

Siemens Mobility and the City of Düsseldorf jointly open digital automotive test track

- **Siemens Mobility provides intelligent road infrastructure including, Road Side Unit (RSU), communications networking and telematics for near-real-time exchange of information between vehicles and infrastructure**
- **Facility uses automated and connected vehicle technology to prepare for tomorrow's roads**

Today, the city of Düsseldorf officially opened a cutting-edge automated and connected vehicle test track, which is a 20 km road dedicated to the advancement of connected and autonomous vehicle technology. Featuring Siemens Mobility technology, the digital test field highlights the latest intelligent traffic technologies, which is preparing the region for automated and autonomous traffic of the future.

“We are proud to be a partner with the City of Düsseldorf on this important project, which is laying the ground work for the future of road mobility in Germany. The test track is the first of its kind in Germany and our technologies will reduce traffic congestion, enhance safety and provide more availability of mass transit as we continue to move towards vehicle autonomy,” said Manfred Fuhg, Head of Siemens Mobility Germany.

The project has four key Siemens Mobility components. The Road Side Units (RSU), communication units, allow for near-real-time information exchange between vehicles and infrastructure. These safety-critical network elements are installed and located at each of the four intersections with a signal. The second technology is an integrated SPAT (Signal Phase and Timing) unit, which forecasts green and red-light timing and transmits via RSU to vehicles. In addition, Siemens Mobility vehicle

on-board units are used for vehicle-to-infrastructure communication. In the test field, these systems are used for public transport signal prioritization with 16 Rheinbahn buses. This Car-to-X (C2X) technology is the first of its kind in Germany. The Rheinbahn vehicles are also equipped with satellite positioning to test public transport privileges (i.e. right of way, designated lanes, etc.). When implemented in connected vehicle traffic settings, these technologies reduce traffic congestion, help improve safety and reduce environmental impact of traffic emissions.

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Siemens Mobility is a separately managed company of Siemens AG. As a leader in transport solutions for more than 160 years, Siemens Mobility is constantly innovating its portfolio in its core areas of rolling stock, rail automation and electrification, turnkey systems, intelligent traffic systems as well as related services. With digitalization, Siemens Mobility is enabling mobility operators worldwide to make infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience and guarantee availability. In fiscal year 2017, which ended on September 30, 2017, the former Siemens Mobility Division posted revenue of €8.1 billion and had around 28,400 employees worldwide. Further information is available at: www.siemens.com/mobility.