# 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.

## 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.

**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**

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION