

#### International Symposium On Water Sustainability





Integrate Stormwater Management with River Revitalisation Concept in Urban Setting

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除污•防洪•共建三十載 復修•活化•開拓新未來

30 Years of Groundwork Embracing a New Age





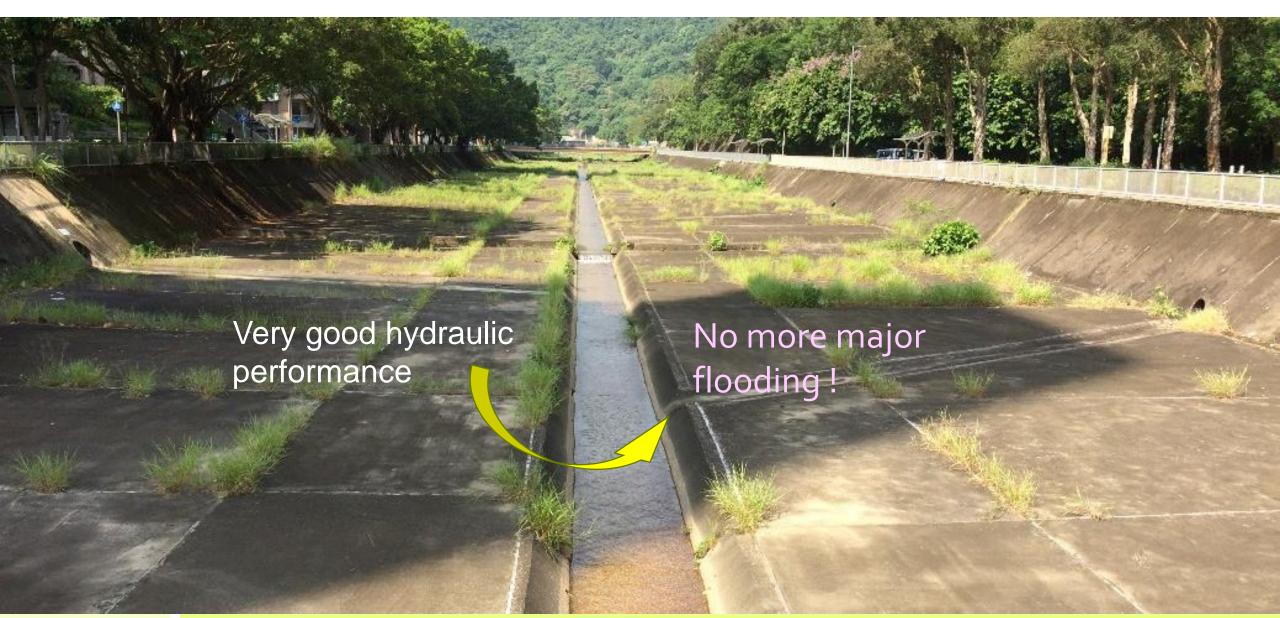
## Flooding in Hong Kong



Sheung Shui 1993



## Channelisation





#### **Concrete Channel - Rethink**





#### What have we done?



Tung Chung River

Tsui Ping River

Kai Tak River Revitalisation Study

**Shenzhen River** 

Eco-hydraulic Study – site trials

Practice Note – Environmental and **Ecological Considerations of River** Design

Lam Tsuen River

**Eco-hydraulic Study** 

Ho Chung River

Yuen Long Bypass Floodway

Practice Note – Environmental Considerations of River Design

Ng Tung River

**Concrete Channels** 



# Yuen Long Bypass Floodway









# **Upper Lam Tsuen Channel**









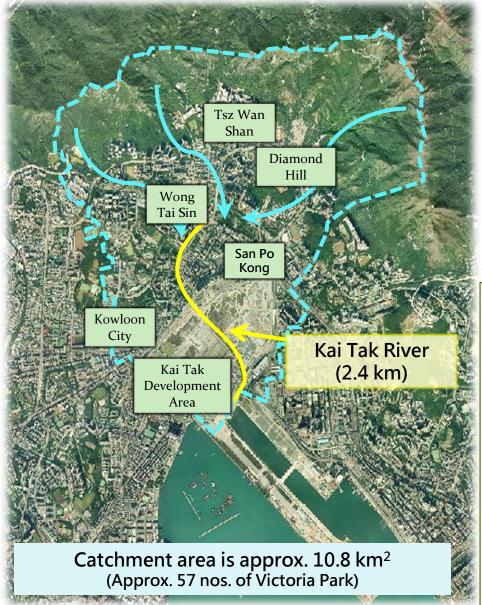
# Shenzhen River







#### **Project Background**





#### **Insufficient Drainage Capacity**







#### Public Aspiration for Green River Corridor





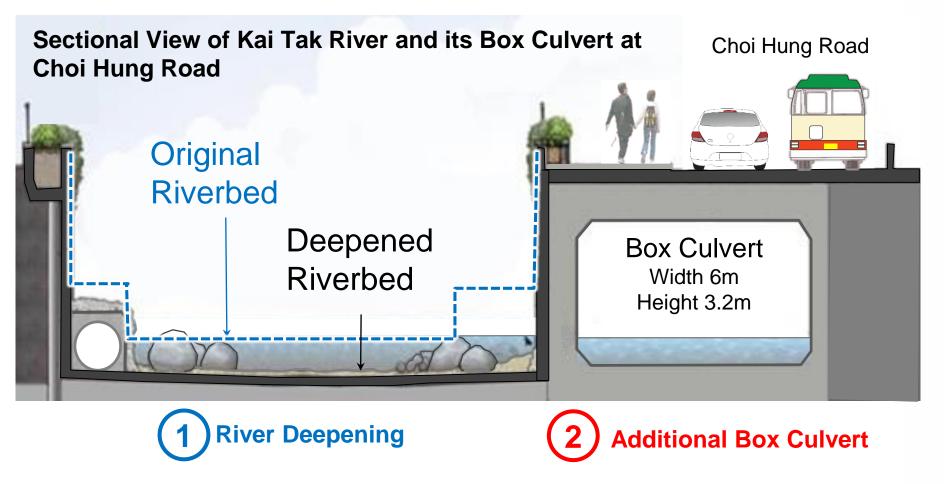
**Public Engagement Programme for** "Building our Kai Tak River" in 2010 and 2011

#### 3 design principles:

- Accord high priority to increase drainage capacity
- Minimise river decking
- Revitalise as green river corridor



#### **Two Flood Prevention Strategies**



Lower Wong Tai Sin Est. Kai Tak Garden Choi Hung Road Playground Construction of about 400m long box culvert Reconstruction and rehabilitation of about 1.1km long Kai Tak River San Po Kong Tung Wi

Drainage capacity has been increased for more than 100%



#### **Four Revitalisation Elements**

#### Landscape Works











# 3 Submerged Planters





#### **Ecological Features**







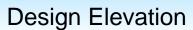


# **Landscape Works**











Deflector

## **Solution Ecological Features**

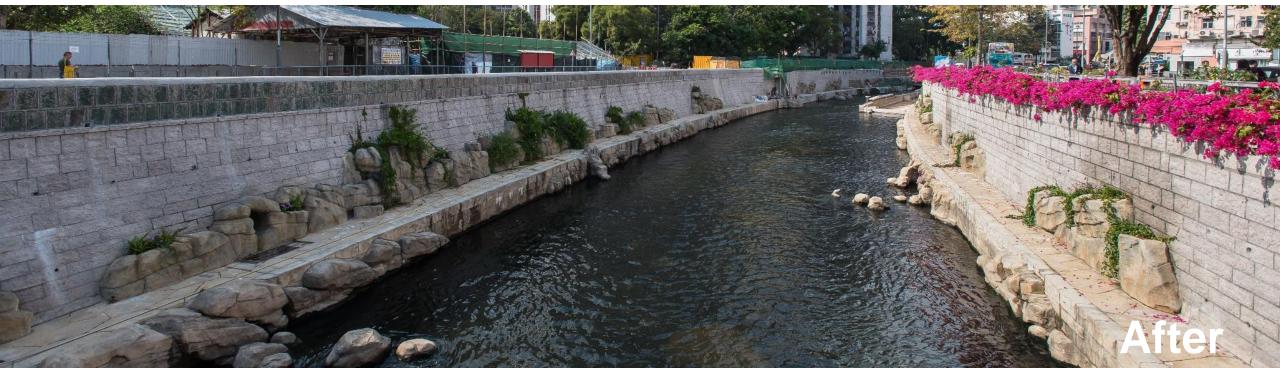




#### **Birds and Fishes Found**









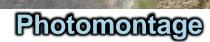


# Tsui Ping River



Existing Condition





# Tai Wai Nullah



Existing Condition

**Photomontage** 

# **Solution** Fo Tan Nullah





Existing Condition

**Photomontage** 



# Tung Chung River Park

#### **Photomontage**





# Revitalisation of Rivers for a Livable City









Early-Bird
Registration Deadline
31 July 2019

# 8th IWA-ASPIRE Conference and Exhibition

# **Smart Solutions for Water Resilience**

31 OCTOBER - 2 NOVEMBER 2019 HONG KONG

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