

Balancing Cities' Economic Growth with Social & Environmental Needs: Singapore's Experience

Innovative Infrastructure for Better Urban Functions
Sustainable, Environmental, Energy and Social
Measures

30 June 2012

An Endearing Home,

A Distinctive Global City

Singapore – The Challenges of a City-State

714 km² land area

5.2 mil population

Limited natural resources

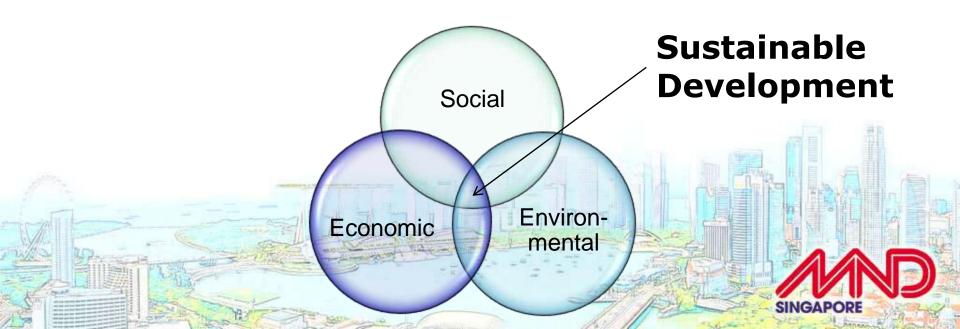
A small and open economy

Multi-racial, multi-cultural population



Singapore's Approach towards Growth

- Growth is not an end in itself the aim is for sustained improvements in the individual's and also society's well-being
- ☐ For growth to be sustainable, it must also meet social and environmental needs.





Singapore aims for **efficient**, **clean**, and **green** development that **meets social needs**.



Aim: Development that is **efficient** – Measures for a Compact, Liveable City



Integrated and Long Term Planning

"Singapore is notable for the rationality and long-term vision that has guided its policy-making since its independence, enabling it to make remarkable gains in terms of prosperity, health, safety, livability and sustainability."

Alan Altshuler,

Professor of Urban Policy and Planning, Harvard
University



Integrated Long Term Planning

Concept Plan - strategic land use plan to guide development for 40 to 50 years.

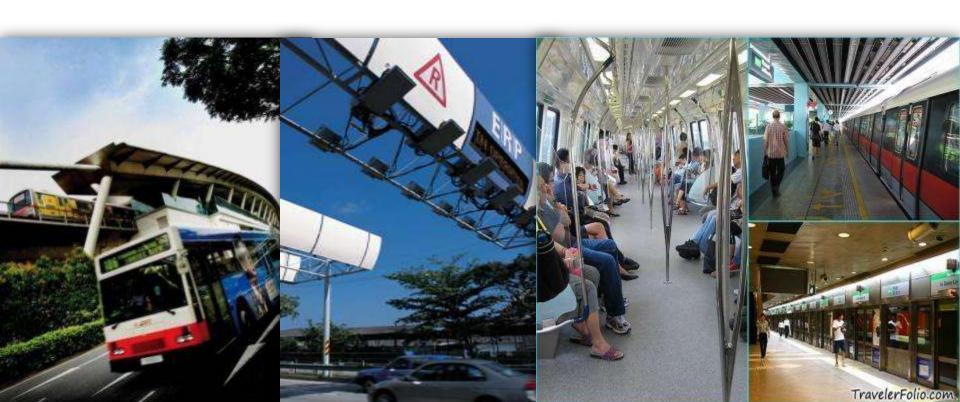
 Master Plan – detailed development plans over the next 10 to 15
 years.



An efficient transit-oriented city

Transport Measures

- Infrastructure for island-wide public transport
- Policy for private car ownership
- Hub-and-Spoke Model Seamless interchange between different modes of transport



An Efficient City – Growth of Regional Centres



Aim: Development that is **clean** – Measures for resource efficiency and a clean environment



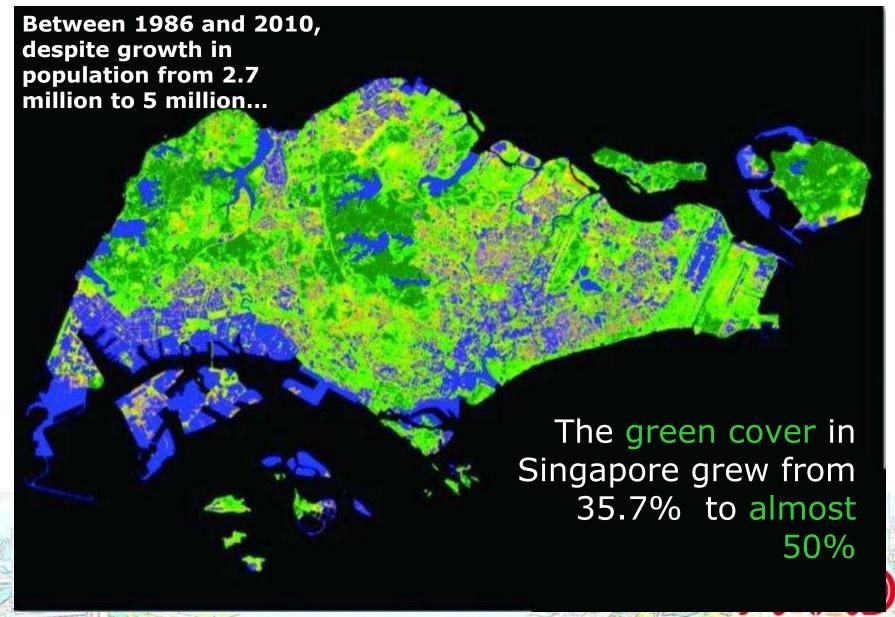
Every Drop Counts - NEWater



Aim: Development that is **green** – Measures for a greener city



City in a Garden



City in a Garden

- Innovative expansion of green areas with minimal landtake (e.g vertical greenery)
- Preservation of urban biodiversity





City of Gardens & Waters

ABC Waters Programme

- Launched in 2006 to transform functional waterways and bring people closer to water.
- New community spaces created, offering host of recreational options
- Master Plan drawn up with 100 locations to implement project till 2030







Aim: Development that meets social needsBuilding an Endearing Home



Public Housing Towns -

A Live-Work-Play Environment



Public Housing Programme – Building Communities

- Started high-density & high rise HDB flats in 1960s, today> 85% ownership
- Self-contained satellite towns with schools, supermarkets, clinics, hawker centres and recreational facilities.
- Financially-aided by the Central Provident Fund to help citizens be self-reliant.
- Social integration through mixture of flat types, racial quota.
- Upgrading Programmes to preserve asset value



City for All Ages

- □ As our population ages, we must ensure our city remains liveable and affordable for our seniors
- City for All Ages aims to:
 - Create a liveable built environment for seniors
 - Helping seniors age actively, and in place
 - Integrating the hardware and software for comprehensive eldercare services







City of Memories

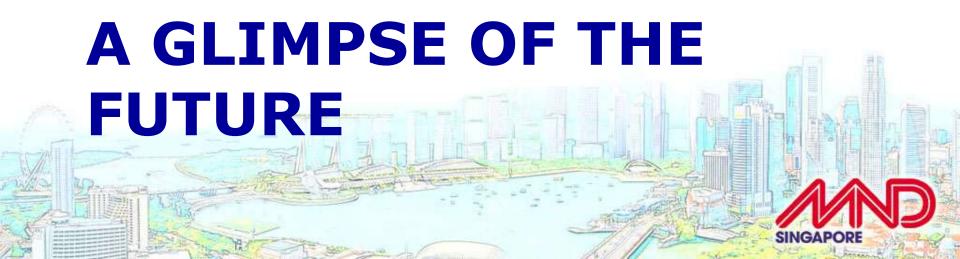
- The conservation of our built heritage helps to build a sense of rootedness and identity.
- We have conserved more than 7000 buildings and structures
- The purpose is to preserve physical representations of our past, a sense of history & memory, and the unique character and identity of our city
- We have a legal framework to protect conservation buildings, and conservation guidelines guide owners in restoration works





Key Thrusts of the Sustainable Singapore Blueprint (SSB)

Improve Resource Efficiency in the areas of energy, water, and waste management/ recycling Create a Liveable Environment by ensuring cleaner air, water, and public cleanliness; more greenery, biodiversity and waterways. **Build capability in Sustainable** Development through supporting clean technologies Work together to create a Sustainable Community, involving businesses, NGOs, grassroots and individuals



Marina Bay



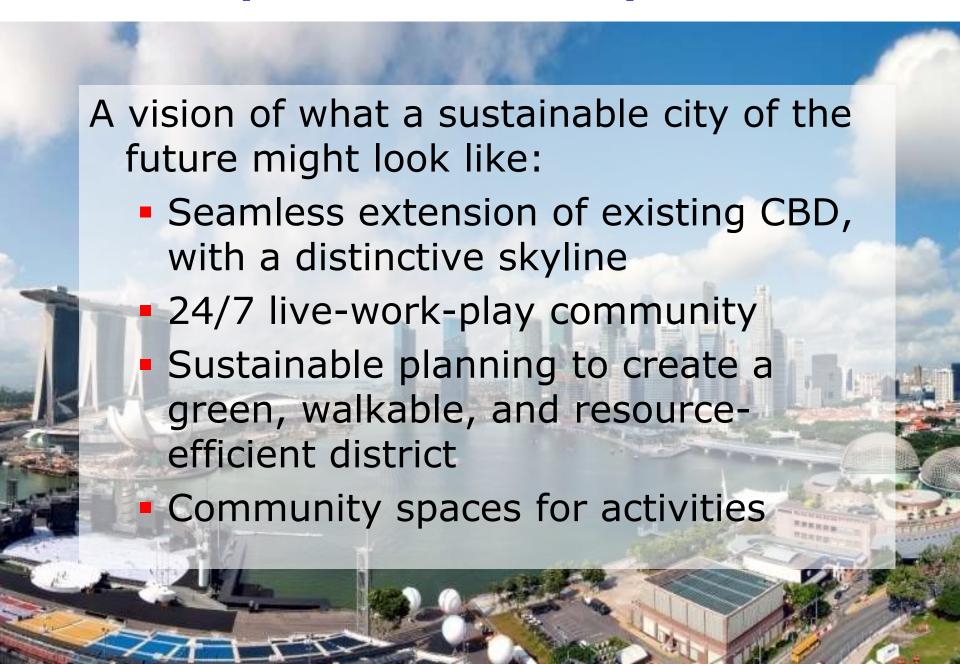








Marina Bay - Sustainable City of the Future



Marina Barrage



Marina Bay: Gardens by the Bay



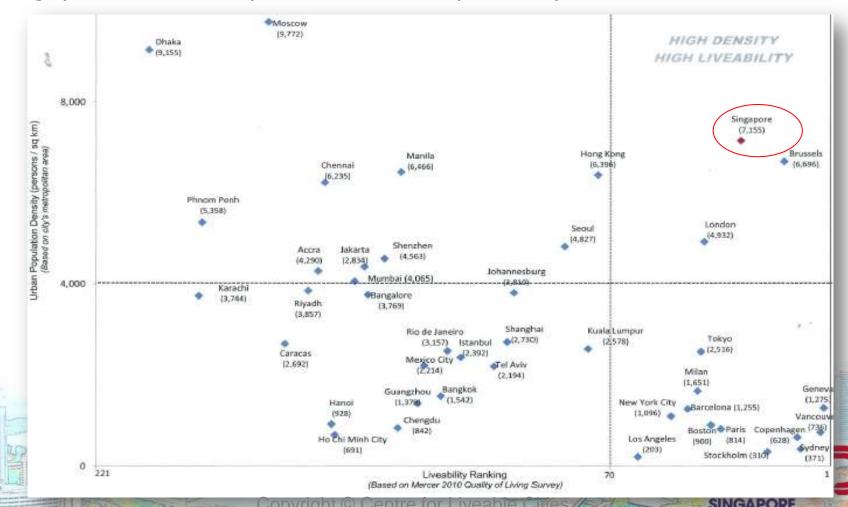
Marina Bay: The People's Bay





Singapore's Unique Proposition: High Density, High Livability

- 21st century is the century of cities
- Singapore's urban experience is a unique and positive one





THE END

