Spot Weather Impact Warning (SWIW)

**How could this help?**
- Reduces weather related crashes
- Reduces delays
- Reduces road closure time

**How does this work?**
An application warns drivers of local hazardous weather conditions by relaying management center and other weather data to roadside equipment, which then re-broadcasts to nearby vehicles.

**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

**Solution Improvements**
- Traffic delays and road closures due to weather related incidents
- Multi-car pile-up
- Rear-end collisions
- Roadway departure crashes

**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.