Intelligent Transportation Systems in the Detroit Region

Building on an unrivaled automotive legacy, Detroit and Michigan remain at the forefront of innovation and R & D and are leading the global development of Connected Vehicle technology. Michigan boasts the largest deployment of video imaging for traffic management worldwide, the second largest system of adaptive traffic signals nationwide and the most extensive Connected Vehicle Test Beds globally. It’s the place to be to engage in intelligent mobility.
Michigan is home to the global headquarters of General Motors Company, Ford Motor Company and Fiat Chrysler Automobiles.

Of the top 100 automotive suppliers in the world, 63 are headquartered in Michigan.

Michigan is ranked No. 1 for North American car, truck and motor vehicle production, accounting for one out of every six vehicles made.

The Detroit region is the advanced battery center of the world and the leading developer of electric vehicles and plug-in hybrids, with $6 billion in investments since November 2008.

Michigan is home to 375 automotive R&D centers, 120 of which are foreign-owned.

Nearly $12 billion is invested annually in automotive R&D in Michigan with an estimated 65,000 engineering and technical professionals engaged in this endeavor.

The U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC) has had approximately 8,000 unmanned platforms in the field for use in Iraq and Afghanistan in the past decade.

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Michigan's post-secondary education institutions offer more than 650 automotive focused programs, 84 technology-related programs, and 16 nationally ranked undergraduate engineering programs.

Michigan colleges and universities graduate more than 6,000 engineers and engineering technicians each year, ranking Michigan 3rd in the U.S. for engineering degrees.

The University of Michigan is ranked 2nd in the nation for its robotics and autonomous vehicle program.

The University Research Corridor consisting of the University of Michigan, Michigan State University and Wayne State University conducts nearly $1.9 billion in federal research annually.
The U.S. is the global leader in ITS projects, with 177 of 400 projects worldwide.

The Michigan Department of Transportation has identified more than 120 applications in Connected-Vehicle Data Use that will benefit organizations in asset management, design, construction, mobility and operations.

To date, trucks that have been pre-qualified through PrePass, ITS technology allowing safe and qualified commercial vehicles to bypass inspection facilities, have completed 915,734 safe bypasses in Monroe County, saving motor carriers more than $7.9 million.

• The **University of Michigan’s Mobility Transformation Center** provides a 32-acre testing facility for connected technology. Initial partners include: Bosch, Econolite, Ford, GM, Toyota and Xerox.

• The **Southeast Michigan Test Bed** provides real-world, operational conditions that offer participants the supporting vehicles, infrastructure and equipment to serve the needs of public and private sector testing and certification activities.

• The **U.S. DOT - Ann Arbor Safety Pilot** will expand to equip 9,000 cars with wireless communication technology turning the city of Ann Arbor into a living laboratory for connected vehicle testing.

• The **City of Detroit Test Bed** is the only urban test bed environment in the U.S. providing testing in dense settings with urban canyon effect and tunnels.

• The **Michigan International Speedway Testing Facility** offers its 1,400 acre site to suppliers and automakers to test connected, automated and autonomous technologies.
The Detroit Regional Chamber represents a united 11-county area of Southeast Michigan. Home to more than 315,000 companies and 5.3 million people, the Detroit region provides a dynamic and cost-competitive environment capable of supporting today’s global businesses. Not only is the Detroit region the birthplace of the automotive industry, its premier manufacturing workforce, history of innovation and cluster of automotive R&D centers make it the ideal location for your company to invest in the future of mobility. Let the Chamber serve as your entry point into the region for Intelligent Transportation Systems.

Development Services

- Market intelligence and research, including workforce capacity and infrastructure.
- Customized regional site location assistance.
- Sources of capital and financing, tax credits and workforce training.
- Access to supply chain to meet procurement needs.
- Connections to key professionals to assist in business success.