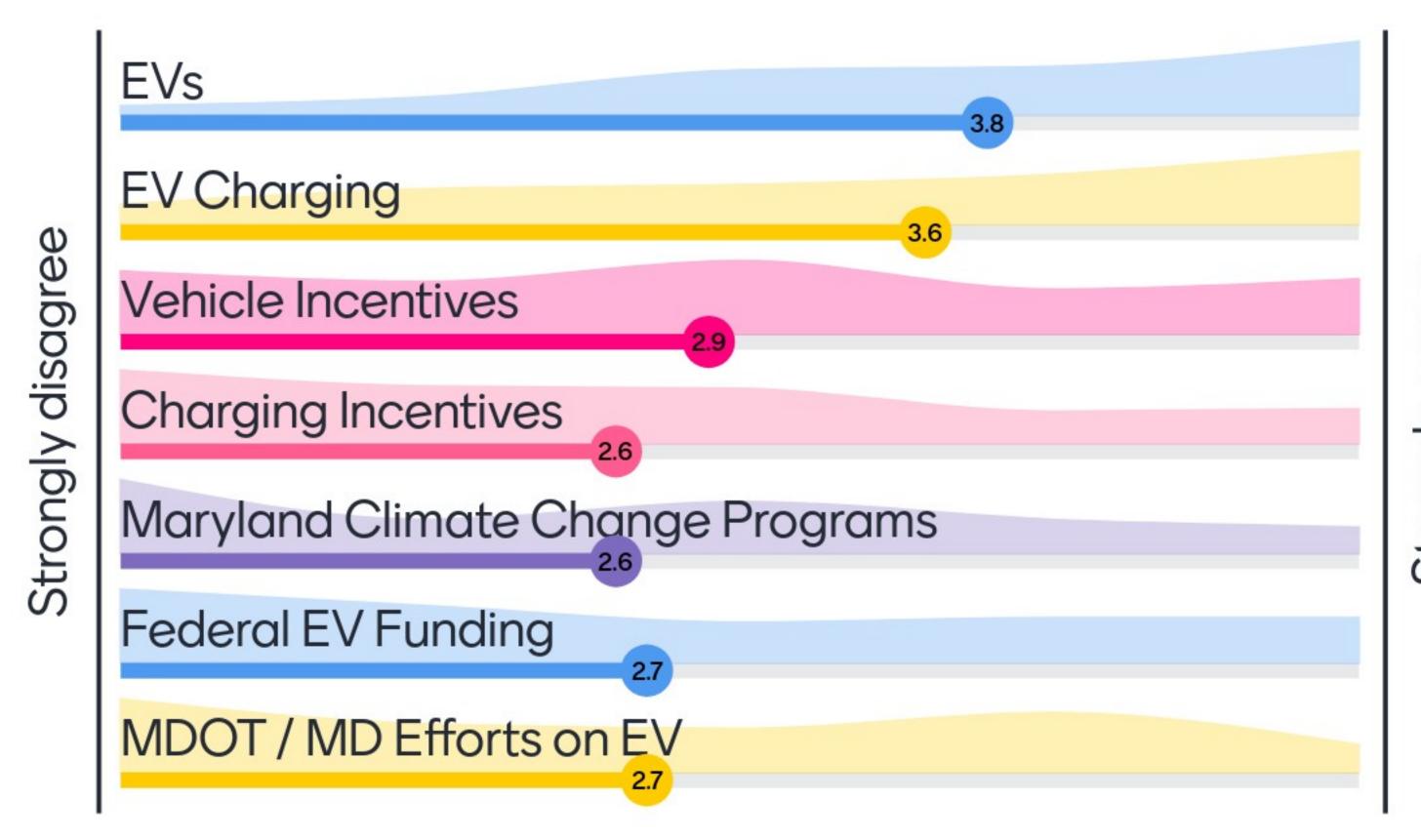


Do you own or regularly drive an EV?





I am very familiar with



Strongly agree

What do you like most about EVs?

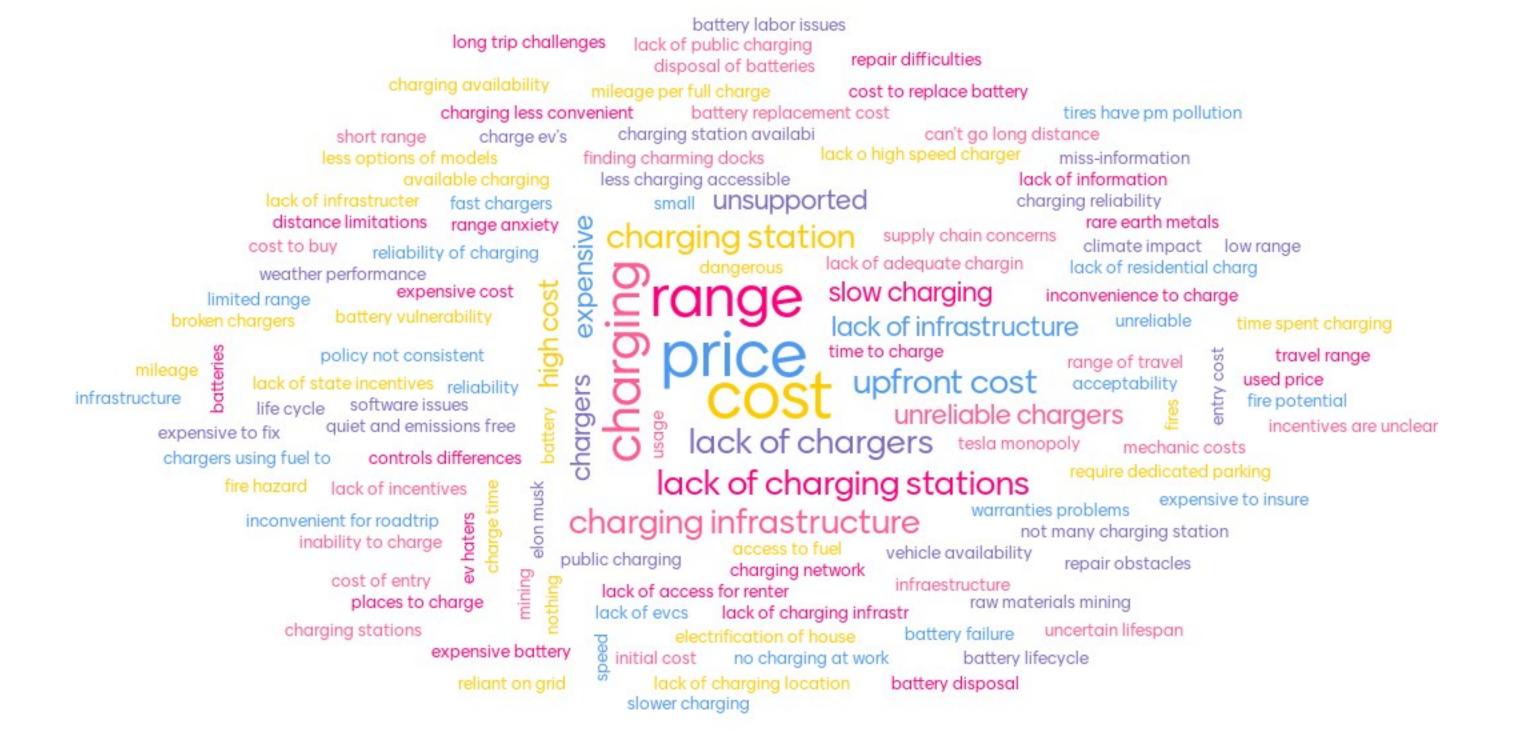
183 responses





What do you like least about EVs?

188 responses





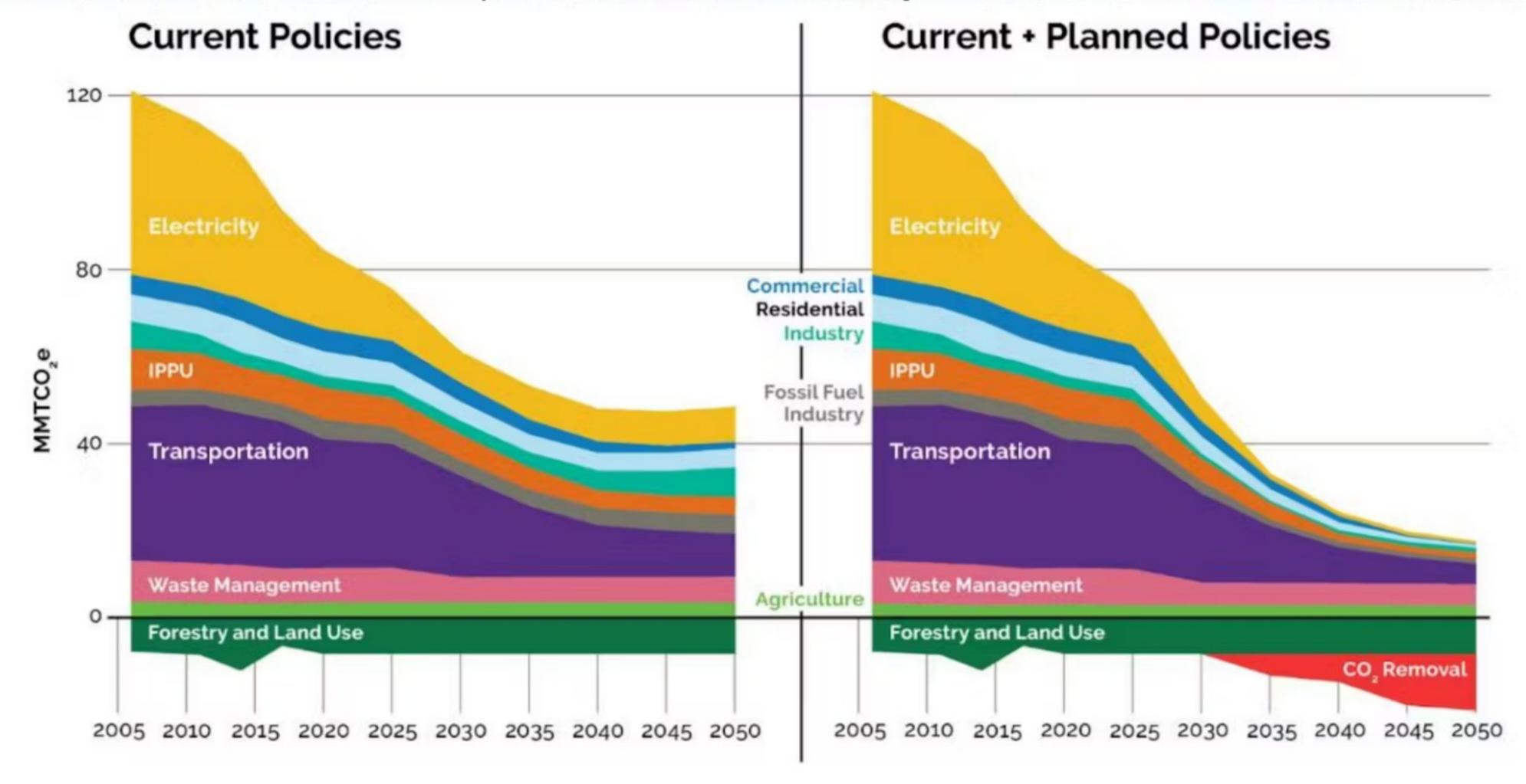


Background



Why Is Maryland Working On EVs?

Maryland's Statewide GHG Emissions and Sequestration Trends, Historical and Projected from 2006 to 2050 based on Current and New Policies

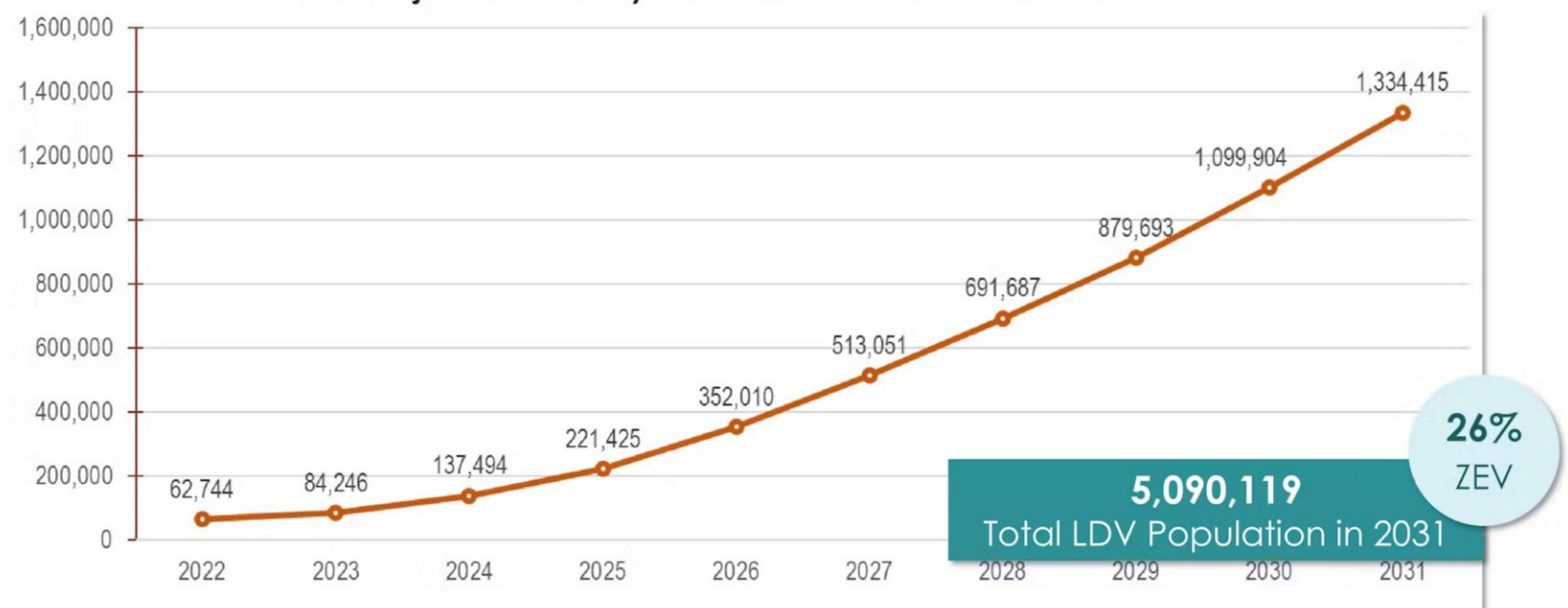


Climate Pollution Reduction under the Maryland Climate Solutions Now Act of 2022



Why Is Maryland Working On EVs?

EV Projections in Maryland Under Advanced Clean Cars II



ACC II (State Policy)

Requires 100% of new cars, light-duty trucks, and sport utility vehicles (SUVs) sold in Maryland to be ZEVs by 2035

IIJA (Federal Policy)

- NEVI \$5 Billion
- CFI \$2.5 Billion



Who Are The Key Agencies Involved?

Maryland Department of Transportation (MDOT)

- Vehicle electrification & charging infrastructure strategy
- Making transportation in Maryland more 'green'

Maryland Department of the Environment (MDE)

Regulations

Maryland Energy Administration (MEA)

Incentives







Maryland is leading by example:

- Transitioning fleet to EVs
- Deploying EVSEs at State sites



What Is MDOT Working On?

National Electric Vehicle Infrastructure (NEVI)

- Part of the larger national electrification effort & charging network
- Approximately \$60 million will be invested in Maryland
 - Round 1 RFP Closed April 10th

Electric Vehicle Charging Reliability Accessibility & Accelerator (EVCRAA)

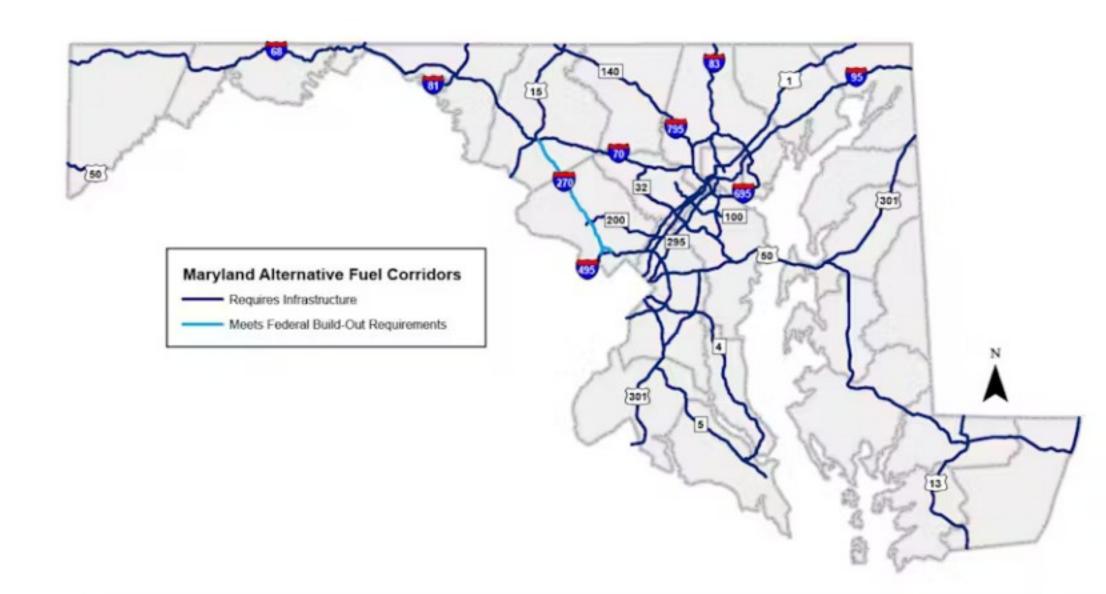
- Repair & replace existing public charging stations
 - Received \$4.36 million in Maryland

MarylandEV

Provide consumer awareness on EVs, charging, incentives

Zero Emission Electric Vehicle Infrastructure Council (ZEEVIC)

 Development of policies, recommendations, and incentives that increase of ZEV awareness



23 Designated EV
Alternative Fuel Corridors



Benefits



Electric Vehicles

Types of EVs

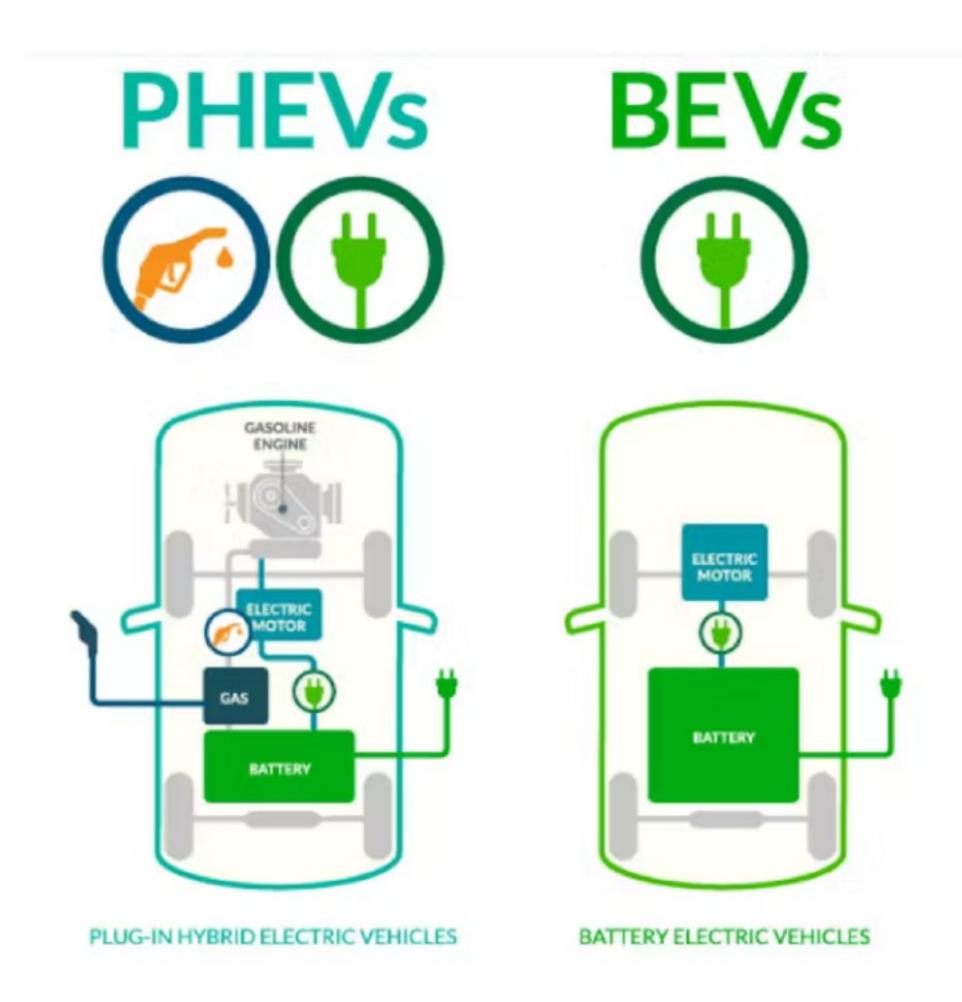
- Battery Electric Vehicle (BEV)
 - Zero-emission
- Plug-in Hybrid Electric Vehicles (PHEV)
 - Lower emission
 - Minimal range anxiety

Cost Savings

Lower maintenance and overall lifetime costs

Environmental & Health Benefits

- Lower GHG emissions
- Reduced air pollution





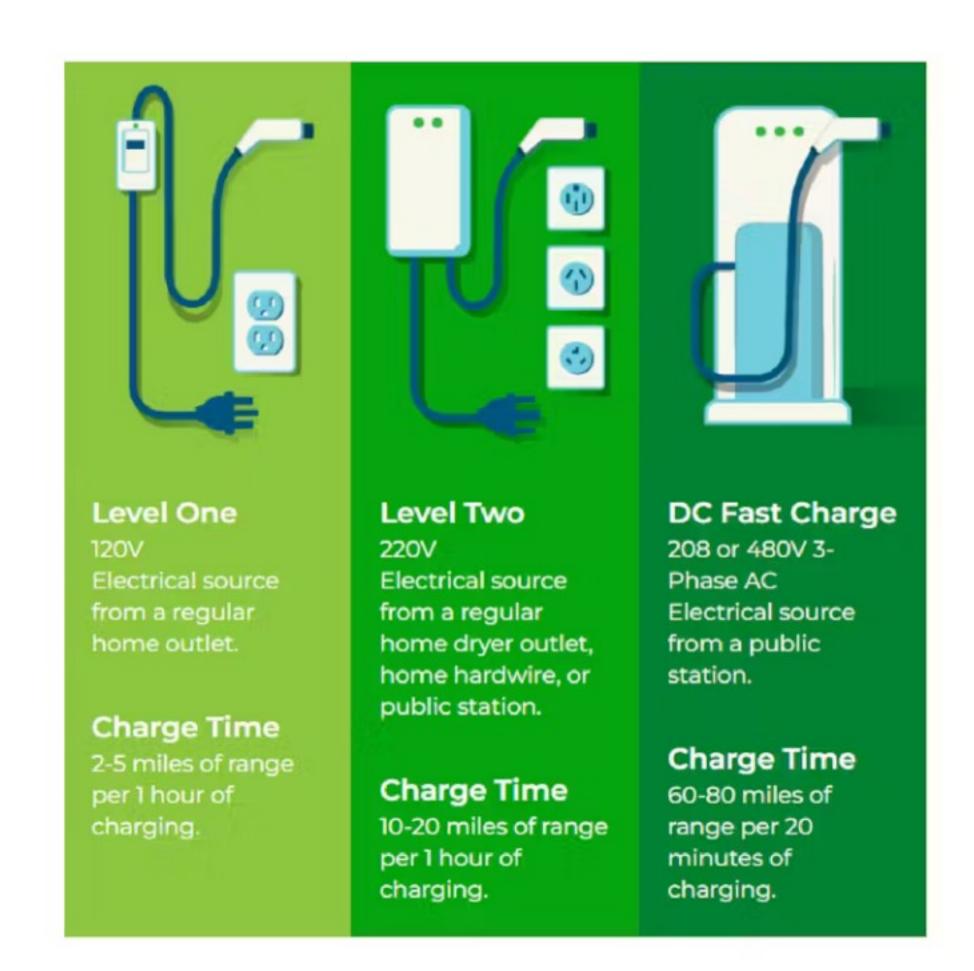
Charging Stations

Types of Charging Stations

- Level 1
 - Regular home outlet
- Level 2
 - Charge at home overnight or during work
- DC Fast
 - Provides 80% charge in 30 minutes

Interconnected Network of Charging

- Facilitates data collection, access, and reliability
- Chargers in BOTH community and along highways
- Reduced range anxiety





What Incentives Are Available?

MEA's EV Charging Rebate Program

- Rebate for 50% of eligible costs up to \$700 incurred acquiring and installing qualified charging stations
- FY 2024 Funding \$2.5 Million

MVA's Excise Tax Credit

- One-time excise tax credit up to \$3,000 for the purchase of a qualified ZE\
- Current FY funds have been depleted

Federal Tax Credit Program

- Tax credit up to \$7,500 for the purchase of a qualified new ZEV
- Tax credit up to \$1,000 for the cost of hardware and installation of charging stations

Utility

- Rebate Programs
- Time of Use Rate Plans

MDE-V MARYLAND EV

Incentives

See how much you can save by going electric!

There are many federal and state tax incentives, as well as state grants, vouchers and rebates, for the purchase of plug-in electric vehicles and electric vehicle supply equipment.



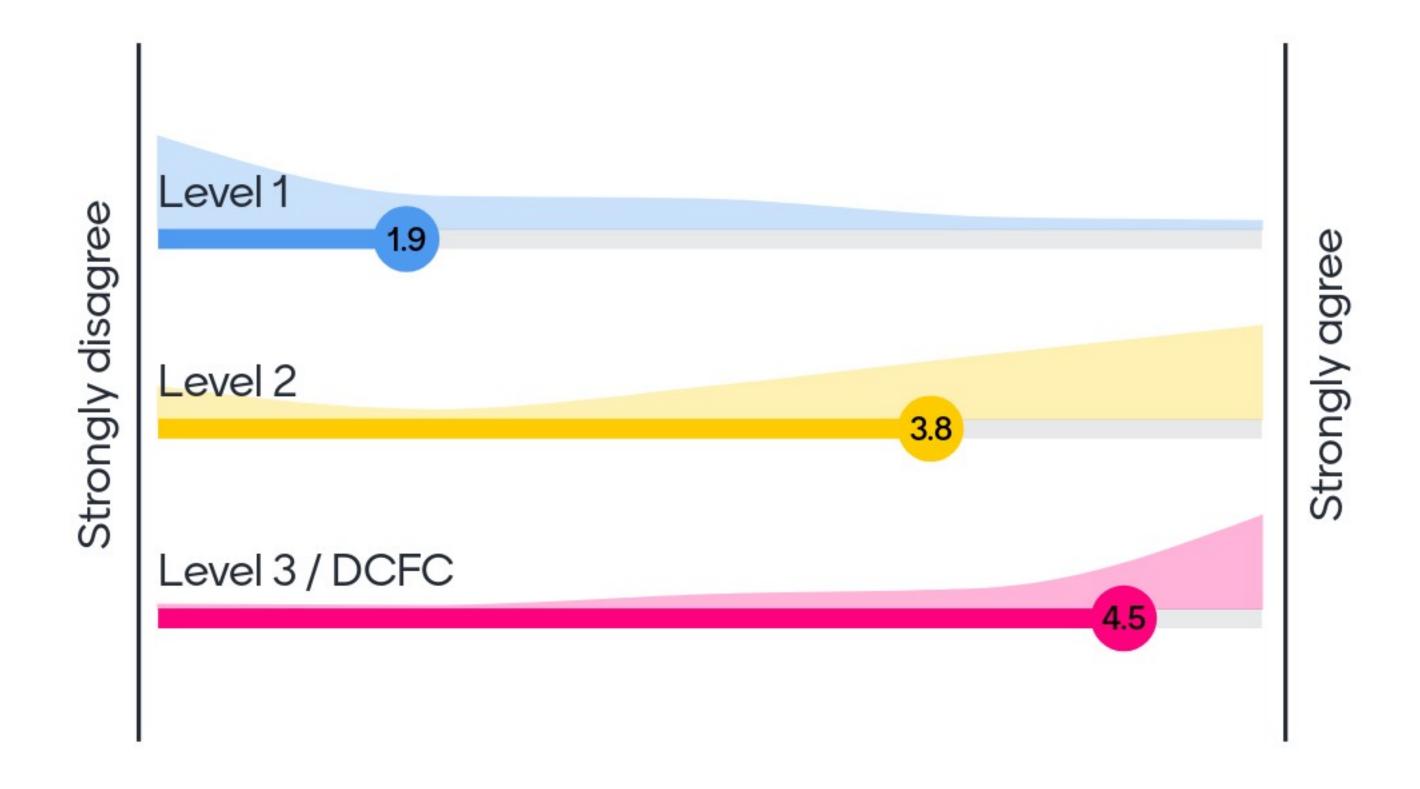




Visit MarylandEV.org for more information on incentives



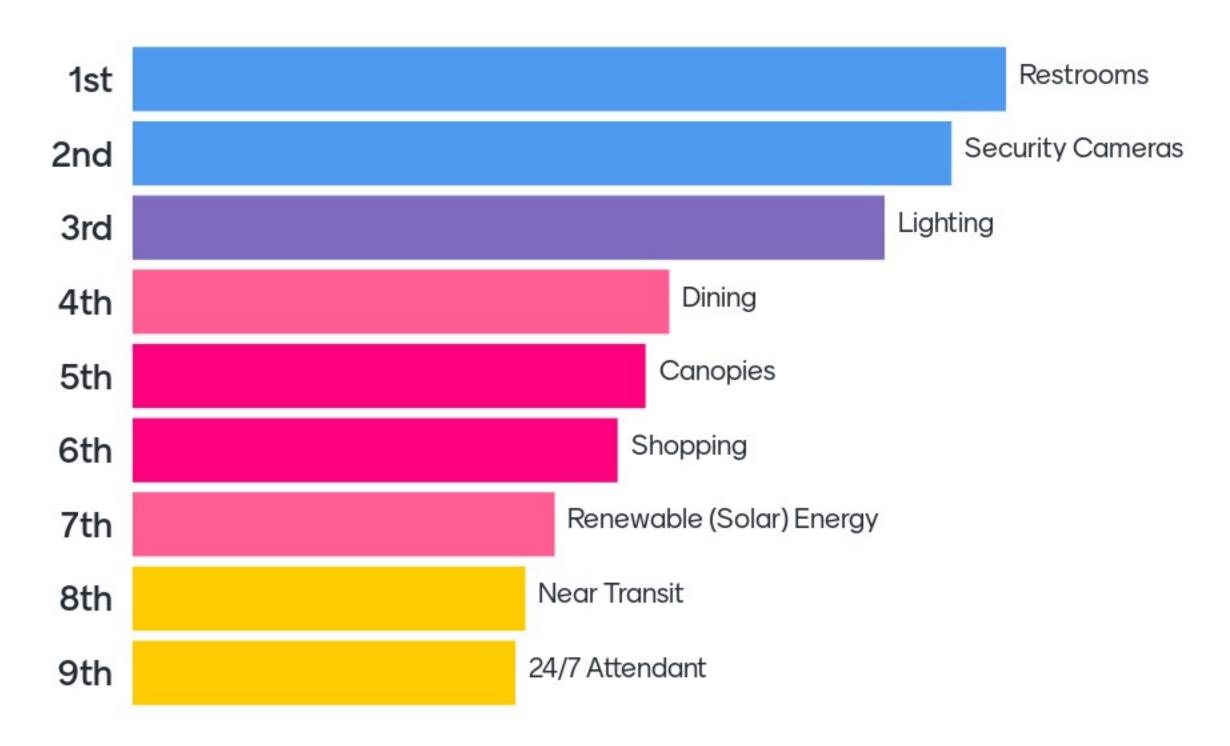
What level of charging do you think is needed most?



I think charging is best located at



What charging amenities are most important to you?



Other Comments Received Included:

- Air pumps to check/adjust the pressure in tires at some fast chargers.
- Squeegees at fast chargers!
 While the car is charging, it can use some maintenance!

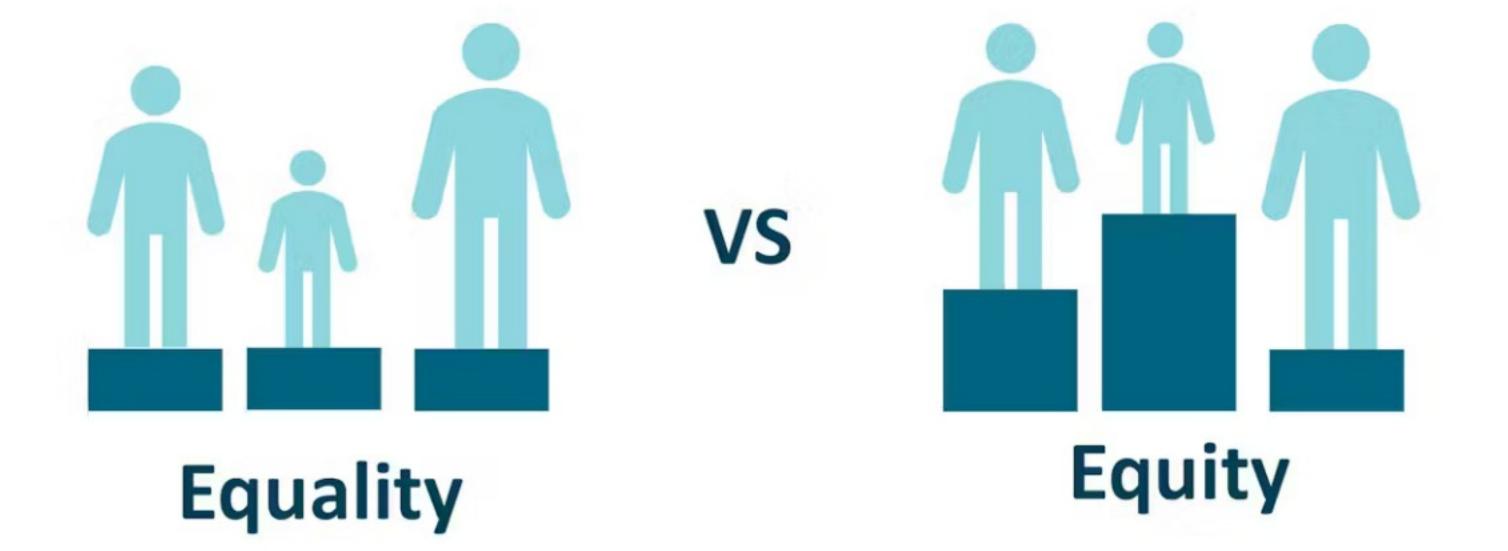




Equity

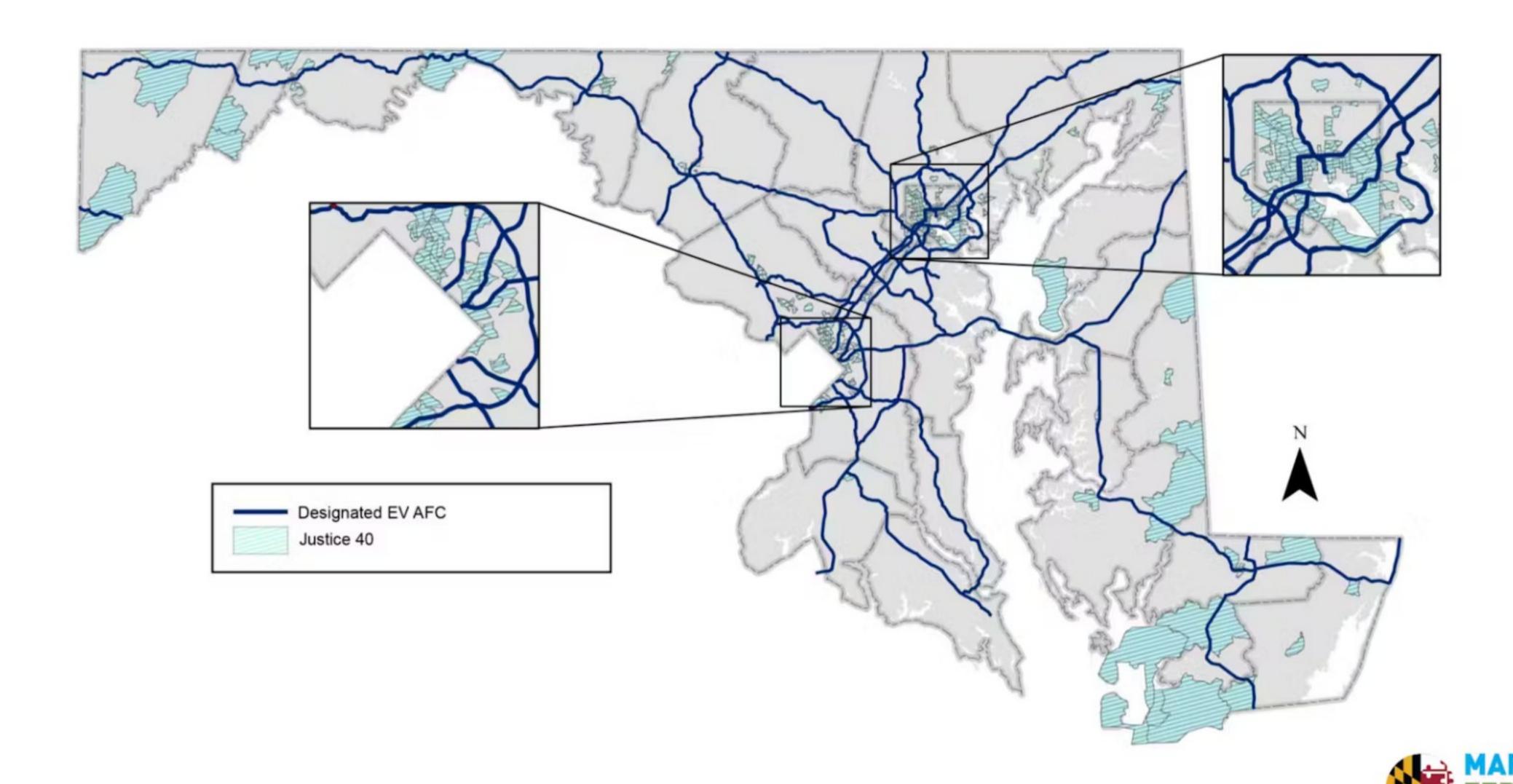


What is equity?

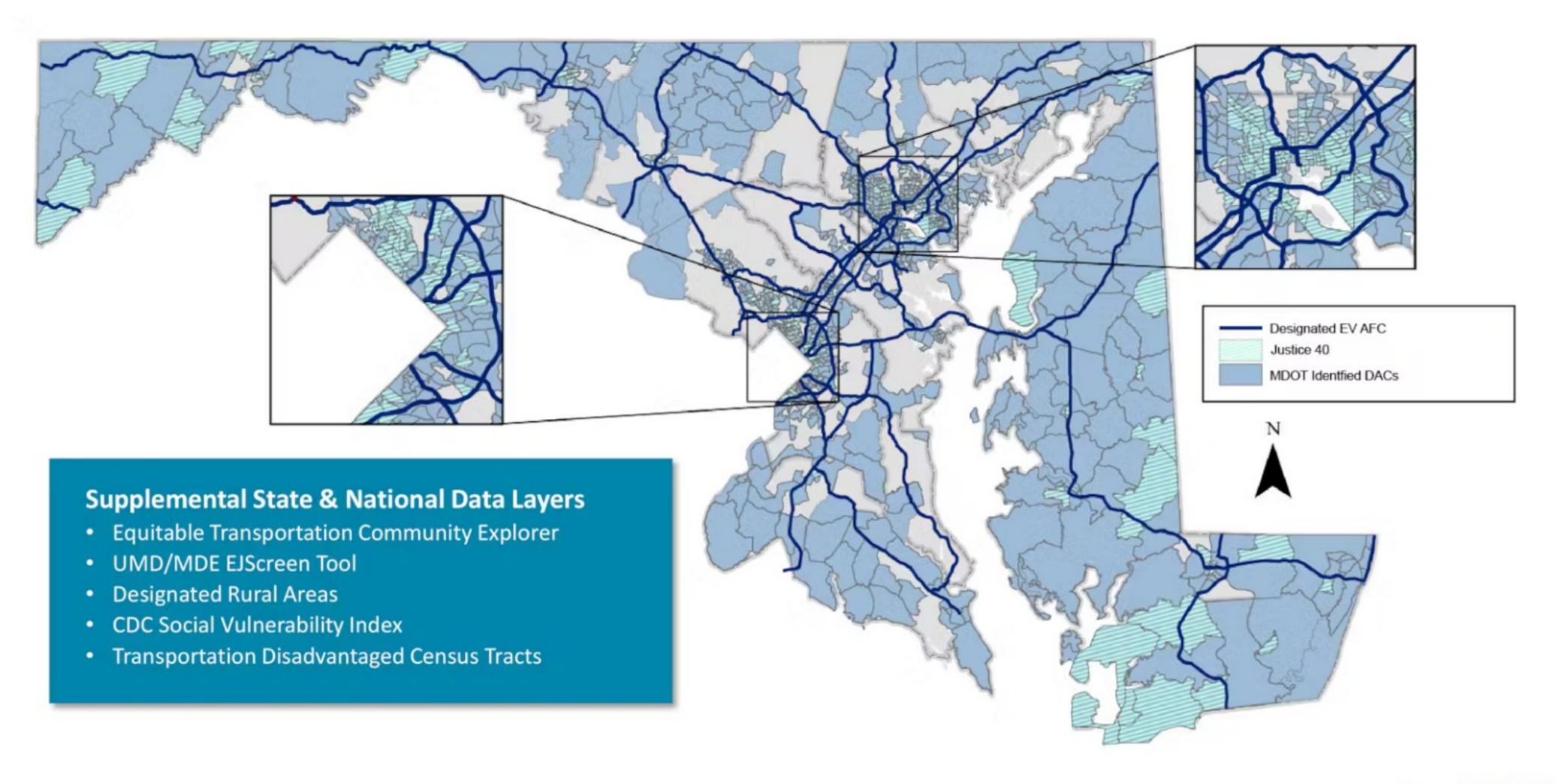




What is Justice 40?



Going Beyond Justice 40





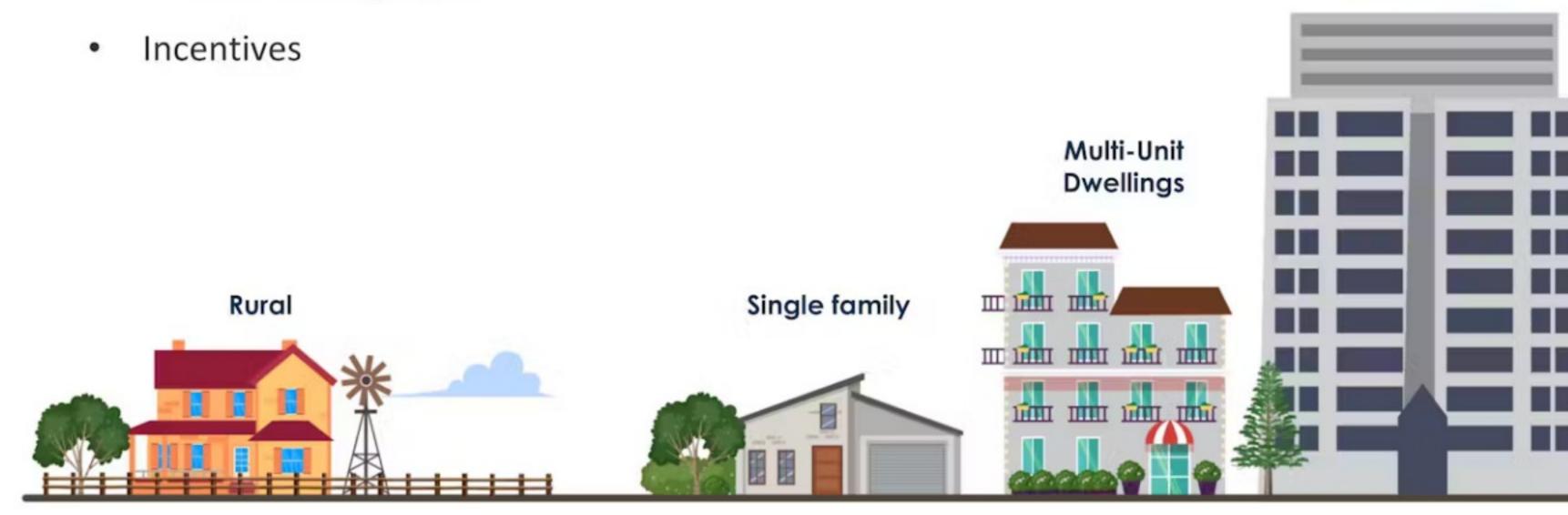
How does this relate to equity?

Accessibility

- Increasing public awareness about EVs, EVSEs, and incentives
- Expanding EV adoption, ownership, and usage
- Expanding the charging network
 - Home, workplace, multi-unit dwellings, community, and along highways
- Ensuring a reliable charging network

Affordability

Ensure access to all people of all income brackets

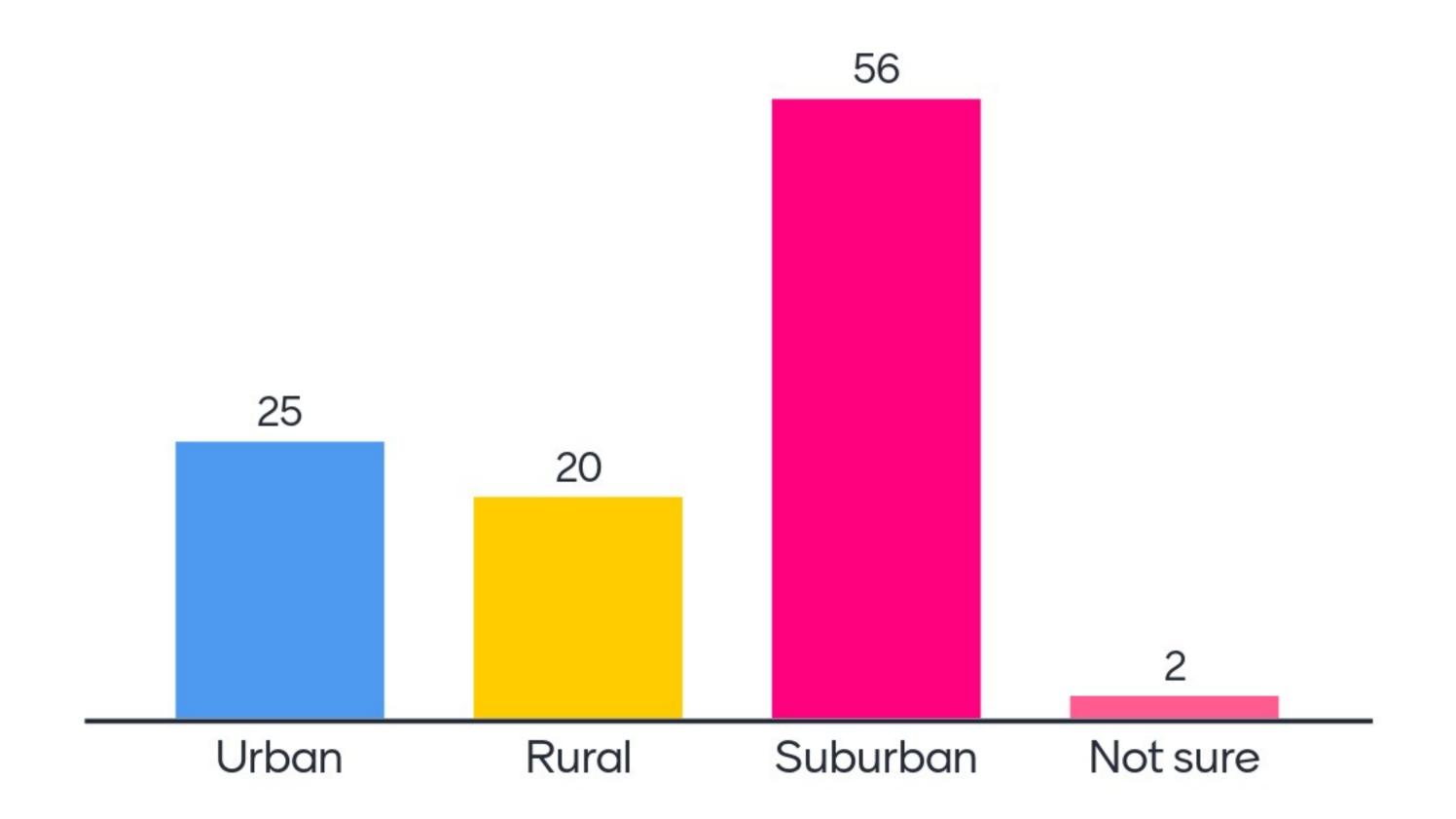




Mixed-Use/

Commercial

Would you describe your community as:







What does equity with respect to EVs mean to you?

124 responses







Outreach Efforts



What Has MDOT Done Previously?

Webinars

Initial stakeholder webinars in June 2022

Meetings & Presentations

Utilities | ZEEVIC | Local Government

Website & Tools

EV Plan Website | EV Dashboard | EV Charging Siting Tool | MarylandEV

MetroQuest Survey

681 Respondents | NEVI Vision & Goals | Prioritization Criteria |
 Concerns | Optimal Charging Station Locations

Request for Information (RFIs)

 NEVI Formula Funding | EVSE End-to-End Data Collection & Data Reporting Solution

ZEEVIC Events

11 community events | 5,200+ Touchpoints

Outreach by the Numbers



2,099

Total Survey Participants



11

Community Events



5,242

People Engaged



53

Total RFI Respondents



502

Optimal Sites Identified



What Is MDOT Currently Doing?

Webinars

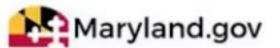
- Three Webinars
 - June 11, June 18, June 20
- Focused on education and why NEVI matters
 - Audience: Public

NEVI Plan Survey

- Feedback on electrifying transportation sector and developing statewide EV infrastructure plan
 - Audience : Public

Maryland NEVI Round 1 RFP Survey

- Gather feedback from on Round 1 RFP
 - Targeted Audience : Potential NEVI Applicants







Get Plugged into the Future of Electric Vehicles!

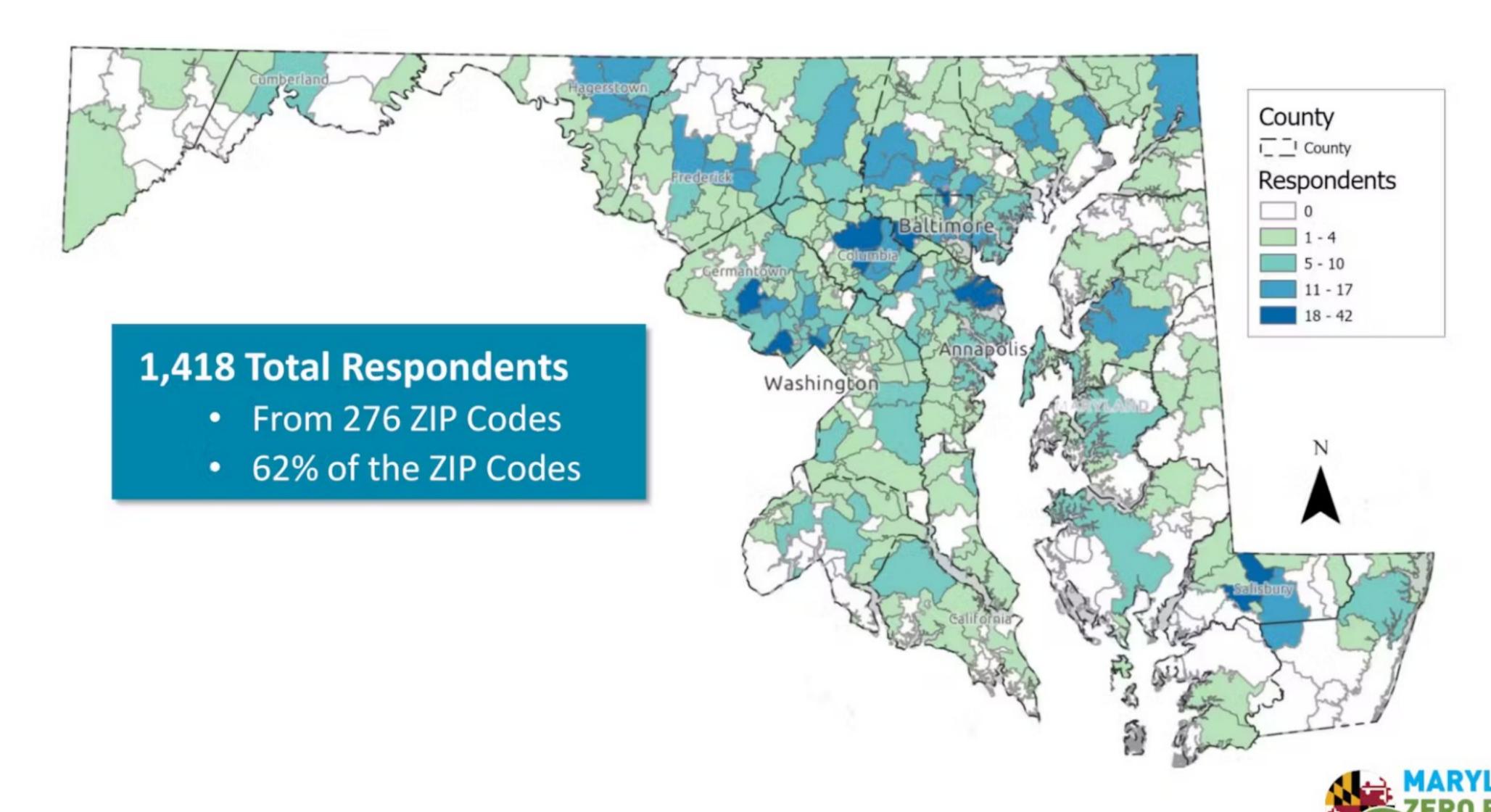
The Maryland Department of Transportation (MDOT) invites you to join one of our virtual informational webinars to learn about Maryland's National Electric Vehicle Infrastructure (NEVI) Plan and NEVI Program, the adoption of electric vehicles (EVs) across Maryland, and the installation of EV Charging Stations.

The same information will be shared at all three webinars, so we invite you to register for **one** of the webinars below:

Tuesday, June 11, 2024 — 11:00 a.m. to 12:30 p.m. Tuesday, June 18, 2024 — 11:00 a.m. to 12:30 p.m. Thursday, June 20, 2024 — 6:00 p.m. to 7:30 p.m.

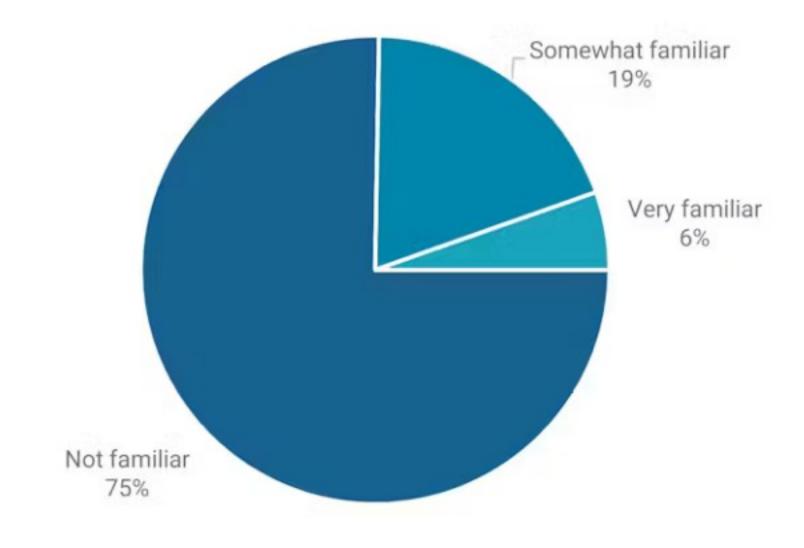


Survey Results

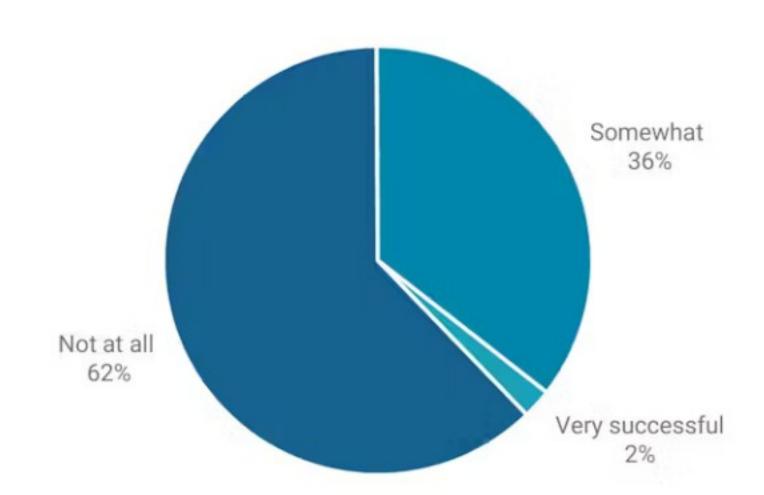


What we heard

Familiarity with NEVI



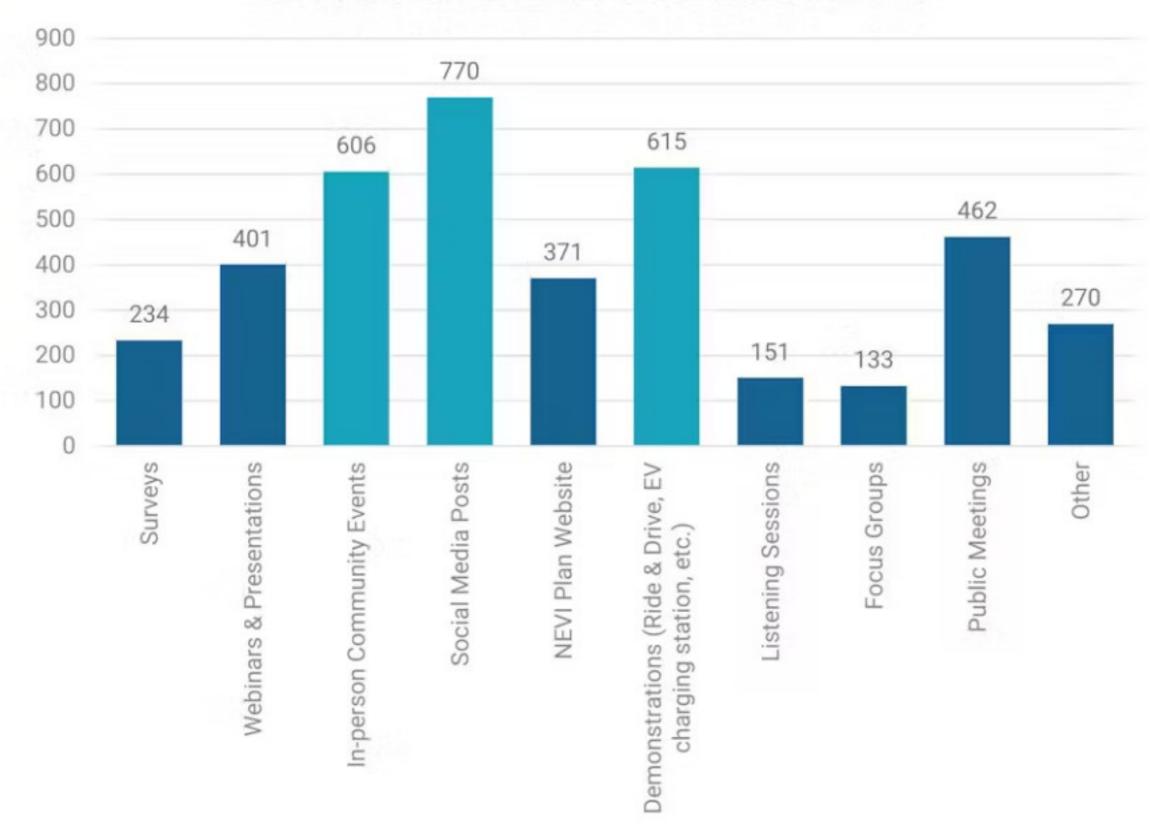
How Successful NEVI Outreach & Education to the Public Have Been



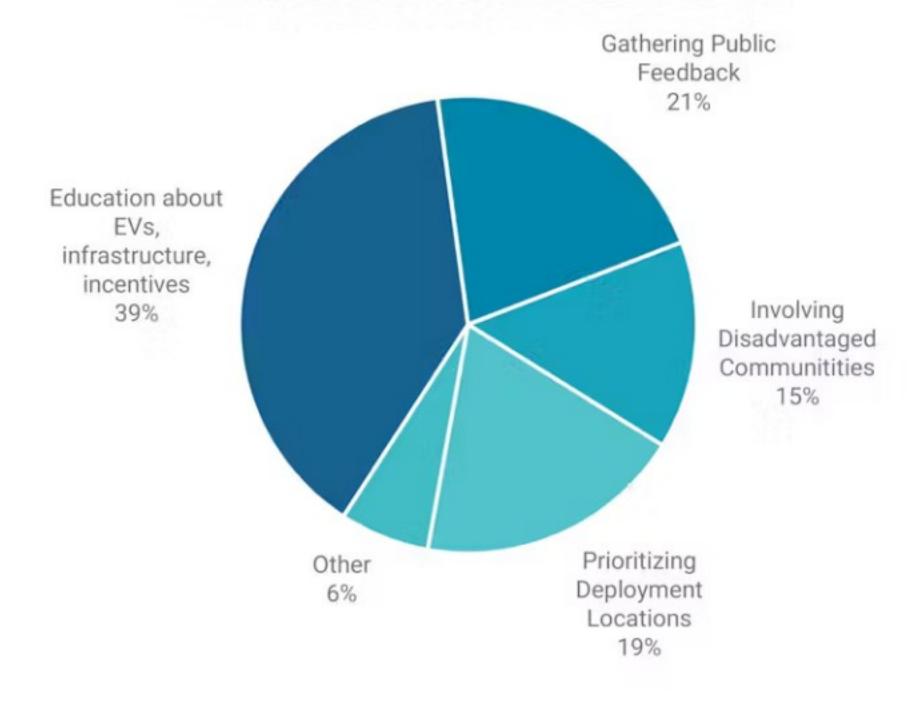


What we heard





What Should Outreach Focus On?





Are there any events you recommend we attend?

62 responses



What do you think would get you and your community interested in EVs?

107 responses







Get charging stations out and visible.

continue to spread the word

radio campaigns and short videos within 1 minute

Social Media, Radio, email

Target car dealerships

Possibly add billboards.

Working with car dealerships or even MVA for EV 101

TV and Social Media Ads

Prioritize outreach staff from marginalized communities, center the voices of the underserved.

Mailers

Make sure dealerships are educated on EVs

TV Commercials

Mail Out's

promote available incentives

Not over charge tag renewal just because it is an ev presence at elections and information with mal in ballots

This interactive designed webinar was great.

Tv commercialsRadio announcementsPartner with companies that sell EVs

low cost charges

Wayfinding signs for stations.

More tv commercials during sports broadcasts

target communities

Free food and events within community

Billboards.

events after install

community events

more work with dealerships

Get the technology out in front of local officials

Be in high traffic areas shopping centers, supermarkets, etc Address common misconceptions and/or misinformation

TV News, Radio - address misinformation

Promote private residential charge stations

Address the negative issues on electrical vehicles as you travel around the state and on these webinars.

increase incentives for ride share drivers and taxis. people will get a "test-drive" that way. **Podcast**

Tell them how much a full tank costs when it's electric.

give away free ev

Reach out to owners of big fleets (transportation companies, etc...) to increase exposure with more vehicles out there

community interactions

EV Curriculum in driving schools

more information about what incentive programs are available to everyone

Build more charging infrastructure and promote that it has been built

Make charging stations
easier to use, remove political
bias, and make EV
registration cheaper to make
it more attractive

coordinating charging network buildout with fueling stations

dealership group buy events (large discount when a certain amount of people buy) deploy more chargers

MVA/DMV

Vehicles that make a longer range today these vehicles are throw away when the battery goes, need a better design and guarantee on vehicle milage and battery range

higher education institutions

Increase comfort level with EV

Explain more about the cost of maintenance.

Education and Public awareness outreach

Utility by-in and PSA

Direct mail = with MVA mailings

Meet the communities where they are at

american lung association or other health orgs

Normalize - Estabish a use tax to fund road use and charging and support emergency responders.

grocery stores

Communicate the ease of repair; the general info is that repair is much more expensive than gas-powered vhixcles

Produce a public Oxfordstyle debate on the major issues surrounding EV's

Social media posts -Demonstrate easy to drive and charge Partner with UMD, and schools. Something during climate education week

High Schools

Newspaper editorials

In person visits at MVA, connect people w/literature presentations at 50+ Centers Partner with the faithbased community. Pay people to drive around and promote the vehicles and locations of available chargers.

Information at
Dealerships to sway
apprehensive buyers

more details in tv ads about the ways to access and its benefits

free give aways

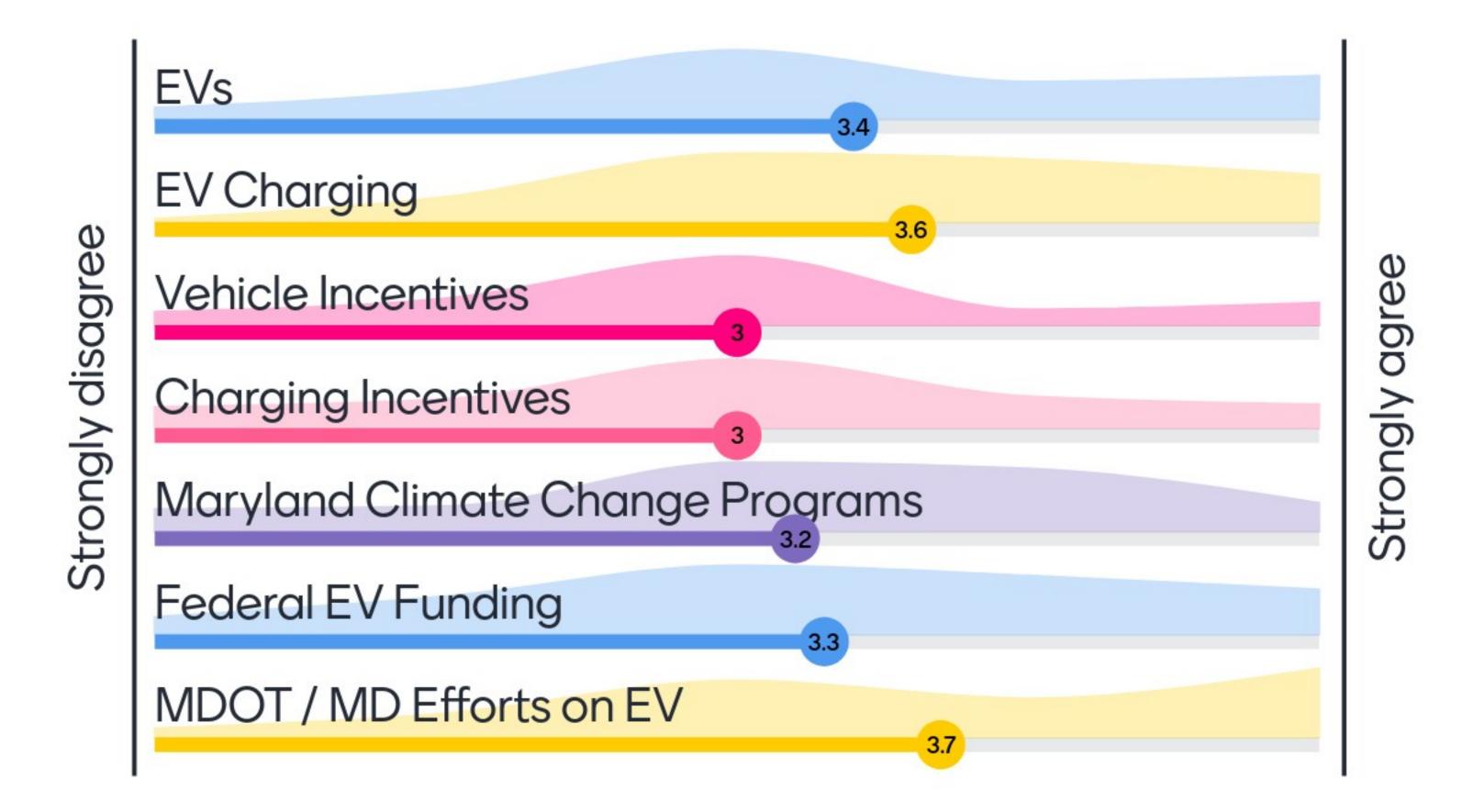
When licenses or other mailings are generated by MVA, send literature (can save on postage)

Create like QR codes to place around in different areas

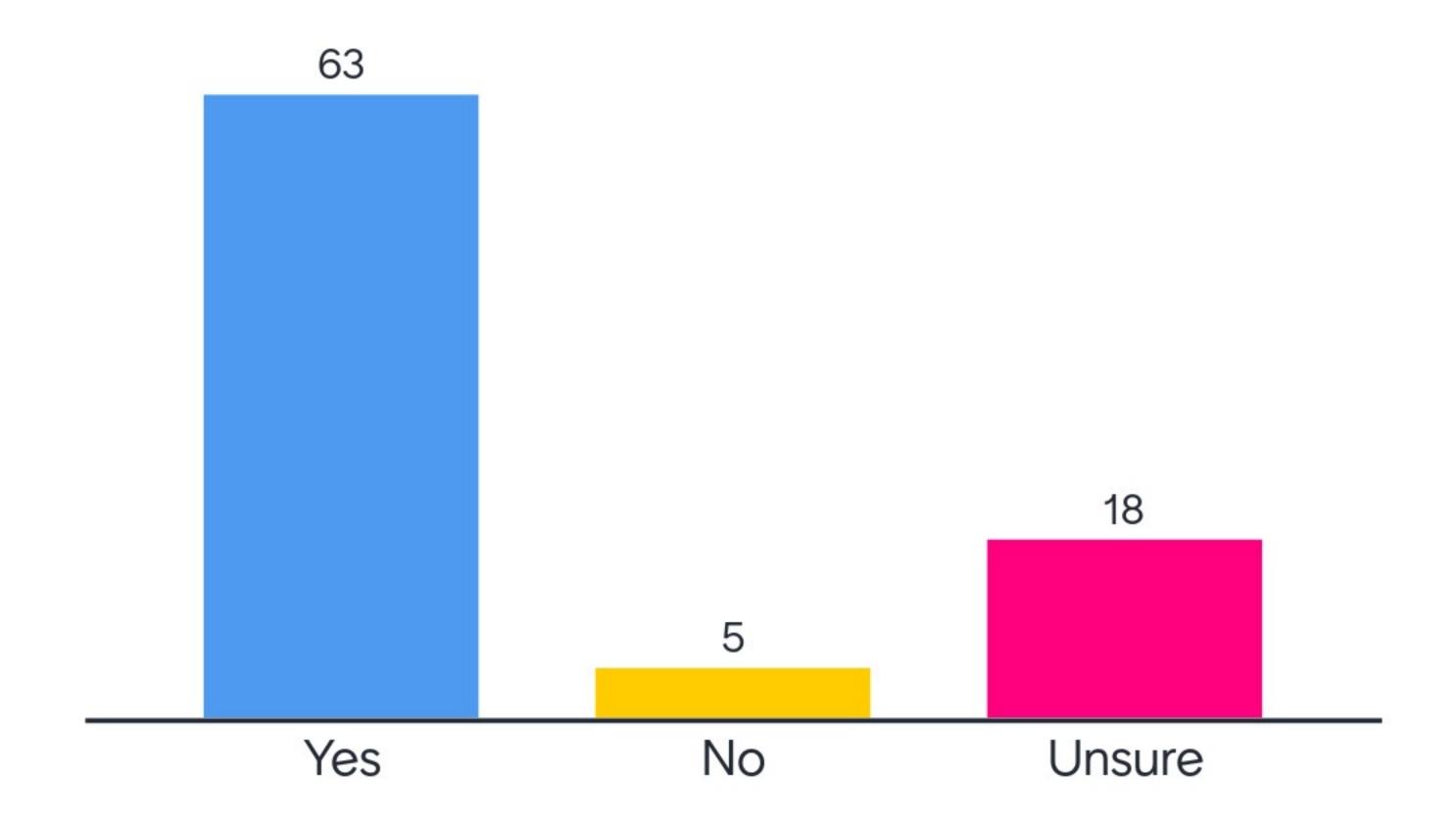
Focus on education. The ability to leverage EV's requires unique knowledge of the specific vehicle you may own. Trying to manage these features while driving is dangerous

Radio Shows / Podcasts

I feel more familiar with



I found this webinar informative





How can we improve our webinars?

51 responses





Question & Answer

Ask question in Q&A Box Raise hand to be unmuted



Resources



Websites & Links

Maryland NEVI Plan and Program

https://evplan.mdot.maryland.gov/

Join our NEVI Mailing list

https://evplan.mdot.maryland.gov/join-our-mailing-list/

MarylandEV

https://marylandev.org/

MDOT EV Dashboard

 https://experience.arcgis.com/experience/d8d908d9e62f4054b14ec8f6cbb5392b/page/Dash board-%26-Metrics/?views=Registration%2CEV-Registered

ZEEVIC

https://www.mdot.maryland.gov/tso/pages/Index.aspx?PageId=81



Contact Information



EV Plan

Email: EVplan@mdot.Maryland.gov







Thank You!



