



AIPH MEETING

20-23 March 2018

The Hotel Windsor,
Melbourne, Australia



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**Hort
Innovation**

SINGAPORE'S GARDEN CITY & GARDENS BY THE BAY

AIPH MEETING



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Gardens
by the Bay

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The Hotel Windsor,
Melbourne, Australia

“If a garden is well maintained and neatly landscaped, there must be a dedicated and efficient gardener.”

– Mr Lee Kuan Yew (1923-2015)



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Gardens
by the Bay

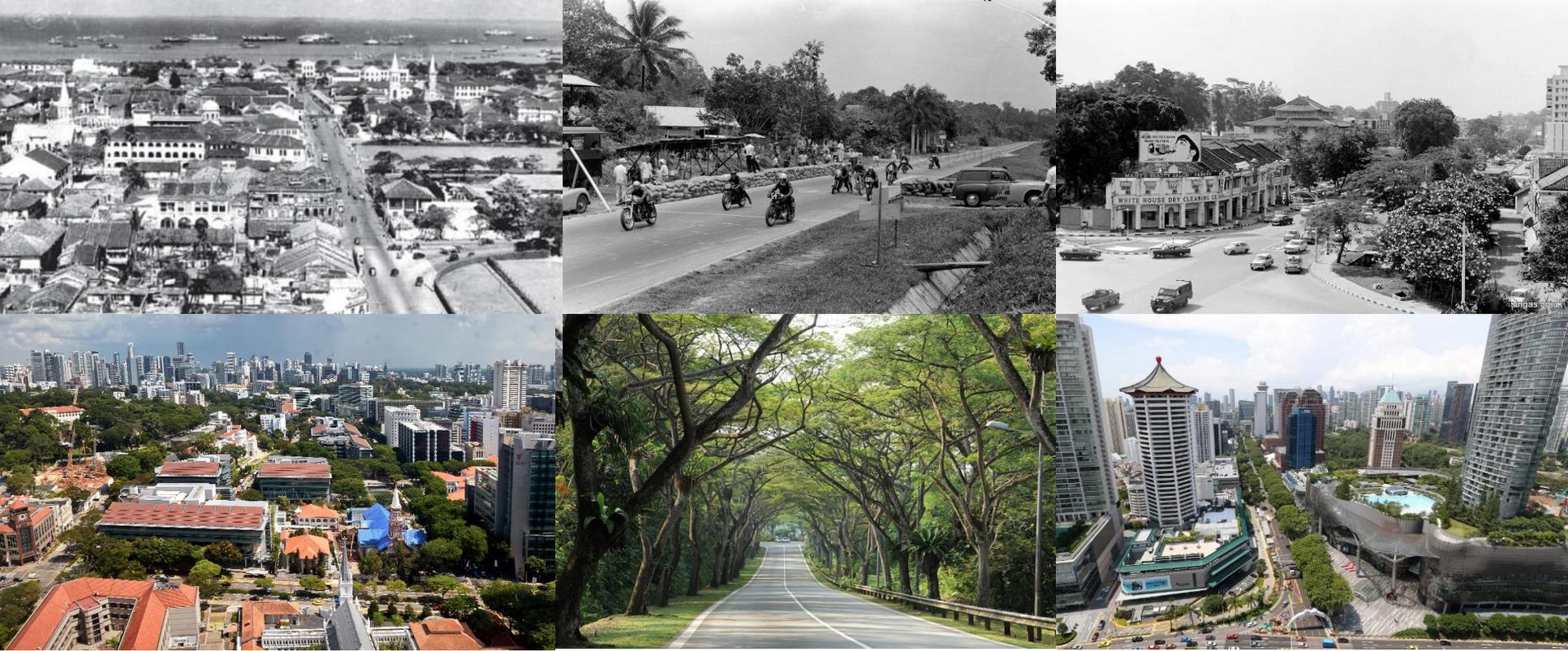


**1963
Launch of Tree
Planting Day**

- 1970 – 55,000 trees
- 1974 – 158,000 trees
- 2014 – 1.4 million trees



The Start of a Garden City



**1967
Garden City
vision introduced**

- abundant lush greenery, clean environment - make life more pleasant for the people.
- signify a well-organised city - a good destination for tourists and foreign investments



**1973
Garden City
Action Committee**

- Garden City Action Committee - oversee policies for greening and coordinate activities of the various government agencies in this respect.
- Minutes of meeting read by Cabinet



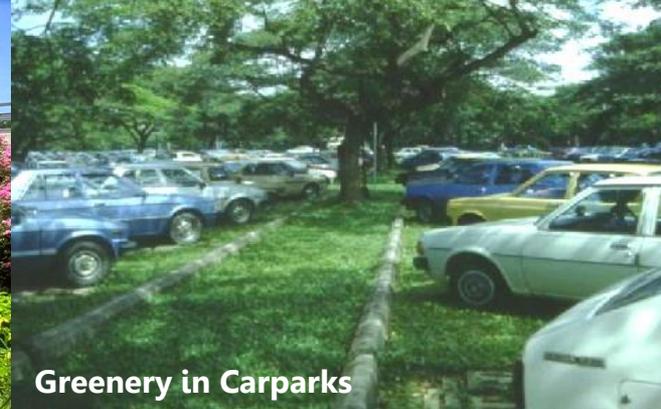
The Start of a Garden City



Colourful Plants



Bridges & Flyovers



Greenery in Carparks



Retaining Walls



Soften the Look



Strategy in the 70's



Cannon Ball Tree
(*Couroupita guianensis*)



Mango tree (*Mangifera indica*)



Jambu bol
Syzygium malaccense



Tembusu (*Fagraea fragrans*)



Grass Cutting

- Introduction of colourful & fragrant plant species
- Fruit tree planting
- Mechanisation



Regional Park



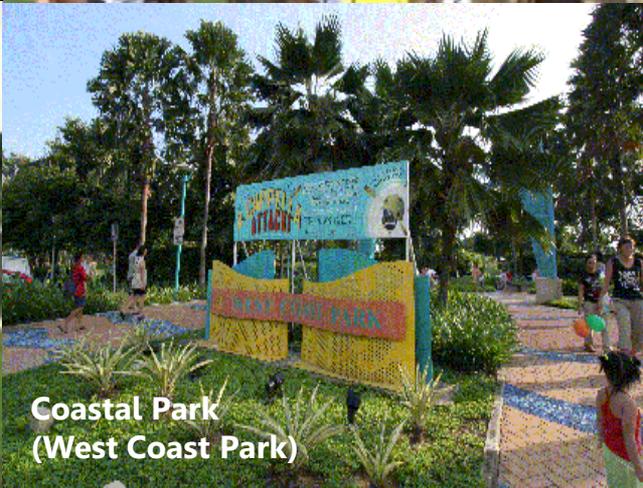
Town Park



Neighbourhood Park (Bishan Park)



**City Park
(Marina City Park)**



**Coastal Park
(West Coast Park)**

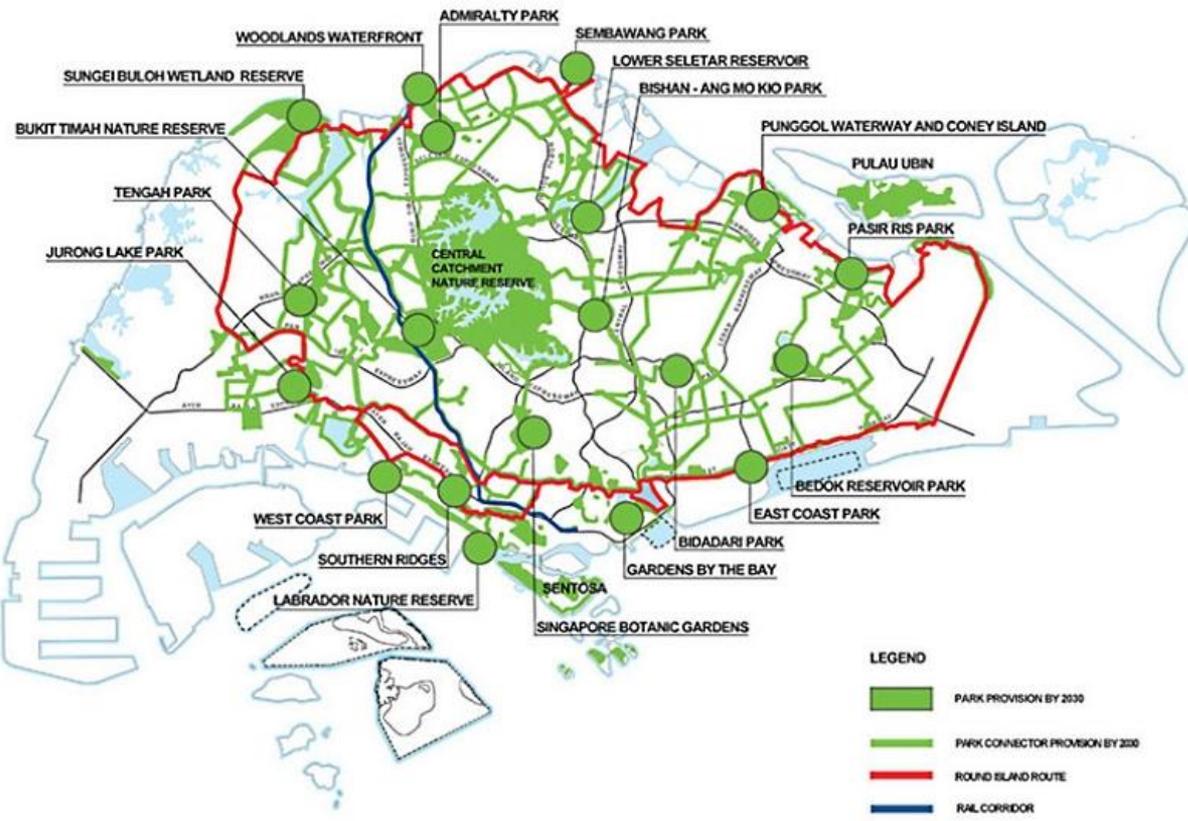


Nature Park

**Providing parks
for the people**



Strategy in the 90's



Park Connectors

- 200km (current)
- 360km (2020)
- Streetscape Greenery Masterplan



Strengthening Our Green Infrastructure



Skyrise Greenery



Strengthening Our Green Infrastructure



Biodiversity Conservation



Strengthening Our Green Infrastructure



Gardens by the Bay



Land area: 716 km²
Population: 5.4 million

Perpetual summer and high rainfall...
High flora and fauna biodiversity



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**Gardens
by the Bay**

Gardens by the Bay



- Bay South – 54 hectares (133 acres)
- Bay East – 32 hectares (79 acres)
- Bay Central – 15 hectares (37 acres)



Gardens by the Bay



A Distinctive Global City
A Source of National Pride for Singaporeans
A Premier Leisure Destination



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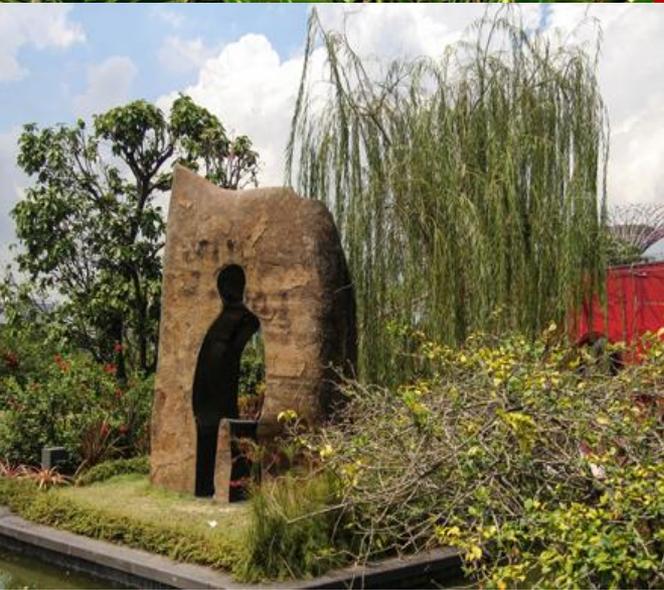


Gardens
by the Bay

Gardens by the Bay



Gardens by the Bay – Bay South



Outdoor Gardens: The Heritage Gardens



Outdoor Gardens: World of Plants



Cooled Conservatories: Gardens under Glass



- Display plants from Mediterranean-type and semi-arid climatic regions of the world
- 1.2 hectares of column-free space, with a height of 45 metres
- Temperature: 18°C - 23°C, humidity: 60% - 80%



Cooled Conservatories: Flower Dome



Cooled Conservatories: Flower Dome



Cooled Conservatories: Flower Dome



- Display plants from Tropical Montane regions between 1,000 – 3,500m above sea level
- 0.8 hectare of space, with a height of 65 metres
- 35-metre tall mountain with waterfall
- Temperature: 23°C - 25°C, humidity: 80% - 90%



Cooled Conservatories: Cloud Forest



Cooled Conservatories: Cloud Forest



- 18 Supertrees ranging from 25 – 50 metres in height
- Provide scale and dimension to the Gardens, while marrying form and function of mature trees
- 128-metre long aerial walkway
- Bistro-bar on 50-metre tall Supertree



Supertrees: Vertical Gardens



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Gardens
by the Bay

Supertrees

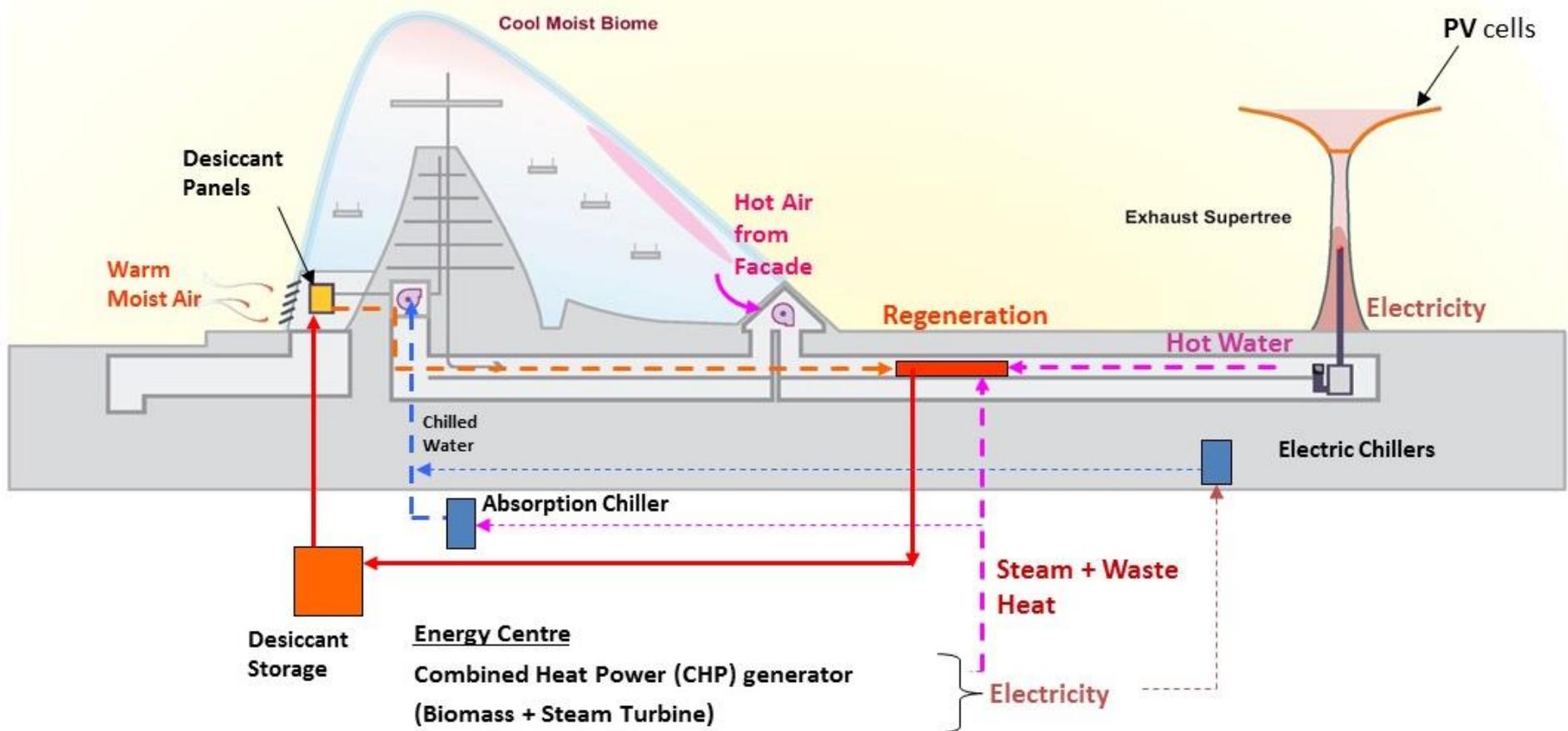


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Gardens
by the Bay

Powered by Biomass

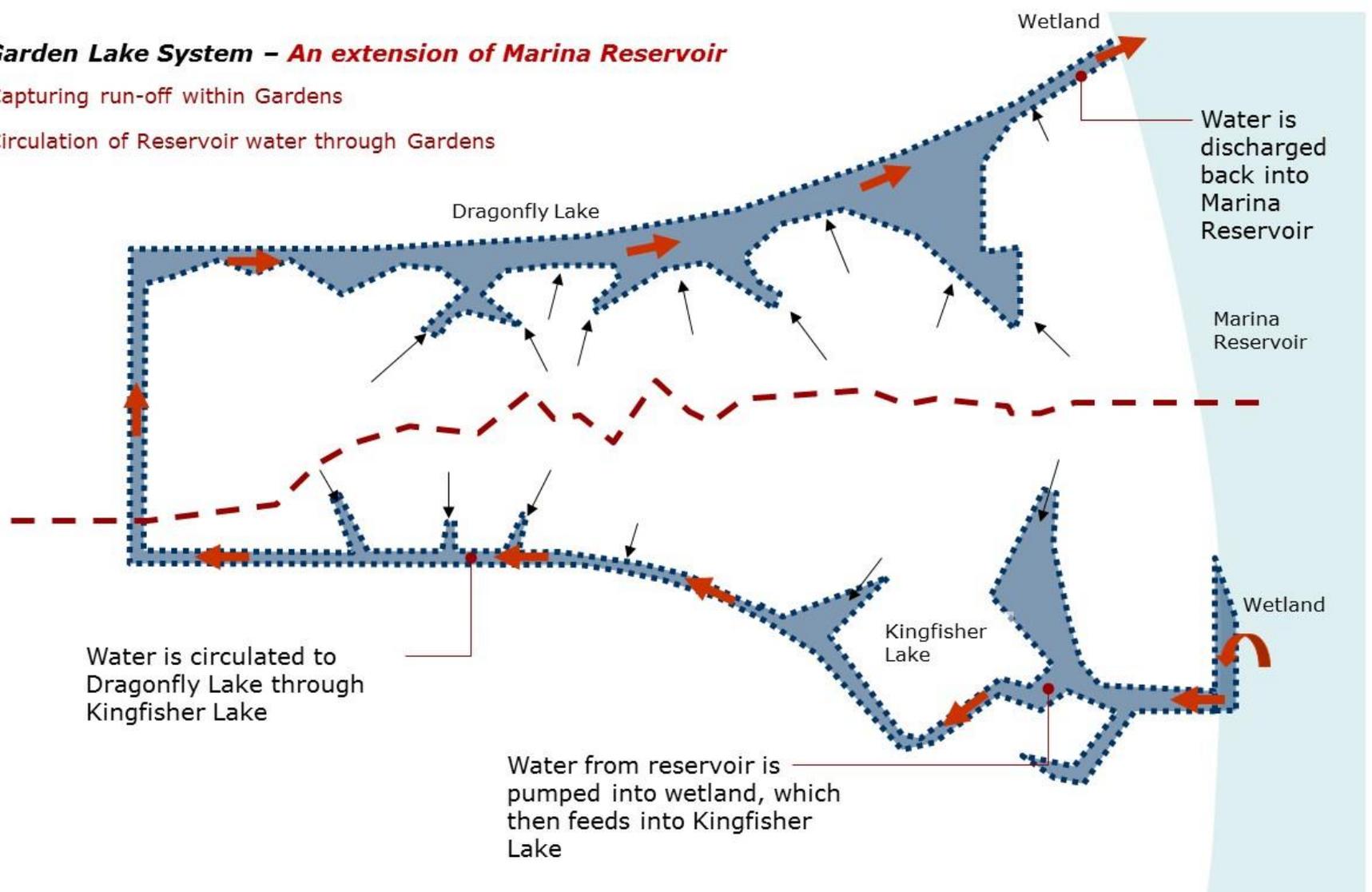


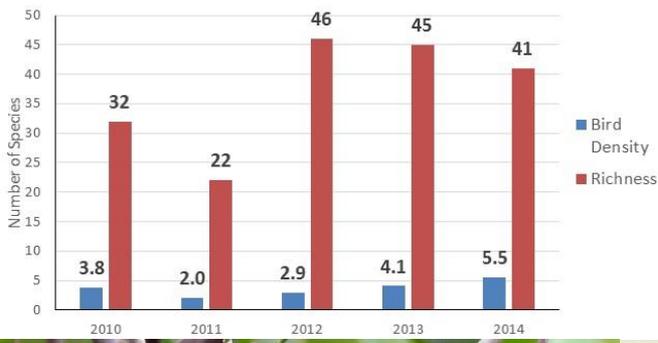
Energy Sustainability

Garden Lake System – An extension of Marina Reservoir

Capturing run-off within Gardens

Circulation of Reservoir water through Gardens





Biodiversity



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Gardens
by the Bay

Entertainment / Events



Mid-Autumn Festival



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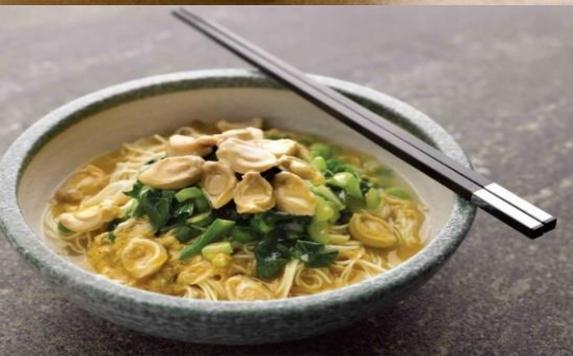


Gardens
by the Bay

Christmas Wonderland

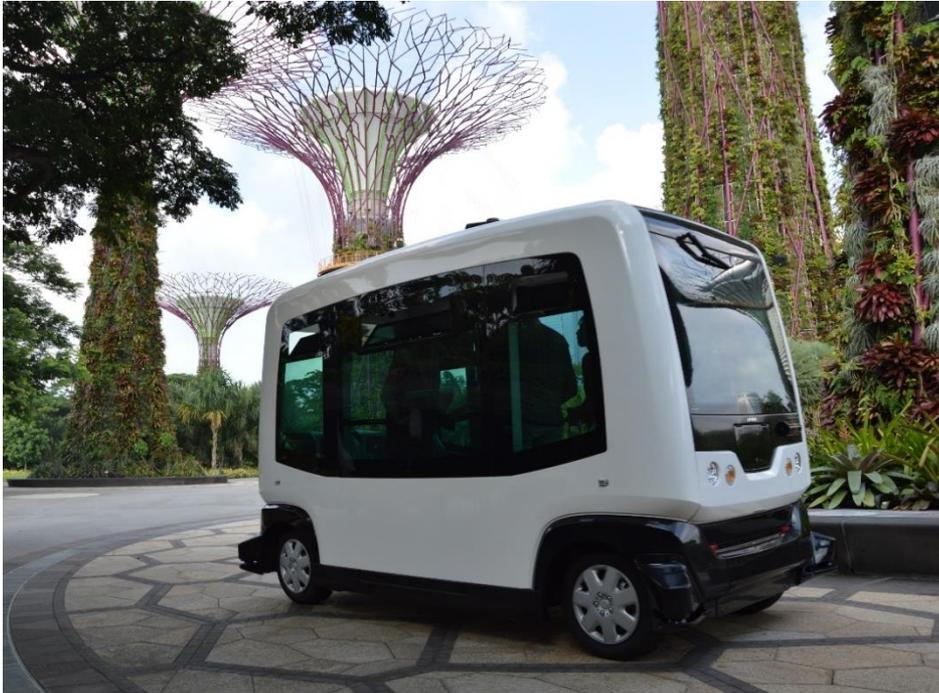


Programming and Outreach



Dining

- **Autonomous vehicles**
- **Audio Tour App**
- **Plant Explorer App**



Harnessing Technology



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