

## Gardens by the Bay, Singapore, 'A city within a Garden' -



Three distinctive waterfront gardens in the heart of Marina Bay that will define Singapore as the world's premier tropical garden city.

Gardens by the Bay epitomises NParks' vision of creating a City in a Garden. Gardens by the Bay will capture the essence of Singapore as the premier tropical Garden City with the perfect environment in which to live, work and help make Singapore a leading global city of the 21<sup>st</sup> century. The Gardens will put in place a pervasive garden ambience and quality living environment from which Singapore's downtown will rise, and steer Singapore to the forefront of the world's leading global cities. It will complement and complete the necklace of attractions that have been planned for around Marina Bay.

Through plant-based edutainment, horticultural displays, garden craftsmanship and floral artistry, Gardens by the Bay will bring out the garden in our Garden City. It will boost Singapore's global standing in tropical horticultural excellence, and enhance our distinctiveness as a Tropical Waterfront Garden City. Ultimately, Gardens by the Bay will help enrich the lifestyles and recreational activities of Singaporeans and tourists alike through high-end edutainment opportunities and a sustainable green infrastructure. This will have a major impact on Singapore's future economic development and growth.

The 101-hectare Gardens by the Bay site are made up of Bay South, Bay East, and Bay Central across the mouth of the Singapore River. Phase 1 of the Gardens is scheduled to open in 2011.

### Bay South



The 54-hectare (approximately 72 soccer fields) garden in Marina South will be a colourful and vibrant heart of our Garden City featuring floral displays and tropical blooms and foliage. Its recreational amenities include an outdoor concert and events arena, and a flower fairground that will be home to the Singapore Garden Festival. The unique feature of this garden will be a cool conservatory complex which will allow visitors to enjoy flowers from around the world in a cool environment.

### Key Features

## Conservatory Complex

Two conservatories (a cool dry and a cool moist) covering more than 2.5 hectares (about 3 and a half soccer fields) will showcase Mediterranean, Tropical Montane and temperate annual plants and flowering species. They will also provide a flexible flower themed venue for events and exhibitions.



## Super Trees

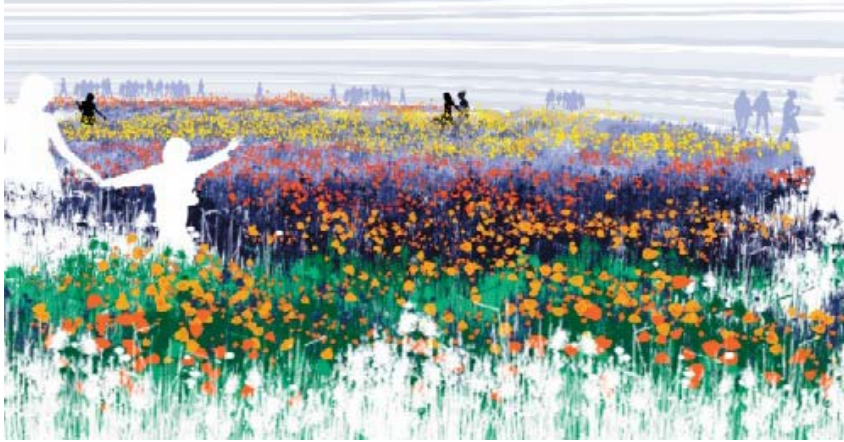
Clusters of super trees ranging in height from 30 metres to 50 metres will be iconic and "wow" structures with several functions: as unique, vertical tropical gardens; as the engine room for the conservatory environmental systems; as receptacles to collect rainwater, to provide shade, to be lit up at night and to house an exclusive bar or F&B outlet. Some of the super trees will also be connected by aerial walkways.



## Horticultural Show Gardens

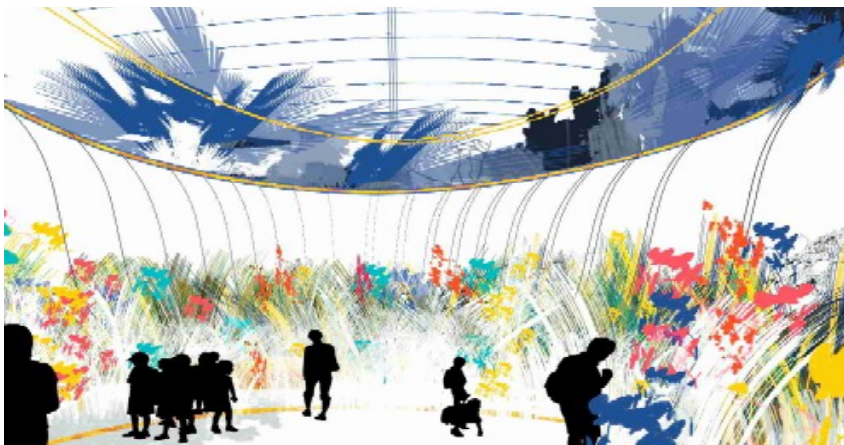
Showcasing colour and the best of tropical horticulture, these gardens will display different floristic themes. Together with mass flowering and coloured foliage landscape,

they will form a spectacle of colour, texture and fragrance within the Gardens around and leading to the central Super Tree cluster and Conservatory.



### **Plant Edutainment Gardens**

Focusing on the theme of "Plant Use by Man", these gardens will display in an interactive manner plant products that have played an economic role in the development of South East Asia and Singapore in particular, plants that are important to the daily lives of people in the Tropics (i.e. ethnobotany), and tell the story of the introduction and discovery of economic plants in the Tropics.



### **Main Events Space**

Occupying an area of about 2 hectares (approximately 2 and a half soccer fields), the main events space will have the capacity to stage events and performances for up to 7,000 people. This events space will have a covered stage that will include a retractable canopy to provide cover for a proportion of the space.





### **Flower Market**

Located off the existing ECP, the Flower Market will be the main entry precinct into the Gardens in the longer term and become a second visitors' hub. It will comprise indoor event spaces, retail and F&B outlets, and visitor services space. The building will have connecting underpass accesses to the Marina Bayfront MRT station and links to the Integrated Resort.

### **Bay East**



This 32-hectare linear garden embroiders a stretch of the Marina Channel Promenade, providing landscaped access to a strategic portion of Singapore's waterfront. It serves as the link between Bay South and Bay Central. It will form an uninterrupted sweep of garden space around the waterfront, linking up with East Coast Park, which extends along much of Singapore's south-eastern shoreline. Development of Bay East will be themed for aquatic sports and waterfront recreation such as canoeing, non-motorised sports such as sculling and dragon boat races.

### **Key Features**

#### **Food Gardens**

The Food Gardens will showcase food plants used by the various cultures in Singapore and South East Asia. These gardens are paired with food and beverage outlets.



### **Water Gardens**

The various water gardens ranges from a reed and aquatic gardens, to a waterfall feature that cascades into a wave pool, which also serves as a wading pool.



### **Boating Quay**

Comprising a visitors' hub and a colour garden, the Boating Quay will be the main point of entry to the Gardens. A boat slipway from where dragon boats and canoes could be launched during races in the water fronting the Gardens is provided. A boat-house and lifestyle centre providing supporting amenities such as club house and changing/shower rooms/toilets are being proposed.



### **Theme Building**

An interactive centre that will tell the story of water, plants and animals in nature and trade. It will be the anchor attraction in the Gardens.

### **Bay Central**



This 15-ha linear garden with a waterfront promenade stretching 2.8 km will serve as an urban connector between the other two gardens, providing access to cultural activities at The Esplanade Theatres on the Bay arts centre.

The Jury of the Gardens by the Bay (GB) International Master Plan Design Competition decided not to select a winning design for Bay Central. The Jury felt that Bay Central did not require a master plan, in view of its smaller area and narrower width compared to the other two Gardens. Instead, there is scope to see how ideas from the other submissions to the GB International Master Plan Design Competition, as well as public feedback could be incorporated into the design of this strategic linear garden.

The studios **Grant Associates** and **Gustafson Porter** won an international competition to design a landscape garden space for the Singapore government and came up with this wild and fantastic space. Covering 101 hectares of land and encompassing a park, the waterscape and a marina, Gardens By The Bay consistent of completely pre-designed and absolutely original vertical gardens and supermassive tree-structures which will integrate the several indoor/outdoor spaces during the day, and be lit up with a totally original lighting scheme and schedule by night. Officially opening in 2011, I could only imagine what it would be like to have a public park like this in my backyard... it's literally breathtaking inside and out.

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## About Grant Associates

Grant Associates is a Landscape Architecture consultancy specialising in the creative design of both urban and rural environments. We are involved in a number of forward looking projects throughout the UK, Europe and the Far East, often working with some of the world's leading architects and designers.

Established in 1997 the Practice has built up a reputation for innovative, ecologically based design and the ability to shape useful and sustainable landscapes with distinctive contemporary character. We are concerned with the connection between people and nature and since our inception we have been consistently involved in cutting edge design projects which are built around a concern for the social and environmental quality of life, searching for bold and imaginative solutions to complex and demanding briefs.

We have experience in all scales and types of ecological and landscape development including strategic landscape planning, masterplanning, urban design and regeneration and landscapes for housing, education, sport, recreation, visitor attractions and commerce.

Much of our work is the product of a diverse and successful collaboration between the client and dedicated consultants working together to push forward the integration of ideas through complementary skills, disciplines and up to the minute thinking on design, social concerns and technological innovation. Our clients include The National Trust, Urban Splash, Rolls Royce, English Partnerships, Foreign and Commonwealth Office, Wessex Water, National Parks Board of Singapore and various public and private organisations across the UK and overseas.

Grant Associates is a Private Limited Company based in Bath, England and is registered with the Landscape Institute. We also have a project office of landscape architects and architects in Singapore.

## About Gustafson Porter

Gustafson Porter is an International Landscape Design practice based in London. Gustafson Porter operates across the diverse disciplines of landscape, architecture, engineering and design. The work of the practice expresses the tension and balance between opposing forces in the built and the natural world which is striking and contemporary. Gustafson Porter is inspired by the complexity of the human condition and the desire for stability as well as change in the modern world. The approach is simultaneously rational and emotional, disciplined but loose, structured yet ever changing.

Kathryn Gustafson established her landscape architecture practice in Paris in 1980 working as a sole practitioner and in collaboration with architects, artists and engineers. Her completed work in France encompasses a wide range of landscape projects from parks such as Fragments of Garden History (Les Jardins de l'Imaginaires) in Terrasson, landscapes associated with major buildings including the headquarters for Shell, Esso and L'Oréal near Paris and urban squares including The Square of Human Rights in Evry and Square Rachmaninov in Paris.



Gustafson Porter Ltd was founded by Kathryn Gustafson and Neil Porter in 1997, with Mary Bowman joining the partnership in 2002. Gustafson Porter has projects in the UK, Europe, Asia and the Middle East. Completed projects range from the 1km long Westergasfabriek Culture Park in Amsterdam to the interior landscape of the Great Glass House at the National Botanic Garden of Wales. Gustafson Porter is currently working on landscapes for the cities of Singapore, Jeddah, Beirut and Liverpool, all with varying needs and contexts that require innovative and unique solutions.

In 2000 Kathryn Gustafson, with partners Jennifer Guthrie, and Shannon Nichol, established the practice Gustafson Guthrie Nichol Ltd in Seattle, with current projects predominantly located within the US and Asia.

Together, the US and UK offices are engaged in projects across Europe, Asia, the Middle East and the United States, winning international acclaim for a growing portfolio of dynamic and exciting work.

### **Gardens by the Bay Facts**

- Singapore's geographical location is 1 22 N, 103 48 E. The equator passes 137km south of the island.
- Singapore has a population of 4.6 million (Jul 07 estimate) and a land area of 682.7 sq km or about 3.5 times the size of Washington DC.. It has a coastline of 193km.
- Gardens by the Bay comprise three gardens around the Marina Channel in the southern part of Singapore. The Marina Barrage's Marina Channel is a fresh water lake and supply 10 per cent of Singapore's water needs.
- The total size of Gardens by the Bay is 101 hectares or 177 football fields. Bay South is 54 hectares, Bay East is 32 hectares and the Bay Central is 15 hectares.
- The Gardens will be built on land that was reclaimed from the sea some 30 years ago. The new downtown Marina City is being developed around Marina South.
- In January 2006, an international master plan design competition for the Gardens was launched. Some 70 teams comprising 170 firms, from over 24 countries, including 35 from Singapore, participated in the competition.
- An 11-member Jury comprising local and international experts shortlisted eight teams and two winners were announced in September 2006; namely Grant Associates for Bay South and Gustafson Porter for Bay East, both from the UK. Bay Central will be developed later.
- A public exhibition of the master plan concepts and models of the winning teams was held from 6 to 23 September 2006. Some 10,000 people visited the exhibition and over 700 gave feedback directly via feedback forms, face-to-face interviews, online feedback and focus groups surveys.



- An overwhelming majority (85%) of those surveyed liked the features in the master plans and over 97% said they would visit the gardens.
- The site for the Gardens (Bay South and Bay East) was hoarded up in June 2007.
- The first phase of the Gardens is expected to complete by end 2011.

[1] 1 hectare = 10,000 square metres