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Key Messaging

PlanetM

- PlanetM is Michigan’s economic development program designed to match mobility companies and investors with partners and resources to help them innovate and grow at a faster pace.
- PlanetM is a partnership of mobility organizations, communities, educational institutions, research and development, and government agencies working together to develop and deploy the mobility technologies driving the future.
  - Available to any mobility-focused company or investor, PlanetM is also a no-cost, concierge service that connects you to Michigan’s automotive ecosystem — the people, places and resources dedicated to the evolution of transportation mobility.
- PlanetM is a marketing campaign to show the world that nowhere else on the planet has the capabilities to lead into the next generation of mobility efforts like Michigan does.
- The journey toward the future of Connected and Autonomous Vehicle (CAV) technology and Intelligent Transportation Systems (ITS) is accelerated through PlanetM by facilitating connections, helping the mobility industry grow at a faster rate.
  - This moves us closer to a reality of enhanced mobility that can save thousands of lives lost per year due to auto accidents caused by human error.

Michigan

- Michigan is the capital of the global automotive industry. Known for putting the world on wheels over a century ago, today it continues to be the place for businesses, researchers and entrepreneurs shaping the next transportation frontier.
- Michigan leads the world in the development and integration of intelligent connected vehicles and was among the first states to legalize self-driving vehicles, including ride-sharing services on public roads.
- Michigan is committed to embracing the future of mobility and understanding its societal impacts as connected and self-driving vehicle development evolves.
- Michigan is home to three global autonomous vehicle testing facilities: Mcity, at the University of Michigan; the American Center for Mobility; and the GM Mobility Research Center at Kettering University. Together they cover the full range of urban and highway high-speed testing scenarios.
- Michigan’s efforts to drive collaboration and groundbreaking legislation are driving the state forward in autonomous and connected vehicle technology.
- The North American International Auto Show is held annually in Detroit and is among the largest auto shows in North America.
  - Detroit’s North American International Auto Show includes AutoMobili-D, a next generation mobility-focused event.
- Schools and universities in Michigan have specialized programs that focus on automotive technology and design, infrastructure, and other emerging mobility technologies. This includes K-12 programs, community colleges, and university programs at numerous notable and nationally ranked universities:
  - Kettering University
Michigan State University
- Michigan Technological University
- University of Michigan
- Washtenaw Community College
- Wayne State University

- Michigan institutions, like Michigan Technological University and University of Michigan, have proving grounds and test tracks for research.

**Facts and Stats**  
*Last update: 09-07-18*

**Industry & Testing**
- 76% percent of North American automotive R&D takes place in Michigan and a total of $10 billion is spent on R&D each year in the state.\(^1\)
- Michigan is home to 27 assembly plants and more than 2,200 facilities that conduct automotive research, design, engineering, testing and validation.\(^2\)
- Since 2010, Michigan has received $25 billion in OEM and supplier investment, more than any other state or province in North America.\(^3\)
- Michigan has the greatest concentration of OEMs in the world, with 16 total in the state.\(^4\)
- The tech industry in Michigan added 13,200 jobs in 2017, which is third only to California and Texas.\(^5\)
- Home to the most extensive system of test beds in the world, Michigan leads the nation in mobility-related patents with 2,583 over the past five years.\(^6\)
- In 2012, nearly 3,000 connected vehicles were deployed in Ann Arbor and is the longest running and largest real-world CV deployment in existence – accumulating more than 45 million miles of experience.
  - In 2018, more than 100 additional vehicles will be added as well as expanding the infrastructure footprint to cover the entire city of Ann Arbor including surface streets and freeways.

**Talent**
- Michigan is home to over 123,000 engineers,\(^7\) creating the greatest concentration of skilled and engineering talent in the world. This talent helps fuel 96 of the top 100 North American auto suppliers,\(^8\) more than 14,000 manufacturing facilities,\(^9\) and 19% of U.S. auto production.\(^10\)
- Michigan has more FIRST Robotics teams than any other state in the nation.

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\(^1\) National Science Foundation  
\(^2\) Detroit Regional Chamber  
\(^3\) Detroit Regional Chamber  
\(^4\) Detroit Regional Chamber  
\(^5\) www.cyberstates.org  
\(^6\) MICHauto 2017 report  
\(^7\) https://e.economicmodeling.com/analyst/?t=2LYQW#h=9Q7rW&page=occupation_table  
\(^8\) MICHauto 2017 report  
\(^9\) https://mni.net/info/michigan-manufacturers-directory  
\(^10\) Center for Automotive Research (CAR)
A partner of PlanetM, The Square One Education Network funds and enables STEM projects for K-12 teachers and students.
  o Square One is developing a V2X (Vehicle to Everything) connected vehicle technology program that is highly relevant, highly visible, resource rich, project-based and affordable/scalable for teachers in grades 9-12.

Michigan is a top 10 state in the nation for STEM degree completions.

Quality of Life / Cost of Living

A salary of 88% more in New York City and 98% more in San Francisco would be required to enjoy a comparable standard of living found in Detroit.\textsuperscript{11}

Recent PlanetM Announcements/Successes

- 3M and MDOT collaborate to test V2I technologies along I-75 | May 2017
- First international border crossing with Continental and Magna | July 2017
- Expanded AutoMobil-D options with PlanetM awards, matchmaking services | September 2017
- TARDEC and MDOT test four military trucks across the Blue Water Bridge | October 2017
- PlanetM Landing Zone opened | October 2017
- VC FAM Trip in Michigan; and VC trip to California | October 2017
- ACM garners additional investors in Visteon, Hyundai, Ford | Fall 2017
- Mcity announces second phase of industry funding with 11 companies and $11M | October 2017 (announcement at ITS)
- CAR completes Future Cities report to help communities prepare (report) | October 2017
- Google’s Waymo Announces expanded presence/winter testing in Novi | October 2017
- US-23 Flex Route opened | November 2017
- Ford announces more plans to invest at Flat Rock facility, including autonomous vehicle development | December 2017
- ACM officially opens | December 2017
- MICHauto study shows more students interested in auto industry as career than three years ago | December 2017

\textsuperscript{11} Detroit Regional Chamber
PlanetM Business Development Services

PlanetM is the state’s mobility brand created to coordinate all mobility assets within Michigan

- PlanetM’s business development and marketing activities strengthen Michigan’s position as the center for global mobility by leveraging technology, companies, marketing materials and assets. This program provides world-class customer service and creates programming on-demand to attract and retain mobility-focused companies.
- PlanetM focuses on the following four goals:
  1. **Increase PlanetM Brand Awareness and Understanding** – Achieved through supporting MEDC’s overall marketing strategies, research, partnerships and event activation.
  2. **Increase Matchmaking Between Mobility-Focused Audiences** – Achieved through original programming that deepens company relationships based on needs, innovations and interests.
  3. **Better Coordination of Mobility Assets** – Achieved through active, positive relations with in-state mobility assets, partners and governments.
  4. **More Mobility-Focused Investment in Michigan** – Achieved through new or strengthened referral systems that generate testing, deployment, retention, expansion and attraction projects and investment.
- The PlanetM platform has three core business development offerings; technology activation, company connections and asset coordination.

Technology Activation

- (i) Grant funding provided to startups to validate and commercialize their technology; (ii) facilitate pilot programs with cities and corporates to implement new technology. “There is no better place to test and pilot your technology than in Michigan”
  - Testing Site Grants: Grant opportunity for mobility startups to have more access to Michigan’s world-class proving grounds. In turn, this will increase testing site usage. Current partners are Mcity (Ann Arbor), American Center for Mobility (Ypsilanti Township) and Kettering University (Flint).
  - Technology Deployment Grants: Grant opportunity for mobility startups and growing tech firms to affordably deploy relevant technology on Michigan roads. Completed project with MDOT and DERQ (startup) in the City of Detroit.
  - Mobility Pilot Facilitation: Help cities and counties prioritize mobility challenges, and then match them with solution-providers to run real-world pilots. Facilitated pilot programs in Grand Rapids, Ann Arbor and Detroit where we collaborated with public and private partners to create mobility solutions

Business Connections

- Over 1,600 qualified business development introductions for Michigan mobility companies, assets and partners that have led to over $12.5M USD in facilitated revenue for Michigan companies (in less than one year)
o Mobility Matchmaking Services: Programming that connects startups, automakers, suppliers, investors and strategic partners based on need or interest area.

o PlanetM Landing Zone: Partnership with the Detroit Regional Chamber to create a mobility epicenter where startups with connected and automated transportation technologies can connect with Michigan’s automotive and economic development ecosystem. Since launching in October 2017, the Downtown Detroit space has over 30 global mobility companies.
  • Companies already in the space include Ford, Bosch, Lyft, Autoliv, Mobiliti, Trillium, DriveSmart, MapBox, and DERQ

Asset Coordination

• Streamline and strengthen communication lines and collaboration opportunities between key economic development stakeholders.
  o Mobility Mission and Delegation Support: Includes Michigan Visibility tour with attracting venture firms to Detroit and our delegation going to CES, SXSW, Israel, Germany, etc.
  o Management of Governor’s Mobility Advisory Structure: Lead coordination of (and between) member groups. The structure has four focuses:
    • Policy: Council on Future Mobility (Monthly)
    • Industry Development: PlanetM Advisory Board (Quarterly)
    • Asset Collaboration: Michigan Mobility Steering Committee (Monthly)
    • Economic Developer Collaboration: Mission Control (Monthly)

• We’re focused on the VC market
  o PlanetM is working to familiarize out-of-state VC’s with our mobility ecosystem. So far, we have made over 350 connections between this group and OEMs, tier ones, local VCs, government organizations, universities and startups.

• We’re taking PlanetM to Silicon Valley
  o We also target out-of-state tech clusters to offer our resources and updates on Michigan’s mobility ecosystem. This year we met with 50 executives in Silicon Valley, engaged with 4 of the world’s largest technology companies, 15 mobility-focused startups and 5 venture capital firms.
  o PlanetM representatives coordinate monthly trips to Silicon Valley to meet with companies and to strengthen the mobility partnership between California and Michigan.

• We’re making NAIAS and AutoMobili-D even bigger and better
  o In 2018 we created the PlanetM-hosted “M Awards” to recognize mobility startups in six categories: Autonomous Driving, Connected Car Technologies, E-Mobility, Mobility Services, Smart Cities and Best-In-Class (best technology within exhibition). Winners received hardware for their exhibit, free workspace in Detroit for a year and access to other economic development resources.
  o We created PlanetM Match Meetings that are customized, prescheduled matchmaking between VCs, startup, OEMs, suppliers and universities. Interested companies should visit the AutoMobiliD website (http://naias.com/about/amd/).
  o We’re partnering with Techstars to launch our second PlanetM-Techstars Pitch Competition for some of the world’s greatest mobility focused startups to sell
their ideas to a distinguished panel of judges, while investors and clients look on. Winners will receive cash prizes and investment opportunities.

- PlanetM’s Target Audience
  - Michigan OEMs and Tier-1 Suppliers
  - Mobility Startups (Local and Global)
  - Mobility Investment Firms (Local and Global)
  - Michigan Governments (State and Local)
  - Michigan Mobility Assets
  - Michigan Economic Developers
PlanetM Partners

Mcity

- Mcity is a public-private partnership led by the University of Michigan. It is the only advanced mobility R&D center that combines early-stage research; testing in the state-of-the art real-world environment of the Mcity Test Facility; and on road-vehicle deployments to further prove new technologies.
- The Mcity Test Facility is a 32-acre connected and automated vehicle testing site, with more than 16 acres of roads and traffic infrastructure. It opened in 2015 on U-M’s North Campus.
- Mcity simulates the broad range of complexities vehicles encounter in urban and suburban environments.
- It includes approximately five lane-miles of roads with intersections, traffic signs and signals, sidewalks, benches, simulated buildings, streetlights, and obstacles such as construction barriers.
- **UPDATES**
  - In June 2018, Mcity launched the first driverless shuttle project in the United States to focus on user behavior research and extensive data collection. Using two shuttles transporting U-M students, faculty, and staff on a portion of the U-M campus, Mcity is studying how passengers and other road users — including bicyclists, pedestrians and human drivers -- react to the shuttles as a way to gauge consumer acceptance of the technology.
  - New, augmented reality capability lets researchers put hundreds of virtual vehicles on the road inside the Mcity Test Facility that can interact with and respond to real vehicles in real time, creating a more robust testing environment that helps speed innovation and development.
  - The Mcity Test Facility logged nearly 3,100 hours of use between January 2017 and June 2018, primarily for testing. Mcity also hosted hundreds of tours of the test facility for industry, government and private groups.
  - In the last two years, 10 companies and more than 100 students have been involved with TechLab at Mcity, U-M’s incubator for early stage mobility companies.
  - Mcity has invested $24 million in research and vehicle deployments.

American Center for Mobility (ACM)

- The American Center for Mobility officially opened in December 2017 and serves as a national center for connected and automated vehicle (CAV) research, testing, product development, validation, and certification.
- With more than 500 acres and up to 12 configurable test environments, ACM is used by government, industry, and academia to create and set industry standards. Environments offer diverse driving areas including a 2.4-mile high-speed highway loop, two triple overpasses that incorporate public roadways, 1.5 mile inter urban arterial road and many other environments that replicate real world test scenarios.
- ACM is one of 10 U.S. Department of Transportation designed Automated Vehicle Proving Grounds in the US.
• ACM’s pillars of focus are testing, validation and education with significant activity taking place within each pillar to address needs from industry, academia and the public sector.

• In support of its education pillar, ACM established a 23-member Academic Consortium enabling Michigan colleges and universities to collaborate on workforce transformation.
  o The first project produced under the education pillar includes an ACM commissioned study led by Michigan State University and supported by Texas A&M Transportation Institute. The research was funded by ACM, Waymo, AARP and the Toyota Research Institute and examined how CAVs impact on the workforce.

• ACM’s work in testing and validation led to the creation of the International Facilities for Automated and Connected Transportation (IFACT), bringing together test facilities from AstaZero AB (Sweden), K-City (Republic of Korea), Centre of Excellence for Testing and Research for AVs – NTU (CETRAN) (Singapore) with the goal of accelerating standards development focused on CAV testing and data sharing.

• UPDATES
  o Visteon has partnered with the American Center for Mobility as a founding member with a $5 million investment. Visteon is the first Tier 1 supplier to partner with a national automated vehicle proving ground, and will work to develop its Visteon DriveCore autonomous driving platform.
  o Further validating the need for a future mobility facility, Hyundai also announced its support as a $5M founder – the 5th company to invest to date (including Ford in September).
  o In 2018, the U.S. Department of Energy (U.S. DOE) awarded ACM $2.4 million for research involving fuel-efficient platooning on highways.

UMTRI
• The University of Michigan Transportation Research Institute’s (UMTRI) is dedicated to achieving safe and sustainable transportation for a global society with research focusing on driver behavior, injury biomechanics, data fusion, connected vehicles, and more.

• UPDATES
  o In September of 2012, UMTRI and the USDOT – in collaboration with eight major automotive manufacturers – launched a $30M pilot program that transformed the northeast quadrant of Ann Arbor into a test site for vehicle-to-vehicle and vehicle-to-infrastructure safety applications.
  o Part of a joint research initiative led by the National Highway Traffic Safety Administration, the program involves 2,850 personal and commercial vehicles and more than 73 miles of city roads and streets equipped with connected technology infrastructure, making it the largest connected vehicle, street level pilot project ever conducted.
  o The data resulting from this 30-month project is being used by USDOT to estimate safety factors in support of future policy decisions.
  o In 2015, a $15M expansion turned the entire city into a connected community. The Ann Arbor Connected Vehicle Test Environment aims to become the world’s largest operational, real-world deployment of connected vehicles and infrastructure.
In 2017, the Univ. of Michigan was awarded a University Transportation Center by USDOT to focus on other aspects of connected and automated technologies, worth up to $12.5M over 5 years.

The Center for Connected and Automated Transportation (CCAT) is going beyond the roadway and focusing on the critical issues such as policy, tech-transfer, education, training and filling the talent pipeline.

MDOT Partnerships and Projects

- MDOT has undergone a comprehensive deployment strategy based on collaboration with the industry to determine their needs for advanced testing and proximity to their R&D facilities.
- Freeway deployments take into consideration challenges the motoring public and commodities encounter, and how this technology can assist with issues such as weather, congestion, safety and heavy freight traffic.
- Created an advanced data collection system to improve mobility, pavement detection, and responsive traveler information that improves safety for the public and creates efficiencies in operations for road agencies.
- Developing specifications for next generation of adaptive traffic signals for certification in areas such as hardware security and interoperability.
- MDOT is currently undertaking a wide range of projects and initiatives aimed at meeting department goals for the Connected Vehicle (CV) program. The Michigan DOT is currently in the process of expanding its CV infrastructure to create one of the largest infrastructure deployments in the entire world. The current deployment plan entails having 500 miles equipped by the end of FY19.

FY17-19 MDOT Connected Vehicle Infrastructure projects which include the deployment of Connected Vehicle infrastructure (DSRC RSUs) and V2I safety/mobility applications:

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Corridor</th>
<th>Project Limits</th>
</tr>
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<tbody>
<tr>
<td>FY17/18</td>
<td>I-696</td>
<td>I-96 to I-94</td>
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<tr>
<td></td>
<td>M-53</td>
<td>M-59 to I-696</td>
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<tr>
<td></td>
<td>I-96</td>
<td>Detroit to I-275/I-96 interchange</td>
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<tr>
<td></td>
<td>I-275</td>
<td>I-96/M-14 to I-75</td>
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<tr>
<td></td>
<td>I-94</td>
<td>BWB to Wayne/Washtenaw County Line</td>
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<tr>
<td></td>
<td>Jefferson</td>
<td>Griswold to Beaubien</td>
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<tr>
<td>FY18/19</td>
<td>I-69</td>
<td>BWB to Lapeer County Line</td>
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<tr>
<td></td>
<td>M-14</td>
<td>I-275 to Washtenaw County Line</td>
</tr>
<tr>
<td></td>
<td>M-10</td>
<td>I-696 to M-8</td>
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<tr>
<td></td>
<td>I-75</td>
<td>Junction to 12 Mile</td>
</tr>
<tr>
<td></td>
<td>M-8</td>
<td>Woodward to Joseph Campau</td>
</tr>
<tr>
<td></td>
<td>I-75</td>
<td>M-59 to Genessee County Line</td>
</tr>
</tbody>
</table>
Current active Smart Corridor Infrastructure Deployments/Partnership initiatives

US23 Flex Route
- US-23/M-14 tri-level interchange on the south end to M-36 on the north end. The recurring peak period congestion and frequency of crashes resulting in lane and road closures triggered MDOT to think of alternative Intelligent Transportation Systems (ITS) solutions, such as an Active Traffic Management (ATM) system.
- The current system termed Flex Route by MDOT, is an ATM that promotes safety and helps manage rush hour and seasonal traffic congestion by utilizing the median shoulder as a temporary third lane.
- This corridor has been developed with the supporting infrastructure necessary to add Connected Vehicle infrastructure and applications easily. This will be a location where MDOT can test the utilization of CV applications for Active Traffic Management.

I-94 Road Weather Program
- Washtenaw/Wayne County line easterly to Blue Water Bridge. MDOT is deploying DSRC communications along I-94 through a significant portion Southeast Michigan to support weather-related V2I applications.
- This section of freeway exhibits a high crash rate due to weather related incidents because of unique terrain and geography.
- This deployment provides an opportunity to integrate CV and weather-related systems to test applications that could warn motorists of micro-level weather conditions to reduce associated crashes.

M-53 SPaT/Transit Signal Priority Deployment
- Various locations in Macomb County. MDOT is partnering with the Suburban Mobility Authority for Regional Transportation (SMART), the suburban transit system for the Detroit region, and Macomb County to provide transit signal priority using CV-technologies to SMART buses along key routes.
- The deployment leverages roadside and onboard DSRC units as a mechanism to communicate priority calls to the signal controller to provide improved travel time reliability and reduce travel delays.

I-275 Curve Speed Warning Deployment
- I-96/M-14 to I-75. MDOT is collaborating with multiple industry partners on supporting testing of curve speed warning V2I applications.
• DSRC units are being deployed along the I-275 corridor at key mainline and ramp curve locations, which will enable broadcast of curve geometric and advisory speed data to support in-vehicle warning applications.

US-12 Test Bed Deployment
• Ypsilanti Township. In support of the American Center for Mobility, MDOT deployed DSRC RSUs along the US-12 corridor near ACM.
• This corridor, adjacent to the ACM site, connects I-94 and I-275, in what will become a connected loop surrounding this AV test site, allowing for test vehicles to proceed off the test site and into a connected open-road environment to further testing and certification efforts.
• The deployment supports the conversion of US-12 that created a high-speed track for advanced testing at the ACM facility.

Mound Road Signal Phase and Timing (SPaT) Deployment
• Warren. In support of testing activities near the General Motors Technical Center, MDOT in partnership with the Macomb County Department of Roads (MCDR), deployed connected vehicle infrastructure at two intersections along the Mound Road corridor. In addition, a supporting portable unit was deployed inside the Tech Center campus enabling the broadcast of Signal Phase and Timing (SPaT) data to connected vehicles to test safety and mobility applications.
• The deployment required significant collaboration to generate messages adhering to the most recent standards established by the Society of Automotive Engineers (SAE), and coordination of communications through the MCDR signal system, and to the DUAP system servers in order to capture data over the network.

Auburn Hills Test Bed Deployment
• In partnership with the Road Commission for Oakland County (RCOC), MDOT is working with Fiat Chrysler Automobiles (FCA) on deploying RSUs at several intersections around the FCA campus in Auburn Hills to support the testing needs of FCA and their supplier partners.
• The three initial RSUs (with ten additional planned for a future deployment phase) will support SPaT broadcast, and data capture for FCA testing and analytics.
• The deployment includes the addition of D4 signal controllers, which were successfully deployed for SPaT functionality in Macomb County.

I-75 Test Bed Deployment
• MDOT entered a partnership with 3M that positioned Michigan as the first state to test connected vehicle infrastructure in a live work zone. This partnership allowed Michigan suppliers and OEM’s to validate their applications with 3M products in this real-world environment.
• Temporary RSUs being provisioned will broadcast work zone messages to support testing of work zone information and safety applications.
• Oakland County. As part of ongoing I-75 Modernization project, a $1B+ 6-year improvement project, MDOT continues to deploy RSUs to support construction activities, testing, and long-term operational needs in the corridor.
• Each construction segment includes provisioning of permanent RSUs co-located at all ITS sites along the corridor.

I-69 Truck Platooning Test Support
• St. Clair County. The U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC) located in Warren, Michigan, is the Army's leading developer of ground vehicle technology.
• Collaborating with MDOT is a natural fit, as Michigan's roadways provide TARDEC with the ability to test new capabilities nearby in a spectrum of real-world environments.
• TARDEC and MDOT conducted testing of dedicated short-range radio (DSRC) systems between roadside radios and TARDEC convoy vehicles on I-69 Freeway and the International border crossing (Blue Water Bridge) between Port Huron, MI and Sarnia, Canada.
• These tests pave the way for future TARDEC tests of its advanced platooning and automated driving technologies, whose use on public roadways will require effective and efficient digital communication with civilian vehicles and infrastructure.

MDOT/Private Sector Partnering
• 3M: In addition to the ongoing testing of the I-75 work zone, permanent deployments will allow for 24/7/365 testing on the freeway, selected interchanges and the local road system allowing for more partners to utilize the testing environment for continued development of technology.
• GM: Cadillac CTS successfully demonstrated receiving real time data from traffic controllers advising drivers of potential red-light violations while testing cybersecurity and firewall measures.
• Continental/Magna: first successful bi-national border crossing using connected and automated vehicle technology. This testing provided the opportunity for both suppliers to validate their CAV applications by adapting to shifting roadways and structural differences between highways, fully submerged tunnels and bridges.
• TARDEC: Testing dedicated short range communications for throttle, braking and steering of army convoy vehicles in several platooning exercises.
Government Partnerships

- MOU with Ontario presenting a unique opportunity to facilitate testing and development at an international level.
- LOI with Texas to collaborate on the deployment of smart, connected infrastructure to support on-demand mobility services with each state offering different geographic, roadway and weather environments that will accelerate the learning curve to provide sustainable solutions.
- LOI with Ohio and Pennsylvania to accelerate long distance solutions as part of the Smart Belt Corridor, a multi-agency and academic consortium dedicated to providing advancements in the region.
- Gov. Rick Snyder and Assistant Minister to the Deputy Prime Minister Andrew Broad of Australia signed a MOU to collaborate on high tech vehicle and road systems that will improve transportation safety.
- Other MOUs signed with other countries include:
  - United Kingdom
  - Netherlands
  - The People’s Republic of China

Council of Future Mobility

- Since its first meeting in March, the council has met nearly every month with a series of presentations and discussions to elevate member understanding of mobility and technologies associated with connected and highly automated vehicles and has issued two statutorily mandated annual reports, most recently in March 2018. Some of the work of council members is undertaken by task groups, which engage in more detailed discussion and develop specific policy recommendations for submission to the entire council.
  - Cyber Security Task Group – cyber-attacks on automated vehicles and critical infrastructure; data-sharing framework for best practices; penalties for malicious sharing of data.
  - Legal and Insurance Task Group – extensive review of the Michigan Compiled Laws, especially the Vehicle Code and Insurance Code; established the Michigan Journal of Mobility Law to be resident at UM law school.
  - Strategy Task Group – investigating how Michigan can lead in areas of technology associated with connected and highly automated vehicle systems; creating benchmarks for bringing research and development of connected and automated vehicles to the state; determining how to facilitate the integration of connected vehicles in certain communities rapidly.
- Sponsoring a public-private partnership among automotive OEMs, Continental and MDOT to create a hyper-accurate, high definition map of the state’s roadways to be used in research and development of highly automated vehicle technologies. Continental will mount sensors on MDOT and other state and local government vehicles to collect road data, which will be ultimately available to any public or private entity conducting research in Michigan royalty free. Once completed, Michigan will be the only state in the union with such a research asset.
**Boilerplates**

**PlanetM**
MEDC’s PlanetM initiative is a partnership of mobility organizations, communities, educational institutions, and government agencies working together to develop and deploy the mobility technologies driving the future. Michigan has always been the leader of the automotive industry, and as vehicle and transportation technologies continue to evolve in amazing ways, Michigan is leading the way. To learn more visit: www.PlanetM.com.

**PlanetM Landing Zone**
Located in Detroit, the PlanetM Landing Zone is the physical entry point for global mobility startups (autonomous, connected, electric or shared transportation technology companies) interested in exploring and developing business with the North American automotive industry. Launched in October 2017, current Landing Zone members include Ford, Bosch, DriveSmart, MapBox, Spatial AI, SPLIT, DERQ, and Qumulo with expressed interest from a variety of mobility startups and global mobility tech companies. PlanetM Landing Zone services include: supplier matchmaking; mobility meetups and curated events; targeted introductions to industry partners; talent recruiting assistance; discounted professional services, and gap funding for testing, deployment, events, and Landing Zone office space. For more information, visit PlanetMLandingZone.com.