

HKIE EVD Annual Forum 2024

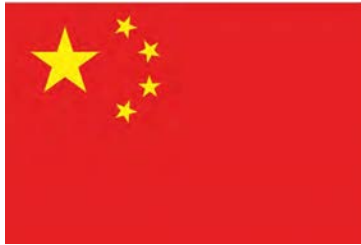
18 April 2024

Northern Metropolis – The New Green Pivot



Michael FONG
Director of Civil Engineering and Development

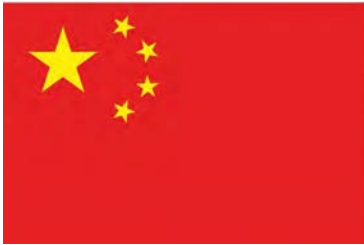
National Strategy and the Greater Bay Area



the National 14th
Five-Year Plan



National Strategy and the Greater Bay Area



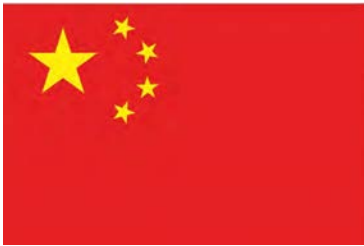
the National 14th Five-Year Plan



The Greater Bay Area



National Strategy and the Greater Bay Area



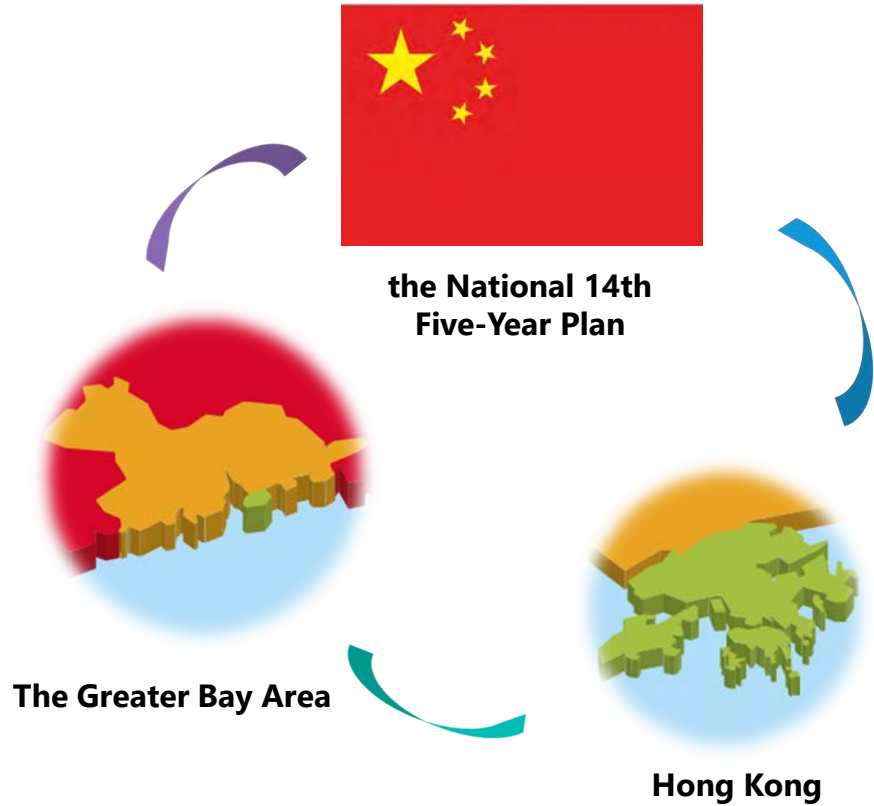
the National 14th Five-Year Plan



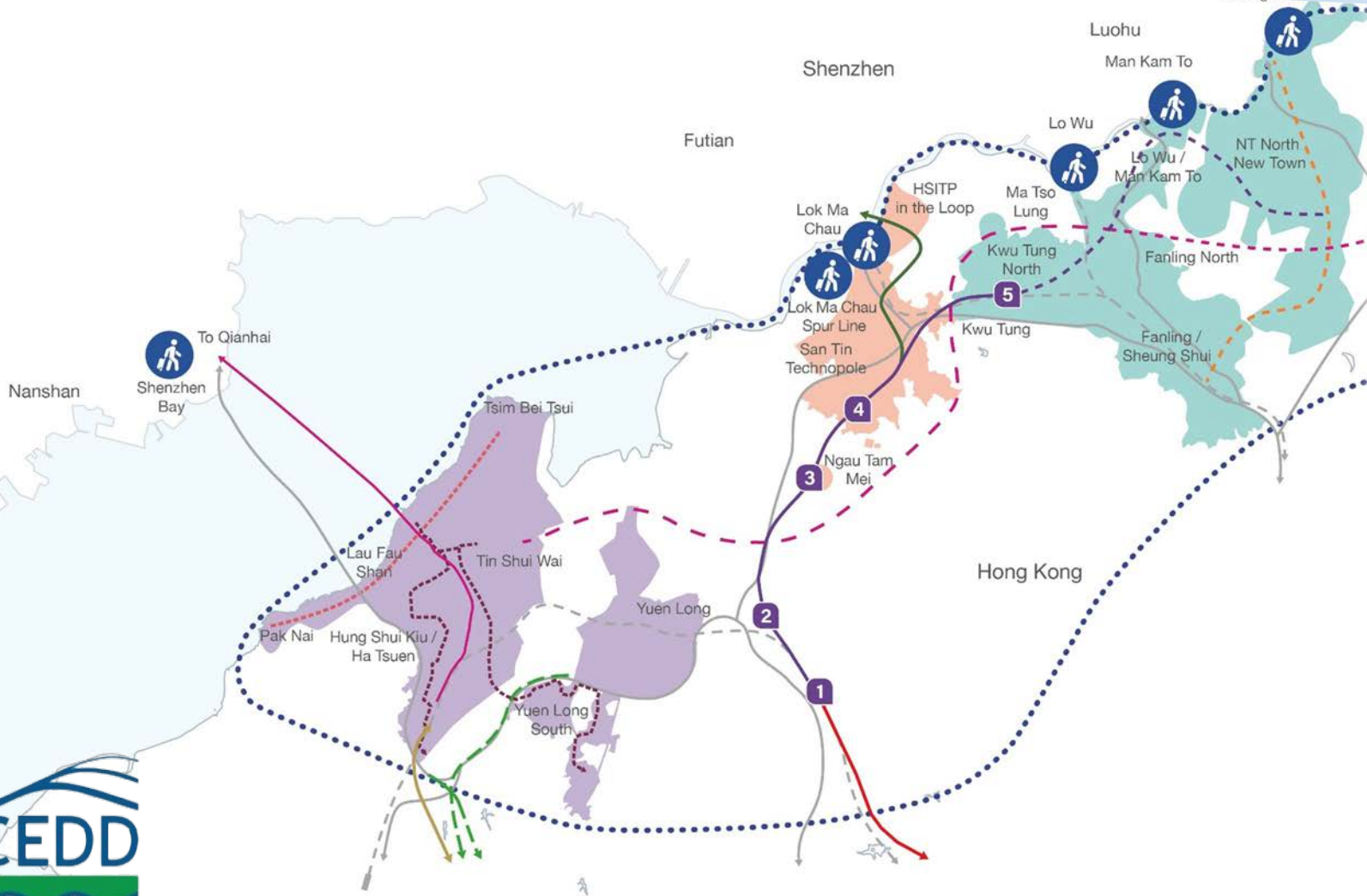
The Greater Bay Area



National Strategy and the Greater Bay Area



Northern Metropolis Development



Population

About **2.5** million

Employment Opportunities

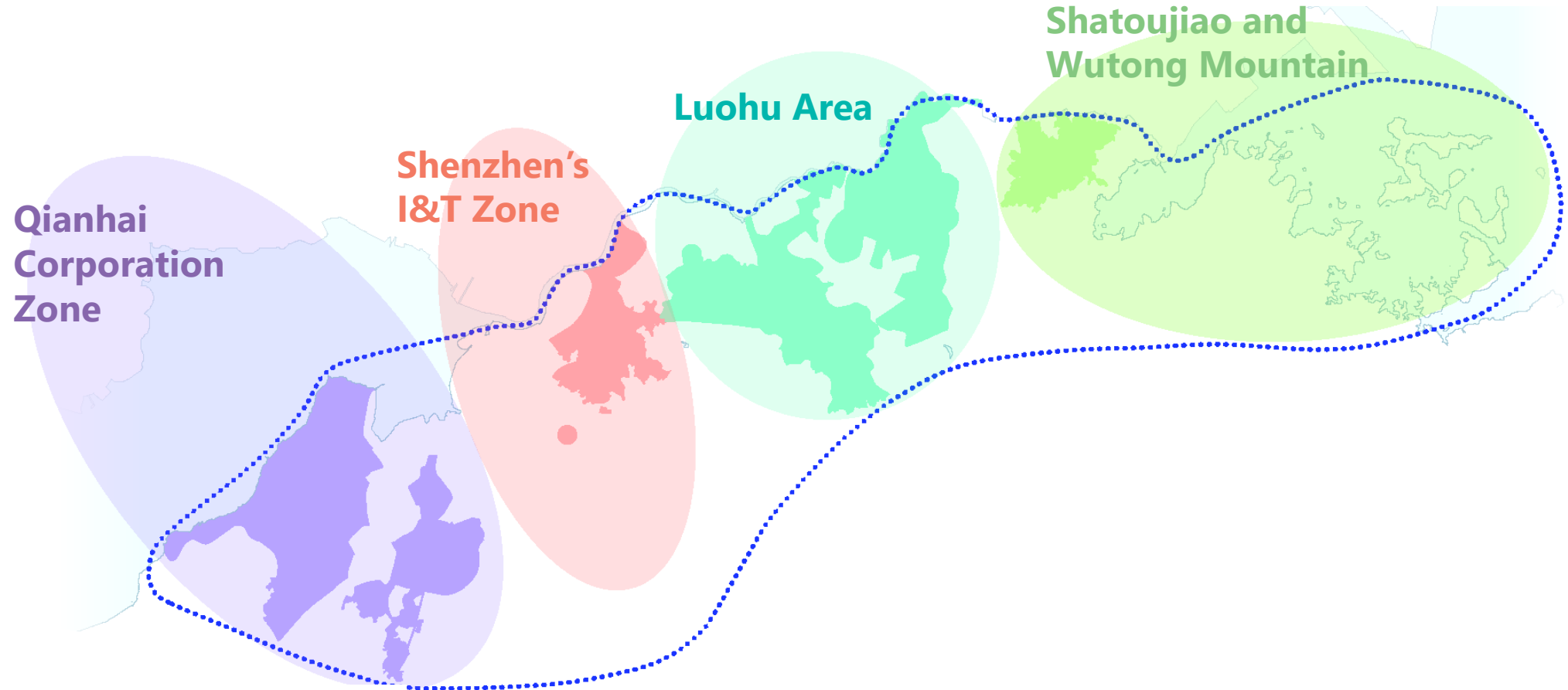
000,000

Residential Flats

000,000

Northern Metropolis Development

Four Major Zones



High-end Professional Services and Logistics Hub



Innovation and Technology Zone



Boundary Commerce and Industry Zone



Blue and Green Recreation, Tourism and Conservation Circle

Vision and Targets

A “new international I&T city”, integrating quality life, industry development, culture and leisure, and promoting a better home-job balance and green living

Providing land and housing

Promoting integration of Greater Bay Area

Ecological conservation, urban-rural integration

Infrastructure-led, railways as backbone

Developing “NM University Town”

Industry-driven and better home-job balance

Developing diversified arts, culture, sports and youth facilities

Establishing presence of government departments to drive development

Carbon-Neutral Community



Blueprints & Road Maps towards Carbon-Neutrality



TD's Traffic and Transport Strategy Study

Climate Ready

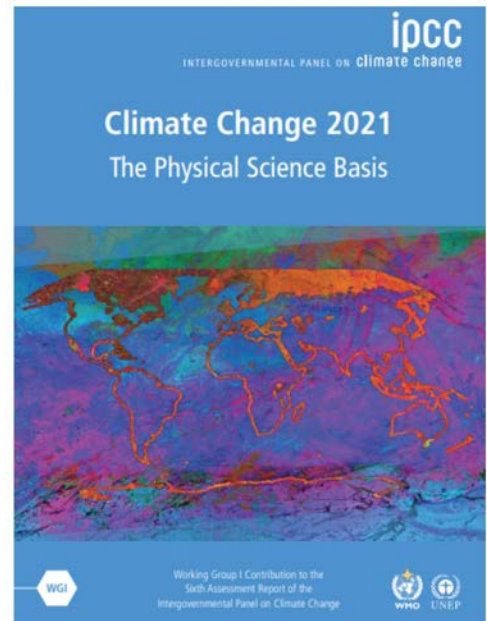
Drainage Design and Site Formation

STORMWATER DRAINAGE MANUAL

Planning, Design and Management

DRAINAGE SERVICES DEPARTMENT
Government of the Hong Kong
Special Administrative Region

Special Administrative Region
Government of the Hong Kong
DRAINAGE SERVICES DEPARTMENT

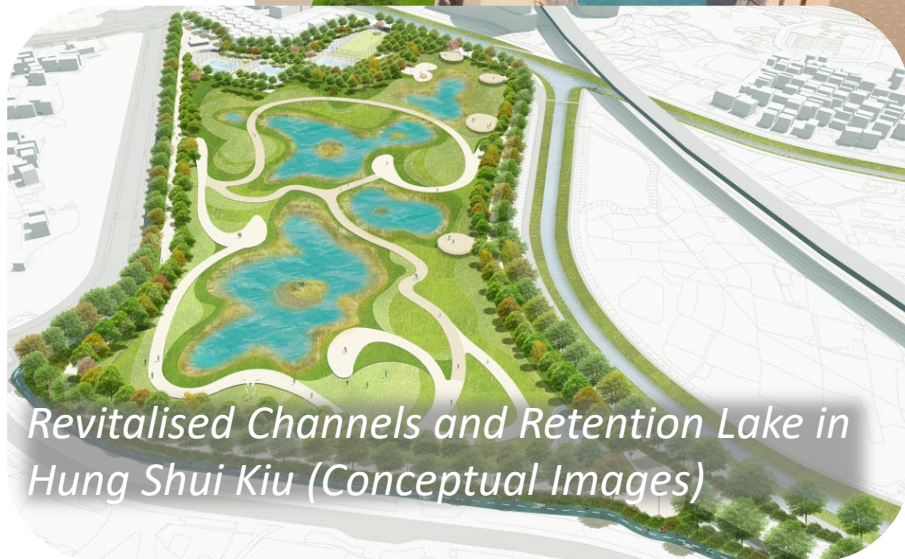


Climate Ready

Blue-Green Drainage Infrastructure



Revitalised Tin Shui Wai Channel adjacent to Lau Fau Shan (Conceptual Image)



Revitalised Channels and Retention Lake in Hung Shui Kiu (Conceptual Images)



Revitalised Drainage Channels in San Tin Technopole (Conceptual Image)

Climate Ready

Green Community



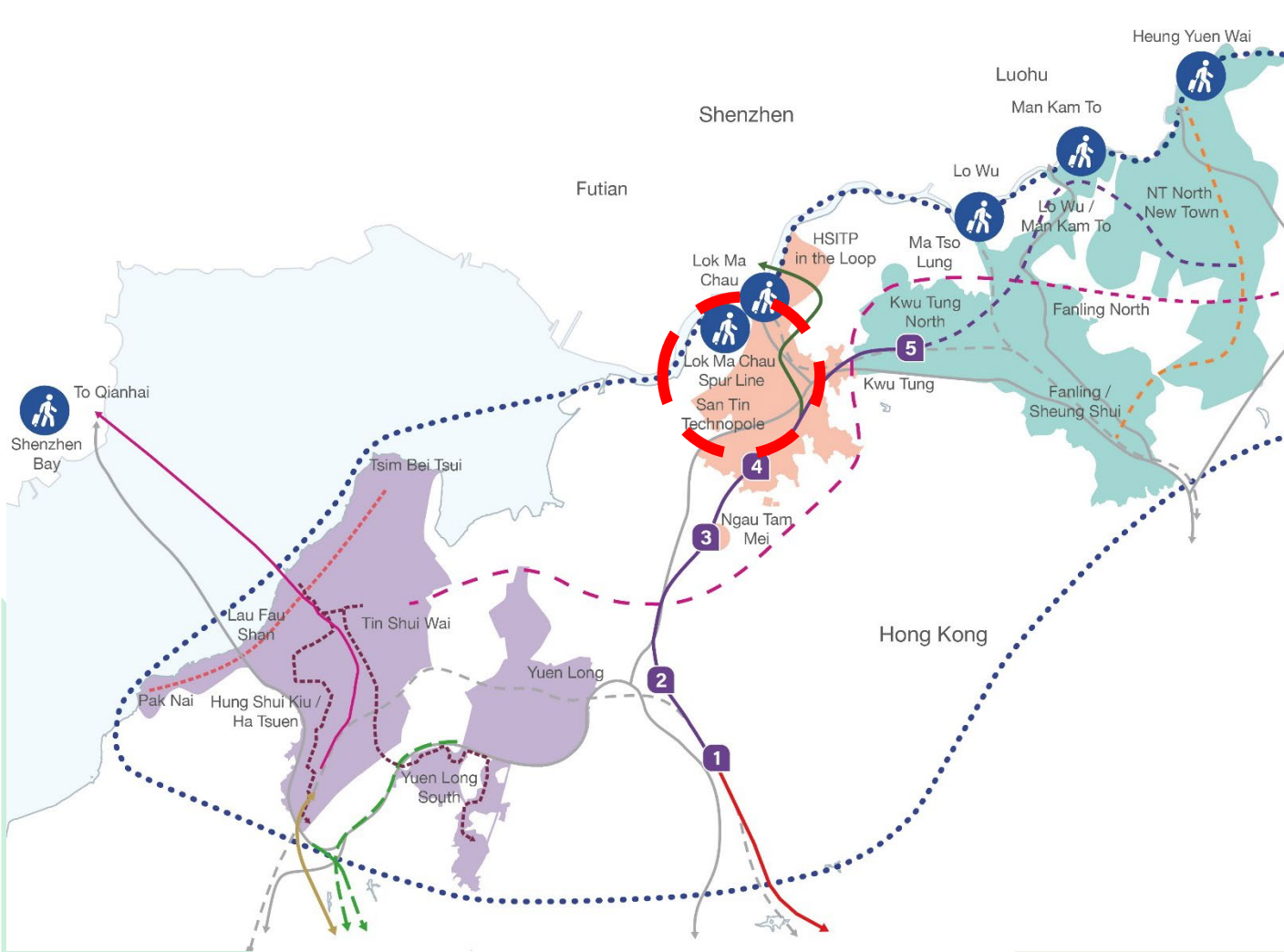
Sustainable Development

Sustainable Planning and Urban Design



Sustainable Development

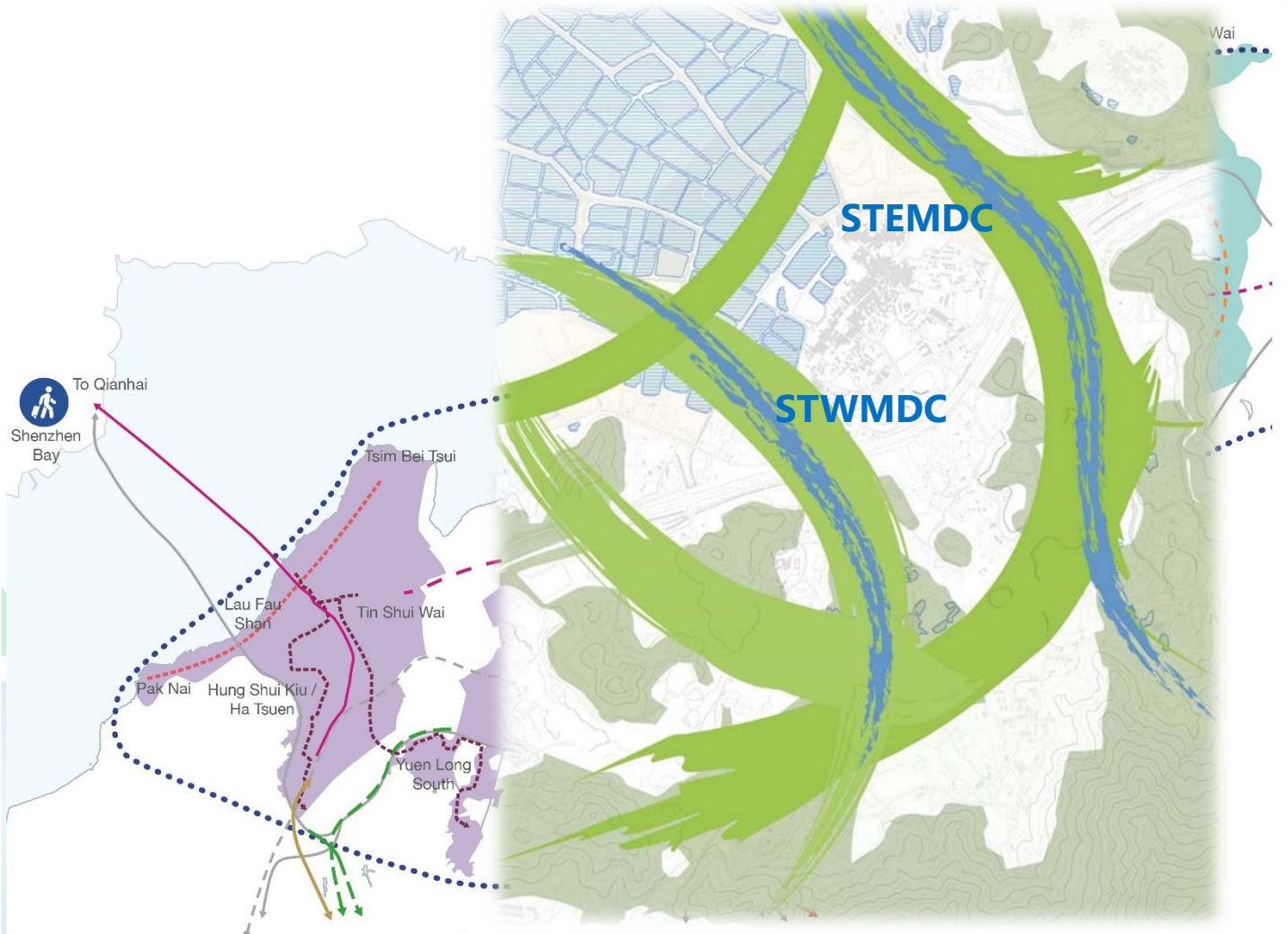
Blue-Green Network – San Tin Technopole



Source: google map

Sustainable Development

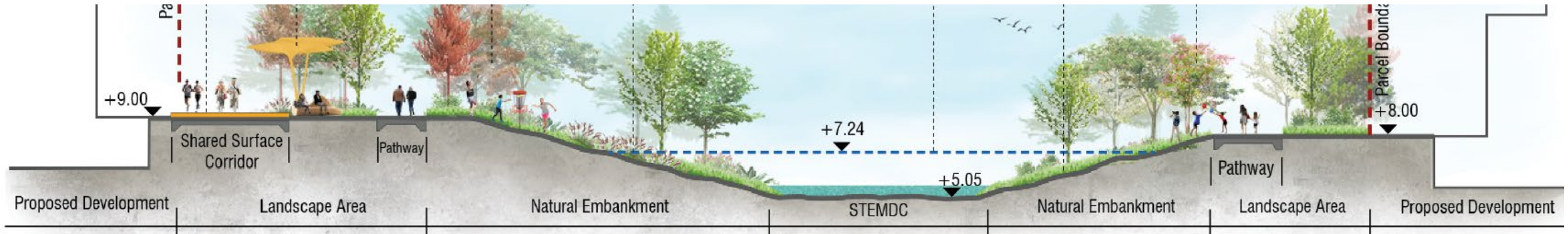
Blue-Green Network – San Tin Technopole



Source: google map

Sustainable Development

Blue-Green Network – San Tin Technopole



Sustainable Development

Blue-Green Network – San Tin Technopole



Sustainable Development

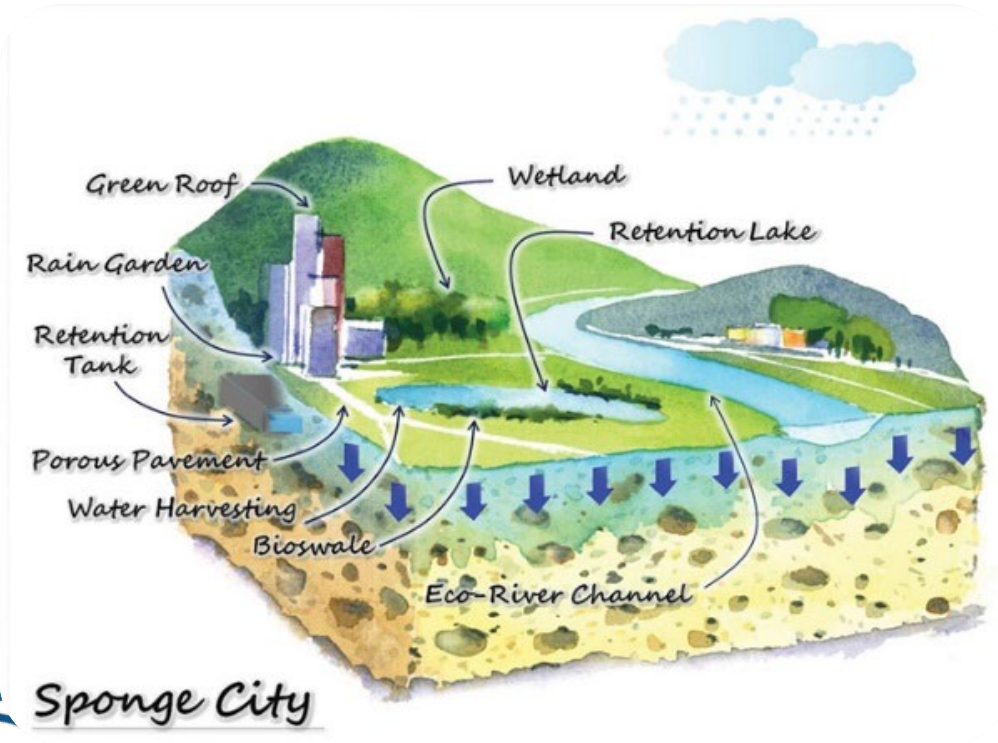
Integrated SGR Infrastructure System



Sustainable Development

Integrated SGR Infrastructure System

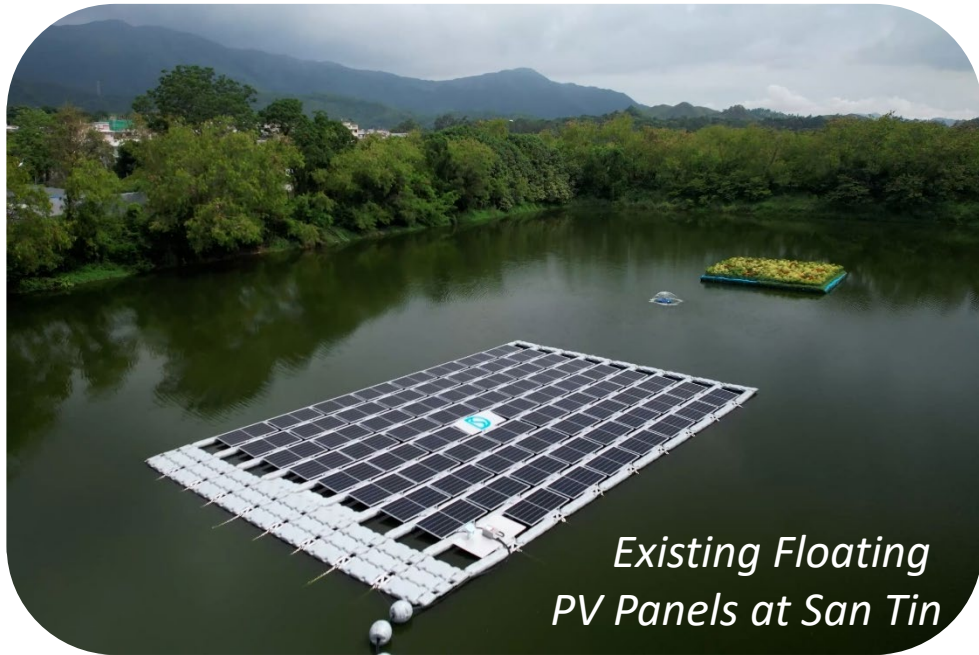
- 1 Adopt "Sponge City" design (including sustainable urban drainage system)



Sustainable Development

Integrated SGR Infrastructure System

2 Use renewable energy

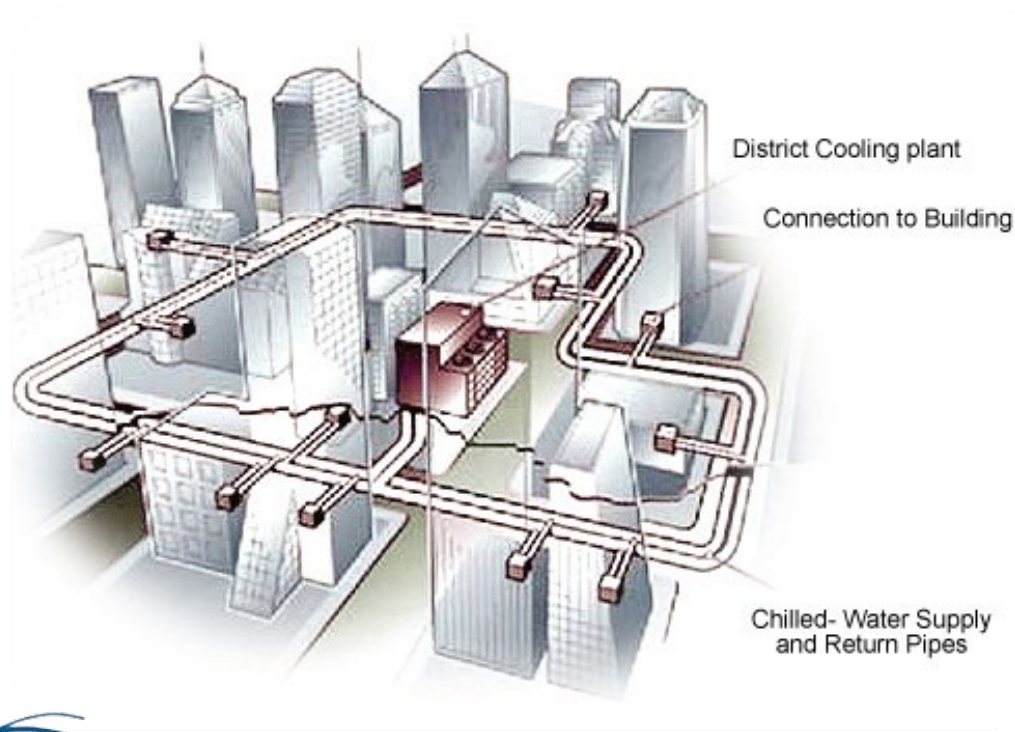


Sustainable Development

Integrated SGR Infrastructure System

3

Adopt district cooling system



Sustainable Development

Integrated SGR Infrastructure System

4 Sewage treatment works & water reclamation plants



Sustainable Development

Integrated SGR Infrastructure System

- 5 Construct food waste/ sewage sludge anaerobic co-digestion facilities



Sustainable Development

Integrated SGR Infrastructure System

6 Construct common utility tunnel



Sustainable Development

Integrated SGR Infrastructure System



Sustainable Development

Integrated SGR Infrastructure System

- 7 Plan comprehensive pedestrian and cycle network



Sustainable Development

Integrated SGR Infrastructure System

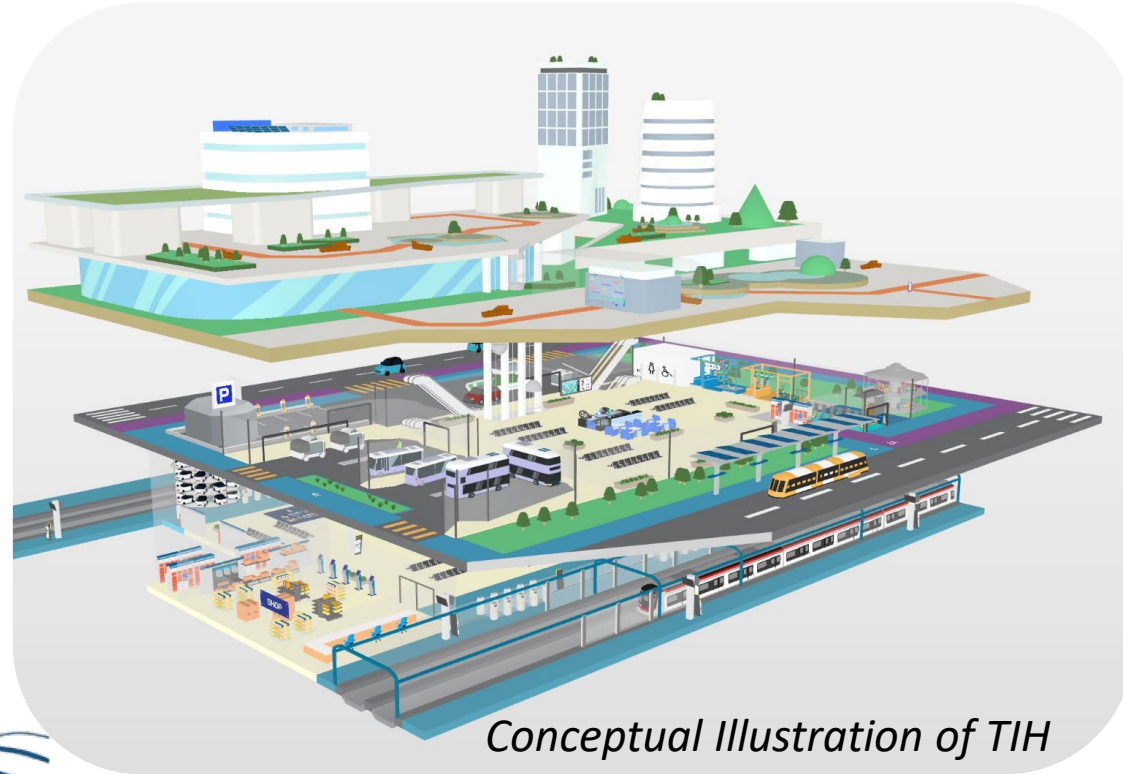
- 8 Provide supporting facilities for electric and other new energy vehicles



Sustainable Development

Integrated SGR Infrastructure System

9 New Generation Transport Interchange Hubs



Sustainable Development

Proactive Conservation



Lau Fau Shan (Conceptual Image)



Mai Po

Sustainable Development

Urban-Rural-Nature Integration – San Tin Technopole



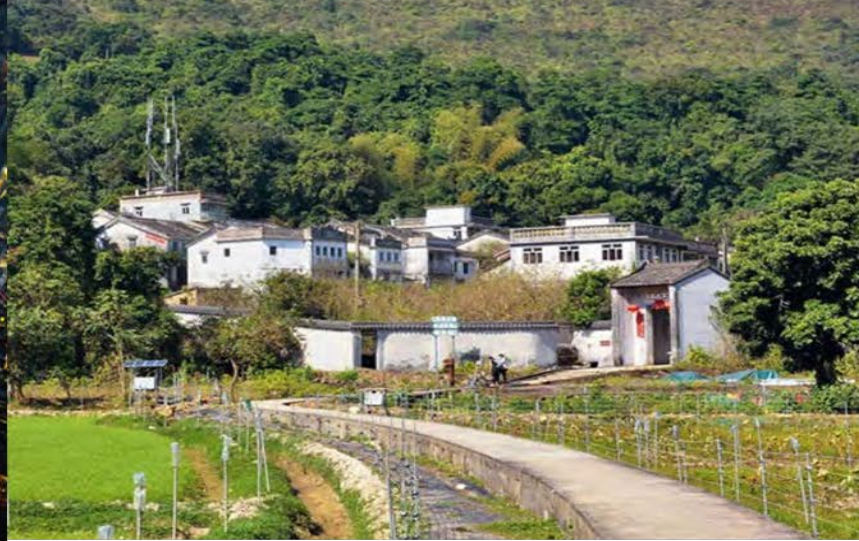
A complete I&T ecosystem

A new era of ecological civilization

Greatest intensity of cross-boundary interactions

Sustainable Development

Urban-Rural-Nature Integration – San Tin Technopole



Sustainable Development

Urban-Rural-Nature Integration – San Tin Technopole

Eco-Interface



Proposed Sam Po
Shue Wetland
Conservation Park

+2.00

+3.50

+6.50

Eco-Interface

Proposed
San Tin
Technopole

Robust Connectivity



Sustainable Development

Urban-Rural-Nature Integration – Lau Fau Shan



Sustainable Development

Urban-Rural-Nature Integration – Lau Fau Shan

Design Harmony & Responsive to Site Context



Northern Metropolis - A carbon-neutral and future-ready community for our next generation



Thank You

