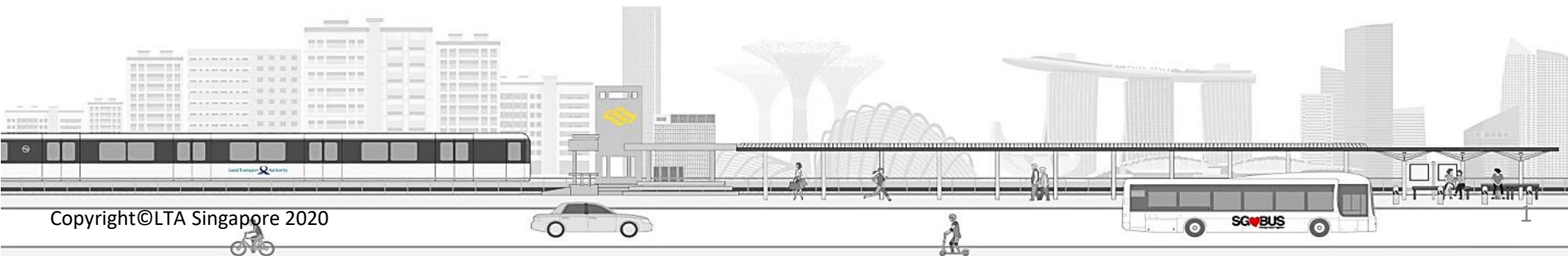


Session: Territorial Development and Regional Mobility
28 Jul 2020, 21h to 23h (Singapore time)

Integrated Land-Use & Transport Planning - Singapore's Experience

Looi Teik Soon
Advisor, LTA Academy
Land Transport Authority
Singapore

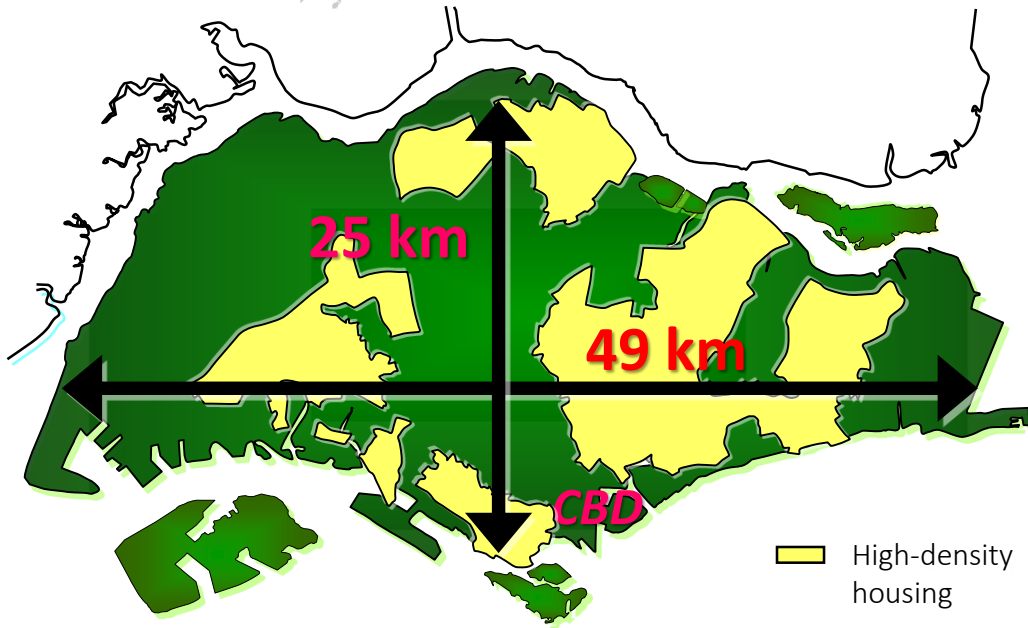


A compact city-state

High public transport mode choice



Population: 5.7 million
Land Area: 725 sq km
Density: 7,900 pp sq km



Roads	3,495 km
- Expressways	164 km
Vehicles	959,000
Cars	624,000

~10 mil pax-trips daily



2.7 mil
MRT/LRT trips



3.4 mil
Bus trips



1.0 mil
Taxi trips

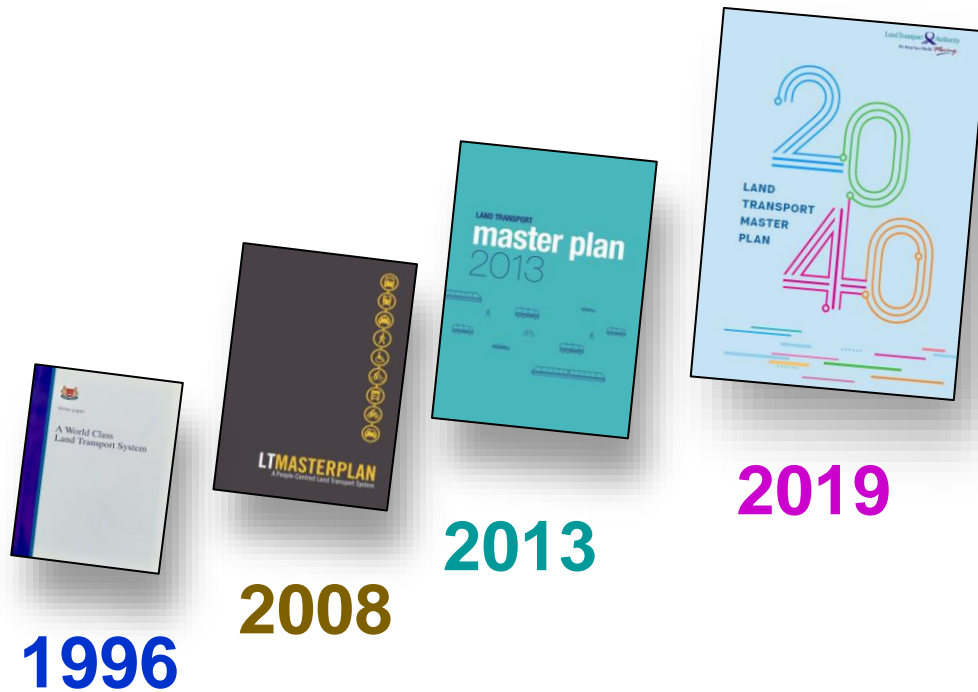


2.6 mil
Active Mobility



Land transport master plan

From supply-driven to aspirational outcomes



20-Min Towns; 45-Min City

- Rail connectivity
- Integrated hubs and regional centres
- Transit priority corridors

Transport for All

- Gracious and caring commuting culture
- Barrier-free journeys

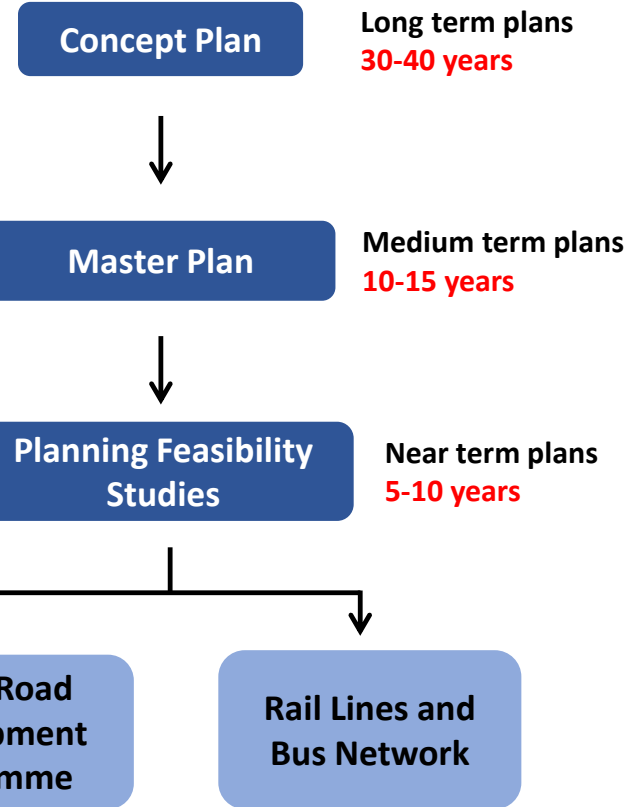
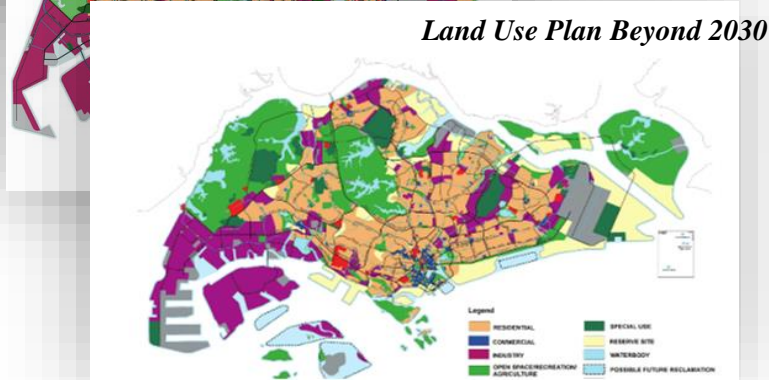
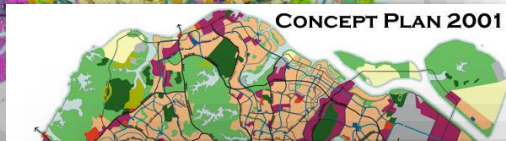
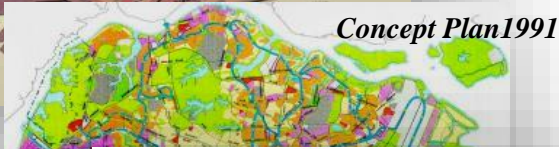
Healthy Lives; Safer Journeys

- More spaces for active mobility
- Cleaner bus and P2P fleets

Integrated land-use & transport planning

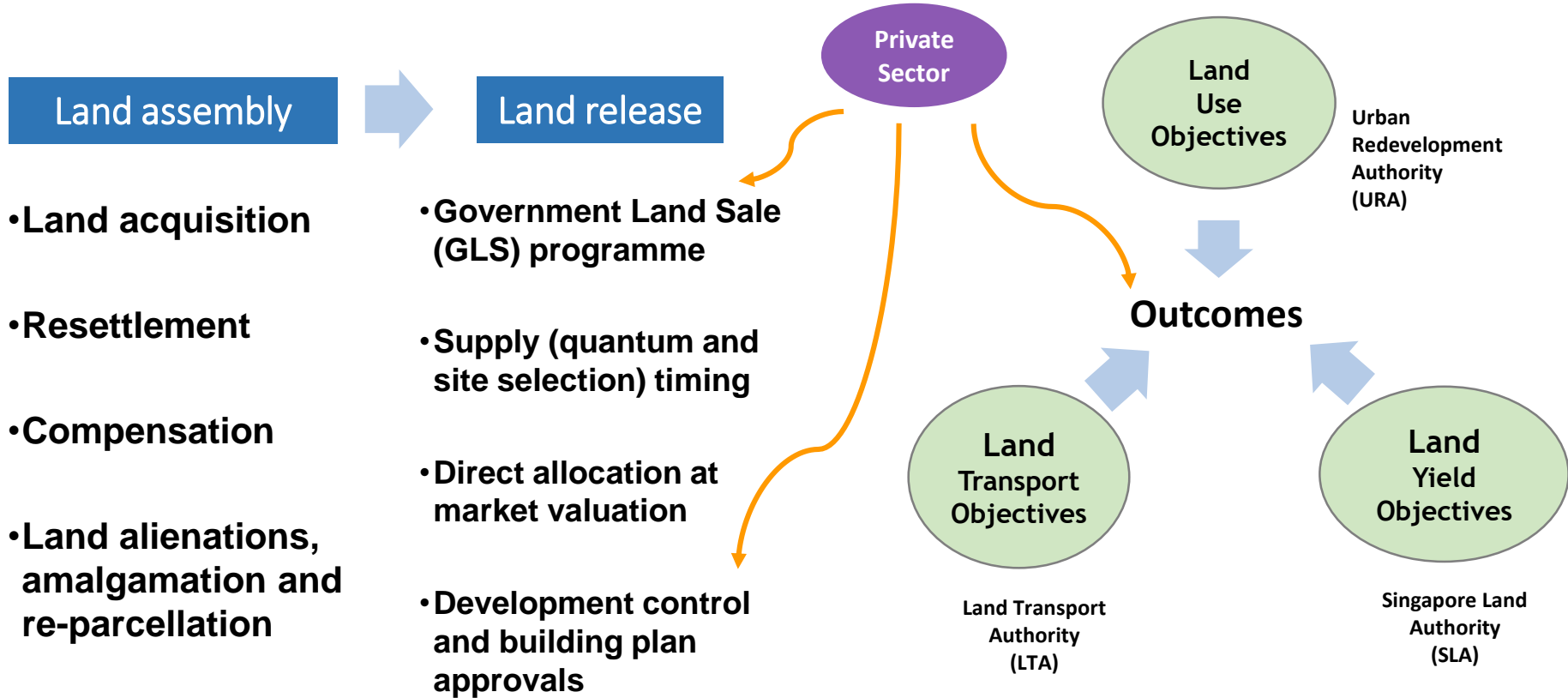
A consistent strategy applied since independence in 1965

- Concept Plan
- Transportation Plan



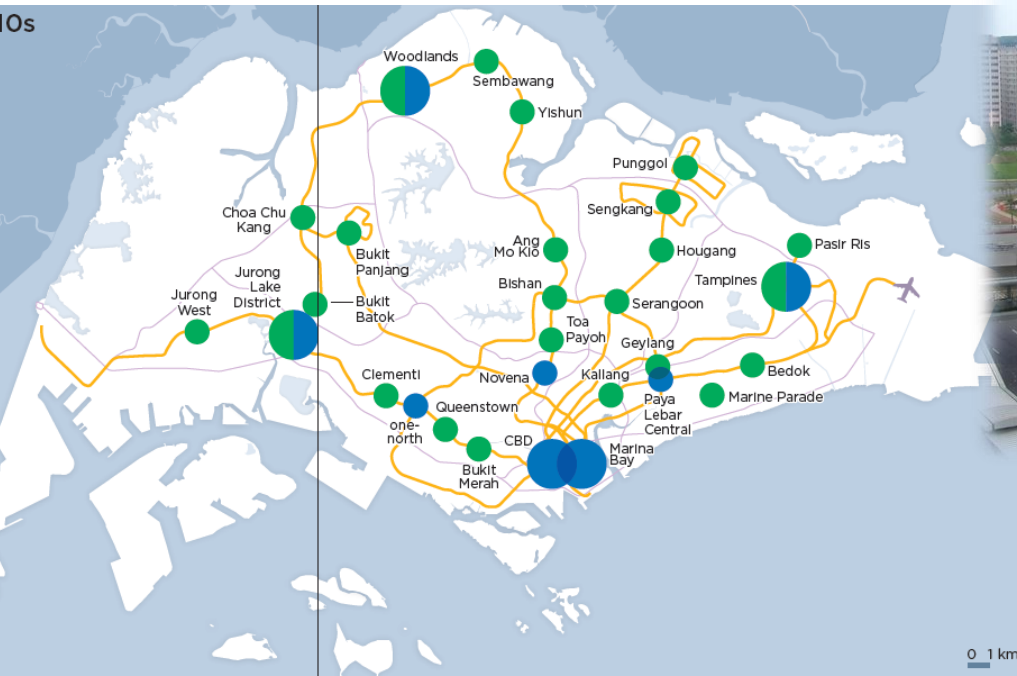
Judicious land developments

Work with markets to deliver outcomes



#1: Integrated lifestyle hubs

Strategically sited and timed according to long range plan



Transport Network

- MRT Lines
- Expressways

Areas of Development

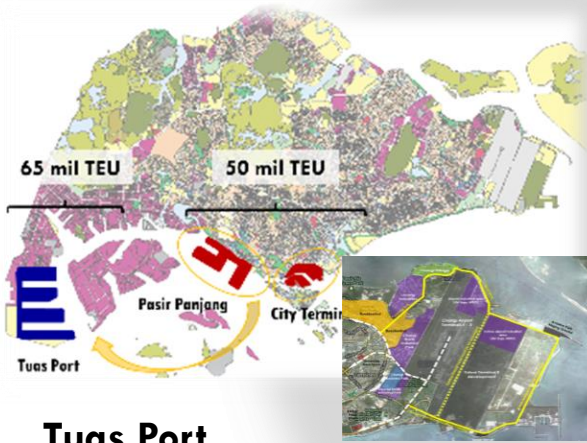
- Housing Towns
- Commercial Centres

Source: USS, Centre for Liveable Cities (CLC), 2018

#2: Urban logistics eco-system

System-wide distributions and solutions needed

Gateways & Industrial Zones



Tuas Port

Changi Region

Sectors



Food



Retail



Construction

Development Areas



Punggol Digital District

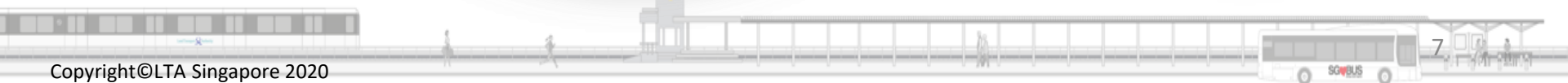


Jurong Lake District

1,000 parcel locker stations to be rolled out nationwide by end-2022

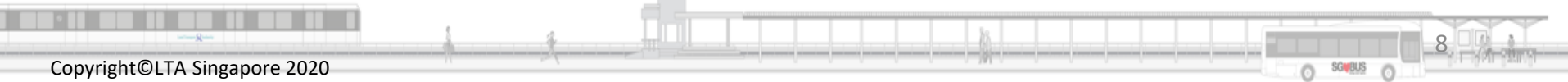
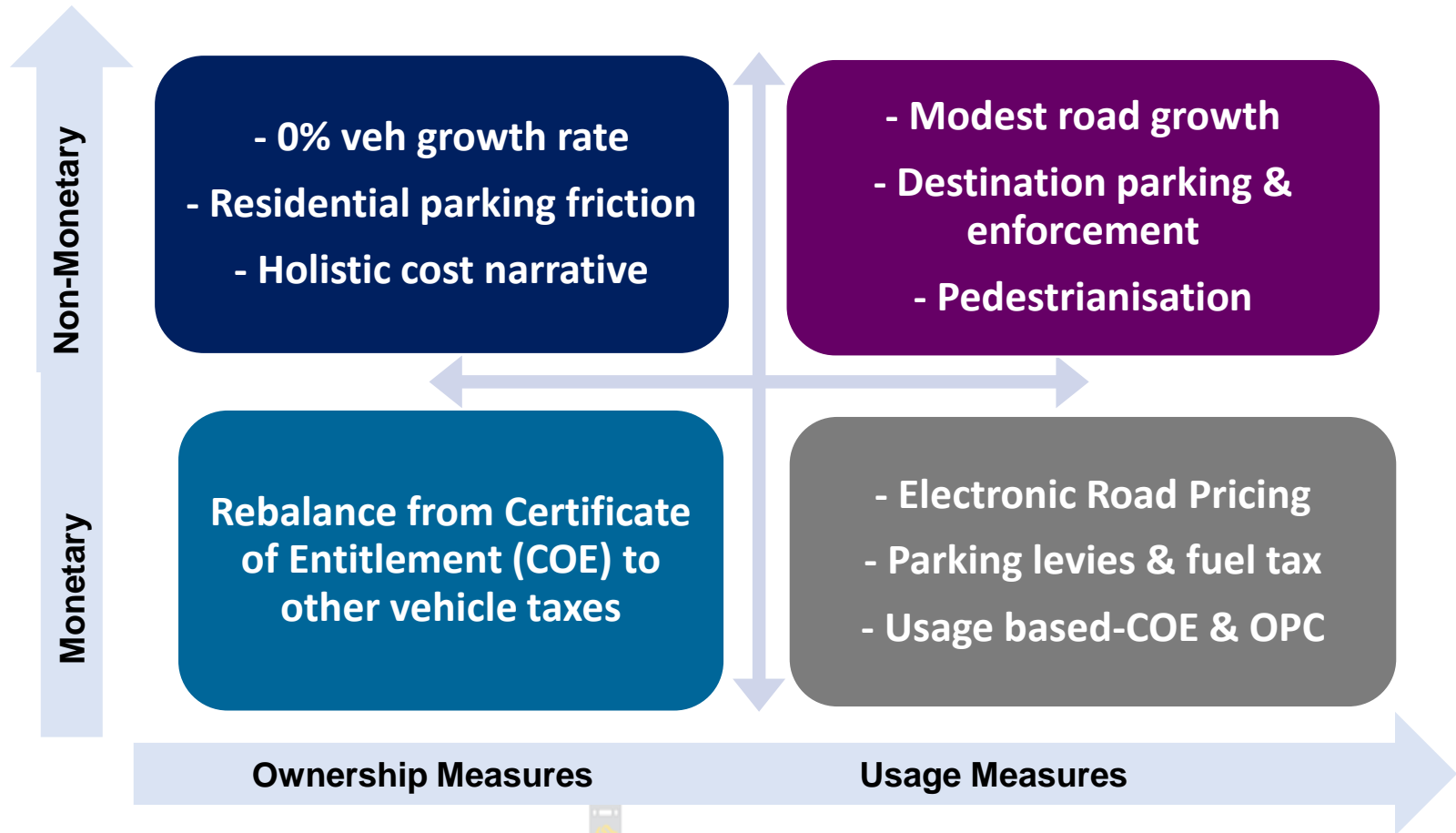
A man in a white shirt is using a blue parcel locker station. The locker has a cartoon character on it.

A resident collecting a parcel from a parcel locker station last week. The nationwide roll-out follows a successful trial in December 2018 by the Infocomm Media Development Authority. For the trial, 62 locker stations were deployed in Pasir Panjang. ST PHOTO: JOEL CHAN



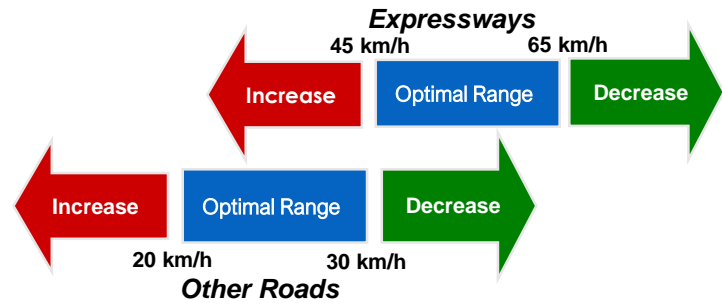
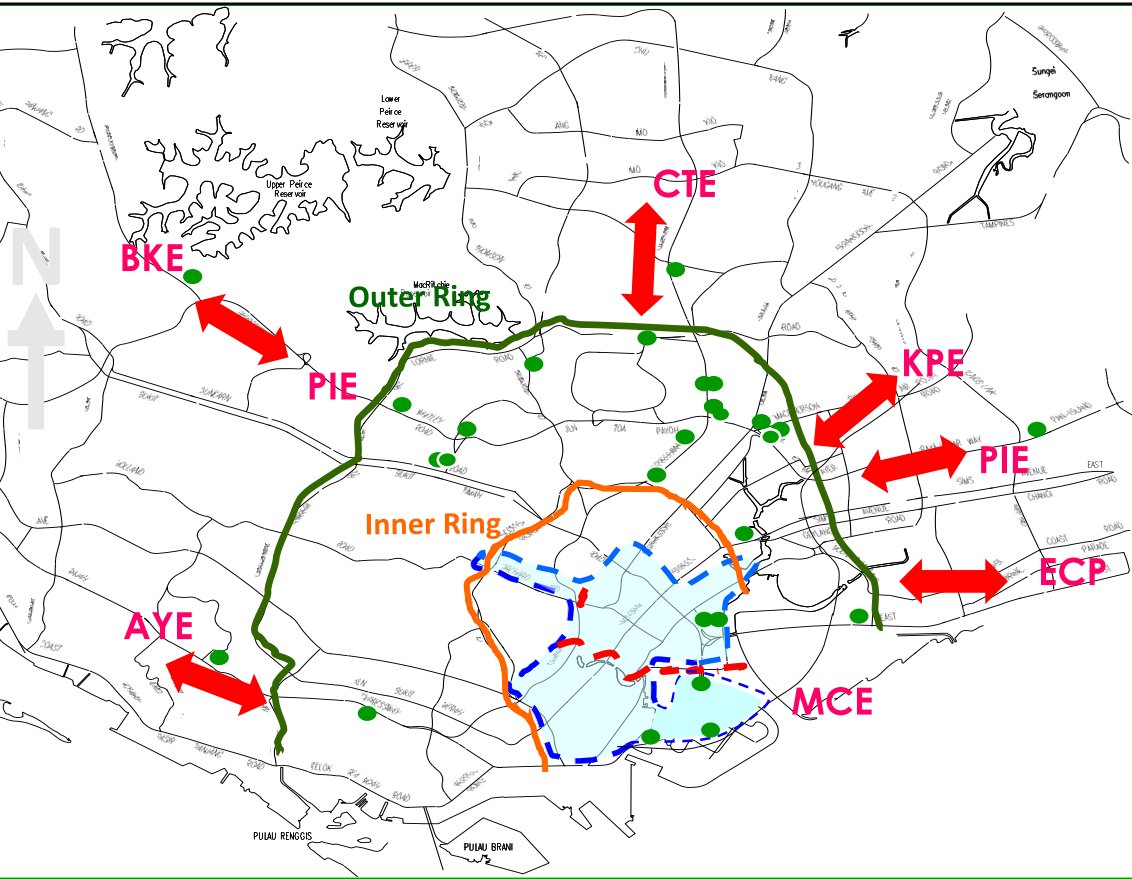
#3: Reduce reliance on private transport

A suite of “push” measures (ownership and usage)



#4: Targetted congestion charging

Harnessing technology and data to shape demands



#5: Recent green movements

Calibrated interventions and “nudges” to go car-lite

Electric car sharing



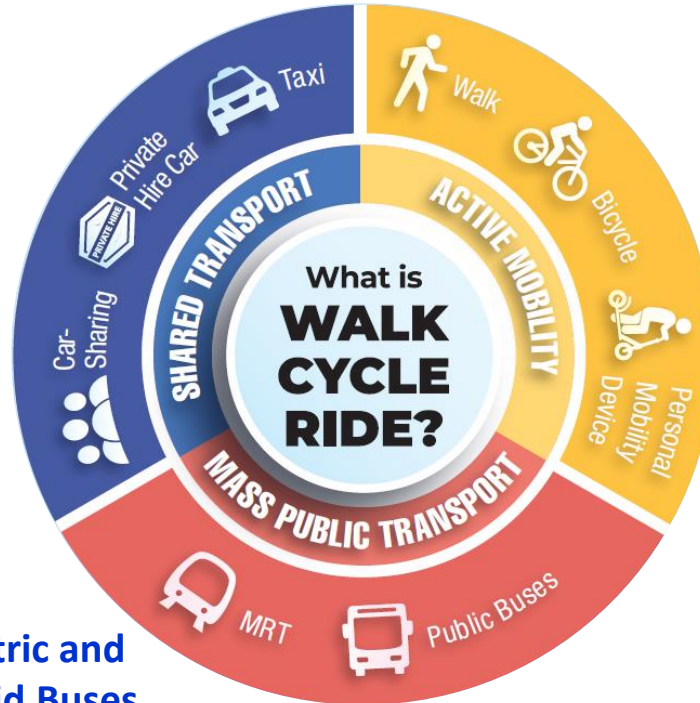
Private hire



Electric Taxi



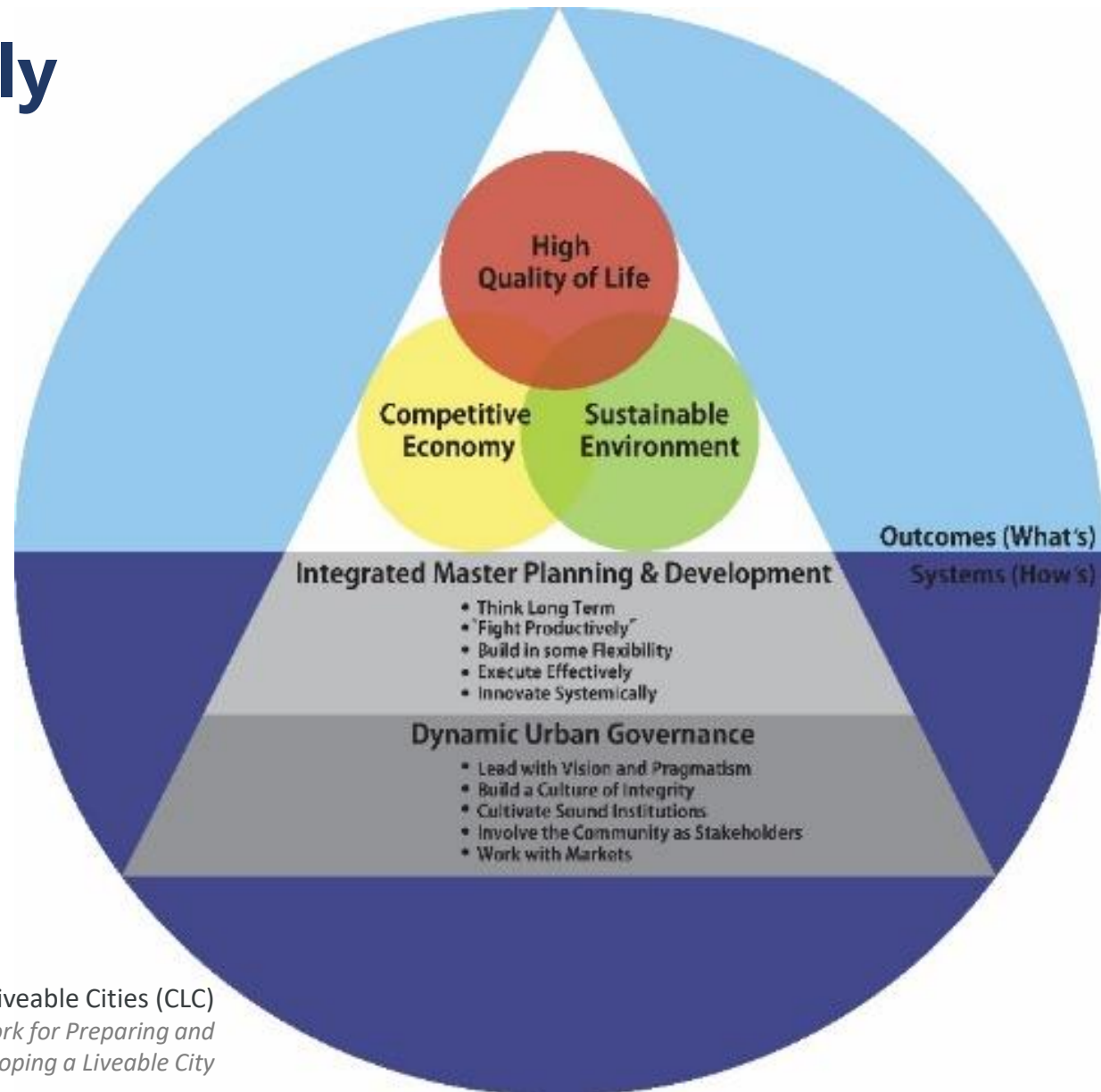
Electric and Hybrid Buses



Once over lightly

- Vision and long term planning
- Interventions to get outcomes
 - Integration
 - System-wide
 - Push-and-pull
 - Technology/data
 - Behavioural nudges

It's about getting the basics right...

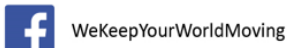


Centre for Liveable Cities (CLC)
*A Framework for Preparing and
Developing a Liveable City*

Supported by:



Thank You



E-mail: looi_teik_soon@lta.gov.sg



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