# Wireless Inductive/Resonance Charging



#### **HOW COULD THIS HELP?**



Charges electric vehicles wirelessly

Solves range issues

### **HOW DOES THIS WORK?**

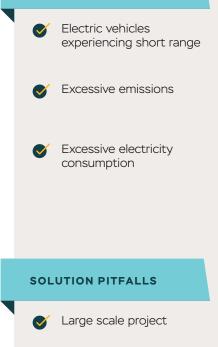
An infrastructure application uses magnetic fields embedded in the pavement to wirelessly transmit electric currents between metal coils thus enabling the wireless charging of electric vehicles while the vehicle is stopped or in motion.

ADDRESSED



**TRANSPORTATION NEEDS** 

#### SOLUTION IMPROVEMENTS





Disclaimer: all content is for planning purposes only and published as of Summer 2020. Contact the author at <u>shacav@mdot.maryland.gov</u> with any questions or comments.

MARYLAND DEPARTMENT OF TRANSPORTATION



## \$52,000

+ V2X ROADSIDE UNIT COST PER INTERSECTION-SIGNALIZED CORRIDORS

# \$26,000

**INVESTMENT** 

+ V2X SIGNAL CONTROLLER COST PER INTERSECTION-SIGNALIZED CORRIDORS

# \$10,000

+ FIBER OPTICS COST PER MILE

\$158,000