Vehicle Data Translator (VDT)

**HOW COULD THIS HELP?**
- Transmits road and atmospheric conditions data to other portions of road management network

**HOW DOES THIS WORK?**
- A complementary application that, when installed on road service vehicles such as snowplows, collects road and atmospheric conditions data and transmits them to other portions of the road weather management network.

**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**
- **ROAD WEATHER**
- **V2I**
- **SAFETY**
- Unoptimized road-weather data sharing
- Multi-car pile-up
- Roadway departure crashes

**SOLUTION IMPROVEMENTS**
- 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.