Freight-Specific Dynamic Travel Planning and Performance

**HOW COULD THIS HELP?**

- Provides freight vehicles important route/safety information

**HOW DOES THIS WORK?**

- An application enhances traveler information systems to address specific freight needs.
- Provides information such as wait times at ports, road closures, work zones, and route restrictions.

**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**

- Mobility
- Freight

**SOLUTION IMPROVEMENTS**

- Unoptimized freight travel/performance

**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.