IFLA ASIA-PAC LA AWARDS 2023 - LANDSCAPE ARCHITECTURE CATEGORY

1.1 BUILT PROJECTS - 1.1A) CULTURAL AND URBAN LANDSCAPE

## "TWIN BRIDGES IN THE RAINY MIST"

- A CULTURAL HUB FOR CONTEMPORARY LIVING



### PROJECT TITLE

"Twin Bridges in the Rainy Mist" - a Cultural Hub for Contemporary Living

### **PROJECT STATEMENT**

Datansha Island, a sandbar in the Pearl River, lies in the west of Guangzhou, China. It is where one of the "Eight Signature Scenic Spots of Old Guangzhou" - "Twin Bridges in the Rainy Mist" located. With the rapid urbanisation over the past two decades, the former village on the island has transformed into a densely populated urban area. However, such drastic development has brought severe challenges. On top of that, public open spaces and green spaces have been encroached upon by illegal constructions, which has caused a series of traffic safety issues. Moreover, the unique historical memory of the twin bridges has gradually been forgotten.

The vision for the project is to create a modern transport hub rooted in Lingnan's local culture. Through the contemporary translation of the cultural image of the Twin Bridges, reorganising the spatial sequences and combing the traffic flow, the designers aimed to reshape the central landscape of the Datansha transport hub and create a cultural landscape that carries Guangzhou city's centuries-old memory. As a result, it has become a vibrant open space for residents' daily interactions and a spiritual space that holds the city's profound historical and cultural heritage.

### **PROJECT NARRATIVE**

#### 1. Project Location, Scope And Scale

Datansha Island is a sandbar in the Pearl River that lies in the west of Guangzhou, China. The project location is in the Datansha Island transport hub, including Tanwei Transport Central Axis Square, Twin Bridges Park and the railway shelterbelt green space. The total renovation area is 38,900m<sup>2</sup>.

#### 2. Site Status Base Survey

Datansha Island, where the project is located, is the location of "Twin Bridges in the Rainy Mist", one of the eight signature scenic spots in old Guangzhou. The project is located at the exit of Tanwei Metro Station, the intersection of two metro lines, which is the gateway transport hub centre of Datansha. It is also on the city's main road, where dozens of bus lines meet, with viaducts and railways passing through the sky. Therefore, the hub is constant with high traffic and people flow.

With the rapid transport construction and land development in Datansha Island over the past two decades, the construction waste left by urban construction caused the original Twin Bridges Park to be destroyed and split from the middle and the public green space encroached and over 14,000m<sup>2</sup> of illegal buildings had emerged from the abandoned grey space, which not only affected the safe operation of the railway but also created a dirty environment along the street and squeezed the street public space for residents. As a result, the cultural memory of the former scenic spot "Twin Bridges in the Rainy Mist" has been gradually forgotten due to the drastic changes in the city landscape.

#### 3. Design Vision and Strategies

The vision for the Datansha transport hub improvement project is to create a modern transport hub rooted in Lingnan's local culture. Datansha's crucial memory, "Twin Bridges in the Rainy Mist", embodies Guangzhou people's historical memories of the collision and fusion of the new modern railway transport in the traditional Lingnan water environment of the Pearl River Delta in the 1960s. Through the overall improvement of the Datansha transport hub, this project reconstructs a transport hub that meets current needs - working with local artists, taking the "Twin Bridges in the Misty Rain" large-scale urban installation art as the main scene to inject vitality into the long-forgotten Twin Bridges culture, continuing the city memory of Guangzhou.

The landscape architects have proposed three main strategies to transform the Datansha transport hub into a modern hub rooted in Lingnan's local culture.

#### Strategy 1 - Restoring Street Order & Activating Hub Vitality

The design is based on the comprehensive analysis of the daily average passenger flow and traffic flow of the Tanwei Metro Station. Analysing the site's issues, designers concluded that the public space is incoherent due to the large number of illegal buildings, which encroached on pedestrian space and affected traffic safety. In addition, they caused traffic chaos in dense traffic hubs.

In response to the above problems, 14,000m<sup>2</sup> of public space was released by demolishing illegal buildings. The designers reorganised the spatial sequence to enhance spatial continuity and increased the transit and waiting area appropriately. It increased the accessibility of the public area of the Datansha transport hub. It reconnected a series of spaces such as the Tanwei subway exit space, the central axis distribution square, and the Twin Bridges Park. Distribution space provided people with places to wait and stay while alleviating urban congestion.

Furthermore, the designers also reorganized the traffic streamline to realize the diversion of pedestrians and vehicles. Redesign the traffic streamline and increase the sidewalks for pedestrians to improve the efficiency and safety of traffic.

Meanwhile, the designers aimed to improve the quality of the environment and enhance the overall amenity of the environment. To improve the comfort of the space by improving the space environment along the street, the designers considered removing construction waste, adding benches and updating public facilities such as guardrails.

#### Strategy 2 - Recover Green Space & Construct An Eco-Friendly Transport Hub

Twin Bridges Park is currently the only urban park on Datansha Island. The excavation project of the Guangzhou Metro Line 5 and 6 in the early 2000s resulted in a break from the middle of the Twin Bridges Park into two parts, the east and the west part and the green space in the middle has not been recovered ever since. The hard ground has been used as a landfill to pile up construction waste for a long time. At the same time, since Twin Bridges Park has not changed its enclosed park management method since the 1980s, the park is in a closed state, with poor accessibility and a low utilisation rate.

To deal with the problem of unrecovered green space, the designers restored the function of green space in the centre of Twin Bridges Park. Since the central axis square is located on the subway roof, it is unsuitable for planting trees. The designers increased the green area of the main axis square by raising the terrain and increasing the covering soil according to local conditions, and selected plant species with shallow root systems to increase the green viewing rate of the central axis square and improve the space environment.

To solve the problem of low park usage, the designers opened the park boundaries to improve the accessibility of the park. By dismantling the park boundary fence and expanding the park entrance, the park is connected with the community, allowing residents to enter the park on foot, which is convenient for residents to enter and participate in activities. After removing the fence, the number of entrances to the park has increased. In addition, it is directly connected to the city road, which is convenient for people to enter Twin Bridges Park from different angles, increasing the accessibility and attractiveness of the park.

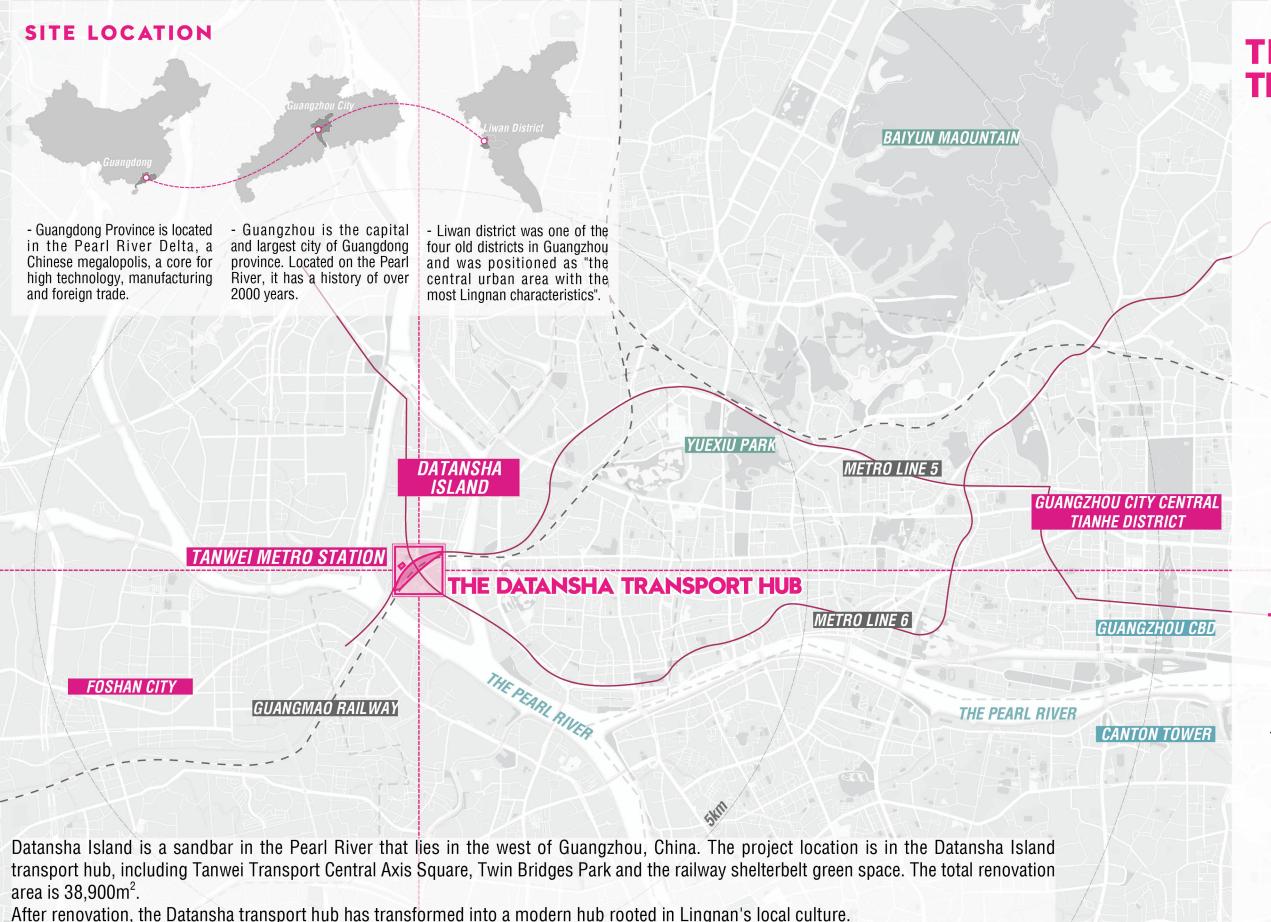
Designers also use modern sponge methods to improve stormwater management. By constructing rainwater collection facilities to collect and filter rainwater, the water recycled could be used for irrigation and the intelligent mist spray of the "Twin Bridges in the Misty Rain" installation art, reducing the impact of rainwater on the park and surrounding areas. At the same time, such facilities help improve the park's environmental quality and ecological value.

#### Strategy 3 - Revisiting The Memory Of Guangzhou City & Recreating Life Scenes

Datansha's crucial memory, "Twin Bridges in the Rainy Mist", embodies Guangzhou people's historical memories of the collision and fusion of the new modern railway transport built in the traditional Lingnan water environment of the Pearl River Delta in the 1960s. To recreate the signature scenic view of the "Twin Bridges in the Rainy Mist", the landscape architects worked with installation artists and calligraphers to complete a large-scale urban landscape art installation, which continued the memory of the city, reshaped the style of the Datansha portal. Datansha Island takes Singapore as a benchmark and is the Guangdong-Singapore cooperation council's frontier urban development area. The design used modern techniques to abstractly design the large-scale urban installation art "Twin Bridges in the Rainy Mist", which incorporates the intention of the twin bridges and the overlapping of orchid leaves. To enhance the image of the transport hub, famous Lingnan calligraphers and painters were invited to inscribe the words "Twin Bridges in the Rainy Mist", which now became a cultural component consumating the idea of twin bridges.

The reappearance of "Twin Bridges in the Rainy Mist" reminds Guangzhou citizens that the first railway bridge in the 1960s - the Pearl River Bridge was erected on the Lingnan Pearl River Delta water network, awakening the collective urban memory of the Guangzhou people. Furthermore, it reminds people of the construction and development of Guangzhou and connects the centuries-old history through the new spatial image of the twin bridges in the misty rain.

## The Datansha Transport Hub - Creating a Cultural Hub For Contemporary Living



### THE DATANSHA TRANSPORT HUB

EY INDEX

 $38,900M^2$ 

TOTAL RENOVATION AREA

 $14,000M^2$ 

**DEMOLITION AREA** 

26,880M<sup>2</sup>

GREEN SPACE INCREASED

 $12,020M^2$ 

PUBLIC OPEN SPACE AREA

### TARGETED USERS

70,000 RESIDENT POPULATION OF

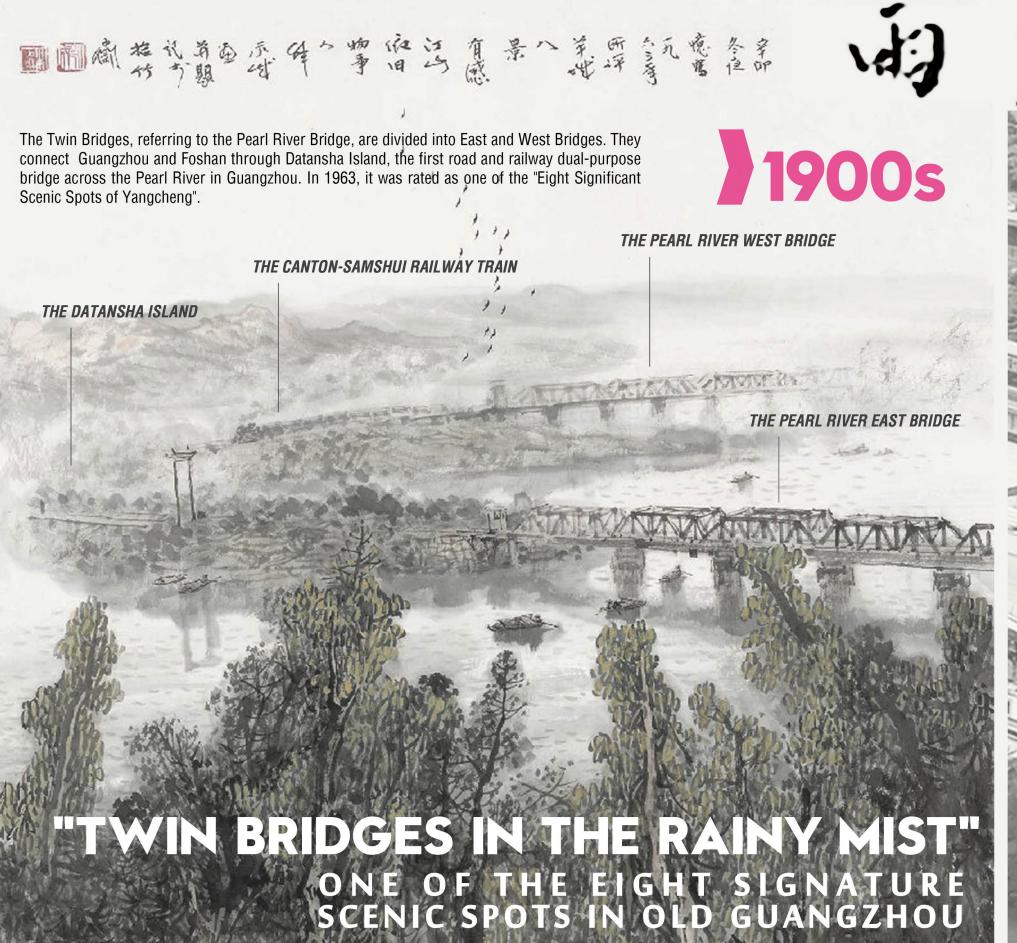
THE DATANSHA ISLAND

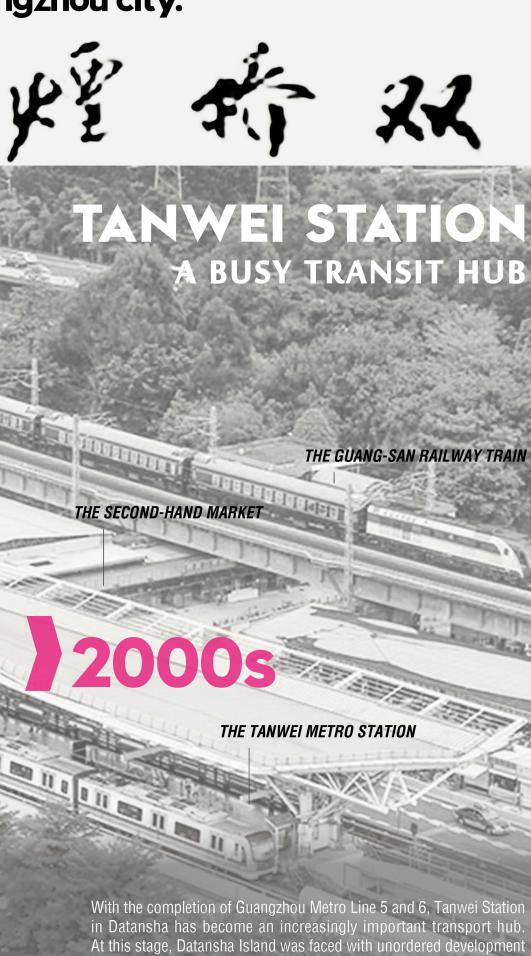
120,000

AVERAGE DAILY PASSENGER FLOW OF TANWEI STATION

HAIZHU WETLAND

Datansha Island, where the renowned signature scenic spot in history - "Twin Bridges in the Rainy Mist" locates, carries the precious memory of the old guangzhou city.





and the space under the bridge was occupied by the second-hand

market of illegal construction.

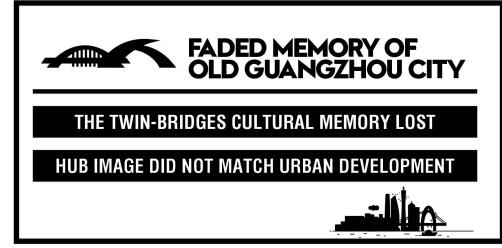
## Challenges - Datansha Island has undergone unordered development



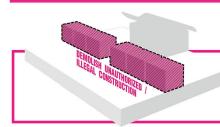
### PROBLEMS BROUGHT BY URBAN DISORDERLY SPRAWL







### **STRATEGIES**



DEMOLISH ILLEGAL BUILDINGS TO RELEASE PUBLIC SPACE



RESTORE PUBLIC OPEN GREEN SPACE



REORGANISE SPATIAL SEQUENCE AND SEPARATE PEDESTRIANS AND VEHICLES



OPEN BORDERS OF THE PARK AND INCREASE ACCESSIBILITY



IMPROVE THE ENVIRONMENT QUALITY TO ENHANCE SPATIAL LIVABILITY

RESTORING STREET ORDER

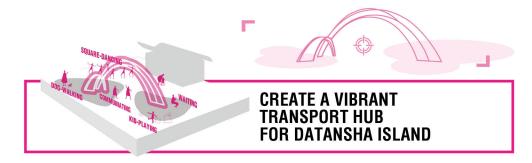
& ACTIVATING HUB VITALITY



FORM A RESILIENT RAIN-WATER NETWORK

RECOVER GREEN SPACE & CONSTRUCT AN ECO-FRIENDLY TRANSPORT HUB





REVISITING MEMORIES OF GUANGZHOU CITY & RECREATING LIFE SCENES

A MODERN TRANSPORT HUB ROOTED IN LINGNAN'S LOCAL CULTURE

## **MASTER PLAN**

- "Twin Bridges In The Misty Rain" Art Installation
   Tanwei Transport Central Axis Square
   Twin Bridges Park West
   Twin Bridges Park East
   Demolition And Green Space Restored Railway Shelterbelt
   Demolition And Green Space Restored
- 7. Tanwei MRT Station Exit Space
- 8. Native Old Banyan Tree

- Open West Park Entrance
   Open East Park Entrance
- 11. Railway Management And Maintenance Office
  12. Underground Facilities Belt
  13. Original Entrance Of East Garden
  14. Viaduct Bottom Grey Space
  15. New West Park Entrance

- 16. New East Park Entrance



## **STRATEGY 1**

# RESTORING STREET ORDER & ACTIVATING HUB VITALITY







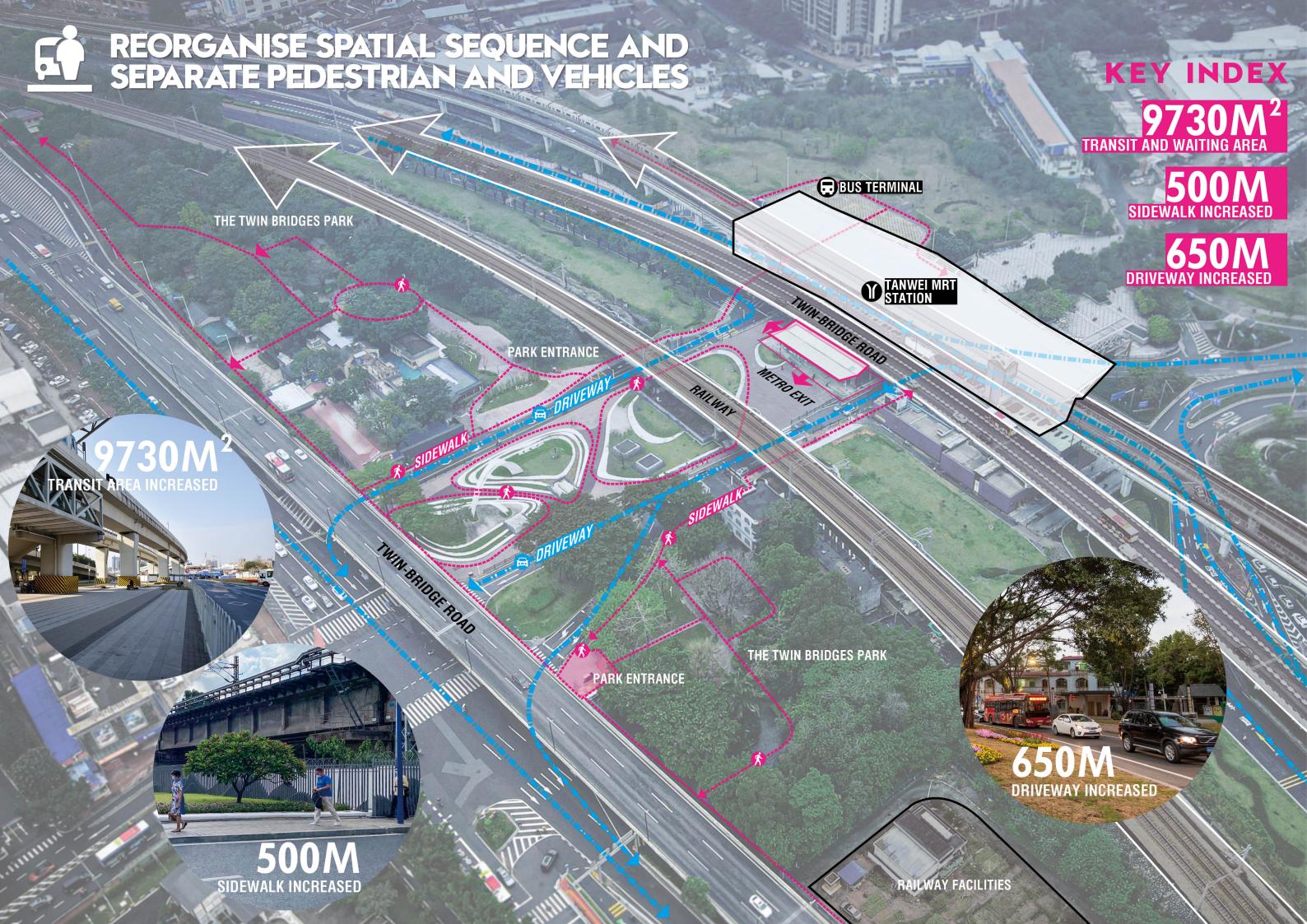




Remove the illegal buildings under the bridge and release the grey space.



Demolition of illegal buildings on the top of the Tanwei metro station to restore public urban space functions.





## STRATEGY 2

## RECOVER GREEN SPACE & CONSTRUCT AN ECO-FRIENDLY TRANSPORT HUB

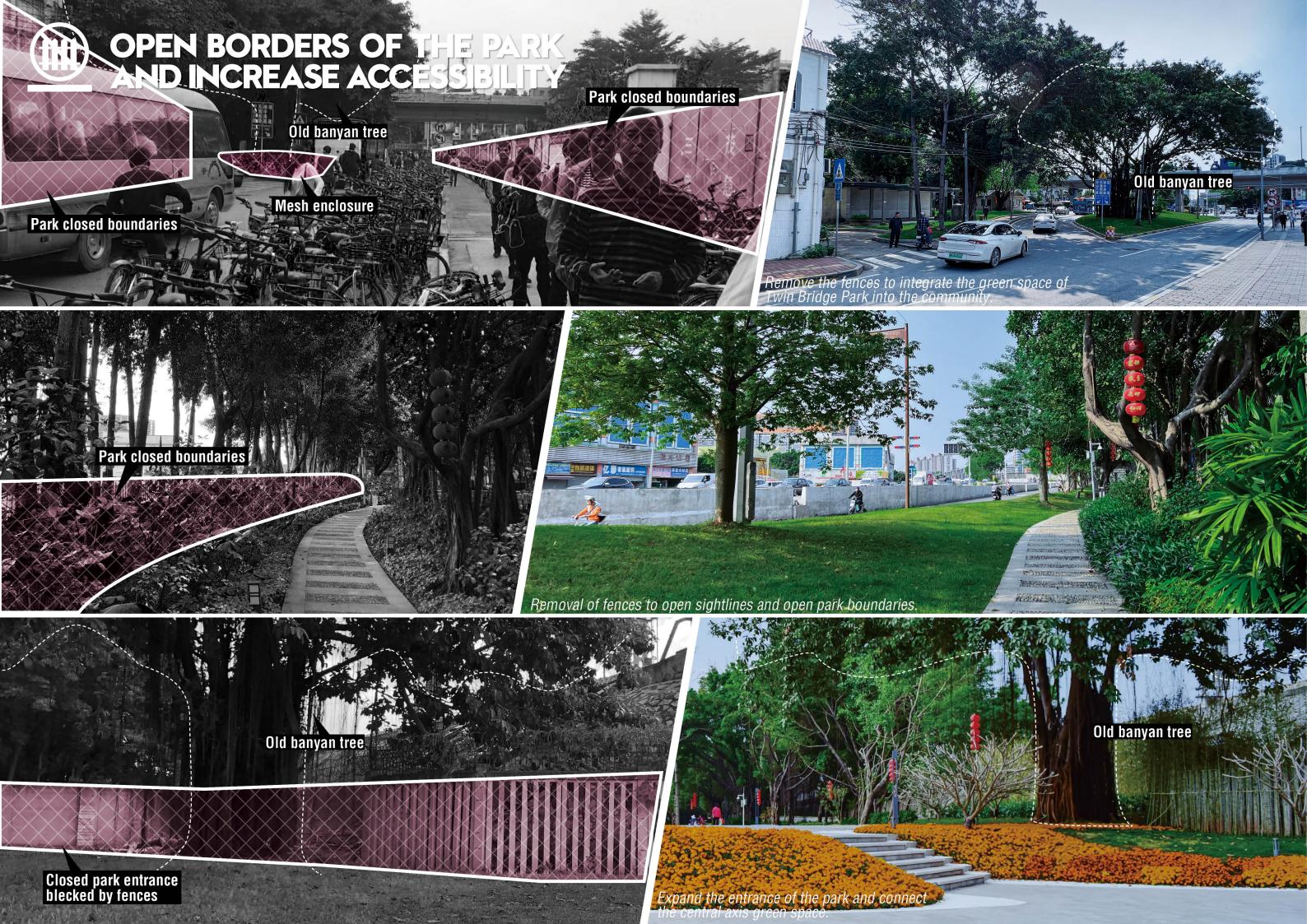














## USE INTELLIGENT RAINWATER HARVESTING SYSTEM TO IMPROVE RAINWATER RECYCLING RATE

The height difference created by the grass steps is used to build a built-in reservoir to collect rainwater in the site. After purification, it becomes water for mist spraying of the cultural installation - "Twin Bridge in the Misty Rain". The recycled rainwater is also reused for irrigation.



FLOOD DETENTION



RAIN WATER PERMEABILITY



STORM WATER RETENTION



STORM WATER RECYCLING



# REVISITING MEMORIES OF GUANGZHOU CITY & RECREATING LIFE SCENES









## INHERIT THE CULTURAL LEGACY OF GUANGZHOU CITY

Datansha's crucial memory, "Twin Bridges in the Rainy Mist", embodies Guangzhou people's historical memories of the collision and fusion of the new modern railway transport built in the traditional Lingnan water environment of the Pearl River Delta in the 1960s.

To recreate the signature scenic view of the "Twin Bridges in the Rainy Mist", the landscape architects worked with installation artists and calligraphers to complete a large-scale urban landscape art installation.



DATANSHA

ISLAND

# 雨烟桥:

"TWIN BRIDGES IN THE RAINY MIST"

Datansha Island takes Singapore as a benchmark and is the Guangdong-Singapore cooperation council's frontier urban development area.

Vanda 'Miss Joaquim'
SINGAPORE









## CREATE A VIBRANT TRANSPORT HUB FOR DATANSHA ISLAND

The reappearance of "Twin Bridges in the Rainy Mist" reminds Guangzhou citizens that the first railway bridge in the 1960s - the Pearl River Bridge was erected on the Lingnan Pearl River Delta water network, awakening the collective urban memory of the Guangzhou people. Furthermore, it reminds people of the construction and development of Guangzhou and connects the centuries-old history through the new spatial image of the twin bridges in the misty rain.



## "TWIN BRIDGES IN THE RAINY MIST" - A CULTURAL HUB FOR CONTEMPORARY LIVING

Through the overall improvement of the Datansha transport hub, this project reconstructs a transport hub that meets current needs. it has become a vibrant open space for residents' daily interactions and a spiritual space that holds the city's profound historical and cultural heritage.

