

Red Light Violation Warning (RLVW)



TRANSPORTATION NEEDS ADDRESSED



V2I



SAFETY

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.

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.

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