Enhanced Maintenance Decision Support System (MDSS)



HOW COULD THIS HELP?

Optimizes roadway treatment plans

HOW DOES THIS WORK?

An application could acquire road-weather data from connected and other general public vehicles to recommend treatment plans and weather response plans to snow plow operators, and drivers of maintenance vehicles.

TRANSPORTATION NEEDS ADDRESSED







SAFETY

SOLUTION **IMPROVEMENTS**



SOLUTION PITFALLS

Dependent on volume of probe vehicles for 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.

MOT MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

+ 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