

THE ROAD AHEAD

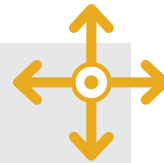
2019 PRIORITIES

In 2019, MDOT SHA intends to continue to build on last year's momentum and pursue activities in support of the strategies and recommendations outlined in the MDOT SHA CAV Strategic Action Plan.

1

SUPPORT CAV DEPLOYMENT EFFORTS

US-1, TSMO, as well as research and deployment grants.



DEVELOP TECHNOLOGY-BASED PROJECT LIST

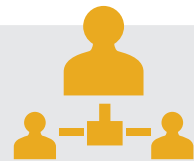
Develop a CAV library to capture new and existing project ideas, and integrate ITS devices into planning tools.

2

3

DEVELOP AND MAINTAIN CAV EDUCATIONAL MATERIALS

Develop educational CAV materials for internal and external platforms including training materials, public policy, and public consumption.



SUSTAIN NATIONAL & REGIONAL INVOLVEMENT

Develop a plan for a new MDOT Local Agency CAV Sub Group, support statewide CAV testing, and attend local and national conferences.

4

5

PLANNING & BACKGROUND EFFORTS

Understand long term impact to Maryland and develop new interactive tools in support of planning. Build out CAV data inventory and explore opportunities for business process improvement.



STRATEGIC TELECOMMUNICATIONS PLAN & FIBER MAP

Complete Strategic Telecommunications Plan and circulate for comment. Work closely with MDOT and DOIT to develop a map inventory of locations with fiber across the State.

6



WHAT ARE CAV's?

CONNECTED VEHICLES & AUTOMATED VEHICLES BELONG TOGETHER...

CONNECTED VEHICLES

Connected vehicle technologies allow vehicles to communicate with each other and the world around them.



AUTOMATED VEHICLES

A fully autonomous vehicle does not require a human driver, as they are computer-driven.



Traffic signal phase state & change



Vehicle platooning



Advanced traffic management



Identification of hazards out of the view of sensor systems

CONNECTED AUTOMATED VEHICLES

When CV is combined with AV, the vehicle becomes a CAV capable of "talking" to other vehicles, intelligent roadside equipment, and mobile devices.

MARYLAND'S VISION FOR CAV

To uphold and 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 committed to embracing CAV technology and welcome the opportunity to collaborate with partners interested in researching, testing, and implementing CAVs in Maryland.



MDOT SHA CAV STRATEGIC PLAN



OUR VISION

Embrace technology and next generation mobility trends to provide safe & reliable travel for people and goods within Maryland

OPEN

GOAL 1

Be an attractive partner; Maryland is "open for business"



GOAL 2

Begin deploying CAV technology to gain experience through pilot projects



GOAL 3

Establish foundational systems to support future CAV deployment



GOAL 4

Enable CAV benefits for customers



GOAL 5

Look for opportunities to leverage CAV technologies to support existing business processes



<https://arcg.is/1uKWLW>



CAV STRATEGIC ACTION PLAN



ORGANIZATIONAL MANAGEMENT OF CAV SECTION



SUPPORTING CAV TESTING WITHIN THE STATE



US-1 INNOVATIVE TECHNOLOGY DEPLOYMENT CORRIDOR



COMMUNICATION AND OUTREACH INITIATIVES



TRAINING INITIATIVES



PLANNING TOOLS AND MATERIALS RELATED TO CAVS

RELEASED

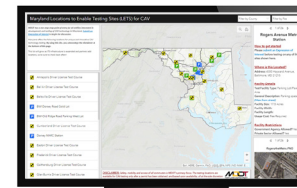


WITH **35** RECOMMENDED ACTIONS

Progress made on **26** of those recommended actions in 2018!

- MDOT SHA CAV Working Group co-chaired by CHART and OPPE
- New Deputy Director for TSMO & CAV
- New Communications Division within the Office of CHART

- Office of Planning and Preliminary Engineering developed and maintains the Maryland Locations for Enabling Testing Sites (LETS) web mapping application.



- Facilitated CAV testing on MDOT SHA facilities including:



STEER Tech autonomous vehicle parking



olli Self Driving Shuttle

- Completed a **comprehensive requirements document** for a proposed connected vehicle pilot project along US-1 with recommended ITS solutions to support incident and traffic management.

- Developed **MDOT SHA CAV "Champions"** within MDOT SHA for participation in the CAV working group.

- Developed **intranet site** and **CAV blog** to provide education and outreach along with internal collaboration tools.

- Ongoing participation in **MDOT CAV Working Group**, and **Technical and Freight Subgroups**.

- MDOT SHA co-hosted the FHWA **Connected Vehicle 201 training**.

- MDOT SHA co-hosted the FHWA **Introduction to ARC-IT Architecture workshop**.

- Developed **Rough Order of Magnitude (ROM) estimates for CAV technology and fiber deployment** to be incorporated in each of MDOT SHA's CTP Projects.

- Developed **Call for Projects Template** to solicit ideas for CAV projects across the agency.