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HKIE

IRSC 2025

Advancing Railway Safety through Innovations and Collaborations

Hong Kong, China 25th - 30th November 2025

Long Term Railway Development in Hong Kong

Ir Edmond KH LEUNG

24 mins
to the city centre

Trains
every **10-12** mins

Seamless
baggage transfers

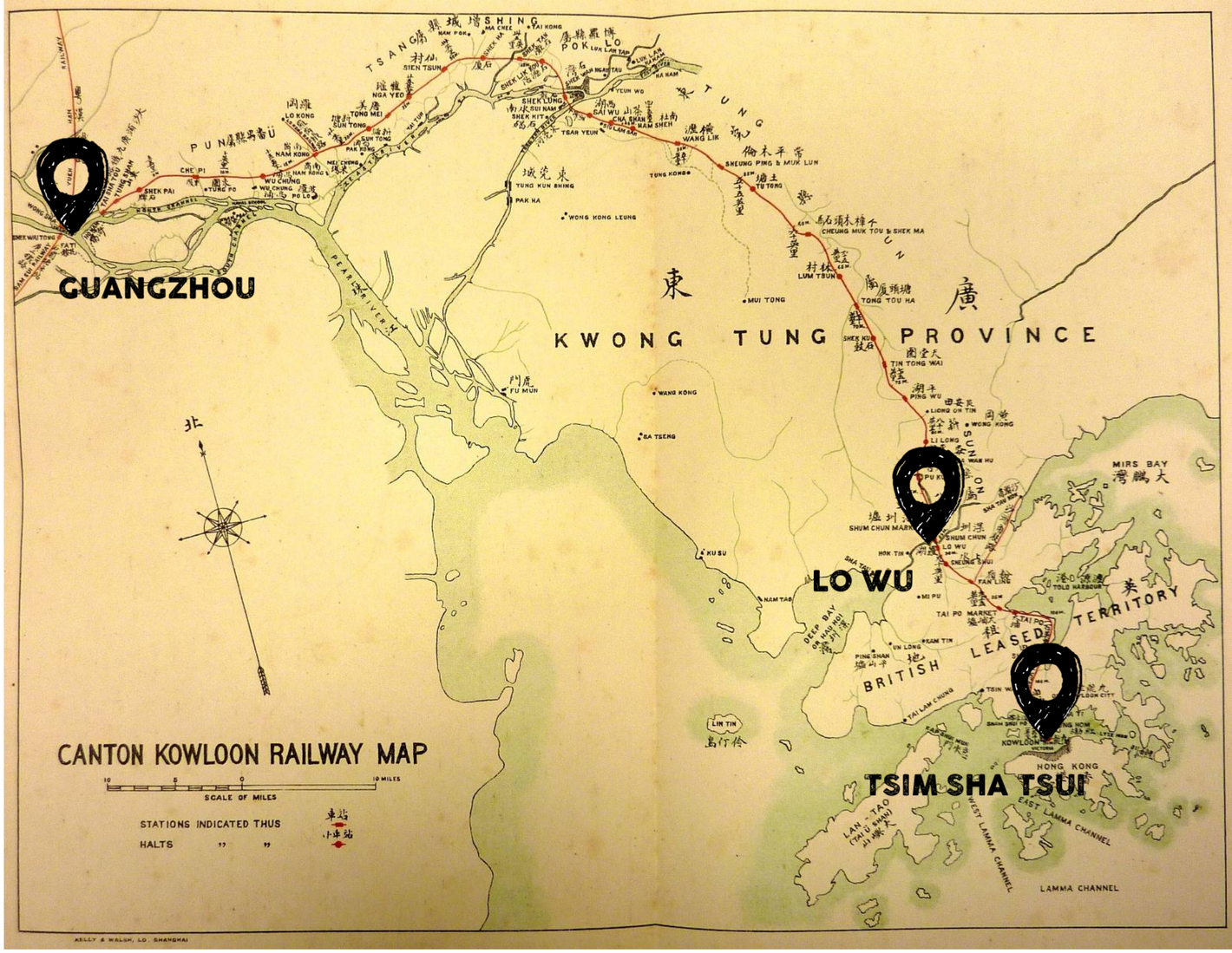
SAFETY IS NOT AN AFTERTHOUGHT; IT IS OUR ENGINEERING ETHOS.

1910 KOWLOON CANTON RAILWAY

1910

Source: KCRC

Source: internet



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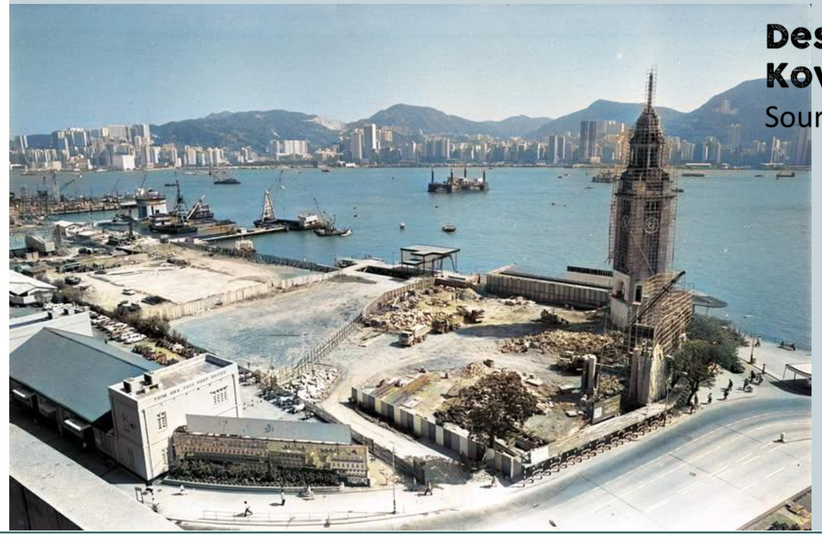
1970S

Kowloon Station at TSIM SHA TSUI
Source: internet

Kowloon Station at HUNG HOM
Source: internet



Destruction of Kowloon Station
Source: internet

Kowloon Station at HUNG HOM
Source: internet

1979 MASS TRANSIT RAILWAY

NETWORK EXPANSION

Source: hk365day.com/mtr/

1979

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NETWORK EXPANSION

1982

Source: hk365day.com/mtr/

NETWORK EXPANSION

1985

Source: hk365day.com/mtr/

MAJOR MODERNISATION

double-tracking

Installing overhead power lines

First generation Electric Multiple Units of electric train

1980-83

NETWORK EXPANSION

2003

Source: internet

LIGHT RAILWAY SYSTEM

23 km → 36km

41 stops → 68 stops

1988

MTR-KCR MERGER

2007

INTERNATIONAL OPERATION

OVERGROUND

MTS | MTR
Metro Trains Sydney

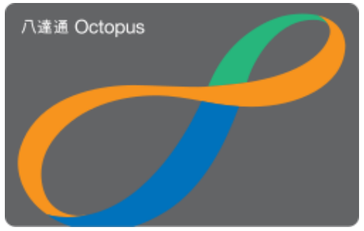
METRO

京港地铁 BJMTR

杭港地铁 HANGZHOU MTR

MTR | Nordic

LOCAL INNOVATION



Contactless Fare System launched in 1997

SAFETY AS THE ENDURING PRIORITY

CBTC testing collision

- 1 injury
- Safety post-fixes confirmed

SAFETY AS THE ENDURING PRIORITY

Escalator Accidents

Jan-Sept 2024

- Over **430** incidents
- **60%** linked to imbalance or not using handrails.

Hold the Handrail, Stand Firm on Either Side

Use a Lift When Travelling with Bulky Items

SAFETY AS THE ENDURING PRIORITY

Service Interruptions

MTR signalling fault fixed after two-hour disruption

SAFETY AS THE ENDURING PRIORITY

Hardware Intrusions

- No injuries
- Services halted three hours

SAFETY AS THE ENDURING PRIORITY

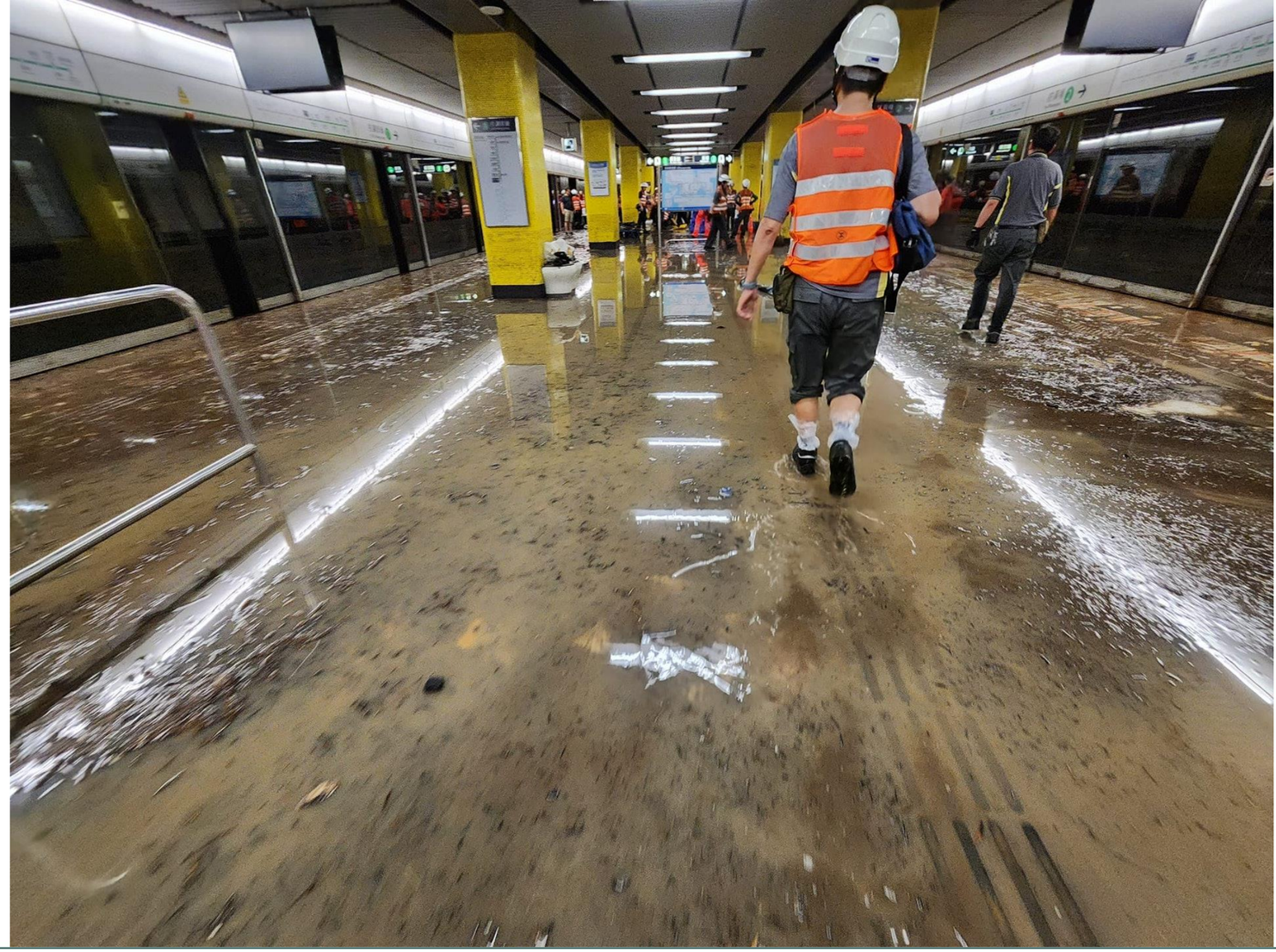
Weather and Flooding

2018
Super Typhoon Mangkhut

SAFETY AS THE ENDURING PRIORITY

Weather and Flooding

September 2023
Black Rainstorm Signal



LOOKING AHEAD

- 390 km network target by 2030
- Northern Link project
- Bay Area connections
- AI guardians spotting storms early
- Predictive maintenance
- Cross-border: Tuen Mun Shenzhen

HONG KONG, CHINA 2025
IRSC
INTERNATIONAL RAILWAY SAFETY COUNCIL

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