

2023 Maryland CAV Workshop Summaries

Vulnerable Road Users

This document summarizes key takeaways from the Vulnerable Road User (VRU) workshop hosted by the **Maryland CAV Working Group** in June 2023. The Working Group provides a central collaboration venue for the development and deployment of CAV technologies in Maryland.



Vulnerable Road Users

What did I miss? The MD CAV Working Group held a virtual workshop on June 5, 2023 to identify practical applications for the State, the Working Group, and partner organizations to address how CAV technology could be leveraged to improve safety for emergency responders, pedestrians, bicyclists, construction workers, and other roadway users.

Who can I contact to learn more?

- MD CAV Working Group (cavmaryland@mdot.maryland.gov)
- Guest Speaker: Brian Cronin, FHWA [Office of Safety and Operations Research and Development](#)
- Guest Speaker: Warren Henry, [Maryland State Highway Administration](#)

Where can I get more information? The meeting agenda and presentation materials are posted on the MD CAV Working Group website: cav.mdot.maryland.gov/working-group

Summary Points	Potential Considerations for State and Local Agencies
<p>Engage drivers, vulnerable road users, and policy makers to improve awareness and understanding of the capabilities and limitations of the technology.</p>	<ul style="list-style-type: none"> ■ Consider demonstrations, surveys (both in-field and regular), along with outreach and education to engage and capture stakeholder input on the needs of vulnerable road users. ■ Consider specific trainings and information sharing with: <ul style="list-style-type: none"> • Vendor-day introductions to understand use cases for currently available CV technology. • Resource and funding awareness. • Understanding procurement and opportunities for streamlining. • Lessons learned from demonstration projects.
<p>Consider how humans will interface and interact with the technology, from the perspectives of drivers in the vehicle and vulnerable road users outside the vehicle.</p>	<ul style="list-style-type: none"> ■ The MD CAV Technology subgroup is developing a data exchange playbook on how local governments can share data from CAVs with different stakeholders. ■ Develop demonstration projects to understand more about: <ul style="list-style-type: none"> • Overload or user fatigue in warning sensitivity. • Data discovery and safety benefits (qualitative data). • Calibration of micropositioning sensors. • Vehicle technology standards. ■ Consider and explore the use of CV technology to enhance safety especially at intersections, crosswalks, school zones, and work zones.
<p>Barriers for enhancing VRU safety include funding challenges, lack of understanding of technology use cases, liability concerns, and inequitable access to technology.</p>	<ul style="list-style-type: none"> ■ Potential for inter-jurisdictional partnerships between local agencies to share resources and best practices and demonstrate the benefits of CAVs for policy makers. ■ Stay aware of new grant opportunities on the Maryland Department of Transportation's (MDOT) webpages, many are available for CAV safety projects. <ul style="list-style-type: none"> • Federal Grant Information • MDOT Federal Discretionary Grants ■ Take action to address top stated barriers of understanding, including: <ul style="list-style-type: none"> • Technology possibilities for VRU safety. • Readiness of the technology including accuracy, latency, and cybersecurity. • Funding opportunities available.



FOR MORE INFORMATION

Visit cav.mdot.maryland.gov or send an email to CAVMaryland@mdot.maryland.gov.