

Over **40** years' presence in the market, Alstom is a major supplier of signalling system, rolling stocks, services and infrastructure to Hong Kong metro lines.

It has built a **trustful relationship with** its customer and partner, **MTR**, both in and outside of Hong Kong.



KEY FIGURES

- Over **1100** metro cars delivered in Hong Kong
- **7** metro lines in operation in Hong Kong are equipped with Alstom's signalling systems
- Delivery of **the first driverless metro line** in Hong Kong (South Island Line - East) equipped with Alstom's signalling system, infrastructures (track work and overhead line) and traction systems.
- Over **210** employees

SIGNALLING SYSTEMS

- Completed: Tsuen Wan Line, Island Line and West Island Line, Kwun Tong Line and its extension, South Island Line (East), Airport Express, Tung Chung Line, East Rail.
- Ongoing: Track circuits replacement on 5 MTR lines and Airport Express.
- Ongoing: Upgrade signalling systems for Tsuen Wan Line, Island Line, Kwun Tong Line, Tseung Kwan O Line, Airport Express, Tung Chung Line and Disneyland Resort Line (along with its consortium partner Thales).

ROLLING STOCK FOR METRO

- Completed: 759 metro cars to MTRC urban railway lines (1976 – 1992)
- Completed: 354 metro cars to KCRC East Rail Project (1979 - 1989)

INFRASTRUCTURE

- Completed: Track work and Overhead line system for South Island Line and Kwun Tong Line Extension
- Ongoing: Track work and Overhead line system for Shatin to Central Link– Phase I

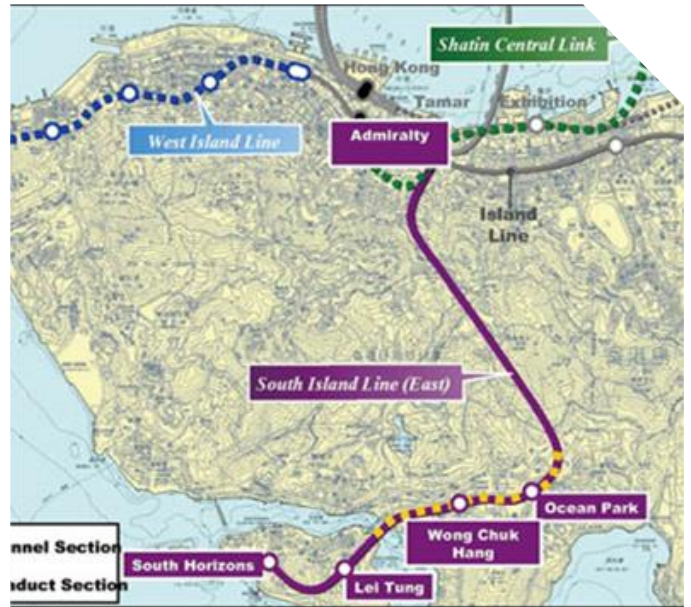
SERVICES

- Completed: renovation of 348 metro cars for KCRC East Rail
- Completed: skirting for 29 trains for MTR
- Completed: M3T3 structural upgrading of car bodies for MTR

MAIN REFERENCES

■ South Island Line (East) , the 1st driverless metro line in operation in Hong Kong

- South Island Line (SIL) is 7km long, medium capacity railway connecting the Southern District with the existing railway network in Hong Kong island.
- Alstom was in charge of three main subsystems : signalling, infrastructure and traction of the rolling stock fleet:
 - ✓ Alstom was awarded by MTR the signalling system contract in 2011, and managed design, supply, installation, testing and commissioning of the CBTC signalling system for the line including an automatic depot.
 - ✓ Alstom was awarded the infrastructure (Track and Overhead line) contract by MTR in 2012. It includes the installation of 15km concrete tracks and the installation & design of 19km of overhead line systems (including 9km of rigid catenary).
 - ✓ Alstom supplied OpTONIX traction systems and train control management systems (TCMS) for the rolling stock fleet (10 3-car trains) supplier, CRRC.



■ Alstom successfully delivered SIL project with customer's satisfaction

- HK SIL started revenue service on 28 December 2016 with sound performance.
- Alstom's participation into the SIL project gained MTR's acknowledgement. MTR openly commented in an industrial event that:

"The SIL project was strategically targeted to achieve the so-called 120% performance on day 1 operation. [...] The openness and dedications of the joint project team has overcome challenges and commissioned the SIL system satisfactorily."

- Urbalis signalling systems is Alstom's service proven Communication Based Train Control (CBTC) solutions. Today, over 100 metro lines in the world are equipped with Urbalis signalling solutions, including driverless metro lines such as Singapore North East Line and Circle Line, Shanghai metro line 10, and Beijing Airport Link.

