Connected Eco-Driving

HOW COULD THIS HELP?

✓ Saves fuel and reduces emissions

HOW DOES THIS WORK?

✓ An application uses V2I and V2V data to provide customized real-time driving advice to drivers, including recommended driving speeds and optimal acceleration/deceleration profiles, so that drivers can adjust their driving behavior to save fuel and reduce emissions.

SOLUTION IMPROVEMENTS

✓ Unoptimized vehicle efficiency

✓ Excessive emissions

✓ Excessive fuel consumption

SOLUTION PITFALLS

✓ Infrastructure and vehicle must be V2I/V2V 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

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION