Eco-ICM Decision Support System

HOW COULD THIS HELP?

- Determines operational decisions that are environmentally beneficial to the corridor.

HOW DOES THIS WORK?

- An application uses historical, real-time, and predictive traffic and environmental data on arterials, freeways, and transit systems to determine operational decisions by system operators that are environmentally beneficial to the corridor.

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

ENVIRONMENT

SOLUTION IMPROVEMENTS

- Unoptimized operational decisions for environmental benefits
- Excessive emissions
- Excessive fuel consumption

SOLUTION PITFALLS

- Requires software application development
- Requires adequate environmental data

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.