Dynamic Eco-Routing (Light Vehicle, Transit, Freight)

TRANSPORTATION NEEDS ADDRESSED

ENVIRONMENT

HOW COULD THIS HELP?

✓ Prioritizes economic impacts when creating driving route

HOW DOES THIS WORK?

✓ A navigation routing application determines the most eco-friendly route, in terms of minimizing fuel consumption or emissions, for individual travelers.

SOLUTION IMPROVEMENTS

✓ Excessive fuel consumption

✓ Excessive emissions

SOLUTION PITFALLS

✓ Requires software application development

✓ 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

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION