

Multi-Modal Intelligent Traffic Safety System (MMITSS)



TRANSPORTATION NEEDS ADDRESSED



V2I



SAFETY

HOW COULD THIS HELP?

- ✓ Increases efficiency of traffic operations along with the safety of all modes of transportation

HOW DOES THIS WORK?

- ✓ To provide overarching system optimization that accommodates transit and freight signal priority, preemption for emergency vehicles, and pedestrian movements while maximizing overall arterial network performance.

SOLUTION IMPROVEMENTS

- ✓ Unoptimized multi-modal traffic management

SOLUTION PITFALLS

- ✓ Infrastructure and freight 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