

#### Gardens by the Bay Singapore 2012

#### LA Architect: Grant Associates Architect: Wilkinson Eyre



Photo by <u>Sergio Sala</u> on <u>Unsplash</u>

**Brief** 





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

# Best recreational outdoor in Singapore

Gardens by The Bay Singapore



# 

# Site plan







## **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



#### Two cooled conservatories

Creating new climate to suit particular plants

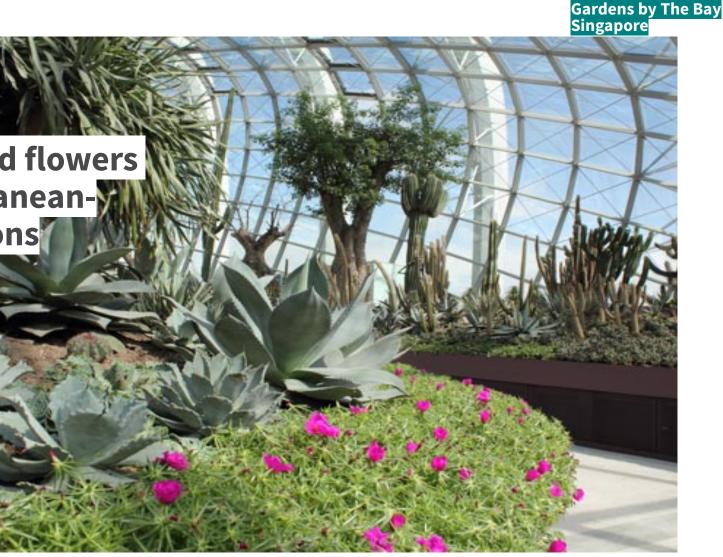
No designed paths inside the conservatories

Gridshell structure with clear internal view

Gardens by The Bay Singapore

# First cooled conservatory: Flower Dome

Displays plants and flowers from the Mediterraneantype climatic regions





## Second cooled conservatory: Cloud Forest

# Tropical plants and artificial waterfall







### Second cooled conservatory: Cloud Forest

Gardens by The Bay Singapore

# Tropical plants and artificial waterfall

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



#### **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

57



LANDSCAPE ARCHITECTURE LECTURE : LANDSCAPE IN URBAN CONTEXT



# Environmental strategies

Each super tree serves as environmental strategy: Rain water harvesting, PV, thermal panels or exhaust venting of the cooling system. Gardens by The Bay Singapore 59



# D2.2 Discuss: How do these roles achieved in the project?

Gardens by The Bay Singapore

https://miatedjosaputro.com/2020/02/22/la-in-urban-context-d2-2/

- 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.