Towards Car-lite Multi-modal Urban Mobility

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Singapore: A City-State’s Challenge

Total Area = 710 sq km*

5.61m

719 sqkm

7800 pp/sq km
Congestion
Singapore, 1970s
Transit-oriented Singapore today

Image Credit: Alantankenghoe (Flickr, CC)
Develop reliable public transport as the backbone
Focused on providing a high quality living environment

More housing options in the city to inject vibrancy into central area

Set aside land in CBD for development of global financial hub

Ring Plan 1971
High-density housing towns around central water catchment areas connected by rapid transit network
Public Transport as the Choice Mode

Image Credit: Dickson Phua (Flickr, CC)
Reduce reliance on private transport
Car usage discouraged through road pricing

Image Credit: Carlos Fellp Pardo (Flickr, CC)
Car ownership discouraged through vehicle quota system

Image Source: LTA/ST
Minimise travel demand through good planning
Good Planning Matters
High-density, mixed-use, walkable
Integrated development
co-location of compatible uses

Affordable housing
Medical Centre
Elder-care/Child-care
Shops/Hawker Centre
Community Park/Farm
Seamless connection
At grade, underground, elevated
But, more challenges ahead...

- Growing Population & Economy
- Commuter Expectations & Norms
- More Acute Space Constraints
12%

Total percentage of land take by roads in Singapore

Image Credit: LTA
2 in 5 Singapore households own at least 1 car
Car-lite & Multi-modal

Singapore’s urban mobility vision by 2030
75% peak hour travel made on public transport by 2030
Opportunities ahead...

Major public transport improvements
MRT Lines in 2030

Source: Land Transport Authority

Graphic Credit: LTA/ ST
360 km of rail network by 2030

2013
178 km

2030
360 km
8 in 10 homes within 10-min walk of a train station by 2030.
More Buses, Better Rides

- **800 more buses**
- **20% bigger bus fleet by 2016**

**Bus enhancement programme**

**More new buses**

**More services**

**Partnership with private operators to further augment capacity**
TRAVEL EARLY, TRAVEL FREE ON THE MRT

- Start your train ride on a weekday from any MRT or LRT station outside the city area.
- Your train ride is free when you exit any of the city area stations before 7:45 am.
- Enjoy up to 50 cents off when you exit between 7:45 am and 8:00 am.

The city area MRT stations are Bayfront, Bras Basah, Bugis, Chinatown, City Hall, Clarke Quay, Dhoby Ghaut, Esplanade, Lavender, Marina Bay, Orchard, Outram Park, Promenade, Raffles Place, Somerset, Tanjong Pagar.

A one-year trial to benefit YOU, from 24 June 2013

- Free ride for early commuters.
- A more comfortable ride for all!

I get to work early and save money.
I start work earlier and can leave office early to shop more.

For more details, please visit [http://www.lta.gov.sg](http://www.lta.gov.sg)

Travel demand management
Travel smart programme
Work with both individuals and corporates
Incentivise preferred travel behaviours
Improve first-and-last-mile connectivity: inclusive and safe

Walk2Ride

Silver zones
School zones
Opportunities ahead...

- Major public transport improvements
- From asset ownership to shared services
30,000

Estimated number of dockless shared bikes in Singapore

Image Credit: Francis Chu
1 million

Number of active UBER riders in Singapore as of May 2017
On-demand and AV as part of the future mobility ecosystem

But to be centred around public transport, active mobility and shared modes
Opportunities ahead...

- Major public transport improvement
- From asset ownership to shared services
- Promote Active Mobility
213km

700km

700 km of cycling paths by 2030
CLC - Collaborative research on Active Mobility
Jan Gehl in Ang Mo Kio

Image Credit: CLC
Ang Mo Kio: First Model Cycling Town
Phase 1 completed

Image Credit: LTA/ST
Towards a truly car-lite multi-modal urban mobility
Further reduce the appeal of private cars.
Put a stop to underpriced parking and car usage.
Turn Street Design on its Head System-wide

From one street to one block to one city

Image Source: Alhzela (Flickr, CC)
Will it Work? Let’s Find Out!
Pilots, quick-builds, data

Image Credit: NYC DOT (Flickr CC) / Jennifer Morrow (Flickr CC)
District-level travel demand management strategies
Win-win for all

Image Credit: La Citta Vita (Flickr, CC)
Change Mindsets & Make Car-lite Cool

Everyone can be the influencer

Image Credit: ST
Sharing the Ride
Taipei

Image Credit: Alexander Synaptic (Flickr)
Shaping a Car-free Zone
Seaoul

Image Credit: Remy Guo
Every Day Can be a Festival
Suwon
“By closing off the roads to cars for a longer period, people would be encouraged to re-organise their daily life around walking, cycling and public transport during the festival period, and adopt a car-free lifestyle even after the festival…”

Mr Konrad Otto-Zimmerman
Former Secretary General of ICLEI & Creative Director at The Urban Idea
Key thrust towards Car-lite Multi-modal mobility future

1. Get the Fundamentals Right
2. People-private-public: New Forms of Collaboration
3. Multi-pronged Approach to Secure Buy-in & Shape Mindsets
CLC Research – Our Mobility Collection
To distill, create and share

Available at http://www.clc.gov.sg/
Thank You!
See you at World Cities Summit in Singapore on 8-12 July 2018
www.clc.gov.sg