Cooperative Adaptive Cruise Control (CACC)

**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.

**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

**TRANSPORTATION NEEDS ADDRESSED**
- 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 with any questions or comments.