Queue Warning (Q-WARN)

**HOW COULD THIS HELP?**
- Reduces congestion

**HOW DOES THIS WORK?**
- An application aims to provide drivers timely warnings of existing and impending queues.

**INVESTMENT**
- V2X ROADSIDE UNIT COST PER MILE-FREeways: $52,000
- V2X ROADside UNIT COST PER INTERSECTION-SIGNALIZED CORRIDORS: $26,000
- V2X SIGNAL CONTROLLER COST PER INTERSECTION-SIGNALIZED CORRIDORS: $10,000
- FIBER OPTICS COST PER MILE: $158,000

**TRANSPORTATION NEEDS Addressed**

**SOLUTION IMPROVEMENTS**
- Lack of knowledge of impending queues

**SOLUTION PITFALLS**
- Infrastructure and vehicle must be V2I 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.