

# Cooperative Adaptive Cruise Control (CACC)



## TRANSPORTATION NEEDS ADDRESSED



MOBILITY

## HOW COULD THIS HELP?

- ✓ Improves traffic flow stability and increases throughput
- ✓ Saves fuel and reduces emissions

## HOW DOES THIS WORK?

- ✓ An application aims to dynamically adjust and coordinate cruise control speeds among platooning vehicles to improve traffic flow stability and increase throughput.

## SOLUTION IMPROVEMENTS

- ✓ Unoptimized traffic speeds
- ✓ Distracted driving
- ✓ Excessive congestion

## SOLUTION PITFALLS

- ✓ Vehicles must be V2V equipped

Disclaimer: all content is for planning purposes only and published as of Summer 2020. Contact the author at [shacav@mdot.maryland.gov](mailto:shacav@mdot.maryland.gov) with any questions or comments.

### INVESTMENT

- + V2X ROADSIDE UNIT COST PER MILE-FREEWAYS  
**\$52,000**
- + V2X ROADSIDE UNIT COST PER INTERSECTION-SIGNALIZED CORRIDORS  
**N/A**
- + V2X SIGNAL CONTROLLER COST PER INTERSECTION-SIGNALIZED CORRIDORS  
**N/A**
- + FIBER OPTICS COST PER MILE  
**\$158,000**