

Maryland Initiatives on Connected & Automated Vehicles

Smart Cities Roundtable

→ October 3, 2019 ←

MARYLAND CAV VISION & WORKING GROUP

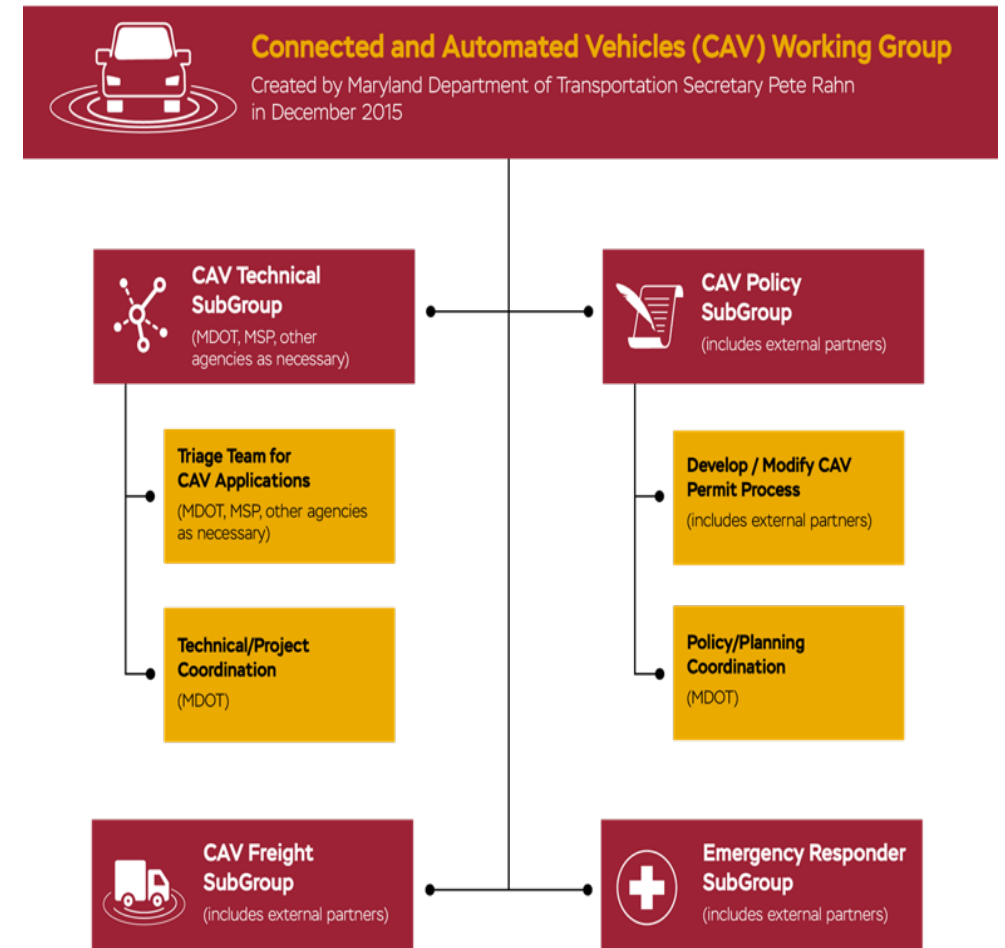
Uphold & enhance a **Safe, Efficient, and Equitable** transportation future by delivering collaborative and leading-edge CAV solutions.

Maryland is open for business and eager to realize the life-saving and economic benefits of CAV technology, while ensuring safety for all.

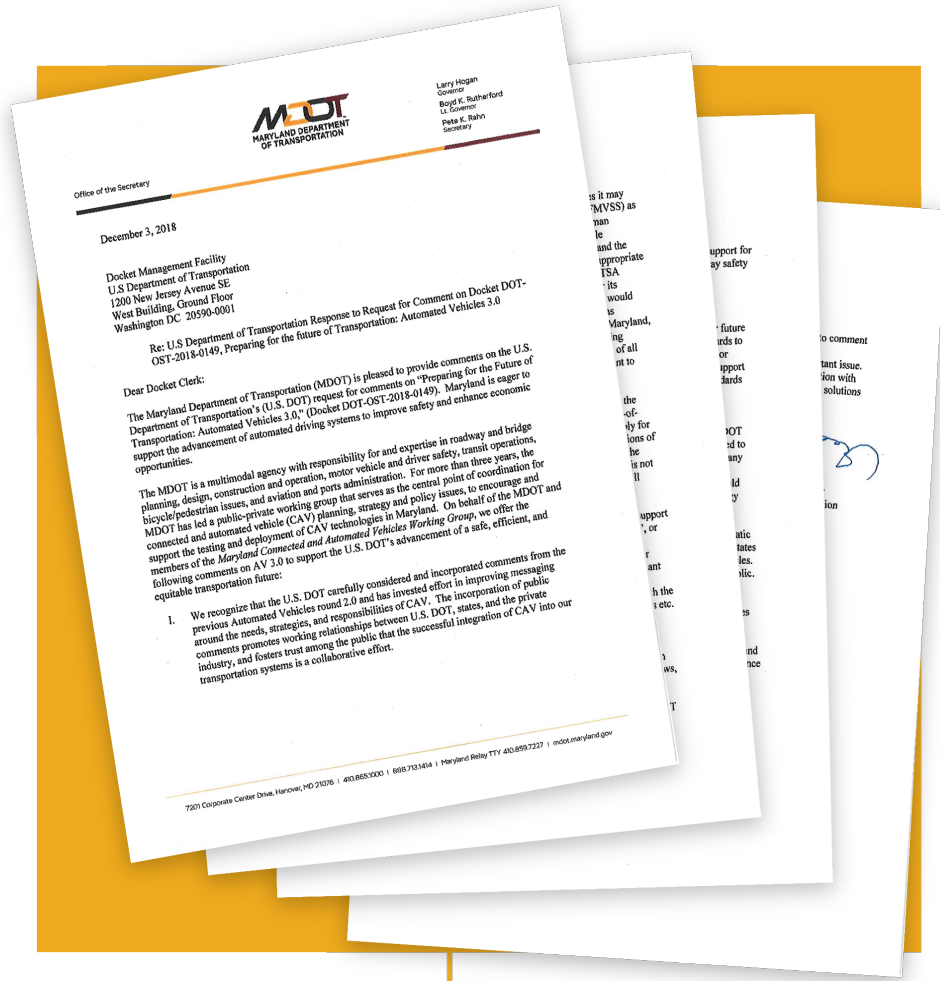
We are embracing CAV technology and innovation through continuing collaboration with partners interested in researching testing, and implementing CAVs in MD.

CAV Actions in Maryland

<http://mdot.maryland.gov/MarylandCAV>



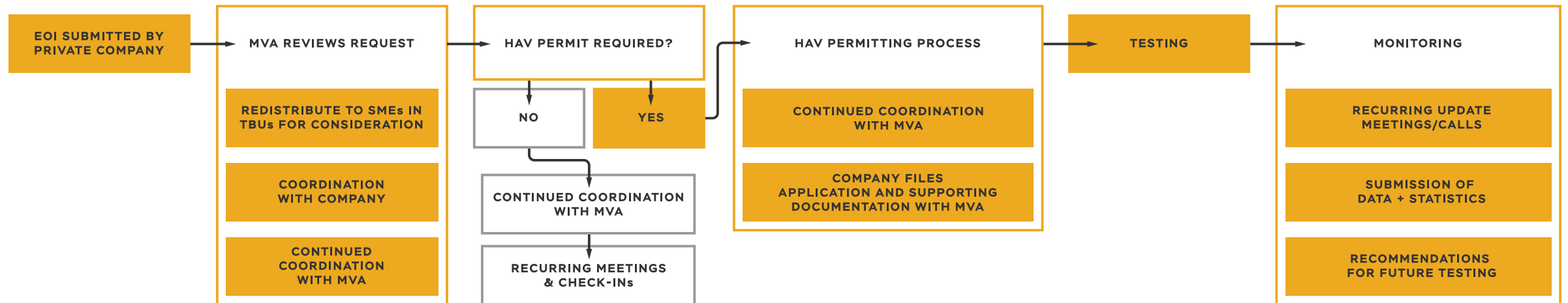
MDOT IS ACTIVE



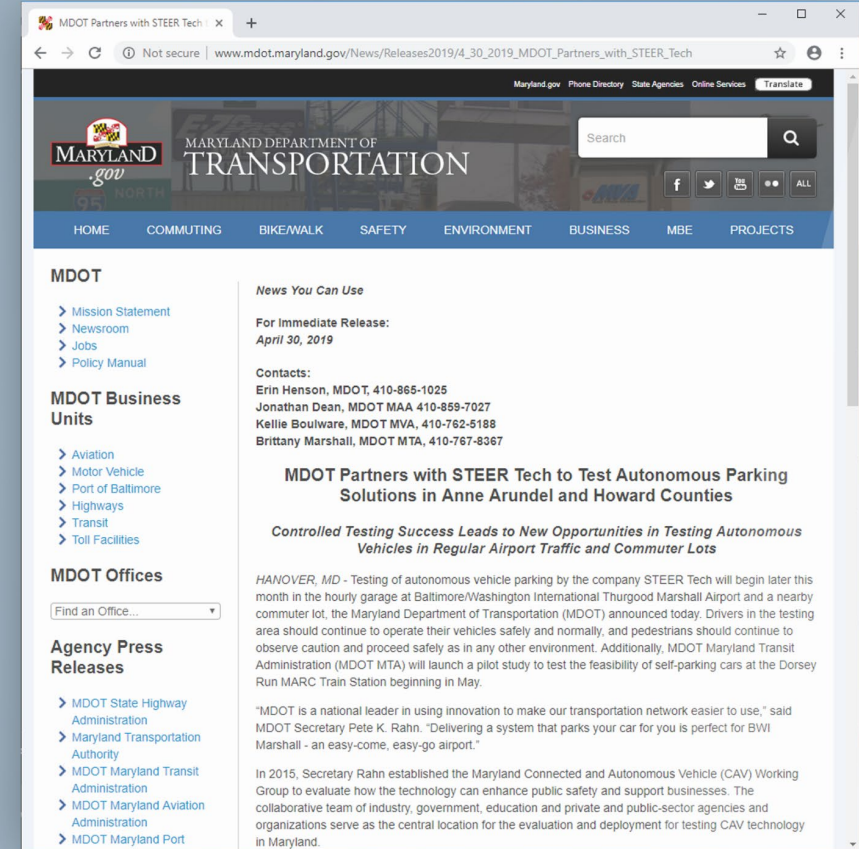
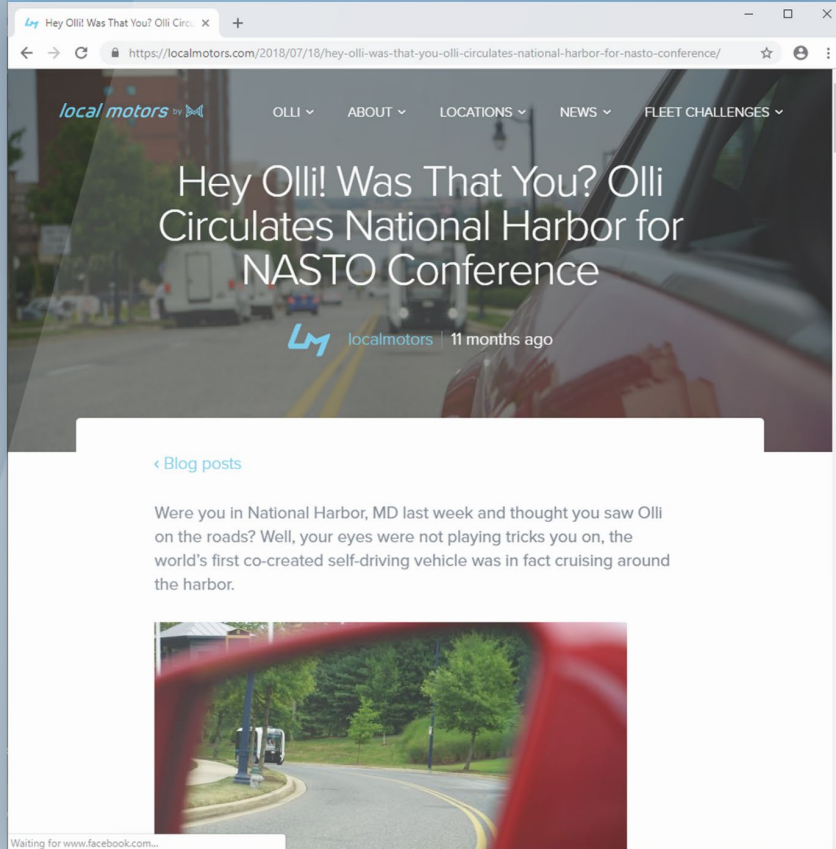
- ✓ MDOT MTA awarded first-ever CAV pilot under the TRB IDEA Transit program
- ✓ MDOT SHA advancing SPaT challenge along US 1
- ✓ MDTA continuing DSRC pilot testing - OBUs & RSUs
- ✓ Fostering workforce education internal to MDOT
- ✓ Initiated Mid-Atlantic I-95 CC CAV coordination
- ✓ Managing 21 EOIs for collaborative CAV efforts
- ✓ Currently 3 companies issued permits for HAV demonstration testing on public roadways

**MDOT RESPONSES TO
US DOT RFCs/RFIs,
ANPR, and AV 3.0**

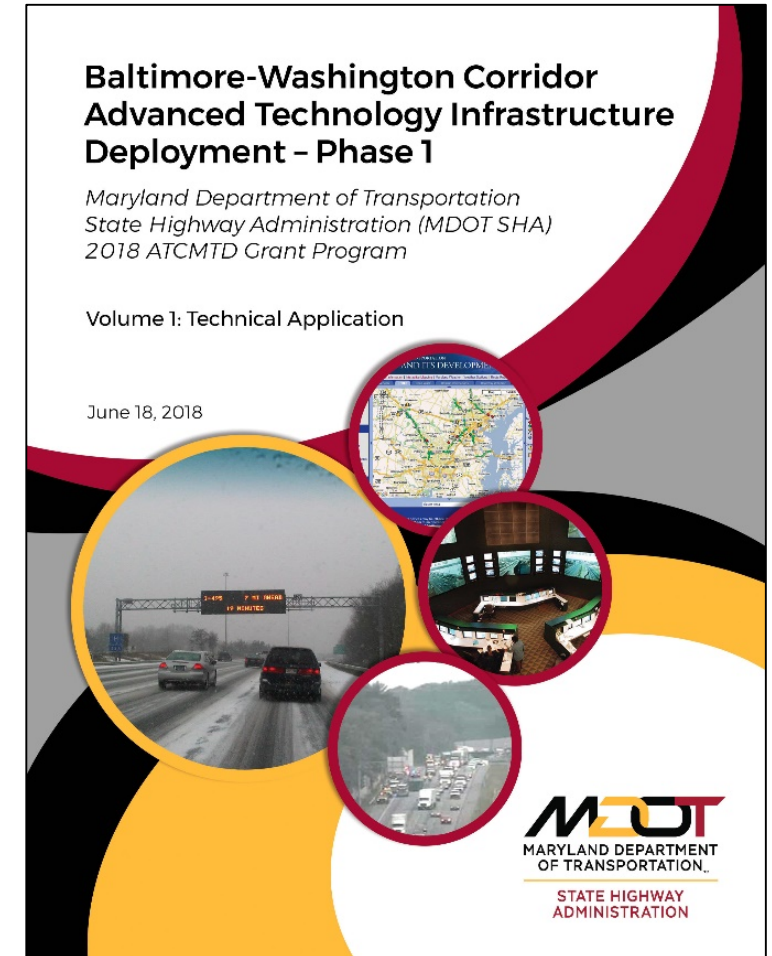
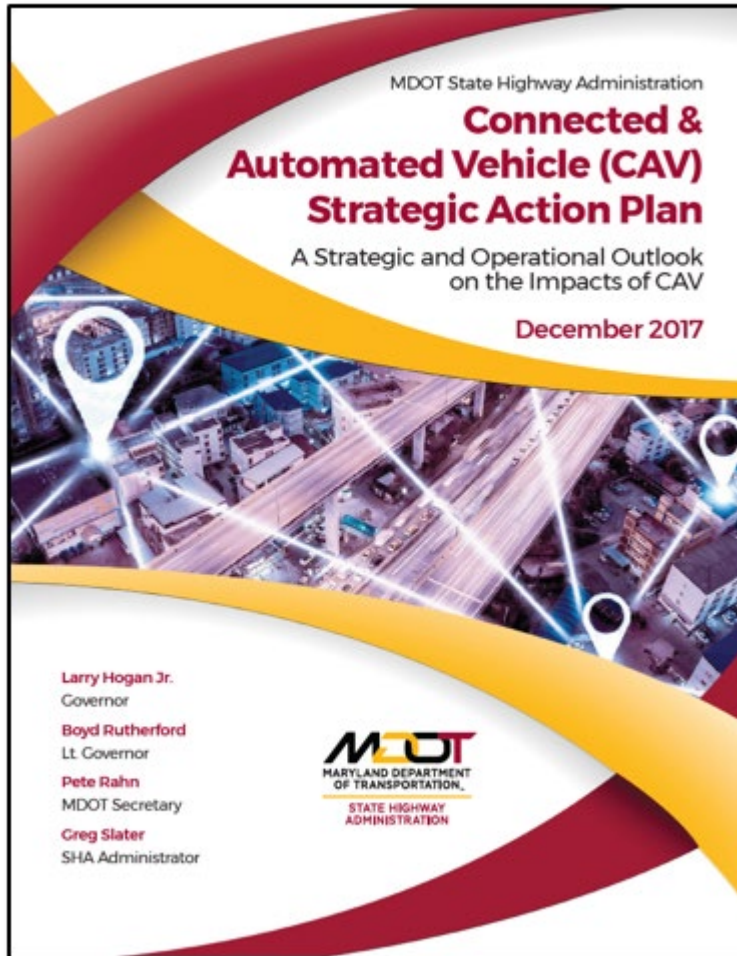
MARYLAND'S EXPRESSION OF INTEREST PROCESS



MARYLAND'S CURRENT DEPLOYMENTS



WHAT IS MDOT SHA DOING?



WHAT IS MDOT SHA DOING?



Connected &
Automated Vehicles

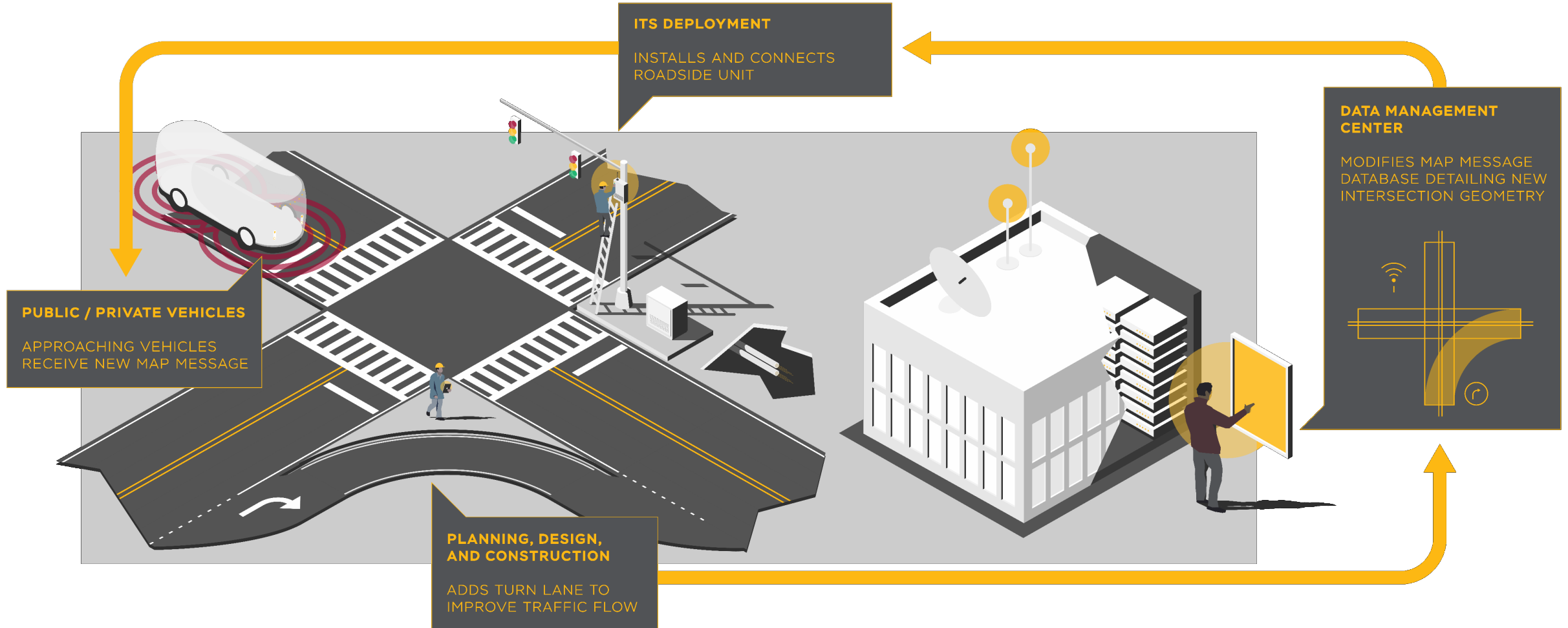
ONLINE LUNCH & LEARN



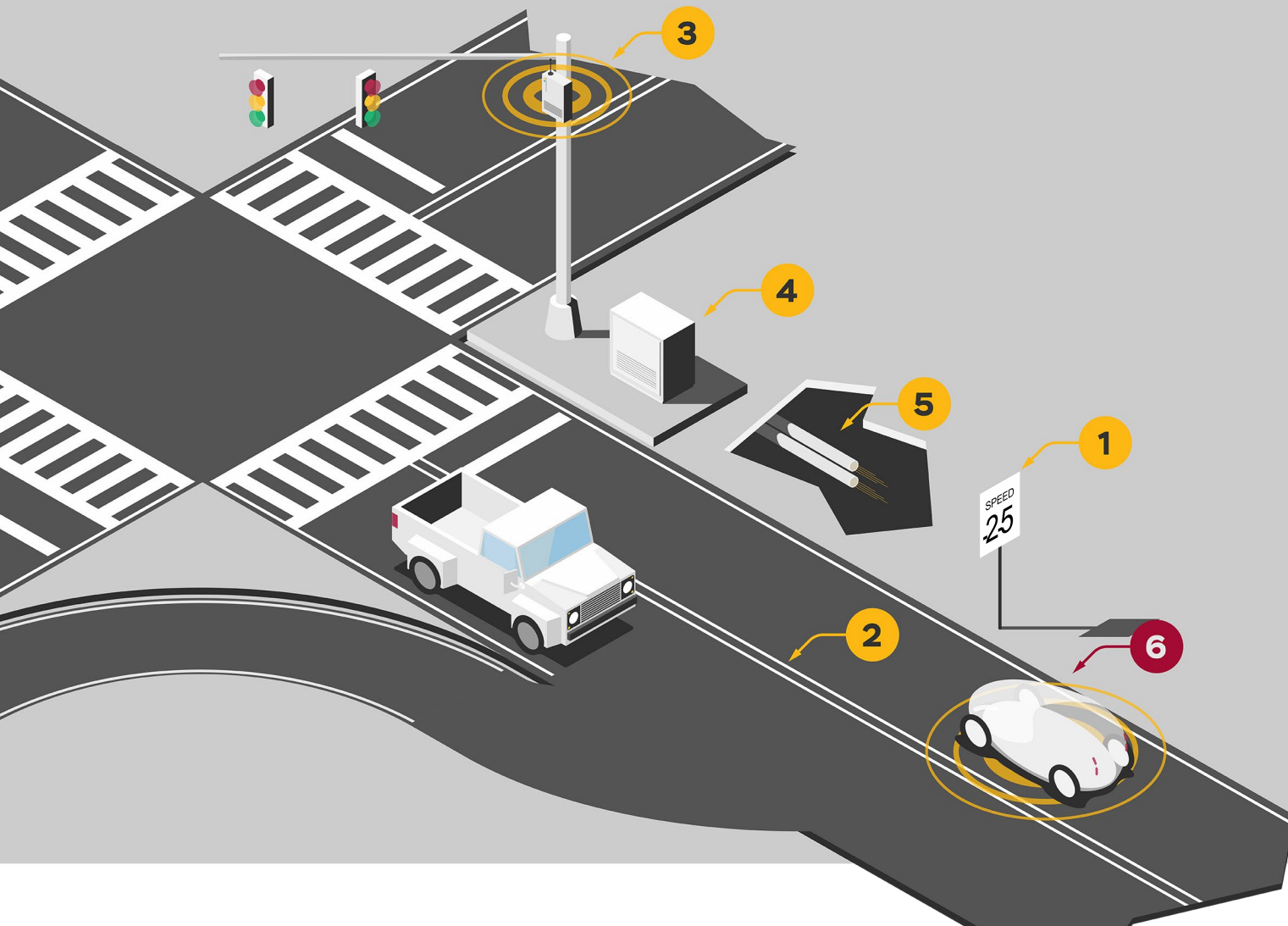
CAV 101 Interactive Training App



HOW MIGHT THE FUTURE LOOK?

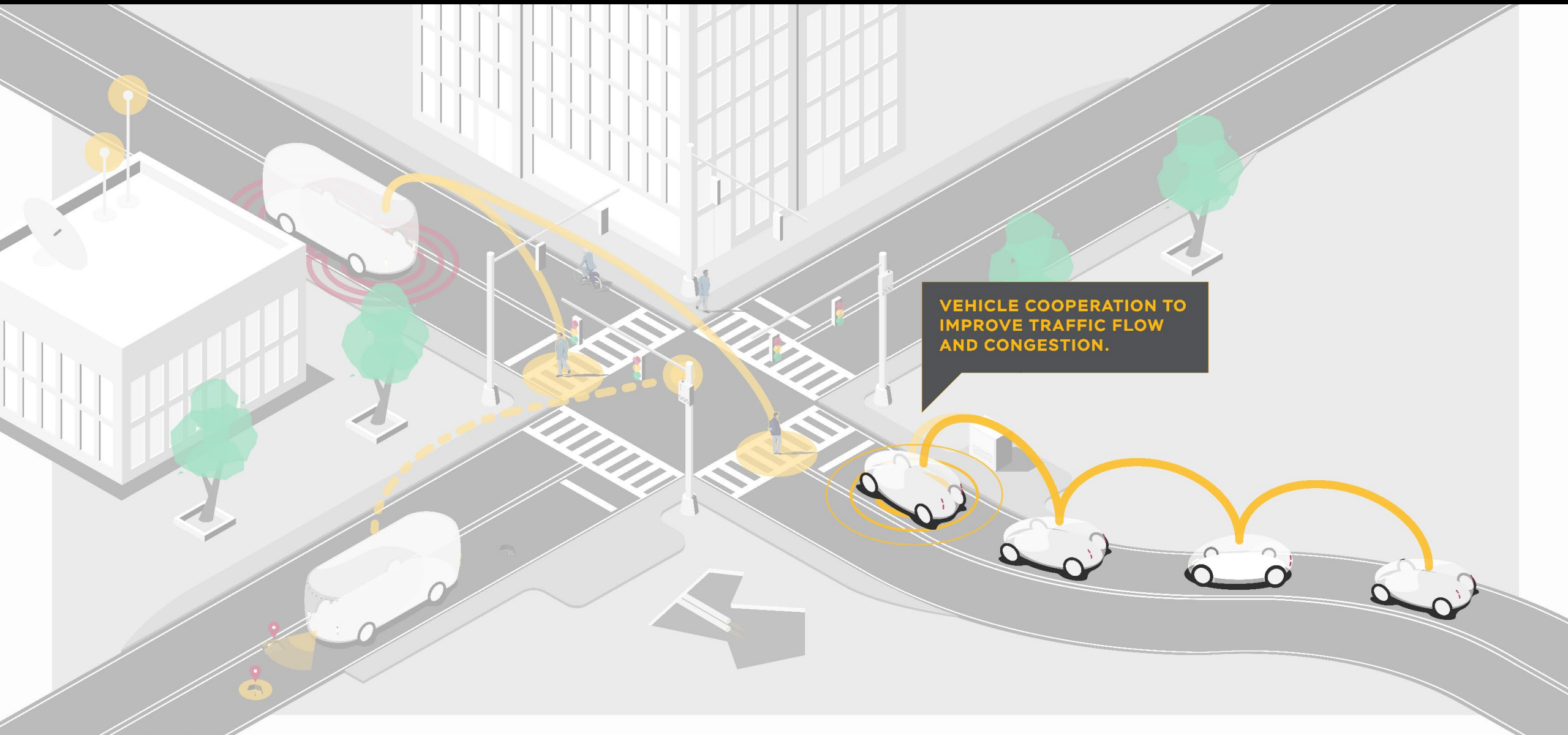


ASSET MANAGEMENT



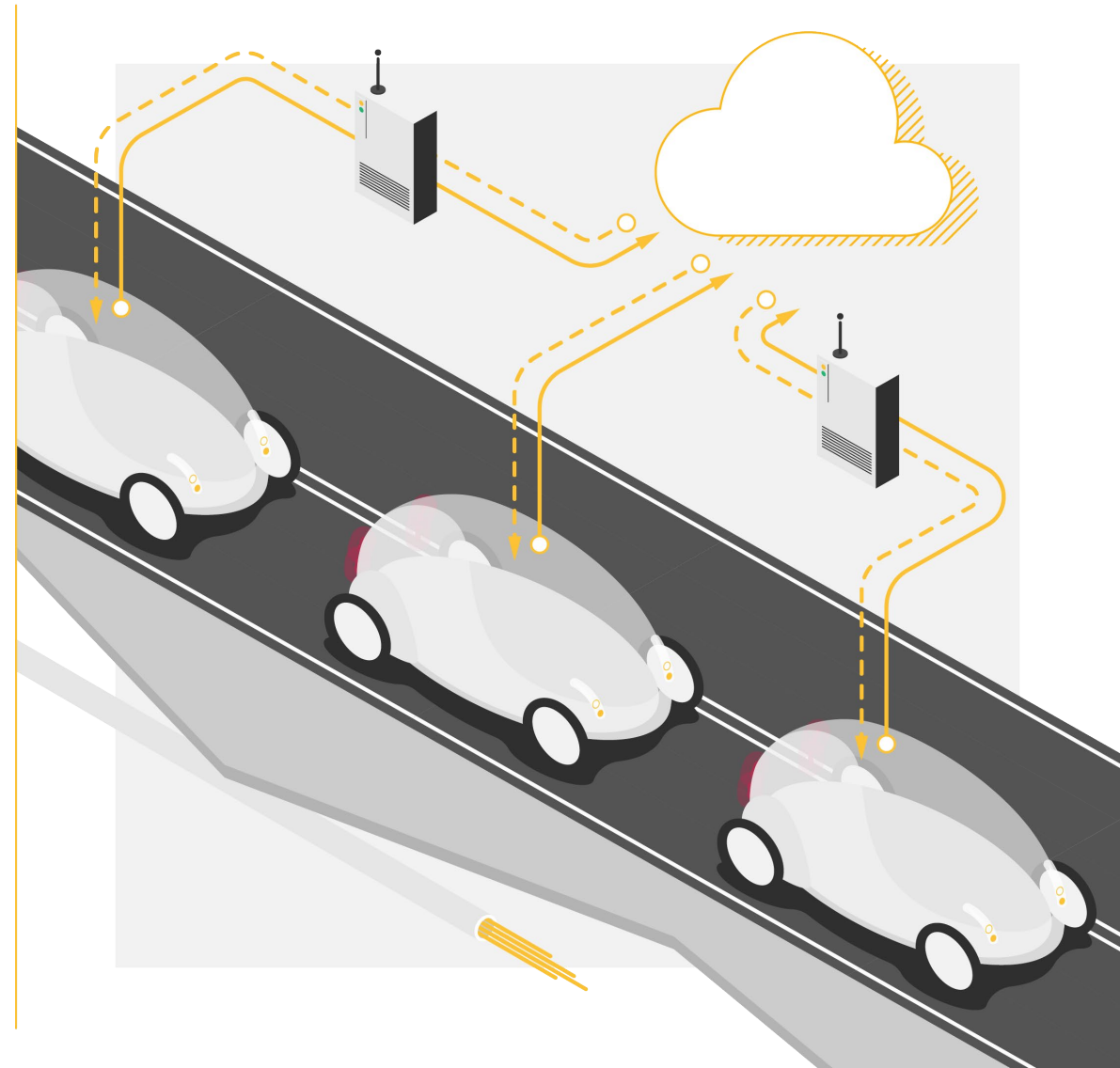
- 1 2 TRAFFIC CONTROL DEVICES IN GOOD CONDITION
- 3 RSU ONLINE AND BROADCASTING
- 4 TRAFFIC CABINET EQUIPMENT MAINTAINED
- 5 COMMUNICATIONS INFRASTRUCTURE MAINTAINED
- 6 **CAVs BROADCASTING PAVEMENT CONDITIONS**

→ ECOSYSTEM ←



DATA AND CYBERSECURITY

- **Cybersecurity concerns need to be addressed**
 - Need to verify that messages exchanged are trustworthy
 - Need to ensure vehicle data does not contain Personally Identifiable Information (PII)
- **What data are we concerned about?**
 - Data **produced** or **consumed** by Connected and Automated Vehicles
 - Data used in applications developed by MDOT SHA related to the CV deployments



PARKING INFRASTRUCTURE AND DESIGN

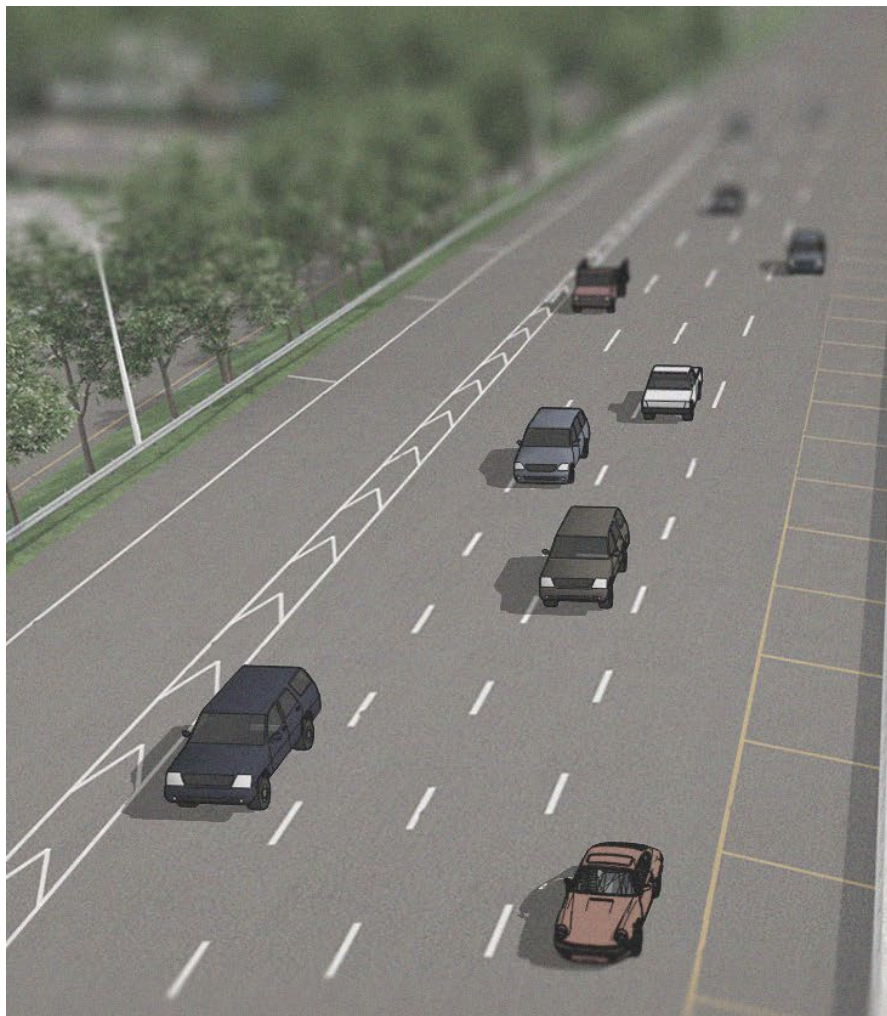


ON-DEMAND PICKUP

CAVs pickup passengers at a location of their choosing.

DROP OFF

→ ROADWAY DESIGN ←



PRESENT



CAV FUTURE

QUESTIONS?
THANK YOU!

CONTACT INFORMATION

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