



Gardens by the Bay Singapore 2012

LA Architect:
Grant Associates
Architect:
Wilkinson Eyre



Photo by [Sergio Sala](#) on [Unsplash](#)





Brief

**One of the most
amazing tropical
gardens in the world**

**Best recreational
outdoor in Singapore**



Gardens by The Bay
Singapore

Photograph by Robert Such



Site plan

Gardens by The Bay Singapore

Totalling 101 hectares comprising of 3 gardens



<https://grant-associates.uk.com/projects/gardens-by-the-bay>





Surrounding

**Marina Bay
Along the promenade**

**Part of Singapore's
“City in a Garden”
vision**

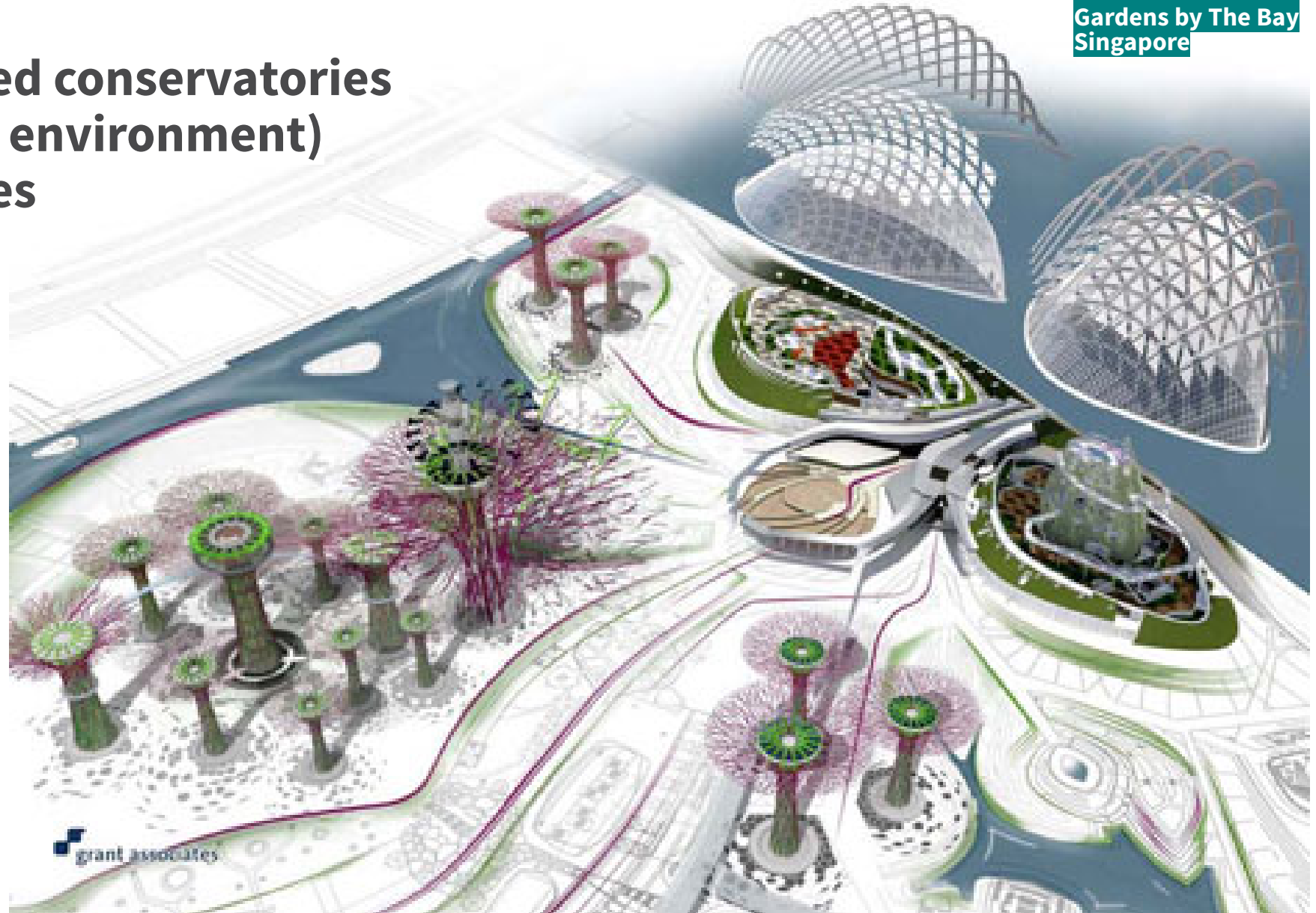




Features of the site

Two cooled conservatories
(artificial environment)
Supertrees

Gardens by The Bay
Singapore



grant associates

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Two cooled conservatories

Creating new climate
to suit particular
plants

No designed paths inside
the conservatories

Gridshell structure with
clear internal view



Gardens by The Bay
Singapore



First cooled conservatory: Flower Dome

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Displays plants and flowers
from the Mediterranean-
type climatic regions





Second cooled conservatory: Cloud Forest

Tropical plants and
artificial waterfall

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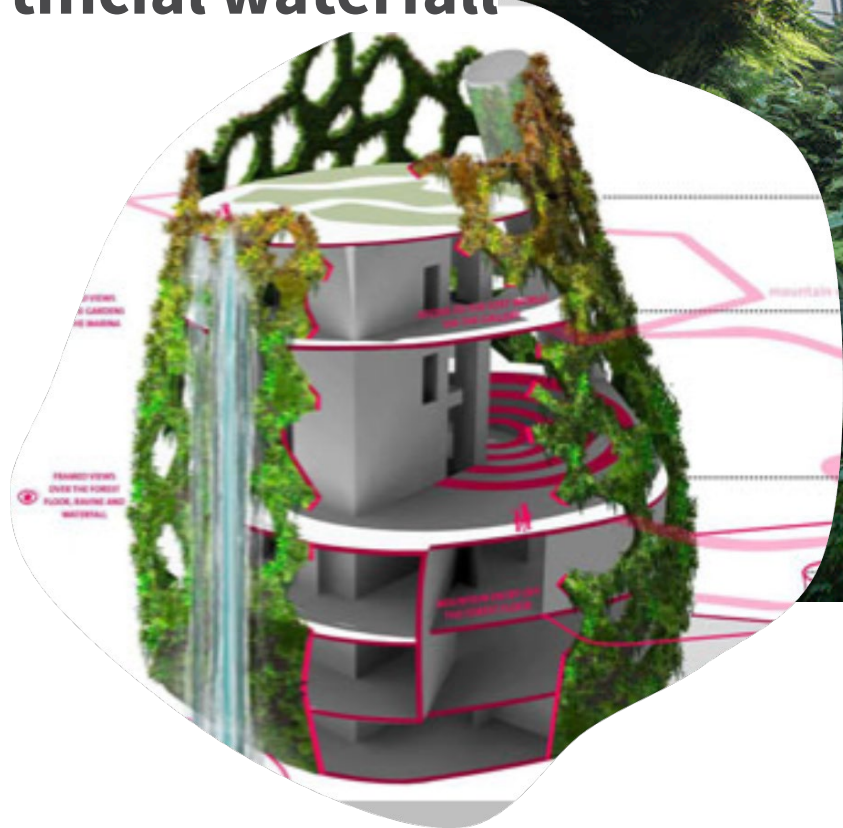




Second cooled conservatory: Cloud Forest

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Tropical plants and artificial waterfall

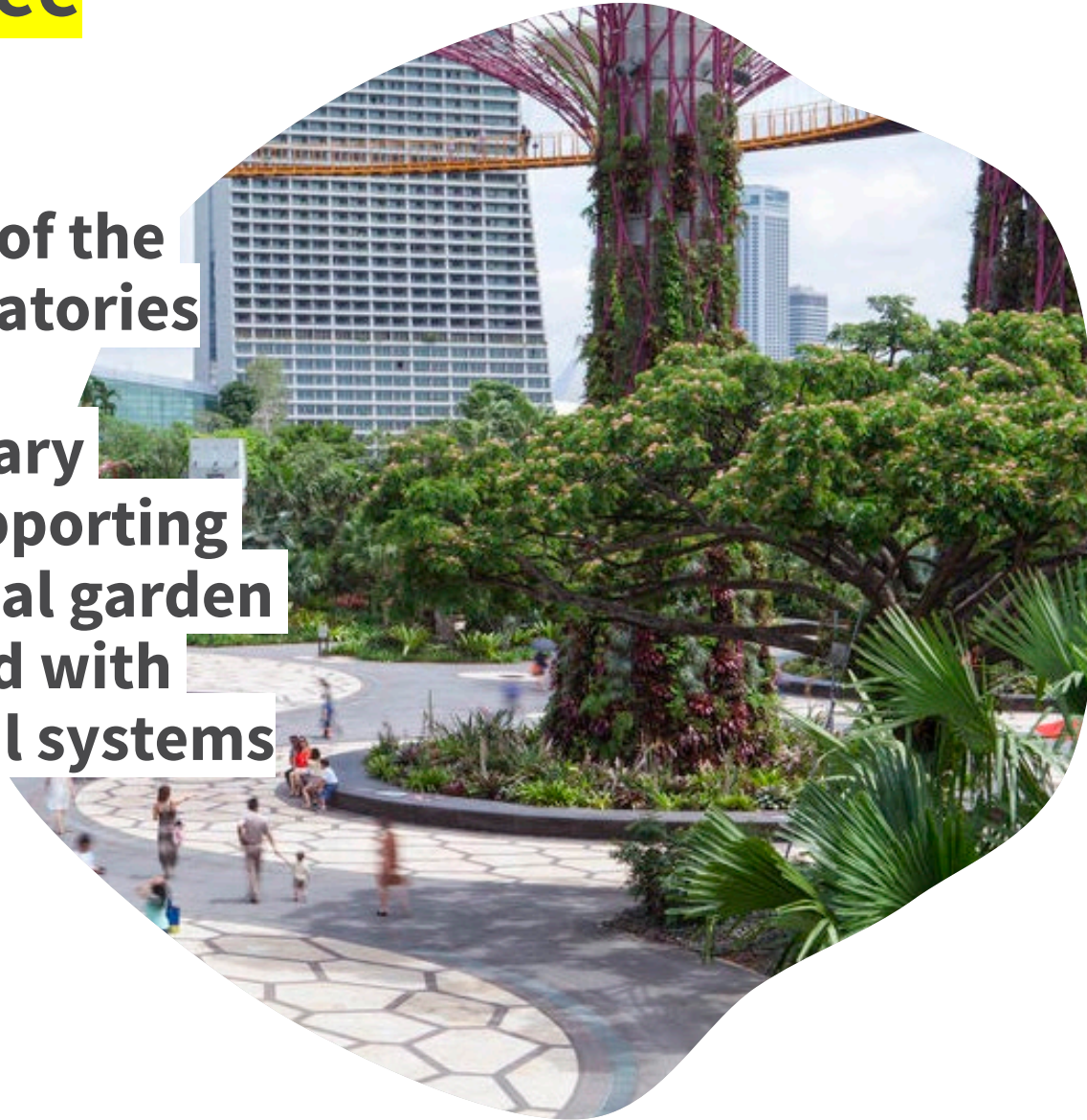




18 Supertree

Brief:
**Counterpoint of the
cooled observatories**

**An extraordinary
structures supporting
vertical tropical garden
and embedded with
environmental systems**



**Gardens by The Bay
Singapore**





Day time and night time





Environmental strategies

Gardens by The Bay
Singapore

Each super tree serves as
environmental strategy:
Rain water harvesting,
PV, thermal panels or
exhaust venting of the
cooling system.





D2.2 Discuss:

How do these roles achieved in the project?

Gardens b

- Medium and means for **adapting cities to climate change**
- Infrastructure** for supporting water resources management and stormwater treatment
- Spaces** for various strategies:
 - Food and energy** production
 - Protection for **biodiversity**
 - Reduction of **noise and air pollution**
 - Improving **urban microclimate** and **outdoor thermal comfort**
 - Promoting **public health**
 - Creation of **more equitable and inclusive environments** , as cities become more socially fragmented and stratified

Rinaldi Bianca, M. & Tan Puay, Y. (2019). Introduction: Landscapes and Densities. *Urban Landscapes in High-Density: Cities, Parks, Streetscapes, Ecosystems.*

