

Siemens Mobility presents world's first autonomous tram

- **Joint research and development project with ViP Verkehrsbetriebe Potsdam GmbH**
- **World premiere at InnoTrans 2018**
- **Demonstration runs in real traffic**

Siemens Mobility, together with ViP Verkehrsbetrieb Potsdam GmbH, will be presenting their research project on the world's first autonomous tram at InnoTrans 2018. On a six-kilometer section of the tram network in Potsdam, Germany, Siemens Mobility will be demonstrating a test tram driving autonomously in real traffic on September 18 through 21.

ViP has provided a Siemens Combino tram for the project. This experimental vehicle is equipped with multiple lidar, radar and camera sensors that serve as "digital eyes" by capturing the tram and its traffic environment. At the same time, complex algorithms function as a "brain" by interpreting and evaluating data from the momentary operating situation, providing a prognosis for further development of the situation, then triggering an appropriate response by the tram. Thanks to its artificial intelligence capability, the tram responds to trackside tram signals, stops at tram stops, and reacts autonomously to hazards such as crossing pedestrians and other vehicles. Siemens Mobility is the first company to launch an autonomous tram for research and development purposes.

"This world premiere demonstrates how we are actively shaping the mobility of the future. Our autonomous tram can already master essential operating tasks in real road traffic at this stage of development. By relying on the "Siemens Tram Assistant"

collision warning system being used in, among other places, our Avenio M tram operating in Ulm, Germany, we have already reached series maturity – an important milestone on the way to autonomous driving. By making trains and infrastructure intelligent, we can guarantee availability and enhance safety in local and long-distance travel,” said Sabrina Soussan, CEO of Siemens Mobility.

The experimental tram being used to demonstrate autonomous driving at the world premiere is not designed for commercial use. The current project aims at identifying the technological challenges of autonomous driving under real-life conditions, then developing and testing solutions for them. A continuation of the cooperation is already being discussed with ViP.

This press release and additional material are available at:

www.siemens.com/press/innotrans2018

Contact for journalists

Eva Haupenthal

Phone: +49 89 636 24421; E-mail: eva.haupenthal@siemens.com

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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 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.