

Press Release

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Siemens strengthens position in connected and autonomous vehicles through partnership with American Center for Mobility

Siemens PLM Software and the Michigan-based American Center for Mobility (ACM) announced today a new partnership that brings Siemens' Simulation and Test solution for Automotive to ACM to support virtual and physical testing and validation of automated and connected vehicles. Siemens is already part of similar strategic initiatives in Singapore and the Netherlands, once considered to be early adopters of AV technology, applications and solutions and now leaders in the testing and deployment of autonomous vehicles and infrastructure in real-world environments. Siemens PLM Software is proud to partner with other leading companies in supporting ACM including AT&T, Visteon Corporation, Toyota, Ford and Hyundai America Technical Center Inc., Microsoft, Subaru of America, Inc., and Adient. As ACM's preferred simulation provider, Siemens PLM Software secures a seat on ACM's Industry Advisory Board which will help advance its already strong position in autonomous vehicles and automotive overall.

Included in the Siemens Simulation and Test solution for Automotive is Simcenter™ PreScan™ software for virtual simulation, developed by recently acquired TASS International and now part of the [Simcenter™](#) portfolio. The partnership was formalized on April 25th in the presence of Michigan Governor Snyder, who at the same day signed a Memorandum of Understanding with the Dutch government on supporting innovation and deployment of connected and automated vehicle technologies.

“The technology enabling connected and autonomous vehicles and the new era of mobility is changing rapidly. It is essential we collaborate on policy, regulations, and standards to make transportation safe and more accessible for all,” Snyder said. “This partnership between Siemens PLM Software and ACM shows the global nature of the work that needs to be done.”

“We are thrilled to partner with Siemens to provide these important virtual technologies which play a critical role in developing an integrated toolchain for testing and validation,” said John Maddox, ACM President and CEO. “This is extremely important to help us enable the development of validation methodologies and regulations for the safe deployment of these technologies on public roads.”

The Simcenter PreScan simulation environment produces highly realistic, physics-based simulation of raw sensor data for potential driving scenarios and traffic situations. With its already strong portfolio enhanced by the addition of products and services from recent acquisitions such as TASS International and Mentor Graphics, Siemens PLM Software is able to

provide an end-to-end tool suite and services, supporting the entire testing and validation methodology that combines virtual, mixed and physical reality.

“Our unique and complete representation of the digital twin integrates electronics, software and hardware based systems. Because we cover all three of these disciplines in our digital twin, we can use these twins to run accurate simulations of the complex vehicle behavior found in autonomous vehicle systems,” said Tony Hemmelgarn, CEO of Siemens PLM Software. “Multi-physics simulation is critical for autonomous vehicles, where the digital twin can drive billions of virtual miles and our solutions can predict exactly what’s going to happen in the real world.”

One of 10 federally-designated proving grounds for developing and testing self-driving vehicles, the American Center for Mobility provides a myriad of real-world environments with the ability to test under a range of driving environments and infrastructure that includes a 2.5-mile highway loop, a 700-foot curved tunnel, two double overpasses, intersections and roundabouts. TASS International, a Siemens business, was an integral part of the original development of the center, using its modeling and realization expertise to conduct high-level layout and feasibility studies that led to the center in its current form today. TASS International operates several laboratories in the Netherlands, including a unique facility for testing and validation of intelligent transportation systems and cooperative driving technologies.

“A one-of-a-kind facility like ACM where we can reliably, and safely push the boundaries of today’s technologies provides a unique advantage to our business and our automotive customers,” stated Jan van den Oetelaar, CEO of TASS International. “Siemens is currently at the nexus of the fast-changing virtual and physical worlds of transportation – and thanks to the ACM, we will now be able to jointly advance the development of our products and services to support industry, insurance and authorities in the validation of automated and connected systems.”

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Siemens PLM Software, a business unit of the Siemens Digital Factory Division, is a leading global provider of software solutions to drive the digital transformation of industry, creating new opportunities for manufacturers to realize innovation. With headquarters in Plano, Texas, and over 140,000 customers worldwide, Siemens PLM Software works with companies of all sizes to transform the way ideas come to life, the way products are realized, and the way products and assets in operation are used and understood. For more information on Siemens PLM Software products and services, visit www.siemens.com/plm.

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for 170 years. The company is active around the globe, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in

laboratory diagnostics as well as clinical IT. In fiscal 2017, which ended on September 30, 2017, Siemens generated revenue of €83.0 billion and net income of €6.2 billion. At the end of September 2017, the company had around 372,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

The American Center for Mobility is a nonprofit testing, education and product development facility for future mobility, designed to enable safe validation and self-certification of connected and automated vehicle technology, and to accelerate the development of voluntary standards. ACM is one of 10 U.S. DOT designated Automated Vehicle Proving Grounds in the U.S. The Center is a joint initiative with the State of Michigan founded in partnership with the Michigan Department of Transportation, the Michigan Economic Development Corporation, the University of Michigan, Business Leaders for Michigan and Ann Arbor SPARK. It is also part of PlanetM, a collaborative that represents Michigan's unique and vast mobility ecosystem, connecting resources and opportunities for its consortium of members. To learn more about ACM, visit www.acmwillowrun.org.

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