



MARYLAND CONNECTED & AUTOMATED VEHICLES STRATEGIC FRAMEWORK & LOCAL OPPORTUNITIES

Maryland Planning Directors' Roundtable

September 30, 2021

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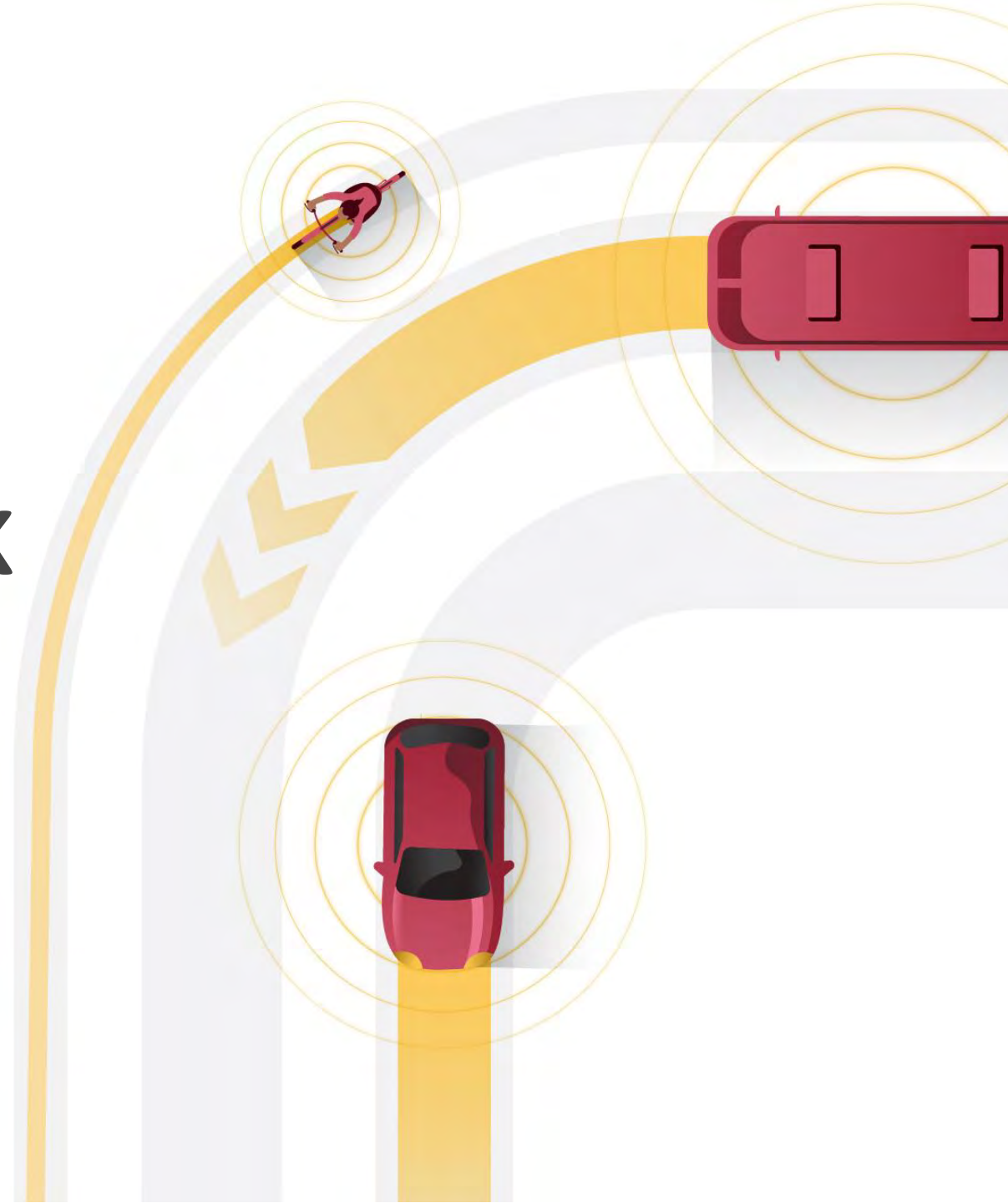
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TODAY'S TOPICS

1. Maryland CAV Strategic Framework & Working Group
2. Outreach and Resources for Local Jurisdictions

MARYLAND CAV STRATEGIC FRAMEWORK & WORKING GROUP



MARYLAND'S CAV VISION

Uphold & enhance a Safe, Efficient, and Equitable transportation future by delivering collaborative and leading-edge CAV solutions. Maryland is open for business and eager to realize the life-saving and economic benefits of CAV technology, while ensuring safety for all. We are embracing CAV technology and innovation through continuing collaboration with partners interested in researching testing, and implementing CAVs in MD.



MARYLAND'S CAV MILESTONES

2015

Foundations

- Statewide CAV Working Group Formed

2016

Early Efforts

- Stakeholder engagement across Maryland and at federal level begins

2017

Permits & Pilots

- Permit process established
- 1st company pilots CAV technology
- CAV strategic plans start forming within MDOT business units

2018

Expansion

- Maryland CAV Vision finalized
- CV technology pilots underway
- 2nd company pilots CAV technology

2019

Stronger

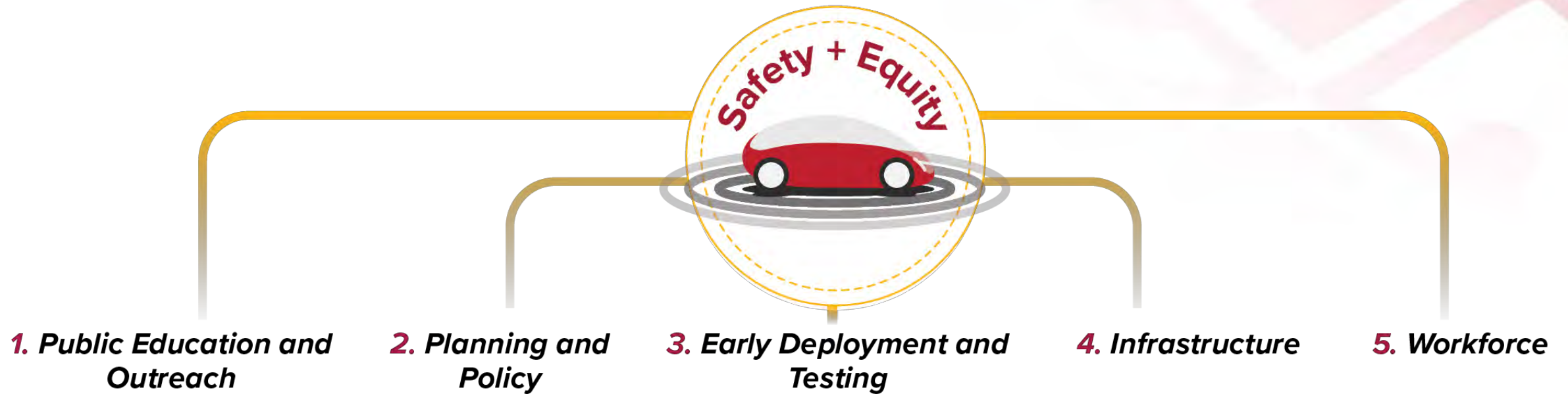
- MDOT receives two grants to advance CAV pilot programs
- Agencies consider workforce impacts

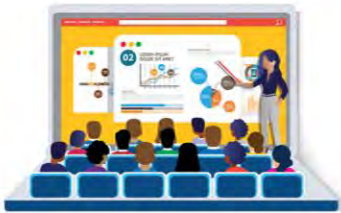
2020

Full Steam Ahead

- BWI Thurgood Marshall Airport considers CAV parking technology as a service for customers
- CAV Strategic Framework

FRAMEWORK KEY FOCUS AREAS





PUBLIC EDUCATION AND OUTREACH

- Increase transparency of educational CAV material and ongoing efforts.
- Ensure diverse audience when communicating initiatives.
- Leverage existing outreach avenues.



PLANNING AND POLICY

- Facilitate opportunities through the Maryland CAV Working Group.
- Establish clear goals and metrics for CAV in Maryland.
- Identify and address barriers to CAV.
- Incorporate CAV into planning and policy documents.
- Establish policies on cross-collaboration and open data sharing.
- Anonymize CAV data and safeguard from mishandling.



INFRASTRUCTURE

- Establish baseline operation of technology infrastructure.
- Establish acceptable equipment downtimes.
- Remain engaged with national guidelines and integrate or create State-specific specifications.
- Dedicate resources and create partnerships to build out the communications infrastructure.
- Asset-management and software configuration management.



EARLY DEPLOYMENT AND TESTING

- Broaden use cases for early deployment and pilot projects.
- Gather public perception and adjust pilots.
- Grow the list of locations for CAV testing.
- Prioritize freight-focused CAV strategies in the short term.
- Leverage deep bench of academic excellence.
- Embrace new partnerships for non-traditional research.

WORKFORCE

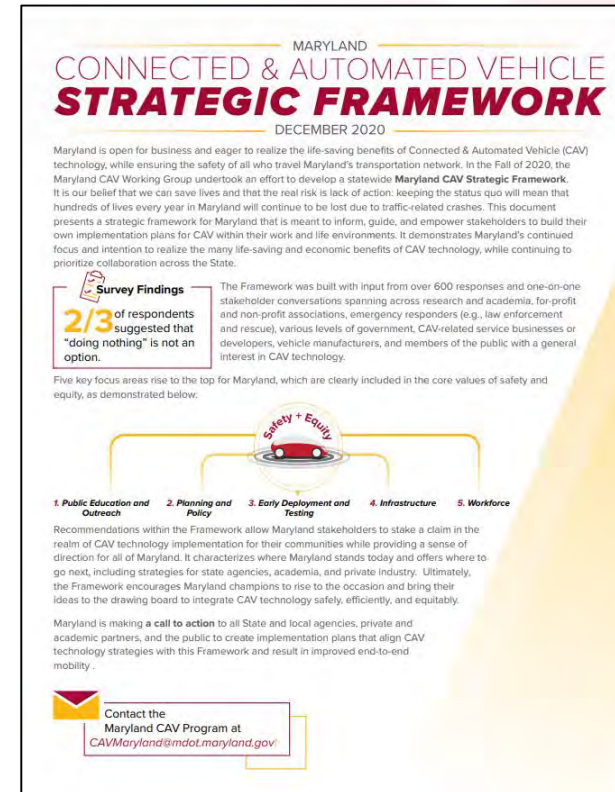
- Promote and enhance existing workforce.
- Address recruitment & retention gaps at the local level.
- Establish expectations for future staffing.
- Field training and traditional trade jobs should be encouraged.



FRAMEWORK LOCATION

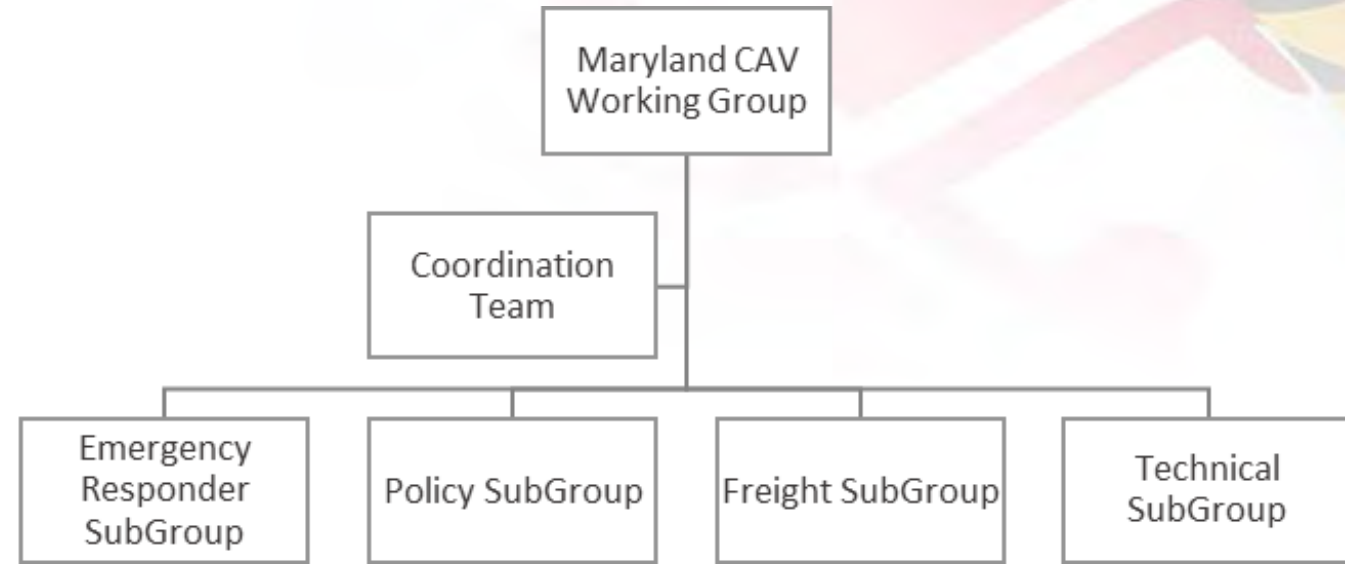
Full report, plus 1-Page Executive Summary available at:

<https://mva.maryland.gov/safety/Pages/MarylandCAV.aspx>



PARTICIPATE IN COORDINATION GROUPS

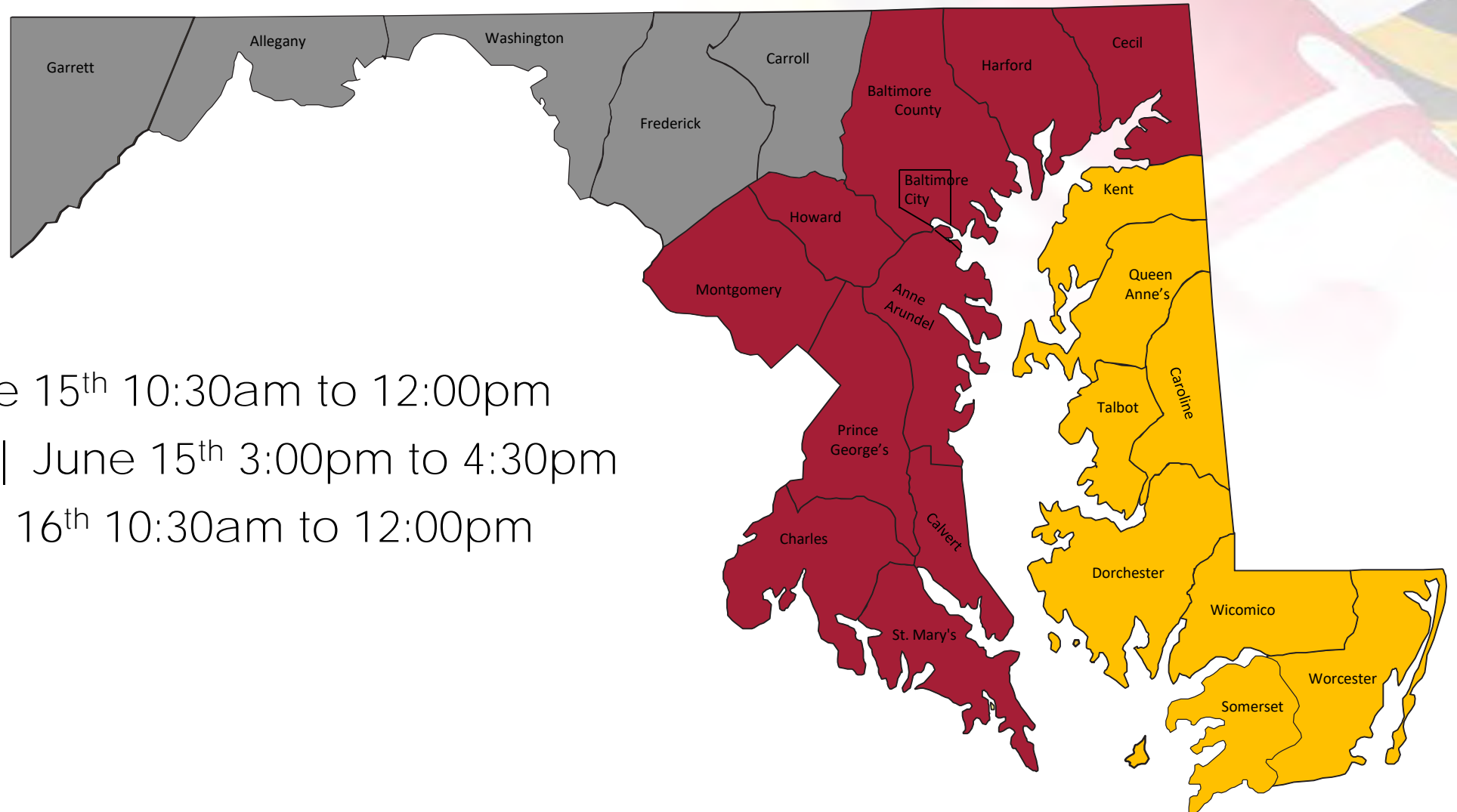
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- Next Meeting of CAV Working Group
 - December 14, 2021



OUTREACH & RESOURCES FOR LOCAL JURISDICTIONS

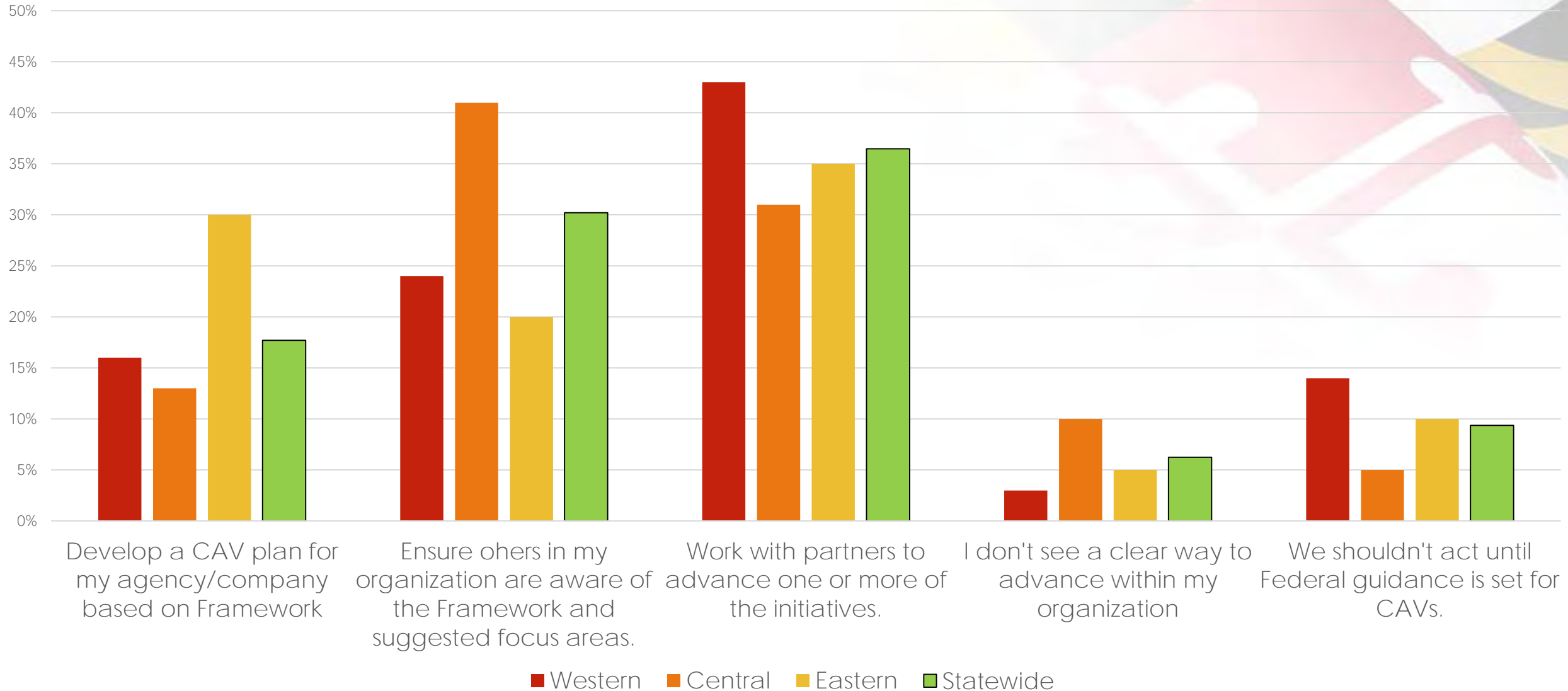


JUNE OUTREACH WEBINARS



- Western | June 15th 10:30am to 12:00pm
- North & South | June 15th 3:00pm to 4:30pm
- Eastern | June 16th 10:30am to 12:00pm

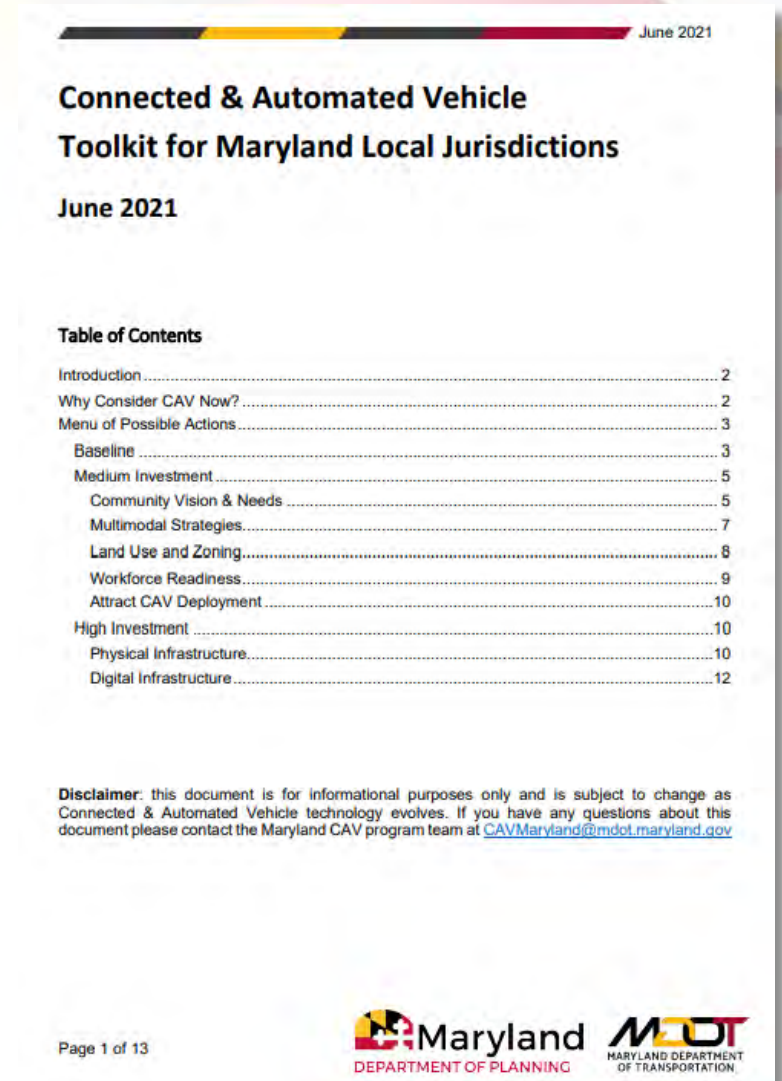
Question: How might you help advance Maryland's call-to-action outlined in the CAV Strategic Framework?



LOCAL JURISDICTIONS CAV 'TOOLKIT'

- Collaboration between Maryland Dept. of Planning and Maryland DOT
- Aimed at local jurisdictions
- Empowers local jurisdictions by giving them a fuller “picture” about CAV impacts so they can make informed decisions
- Set of actions are broken out into baseline, medium investment and high investment

Source: [link to document](#)



HIGHLIGHTS FOR LOCAL JURISDICTIONS

1. Identify community vision of local transportation ecosystem needs
2. Tie needs to known CAV solutions
3. Include CAV language in plans and policies (especially for grants!)
4. Educate local, regional, and statewide legislators on CAV
5. Engage with CAV companies early to learn limitations and opportunities
6. Pursue and implement CAV pilot deployment projects
7. Support data collection and sharing, while balancing privacy
8. Build staff skill in CAV and related technology



Questions?

Questions related to CAV: Maryland CAV Working Group at CAVMaryland@mdot.maryland.gov