The Safety Pilot Model Deployment is an important part of the U.S. Department of Transportation’s Intelligent Transportation Systems safety research program. It involves a large-scale test of “Connected Vehicle” technologies in a real-world, multi-modal setting. The program will determine the effectiveness of connected vehicle safety applications at reducing crashes, and will show how drivers respond to these technologies while operating a vehicle.

**PROJECT DETAILS**

- **TEST CONDUCTOR**
  A team led by the University of Michigan Transportation Research Institute
- **TIMEFRAME**
  August 2011 to February 2014
- **LOCATION**
  Ann Arbor, Michigan
  - All-season test environment
  - Mix of roadway types
  - Progressive local transportation agencies
  - Proximity to the auto industry
  - Community-based driver recruitment
- **SCOPE**
  - Equip more than 2,800 cars, trucks, and buses
  - Install multiple device types, including Vehicle Awareness Devices, Aftermarket Safety Devices, Retrofit Safety Devices, Roadside Equipment, and Deploy infrastructure
  - 21 signalized intersections
  - 3 curve locations
  - 5 freeway sites
  - Facilities to process data and to showcase the system
  - Signal Phase and Timing (SPaT) enabled arterial corridors
  - Collect one year of data to evaluate safety benefits and driver acceptance

**PROGRAM OVERVIEW**

- Demonstrate connected vehicle technologies in a real-world, multi-modal environment
- Determine driver acceptance of vehicle-based safety systems
- Evaluate feasibility, scalability, security and interoperability of Dedicated Short Range Communications technology
- Assess options to accelerate safety benefits
The Safety Pilot Model Deployment area includes more than 73 lane-miles of instrumented roadways.