

For **over 20 years**, Alstom has been providing sustainable mobility solutions to Singapore, ranging from urban systems to signalling and services solutions. Today, **all MRT lines and the Bukit Panjang LRT system in Singapore carry the Group's solutions**, among which the Circle Line (CCL) MRT system is fully designed and built by Alstom.

Having been involved in greenfield and brownfield projects across Singapore, Alstom is committed to supporting its ongoing development of transport infrastructure, while delivering a seamless, superior passenger experience.



## KEY FIGURES

**>300** employees

**6** sites, including regional HQ

**1** innovation station

**7** MRT/LRT lines with Alstom's mobility solutions

**2022** Top Employer award



### INTEGRATED SYSTEM

- Designed, built, tested and commissioned CCL



### SIGNALLING

- Urbalis 300 for North East Line (NEL), and delivering for the extension, NEL Extension (NELe)
- Urbalis 300 for CCL Stages 1-5, and delivering for CCL Stage 6 (CCL6) and Integrated Train Testing Centre (ITTC)
- Urbalis 400 for Thomson-East Coast Line (TEL) Stages 1-2, and delivering for TEL Stages 3-5
- Cityflo 550 for Bukit Panjang LRT (BPLRT) and upgrading it to Cityflo 650
- Delivering Alstom's first CBTC signalling simulation facilities for CCL, NEL, TEL
- Digital onboard communication systems for Downtown Line (DTL) trains
- System upgrade for BPLRT



### ROLLING STOCK

- Holds the largest fleet in Singapore, comprising 450 Metropolis cars (CCL, NEL), 276 Movia cars (DTL) and 13 Innovia APM cars (BPLRT)
- Delivering 105 Metropolis cars (CCL6, NELe), 636 Movia cars (North-South and East-West Lines or NSEWL) and 19 Innovia APM cars (BPLRT)
- Traction battery for NSEWL trains



## SERVICES

- 16-year Long Term Services Support (LTSS) for CCL signalling system – a first contract of its kind for Singapore’s MRT lines
- 10-year Local Maintenance Presence Framework for NSEWL trains
- 10-year Technical Support and Spare Supply Agreement for BPLRT
- Digital onboard communication systems upgrade for DTL Movia metro trains
- NEL master replacement works for rolling stock and signalling



## INFRASTRUCTURE

- Track work and third rail for DTL Stages 1-2, and Tuas West Extension (inclusive of power supply)
- Track work and catenary for NEL depot extension
- Concrete sleeper c/w fasteners for EWL
- Third rail for NSL

## MAIN REFERENCES

### Pioneering driverless systems in Singapore



- **North East Line:** CBTC signalling solution for the world’s first driverless heavy metro line in operation since 2003. Delivering the extension’s signalling system and rolling stock.
- **Circle Line:** Fully designed and built Singapore’s first and only turnkey metro system. Currently working on the signalling system and rolling stock for Stage 6.
- **Bukit Panjang LRT:** Completed Singapore’s first driverless and LRT line in 1999, and presently modernising the network with Cityflo 650 and Innovia APM.

## PROJECTS ONGOING

### Innovative and passenger-centric mobility solutions



- **North-South and East-West Lines:** Fourth-generation trains for Singapore’s first and longest metro lines spanning 102km over 59 stations. This brings the number of Movia vehicles in Singapore to 912 – one of Alstom’s largest metro fleets globally. The service-proven Movia trains will be equipped with condition-monitoring features, more accessible areas and LCD screens with train travel information.
- **CBTC signalling simulation facilities:** Digital twin of Circle Line, North East Line and Thomson-East Coast Line at the respective MRT depots, which enables more rigorous and sophisticated tests of signalling software enhancements before roll-out to the mainline.

#### FOR MORE INFORMATION:

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