

TEBET ECO PARK

"Connecting People With Nature"

PROJECT NARRATIVE

Tebet Eco Park is a 7-hectare public park revitalization project located in South Jakarta with focuses on an active regeneration of the site's ecology with tree conservation and enhancing the blue green infrastructure. The ecological landscape design approach reduces the risk of flooding with river re-naturalization. The result of this new urban regeneration cultivates an inclusive environment that facilitates access to a wide offering of recreational activities in a natural setting. This is the first private-public collaboration project that involves multi government agencies and multi-disciplinary consultant in Jakarta that focus to give a positive impact on the natural environment and public's wellbeing.

RENATURALIZED WATERWAY

The existing 714m channelized e canal which was polluted due to unfiltered stormwater runoff. During high storm events, the park is frequently flooded as climate change drastically effects the precipitation, but the drainage system capacity remains inadequate. A key strategy to ensuring the waterways are appropriately designed through nature-based system to improve the hydraulic performance. The once highly polluted canal is now revitalized into an active waterway with climate-adaptive approach. ecologically restored river, planted with riparian vegetation that improve water quality by filtering and cleansing surrounding run-off and enhancing the site's biodiversity. A wide and meandering waterway increase hydraulic capacity, provide resilient floodplain, and bring the diverse native river ecosystem back to the

SUSTAINABLE CONSTRUCTION

Over 1500 existing trees were surveyed for the health and value assessment. The

landscape design intervention is kept as minimal possible, preserving the valuable trees while also sustaining the natural resources of the site. The excavated materials such as the canal's rubble stone, tree trunk was reused and upcycled as part of the new park construction and feature which involve local carpenter. The unhealthy trees were either relocated to a new location or reused as part of the park's furniture and playground structures. This approach minimizes the carbon emission due to transportation and speed up the construction time.

ACTIVE COMMUNITY PROGRAM

This collaborative approach together with the involvement of local communities and stakeholders for an innovation-driven and co-creation that formulate the project's goal. The active and passive space provides a wide range of recreational, educational and social activities for the community. The revitalized blue-green open space is accessible by people from all ages and background, a park that truly provide social wellbeing for the local community.

ENHANCED CONNECTIVITY

The initial park was divided by the river and busy traffic road segregating the pedestrian connectivity. As a public park, an inclusive connectivity and accessibility for all people is essential. The infinity-shaped pedestrian bridge was designed to encounter the pedestrian connectivity as a seamless pathway. The striking color and meandering bridge were designed to avoid the existing trees and ensure minimum impact to the existing environment, inviting park users to explore the four sides of the park.

Tebet Eco Park has become the catalyst of public park regeneration project in Jakarta that integrate the ecological landscape and recreational space seamlessly, providing a greater equity in the city, an ecosystem where human and nature can coalesce.



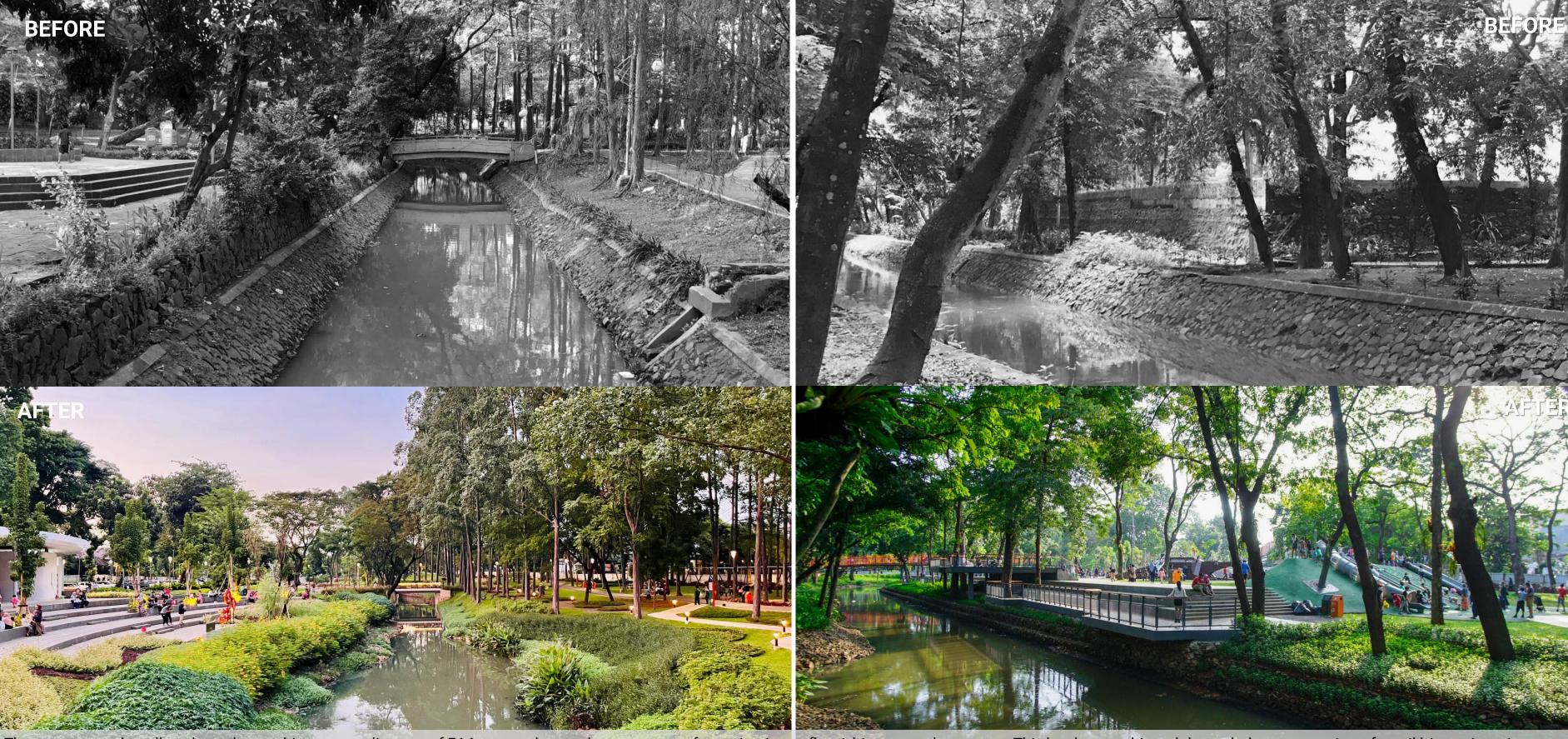








The landscape architecture seamlessly integrate the waterway, greenery, facilities and recreational program that responds to the site's specific character balancing between the nature rejuvenation and community activity needs.



The once severely polluted canal, stretching over a distance of 714 meters, has undergone a transformation into a flourishing natural waterway. This has been achieved through the construction of a soil bioengineering system, which has greatly improved the water ecology.



The soil bioengineering embankment, engineered as an ecologically restored river is embellished with riparian vegetation that enhance the natural aesthetic appeal of the riverbank and entice people toward the waterway



The restored waterway amplifies its fluid dynamism through its expansive floodplain terrain while rejuvenating the park's riverine ecology with diverse native plants, relished by pedestrians traversing the bridge.



The park's blue-green infrastructure is boldly integrated within the park, capturing the stormwater runoff from the surrounding residential, filtering it, slowing it down and retaining it to ease flooding and pollution downstream. The hydraulic stormwater retention capacity was doubled from the original while the flood plain become the flexible community space during dry event.



The wetland islands was built as an effective filtration and detention system for stormwater runoff to easing the park flooding while integrated with diverse array of riparian planting species to enhance aquatic ecosystems.





The Wetland Boardwalk is built with light construction, designed at elevation above 10 years average rainfall event, allowing pedestrian to walk through the park in wet and dry time

REGENERATIVE DESIGN

100+

Affected existing trees transplanted

100%

Wood logs upcycled for furniture and park furnishing

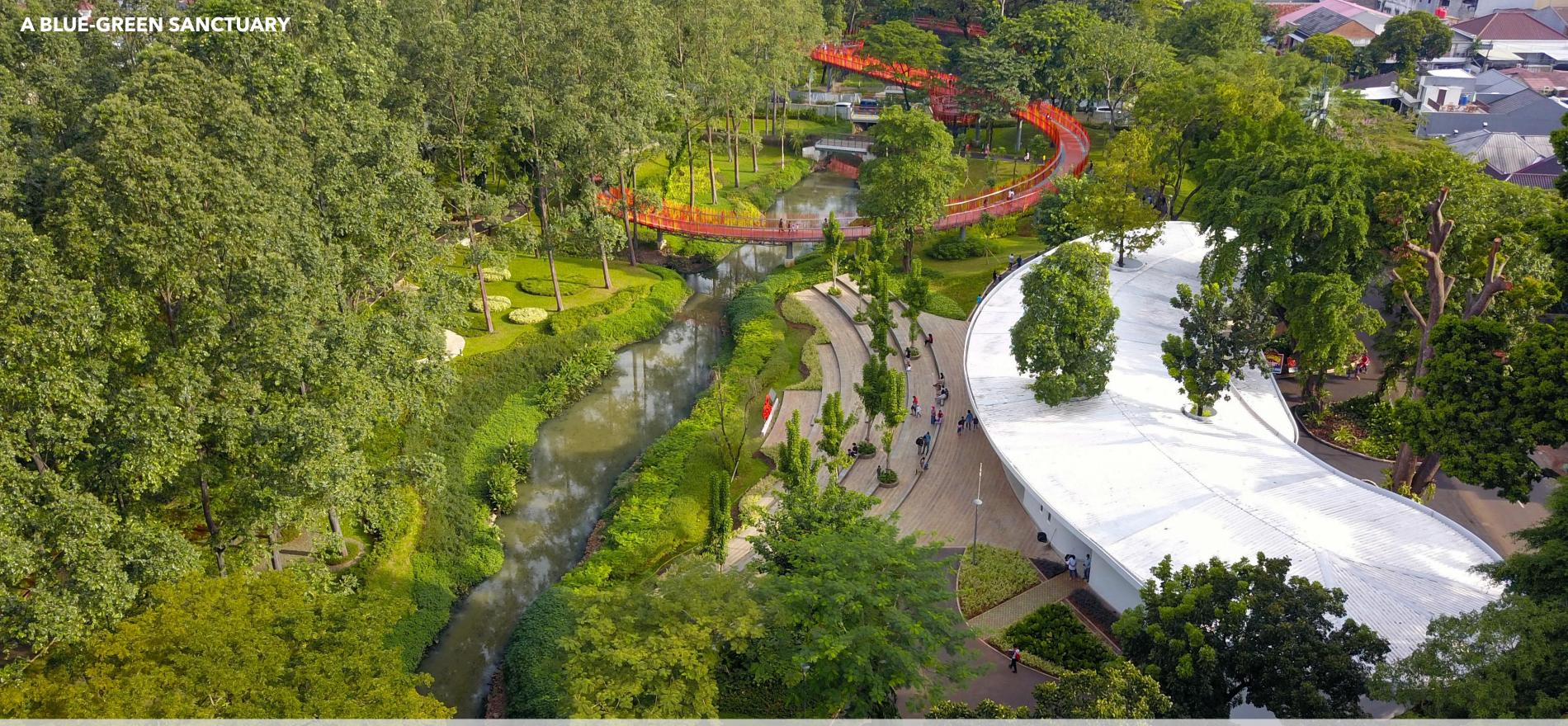
100% Concrete & Stone rubble re-used for bio-



The existing site's excavated materials, such as the rubble stones, concrete, tree logs were reused as part of the construction materials and furniture, minimizing the carbon impact by giving a second life of the materials.



The trees that were felled due to development impact or unhealthy condition are reused as site furniture and play structures embraced by the local community.



The urban regeneration of Tebet Eco Park has successfully weaved the blue-green infrastructure into the city fabric while still accommodating thematic recreational spaces in the densely populated neighborhood area.

The arrival pavilion and plaza is curated as welcoming plaza that provide the first glimpse of the green sanctuary with the original Eucalyptus trees grove view.



The Entry Pavilion with tiered plaza serves as a social area suitable for impromptu group activities such as yoga or street performance, as well as other casual gatherings.







and flexible area that facilitates spontaneous community activities



Jakarta city have been lacking recreational space for children. The Children's Playground is a custom-designed play structure by the landscape architects act as the core recreational place for children to play and explore. The play area is seamlessly integrated with the existing landscape and topography with seatings and platforms provided adequately for the parents to interact.

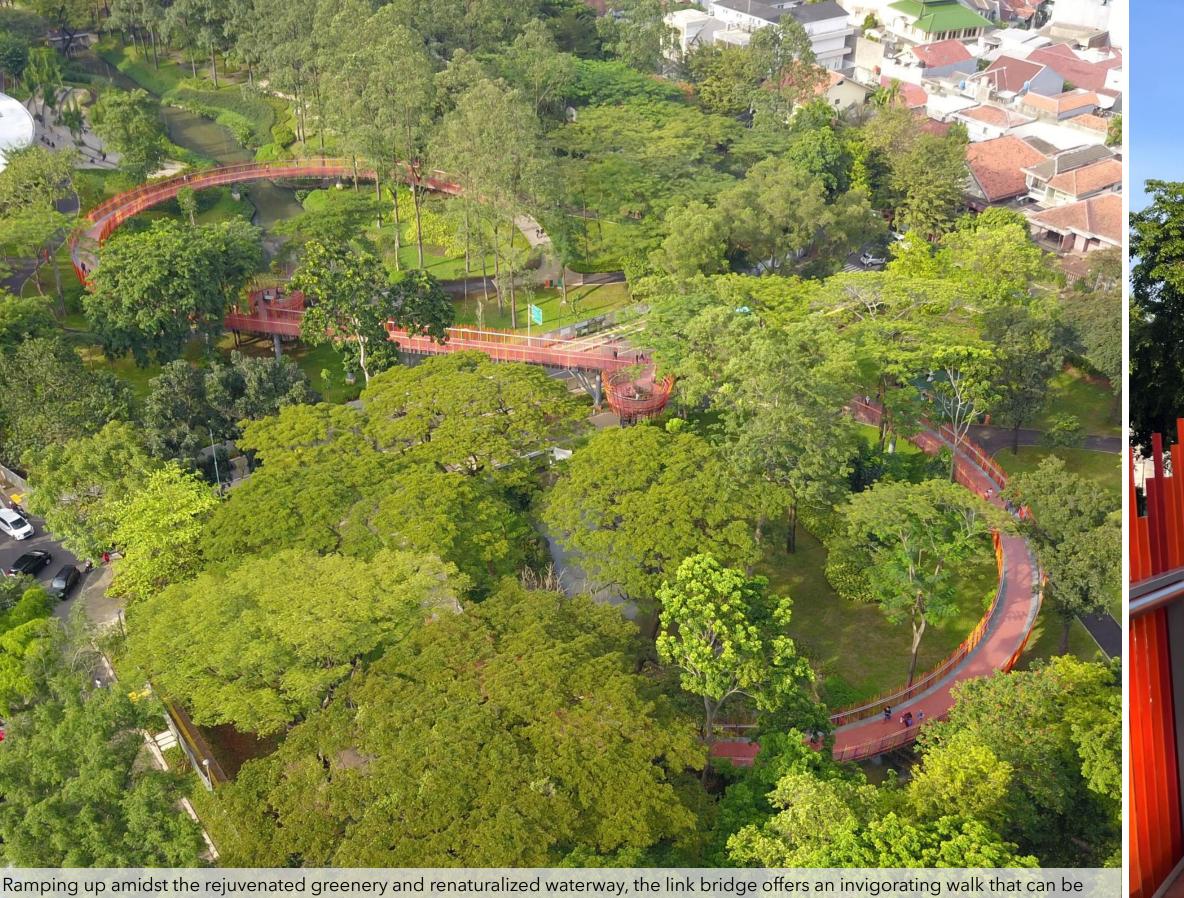


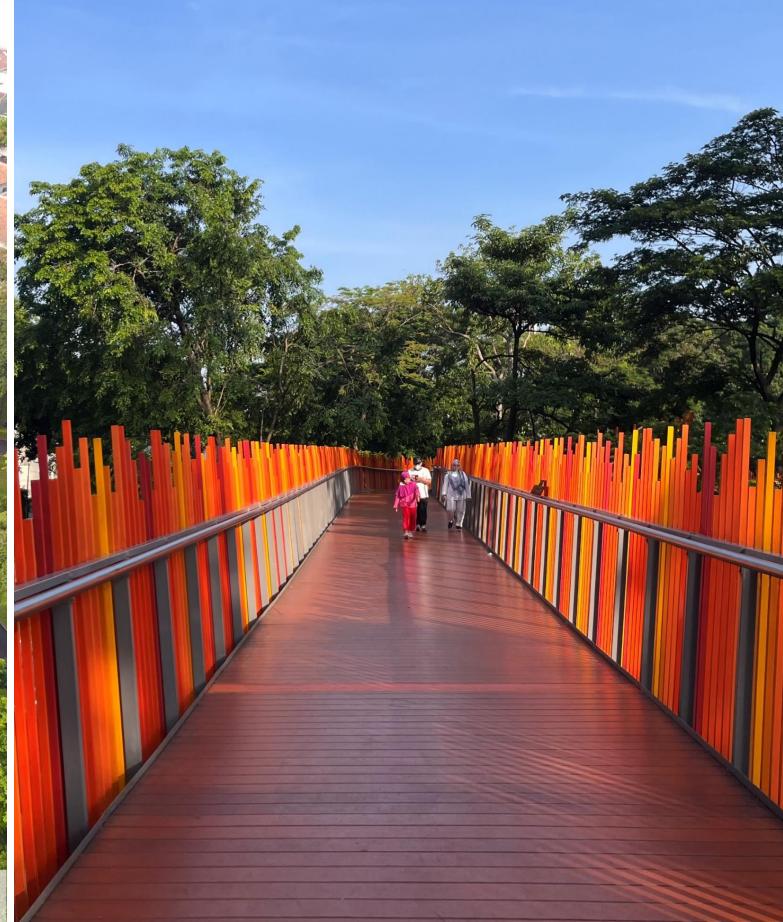






The sinious elevated link bridge serves as an enchanting pathway, ascending and meandering around the established trees, effectively linking the previously disconnected parklands.





Ramping up amidst the rejuvenated greenery and renaturalized waterway, the link bridge offers an invigorating walk that can be effortlessly enjoyed by all pedestrians, providing barrier-free accessibility









The use of large variety of plant species is sensitively located to create subliminally elegant spaces and seamless experience for park user. The existing canopy trees is complemented with new native plants, including shrubs, grasses, flowers and understory trees to increase the biodiversity of riparian, grasses, open shrubsland and forest habitats.

TREE PLANTING LIST

- Samanea saman
 Tabebuia aurea
 Khaya senegalensis
 Swietenia mahogani
 Delonix regia
 Artocarpus heterophyl
 Swietenia macrophylla
- Khaya anthotheca
 Morinda citrifolia
- 11. Polyalthea longifoli
- 14. Pithecolobium dulce

- 38. Manilkara kauki
- 41. Melia azedarach

- 48 Morinda citrifolia

76. Salix babylonica

83. Samanea samar

59. Aleurites moluccana

SHRUB PLANTING LIST

- . Acalypha wilkesiana . Acrostichum aureum . Aglaia odorata

- . Arundina graminfolia
- 9. Arundo donax var. Ver

- 12. Axonopus compressus "o 13. Bambusa vulgaris
- 14. Bauhinia coccinea 15. Blechnum gibbum 16. Breynia nivosa 17. Brunfelsia pauciflora
- 19. Calathea Ioseneri 20. Calathea Ioseneri 'pink

- 24. Costus osae 25. Costus spicatus

- 39. Homalomena rubescen 40. Hymenocallis litoralis
- 41. Hymenocallis specios 42. Ixora chinensis
- 44. Ixora javanica 'pink'
- 46. Lantana pink 47. Licuala grandis

- 49. Licuaia grandis 48. Monstera deliciosa 49. Medinilla magnifica 50. Neomarica longifolia 51. Nephrolephis exaltata 52. Nephrolepis bisserata 53. Ophiopogon jaburan

- - - 63. Polyscias fruticosa

 - 71. Ruellia simplex
 72. Ruellia tweediana
 73. Saccharum officinale

 - 74. Schefflera arboricola 75. Spathiphyllum walisii 76. Spathoglottis plicata

 - 79. Tecomaria orange 80. Thalia delbata

 - 85. Typha angustifolia 86. Typhonodorum lind
 - 87. Vernonia elliptica 88. Vetiveria zizanoides

 - 89. Wedelia trilobata 90. Xanthosthemon

