

# CV-enabled Origin-Destination Studies



## TRANSPORTATION NEEDS ADDRESSED



AGENCY DATA

## HOW COULD THIS HELP?

- ✓ Gathers important roadway data for agencies to act upon
- ✓ Supports traffic management strategies, planning, and project development

## HOW DOES THIS WORK?

- ✓ An application uses connected vehicle technology to monitor the beginning and end points of a vehicle's journey and extrapolate the route in between.
- ✓ Provides information for use in planning and project development

## SOLUTION IMPROVEMENTS

- ✓ Data gathering optimization
- ✓ Route Optimization

## SOLUTION PITFALLS

- ✓ Infrastructure and vehicle must be V2I equipped

Disclaimer: all content is for planning purposes only and published as of Summer 2020. Contact the author at [shacav@mdot.maryland.gov](mailto: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**