

# Making a real city for everyone:

spatial transformation towards inclusiveness and vitality

— Dalang as study case



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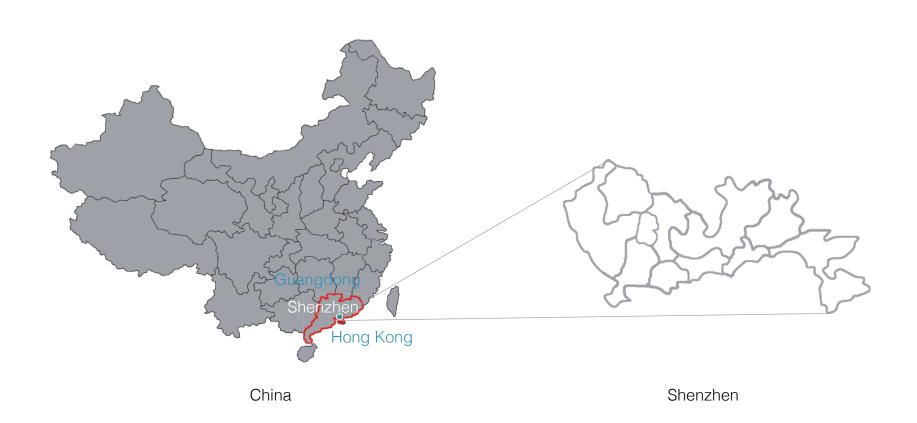
30 June 2016

Delft, The Netherlands

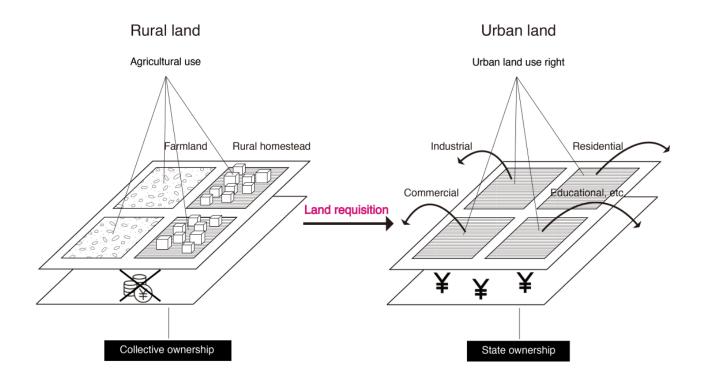


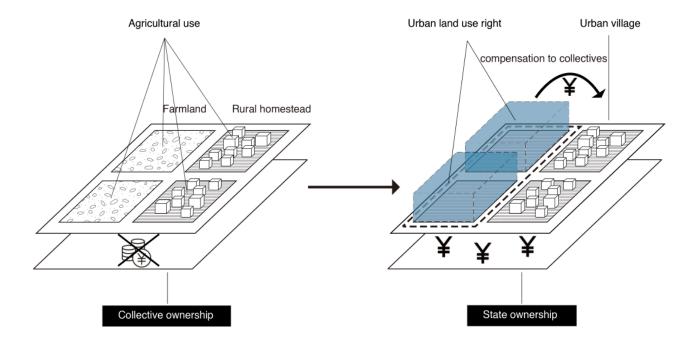


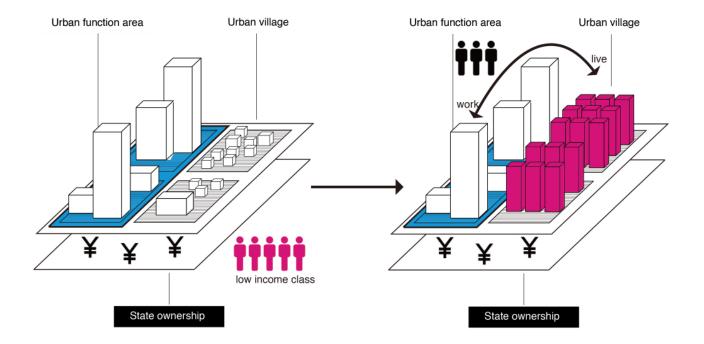
# Shenzhen: a showcase of China's development











#### China in a transition period



#### What is China's 'new normal'?

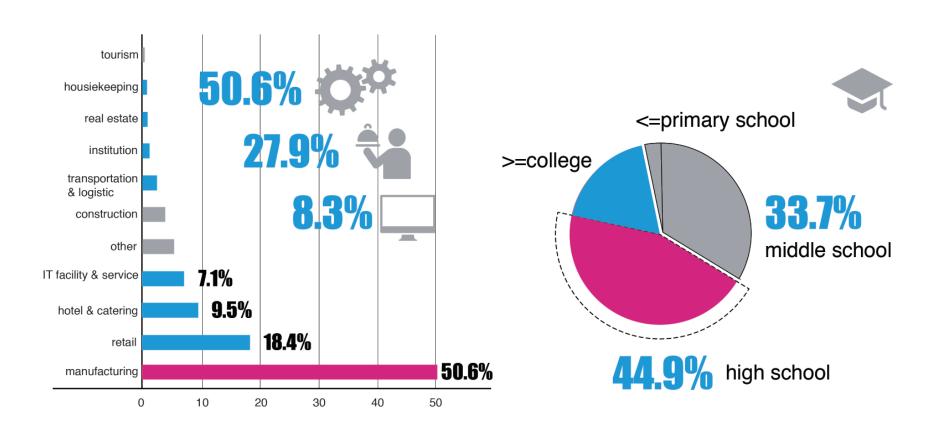


"New Normal": better quality economic growth (7%)

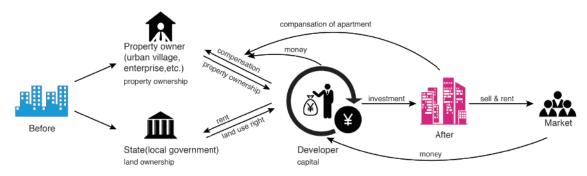
#### Vulnerability of young migrants facing industrial transition

#### Employment structure

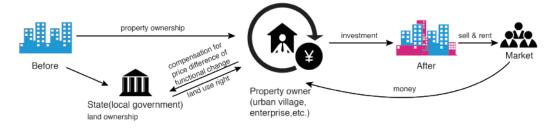
#### **Education level**



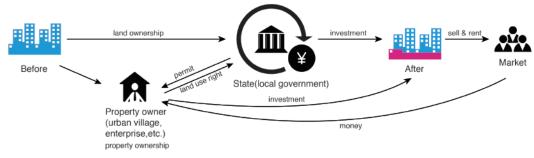
#### "Urban Renewal Unit Plan" in Shenzhen



#### Demolition-reconstruction

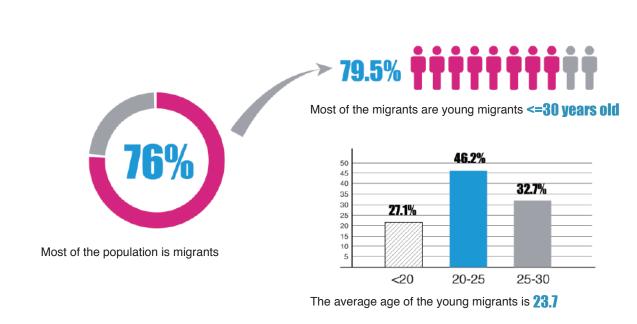


#### Partly reconstruction with functional change



Comprehensive improvement/ urban regeneration

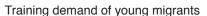
#### Young migrants are the majority of Shenzhen's population & their future employment expectation

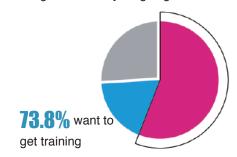


Future job expectation of young migrants



**69%** want to be self-employed, **38.2%** want to start their own businesses in the coming year



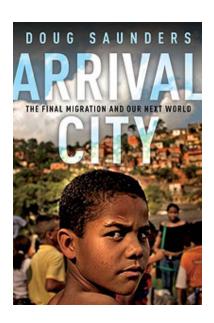


**55.9%** want to obtain knowledge of self-employment

How to provide more work opportunities for young migrants?

How does it relate to space, urban planning and design?

#### City of inclusiveness



"Urban village is the arrival city where the rural-urban migrants can set their foothold."

"Urban village is a place of transition, and a well-functioning arrival city can provide more opportunities for upward mobility."

Saunders

# How does the inclusiveness of young migrants relate to space?

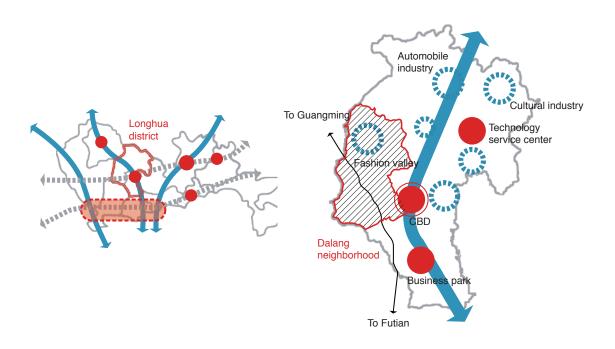
# **Affordable work-related space**

- -Target group in terms of "affordable": migrants, fresh graduates and other career starters
- -Range of work-related space
- 1. Workplace
- 2. Space related to work services (low-cost training, legal service, etc.)

Research question

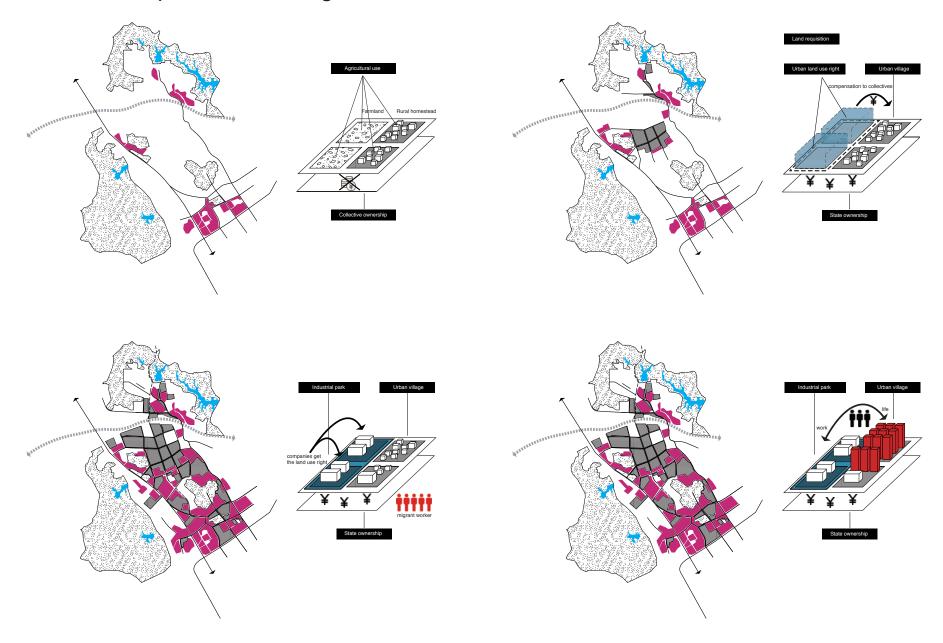
How to provide **affordable work-related space** to facilitate the career development of **migrant workers and career starters** in **urban renewal** process during a transition period?

## Dalang neighborhood in Longhua district



- 1 Manufacturing base facing industirial transition
- 2 Over 95% of the population is young migrants
- 3 Not highly developed, still have **notential** to deal with the problem

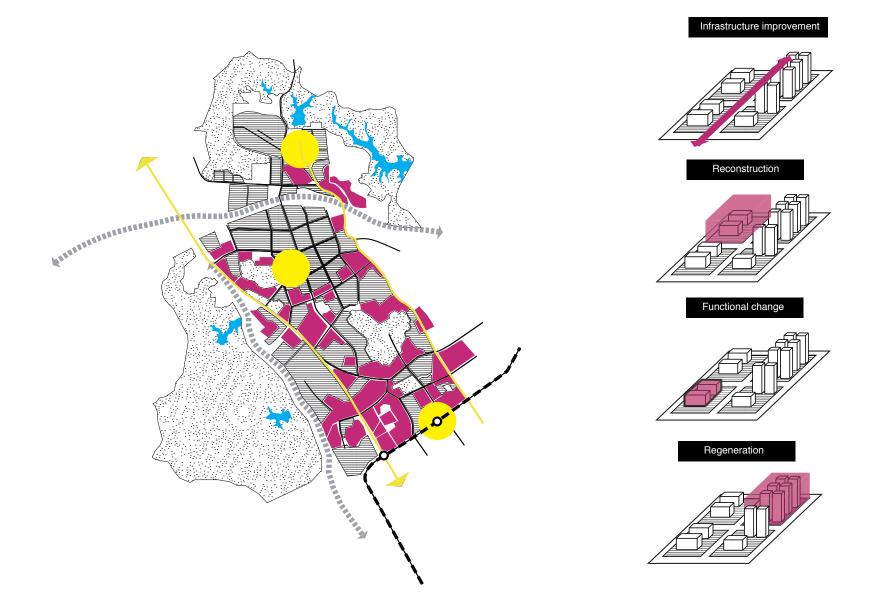
# Historical development of Dalang



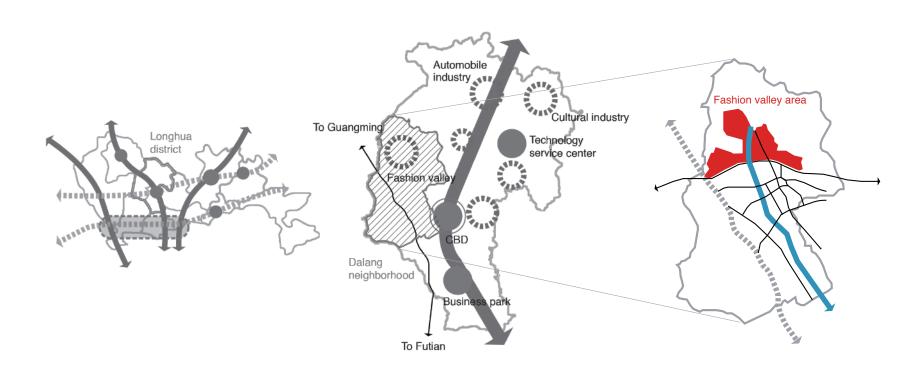
# Urban pattern



# Urban renewal in Dalang



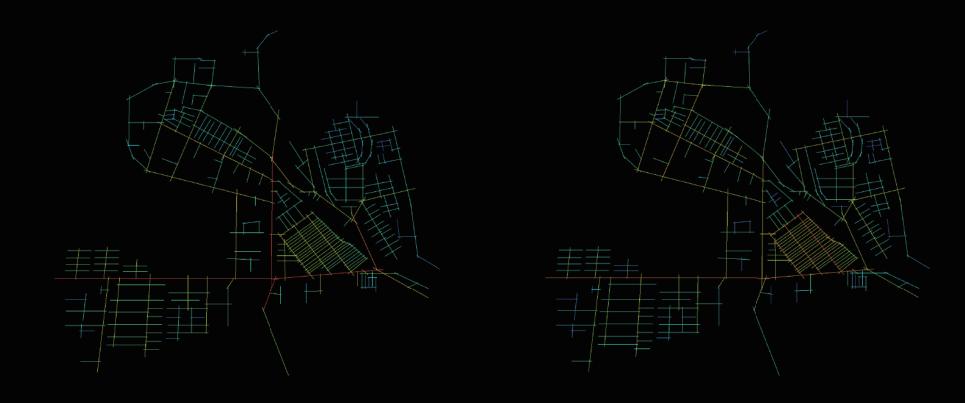
## Fashion vallege area in Dalang



# Spatial analysis



# Global (radius=n) & local integration of streets (radius=3)





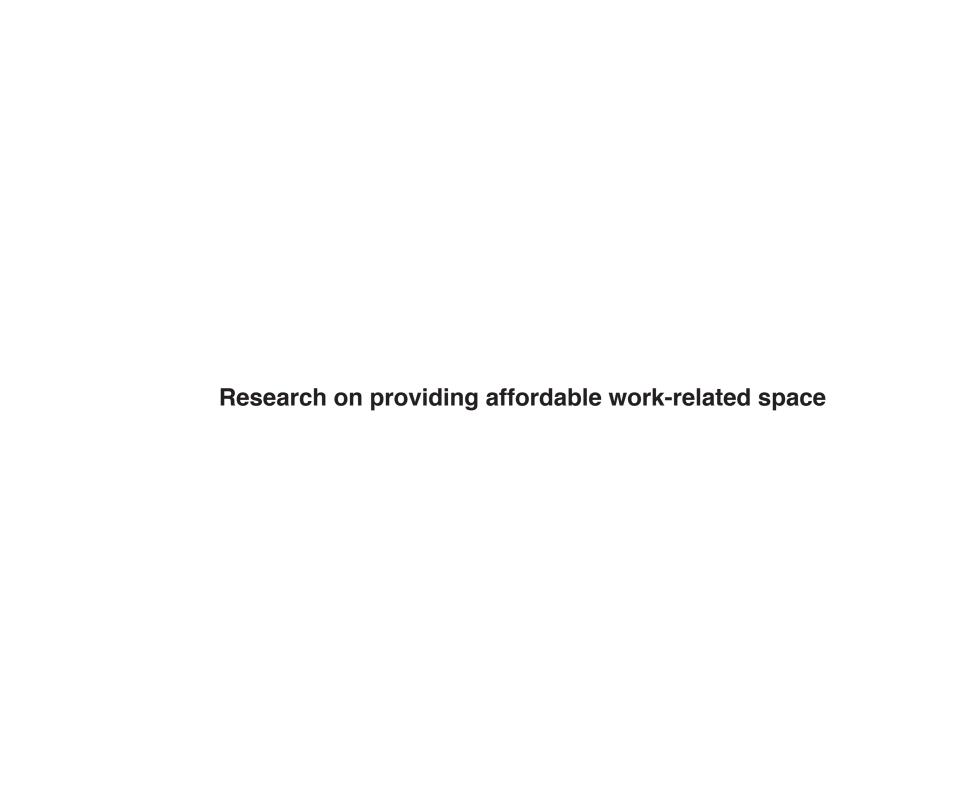


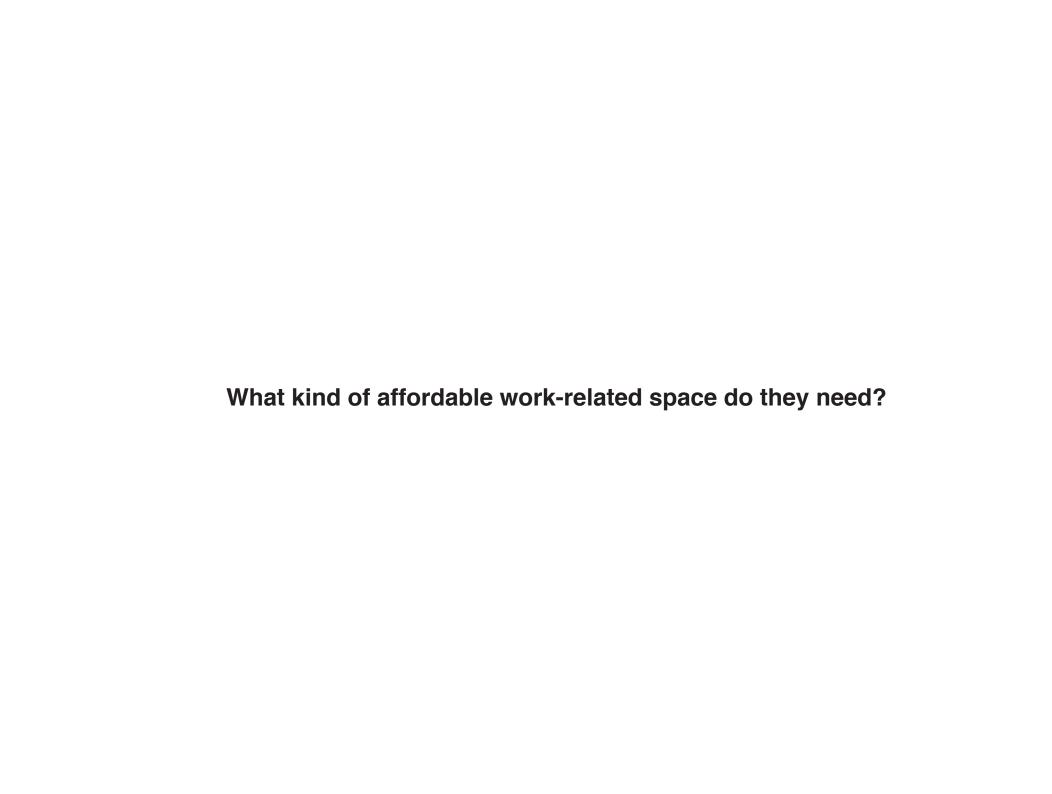












#### Types of affordable work-related space

- 1 Retail store & vendor's space
  - -Catering
  - -Grocery
  - -Clothing & clothing accessory
  - -Sporting goods, hobby, book, and music stores
- **2** Workplace with low rent
- 3 Space for **work-related services** provided by municipality, NGOs and social enterprises

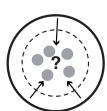
## Retailing

Clustering

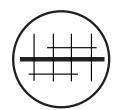
Surroundings

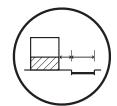
**Street network** 

Building footprint, road & sidewalk



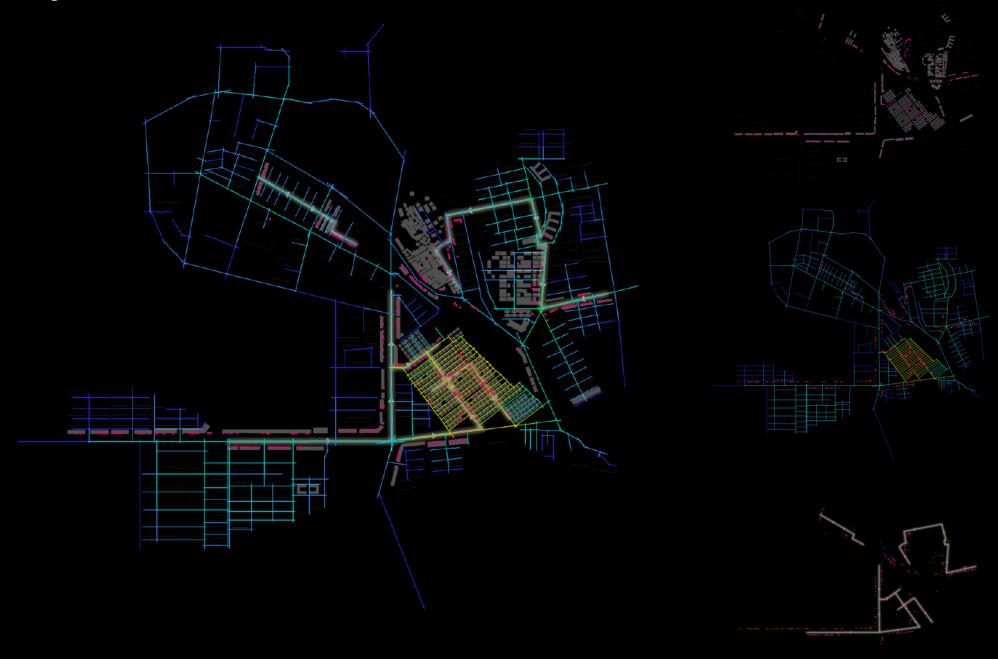




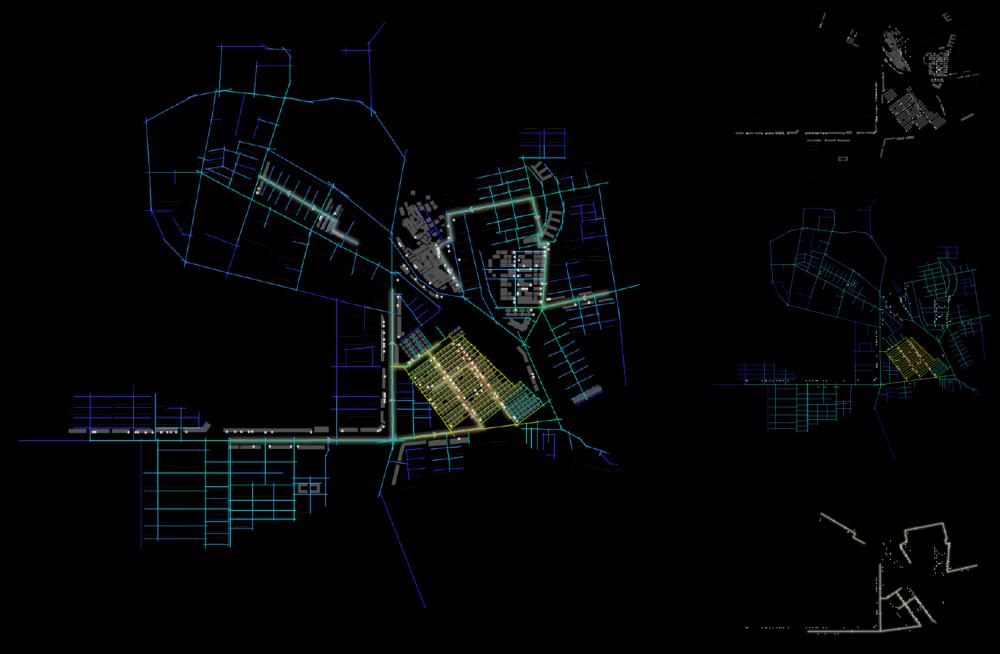


	Clustering	Surroundings	Street network	Building footprint, road & sidewalk
Catering store	Clustering with similar stores	Complementary stores Tendency to workplace & other stores Residence Workplace Minimum turns to workplace & maximum to residential area	Locate in streets with high between-ness  Streets with exposure to other streets	Large footprint, narrow roads and wide sidewalks  More than one frontage
Grocery store	Clustering with similar stores	Workplace Complementary stores  Tendency to workplace & other stores	High between-ness  Streets with exposure to other streets	Large footprint
Clothing stores	Significantly high clustering rate	Workplace Complementary stores  Tendency to workplace & other stores	On streets with high potential for passing traffic	Narrow roads with wide sidewalks
Sporting goods, hobby, book & music stores		Locate far from bus stop	Streets with exposure to other streets	
	Clustering with similar stores	No important attraction towards other types of retailers		Large footprint, narrow roads and wide sidewalks

# Catering



# Grocery



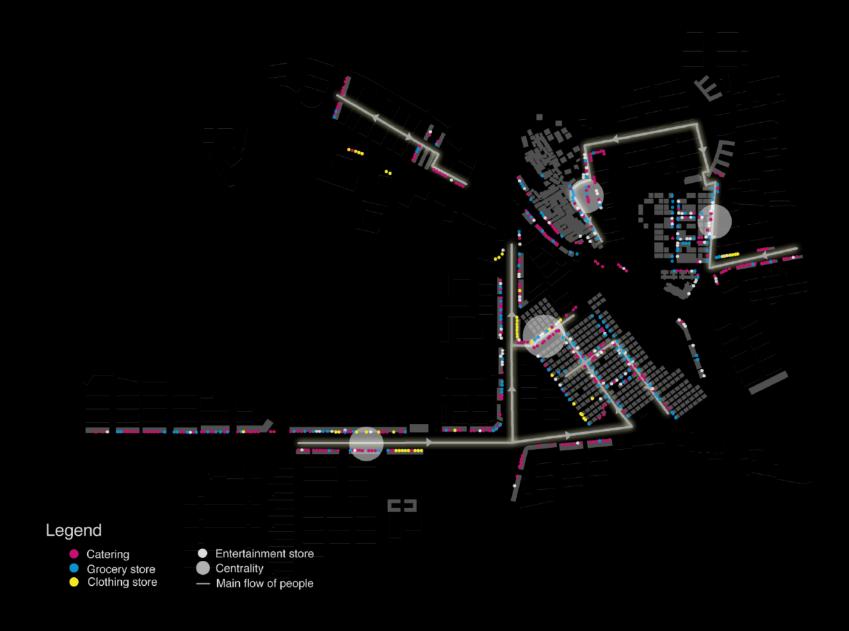
# Clothing



# Entertainment-related retailing



# Overall retailing configuration

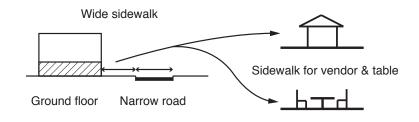


## Spatial feature

#### **Catering store**

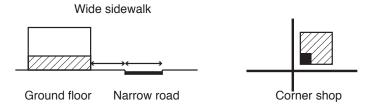


**Grocery store** 



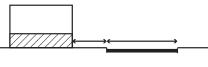


**Clothing store** 





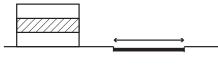
Wide sidewalk



Ground floor Wide road with more passing traffic

Entertainment (sporting, music, etc)





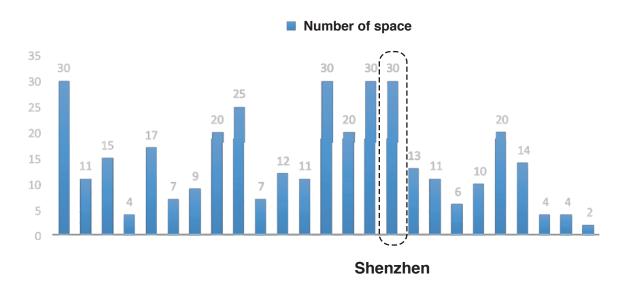
Upper floor Wide road with more passing traffic

# Summerized retailing configuration principles in this context

	Spatial configuration feature	Spatial condition	Overall conclusion	
Catering store	-Concentrate in urban village; -Positive relation with street integration; -Along the routes from industrial parks to urban villages.	-Ground floor; -Wide sidewalk & narrow road.	Tendency of clustering;     Strong positive relation with street integration;	
Grocery store	-Concentrate in urban village; -Positive relation with street integration; -Along the routes from industrial parks to urban villages.	-Ground floor; -Wide sidewalk & narrow road; -Corner shop.	3. Concentration along the routes between industrial parks and urban villages;  4. Isolated fashion valley and central part fragmented the area.	
Clothing store	-High rate of clustering; -Concentrate near fashion industry parks; -Locate on roads with large amount of passing traffic.	-Ground floor; -Wide sidewalk & wide road with more passing traffic.		
Sporting goods, hobby, book & music store	-Concentrate in urban village; -Surround main gathering spots of commercial activity; -Positive relation with street integration.	-Upper floor; -Wide road with more passing traffic.		

## Low-rent work related space

#### **Number of Group Innovation Space in Chinese Cities**



Low-rent workplace & additional services for starters.

#### Makerspace



Co-working space



**Business incubator** 



Startup cafe



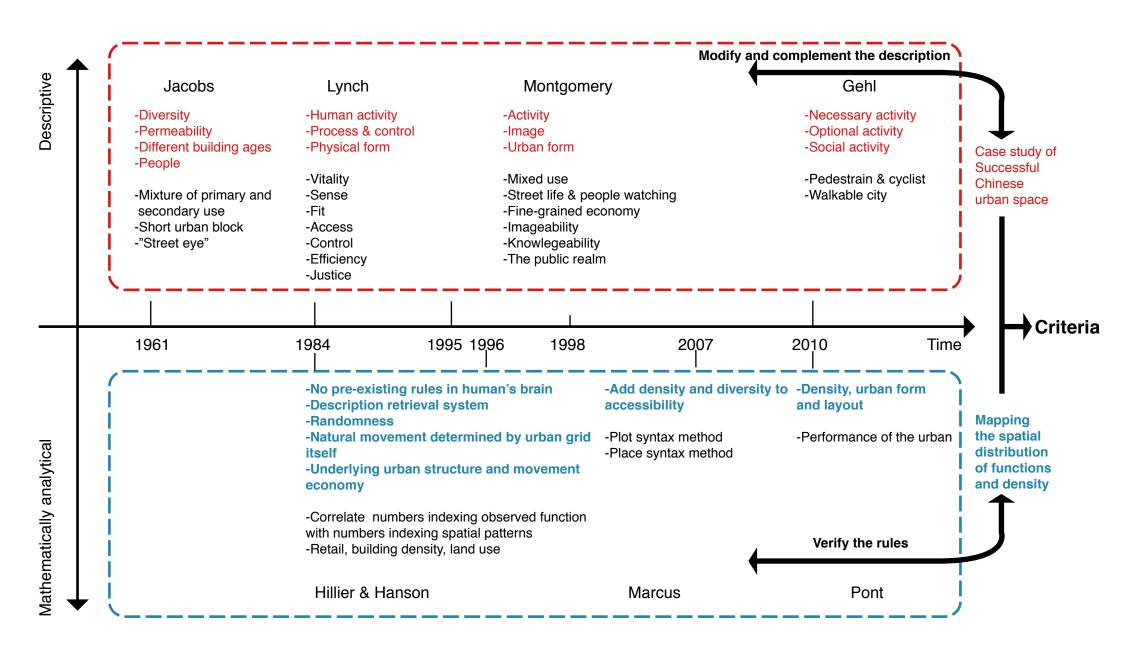
**Startup community** 



## Summerized principles of low-rent work-related space

Type of affordable workplace	Target group & Management characteristics	Stakeholder	Location	Spatial distribution	Functional demand & Spatial feature
1.Makerspace /Hackerspace	-Maker: people with the same interests to make something -Membership & self-governance	-NGO, individuals			Lecture & activity  Facility  Individual desk  Service
2.Co-working space	-Starters: long-term lease, short-term lease, pass-byers -Sharing facilities and services	-Developer -Private investor			Conference room Fixed workplace Individual desk
3.Business incubator	-Starters: fixed tenants for certain years (1-3years) through application -For enterprise incubation	-Municipality -Private investor			Service & Entertainment  Fixed workplace  Conference room  Service  Facility
4.Startup cafe	-Starters:short-term lease, pass-byers -Meeting people, interaction and sharing information & knowledge	-Private investor (service company)			Cafe  Individual desk  Conference room Apartment
5.Startup community	-Starters & entrepreneur in higher status -Long-term apartment lease with free access to workplace and facilities -Build up interpersonal connections	-Developer -Service enterprises			Public facilities (Library, gym, etc.)

What kind of urban environment can facilitate the long-term operation of these spaces?

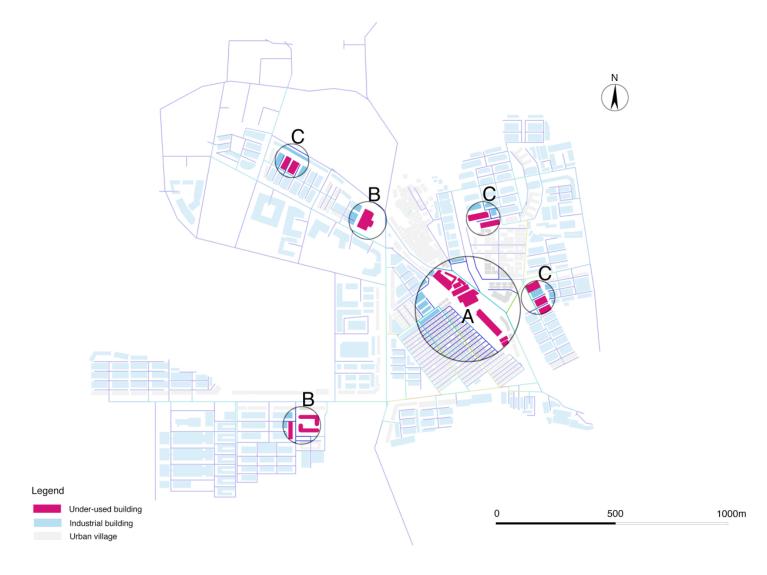


#### **Principles**

- 1 Mixture of primary and secondary use
- 2 Fine-grained street network for pedestrian
- 3 Attractive **public space**



## Potential spatial resources





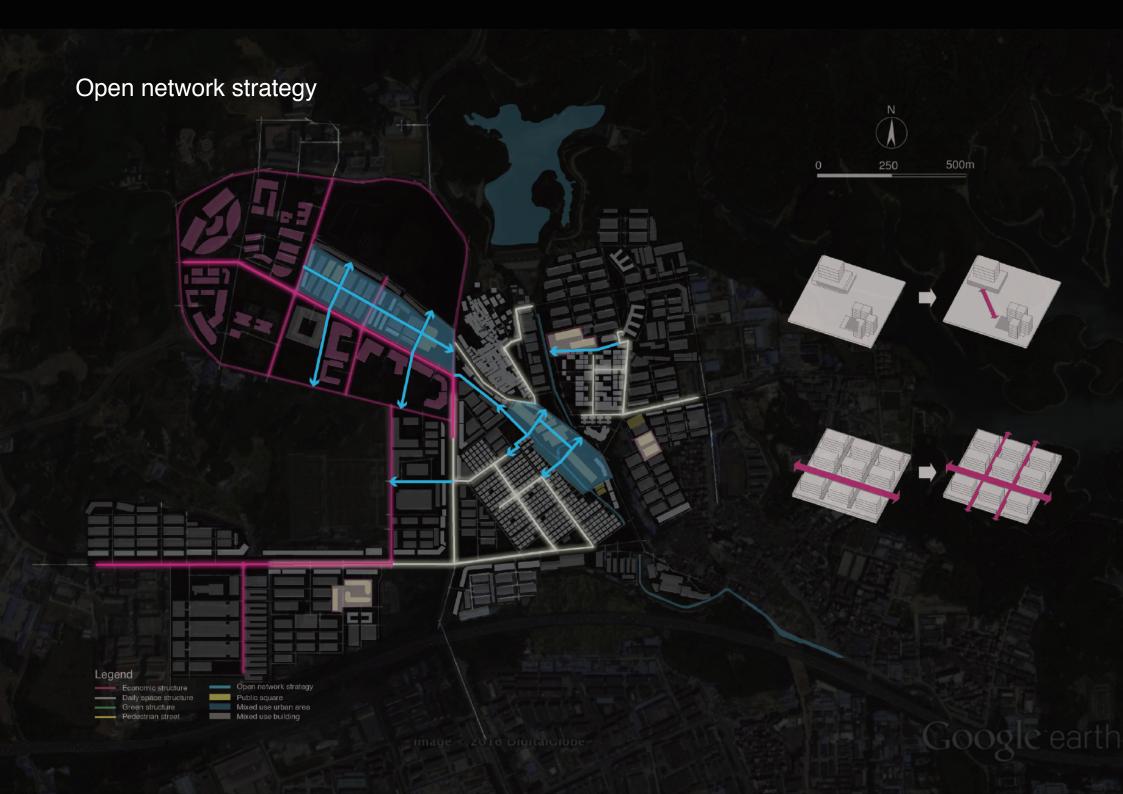
#### Vision

- **1** Affordable work-related space system:
  - -Space for small businesses in retailing;
  - -Space for starters in creative industry related to fashion design, etc;
  - -Space for training and other public services related to work.

- **2** Vibrant urban environment:
  - -Production oriented space with cultural and creative activity;
  - -Lively space for daily consumption;
  - -Green walking system along waterfront.





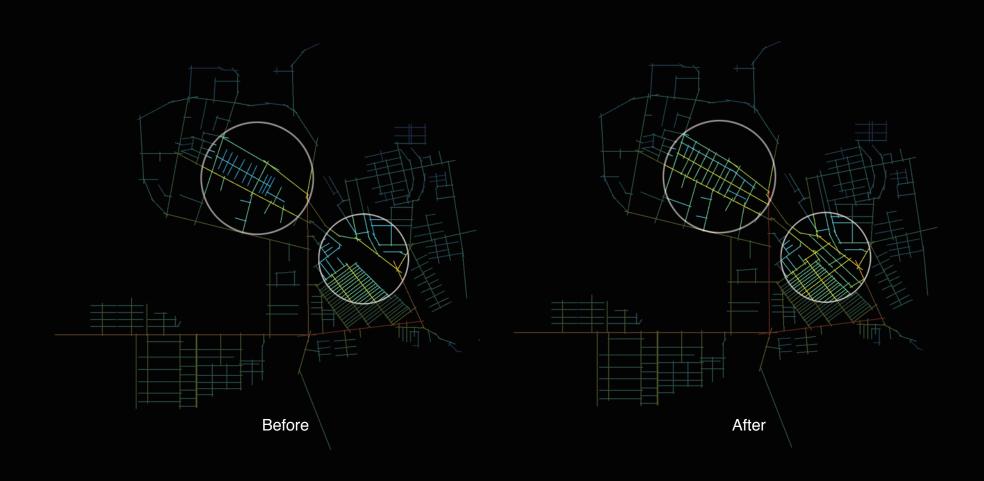


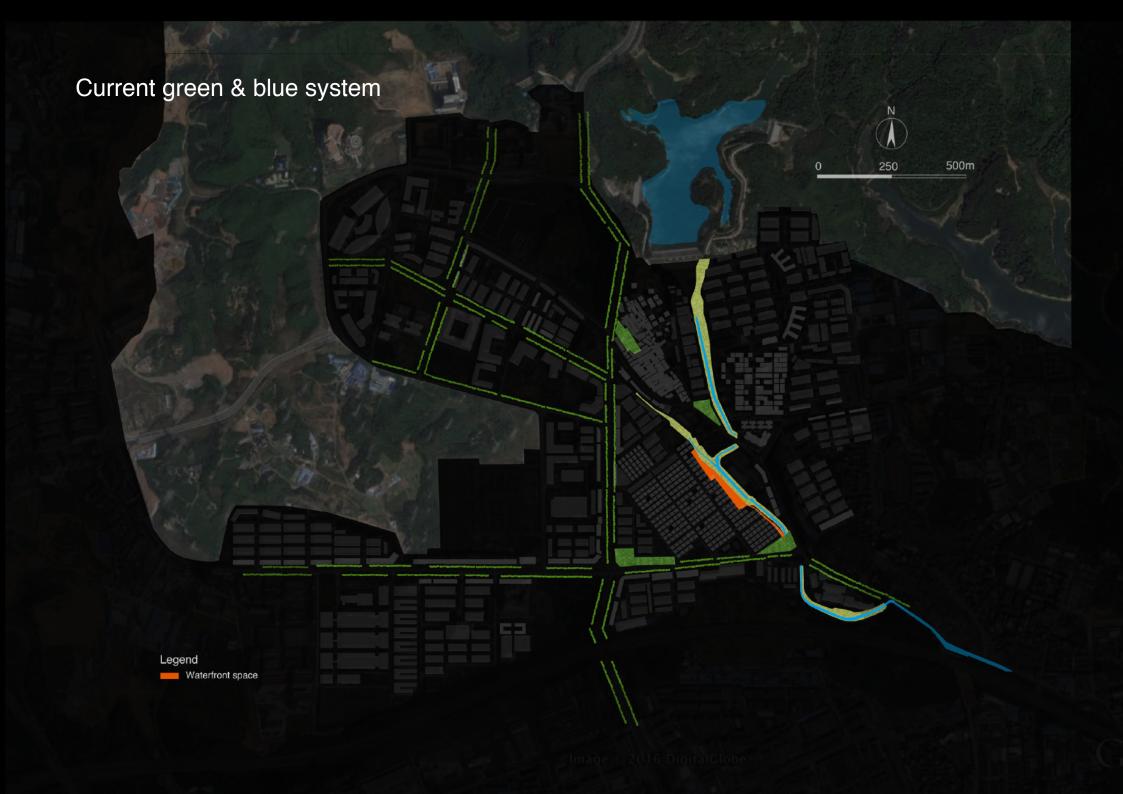




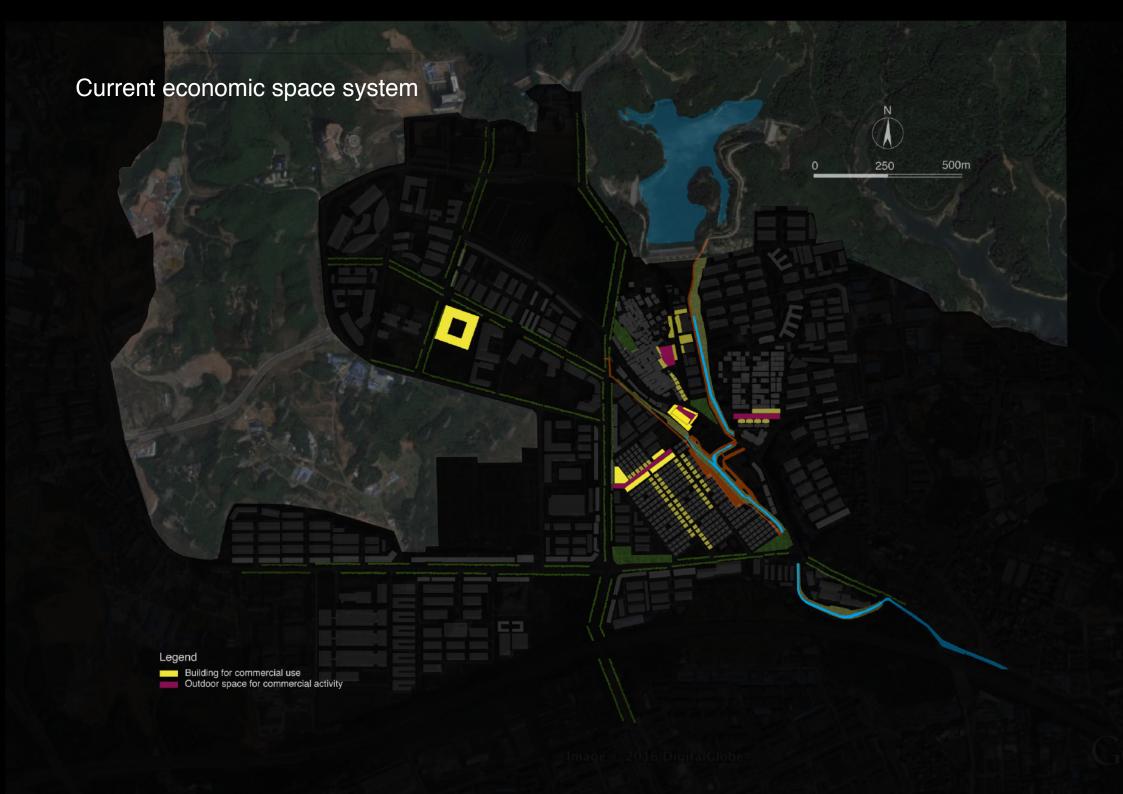


# Street integration comparison











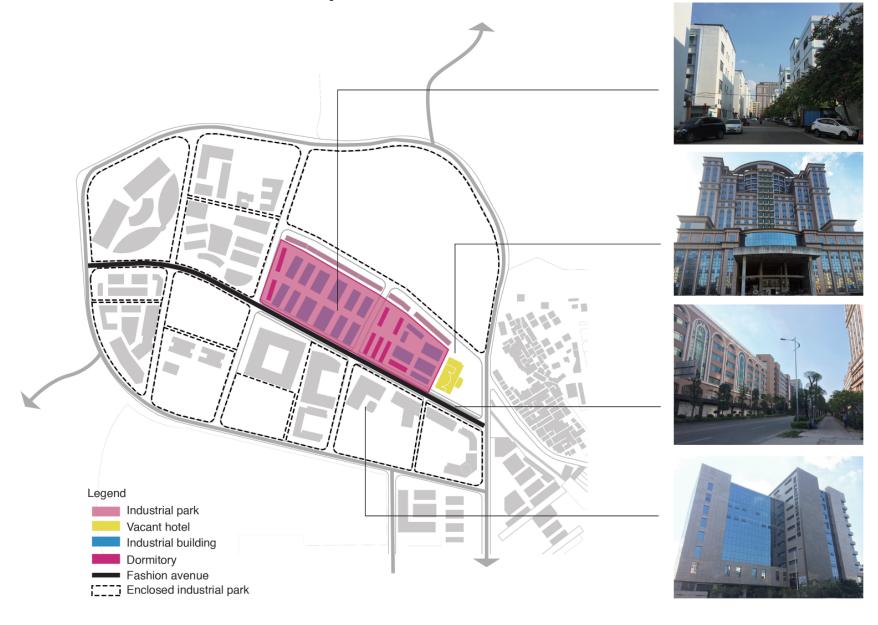




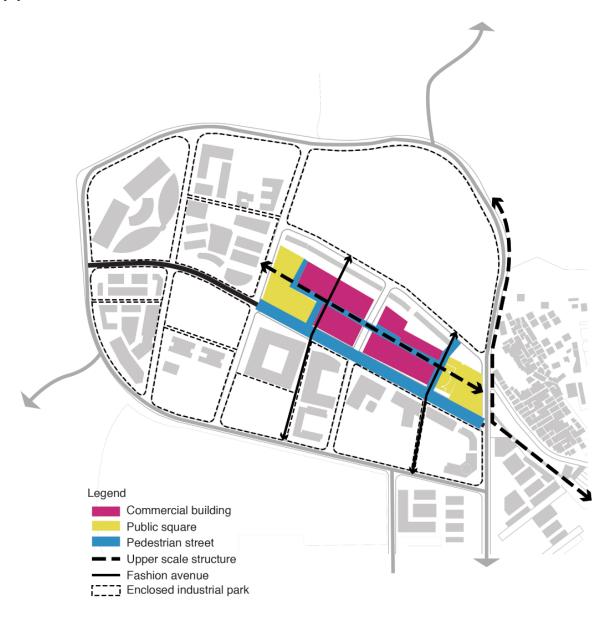




### Current situation of fashion valley



#### Upper scale structure & functional demand for a common vision



#### ■ Commercial & residential development

- -Catering
- -Hotel
- -Financial service
- -Apartment

#### ■ Public service

- -Exihibition/ fashion show
- -Conference
- -Information

#### ■ Affordable work-related space

For starters into retailing:

- -Retail stores
- -Creative market

For starters into creative industry:

- -Low-rent workplace
- -Public platform for starters

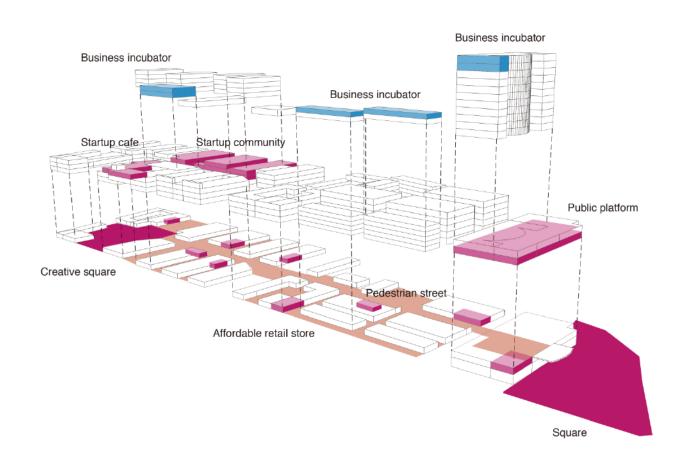
### Plane before intervention



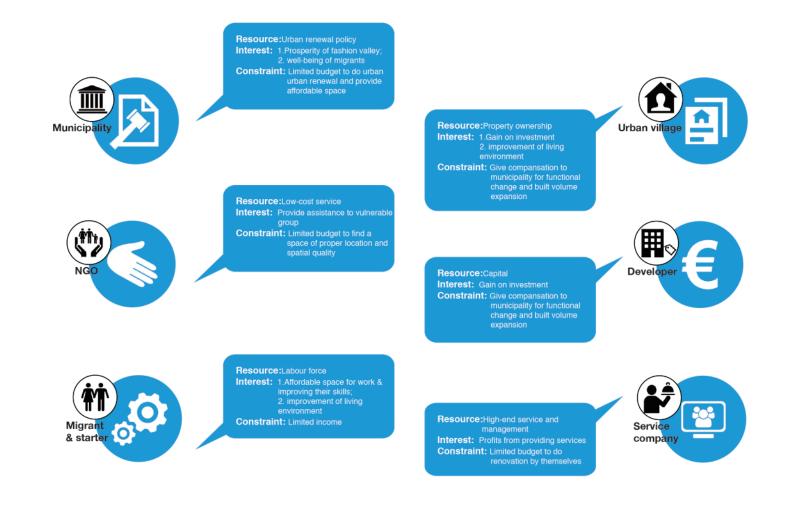
#### Plane after intervention



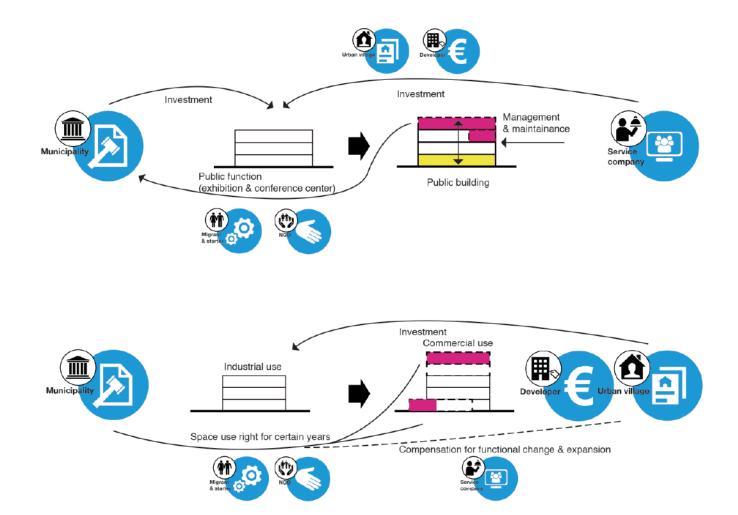
#### Multiple types of affordable work-related space



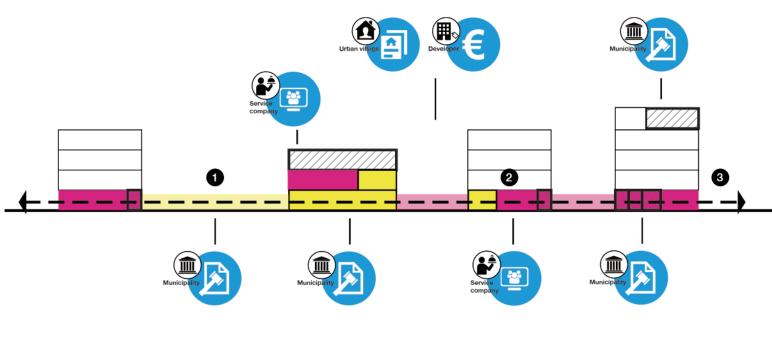
#### Stakeholders: resources, interests and constraints



#### Design & trade-offs between stakeholders



#### Rules for creating a vital urban environment by involving stakeholders



Legend

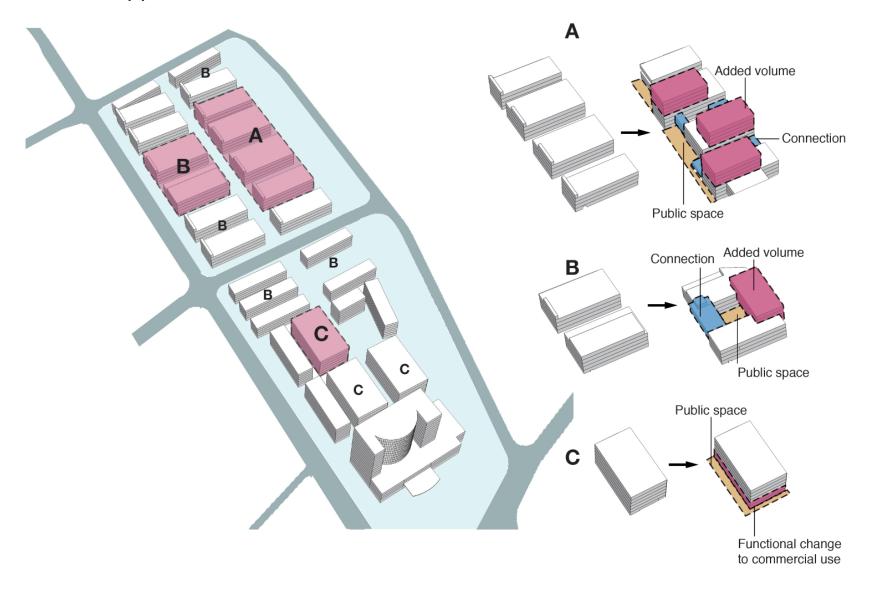
Public space

Commercial space

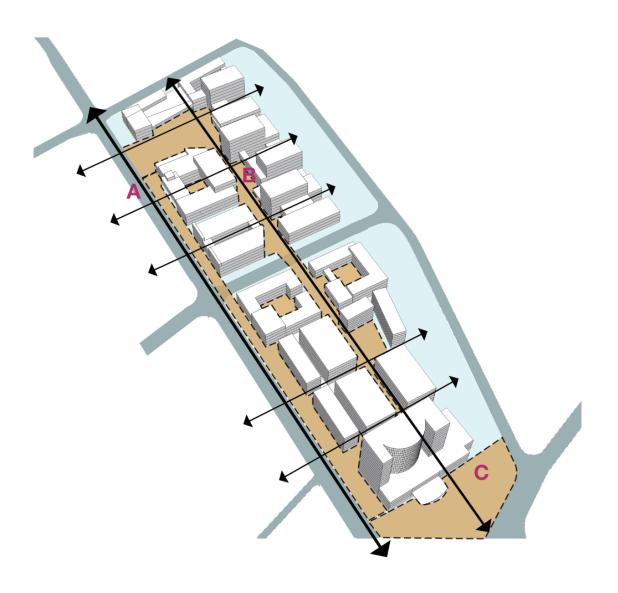
Affordable work-related space

- Public square for multiple activities
- 2 Ground floor for public and commercial use
- 3 Continuous pedestrian street

## Transformation approach



## Public space & open network



#### Fashion avenue before intervention



#### Fashion avenue after intervention



## Key elements and design guidelines



- Widening sidewalk
- 2 Crosswalk & connection
- 3 Public building
- 4 Pedestrian space

## Street in industrial park before intervention

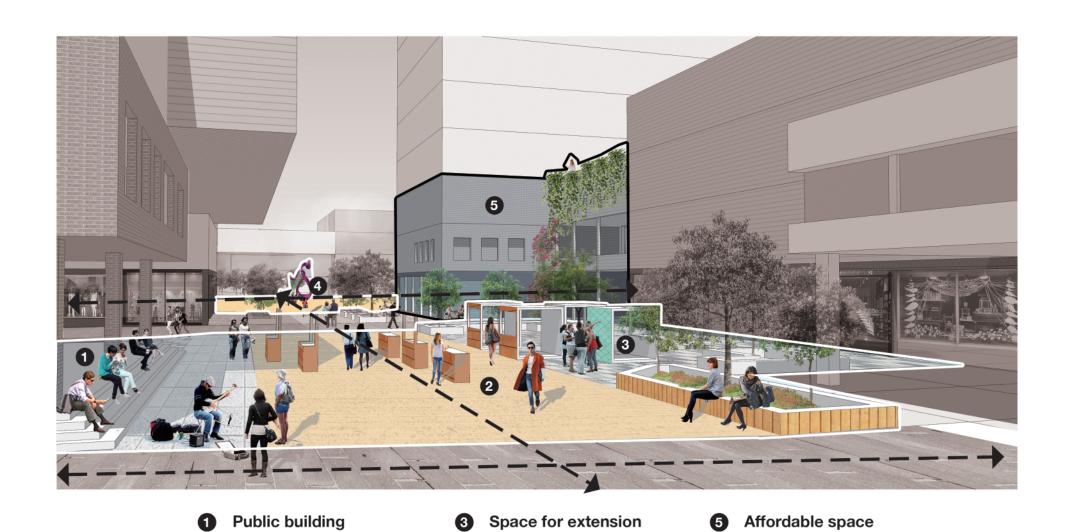


### Pedestrian street after intervention



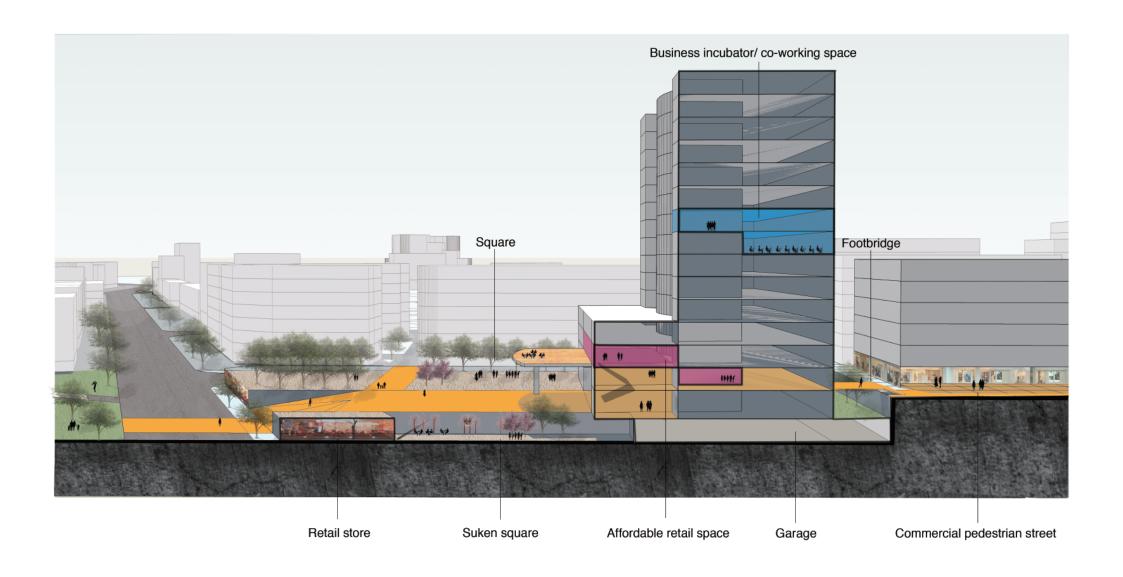
## Key elements and design guidelines

Pedestrian street

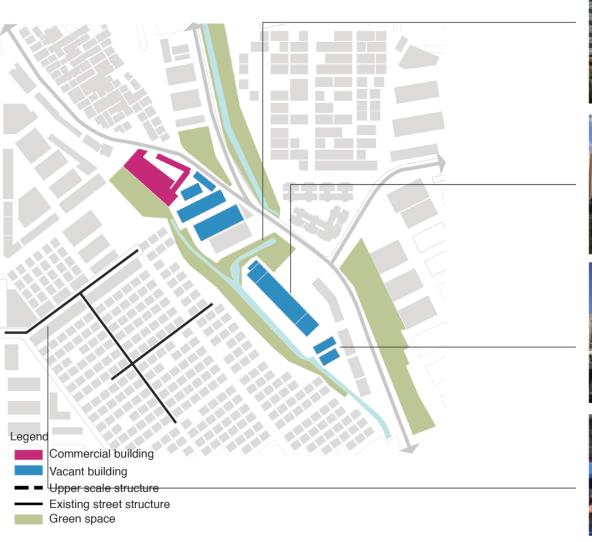


**Creative square** 

### Key elements and design guidelines of vacant hotel



## Current situation of neighborhood center



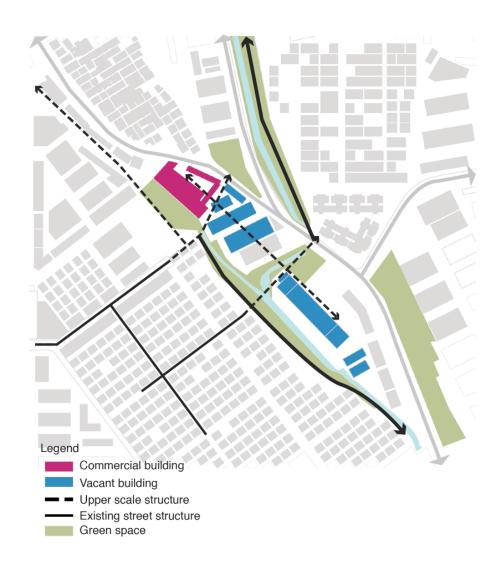








### Upper scale structure & functional demand for a common vision



#### ■ Commercial & residential development

- -Catering
- -Retailing
- -Hotel
- -Apartment, etc.

#### ■ Community center

- -Cultural center
- -Training school
- -Library, etc.

#### ■ Affordable work-related space

For starters into retailing:

- -Retail stores
- -Vendors' space along waterfront pedestrian street

For starters:

- -Low-rent workplace
- -Training school, etc

### Waterfront after intervention

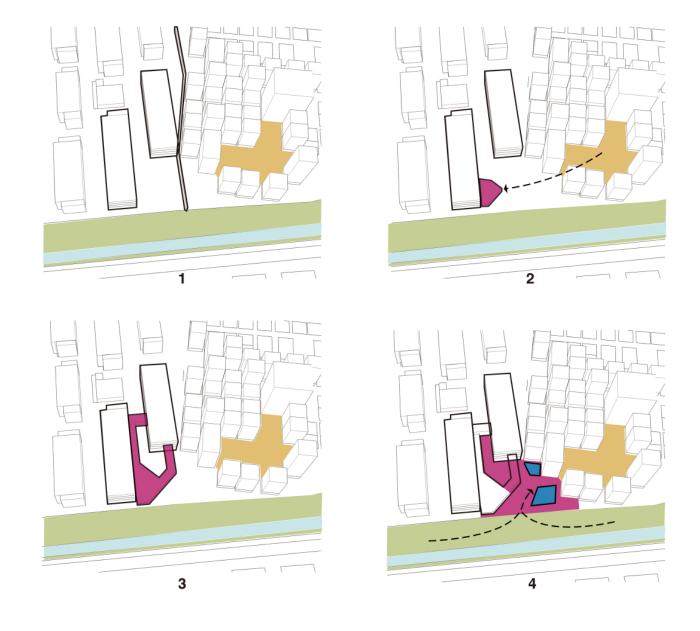


# Key elements and design guidelines



- Renovation of waterfront
- 2 Footbridge & connection
- 3 Building for commercial use
- 4 Flexible space for vendors

## Bottom-up transformation of factories



## Community space after intervention



## Key elements and design guidelines



- Added shared space
- 2 Community public space
- 3 Renovation of waterfront

