

## Alstom's signalling system equips Toronto subway extension

**18 December 2017** – Alstom's Urbalis 400 communications-based train control (CBTC) solution is the train control and signalling system behind Toronto York Spadina Subway Extension (TYSSE), an 8.6 km extension of Line 1 Yonge-University, which opened yesterday with six brand new subway stations. The extension's opening was preceded by a ribbon cutting ceremony on Friday with Toronto Transit Commission's (TTC) Chairman Josh Colle and TTC CEO Andy Byford, and in the presence of Canadian Prime Minister Justin Trudeau, Ontario Minister of Transportation, Steven Del Duca, and Toronto Mayor John Tory.

The commissioning of Urbalis 400 on TYSSE is one phase of the Line 1 Yonge-University signalling project that was conferred to Alstom by TTC in 2009 with a scope increase in 2015, and marks the first time that such an innovative radio-based CBTC system enters into commercial service on a metro line in Canada. The complete project scope includes the replacement of the relay-based interlocking on Line 1, and the deployment of CBTC across all of Line 1, including the TYSSE green field extension area, as well as control centre updates. Project activities include replacing the current track circuit system with an axle counter-based detection system, and installing CBTC equipment on-board on more than 80 subway cars.

Alstom's Urbalis solution will help TTC not only reduce headways and provide for 25% additional line capacity, but also increase operational performance and reliability. The entire line, on which some of the original signalling equipment dates back to 1954, is expected to be fitted with CBTC by 2019.

*"Alstom is very pleased to be part of this unique project and to support the TTC in their commitment to passengers with improved service, namely faster and more reliable travel on the busiest line of the system," said Angelo Guercioni, Managing Director of Alstom Canada. "This is just the first step in modernizing the signalling system and bringing state-of-the-art signalling technology to TTC operations. Our team remains at the ready to continue to deliver the performance expected of us and to resignal the entire Line 1."*

Alstom is committed to delivering smart mobility solutions to the Greater Toronto and Hamilton area, and in addition to the project with the TTC, Alstom is currently executing projects to supply Metrolinx with a new Iconis control centre to integrate the GO Transit network into a single, centralized facility, a new signalling system for the Union Station Rail Corridor, and 61 Citadis Spirit light rail vehicles.

Alstom will draw on its expertise in the field of signalling solutions, with more than 50 CBTC systems worldwide in commercial service (Beijing, Milano L1, Sao Paulo L1, Toronto YUS, Mexico, Nanjing, Malaga, Panama, Shanghai...) and 35 others in the implementation phase.

### **About Alstom**

*As a promoter of sustainable mobility, Alstom develops and markets systems, equipment and services for the transport sector. Alstom offers a complete range of solutions (from high-speed trains to metros, tramways and e-buses), passenger solutions, customised services (maintenance, modernisation), infrastructure, signalling and digital mobility solutions. Alstom is a world leader in integrated transport systems. The company recorded sales of €7.3 billion and booked €10.0 billion of orders in the 2016/17 fiscal year. Headquartered in France, Alstom is present in over 60 countries and employs 32,800 people.*

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