Singapore's Urban Transport: Sustainability by Design or Necessity?





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Outline

- A. Singapore as 'sustainable transport' exemplar?
- B. What priorities actually guided Singapore's approach since early 1970s?
- c. Change in the recent policy review?
- D. Conclusions

(Some) consensus on urban transport and susdev agenda?

Susdev in transport is NOT merely working for less impact per vehicle km in short term

 better served by 'efficient movement of people and goods' or better still, more convenient accessibility or better places (Some) consensus on urban transport and susdev agenda?

Low impact transport

Avoid "locking in" dependence on high energy consumption

Translates to avoiding "automobile dependence"

A. Singapore as 'sustainable transport' exemplar?

► A hard-headed 'bargain'

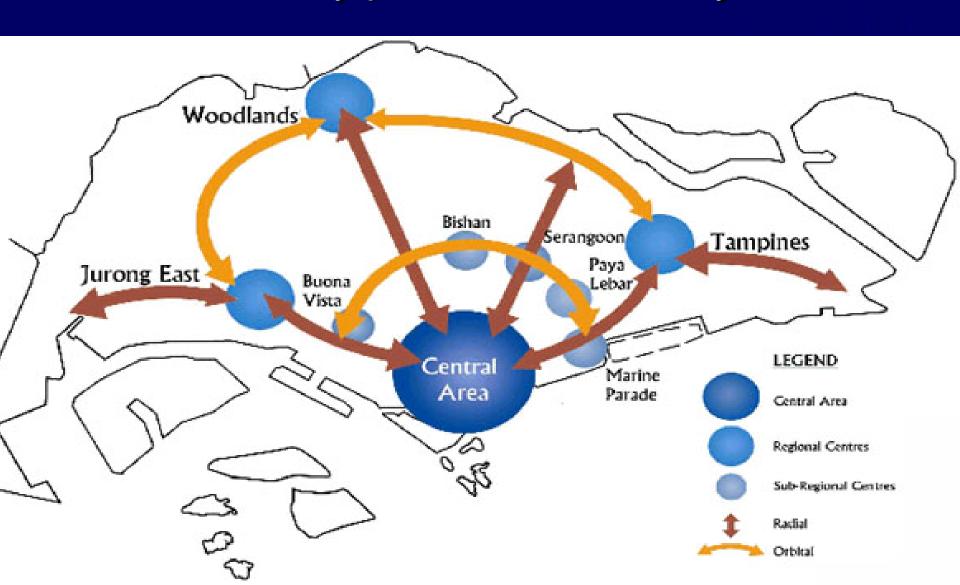
steady improvements in space-efficient public transport

at the price of

making ownership of space-wasting cars unattainable for most

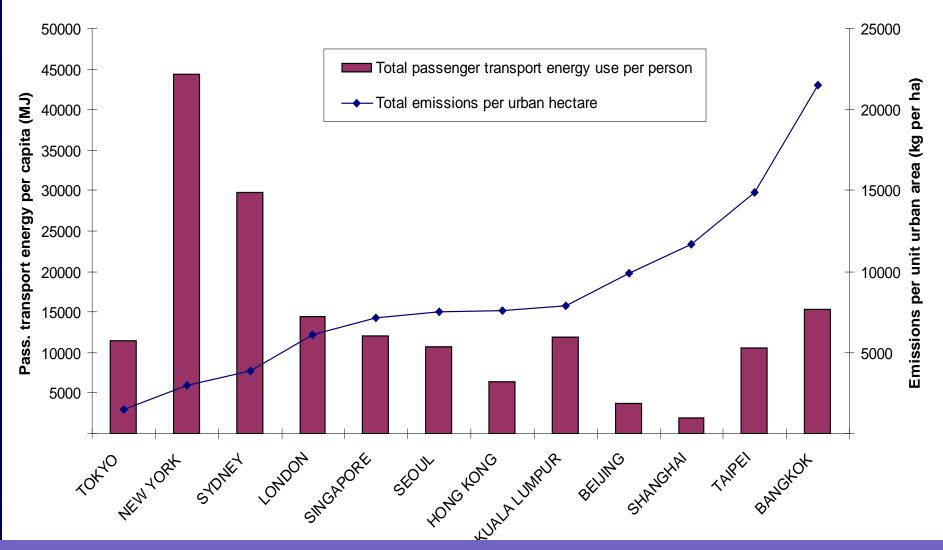
Transit-oriented concept plan

- consistently pursued since early 1970s



Singapore passenger transport energy use in perspective





This is 1995 data from Kenworthy and Laube, 2001

→ High access levels Low access levels +-----

Low mobility/ low traffic movement

Bus/jitney cities

(Seoul, Singapore, HK, Bangkok, KL 1970; **South Asian cities 1990s)**

Rapid motorisation



Invest in public transport (first bus, BRT, later others)

invest in walking and cycling facilities

Transit-oriented

land-use

'Balanced' modern transit cities

(Korean cities Hong Kong, Singapore, Bogotá soon)

Traffic-saturated bus cities

(eg, Jakarta, Manila, Delhi?)

More motorisation

Massive road building

Traffic Disaster? Bangkok?

suburbanisation

High mobility/ high traffic movement

Automobile Dependence? Kuala Lumpur in 20 years?







Differences between 'sustainable transport' and Singapore's priorities

- ► Priority to high-speed traffic flows (at expense of public realm)
- ► Public transport focused on captive users (until recently)
- ► No planning for bicycles as transport

▶ Nevertheless, transit-oriented, modest car use transport system well entrenched

B. What priorities guided Singapore's approach?

- ► Economic efficiency
- ► Modernity (and later, excellence)
- ► Faith in state activism
- ► Awareness of spatial limitations

Coincidence that these prompted strategies that resemble 'sustainable transport'?

C. Update: looking ahead from 2008

► Review of land transport policy 2008

- ► Accelerated MRT investment
- Bus failings addressed
- Reasserts ownership control
- ► ERP politics addressed
- Rise of liveability as priority?
- ▶ Bicycles mentioned but ...

D. Conclusion

- Relatively 'sustainable' transport but for other reasons
- ► Local imperatives often dovetailed with 'sustainable development' agenda in transport
- ► Liveability emphasis growing perhaps but dominant theme remains economic efficiency
- Several dilemmas remain to be resolved

