

*MARYLAND CONNECTED & AUTOMATED
VEHICLES WORKING GROUP*

Welcome!

cav.mdot.maryland.gov

Demos/Networking 12:30pm – 1:15 pm
Meeting begins at 1:15 pm



MDOT MOTOR VEHICLE ADMINISTRATION

Chrissy Nizer

Administrator

Maryland Department of Transportation

Motor Vehicle Administration

Governor's Highway Safety Representative

Co-Chair of the Maryland Connected &

Automated Vehicle Working Group



MDOT UPDATING 20-YEAR MARYLAND TRANSPORTATION PLAN

- MDOT has kicked off the process to create a new Long-Range Transportation Plan and **welcomes all input**. Every five years, MDOT develops a 20-year vision and corresponding strategy for transportation in the state known as the Maryland Transportation Plan or MTP.
- The MTP outlines the State's overarching transportation priorities and creates a larger context for transportation decision-making.
- The update of the plan includes a review and assessment of existing MDOT plans, metropolitan planning organization or regional plans, peer state plans, federal priorities, Maryland state priorities, and public input.
- The draft proposed vision, guiding principles, and goals will be modified and adapted throughout the planning process by incorporating input received from Maryland's residents and visitors.
- A **public survey** is currently available for Marylanders to provide input (starting April 5th) through May 5th. We appreciate your input to inform the 2050 MTP, which will help which will help prioritize transportation. policy and investments. More info, **[click here](#)**.

RESOURCES ON GRANT OPPORTUNITIES

- The federal Infrastructure Investment and Jobs Act (**IIJA**) is a \$1.2 trillion investment in our nation's infrastructure intended to rebuild America's roads, bridges and rails, upgrade and expand public transit, modernize the nation's ports and airports, improve safety, address the climate crisis, advance environmental justice, and invest in communities that have too often been left behind.
- Stay up to date on grants **MDOT** has applied and/or been awarded at mdot.maryland.gov/Grants
- Also find monthly **newsletters** at mdot.maryland.gov/IIJAGrants -- intended to help counties and other organizations to navigate grants available under the IIJA and provide other helpful information
- Find **resources** on how to apply and tips for writing grants also @ mdot.maryland.gov/IIJAGrants

CAV UPDATES

- Number of entities submitting an **Expression of Interest** to do research, testing, and implementation of CAV in Maryland
 - Three (3) additional since last CAV WG Meeting in Dec 2022
 - Total of Forty-nine (49) since inception of process in June 2017
- **Showcased** Maryland CAV projects last month in Annapolis at the ITS Maryland Technology Fair where about 100 legislators and legislative staff attended
- CAV team is represented on many **regional and national groups** focusing on these issues. The team attended numerous meetings over the last several months to bring home research and best practices that align with Maryland's priorities, including:
 - Transportation Research Board
 - Eastern Transportation Coalition
 - AASHTO
 - ITS America

CAV SUBGROUP UPDATES

Policy Subgroup

- Discussions with PennDOT on implementation of their law for fleet use of highly automated vehicles, including removing the requirement for a licensed driver to be in the vehicle.
- Discussions on issues of remote operator / remote monitor and model legislation addressed in several states this spring developed by Autonomous Vehicle Industry Association.

Emergency Responders Subgroup

- Continuing to engage representatives from law enforcement and emergency / fire services to remain current on automated vehicle experiences across the states.
- Annual update of Guidelines for AV use and considerations necessary for the companies involved with AV testing and deployment.

Freight Subgroup

- Recently explored the FedEx Ground facility at TradePoint Atlantic to discuss autonomous parcel movement and cargo handling technology.

- Continuing to address key aspects of autonomous freight movement and logistics, customized terminal/yard automation, inspections, freight data exchange, freight corridors, ADAS (Advanced Driver Assistance System) for trucks, and truck parking.

Tech Subgroup

- Recent meeting with local jurisdictions and academia to discuss technologies to scale in MD, potential testing sites, and the business case for AVs across the state.
- Developing information sheets for several types of AV solutions intended to help local jurisdictions better understand the impacts of AVs; and documenting local, state, academia and other stakeholder experiences in deploying AV and CV technologies, in the hopes of helping others jump start their deployments across the state.
- Conversations continue around digital infrastructure and potential for more locations to test CAV solutions, including how to potentially loan/swap equipment at different locations to help all stakeholders practice with technology.

MDOT CAV ACTIVITIES

- Maryland Transit Administration is actively providing resources and guidance to **local jurisdictions** as they contemplate CAV-enabled micro transit solutions for their locally operated transit systems
- Maryland Transportation Authority issued a **Request for Information** on CAV technology in December; there were seven (7) respondents, but none that are directly on point with the request
- State Highway Administration completed an initial **feasibility analysis** along major corridors for how automated freight vehicles might perform to better understand the scale of potential improvements needed to support freight automation
- State Highway Administration pursued and received **experimental licenses** for TIM deployments on the US 1 Innovation Corridor to keep moving forward
- Motor Vehicle Administration and State Highway Administration continue to support CAV workforce development, including internal **training webinars** and external showcasing

ITS4US

- USDOT **\$40 million** multimodal effort called ITS4US; University of Washington is lead for one of 4 projects and are testing in Maryland
- To identify ways to provide more **efficient, affordable, and accessible transportation options** for underserved communities, including people with disabilities, older adults, low-income individuals, rural residents, veterans, and limited English proficiency travelers
- **FREE mini conference** scheduled for April 22nd & 23rd to recruit mappers for Baltimore City, Baltimore County and Harford County; other training available if miss conference
 - Open the Paths 2023: An Open Data & Transportation Equity Conference
<https://www.eventbrite.com/e/open-the-paths-2023-an-open-data-transportation-equity-conference-tickets-515043698567>
- MDOT working with MDP, MDH, BMC, and local jurisdictions for volunteer **recruitment**
- MDOT working with City of Baltimore, Baltimore County, and Harford County to secure **sidewalk data** and requesting the data to be shared with the data equity project
- List of sidewalk attributes as part of project:
<https://github.com/OpenSidewalks/OpenSidewalks-Schema>

CONNECTED VEHICLE PROJECTS

- Maryland's Strategic Highway Safety Plan includes recommendations under the Pedestrian & Bicycle Emphasis Area Team research and education to support the adoption of life-saving emerging technologies, such as Vehicle-to-Everything (V2X).
- The CAV Tech Subgroup helps this effort with continuous sharing of knowledge around integrating technology as a tool for enhancing safety, mobility, and equity.
- SHA has deployed a V2X project on MD 214 at a metro station pedestrian crossing.
- The technology “senses” a vulnerable road user, and initial research findings highlight the need to focus on how these sensors capture information. It is encouraging that sensors have demonstrated their capabilities in inclement weather and poor visibility, but there are still occasional gaps.
- MD 214 pedestrian V2X deployment is currently active and we encourage anyone interested in piloting their DSRC or CV2X applications at that location for VRU safety to reach out to SHA for more information.