

SENTOSA SENSORYSCAPE

Project Statement

An interdisciplinary and integrative design approach between Architecture and Landscape from its inception has ensured that Sentosa Sensoryscape is an immersive environment to a series of diverse spaces aimed at heightening the sensorial qualities of the vessels and main walk, while creating an engaging visitor experience at every touchpoint.

Sentosa Sensoryscape provides a flexible, inclusive and activated space with enhanced ecological and social benefits for increased connectivity between communities of fauna and flora with visitors, from a diversity of cultures and across all age groups.

As a constantly evolving multi-functional ecosystem that is able to bridge between the present and future, Sensoryscape will grow and thrive with matured planting through time, forming an important bridge between ecological stepping stones within the island and the wider site context of Singapore.

SENTOSA SENSORYSCAPE

3 Siloso Rd, Singapore

Area: 31,791.82 sqm Construction cost: N.A

Completion Date: March 2024

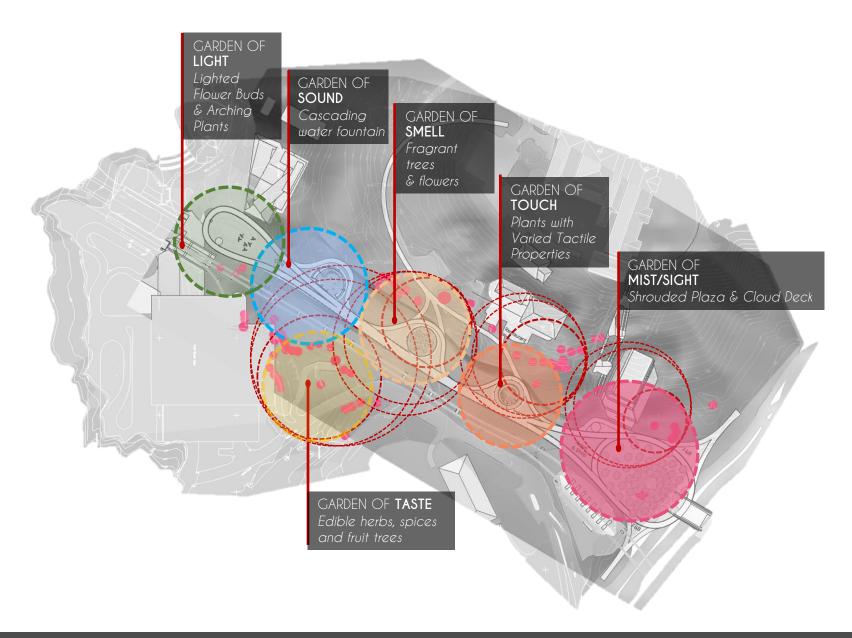


Identified existing ecological valuable tree clusters were further enhanced with projected extent of proposed tree planting for canopy connectivity required for avian fauna of birds and butterflies' movements along the East-West axis.



The Site As a Key Stepping Stone Connects between 2 Ecological Zones, Forming the Continuous Ecological Corridor

As the main artery connecting between North and South of Sentosa, Sensoryscape posits as an integral ecological stepping stones for the movement of avian fauna within East Asian-Australian flight corridor, whilst maximizing conservation of the natural heritage.



Botanical Collection Of Plants for the 5 Senses Integrated with Ecological Corridor

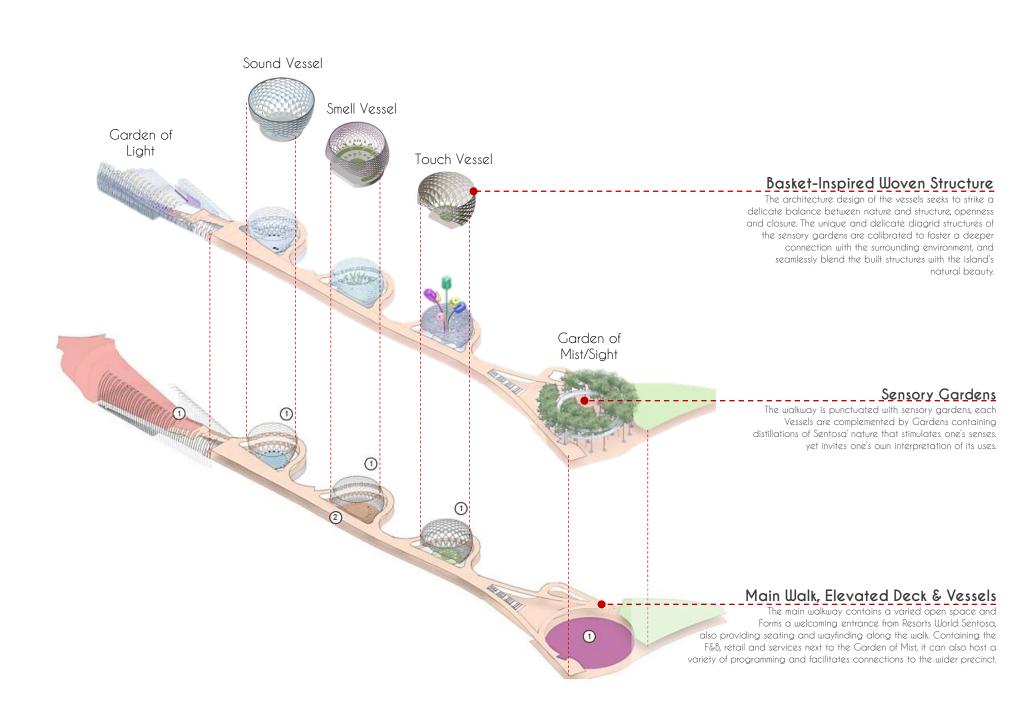
A total of 38,270 numbers of trees and shrubs, of which more than 116 different native and fauna-attracting plant species were introduced to ensure for biodiversity continuity, whilst integrating within each micro-climate context and designed sensorial requirements of the varied thematic zones.



Sentosa Sensoryscape an Ecological Walk that Links Sentosa Together

Sensoryscape enables a unique encounter between our senses and the surroundings. The overall design aims at creating a holistic experience based on a journey through several horizontal layers of the site and surrounding landscape - resulting in a distinctive panorama that influences the experience in all of our senses.

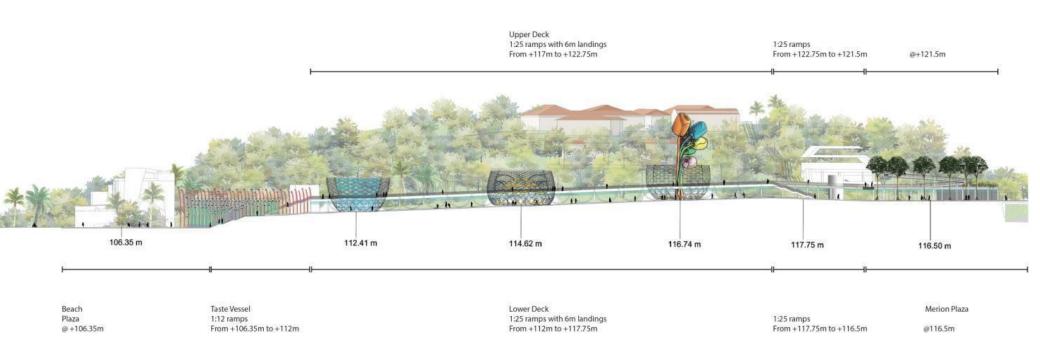
Integration of the proposed green spines along Sensoryscape enabled for seamless connectivity between the development, landscaped terrains and its wider context.





Ecological Continuity Across the Site

New trees planting integrated with existing conserved trees are allowed to flow across the walkway, creating the ecological continuity that connects beyond the boundaries of the development, facilitating movements of avian fauna within Sentosa Island and beyond.



The Walk Hugs the Topography and achieves Universal Access Across the entire length

Designed with users in mind, the entire 350m thoroughfare is integrated with gentle 1:25 gradient and universal accessibility features of ramps and lifts. Lined with towering sensory gardens combining nature, architecture and technology. The elevated universal accessible walk with connection points between upper and lower deck at every 90m interval, affording an dynamic environment of changing levels with new view corridors and varying sense of depth across Sensoryscape.



OVERALL SITE PLAN

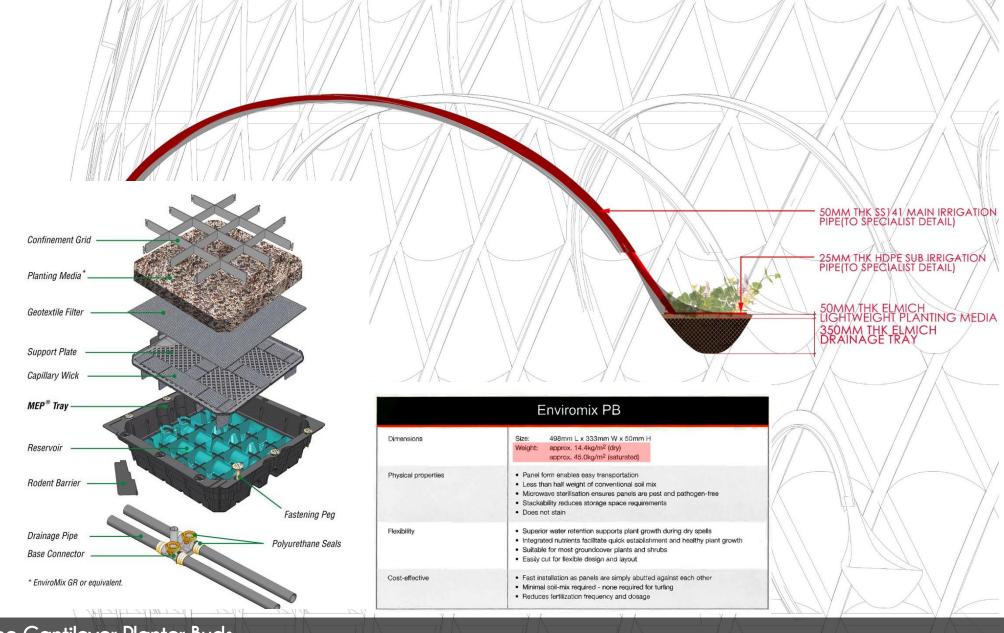
The strategic location of Sentosa Sensoryscape as the main artery connecting between North and South of the island, with enhanced capacity now for multi-functional plaza spaces for events and collaborations, interconnected routes that facilitates connections to the wider precinct. Together with the immersive, multi-sensorial experience coupled with nightly light shows and augmented reality offerings, Sensoryscape has resulted in overall dwelling time and increased footfall for the island.



This multi-sensory experience begins as visitors approach from Garden of Mist/Sight amidst the tall Pink and Red Mempat trees. One takes on an experience of discovery along the cloud deck, following the stream of the occasional misting that unveils the dense canopies of Mempat trees while meandering across the changing elevations of the elevated cloud deck.



Whiff in the fragrances from surrounding flora as one moves along the ground and finally turn one's attention towards the flowering Citharexylum (Fiddlewood), Tarenna odorata, Cyrtophyllum fragrans (Tembusu) and Alstonia angustiloba (Pulai) trees.

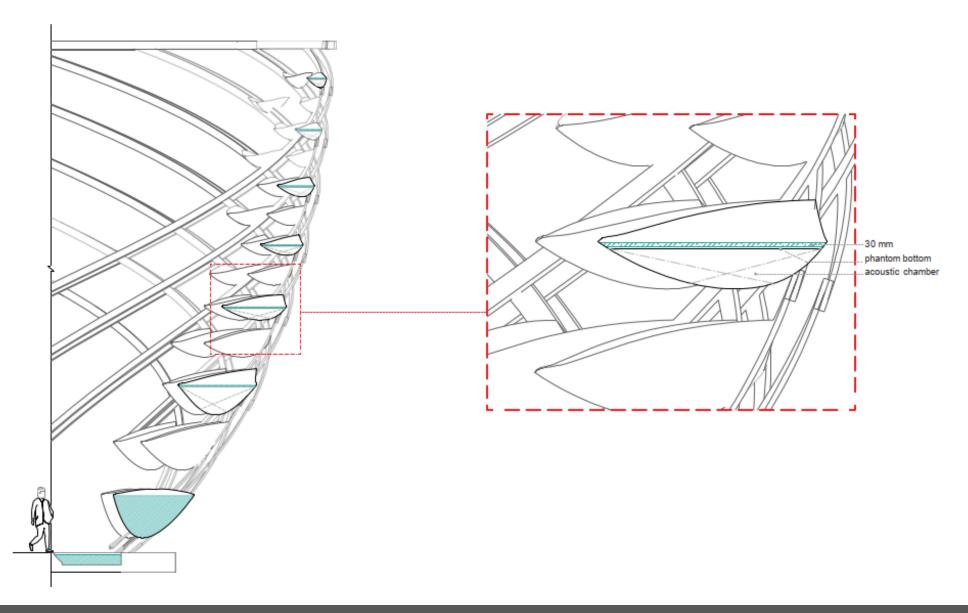


The Cantilever Planter Buds

Designed with maximum loading and maintainability requirements, each planter buds are integrated with lightweight planting media, auto-irrigation with fertigation system and hardy Lonicera japonica creepers to reduce maintenance frequency. All planting areas are designed to have full auto-irrigation system that is linked to BMS and rainwater sensor to ensure water needs are optimized and minimum water wastage. Fertigation within irrigation system will also allow for fertilizer to be dispensed easily without workers, hence reducing need for manual labour and access.



Taking in the orchestra of sounds created water streaming down the cascades of metallic bowls with rustling of leaves and matured pods of Crotalaria retusa (Rattlebox). The lightness and leanness of the structure allow surrounding nature, views and light to permeate through.



Cascades of Metallic Bowls

Each vessel pail consist of a shallow plate of water with an acoustic chamber, water flowing down along the subtle gradient of the metallic bowl base plate from each moulded niche opening, gently amplifying the cascading sounds of water movement.





Showcasing edible plant species of local herbs and spices used in Southeast-asian cooking that can also grow well under the sunbathed conditions and interspersed with avian fauna attracting species throughout the garden, Carden of Taste also has multi-functional plaza that allows for digital floor projections across with augmented reality offerings.



Ecological Bands of New & Existing Planting Amidst Elevated Walkway

Continnum of greenery unfolds along the horizontal axis of Sensoryscape, connecting with the variety of habitat typologies within Sentosa Island. Lush greenery of diverse planting species further increases the visual interest in the complementary reading of planting layers integrated amidst botanical collection of thematic gardens and sensorial vessels.

SENSORYSCAPE PLANTING PALETTE LIST

SHRUBS & GROUNDCOVERS

Acachis pintoi'

Acanthus ebracteatus

Acrostichum aureum

Agave attenuate Aalaia odorata

Aglaonema commutatum 'Malay Beauty'

Alpinia galanga Antigonon leptopus Araucaria excelsa

Ardisia elliptica

Arundina graminifolia Asparagus umbellatus

Asystasia gangetica

Blechnum gibbum

Breynia disticha 'Roseo-picta'

Calathea loeseneri Calathea lutea Calla palustris

Calotropis aigantea

Cananaa odorata var. iasminoides

Casuarina glauca Centotheca lappacea Cheilocostis speciosus Chonemorpha fragrans

Clematis aristate

Clerodendrum buchananii Clerodendrum inerme Clerodendrum paniculatum

Colocasia esculenta Colubrina asiatica Combretum indicum Costus speciosus Crinum asiaticum

Crossostephium chinense

Crotalaria retusa Cymbopogon citratus Cyperus papyrus Davallia denticulate

Dendrobium umbellatum 'Aureum'

Dianella ensifolia 'Green'
Dillenia suffruticosa
Dissotis rotundifolia
Dolichandra unduis-cati
Dracaena cambodiana

Duranta erecta dwarf 'Variegated'

Duranta erecta 'variegated' Echinododrus palaefolius Epipremnum aureum Giant

golden pothos Equisetum hyemale Etlingera elatior Eugenia eniflora Euodia ridleyi

Euphorbia tithymaloides Fagraea ceilanica Ficus nitida 'Gold' Gardenia iasminoides

Grammatophyllum speciosum

Gynura procumbens

Heliconia chartacea 'Sexy Pink' Heliconia 'Golden Torch Sunshine'

Heliconia indica cultuvar Heliconia longiflora

Heliconia psittacorum 'Black Cherry'

Heliconia rostrata Hibiscus mutabilis 'White' Homalomena rubescens

Hoya latifolia
Ipomoea batatas
Ipomoea pes-caprae
Ixora congesta
Ixora lobii
Ixora pendula
Jasminium elongatum
Jasminium multiflorum
Jatropha integerrima
Juniperus (round pine)

Juniperus spp '

Leucophyllum frutescens Lonicera japonica Manihot esculenta var Mansoa alliacea

Melastoma malabathricum Memecylon caeruleum Molineria latifolia var latifolia

Monstera deliciosa Murraya koenigii Murraya paniculata Mussaenda glabra Nepenthes gracilis Nephrolepis biserrata Nephrolepis cordifolia' Nephrolepis exaltata Nephrolepis falcata

Nerium oleander variegated Orthosiphon aristatus

Osmanthus fragrans

Osmoxylon lineare 'Yellow' Pandanus amaryllifolius

Pandanus dubius

Pandanus pygameus 'White'

Passiflora biflora

Passiflora coccinea 'Red' Pedilanthus tithymaloides Pennisetum advena 'Rubrum' Pennisetum setaceum

Petraeovitex wolfei Phanera bidentata

Philodendron erubescens 'Gold' Philodendron xanadu

Phyllanthus cochinchinensis

Piper sarmentosum Pluchea indica Podocarpus spp.

Pogonantherum paniceum Portulaca pilosa sp. Tuberosa

Premna serratifolia

Pseuderanthemum carruthersii var.carruthersii 'Reticulatum' Pseudomussaenda flava

Rhapis excelsa

Rhodomyrtus tomentosa Rotheca myricoides Ruellia brittonia Russelia equisetiformis Sabina chinensis Sanseveria superba

Sanseveria trifaciatia 'moonshine'

Scaevola taccada

Schefflera arboricola 'Worthy'

Sedum mexicanum

Selaginella wildenowii

Senna alata

Sophora tomentosa
Spathiphyllum cannifolium

Spathiphyllum sensation Spathoglottis plicata

Strophanthus gratus

Syngonium podophyllum (Green)

Syngonium podophyllum 'White Butterfly'

Syzygium myrtifolium Tetracera indica

Thaumatococcus daniellii

Thuja accidentalis 'Janed Gold'

Thuja pine

Tradescantia spathacea Tristellateia australasiae

Typha angustifolia

Vernonia elliptica

Volkameria inermis Uledelia trilobata

Xanthostemon youngii

Zingiber officinale

SENSORYSCAPE PLANTING PALETTE LIST

TREES AND PALMS

Alstonia subspatulata

Aquilaria malaccensis

Ardisia elliptica

Areca catechu Averrhoa bilimbi

Averrhoa carambala

Baccaurea parvifolia

Barringtonia asiatica

Buchanania arborescens

Caesalpinia ferrea

Calophyllum inophyllum

Ceiba speciosa Cerbera manahas

Citharexylum spinosum

Coffea arabica

Cola nitida

Conocarpus erectus var. sericeus

Cordia subcordata

Cratoxylum cochinchinense

Cratoxylum formosum

Cynometra ramiflora

Dillenia excelsa

Dillenia indica

Dimocarpus longan

Diospyros blancoi

Eucalyptus deglupta

Eurycoma longifolia

Fagraea fragrans

Garcinia atrovirdis

Garcinia mangostana Garcinia subelliptica

Gardenia carinata

Gardenia tubiferea

Gnetum gnemon

Knema globularia

Lagerstroemia floribunda 'jack'

Lagerstroemia langkawiensis

Lagerstroemia speciosa

Leptospermum brachyandrum

Magnolia alba

Magnolia champaca

Melaleuca cajuputi Milettia pinnata Millingtontia hortensis

Muntingia calabura'

Myristica fragrans

Neolitsea cassia

Nephelium lappaceum

Peltophorum pterocarpum Podocarpus polystachyus

Pometia pinnata

Pouteria obovata

Psidium guajava Rhodomnia cinerea

Sandoricum koetiape

Scaphium macropodium

Senna alata

Spondias dulcis

Sterculia parvifolia

Sterculia rubiginosa

Suregada multiflora

 ${\it Syzygium\ aqueum}$

Syzygium jambos

Syzygium lineatum

Syzygium zeylanicum

Tabebuia aurea

Tabebuia rosea Tarenna odorata

Theombroma cacao

Tristaniopsis merquensis

Tristaniopsis obovata