Eco-Speed Harmonization

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 fuel consumption

- ✓ Excessive emissions

SOLUTION PITFALLS

- ✓ Infrastructure and vehicle must be V2I equipped.

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

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.

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