Eco-Traffic Signal Timing

HOW COULD THIS HELP?

- Optimizes the performance of traffic signals
- Reduces fuel consumption

SOLUTION IMPROVEMENTS

- Unoptimized traffic signal timing efficiency
- Excessive emissions
- Excessive 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.

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

ENVIRONMENT

TRANSPORTATION NEEDS ADDRESSED

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.