

Low Emissions Zone Management



TRANSPORTATION NEEDS ADDRESSED



ENVIRONMENT

HOW COULD THIS HELP?

- ✓ Reduces emissions

HOW DOES THIS WORK?

- ✓ An application leverages connected vehicle technologies to enable the operation of low emissions zones.

ADDITIONAL INFORMATION

- ✓ Low Emissions Zones are geographic areas that seek to incentivize green transportation choices and deter high polluting vehicles from entering the zone.

SOLUTION IMPROVEMENTS

- ✓ High pollution vehicles entering dedicated low emissions zones

SOLUTION PITFALLS

- ✓ Infrastructure and vehicle must be V2I equipped
- ✓ 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