# **OPENING THE BESIEGED CITY** Exploring an inclusive development strategy for Tin Shui Wai in Hong Kong



Photograph of Tin Shui Wai in Hong Kong (by HKAVMODE)



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P5 / Jing Feng / 4122623 / Complex Cities Studio / Department of Urbanism / TU Delft /

28/06/2012

## 

天水園的日與夜 The way we are

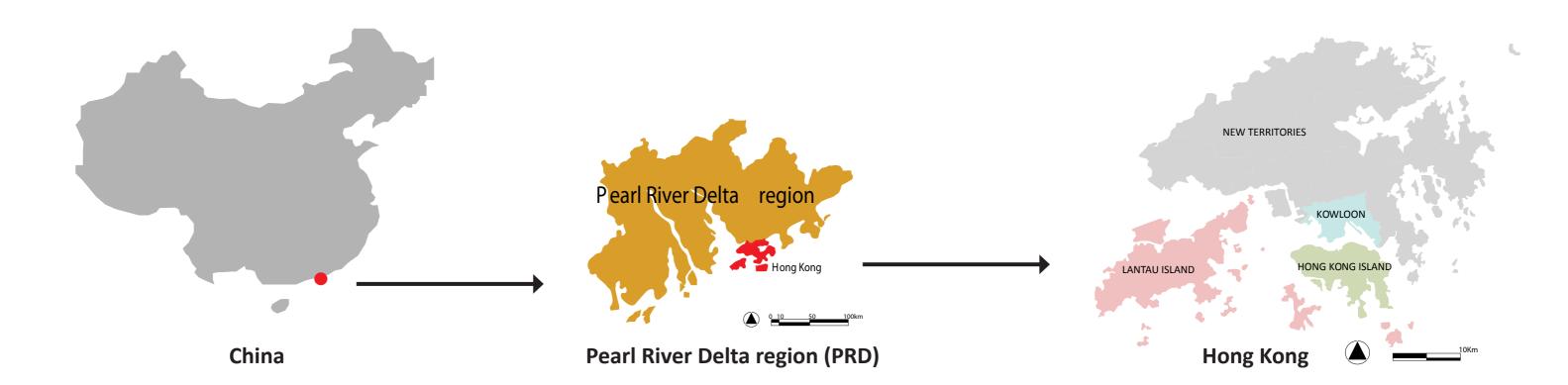


# 

- **1. Problem Statement**
- 2. Project Area TSW
- 3. Methodology & Theoretical support
- 4. Vision
- 5. Strategy
- 6. Design
- 7. Conclusion



# Problem Statement





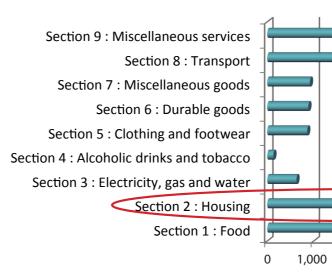
Hong Kong - Shen Zhen (HK-SZ)



Trade port & International financial metropolis The world's freest, most competitive & most service-oriented economy

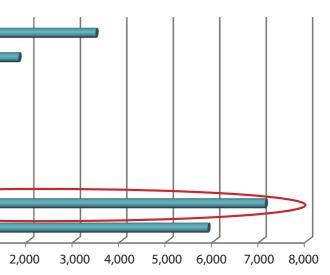


Hong Kong is both heaven and hell, depending on who you ask. Heaven to wealthy tourists



HK tops world rich-poor gap in 2009, 18.1% population live in poverty Housing cost the most for household





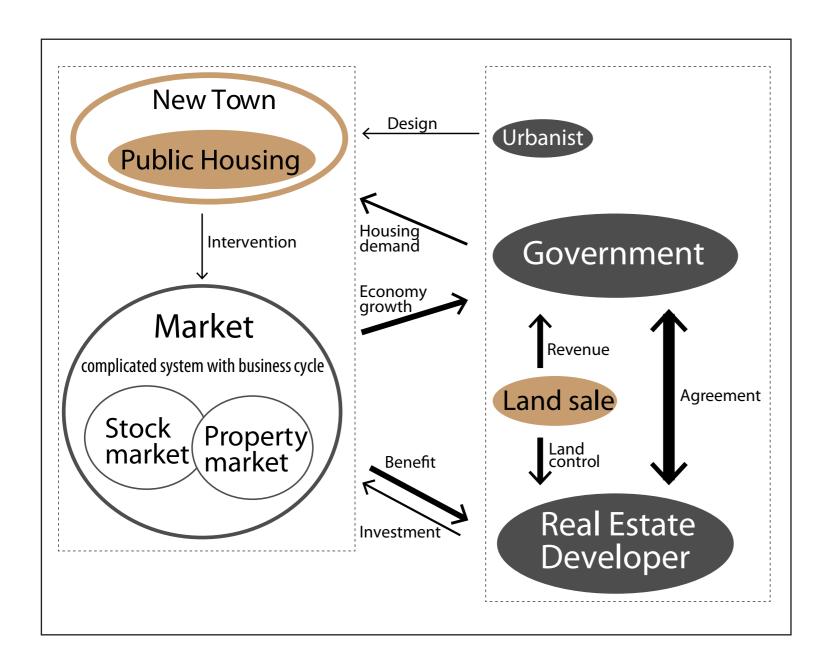
### Problem Statement

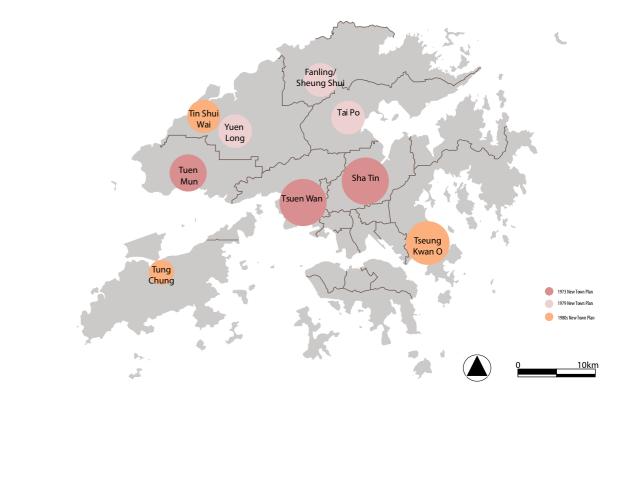




HK residents protest against extreme high housing price They called for more public housing

Chief executive said: housing solution would be the first priority of the coming policies. 14/10/2011





Land sale & Property market: complicated system and crucial for HK's economy Public housing: Intervention to meet housing demand & decrease housing price New town: public housing construction

### 9 new towns in Hong Kong

### **Problem Statement**

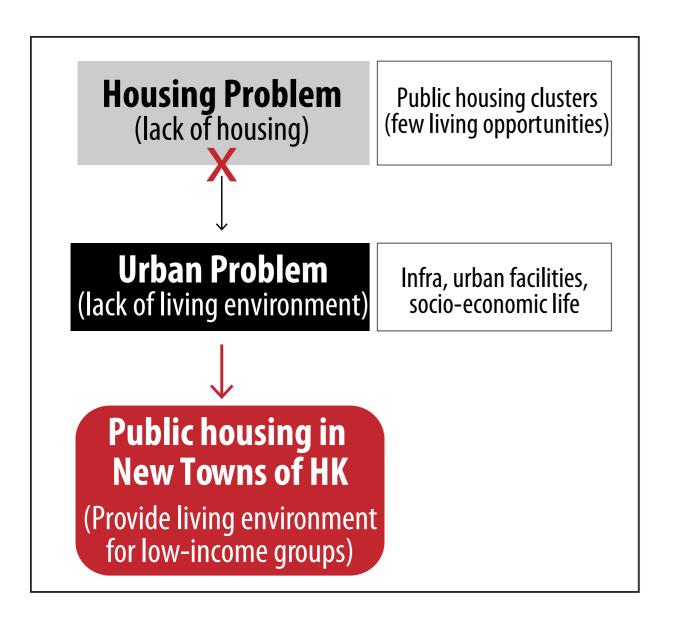
	Pre - 1954	1954-1972	1972-1986	5 1987-2002	2002 - now
Dominant power	Market	Governmen	t intervention (lar	nd and housing sale)	Big market small government
Target groups	Fire victims	residents of planned area	working class	low-income middle-income	low-income
Housing type	Squatter	resettlement	low-cost housing	subsidized sale housing public rental	housing

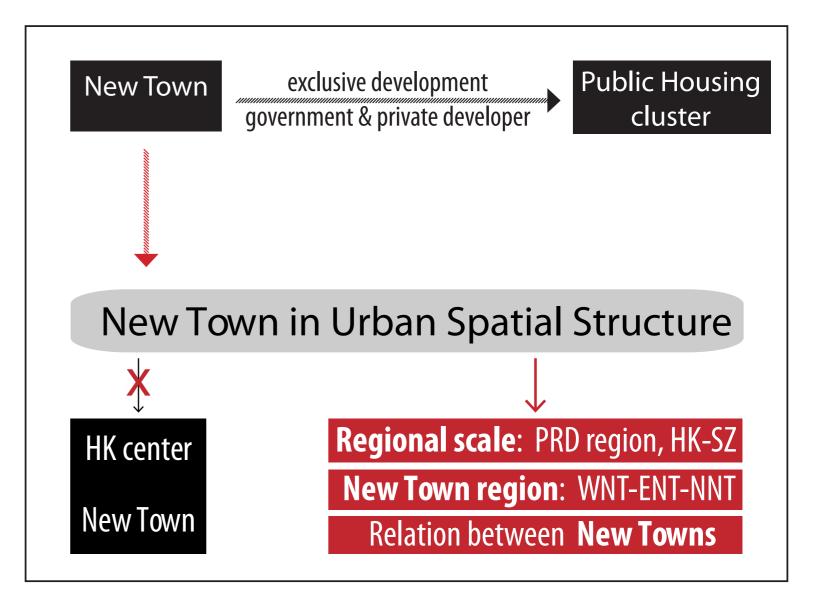
HK: Public housing  $\neq$  welfare (economy growth, social stability, control land) Public housing system before 1990s: housing provision based on existing employment, people are grateful.



Differences between the housing systems of the welfare state regimes, Based on source: Hoekstra, 2003

Corporatist	Liberal
igh,based on ocial status	<ul> <li>high,based on income</li> </ul>
amily, NGO	• market
reserve social tratification timulate private actors	• state only support marginal groups
egmented subsidies: pecific arrangement or specific groups	<ul> <li>mean-tested subject subsidies</li> <li>few production subsidies</li> </ul>
oderate state Ifluence to correct egative effect of market	• market determination
ate intervention correct market ertain groups be woured	<ul> <li>market determination</li> <li>regulated allocation in small part (reserve for low-income groups)</li> </ul>
noderate strict patial planning	no strict spatial planning
private sector households,small companies) takes initiative	<ul> <li>private sector (mainly big companies)</li> <li>takes initiative</li> </ul>







1980s

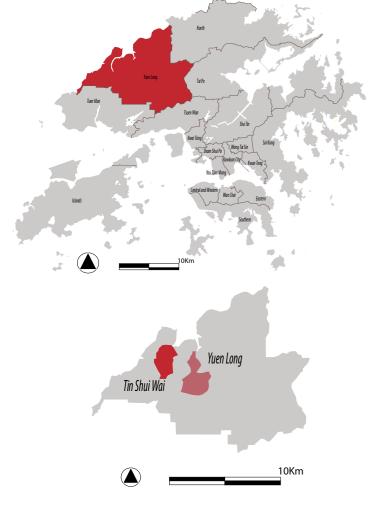






## Project Area - TSW

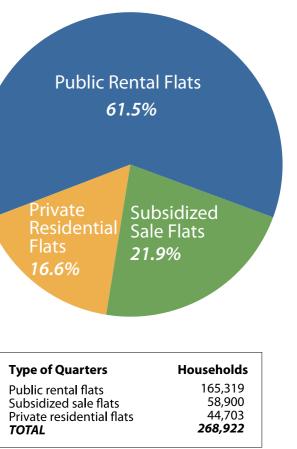




Intel 2011 Aerodata International Surveys

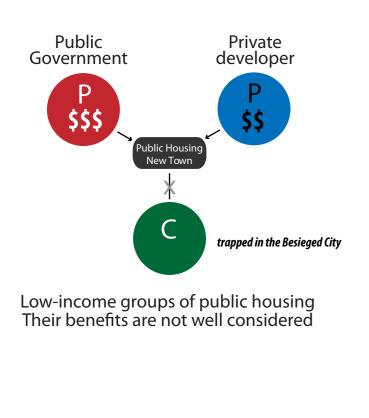
TSW: 300,000 residents on 4.88 km<sup>2</sup>

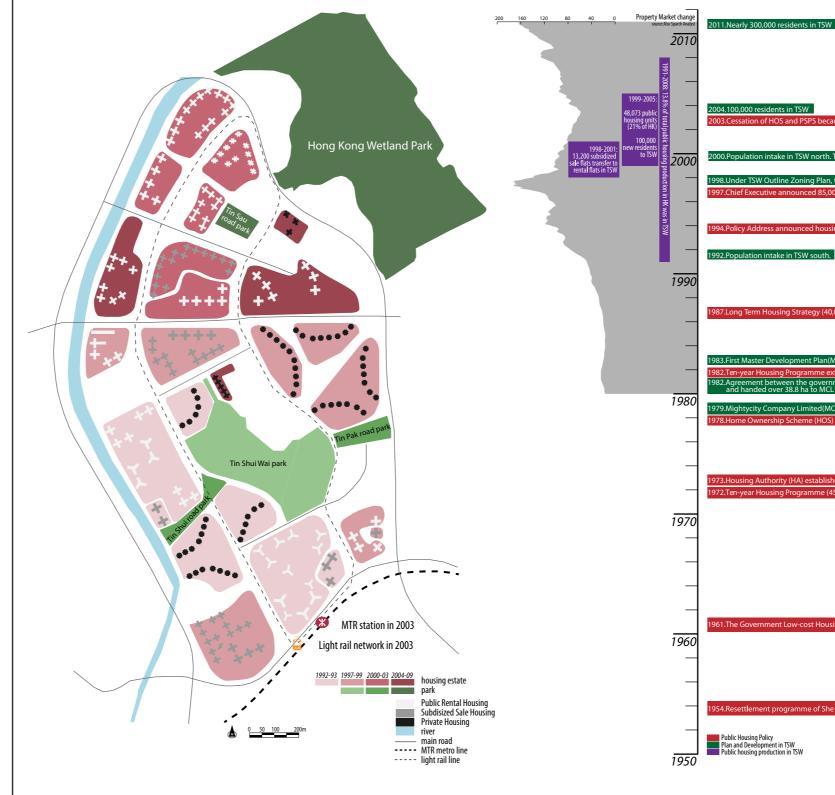
**TSW in Yuen Long District** 



### Public housing in TSW

## **Besieged City - Development & Planning Approach**

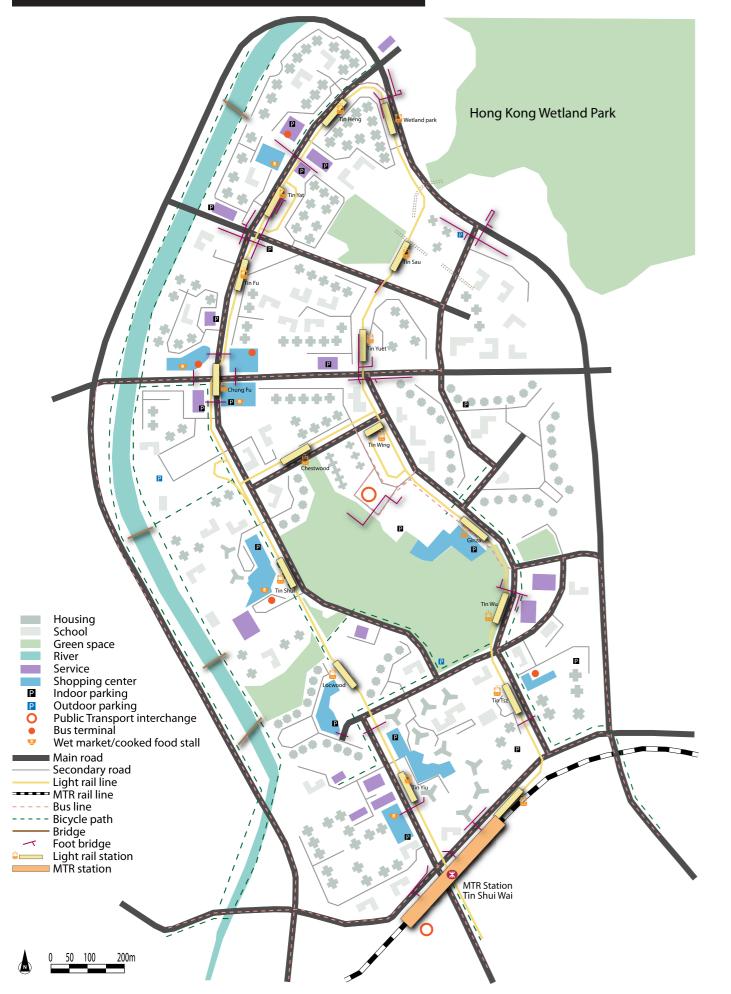


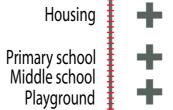


Large public housing demand of public sector & economic benefit of private developer sped up the developement of TSW and changed the 'balance development' new town plan

ntake in TSW south

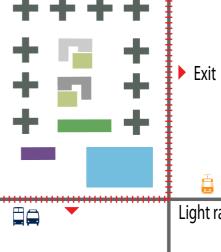
# **Besieged City - Spatial Design**





Open space Service Shopping center

Bus stop



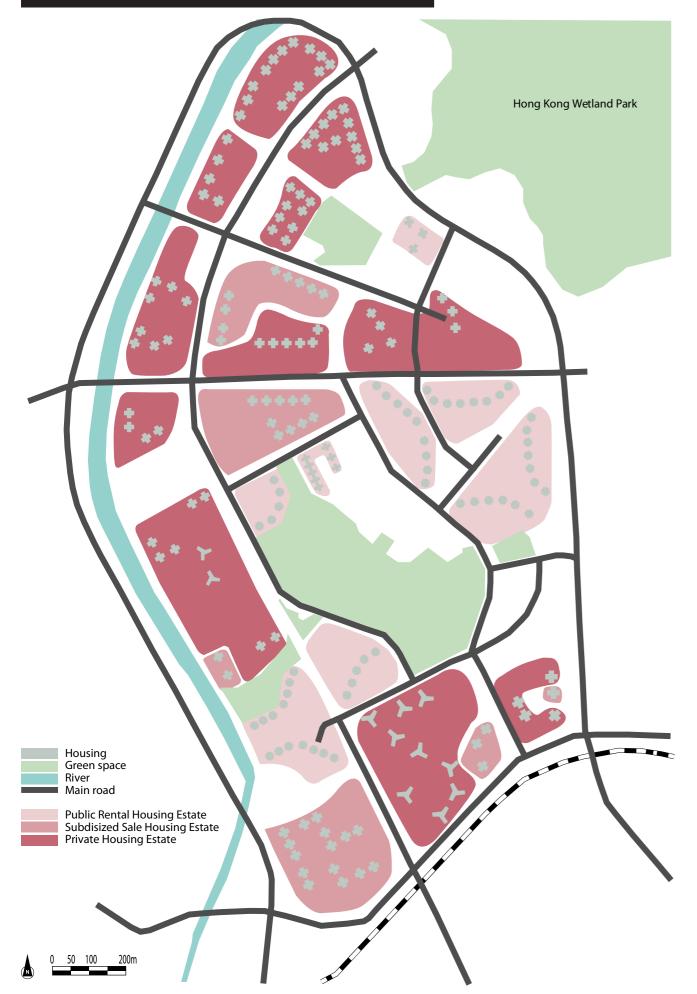
100m

Light rail station

MTR Station

Housing Estate Sample Scheme

## **Besieged City - Spatial Design**





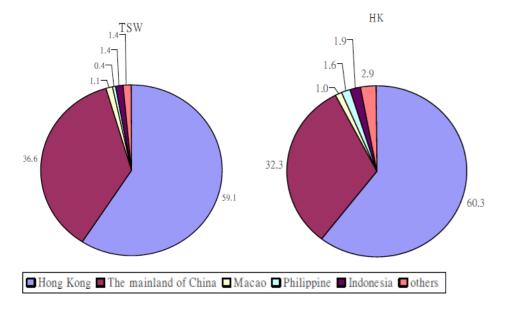


Besieged housing estates copying 15 times. Few job opportunities inside TSW and in surrounding area Not a new town, but a huge residential area only for sleeping rather than living.

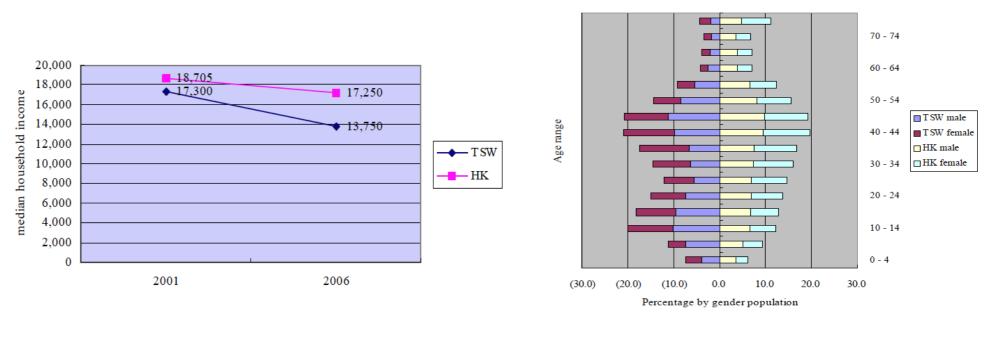




## **Besieged City - Bad Public Image**



Birth place of residents of Tin Shui Wai and HK, source: HKU SWSA,2009



Median household income in TSW and HK in 2001 & 2006, source: HKU SWSA, 2009



Unemployment / New migrant / Youth crime / Suicide /Homicide Focus of Public media (bad image in public eyes): the city of misery

Age distribution in TSW and HK in 2006, source: HKU SWSA,2009

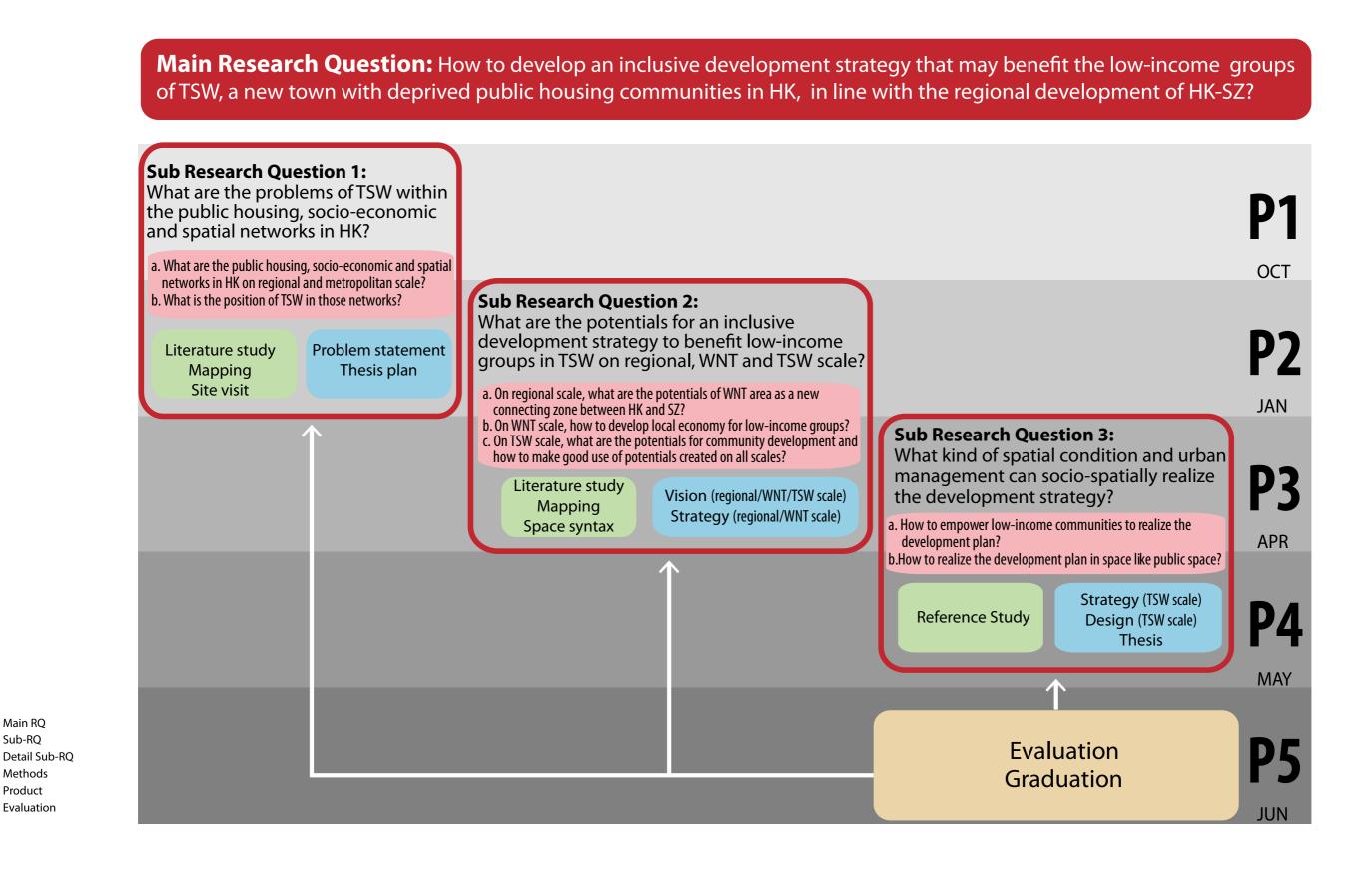
### Methodology - Research Question

Main RO Sub-RQ

Methods

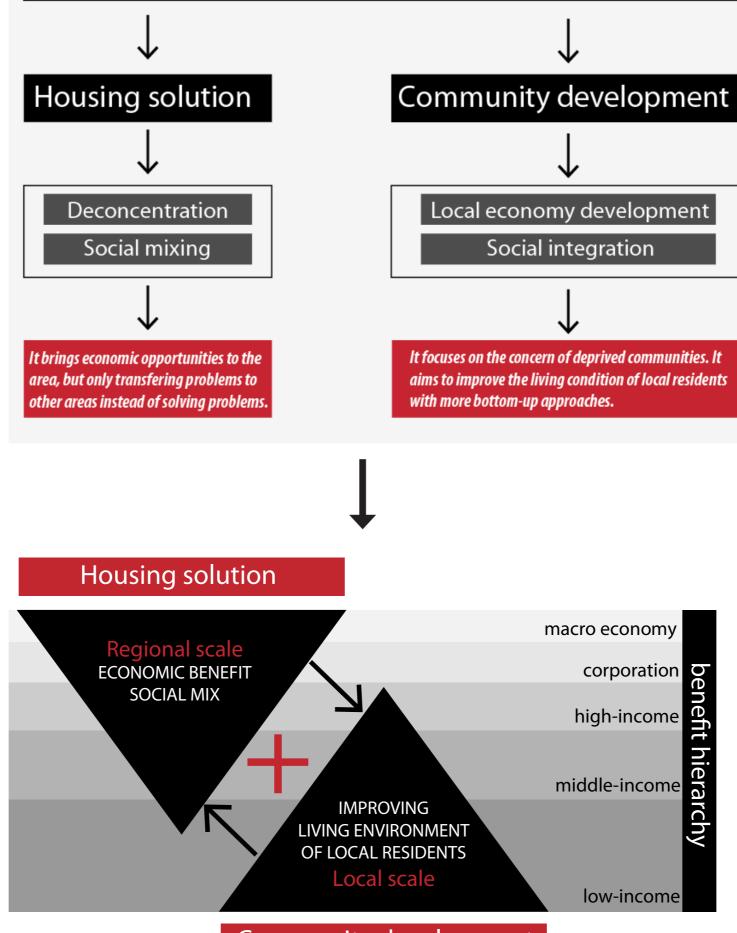
Product Evaluation

How to develop an inclusive development strategy that may benefit the low-income groups living in this public housing cluster of new town, in line with the future regional development?



## Theoretical Support

### Transforming deprived public housing communities

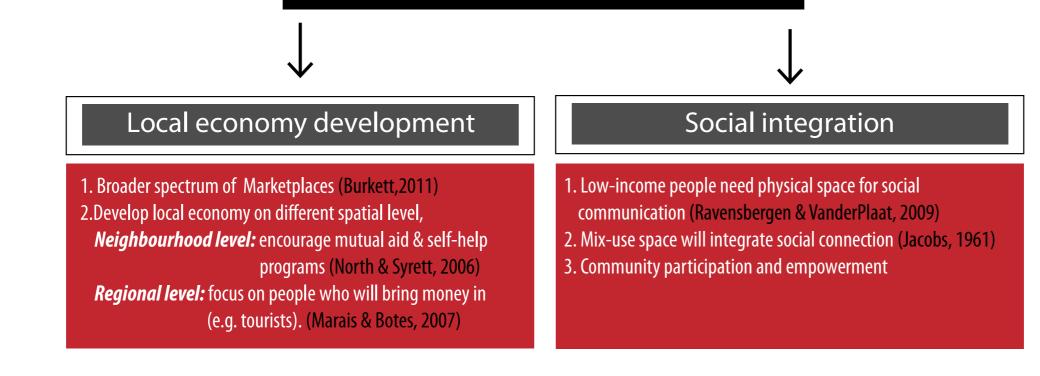


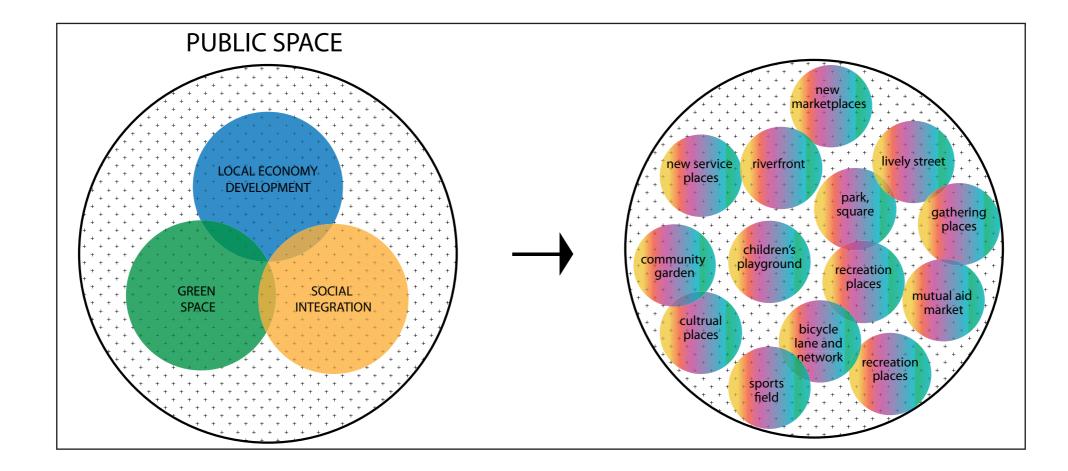
Community development

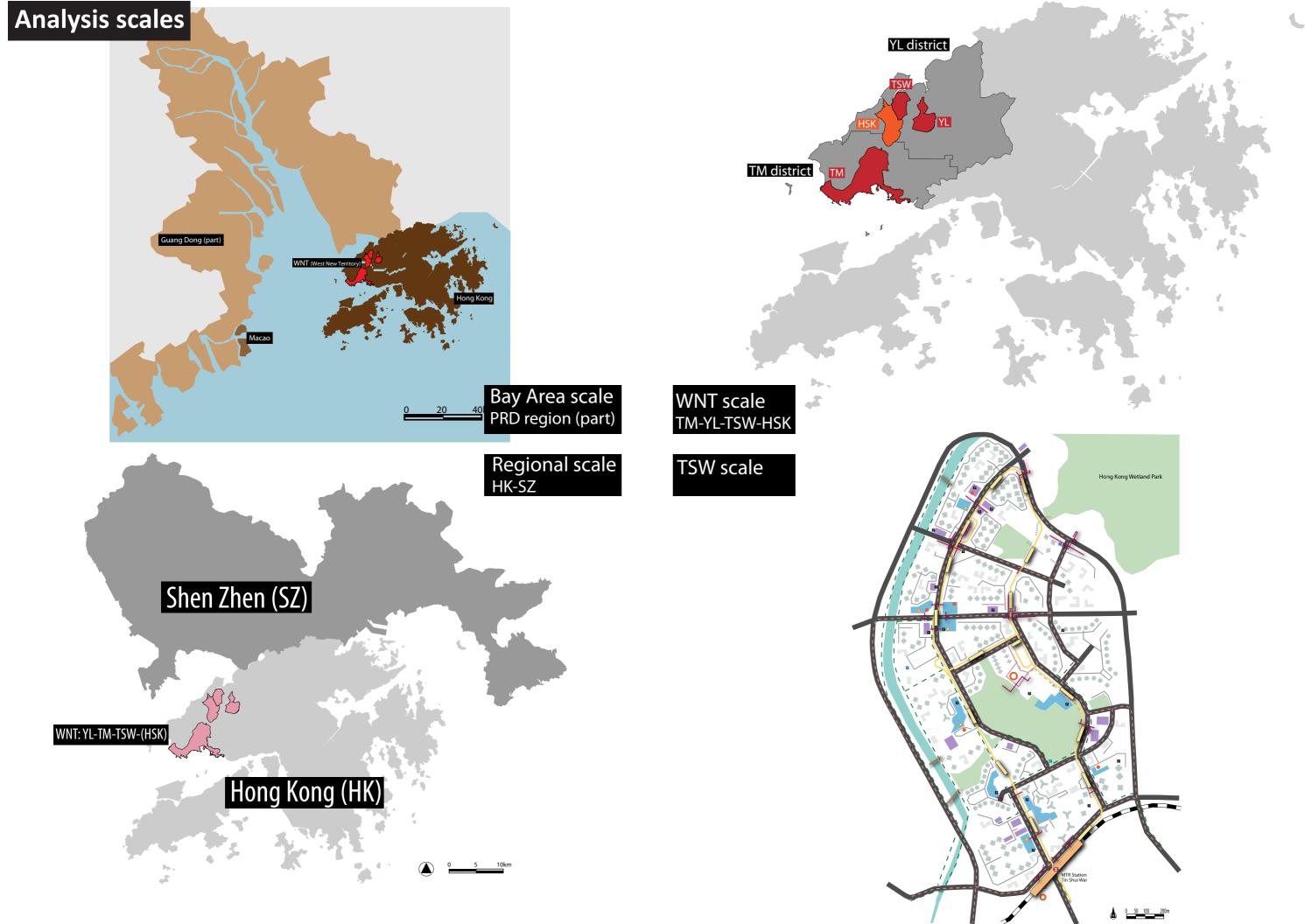
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## **Theoretical Support**

# Community development



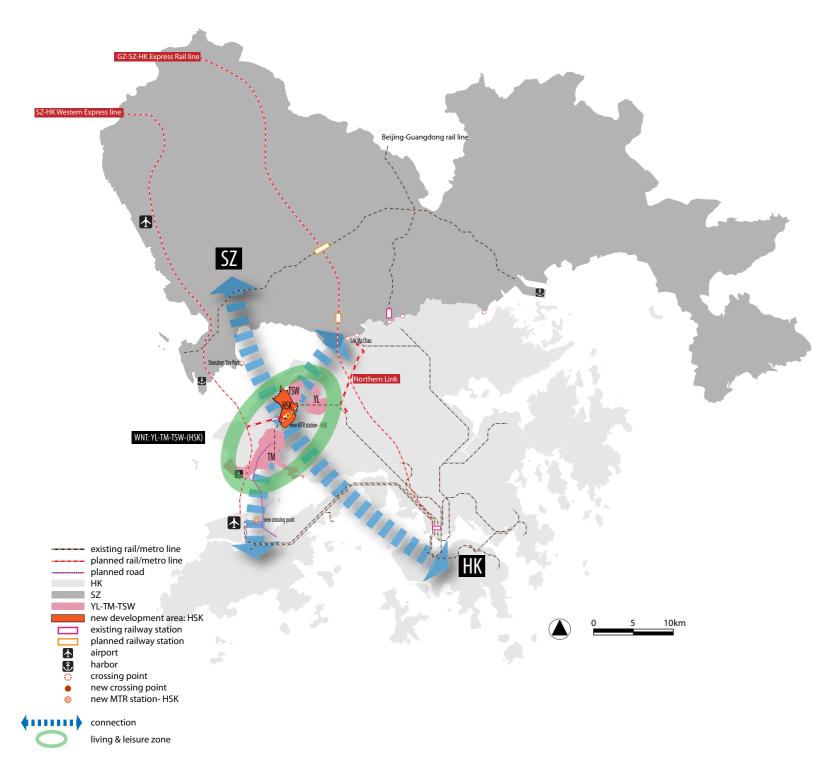




## Analysis on Regional scale



Bay area Action plan study



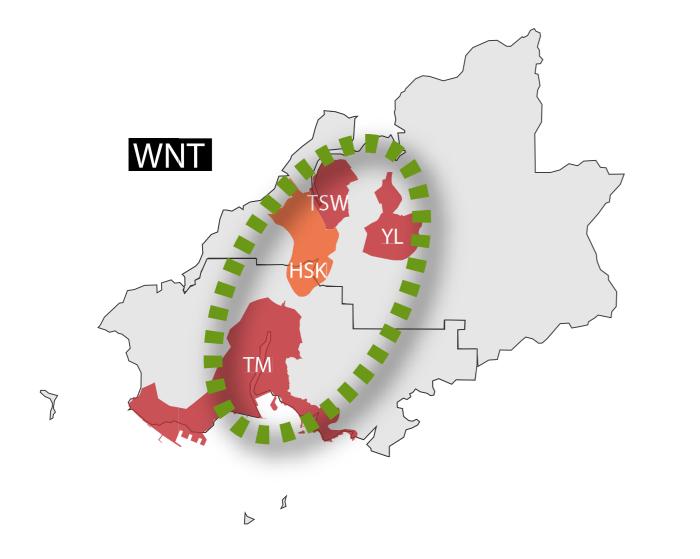
### HK-SZ: new infrastructure connection & new development area of HSK

1). WNT area would be a new connecting zone between HK and SZ

2). WNT area would be a new centrality based on new development in HSK, so it will be attractive for both HK and SZ residents, especially for cross-boundary commuters;

### New development benefit low-income groups???

## Analysis on WNT scale











政府資料顯示,元胡區(包括 等的農糕,吸引不少農理人士光顯

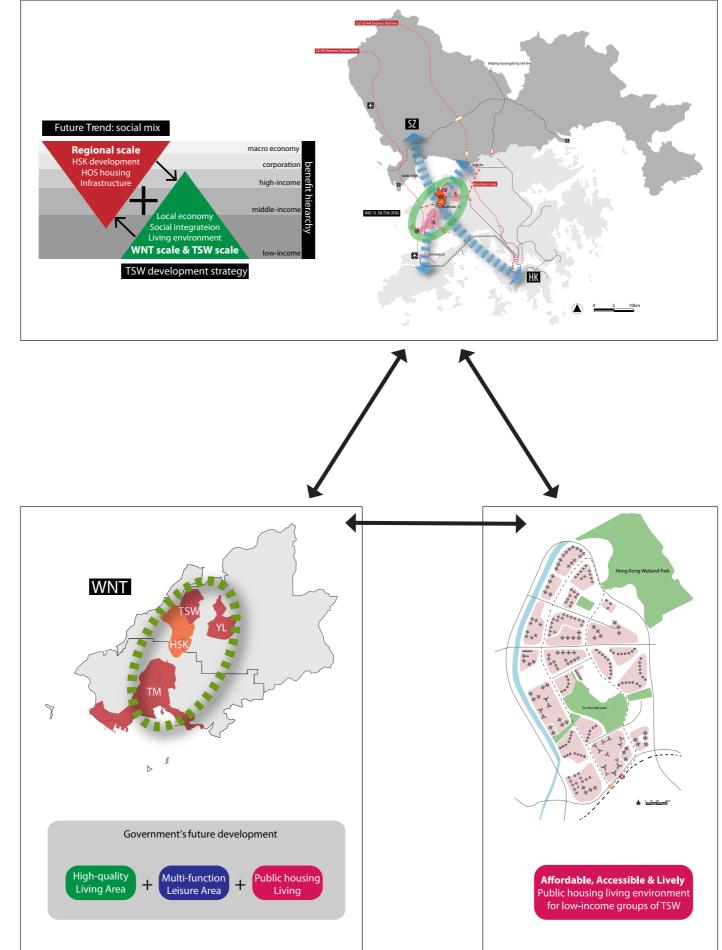
Housing condition is more spacious than city centre Closer to natural environment

- -- Strong community sense, willing to help each other
- -- Fight for their own hospital, library, public space
- -- NGOs



、士光顧。 時間的工作,故會嘗試以擺實形式講

### Vision

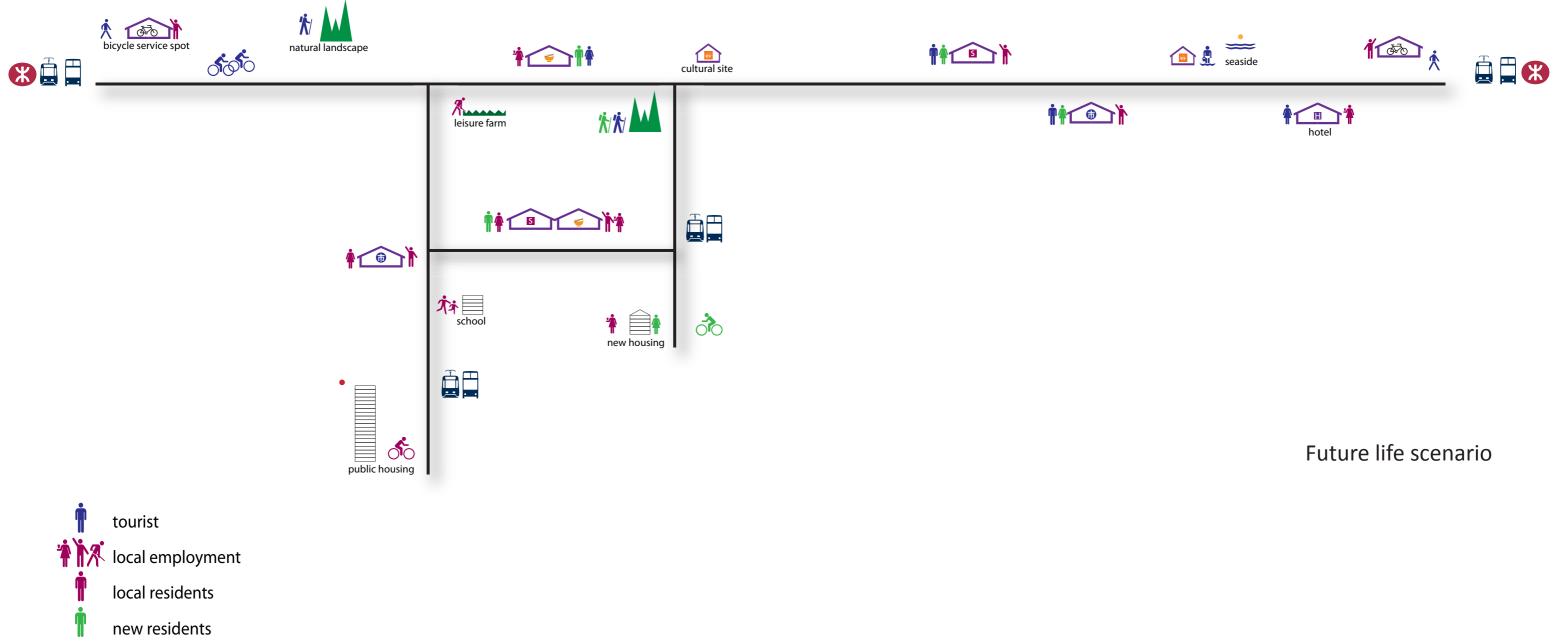


Promote urban dynamics in WNT area by more physical and socio-economic connections among different new towns. WNT area would have the potenrialities to develop into a social-mix area with diverse development: high-quality living area, multi-function leisure area, and public housing living area linking the two cities of HK and SZ. In return, government's plan will benefit from a better image of WNT area. Under the background of government's proposal on regional scale which will bring **social mix** and new development into WNT area

TSW - the Besieged City - could be opened outward with closer connections to other new towns and more development opportunities in WNT area.

Strategic interventions within TSW scale could open the closed-in housing estates and transform the public housing cluster into **affordable**, **accessible and lively living environment** for existing low-income groups in TSW.

## Vision



### Strategy Approach

### TSW development strategy: Interal & Inclusive approach

Spatial interventions		prie mix	ority to x-functi	al hierarchy: Green Rou pedestrian & bicycle on public space on hu ation of underused spa
Socio-economic measures	5	div uni	erse ma	mall business activities arketplaces al business (bicycle, ca m)
		bui adu cor	lding w ult's trai ntractor	ob creation programs vork for unemployed ning is with new developme iount of jobs for local r
		resi you	idents e uth edu	ructural programs empowerment cation & development re cohesion
Urban management		deo live	crease l ely spac	iving environment blind spots e with eyes on the stre rounds for children
		opt col	timal co laborat	rticipation for urban m ombination of 'space, t ion among governme on, and other groups a
	socio-eco	nomic	measur	es Urban manager

spatial interventions

### Experience & Inspirations from Bijlmermeer

- Spatial interventions: spatial hierarchy & differentiation mix-function & human scale public space
- social safety> traffic safety, clarify road system
   make good use of existing space(garage transformation)

- Socio-economic measures:
  encourage small business activities
  short term projects for job creation and training
  long term structural projects for youth, economic development, multiculture cohesion, residents empowerment

### Urban management:

create safe living environment and decrease blind spots
 resident participation to make good use of public space

oute network numan scale

pace

es

catering,

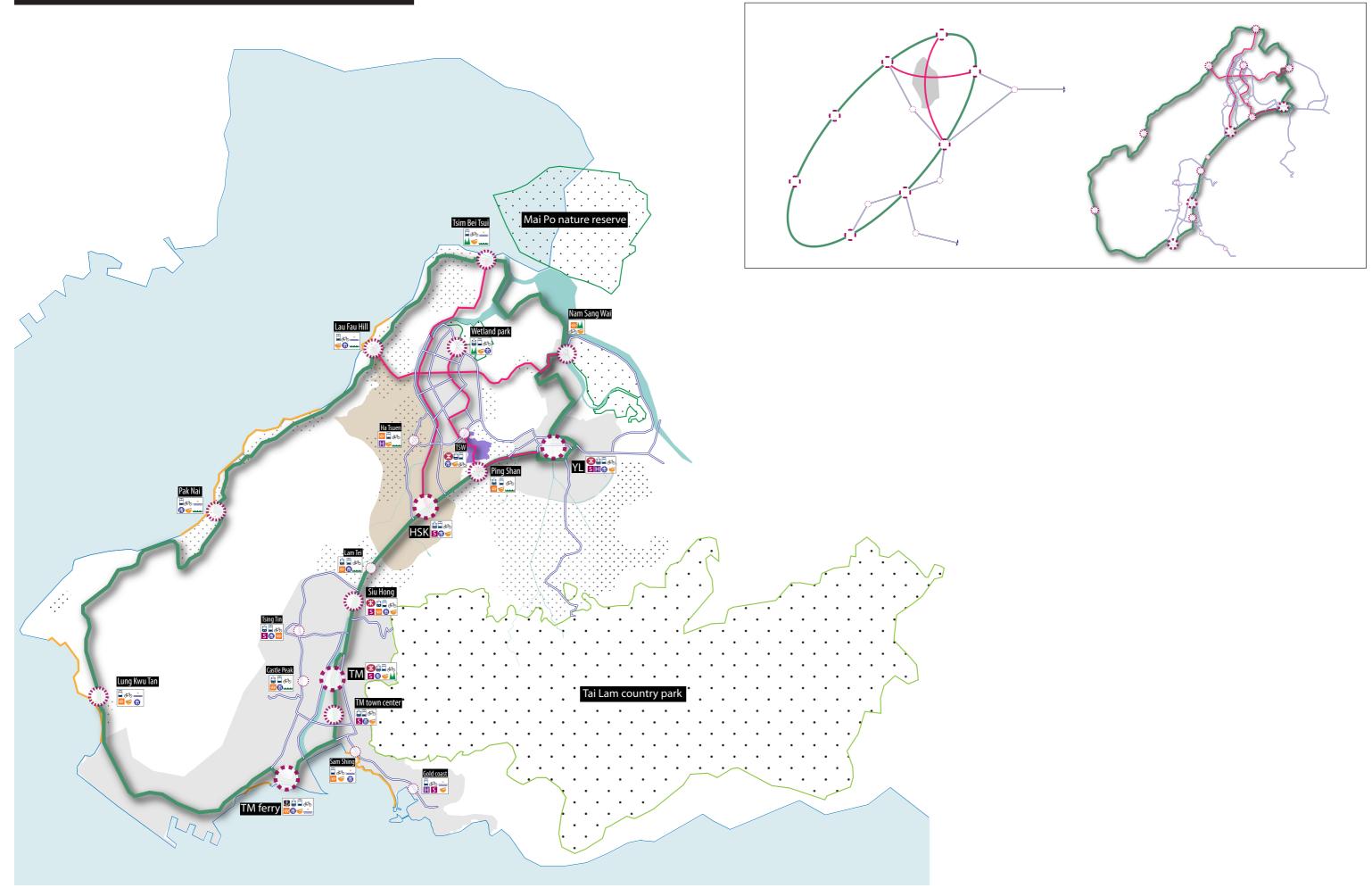
nent to provide l residents

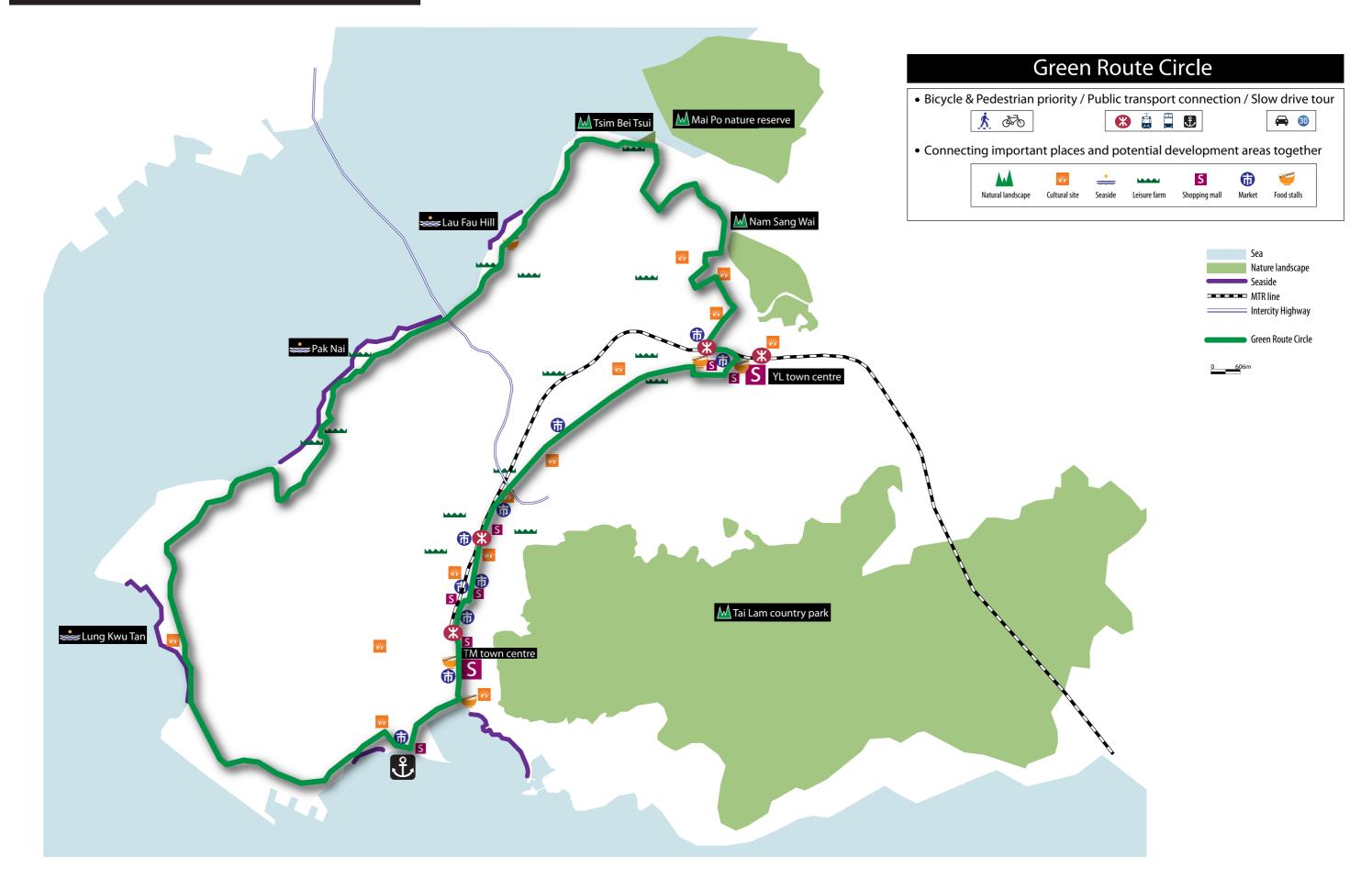
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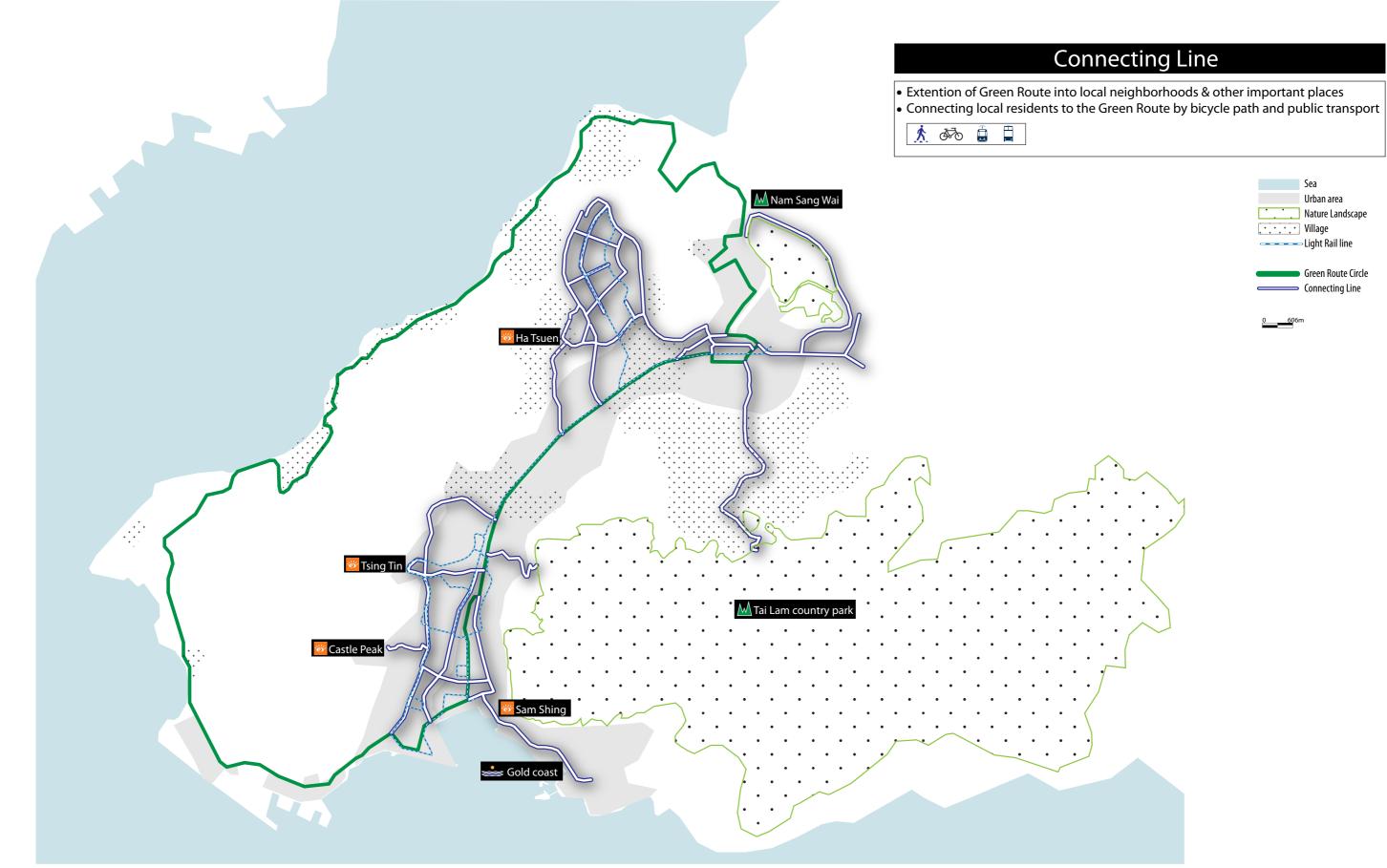
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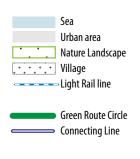
management , time & people' ent, NGO, selfs & individulas

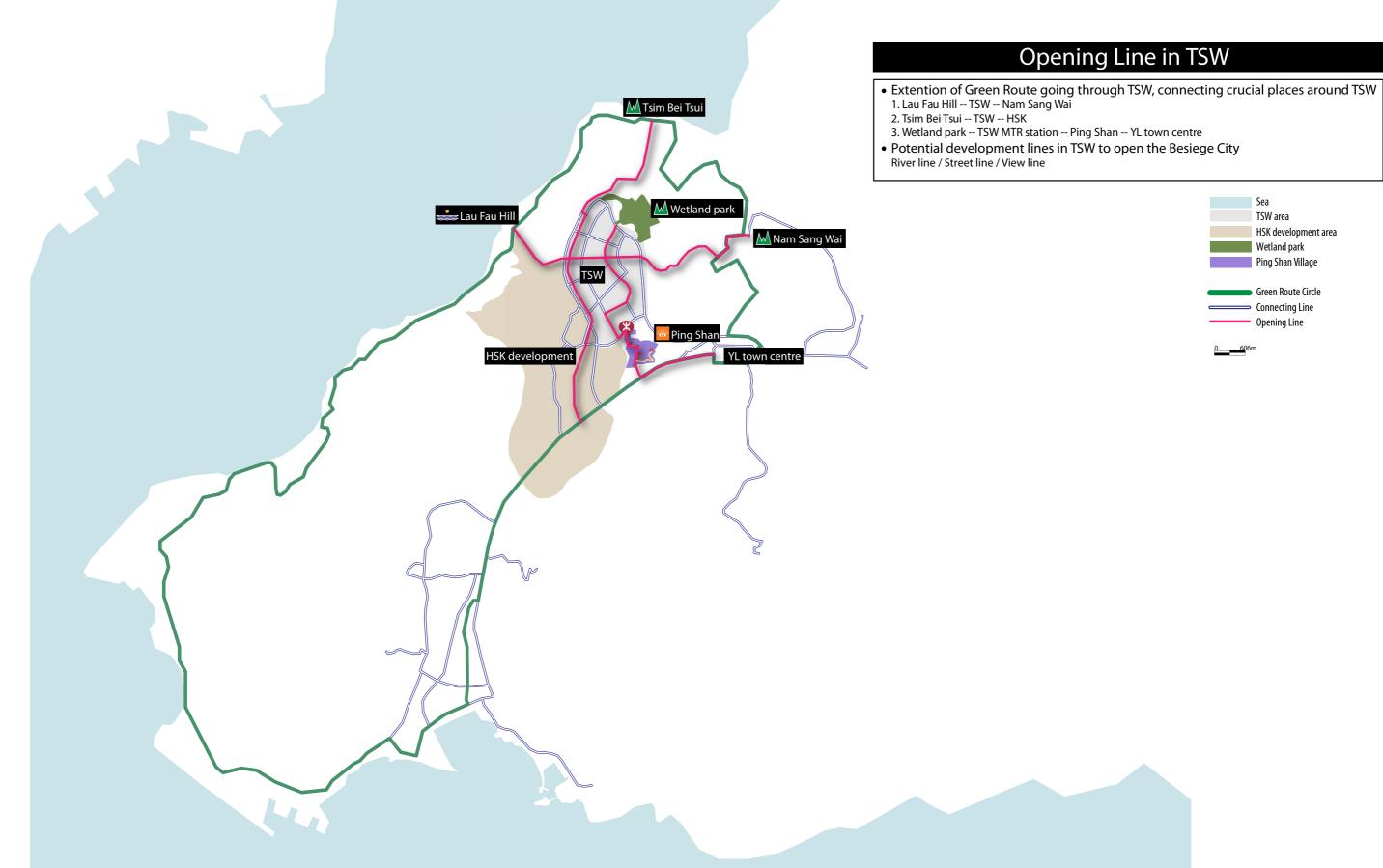




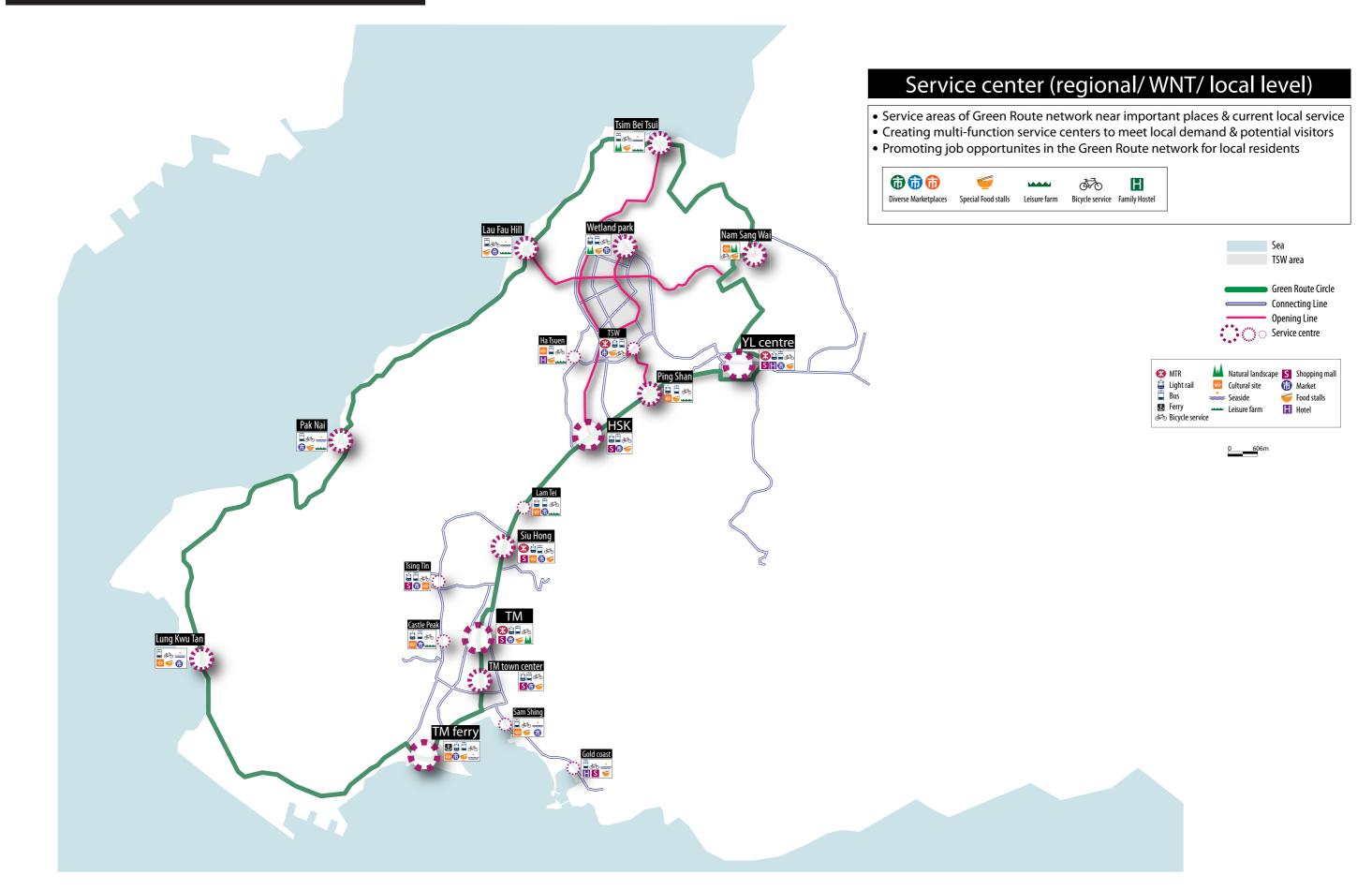




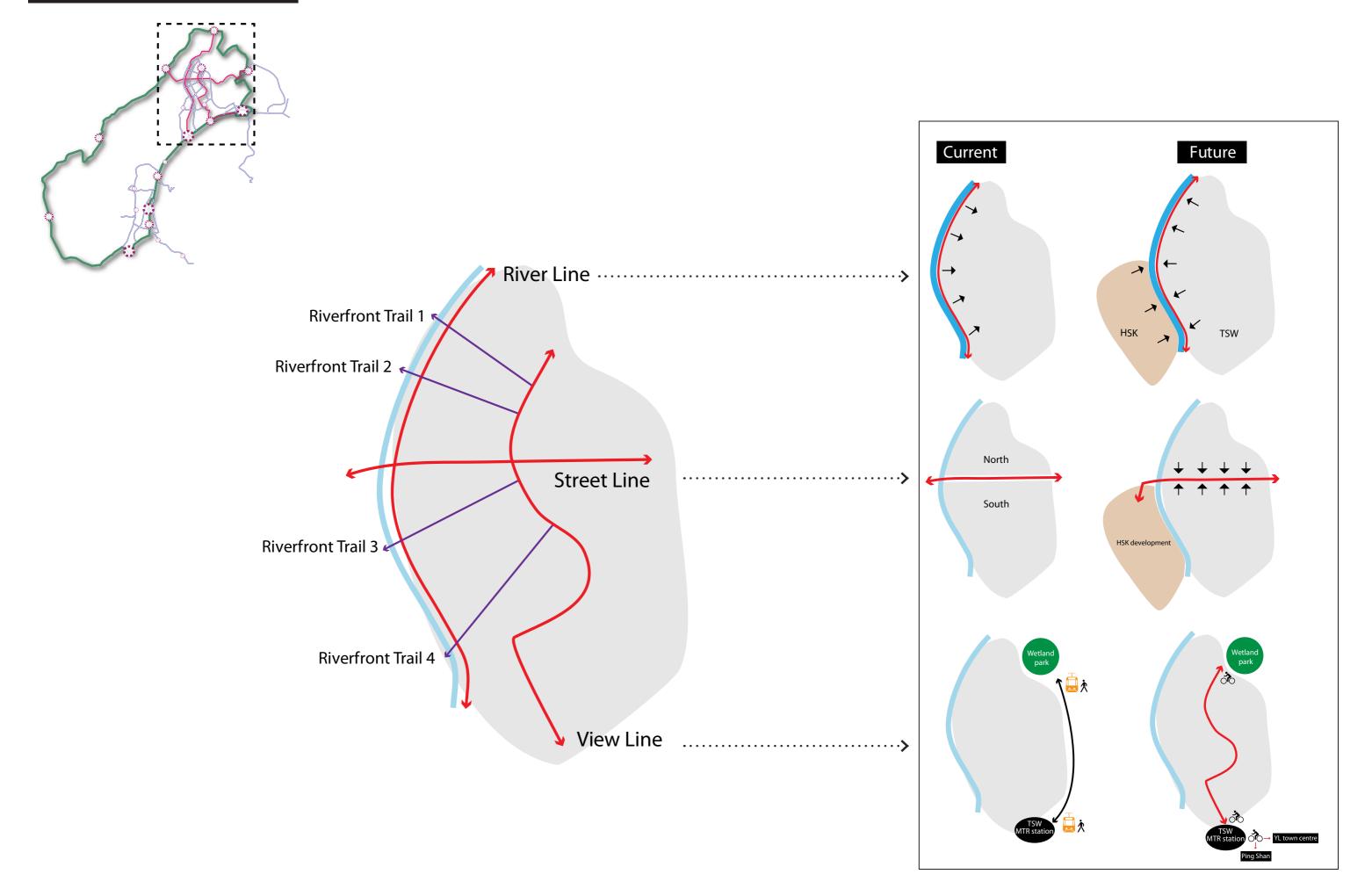


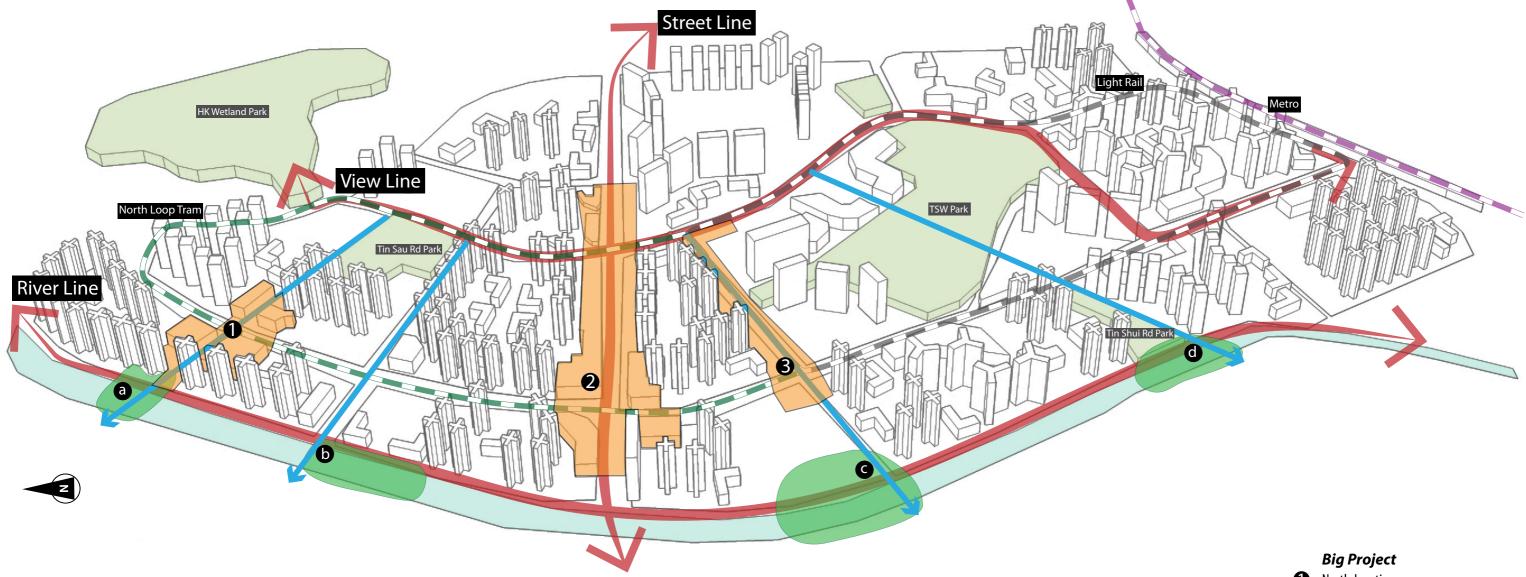


	Sea
	TSW area
	HSK development area
	Wetland park
	Ping Shan Village
	Green Route Circle
	Connecting Line
	Opening Line
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## Strategic Lines in TSW







North Junction
 New Street

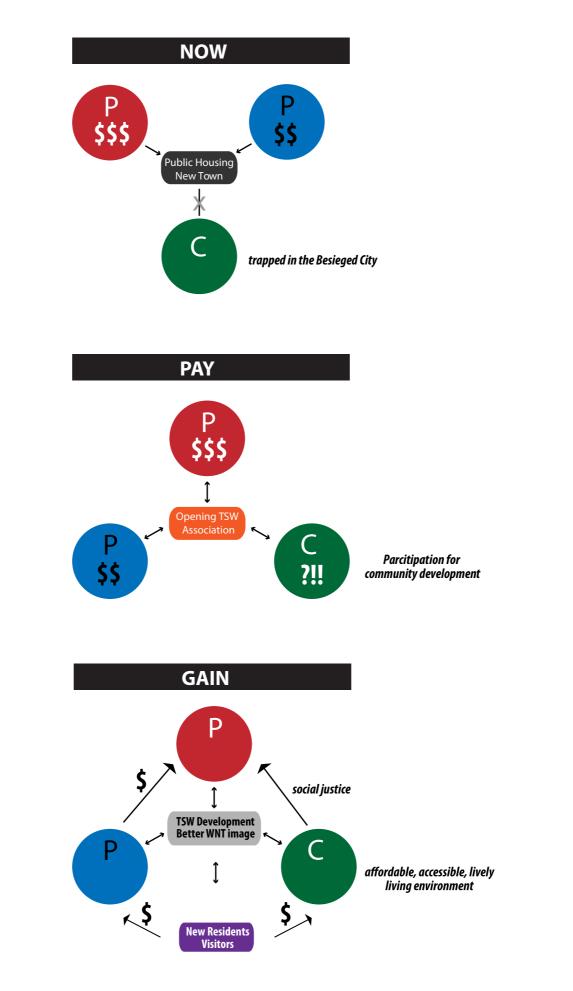
North Loop

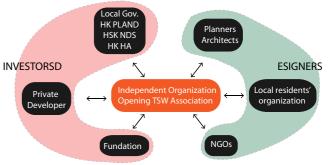
### Small Project / Riverfront

a Extension of North Junction **b** Existing dawn market

- C Extension of North Loop
- **d** Extension of Park

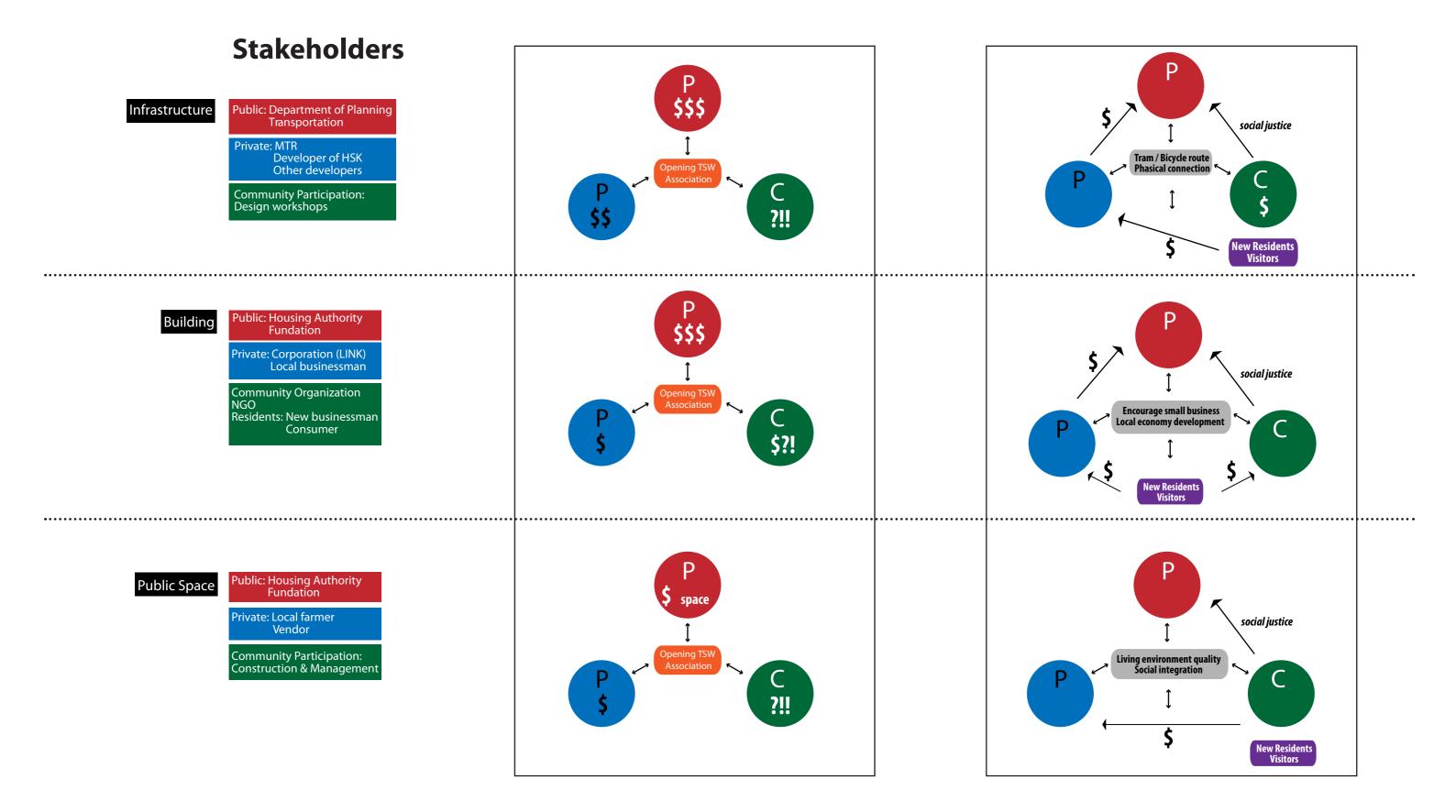
## Strategy - Stakeholders



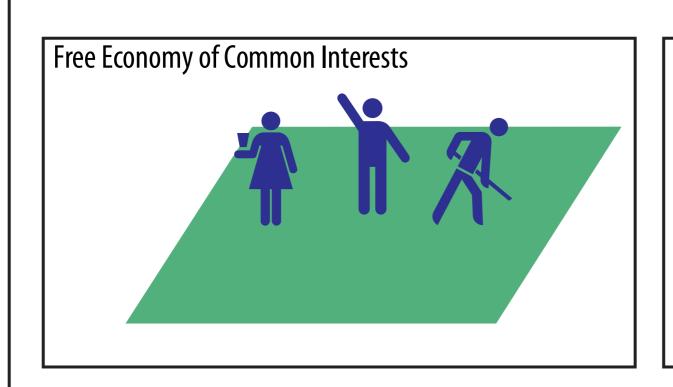


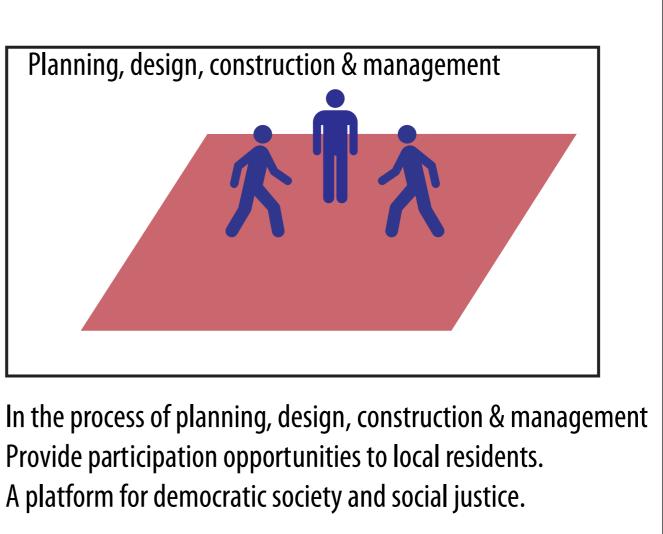
### Design - Stakeholders

### PAY



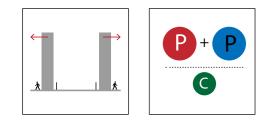
### GAIN

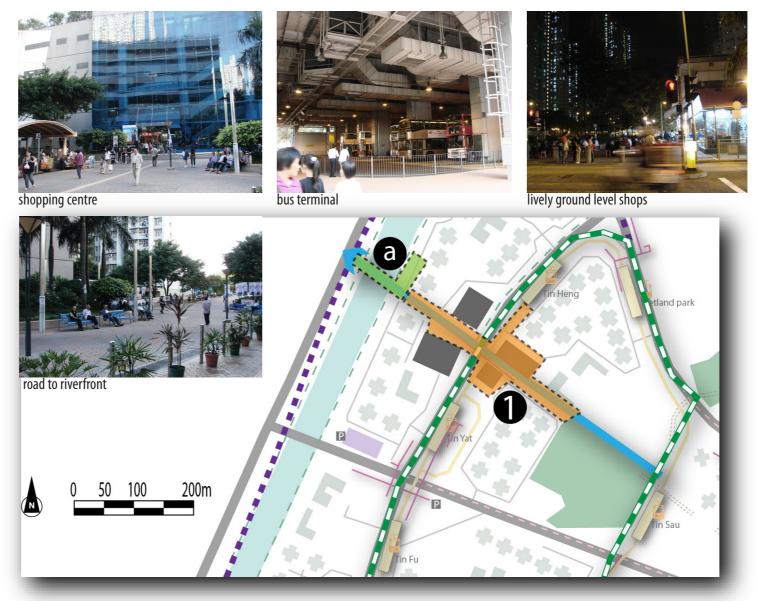




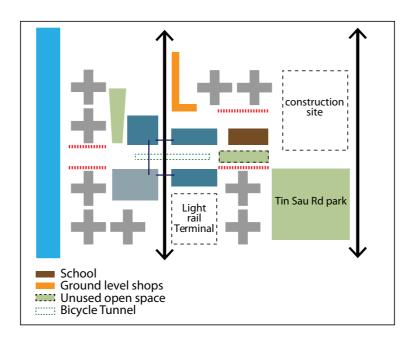
In the framework of Free Economy of Common Interests Provide spatial opportunities to low-income groups, A place where they can work hard for a better living.

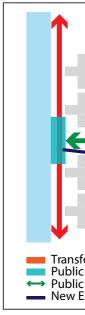
## **Design - North Junction**





CURRENT







empty ground

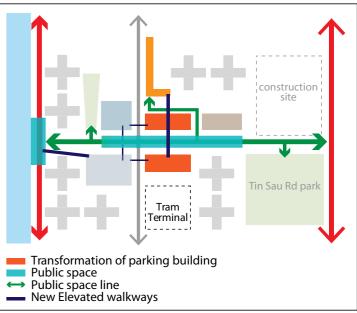


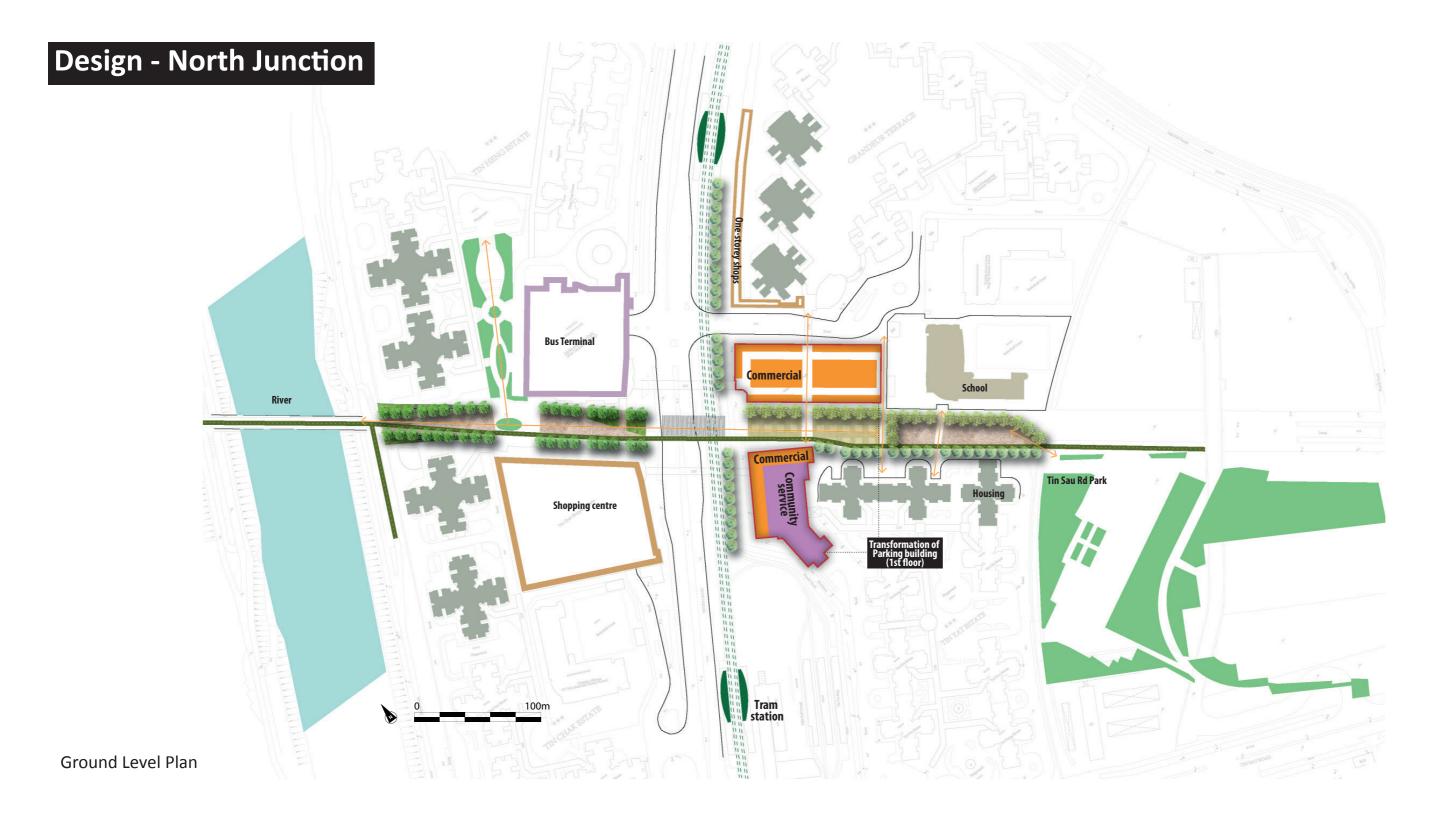
garden inside housing estate



Tin Sau Park

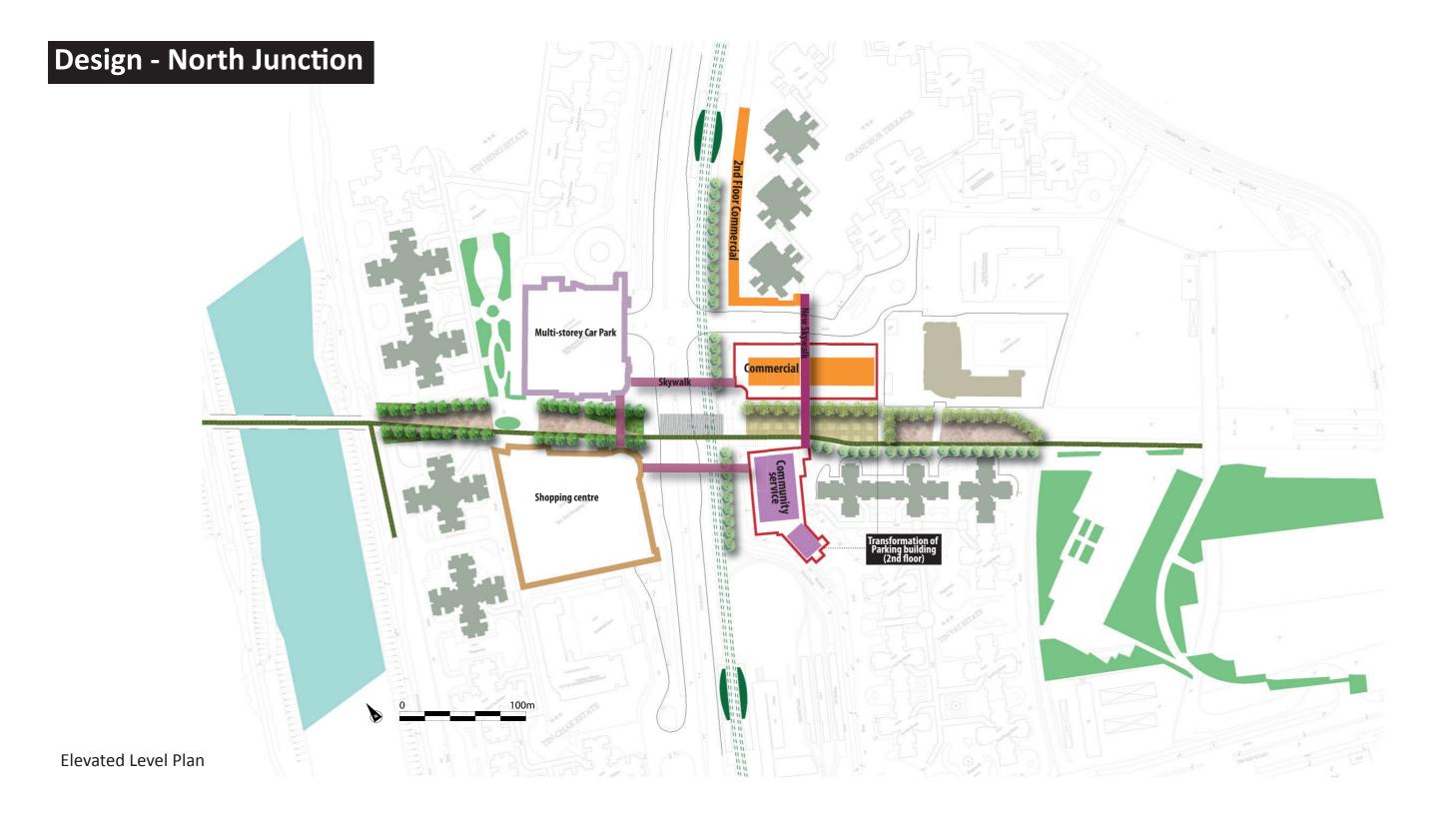
### FUTURE





PARKING	PARKING
COMMUNITY SERVICE	SKY WALK
r i i i i i i i i i i i i i i i i i i i	





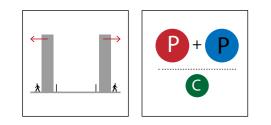


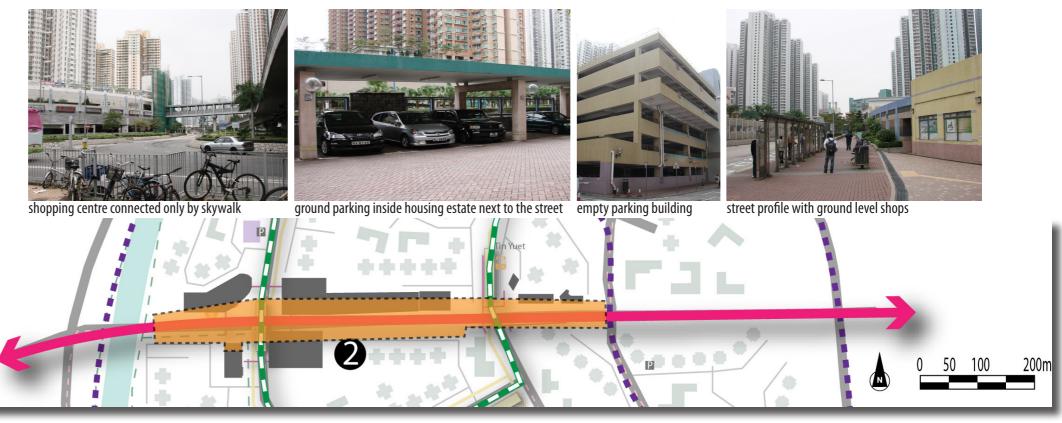
# **Design - North Junction**





# **Design - New Street**



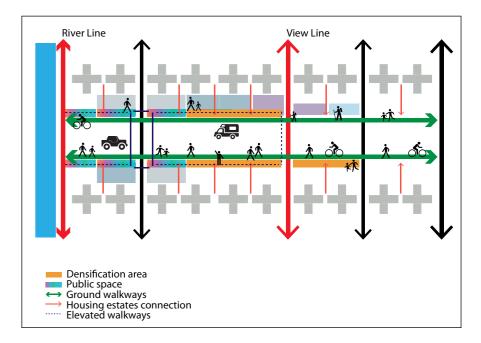


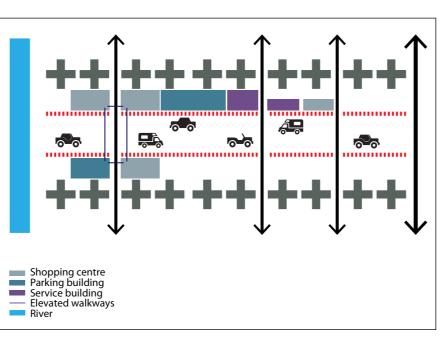


street profile only friendly for car

CURRENT





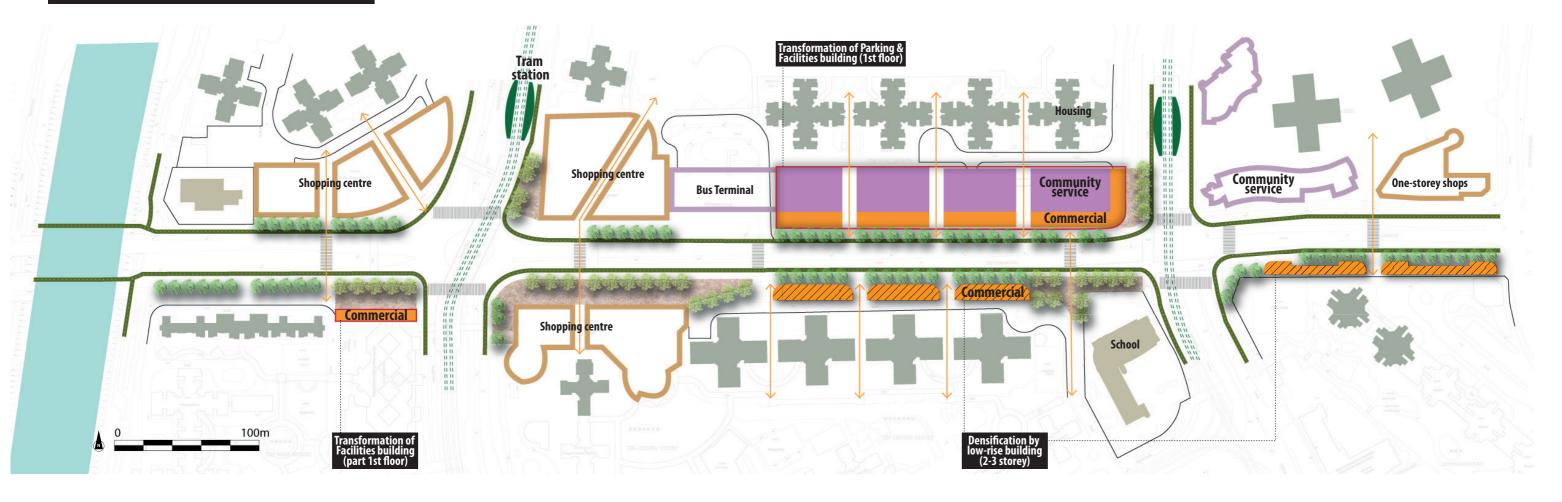




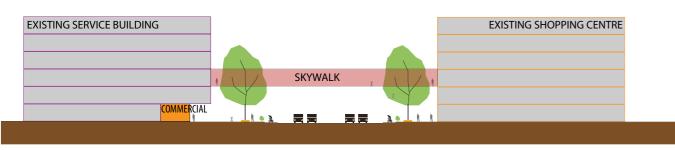
schools

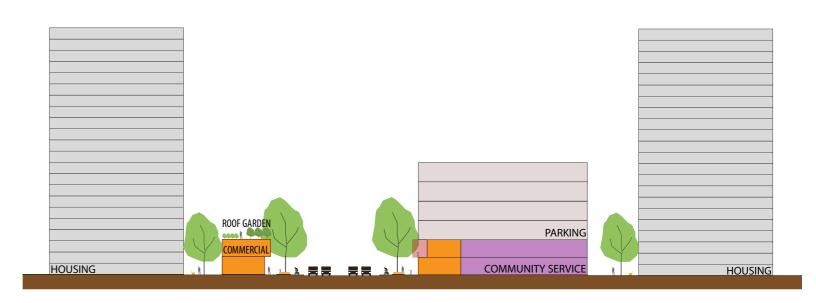
## FUTURE

# Design - New Street



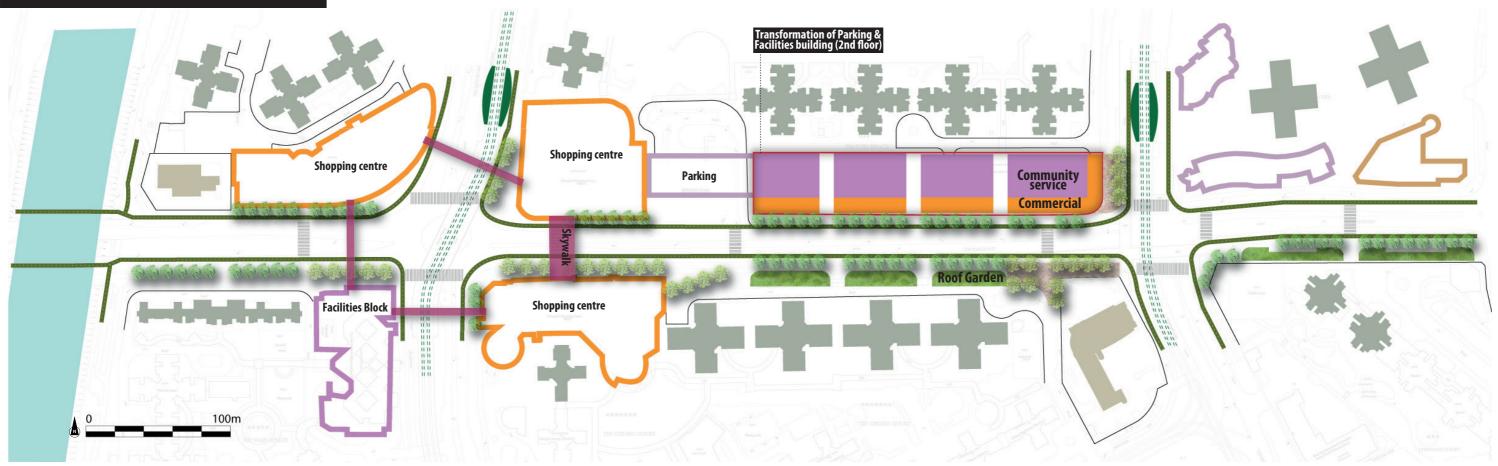
Ground Level Plan





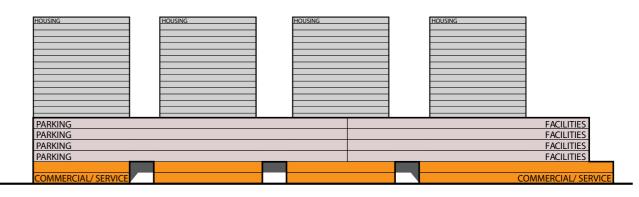
) 10 20m

# **Design - New Street**



Elevated Level Plan

HOUSING	HOUSING	HOUSING	HOUSING	
Multi-storey Car Park			Ancillary	Facilities Block



After

Before

Transformation of Parking building

# New Street - Flexibility



# PLAN & DESIGN INVESTORS DESIGNERS

• How much new commercial & service space are needed? How much parking space to transform Spatial form of new stores

CONSTRUCTION



## **STAKEHOLDERS**

#### Coordinator

-- Independent Organization of Opening TSW Association

#### Public sector

- -- Local Government / HK HA
- -- Foundation

#### Private sector

- -- Private developer
- -- Planners / Architects

#### Local residents and corporations

- -- New small business owners
- -- Parking Building owners (LINK)

## **PLAN & DESIGN**

#### Coordinator

-- Independent Organization of Opening TSW Association

#### Investors

- -- Local Government / HK HA
- -- Foundation
- -- Private developer
- -- New small business owners

#### Designers

- -- Planners / Architects
- -- New small business owners
- -- Parking Building owners (LINK)

#### All stakeholders have agreement on:

1) How much new commercial & service space are needed? 2) How much parking space to transform? 3) Spatial form of new stores

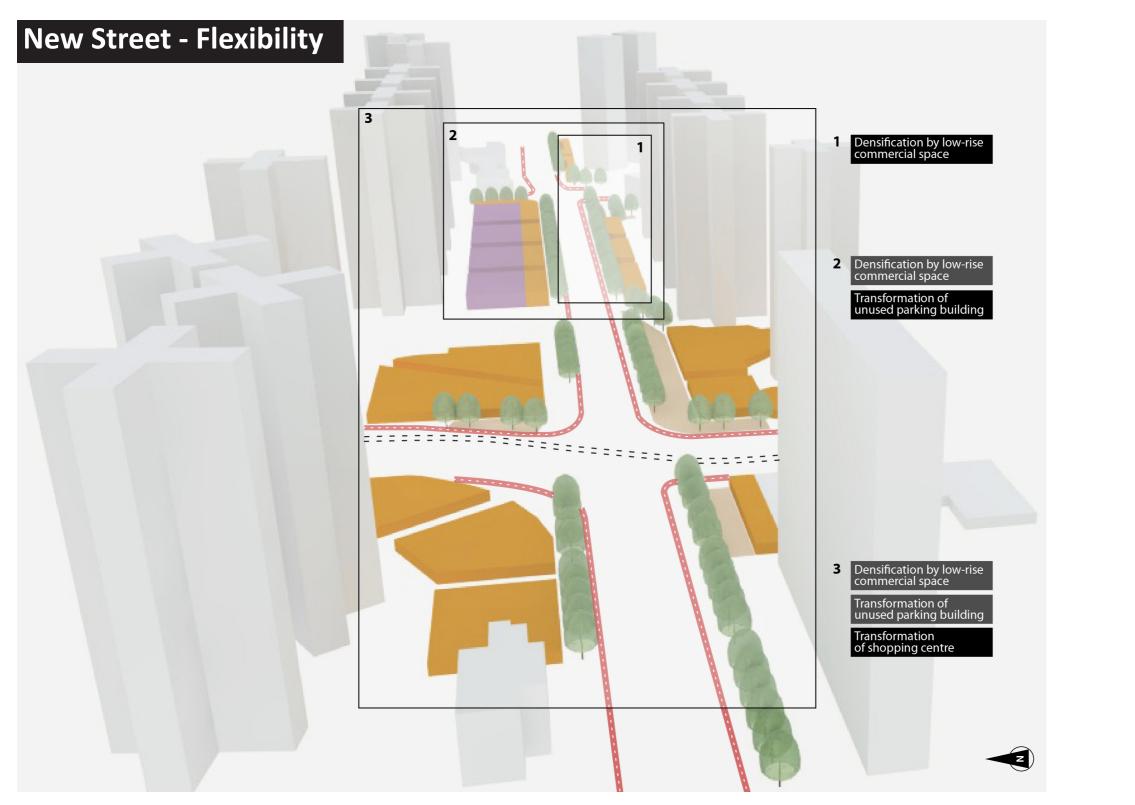
## **CONSTRUCTION**

#### Coordinator

-- Independent Organization of Opening TSW Association

#### Densification & transformation programs by

- -- New small business owners
- -- Parking Building owners (LINK)
- -- Private developer
- -- Local employment



*New Street Scenario 1: Densification by low-rise commercial space* 

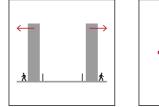
In this scenario, some empty space would be used for densification by low-rise buildings. There will be more small-business commercial space and it would have influence on two housing estates.

*New Street Scenario 2: Densification by low-rise commercial space + Transformation of unused parking building* In this scenario, some parking space will be also transformed into small-business commercial and service. These interventions would have influence on four housing estates, and create some street life on east part of New Street.

New Street Scenario 3: Densification by low-rise commercial space + Transformation of unused parking building + Transformation of shopping centre In this scenario, the existing shopping centres will be also transformed for diverse ground connectivity. So, the whole New Street (fig.42) would become a lively and attractive centrality for TSW, with extension to the riverfront, even to new development area of HSK.

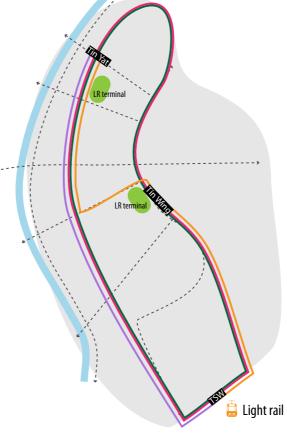


Fig. 42: New Street scenario 3





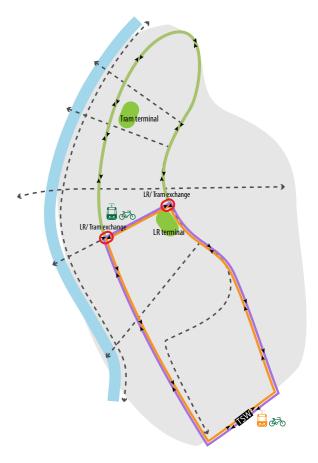








south



# North Loop

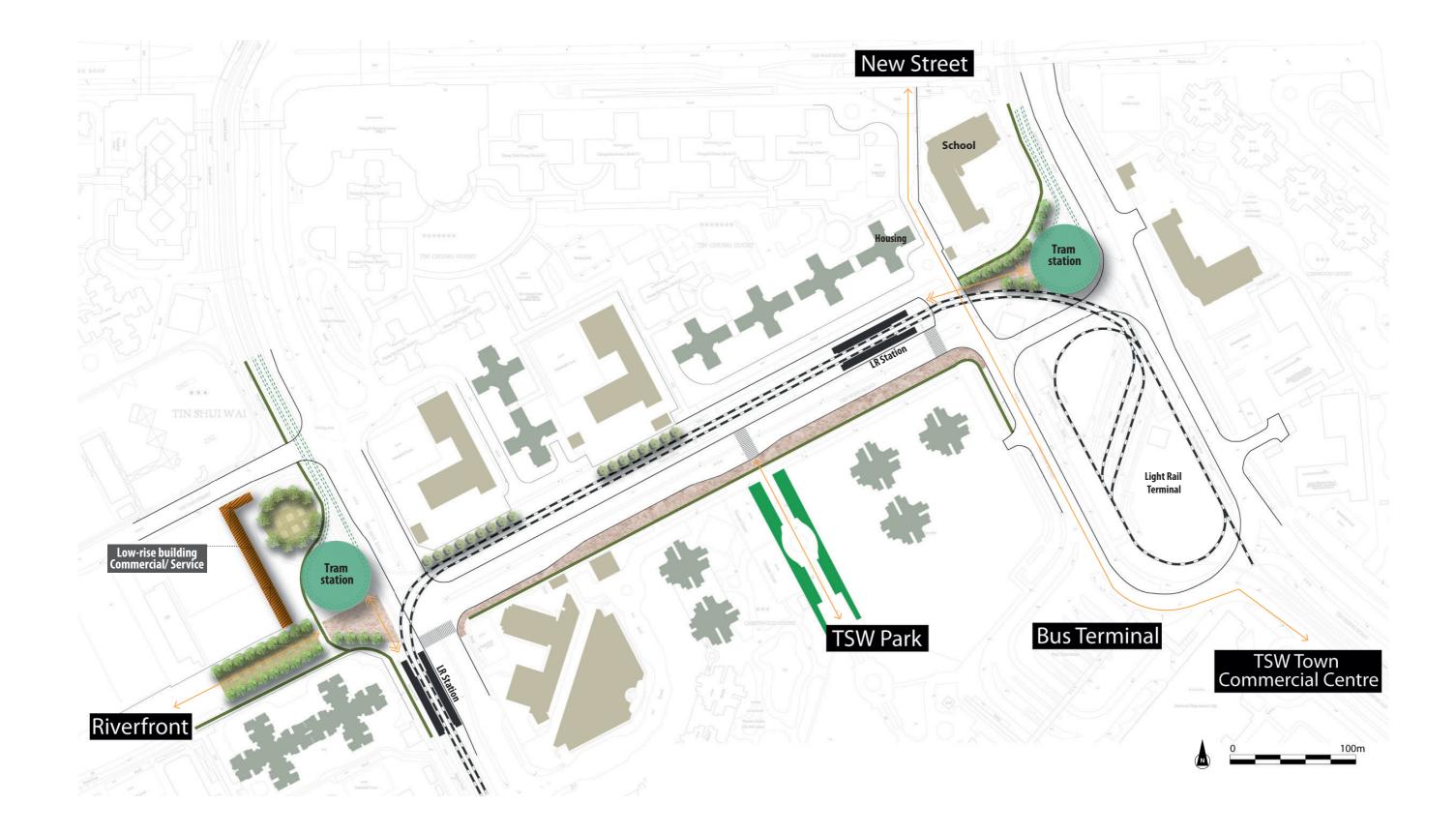
#### New Tram Line

Length: 2.2km Stop: 9 LR/ Tram exchange station: 2

**Residents in service** 500m Radius: 60,000 800m Radius: 100,000 1100m Radius: 150,000

Housing estates in service 8 PRH, 2 HOS, 1 Private

# Design - North Loop



# Design - North Loop

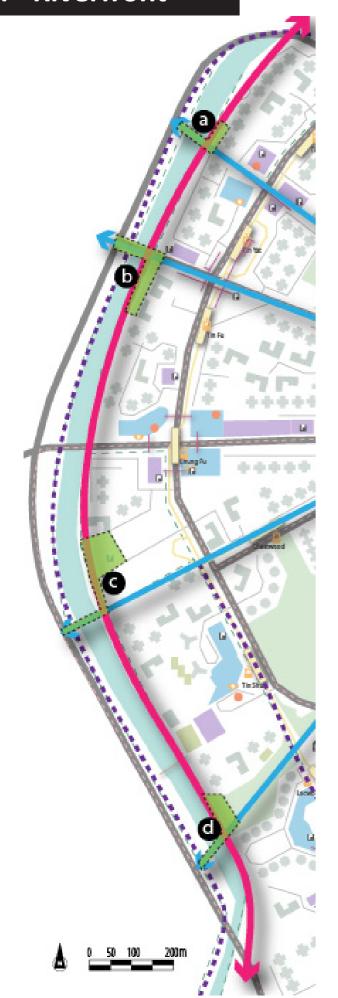


Before



After

# Design - Riverfront







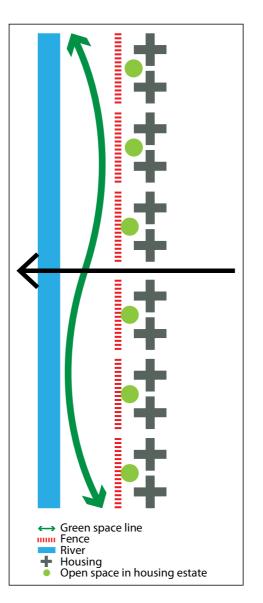




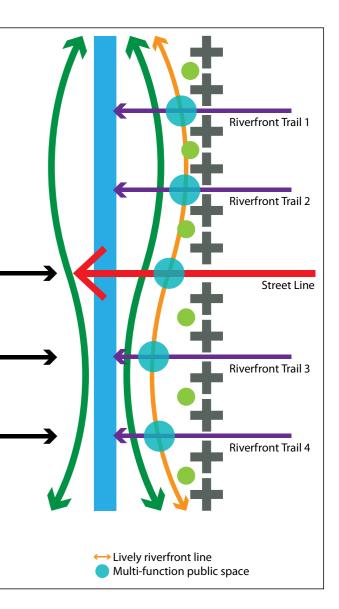


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# CURRENT

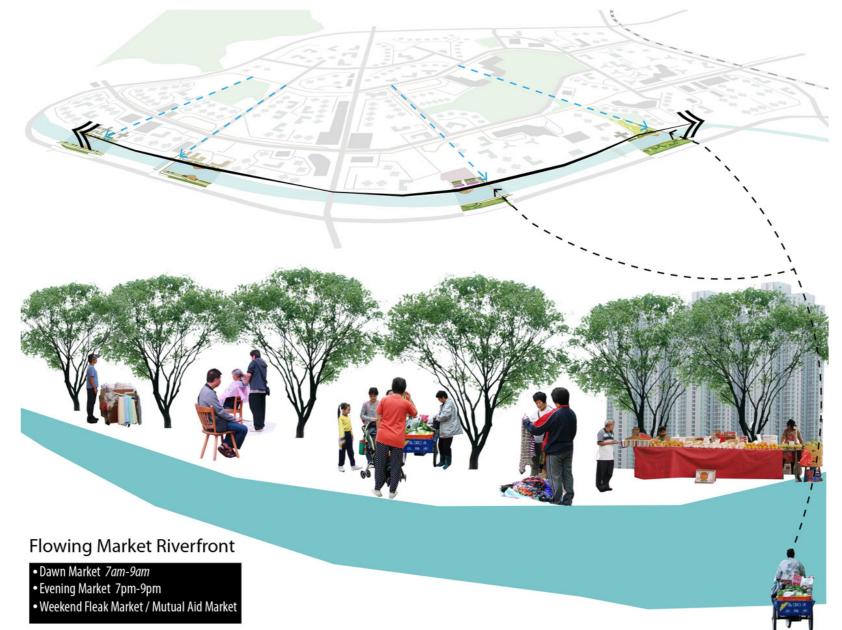


# FUTURE



# Design - Riverfront





# Design - Riverfront

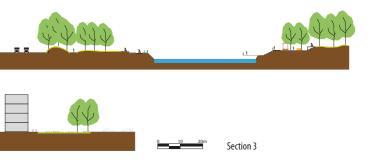


Section 2





# Extension of Park



# **Riverfront - Flexibility**

STAKEHOLDERS



## **STAKEHOLDERS**

#### Coordinator

-- Independent Organization of Opening TSW Association

#### **Public sector**

- -- Local Government / HK HA
- -- Foundation

#### Private sector

- -- Planners / Architects
- -- NGOs

#### Local residents' self-made organization

- Vendor Union
- Market Supervisor Group

# **PLAN & DESIGN**

#### Coordinator

-- Independent Organization of Opening TSW Association

#### Investors

- -- Local Government / HK HA
- -- Foundation
- -- Vendor Union

#### Designers

- -- Planners / Architects
- -- NGOs
- -- Vendor Union -- Market Supervisor Group

# CONSTRUCTION

#### Coordinator

-- Independent Organization of Opening TSW Association

#### Self-built program by

- -- Vendor Union
- -- Market Supervisor Group
- -- Local employment
- -- Volunteers

## MANAGEMENT

- Coordinator
- -- Independent Organization of Opening TSW Association

### **Operate markets**

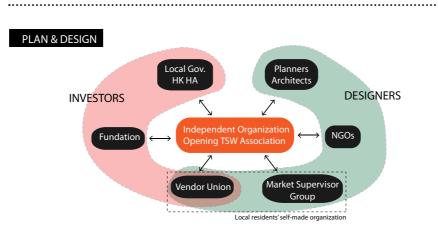
-- Vendor Union

### Supervise markets

-- Market Supervisor Group

## Two groups have agreement on:

- 1) Time schedule of different markets
- 2) Market location and number of vendors
- 3) Cleaning arrangement & noise protection









- Market location and number of vendors
- Cleaning arrangement & noise protection

.....

# Riverfront Scenario 1: Flowing Market Riverfront

In this scenario, a flowing market would be built up to meet the demand of low-income residents. It needs small investment and residents participation. This scenario would solve the urgent problems in TSW

# Riverfront Scenario 2: Flowing Market Riverfront + Water enjoyable Riverfront

In this scenario, not only low-income residents would benefit from the flowing market, but also middle and high-income residents could benefit from the water enjoyable riverfront. So, the riverfront would become lively and attractive. This scenario would improve the image and living quality of TSW.

# Riverfront Scenario 3: Flowing Market Riverfront + Water enjoyable Riverfront + HSK Riverfront development

In this scenario, when TSW has a lively and attractive riverfront, it would promote the development of the other side of the riverfront in HSK. Finally, both TSW and HSK would benefit from the riverfront. This scenario is a long term vision for TSW, as well as a stategy to link TSW with future development in HSK.



#### Now

## Riverfront Scenario 1

## Riverfront Scenario 2

**Riverfront Scenario 3** 

# Conclusion

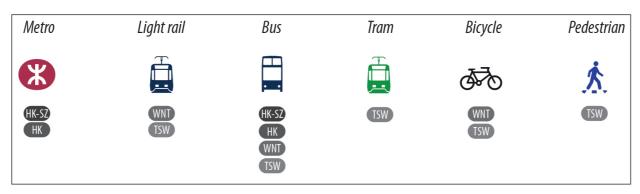
# **DESIGN GUIDELINES**

Bring urban sense and spatial hierarchy into TSW with mix-function & human-scale design.

## Diverse & Affordable Transportation

Diverse public transport connections on different scale

Encourage affordable transportation modes without pedestrian connection barrier on local scale



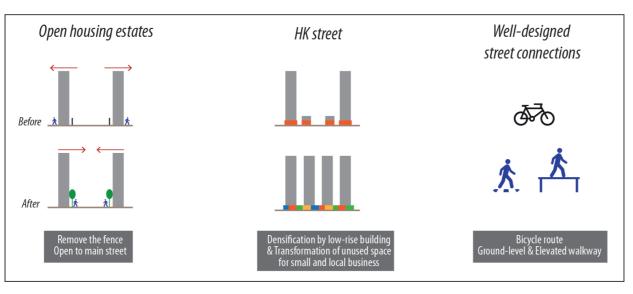
## Multi-function Public Space

Public space for leisure activities, economic activities and social activities at different time for various demands



## Lively Street life

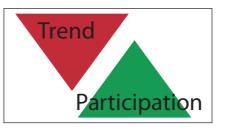
Open the closed-in housing estates to main street Learning from tradition HK street: mix-function & flexible space, diverse street connections



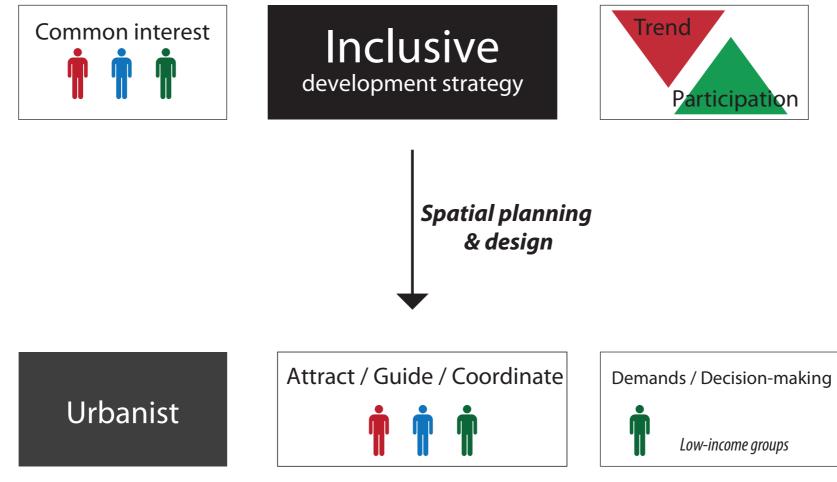




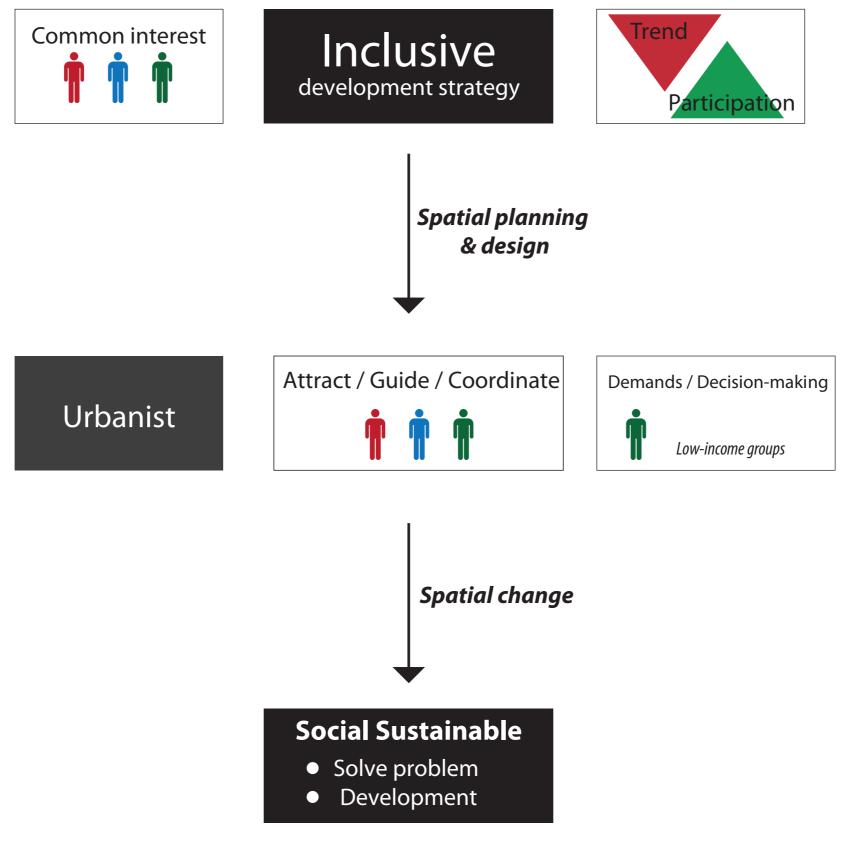




# Conclusion



# Conclusion



# **OPENING THE BESIEGED CITY**

Exploring an inclusive development strategy for Tin Shui Wai in Hong Kong



# Thank you!