

Eco-Lanes Management



TRANSPORTATION NEEDS ADDRESSED



ENVIRONMENT

HOW COULD THIS HELP?

- ✔ Saves fuel and reduces emissions by defining the operations of eco-lanes

HOW DOES THIS WORK?

- ✔ An application establishes parameters and defines the operations of eco-lanes.
- ✔ Eco-lanes operate similar to existing managed lanes, but optimized for the environment.

SOLUTION IMPROVEMENTS

- ✔ Unoptimized use of eco-friendly vehicles/lanes
- ✔ Excessive emissions
- ✔ Excessive fuel consumption

SOLUTION PITFALLS

- ✔ May increase congestion if too few vehicles meet eco standards

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