Connected & Automated Vehicle Technology

An emerging solution to congestion, incidents, and other challenges to transportation systems.





- Improves safety by eliminating driver error via automation.
- Will improve mobility as automation enhances traffic flow and network capacity.
- Reduces fuel consumption and gas emissions.

HOW DOES IT WORK?

- Interconnected and automated vehicle and infrastructure operations.
- Vehicles to communicate with one another and with transportation infrastructure, reducing the rate of incidents.
- Public and private sectors must collaborate to ensure safe and efficient implementation.

CONSIDERATIONS

- + PROPER TESTING OF CAV SYSTEMS MUST BE COMPLETED TO DEMONSTRATE SAFE IMPLEMENTATION.
- + RESOURCES NECESSARY FOR IMPLEMENTATION, OPERATIONS, AND MAINTENANCE OF CAV SYSTEMS MUST BE IDENTIFIED.



TRANSPORTATION NEEDS **ADDRESSED**



Capacity & Demand



Reliability



Travel Times



Mobility



Work Zones



Safety

Freight



Economic Development







Environmental Impact



Multimodality

COST MAGNITUDE

CAPITAL COST





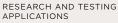


OPERATION AND MAINTENANCE COST











ROADWAYS SUITABLE FOR DEPLOYMENT OF VEHICLE-TO-**INFRASTRUCTURE TECHNOLOGIES**

COMPLIMENTARY **STRATEGIES**

TRANSIT PRIORITY



SMART SIGNALS



TRAVELER INFORMATION



SMART WORK ZONE



WORK ZONE MANAGEMENT

