

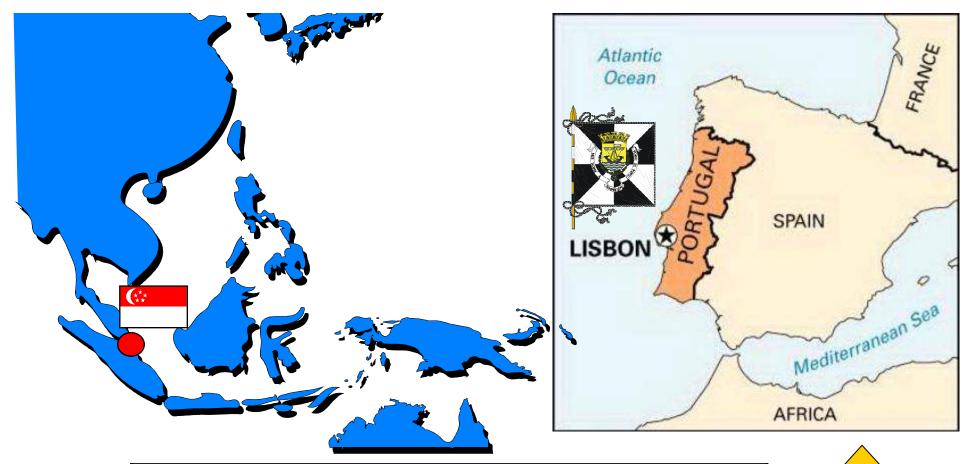
## **Building Sustainable Cities: The Singapore Experience**

Speaker Mah Bow Tan Minister for National Development, Singapore

> ISOCARP Congress Portugal, 20 October 2009

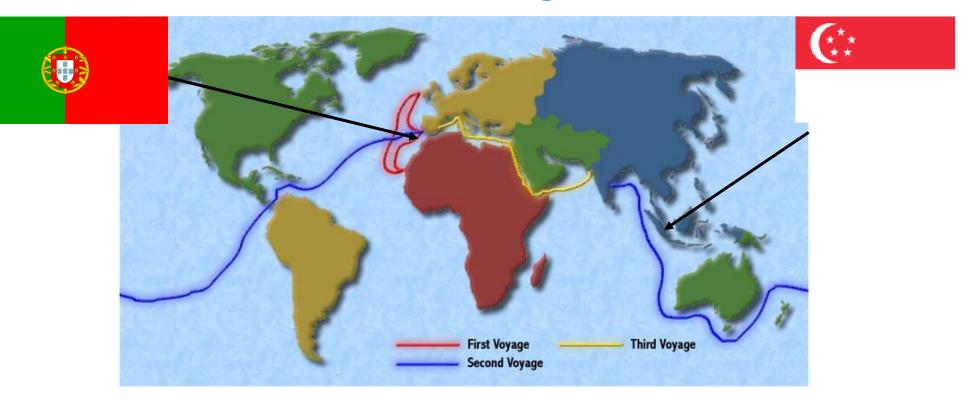


#### **Singapore: Our Unique Circumstances**



	Singapore	Lisbon Metropolitan Area	SG is 4x
Land Area	707 sq km	2,957 sq km	smaller but 8x more
Population	4.99 mil	2.6 mil	dense
Population density	7,058 pax/ sq km	895 pax/ sq km	

#### **Our historical links with Portugal**





#### **Cities and Sustainable Development**



#### **Urban population grows exponentially**

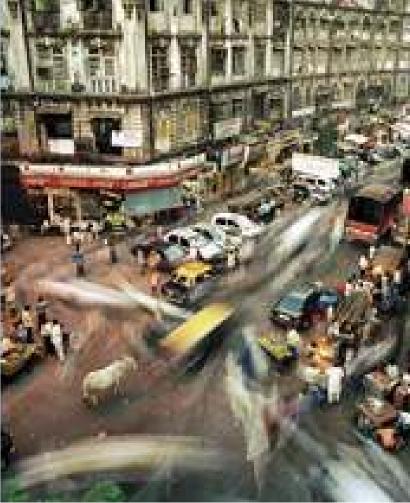


#### **Tackling the urban challenges in Cities**

- Half of the world's population
  - Consume about 75% of the world's energy
  - Emit about 80% of the world's green house gases

- "Cities and Climate Change Initiative: Conference Report, Oslo, 17 March 2009", Opening Statement by Dr Anna Tibaijuka (Executive Director, UN Habitat)





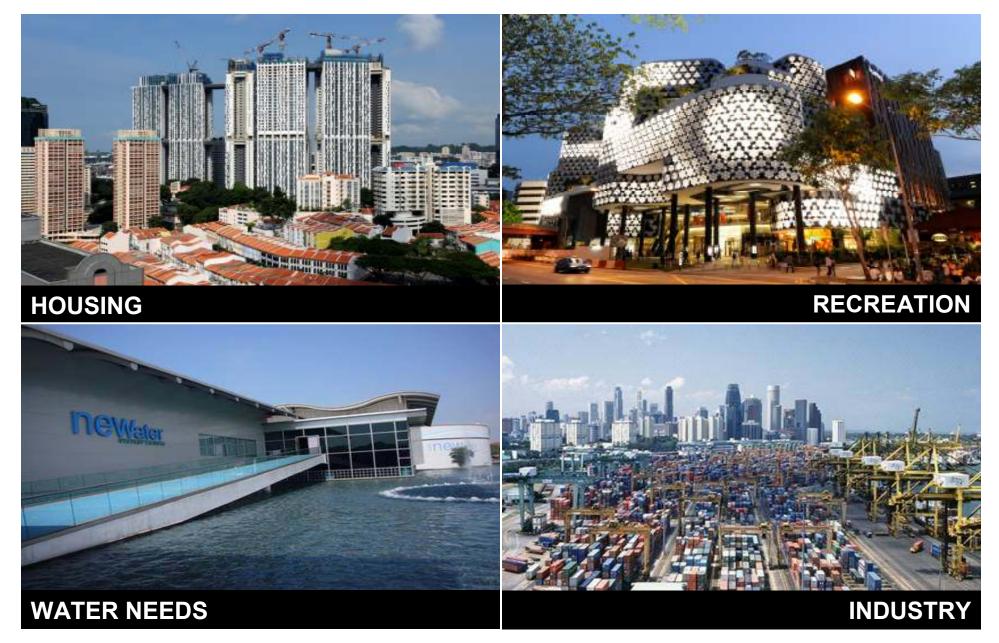
# Cities bring new solutions through innovation for a Sustainable Future



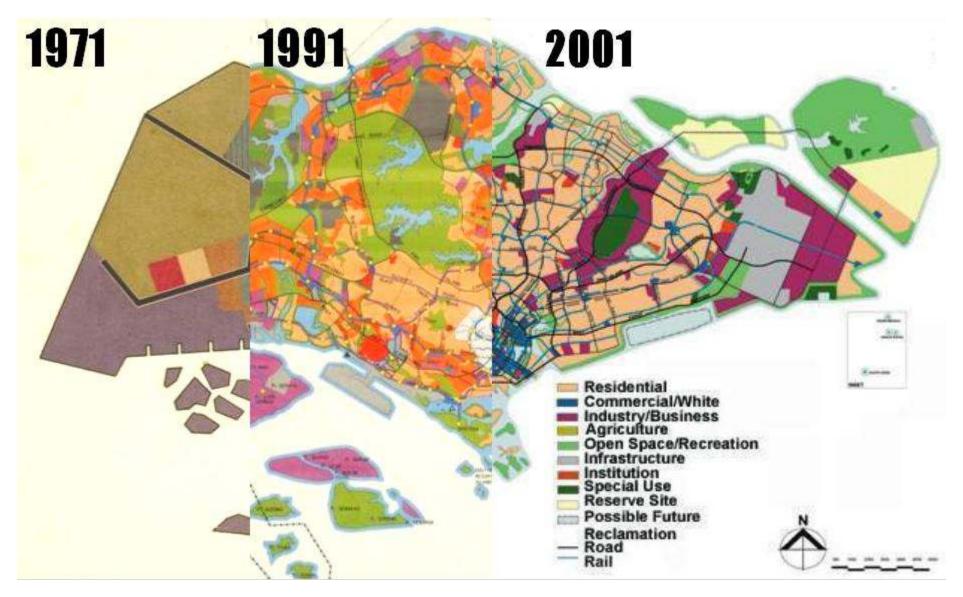
## Sustainable Singapore



#### **Needs of our city**



#### Long Term, Integrated Planning through Concept Plan



## Industrialize in a sustainable way



#### **Diversified water sources**



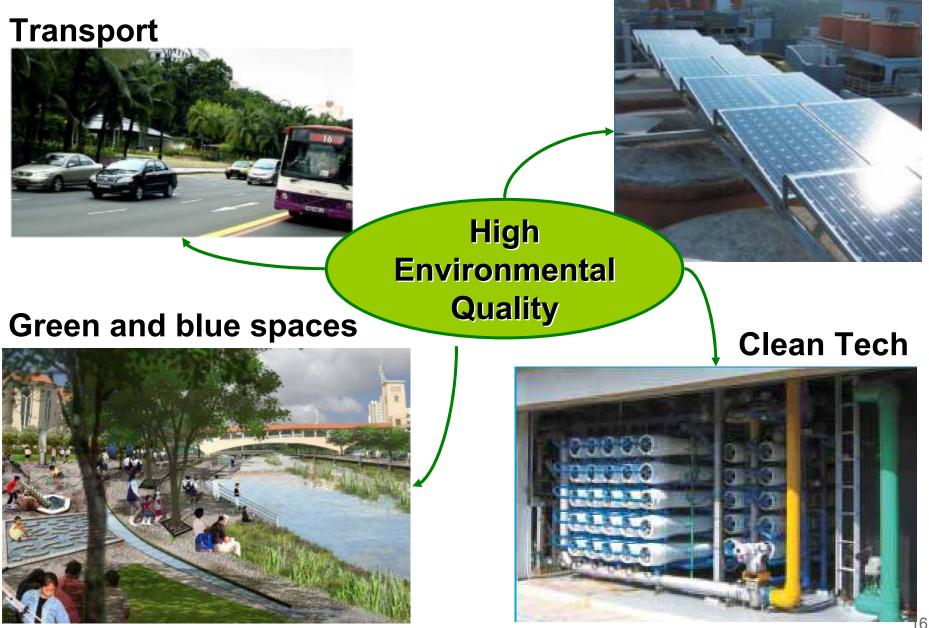


#### **Strict Pollution Controls on Industries**



## Invest to maintain high environmental quality

Solar



#### A Lively and Liveable Singapore



#### **Reducing Carbon Footprint of our City**

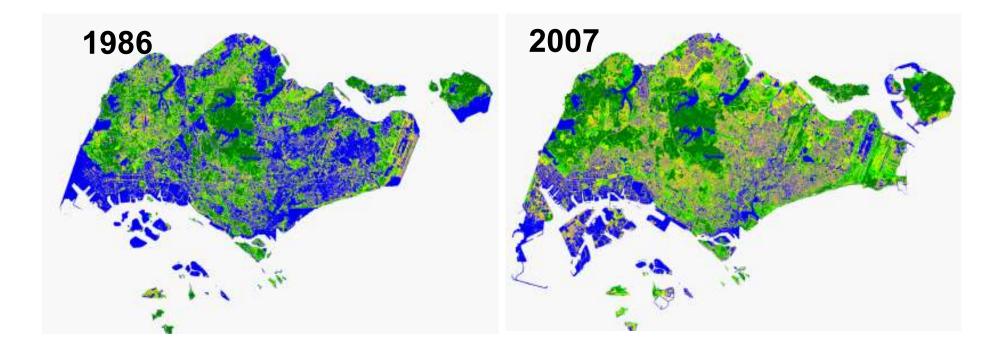


### Preserve and intensify greenery in our city



#### **Growing our Green Cover**

Between 1986 and 2007, despite a **68%** population growth from 2.7 mil to 4.6 mil...Our **green** cover grew from **35.7% to 46.6%**.



#### **Transport Connectivity**



#### **Encourage Public Transport, Cycling and Walking**



### A Living Lab: Sustainable Districts & Urban Planning



#### **Eco-Precinct: Designing for Green**



### **Next generation Eco-Living**



## •Environmentally friendly design features



• Cycling network to encourage healthy lifestyle





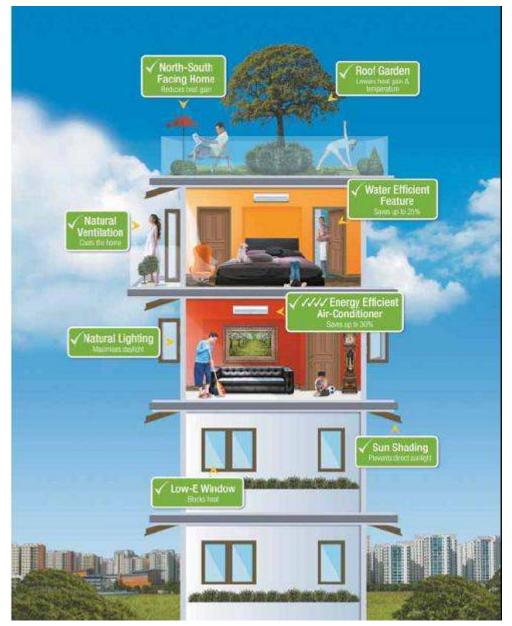
•Harness solar energy

•Extensive greenery to reduce heat gain

#### Improve Energy Efficiency by 35% by 2030



#### **Green Mark Buildings**



#### Features of a Green Mark Building

# Adopt energy efficient designs, processes and technologies



## **Empower Consumers**



#### **\$30mil solar test-bedding project**

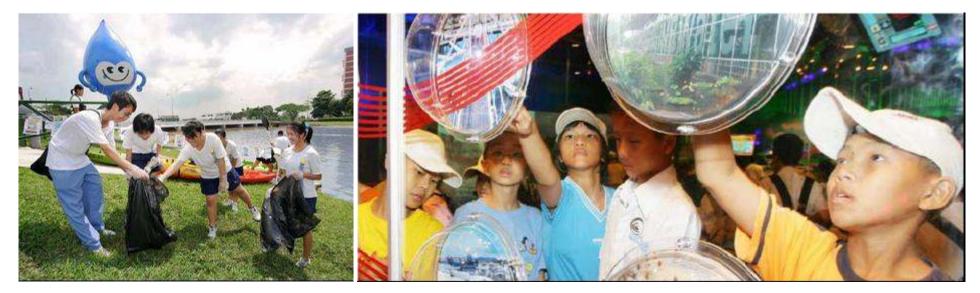


#### **Engaging the Community to adopt Low Carbon Lifestyle**



#### **Educate and Engage the Youth**





#### **Partnership across Borders**





#### CENTRE for LiveableCities SINGAPORE







#### Lee Kuan Yew World City Prize







## **THANK YOU**

