

AFV Charging / Fueling Information



TRANSPORTATION NEEDS ADDRESSED



ENVIRONMENT



V2I

HOW COULD THIS HELP?

- ✓ Informs drivers of electric/alternative fuel vehicles as to locations and availability of fueling/charging

HOW DOES THIS WORK?

- ✓ An application informs travelers of locations and availability of alternative fuel vehicle charging and fueling stations and inductive/resonance charging infrastructure, thereby alleviating "range anxiety."

SOLUTION IMPROVEMENTS

- ✓ Electric vehicles experiencing short range
- ✓ Excessive emissions
- ✓ Excessive electricity consumption

SOLUTION PITFALLS

- ✓ Inductive charging technology still emerging and not mainstream

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