Low Emissions Zone Management

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.

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

- 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.