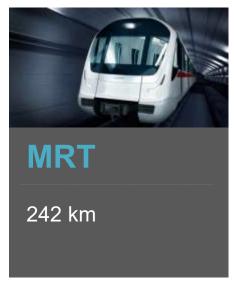
ITS Singapore

Regional Leaders Forum May 2025

Howie Sim President ITS Singapore

Singapore's Transport Network

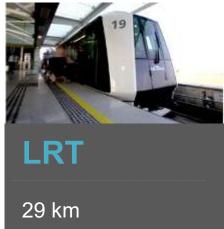


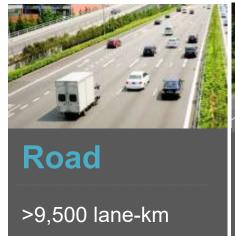


>13,000 Taxis >59,000 PHCs

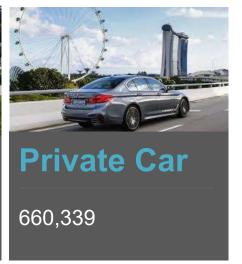


~5800 Buses ~370 Routes











Singapore's Smart Mobility Journey









ERP2.0: Nationwide GNSS-based Congestion Pricing



All You Need to Know about ERP 2.0

What are the changes?

ERP 2.0 replaces the current ERP system that is reaching end of life.

 Tapping on Global Navigation Satellite System (GNSS) technology, ERP 2.0 enables more flexible congestion management without physical gantries

How does this benefit motorists?

- Improves traffic flow
- Enhances the driving experience by providing useful information like real-time traffic incident and road safety alerts
- Improves driver awareness with notifications on bus lanes and speed cameras, to encourage safer driving
- Facilitates seamless payments for roadside parking, usage licenses and checkpoint tolls



AV Buses









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Self-driving public buses to be deployed on service 191 and 400 as part of LTA trial



- Singapore is piloting the deployment of AV solutions for commercial use cases in passenger shuttles, logistics and utilities.
- Singapore is actively testing and deploying autonomous public buses, with a pilot program expected to begin in mid-2026.

Trial of autonomous public buses on Service 400



Map: Clara Ho

Source: Land Transport Authority, Jan 27, 2025



Net-zero Emissions by 2050

Key movers: Vehicle electrification along with promoting Walk-Cycle-Ride

Cleaner Energy Vehicle Vision

By 2040, 100% vehicles on cleaner energy

Singapore Green Plan 2030

60,000 EV charging points
All new car registrations to be cleaner-energy

No new diesel car registrations and every HDB Town an EV Ready Town





Practical Use of Al and Data in Transport







LTA's **Datamall** provides public with land transport-related datasets and APIs.

At least 45 apps have been developed using information released thru Datamall.

Big Data Analytics

Singapore has installed on-board units (OBU) on more than 450,000 vehicles, or close to 50% of our vehicle population, as part of our upgrade of our road pricing system to a new system which is based on Global Navigation Satellite System. These OBUs have given us very rich vehicular movement data and is transforming the way Singapore conducts road planning, traffic operations and enforcement.







Thank You ITS Singapore