My Waterway @ Punggol



Surbana

www.surbana.com

My Waterway @ Punggol



Vision

A waterfront town of the 21st century

My Waterway @ Punggol



Functional Brief

To balance the water levels in adjacent potable water reservoirs



Traditional response

Treatment of canals in Singapore



Paradigm Shift

Relaxing waterfront environment for social enjoyment



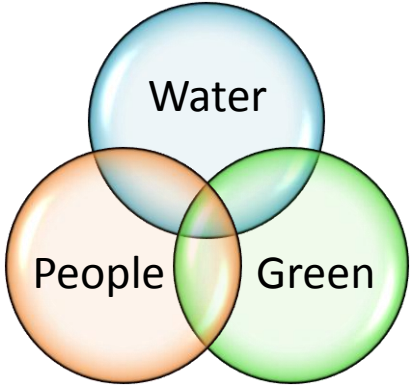
Paradigm Shift

Permanent water body, high water quality



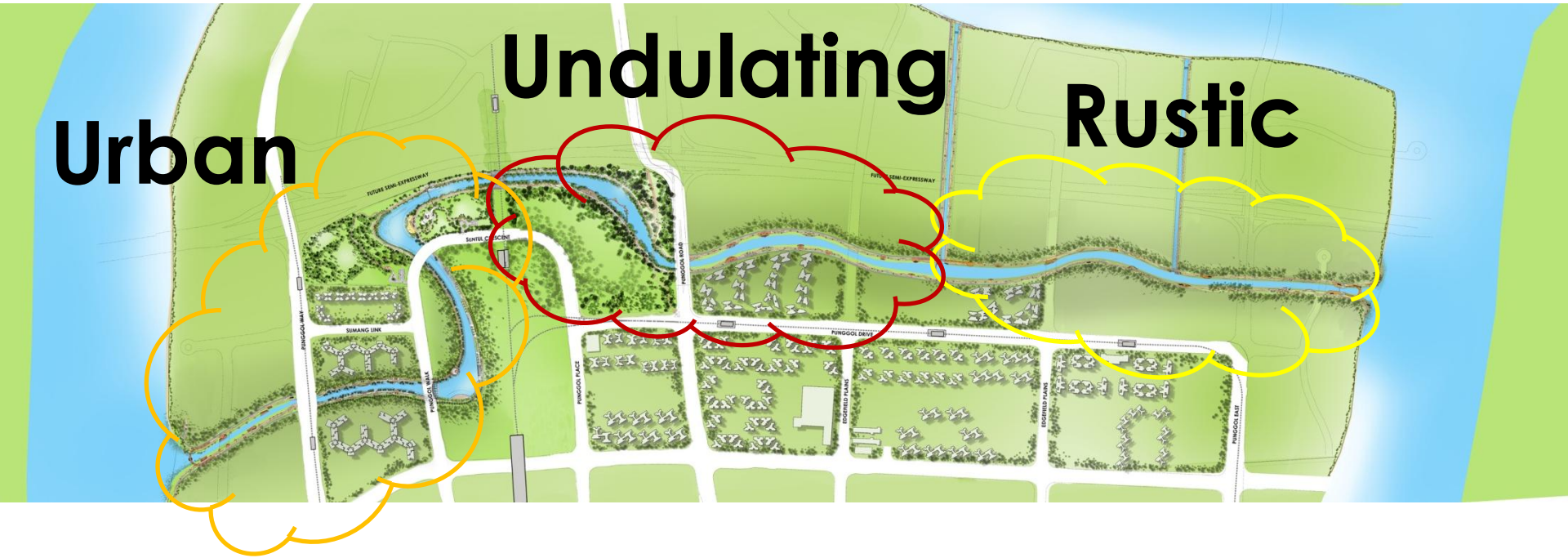
Paradigm Shift

A habitat for native fauna and flora,
A living organism to reduce urban heat effect.



Activity Concept

Bringing People, Water and Landscape together



Design Objectives

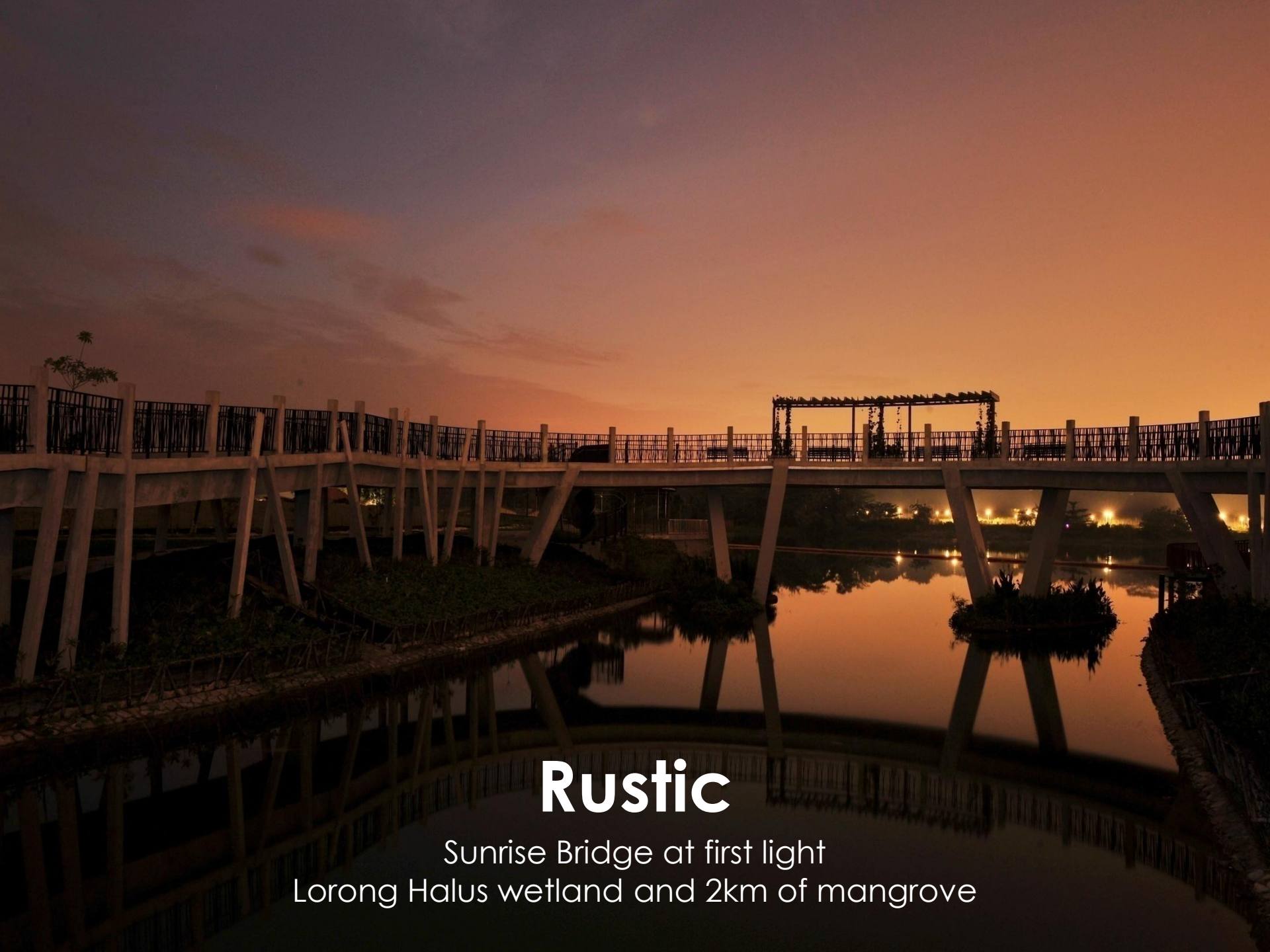
First man-make barrier free and vehicle free recreational waterway

Diverse range of amenities and facilities at all times.



Rustic

A metaphor for Punggol's early days.
Emphasize on it's natural beauty and tranquil quality


Rustic
Sunrise Bridge at first light
Lorong Halus wetland and 2km of mangrove



Rustic

Meandering walkway and educational signboards.



Rustic

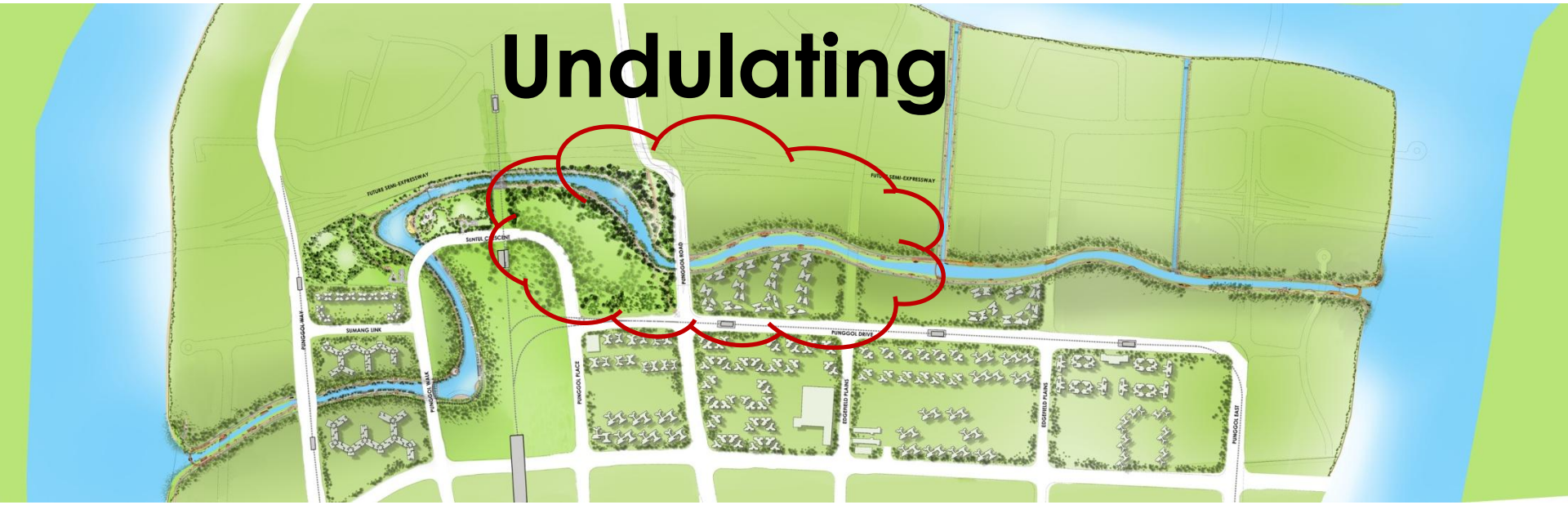
Wateredge planting combined with natural materials
Earthy tones harmonize to the natural settings


Rustic
'lalang' style planting



Rustic

Aesthetic and functional wateredge planting
a backdrop of secondary forest is a borrowed landscape



Undulating

Reflecting the topography and transition to more ordered landscape.
idyllic mood of old Punggol villages,
Green Gallery, Heritage trail



Undulating

Inspired by local vernacular architecture and structures

Enclosures encourage human interactions


Undulating
Seating areas


Undulating
Ample energy saving lighting



Undulating

'Kelong' bridge
follows the 'Old Punggol Road' alignment



Undulating

Special Lighting Details.



Undulating

Adventurous suspension bridge provides different experience



Urban

Completes the transition to refined landscape
Town park, sandpit, heartwave walls, Sunset and Jewel bridge



Urban

Contemporary and playful design



Urban

Every design element is in order and controlled manner.



Urban

Right next to the town center
280m long heartwave wall with vertical green, viewing platforms and unique water features.



Urban

Getting water close to people by introducing water curtains on the heartwave wall



Urban

Water cascades down from the roof of a glass tunnel.



Urban

Water features are both aesthetic and functional.
interspersed with heritage panels



Urban

GFRC heritage panels depicts the local history of Punggol development.



Urban

Creepers along the ‘heartwave’ wall



Urban

Greenery contrasts with natural materials



Urban

viewing platforms



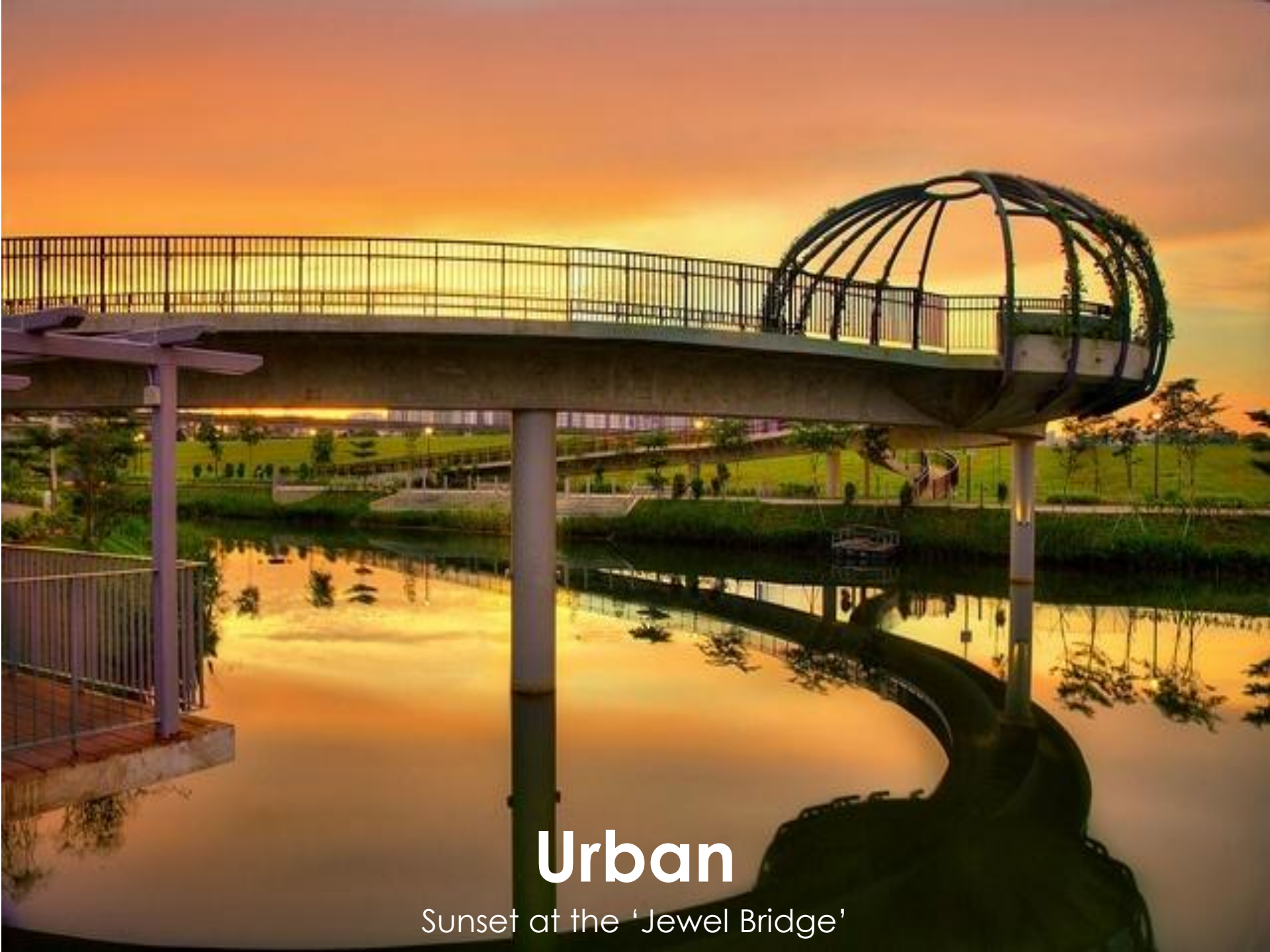
Urban

Dusk at the ‘heartwave wall’ and iconic road bridge at Punggol Walk



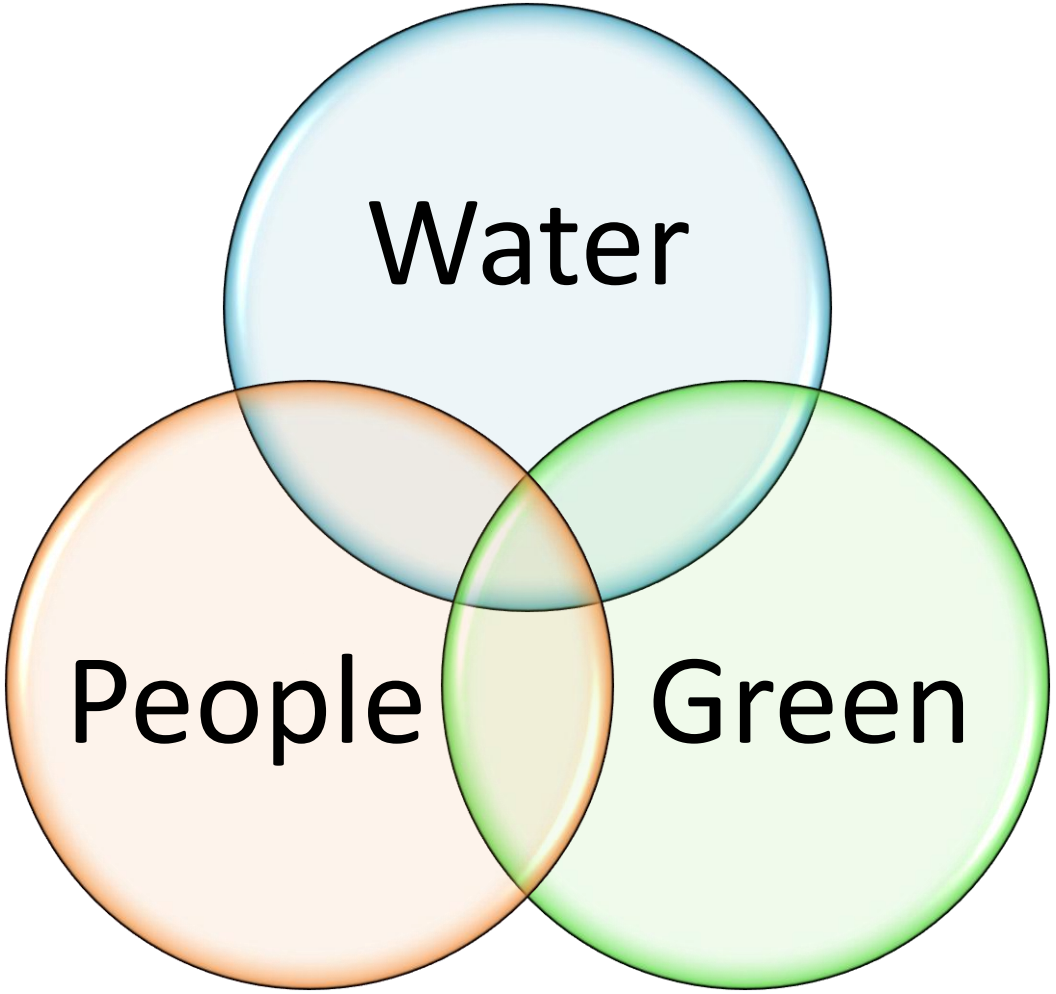
Urban

Dusk at the ‘Jewel Bridge’



Urban

Sunset at the ‘Jewel Bridge’



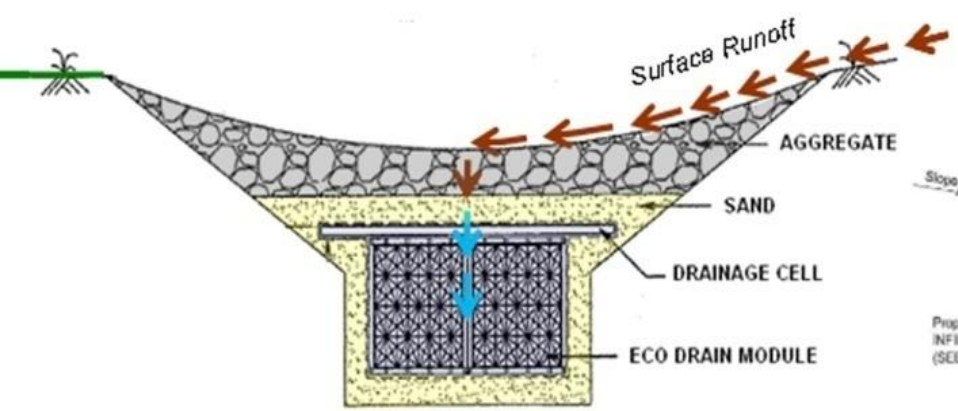
Activity Concept

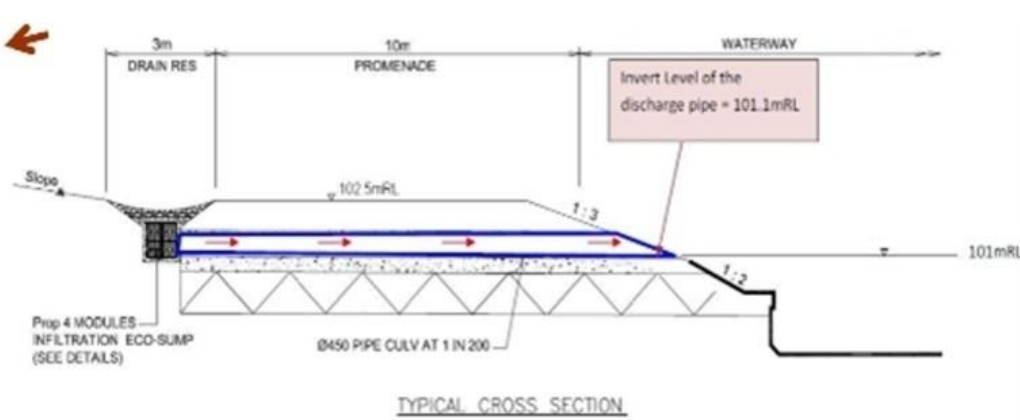
Bringing People, Water and Landscape together



Ecodrain

Cleansing surface water runoff before it enters the waterway





Ecodrain

Cleansing surface water runoff before it enters the waterway



Water Access

Cantilever observation decks



Water Access

Meandering walkway



Water Access

Floating pontoon



Water Access

Steps to launch kayaks



Waterplay

Interactive waterplay equipment



Waterplay

Interactive waterplay equipment



Waterplay

Interactive waterplay equipment



Waterplay

Interactive waterplay equipment



Fitness Stations

3G fitness equipment for all ages


Cycling
Suspension bridge spans the waterway



Water Sports

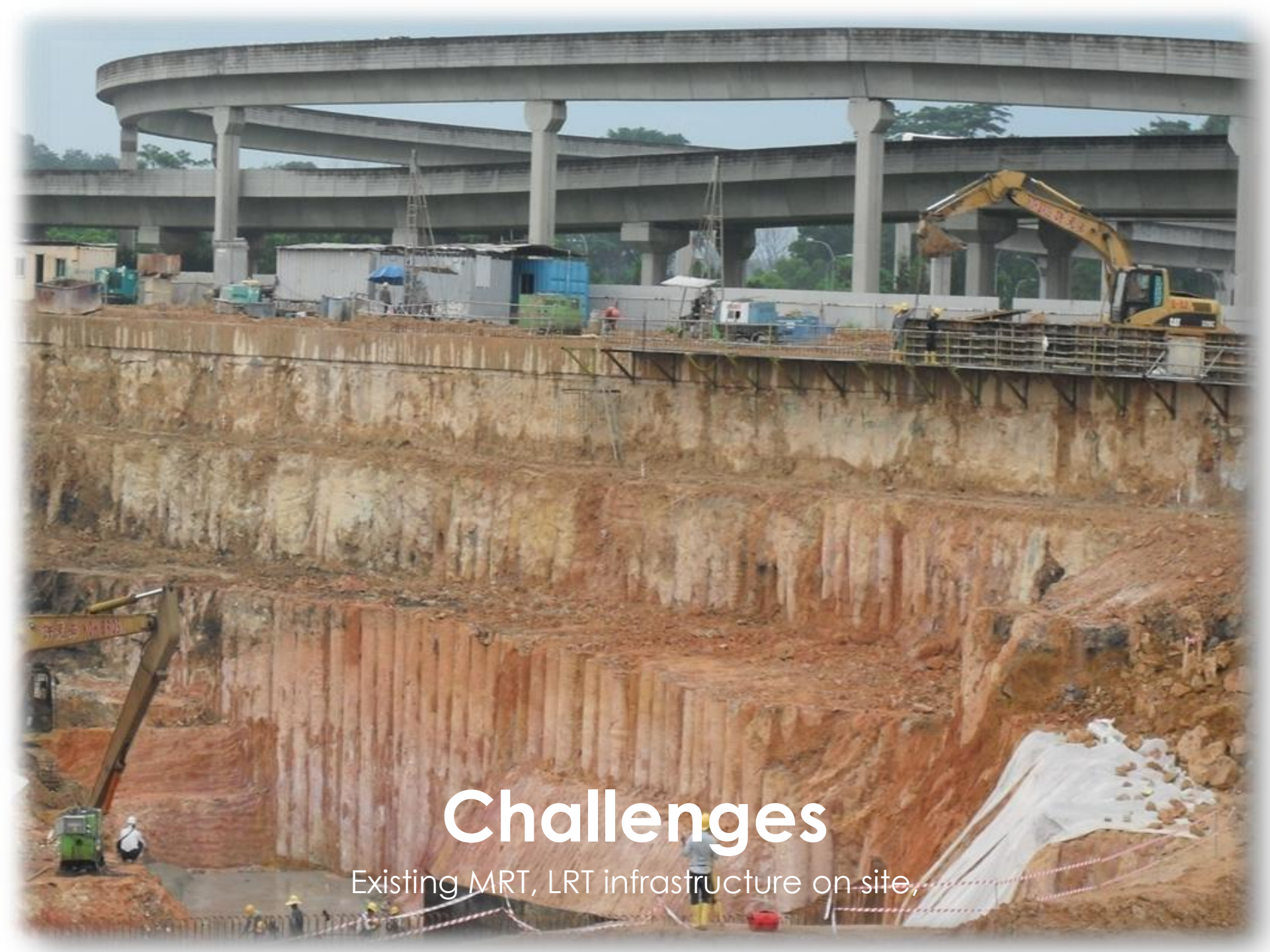
Kayak race



Urban

Dusk at ‘heartwave wall’


Punggol Waterway
Opening Ceremony



Challenges

Existing MRT, LRT infrastructure on site,



Challenges

Poor soil conditions - peaty clay



Challenges

Lack of existing vegetation and biodiversity



Challenge

Recreate a sustainable environment


Thank you

My Waterway @ Punggol



Surbana

www.surbana.com



Undulating

Iconic ‘kelong’ bridge spans the waterway following the ‘Old Punggol Road’



Urban

Vertical planting and creepers along the ‘heartwave’ wall



Undulating

Suspension bridge spans the waterway



Undulating

Adventure suspension bridge spans the waterway



Urban

Interplay of finishing materials creates interest



Urban

Dusk at the ‘Jewel Bridge’





Undulating

Easy accessibility

Ample energy efficient lighting