CV-enabled Turning Movement & Intersection Analysis

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 paths self-reported by vehicles to track turning ratios, delay, and other intersection metrics.

- ✓ Provides information for use in planning, project development, and intersection improvements

SOLUTION IMPROVEMENTS

- ✓ Data gathering optimization

- ✓ CV enabled turning.

SOLUTION PITFALLS

- ✓ Infrastructure and vehicle must be V2I equipped

INVESTMENT

+ V2X ROADSIDE UNIT COST PER MILE-FREEWAYS

  N/A

+ 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