Red Light Violation Warning (RLVW)

HOW COULD THIS HELP?

- Warns of potential breaking of law
- Reduces fatal and serious injury crashes
- Reduces non-recurring delays on signalized corridors

HOW DOES THIS WORK?

- An application broadcasts signal phase and timing (SPat) and other data to the in-vehicle device.
- Warnings for impending red light violations are identified.
- This application in tandem with the Pedestrian in Signalized Crosswalk Warning application have the potential to address more than 250,000 crashes and 2,000 fatalities each year.

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

- Running Red Lights
- Intersection Crashes
- Distracted Driving

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.