

# Spot Weather Impact Warning (SWIW)



## TRANSPORTATION NEEDS ADDRESSED



ROAD WEATHER



V2I



SAFETY

## 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.

## 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](mailto:shacav@mdot.maryland.gov) with any questions or comments.

## 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**