

Eco-Traffic Signal Timing



TRANSPORTATION NEEDS ADDRESSED



ENVIRONMENT

HOW COULD THIS HELP?

- ✓ Optimizes the performance of traffic signals
- ✓ Reduces fuel consumption

HOW DOES THIS WORK?

- ✓ An application uses data collected wirelessly from vehicles (and other sources) to optimize the performance of traffic signals, thus reducing fuel consumption and emissions.

SOLUTION IMPROVEMENTS

- ✓ Unoptimized traffic signal timing efficiency
- ✓ Excessive emissions
- ✓ Excessive fuel consumption

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
N/A
- + 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