Michigan has always been the leader of the automotive industry, and as vehicle and transportation technologies evolve in amazing ways, Michigan continues to lead the way.
The automotive industry is evolving rapidly and **Michigan is positioned to lead the world into the next generation of mobility**. Michigan has passed aggressive legislation for connected vehicle technology, along with commitments to investment in infrastructure through the Michigan Department of Transportation (MDOT). Private industry in Michigan continues to develop partnerships across mobility-related technology companies, in addition to leading the nation in mobility-related patents.

### Mobility Industry at a Glance

**Michigan ranks No. 1 in the nation in connected and automated vehicle projects** (49).

**1st** in mobility-related patents (data processing—vehicles, navigation, relative location), 2,583 patents awarded over the past five years in Michigan, followed by California with 1,468 patents issued.

**5,000** connected and automated vehicles on the road by 2018 in Ann Arbor’s Connected Vehicle Test Environment.

**100+** roadside units (RSU) installed on Michigan roads.

An average of **2,044** connected and automated vehicle-related monthly job postings in Michigan in 2016.

**350+** miles of freeways and arterials equipped for connected vehicles in Michigan by 2019.

**Michigan was among one of the 1st states to legalize self-driving vehicles on public roads.**

### Innovation Ecosystem

**Leading the next-generation mobility initiatives in Michigan include not only automakers and the supplier network, but also a well-developed technology, start-up and venture capital community.** Accelerators throughout the state provide services to entrepreneurs in mobility activities, while venture capital investments have seen significant growth over the past five years.

- **22** venture capital firms and **8** angel groups are active in the mobility space in Michigan, another **46** provide entrepreneurial support.

- MEDC’s entrepreneur and innovation team oversees the state’s entrepreneurial ecosystem, including Michigan’s **17** SmartZones featuring technology business accelerators that provide essential services to the start-up community.

- **Tech Insurance recently named Detroit one of the best places to live for tech entrepreneurs and 3rd most surprising cities for tech jobs.**

- **Technology leader Google and ride-sharing company Uber have established self-driving technology centers in Michigan.** Other tech companies investing in the state include AT&T, Verizon, LG and more.

- **Michigan continues to rank No. 1 in research spending-to-venture capital investment ratio in the nation.**

- **There are 141 venture-backed companies in Michigan, a 48% increase in the past five years.**

- **More than 20 start-ups and accelerators are actively involved in the mobility industry throughout the state.**
Michigan’s Commitments

Connected and Automated Vehicles

For over a decade, Michigan has led connected and automated vehicle research and projects in both the private and public sector. With the opening of federal test beds or progressive laws legalizing driverless vehicles on public roads, Michigan is the leader in next-generation mobility.

- 2007: Michigan hosts Cooperative Intersection Collision Avoidance System (CICAS) project.
- 2009: Michigan Department of Transportation Development and Test Environment in Novi opens.
- 2012: The $25 million Safety Pilot Model Deployment project in Ann Arbor begins.
- 2013: The first legislation for driverless vehicles in Michigan passes.
- 2014: The Detroit Test Bed opens, a unique urban testing environment that features 17 roadside units that collect data on the behaviors of connected vehicles to advance existing technologies.
- 2015: Mcity, a one-of-a-kind customizable urban test facility, opens in Ann Arbor and allows industry, government, and academia to come together to test and improve connect and autonomous vehicles.
- 2016: Michigan Department of Transportation (MDOT) expects to complete 350+ miles of equipped freeway and major arterial for connected vehicles.
- 2018: Michigan Department of Transportation (MDOT) expects to complete 350+ miles of equipped freeway and major arterial for connected vehicles.

Detroit hosts the 2014 ITS World Congress.

American Center for Mobility (ACM) breaks ground on a $110 million redevelopment. ACM is a testing and product development facility designed to enable validation of connected and automated vehicle technology, and accelerate the development of voluntary standards in the industry.

Mcity, a one-of-a-kind customizable urban test facility, opens in Ann Arbor and allows industry, government, and academia to come together to test and improve connect and autonomous vehicles.

American Center for Mobility officially opens its state-of-the-art proving grounds for testing.

The North American International Auto Show will be held in Detroit from January 13–28 and includes AutoMobili-D, featuring nearly 57 start-ups from around the world focused on a range of topics such as autonomy, connected vehicles, electrification, fleet management and more.

U.S. Department of Transportation (USDOT) announces $3 million federal TIGER grant for the Truck Parking Information and Management System (TPIMS) along I-94.

Legislation passes to enable Michigan as a leader in automated vehicle testing and self-driving vehicles, including ride-sharing services on public roads.

Smart Belt Coalition is formed as a collaboration in the ongoing development of connected and automated vehicles.

Michigan Council on Future Mobility is formed, made up of business and policy leaders, to advocate for changes related to automated, driverless and connected vehicle technology policy.

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Michigan's universities and colleges feature nationally ranked undergraduate and graduate engineering programs, according to 2016 U.S. News & World Report, while powering Michigan’s status as a top 10 state for degrees conferred.

The University of Michigan offers 19 top 10 ranked undergraduate (9) and graduate (10) engineering programs.

Michigan State University ranks as the No. 1 university in the world for supply chain management talent.

Michigan ranks 1st in the nation for commercial and industrial designers, employing 6,000 industrial designers across the state.

Michigan has 500+ FIRST Robotics teams, which is more than any other state in the nation.

Michigan is home to more than 123,000 engineers, creating the greatest concentration of skilled and engineering talent in the world.

In 2015, Michigan legislature made a $50 million investment to the Community College Skilled Trades Equipment Program, one of the largest investments of its kind.

Over 500,000 private-sector jobs have been added in Michigan since December 2010.

MEDC would like to thank the Detroit Regional Chamber and MICHauto for supplying the data in this report. The full report can be downloaded at michauto.org

For more information on Michigan’s mobility ecosystem and to get involved, please visit planetm.com or contact Trevor Pawl at pawlt@michigan.org.