

Munich, March 2, 2018

Siemens to supply signaling technology for metro line extension in Singapore

- **World's longest suburban fully automated metro line**
- **Increasing the capacity and availability**
- **More than half a million passengers every day**

Siemens is to supply signaling technology for the planned Downtown line 3 (DTL3) extension in Singapore. The order, worth around €90 Mio, comprises the delivery of Siemens' Communications-Based Train Control system (CBTC) for fully automated operations (Grade of Automation 4, GoA4), in 2 new stations and one depot. The order also includes the Platform Screen Doors for the 2 stations. The 2.2 kilometers Downtown Line 3 Extension is due for completion in 2024. With this extension, the Downtown Line will be connected with the Thomson-East Coast Line (TEL), providing commuters more travel options within the rail Singapore mass transit network.

"With this project, Singapore's Downtown line is not only the world's longest suburban automated metro line, but it is also benefiting from the most advanced CBTC technology. This enables the operator to strengthen the capacity and availability of the network, and contributes to improve the passenger experience of up to half a million people commuting every day," said Michael Peter, CEO of the Siemens Mobility Division.

Siemens successfully commissioned the first 3 sections of Downtown Line (DTL) in Singapore, that is now considered the world's longest suburban metro line fully automated. The first section of the line, the DTL 1, with more than 4 kilometers, was opened in December 2013 and comprises 6 stations between Chinatown and Bugis. DTL 2, the second section, with 12 stations and 16.6 kilometers, connects Bukit

Panjang and Rochor since December 2015. The third section of the line, the DTL3, with 21 kilometers and 16 stations, was commissioned in October 2017 and it is the longest section with 3 interchange stations in MacPherson, Tampines and Expo. With the opening of this new section, a significant improvement in the connectivity between residential and industrial areas is achieved.

The customer Land Transport Authority (LTA) awarded Westinghouse (today Siemens) in 2008 the contract for the supply, installation and commissioning of the signaling system for the DTL, which includes CBTC technology for the 34 stations and 92 trains, and the Automatic Train Supervision (ATS) system, Controlguide Rail 9000.

The core of the fully automated signaling system of the line is Trainguard Sirius CBTC, an automated train protection and operation system from Siemens with many advantages as a reduction of the interval between trains, which increments the line's transport capacity. In case of an eventual incident, the CBTC system is able to continue to be operative thanks to its exclusive backup mode based on a speed codes Automated Train Protection (ATP system), able to maintain safely train operation.

The Downtown Line, which has a total length of 42 kilometers and comprises 34 stations, transports up to 500,000 passengers per day with a fully automated technology and connects East and West of the island with the Central Business District (CBD) and with Marina Bay area.

This press release and further material is available at www.siemens.com/press/PR2018030182MOEN

Contact for journalists

Anne-Muriel Alexici

Phone: +49 89 636 24407; E-mail: anne-muriel.alexici@siemens.com

Follow us on Twitter at: www.twitter.com/SiemensMobility

For further information about the Mobility Division, please see: www.siemens.com/mobility

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 377,000 employees worldwide. Further information is available on the Internet at www.siemens.com.