Eco-Speed Harmonization



TRANSPORTATION NEEDS ADDRESSED



ENVIRONMENT



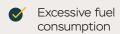
HOW COULD THIS HELP?

- Saves fuel
- Reduces emissions

HOW DOES THIS WORK?

An application determines speed limits optimized for the environment based on traffic conditions, weather information, and GHG and criteria pollutant information, allowing for speed harmonization in appropriate areas.

SOLUTION IMPROVEMENTS



Excessive emissions

SOLUTION PITFALLS

V

Infrastructure and vehicle must be V2I equipped.

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.

MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

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