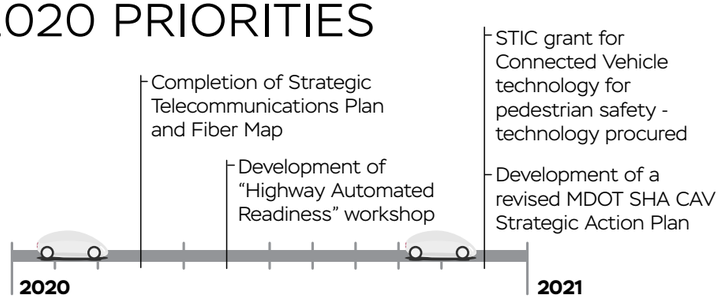
THE ROAD AHEAD

2020 PRIORITIES



1

SUPPORT CAV DEPLOYMENT EFFORTS

- Deploy the 1st pedestrian DSRC/C-V2X technology project in Maryland and create the standard operating procedure for future MDOT SHA DSRC/C-V2X deployments
- Develop Technology-based Project List

2

INTERNAL AND EXTERNAL EDUCATION OF CAV

Some educational efforts that will be carried out in 2020 include:

- Transportation and Civil Engineering (TRAC) in-school workshops
- Participation in Science, Technology, Engineering, and Math (STEM) events for students
- A second Lunch and Learn for agency staff

3

SUSTAIN NATIONAL & REGIONAL INVOLVEMENT

- Continued participation in National Committees
- Continued participation and support of the Maryland Statewide CAV Working Group

4

PLANNING EFFORTS

- Development of "Highway Automated Readiness" workshop
- Completion of the Strategic Telecommunications Plan and Fiber Map
- Development of a Revised MDOT SHA CAV Strategic Action Plan

CONNECTED AND AUTOMATED VEHICLE

2019 ACCOMPLISHMENTS & THE ROAD AHEAD

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

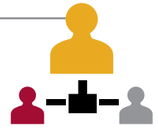
MARCH 2020

2019 ACCOMPLISHMENTS

In last year's Accomplishments document, MDOT SHA listed 6 priorities it wanted to focus on in 2019. Throughout 2019, the agency carried out several activities that helped further those priorities. The MDOT SHA CAV Working Group evaluated how the program had performed for each 2019 priority. Below are highlights from some of the key activities the agency carried out, and results from the survey:

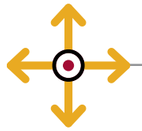
ORGANIZATIONAL MANAGEMENT OF CAV

CAV efforts are now led by a new Connected and Automated Transportation Systems (CATS) Division within the Office of CHART and ITS Deployment.



OBJECTIVE #1

SUPPORT CAV DEPLOYMENT EFFORTS



The CAV Technology Deployment Dashboard was updated to include several MDOT SHA ITS devices.

Recieved a $40,000 State Transportation Innovation Council (STIC) Grant to deploy Connected Vehicle Technology for pedestrian safety.

Developed a Data Governance document on the creation and management of MAP messages.

SURVEY RESULTS
70% OF PARTICIPANTS FELT EXPECTATIONS **WERE MET**

"Seem like important tasks were completed."

OBJECTIVE #2

DEVELOP TECHNOLOGY-BASED PROJECT LIST

SURVEY RESULTS
53% OF PARTICIPANTS FELT EXPECTATIONS **WERE MET**

Developed a scope for a Truck Parking and Information Management System pilot project on the I-95 corridor.

"Truck parking implementation and tech needed for a long time plus need a wider map of 'pilots'."

OBJECTIVE #3

DEVELOP AND MAINTAIN CAV EDUCATIONAL MATERIALS

Held the first ever agency-wide webinar Lunch and Learn on CAV, with over 120 attendees.

Released a CAV 101 Training Application for MDOT SHA employees

"I thought this is where MDOT SHA really shined this year- definitely exceeded expectations."

SURVEY RESULTS
78% OF PARTICIPANTS FELT EXPECTATIONS WERE **EXCEEDED**

OBJECTIVE #4

SUSTAIN NATIONAL & REGIONAL INVOLVEMENT

SURVEY RESULTS
65% OF PARTICIPANTS FELT EXPECTATIONS WERE **EXCEEDED**

Participated in the following organizational events:

- ✓ Connected Vehicle Pooled Fund Study (CVPFS)
- ✓ ITS America V2X/AV/Cybersecurity/Smart Infra/MOD alliance
- ✓ AASHTO Committee on Transportation Systems Operations (CTSO)
- ✓ National Institute of Standards and Technology (NIST)
- ✓ I-95 Corridor Coalition Mid-Adlantic CAV Group

"National & Regional involvement helps us learn about how other jurisdictions are doing things & what challenges they face. Very important."

OBJECTIVE #5

PLANNING BACKGROUND EFFORTS

Performed a preliminary CAV VISSIM analysis of two major corridors in the state.

Participated in a Connected Vehicle Capability Maturity Workshop to help direct priorities for the coming years.

Performed a preliminary statewide sensitivity run of the impacts of CAVs on Vehicle Miles Traveled.

SURVEY RESULTS
63% OF PARTICIPANTS FELT EXPECTATIONS **WERE MET**

OBJECTIVE #6

STRATEGIC TELECOMMUNICATIONS PLAN AND FIBER MAP

SURVEY RESULTS
83% OF PARTICIPANTS FELT EXPECTATIONS **WERE MET**

No CAV efforts were completed in 2019, though significant resources were assigned to projects within the State.

"This is critical for us to be a leader in the CAV/CATS space."

OVERALL CAV PROGRAM EVALUATION

Given that the MDOT SHA CAV program is well into its fourth year, the Working Group was asked to take everything into consideration, rate the entire CAV program to date, and provide feedback and recommendations. Overall, the program was ranked:

BELOW EXPECTATIONS	MET EXPECTATIONS	EXCEEDED EXPECTATIONS
0%	61%	39%