

Eco-Ramp Metering



TRANSPORTATION NEEDS ADDRESSED



ENVIRONMENT

HOW COULD THIS HELP?

- ✓ Saves fuel
- ✓ Reduces emissions

HOW DOES THIS WORK?

- ✓ An application collects traffic and environmental conditions data to determine the most environmentally efficient operation of traffic signals at freeway on-ramps and to manage the rate of entering vehicles.

SOLUTION IMPROVEMENTS

- ✓ Environmentally unoptimized freeway vehicle rate of entrance

SOLUTION PITFALLS

- ✓ Dependent on volume of probe vehicles for data and 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
N/A
- + V2X SIGNAL CONTROLLER COST PER INTERSECTION-SIGNALIZED CORRIDORS
N/A
- + FIBER OPTICS COST PER MILE
\$158,000