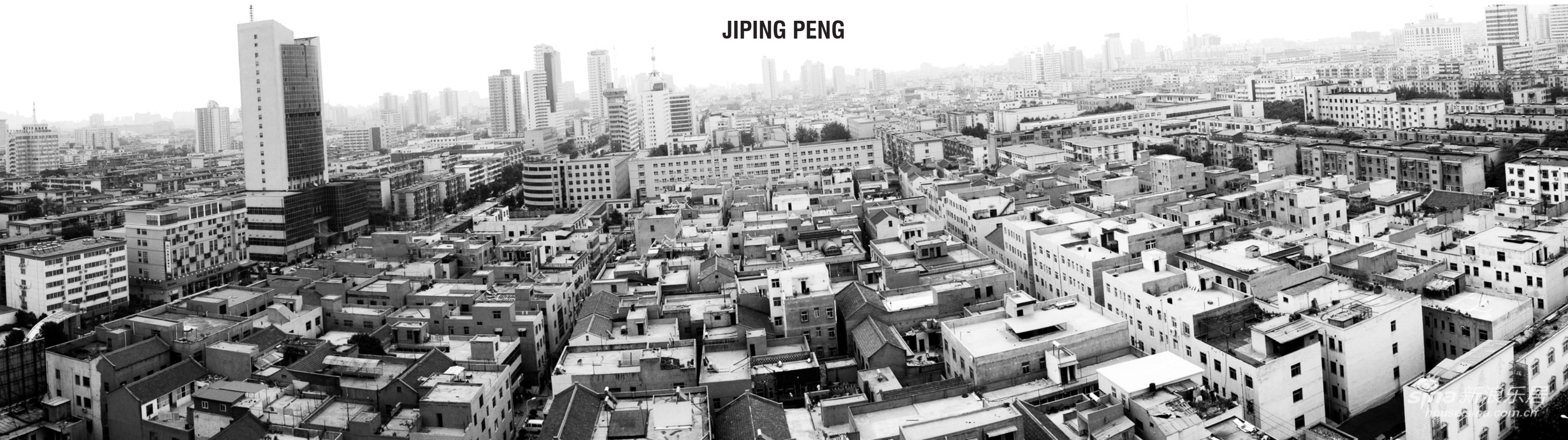


INSIDE-OUT TRANSITION

URBAN VILLAGES TRANSFORMATION STRATEGY IN SHENZHEN CHINA

JIPING PENG

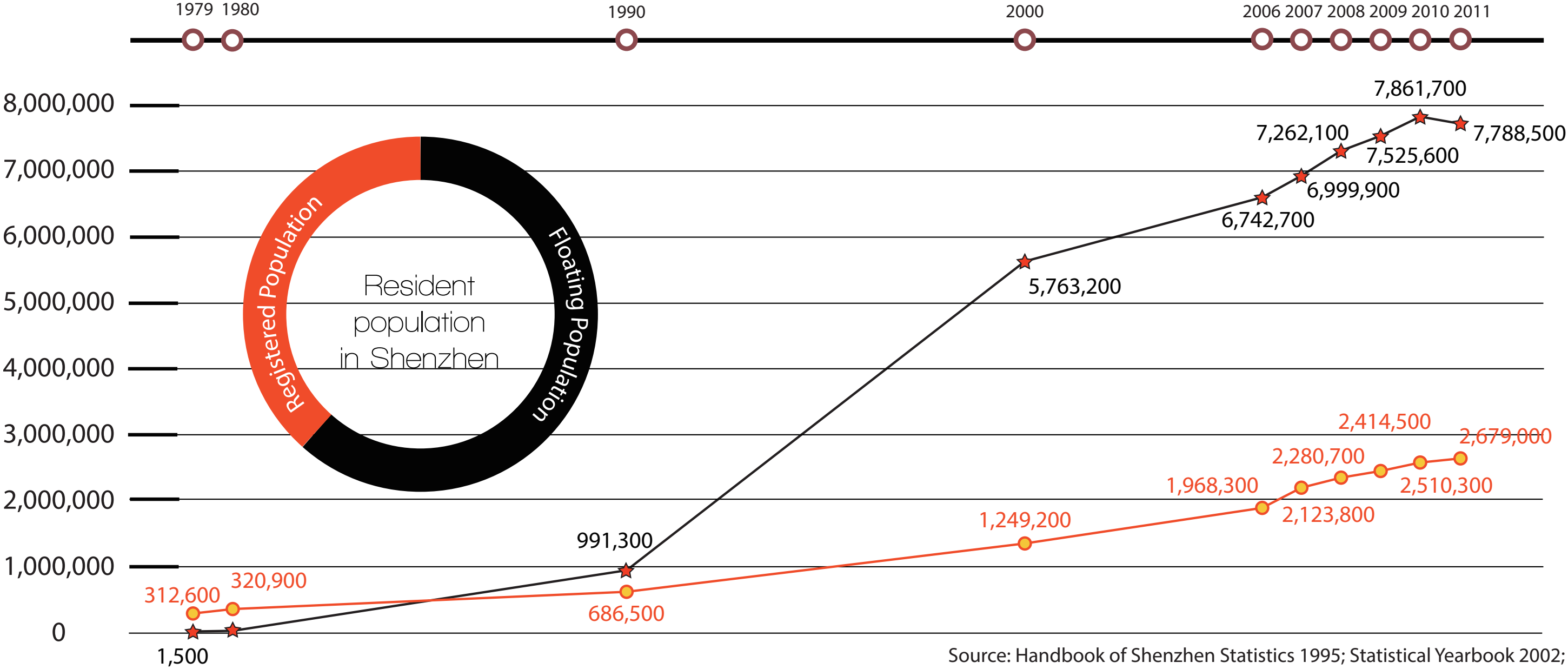


1. INTRODUCTION



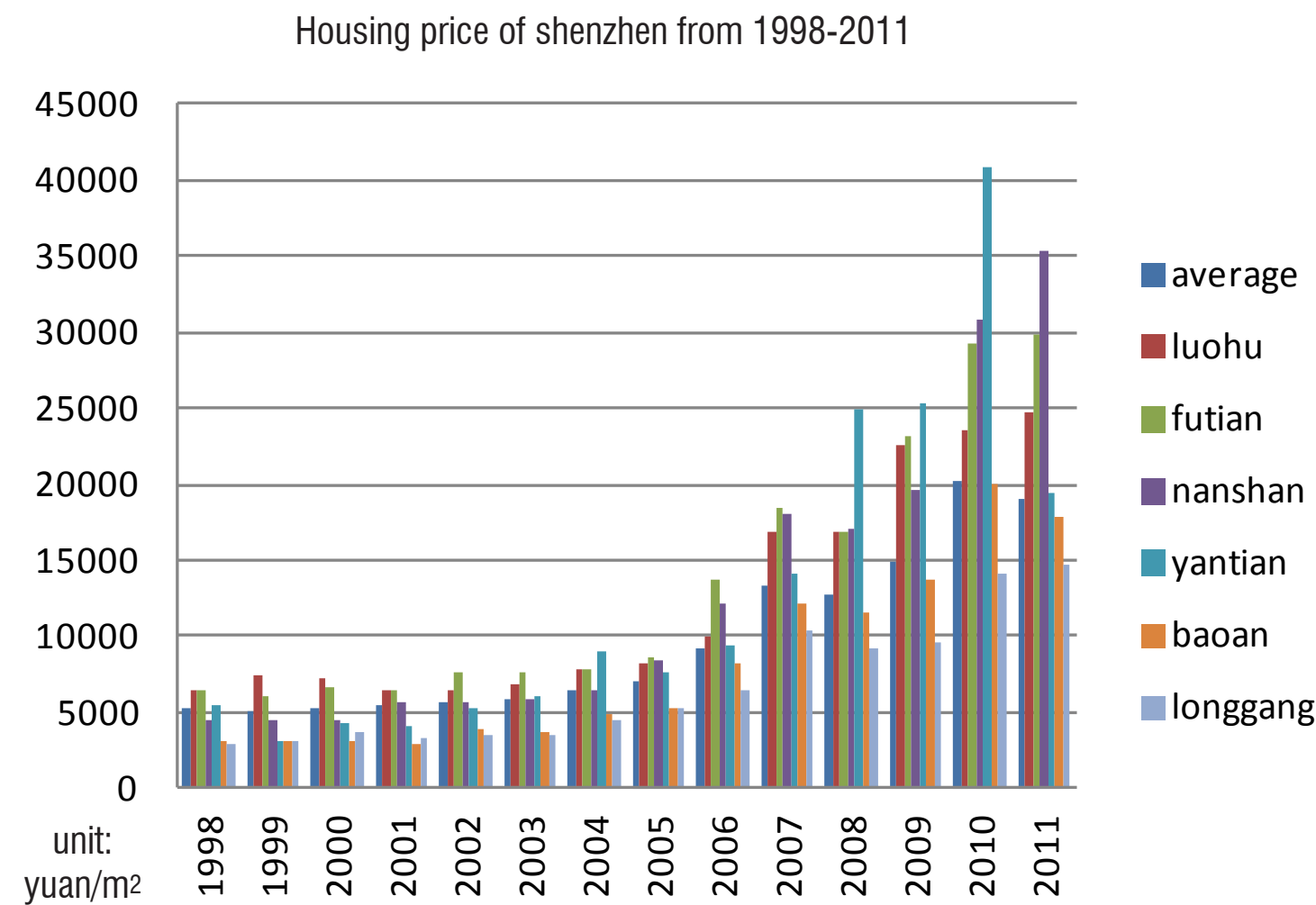
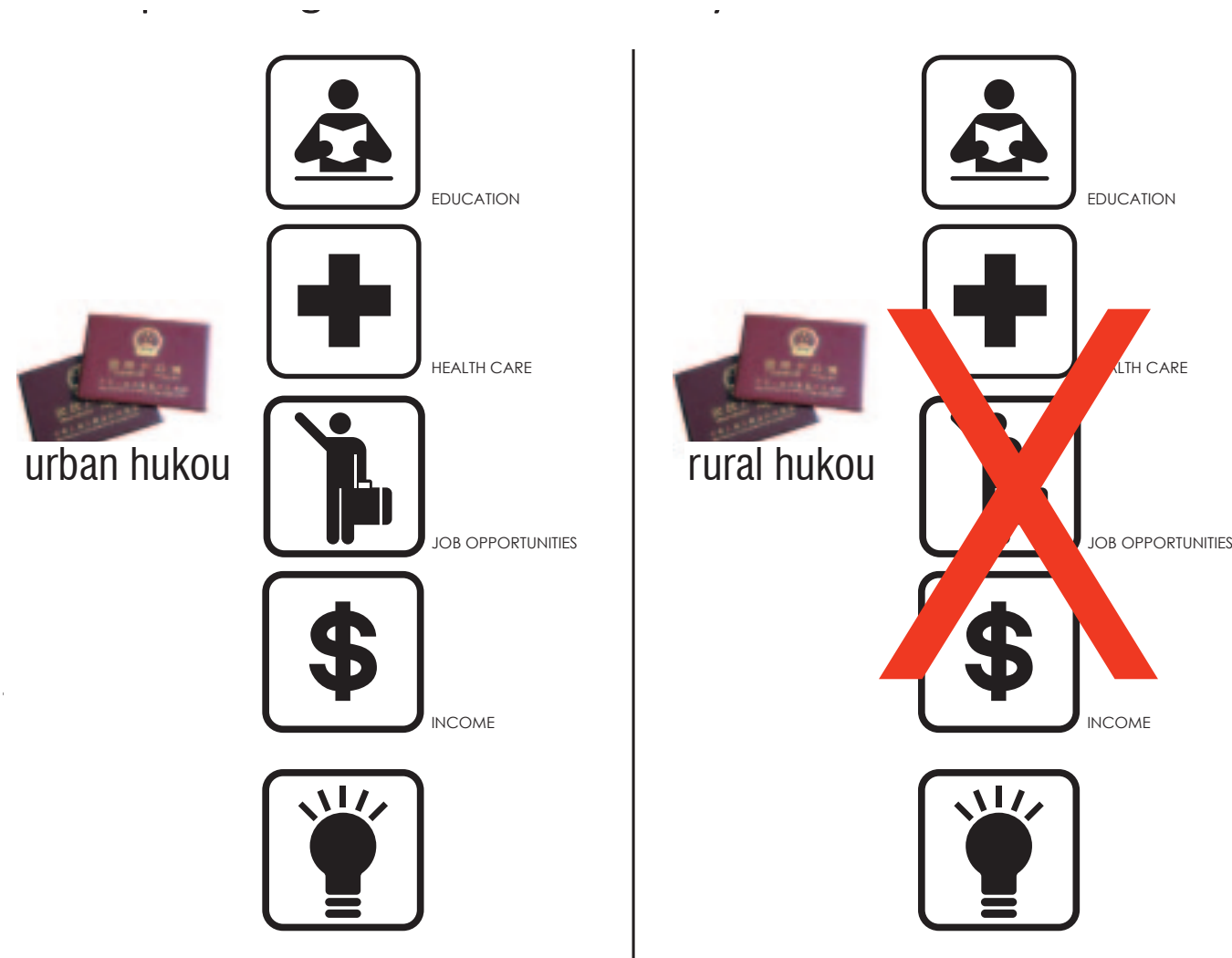
RURAL-URBAN MIGRATION THE TIDE NOBODY CAN STOP

SHENZHEN-MIGRANT CITY

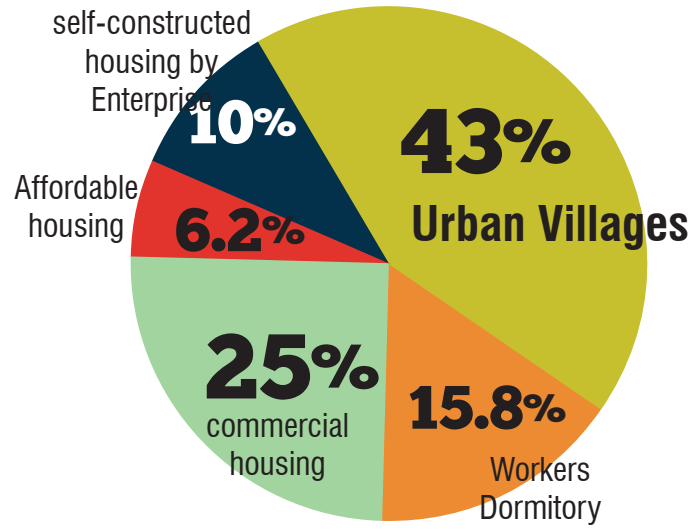
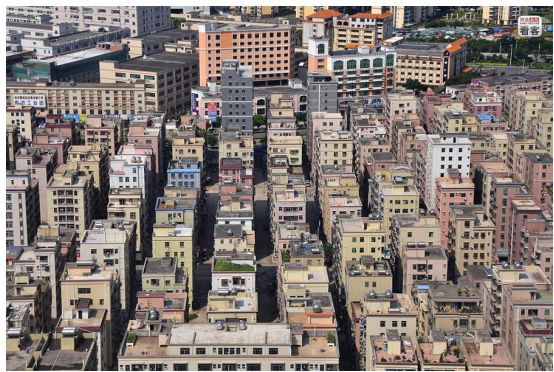
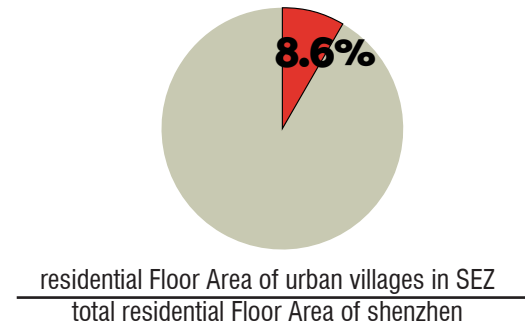
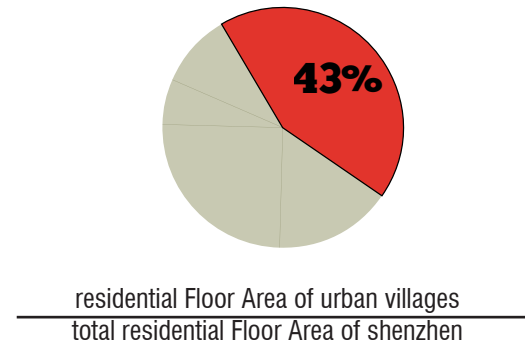
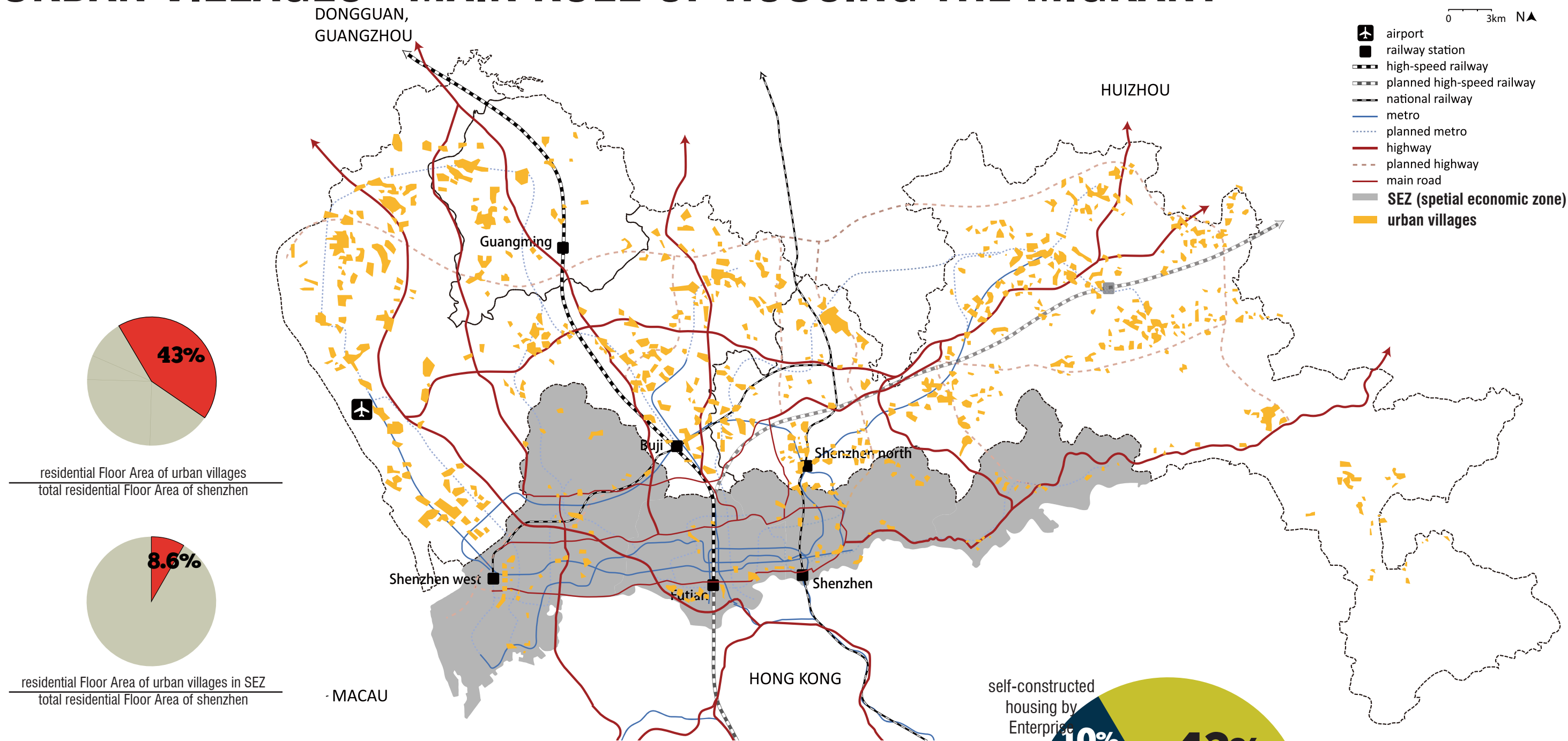


Source: Handbook of Shenzhen Statistics 1995; Statistical Yearbook 2002; Shenzhen Government Online 2012 at <http://english.sz.gov.cn/gi/>, 30-10-2012

THE MARGINAL STATUS OF RURAL MIGRANTS IN FORMAL HOUSING



URBAN VILLAGES - MAIN ROLE OF HOUSING THE MIGRANT

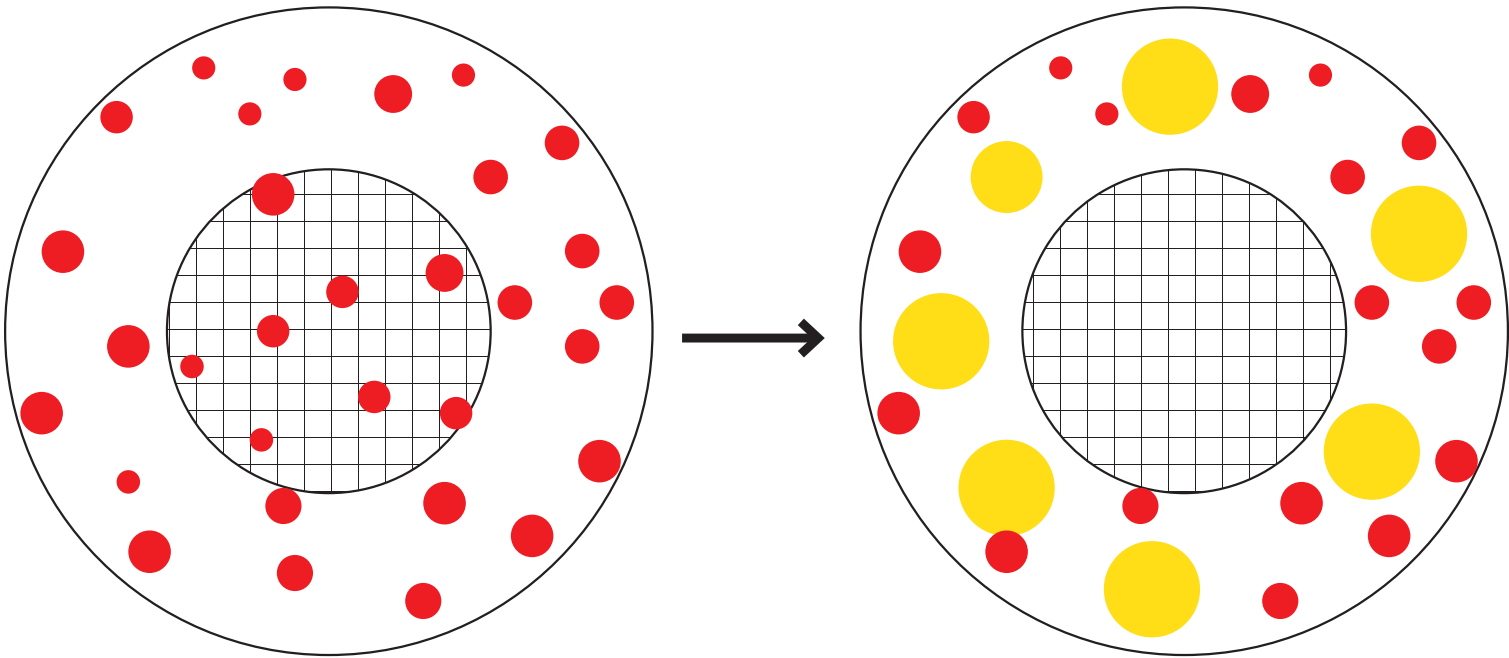


Housing category and proportion

URBAN VILLAGE REDEVELOPMENT AND AFFORDABLE HOUSING DEMAND



Current approach balance urban villages redevelopment and affordable housing demand



- urban villages
- ▦ central districts
- shenzhen city
- social housing neighborhoods

CONSTRAINTS OF CURRENT APPROACH

1. Conflict between huge affordable housing demand and government's financial constraints

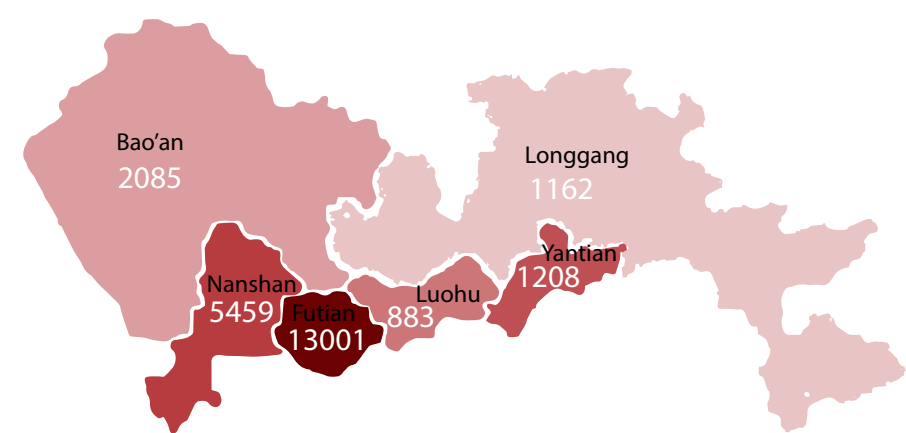


Fig1.9 The completed amouts of affordable housing in Shenzhen from 2006-2010.

2. Conflict between affordable housing location demand and government's land constraints

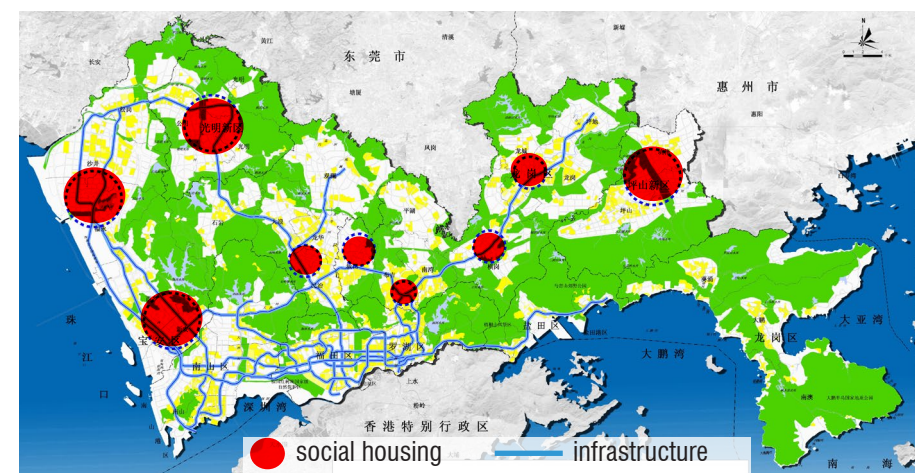


Fig 1.10 The plan of affordable housing in Shenzhen from 2011-2015

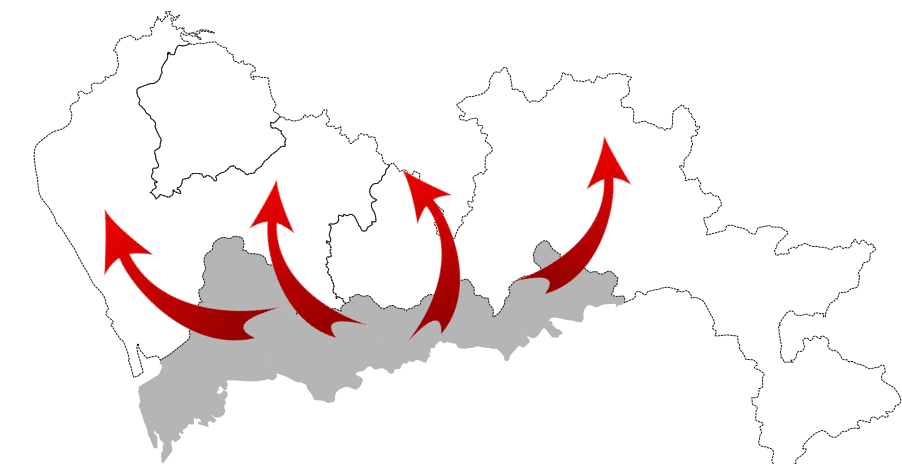
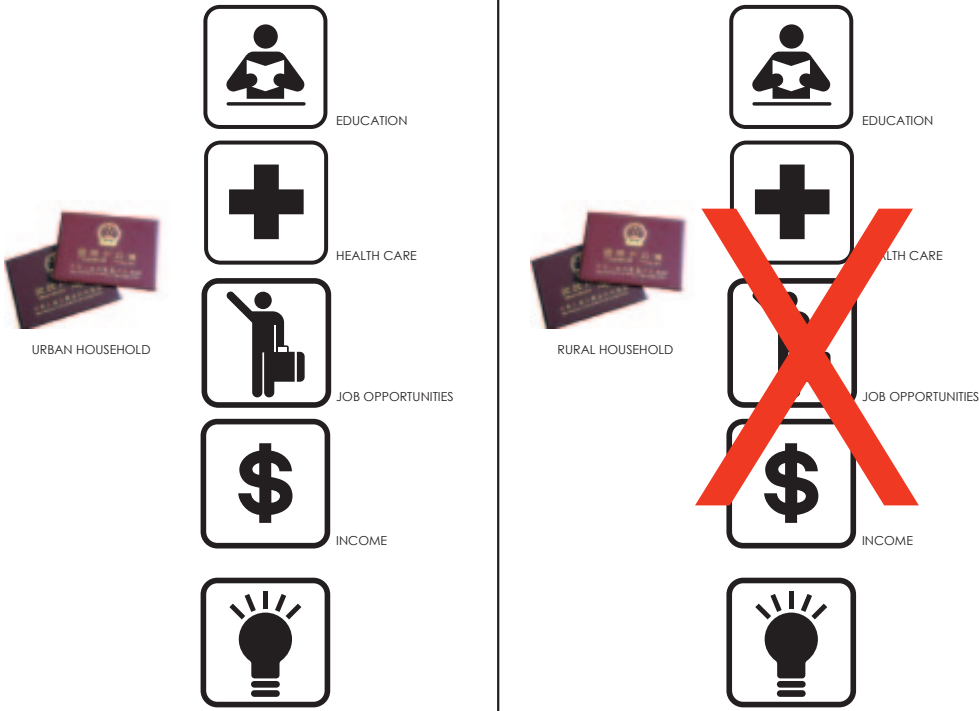


Fig 1.11 SHENZHEN development during transitional period

3. Institutional constraints



To preserve and upgrade the urban villages then use them as effective tools to house the migrants, especially during the SHENZHEN transitional period.

PROJECT AIM



How to transform the urban villages into liveable neighbourhoods through improving the living environment and dealing with both the problems and opportunities of self-organizing systems in urban villages, and retain their roles as housing the migrants during SHENZHEN transitional period?

1. How to improve the living environment in urban villages?
2. What are the problems and opportunities of self-organizing systems in urban villages?
3. How to retain roles of upgrading urban villages as housing the migrants during SHENZHEN transitional period?

SELF-ORGANIZING
SYSTEM?

LIVING ENVIRONMENT
IMPROVEMENT?

PROBLEMS?

OPPORTUNITIES?

HOUSING THE
MIGRANT?

UNCERTAIN
FUTURE?



PROBLEMFIELD

urban villages redevelopment

affordable housing demand



PROJECT AIM

upgrade the urban villages then use them as effective tools to house the migrants



RESEARCH QUESTIONS

How to transform the urban villages into liveable neighbourhoods through improving the living environment and dealing with both the problems and opportunities of self-organizing systems in urban villages, and retain their roles as housing the migrants during SHENZHEN transitional period?



TEST SITE ANALYSIS

self-organizing system
methods:site visit, interview,
opportunities problems

challenge of living environment
methods:site visit,Mapping,Data



STRATEGY

visions and partnerships at different scale
city scale district

upgrading self-organizing system

actions of living environment improvement



CONCLUSION



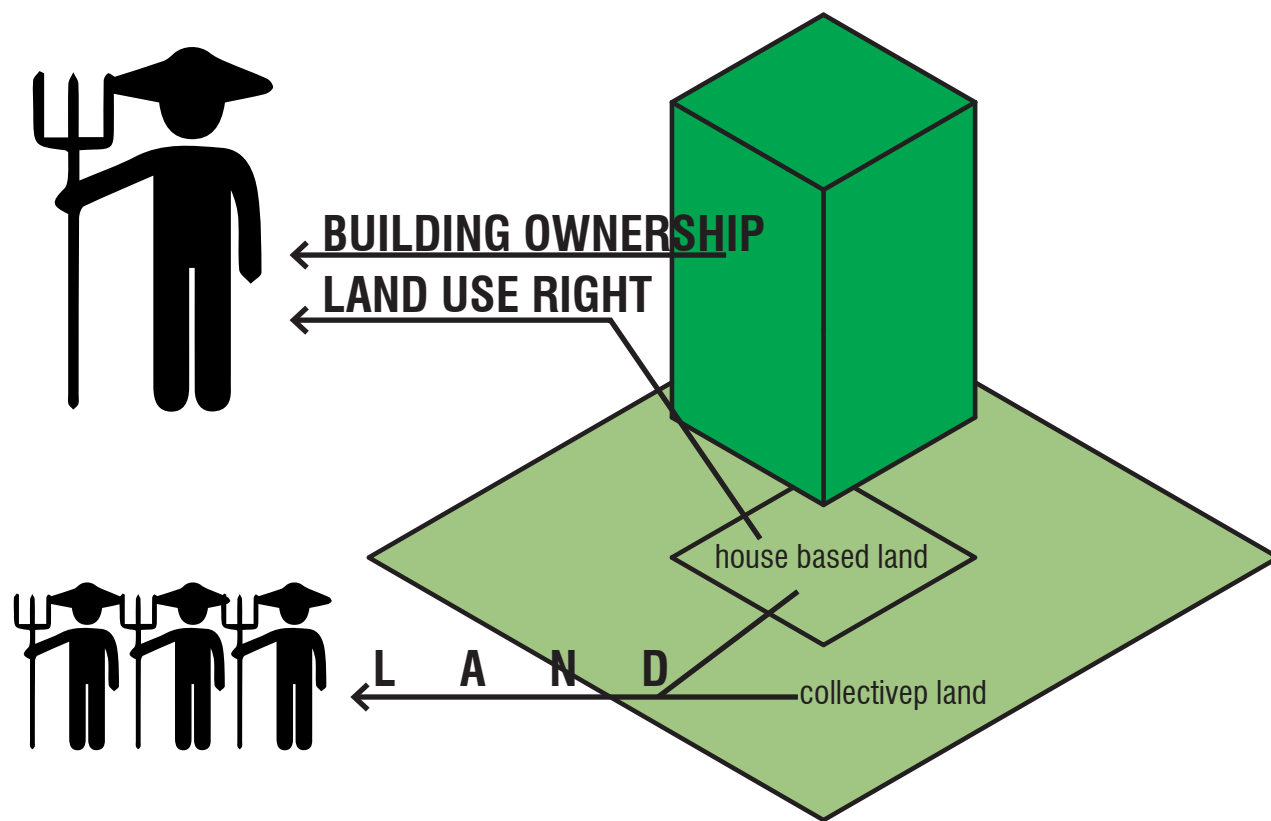
THEORETICAL FRAMEWORK

self-organizing system
methods:Literature Research, case
opportunities problems

planning approach
methods:Literature Research, case
visions actions

living environment design principles
methods:Literature Research
basic human control over

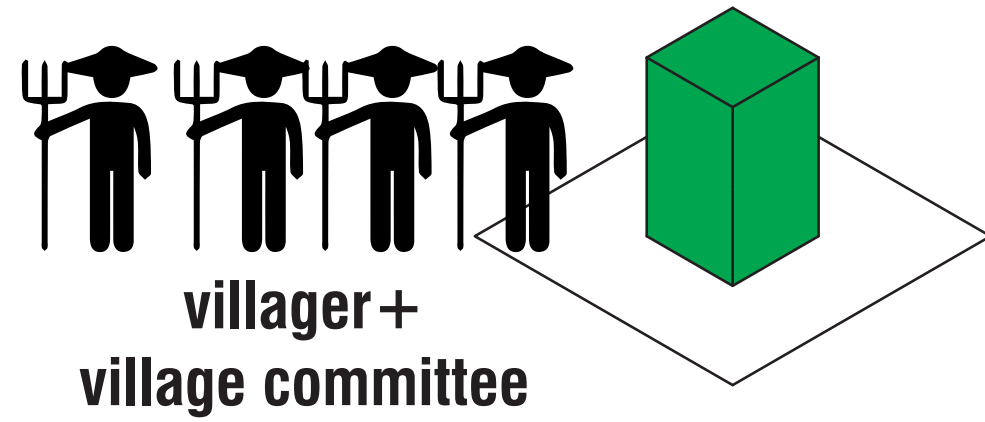
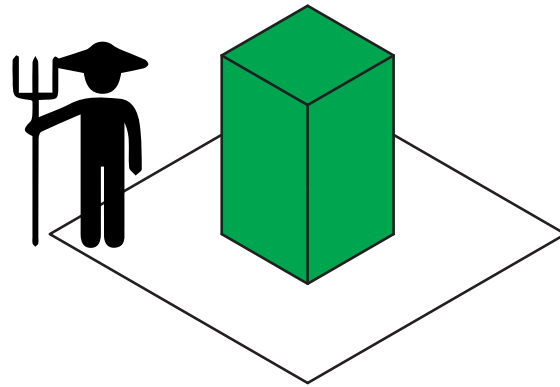
2. THEORETICAL FRAMEWORK



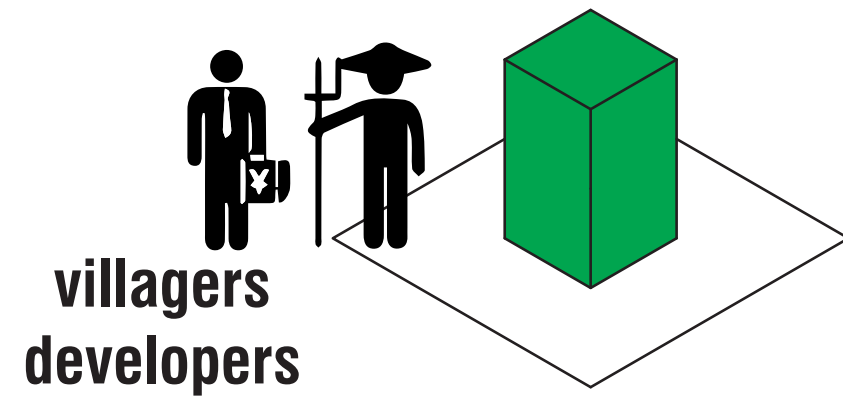
INTRODUCTION

SELF-ORGANIZING
SYSTEM

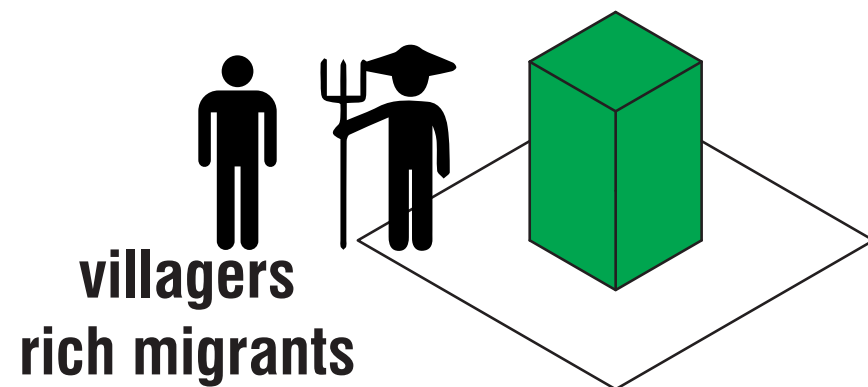
villager



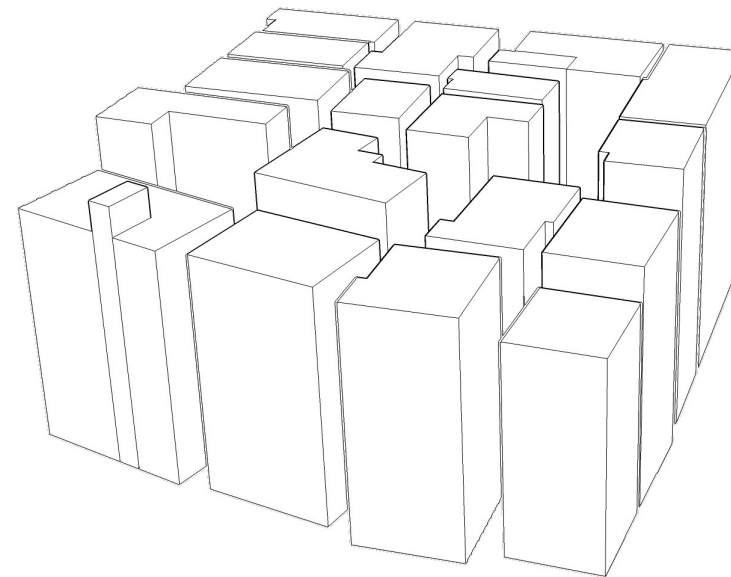
**villager +
village committee**



**villagers
developers**



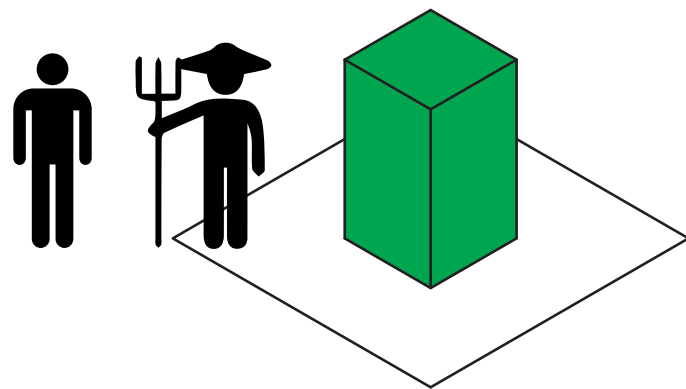
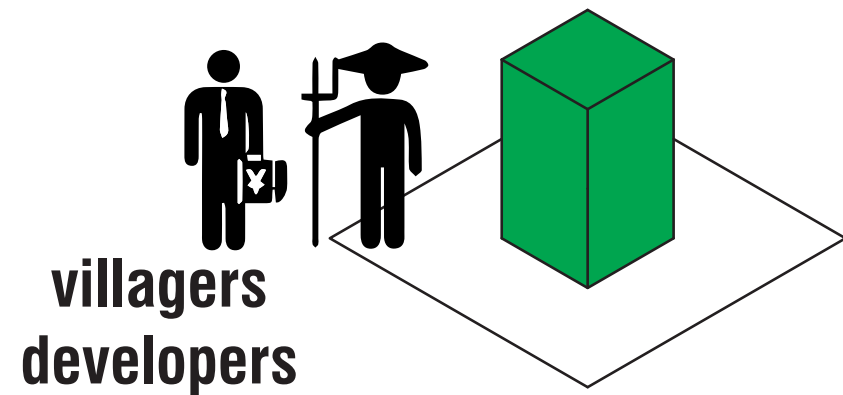
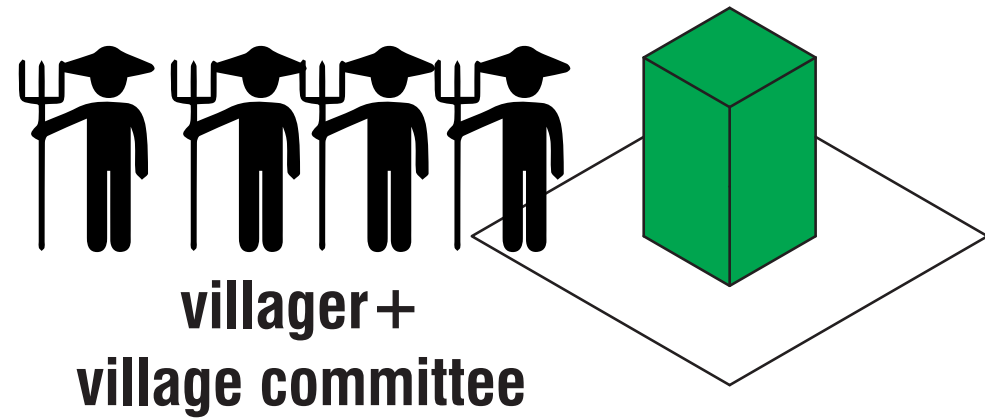
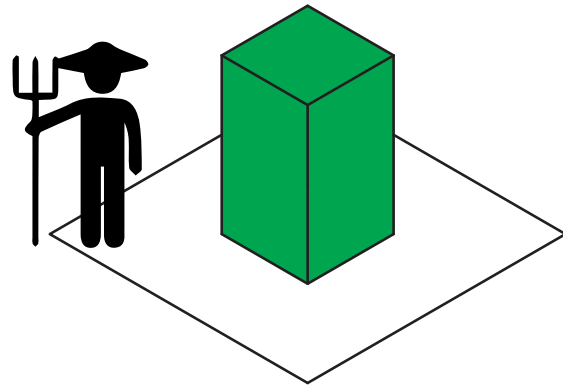
**villagers
rich migrants**



INTRODUCTION

**SELF-ORGANIZING
SYSTEM**

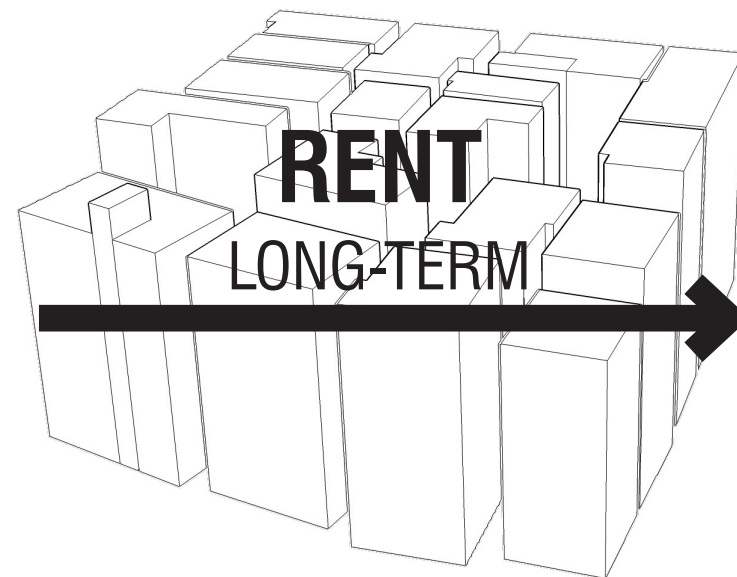
villager



SELL



Low-income citizens who can
not afford formal housing;
housing speculators



informal sectors established
by groups of migrants

RENT
SHORT-TERM



individual migrant

INTRODUCTION

**SELF-ORGANIZING
SYSTEM**

opportunities

Informal but efficient housing trade
Informal but vibrant economic activities
Informal but necessary public facilities
Job opportunities in urban villages

problems

Conflict between public and private interest
Lack of effective regulation and maintenance
Lack of tenure security
Lack of tenant management

STRATEGIC URBAN PROJECT APPROACH

stakeholders Partnerships

Visions at different scales

Specific actions in strategic locations

INTRODUCTION

PLANNING APPROACH

basic human needs for living environment

**escape temporarily from the physical
stresses of the urban environment;
experience nature;
privacy;
security and safety
affiliation and belonging;
social recognition and status;
physical exercise;
tension-release**

control over social environment

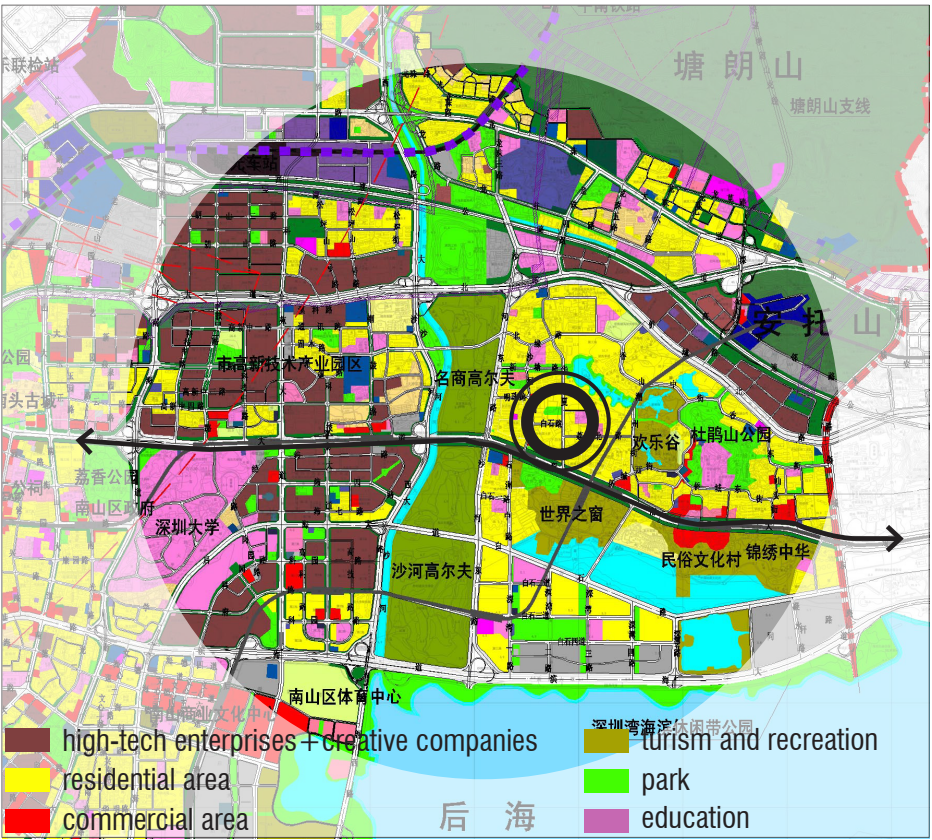
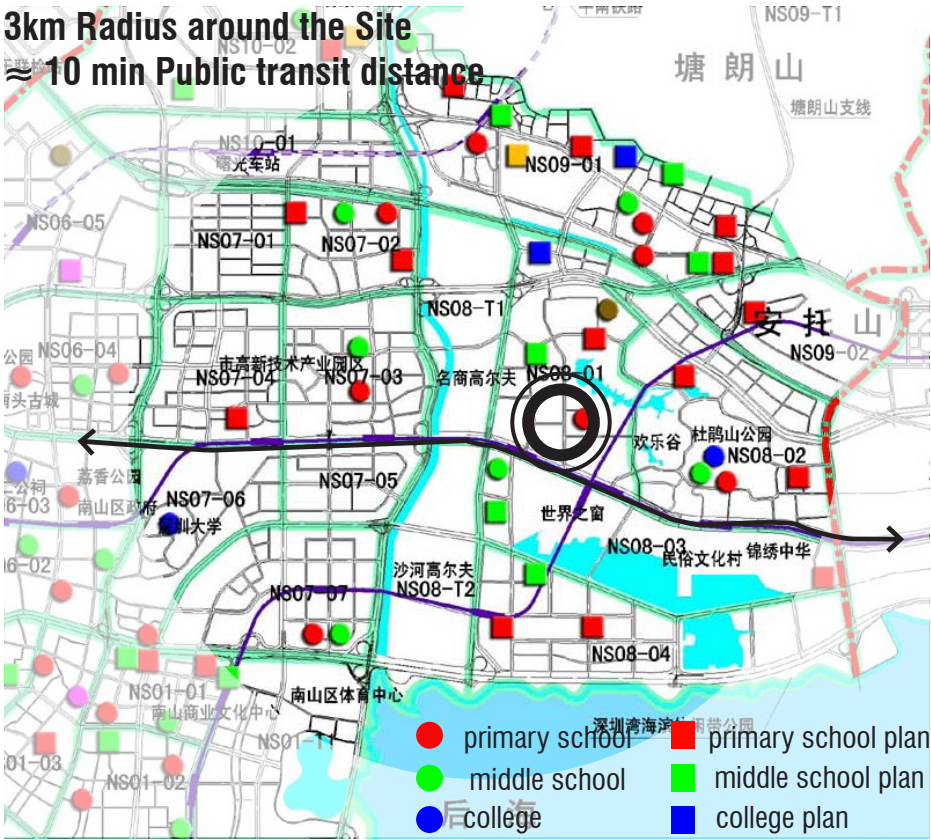
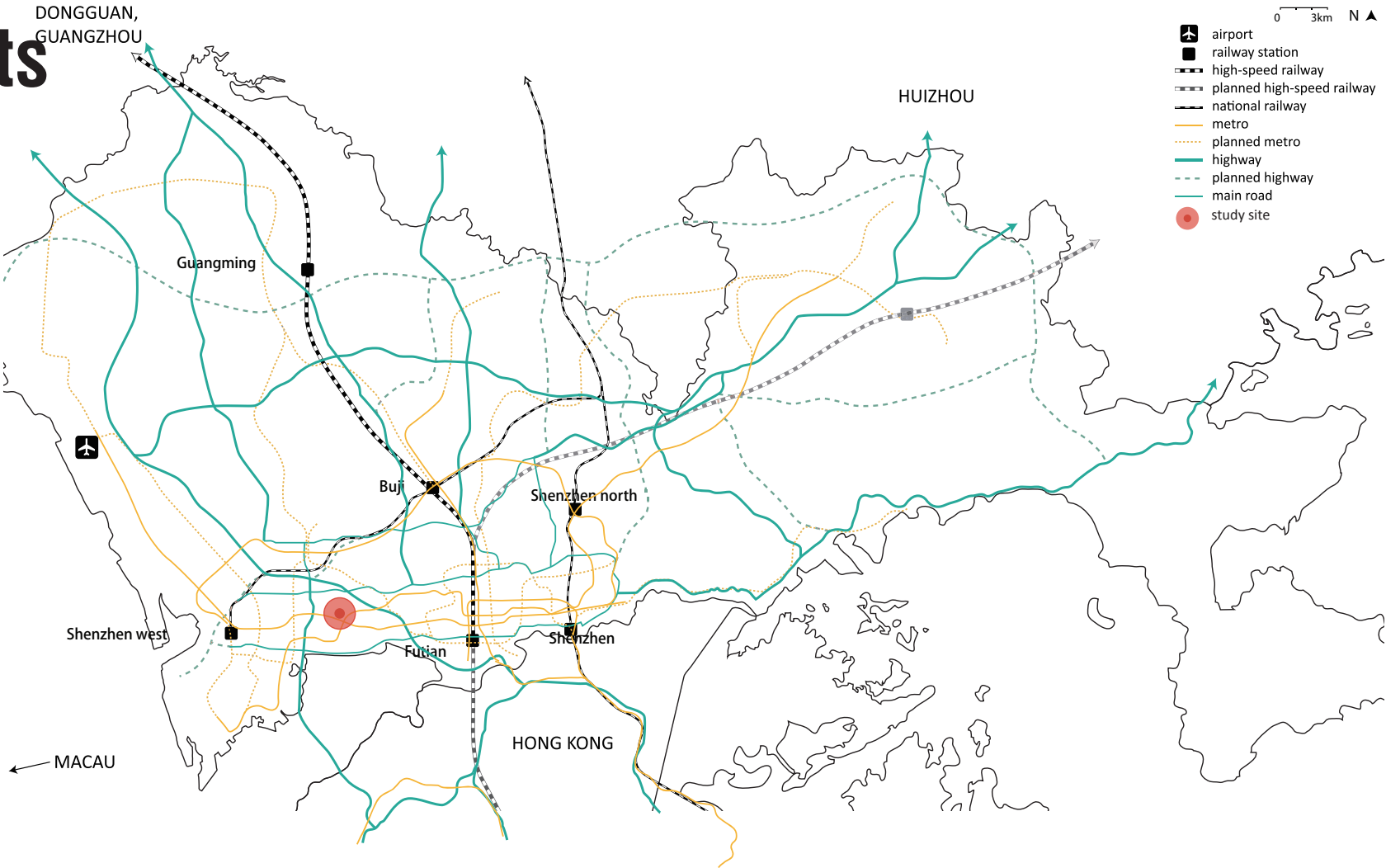
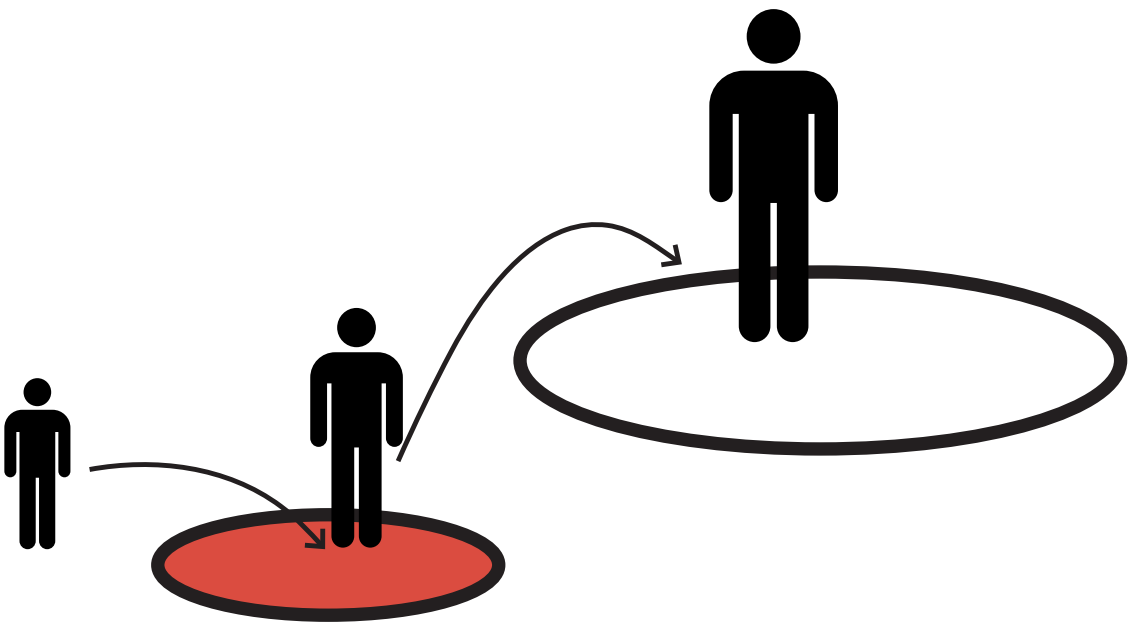
INTERPERSONAL DISTANCE ZONE

TERRITORIAL BEHAVIOUR

DIFFERENT ZONES OF PRIVACY

3. TEST SITE-BAISHIHZOU

Efficient tools to house the migrants

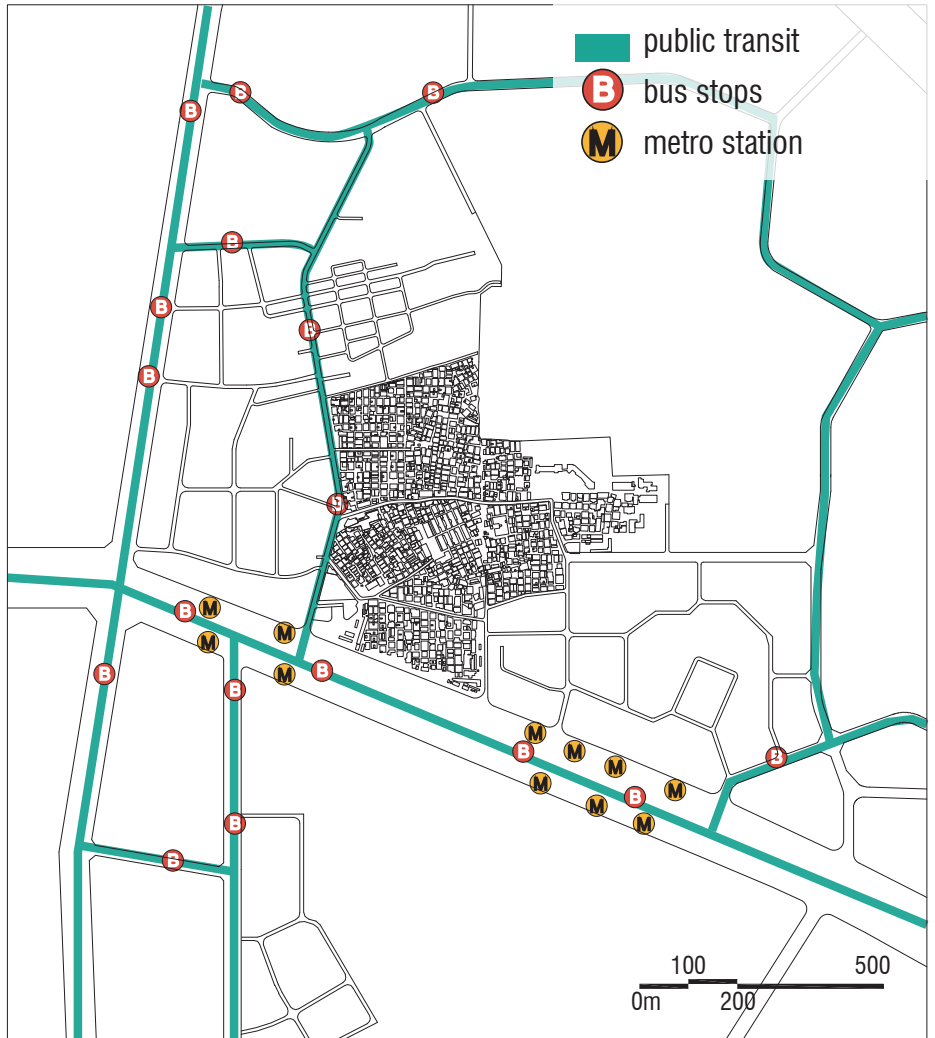
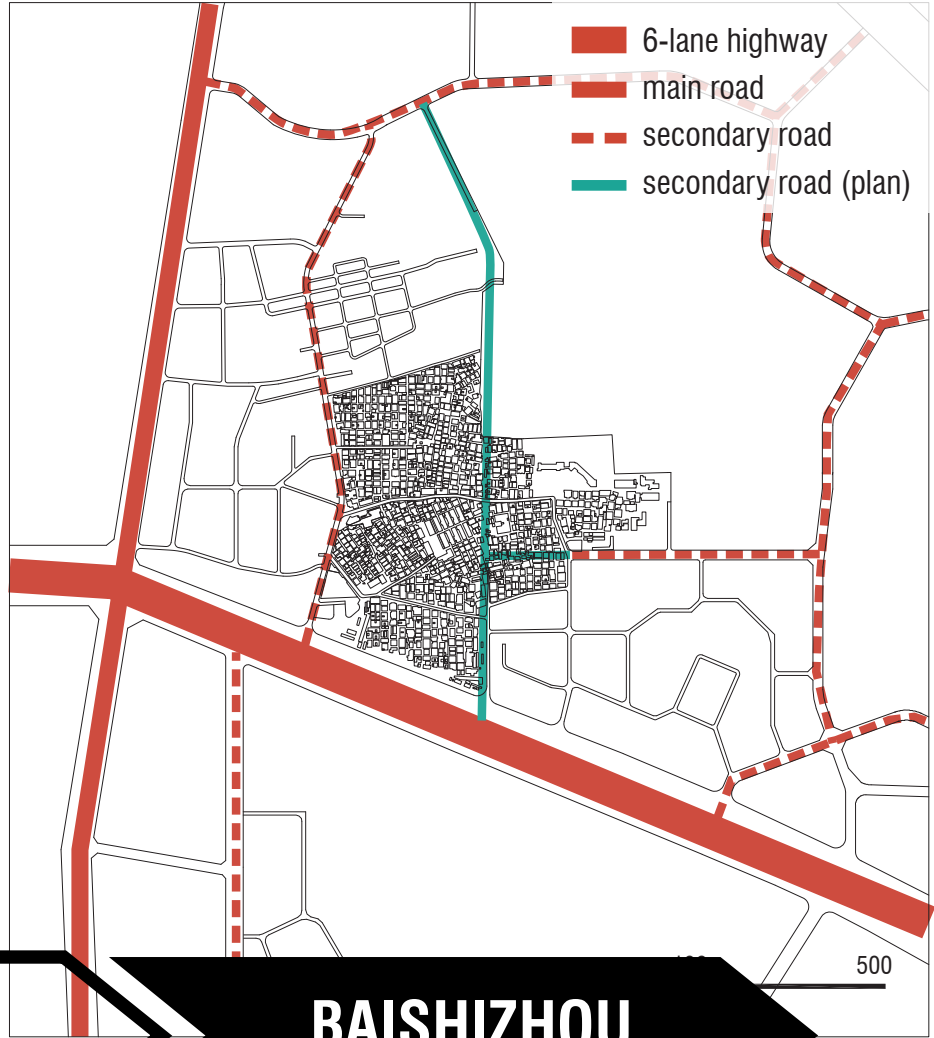
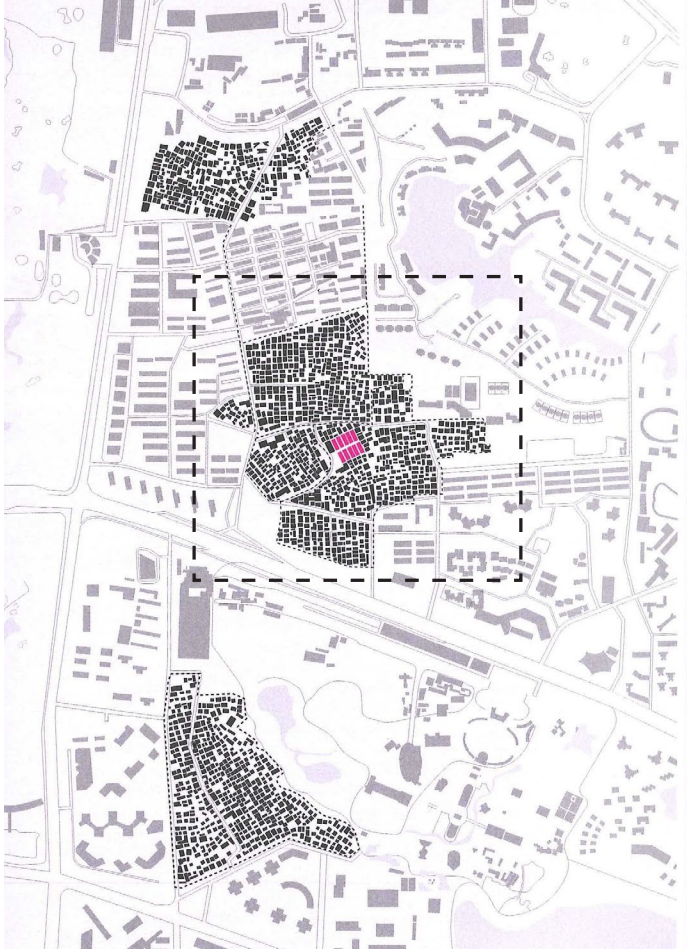
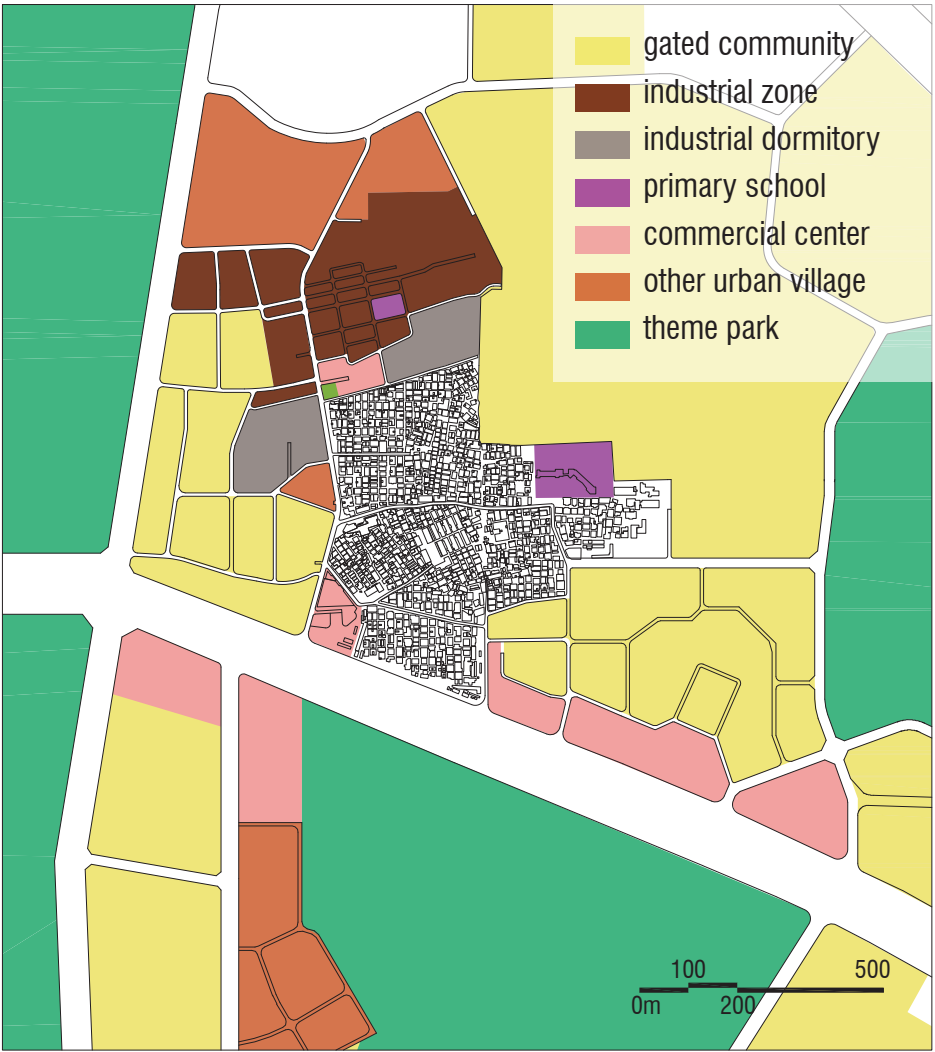
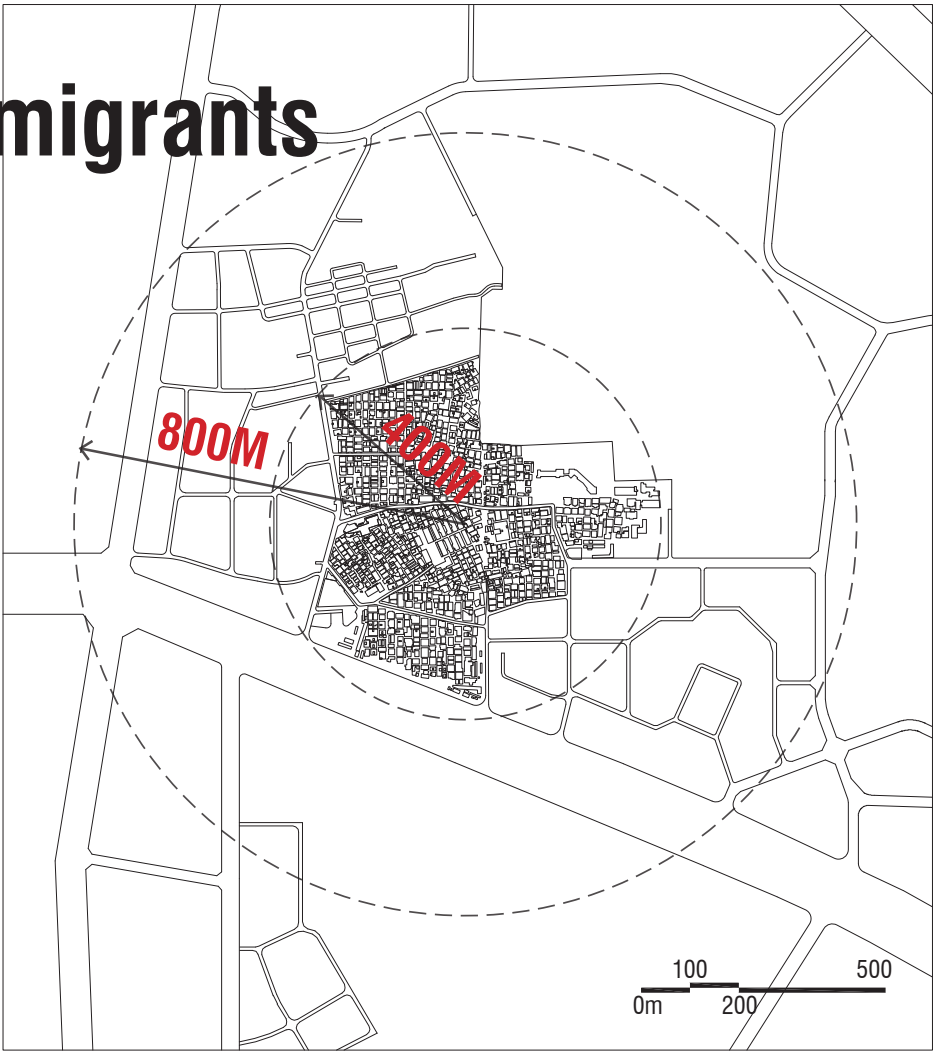


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BAISHIZHOU

Efficient tools to house the migrants

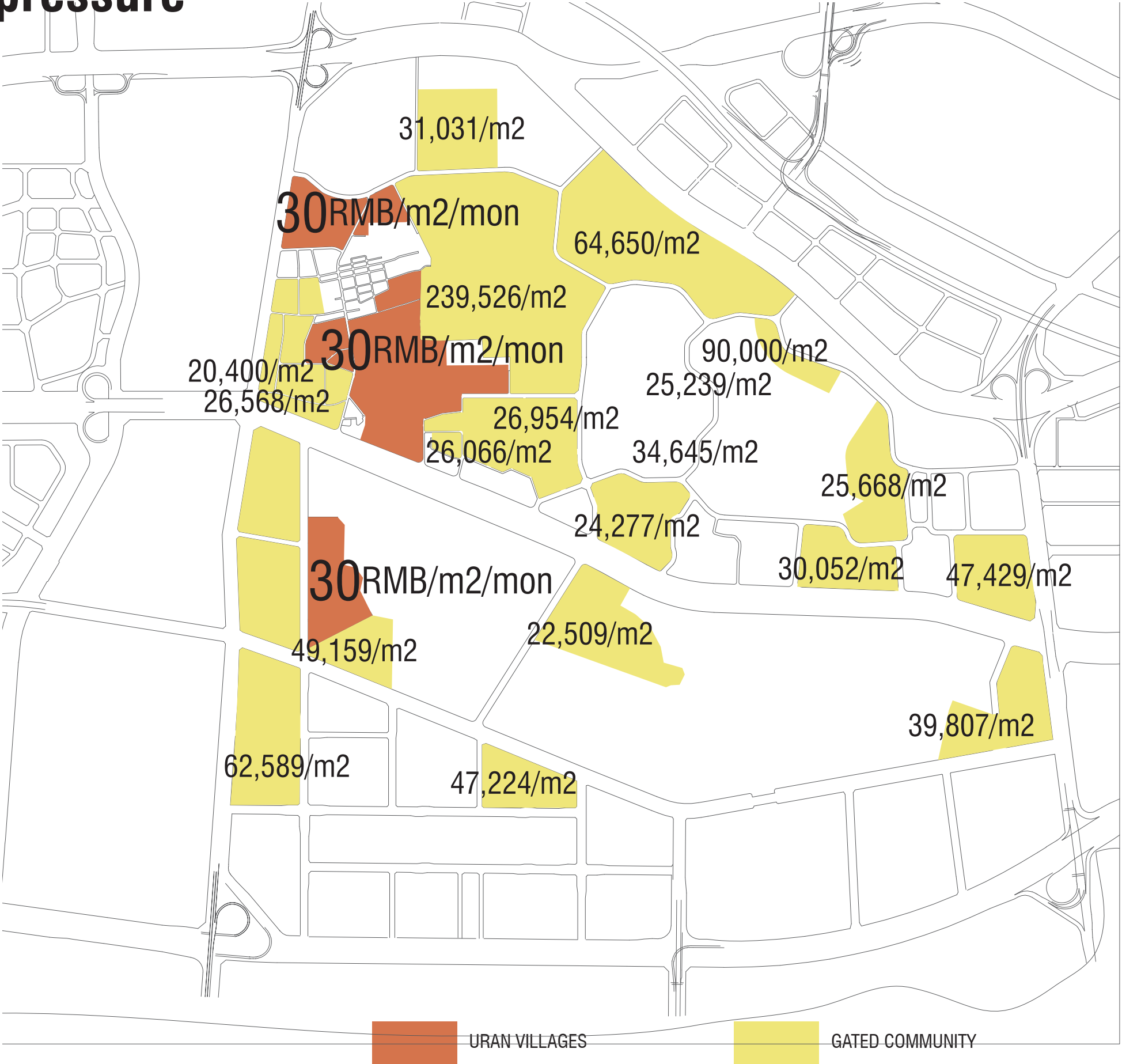


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Demolition-redevelopment pressure



Dynamic self-organizing system in BAISHIZHOU



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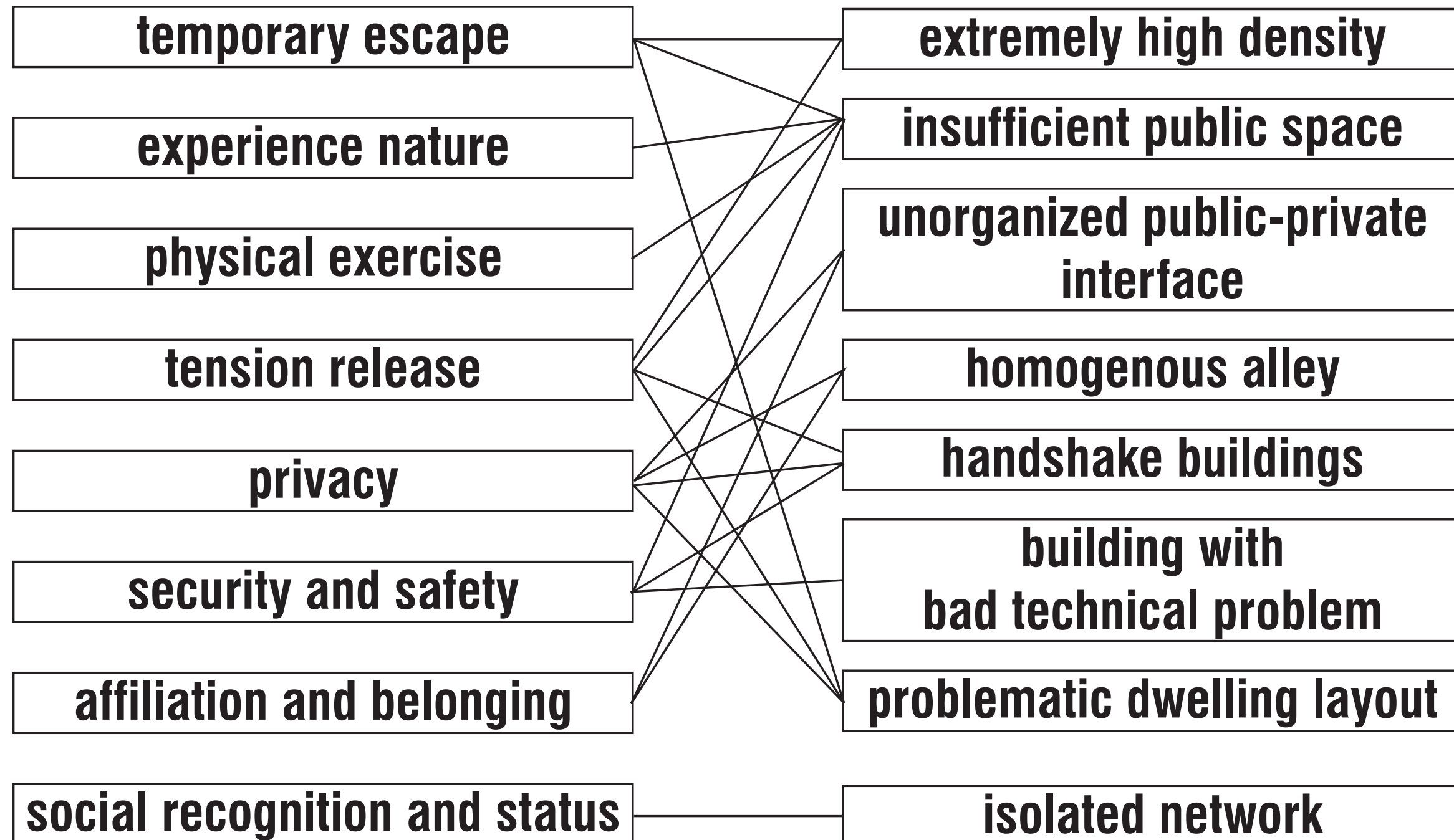
THEORETICAL
FRAMEWORK

BAISHIZHOU

BASIC HUMAN NEEDS

← threaten

SPATIAL PROBLEMS

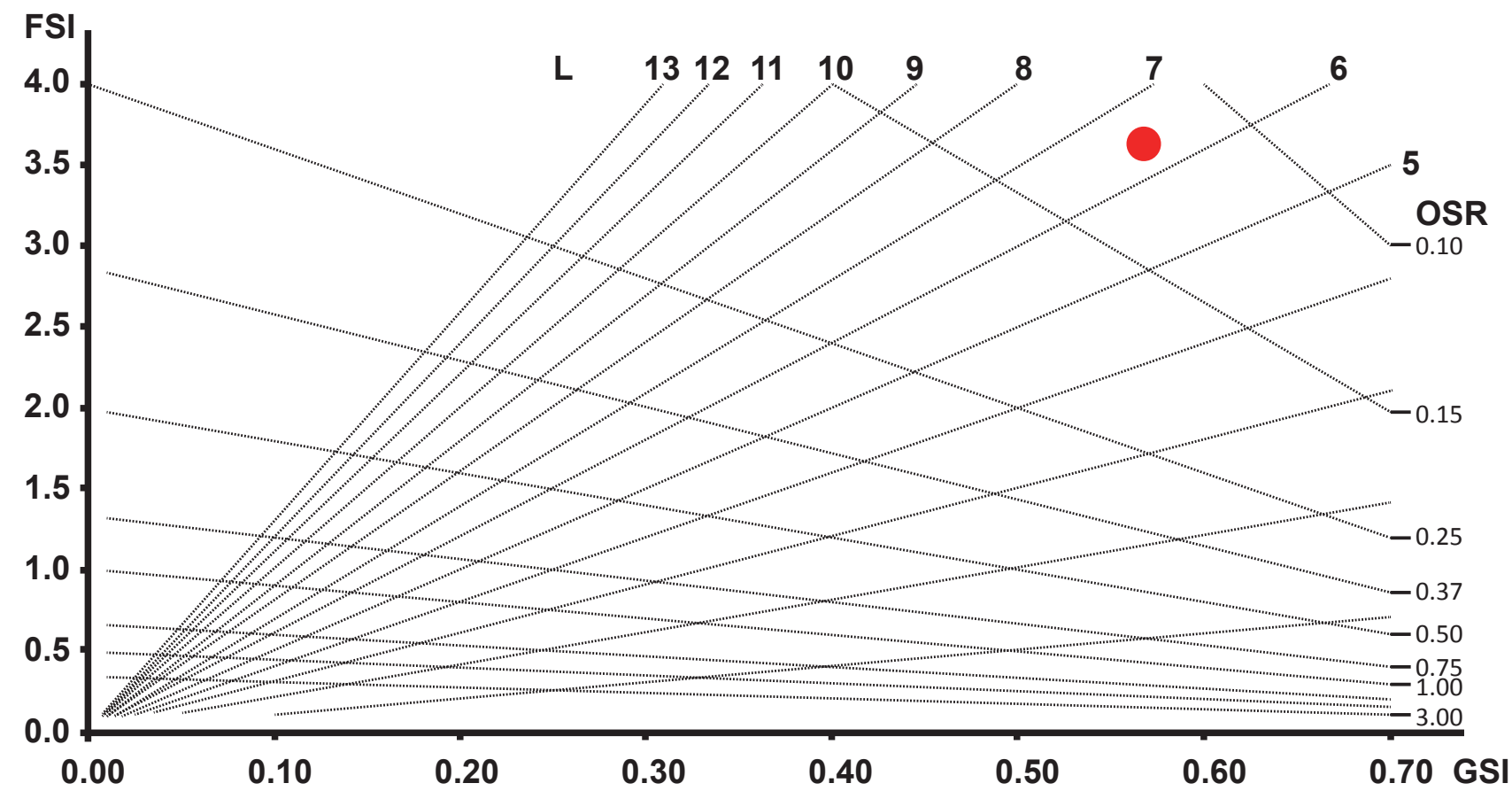


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LIVING ENVIRONMENT

EXTREMELY HIGH DENSITY



FSI=3.6

GSI=0.57

L =6.3

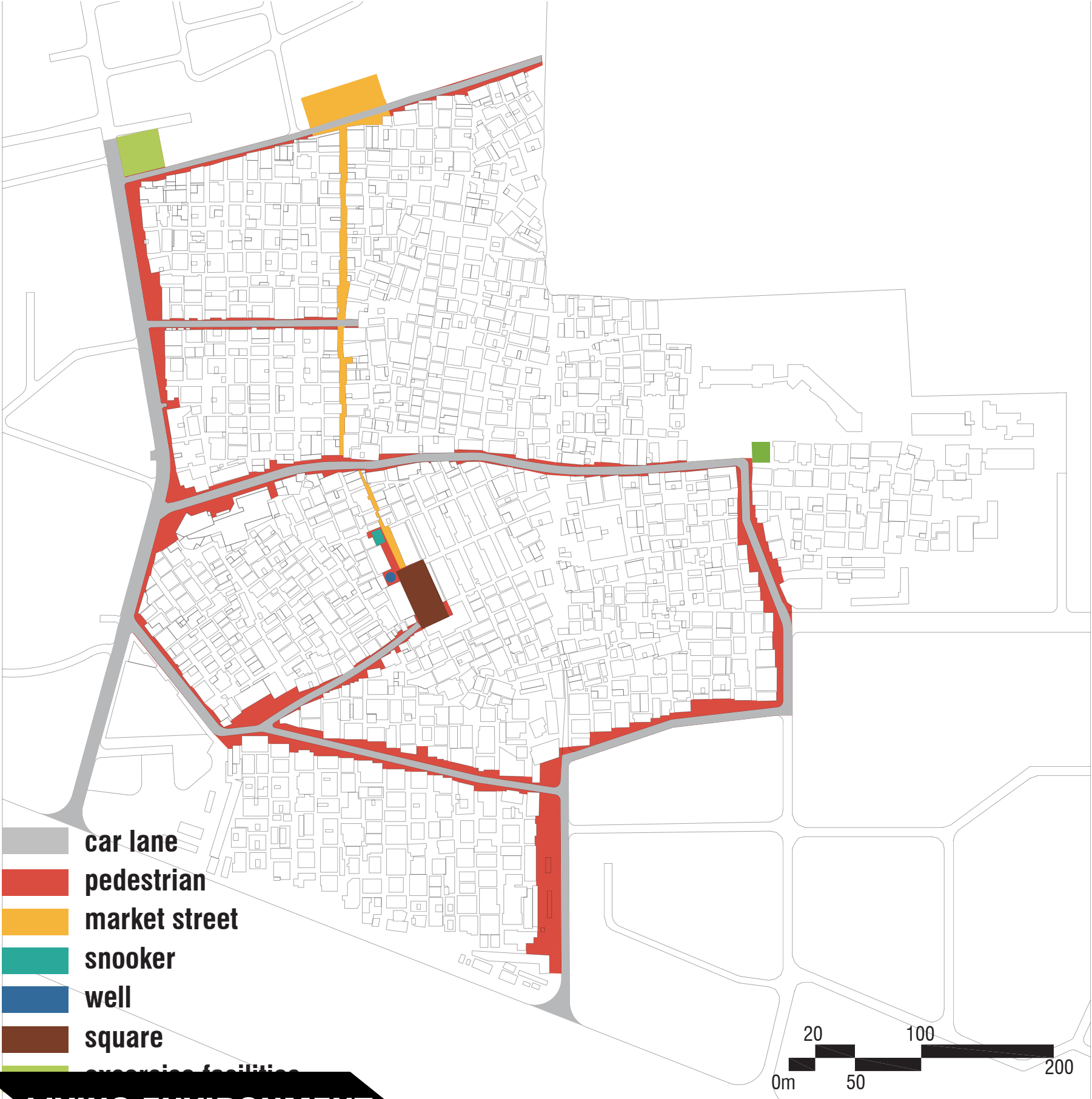
OSR=0.12

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LIVING ENVIRONMENT

INSUFFICIENT PUBLIC SPACE NETWORK



INTRODUCTION

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LIVING ENVIRONMENT

ACTIVITIES IN THE PUBLIC SPACE NETWORK



pedestrian and car lane
car lane: dead end, low connectivity with the surrounding urban network, bad quality.



exercise facilities
people show the desire of physical exercise.



well
small groups of women gather, washing the



market street
pedestrian and market street: be accompanied with commercial frontage, which with similar spatial form and necessary consumer goods. There are only necessary activities (e.g. going to school)



snooker
one of few recreation choice in BAISHIZHOU.



square
the only square in BAISHIZHOU. small business at daytime, night market at night.

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UNORGANIZED PUBLIC-PRIVATE INTERFACE



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HOMOGENOUS ALLEY

local needs for the outdoor space? →



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LIVING ENVIRONMENT

'HANDSHAKE' BUILDINGS

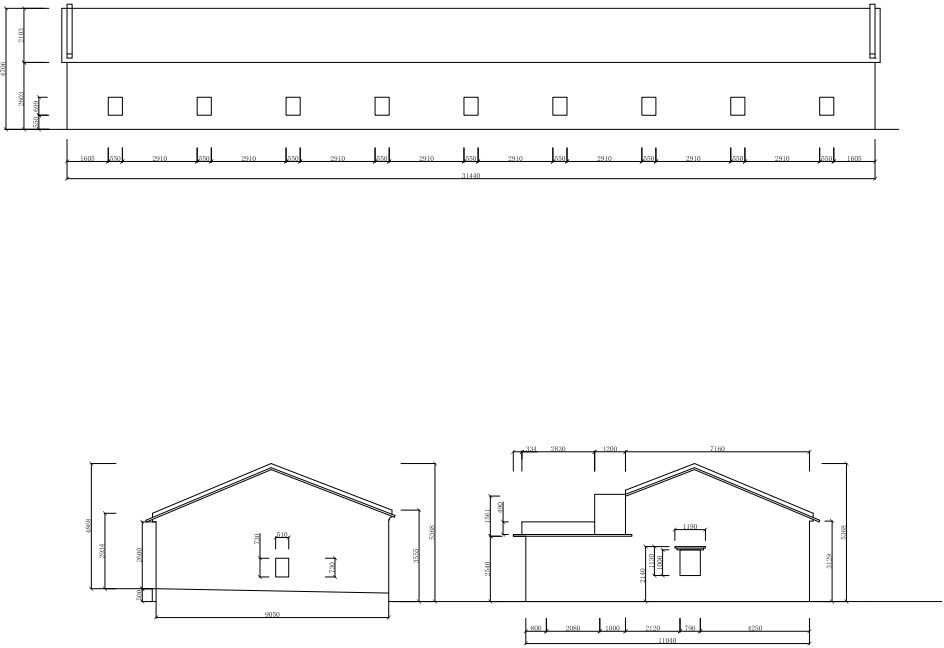
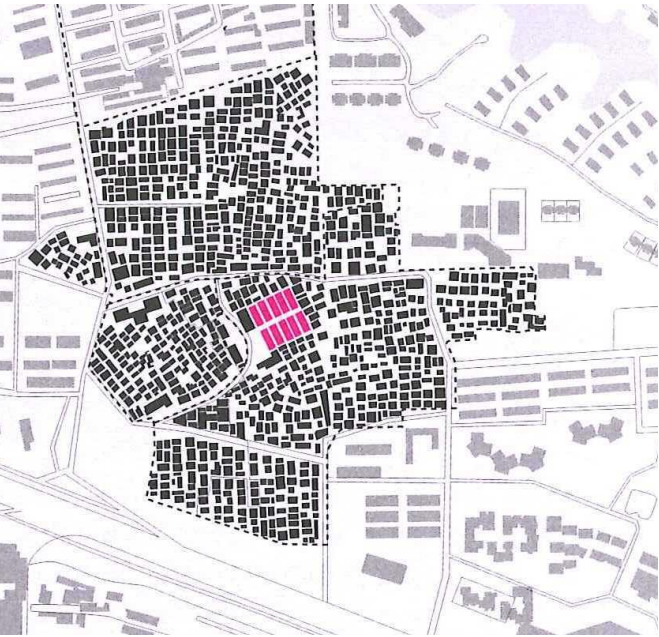
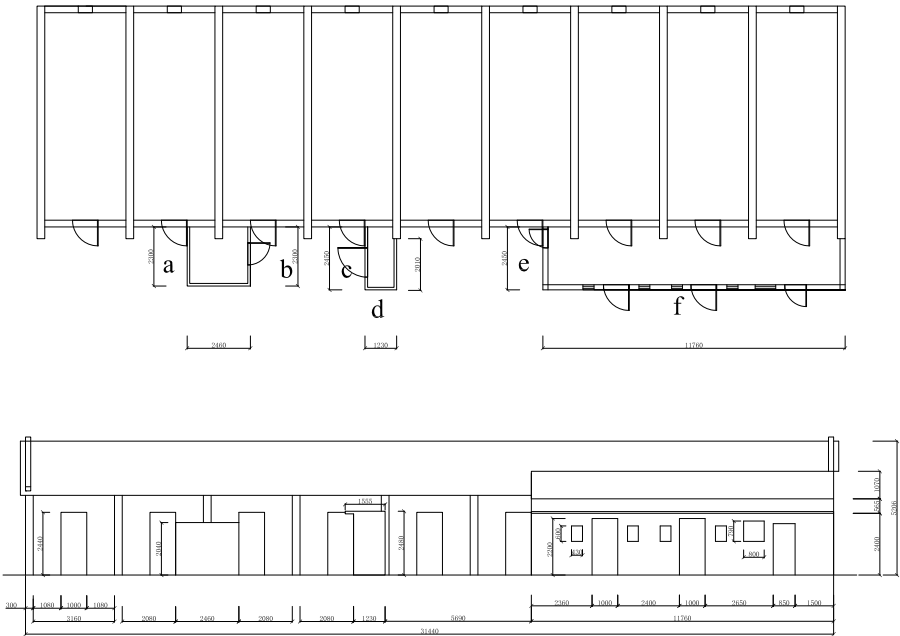


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FRAMEWORK

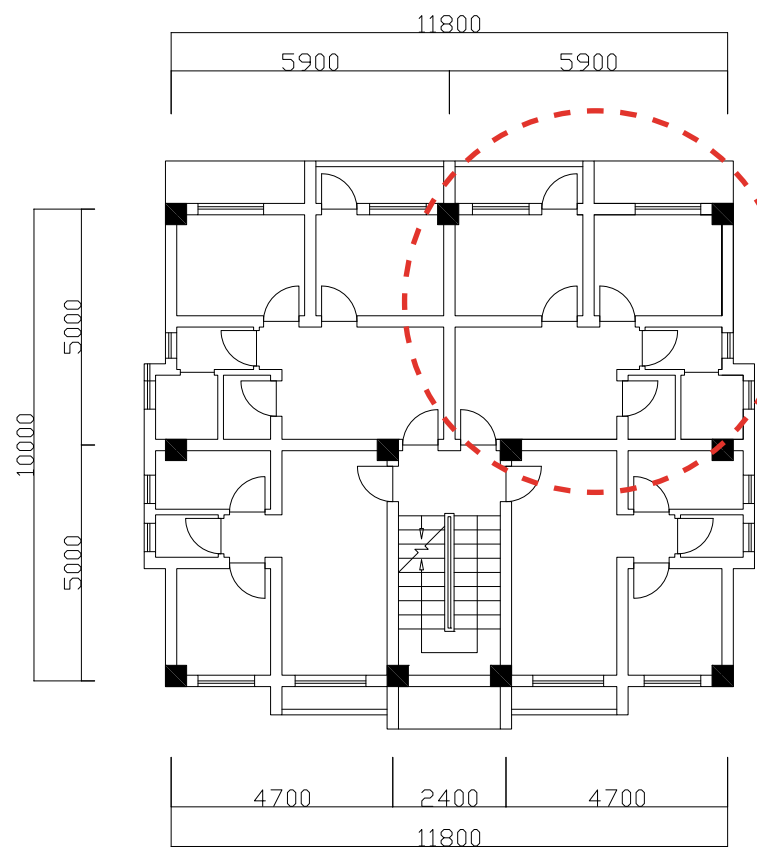
LIVING ENVIRONMENT

BUILDING WITH BAD TECHNICAL QUALITY

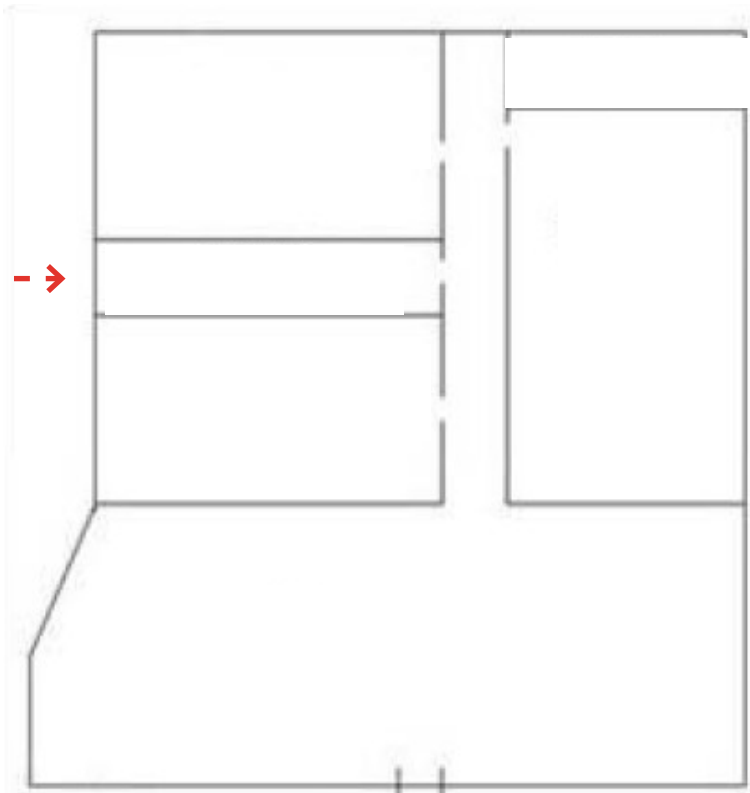


PLAN AND ELEVATION OF OLD VILLAGE BUILDING

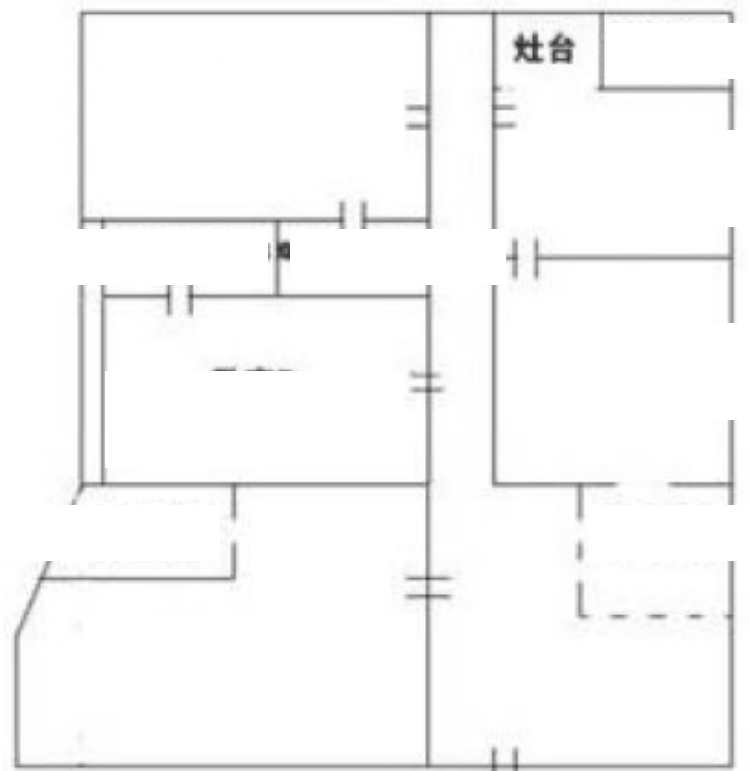
PROBLEMATIC DWELLING LAYOUT



FLOOR PLAN OF TYPICAL HOUSING STOCK
IN URBAN VILLAGES



UNIT PLAN BEFORE



UNIT PLAN AFTER

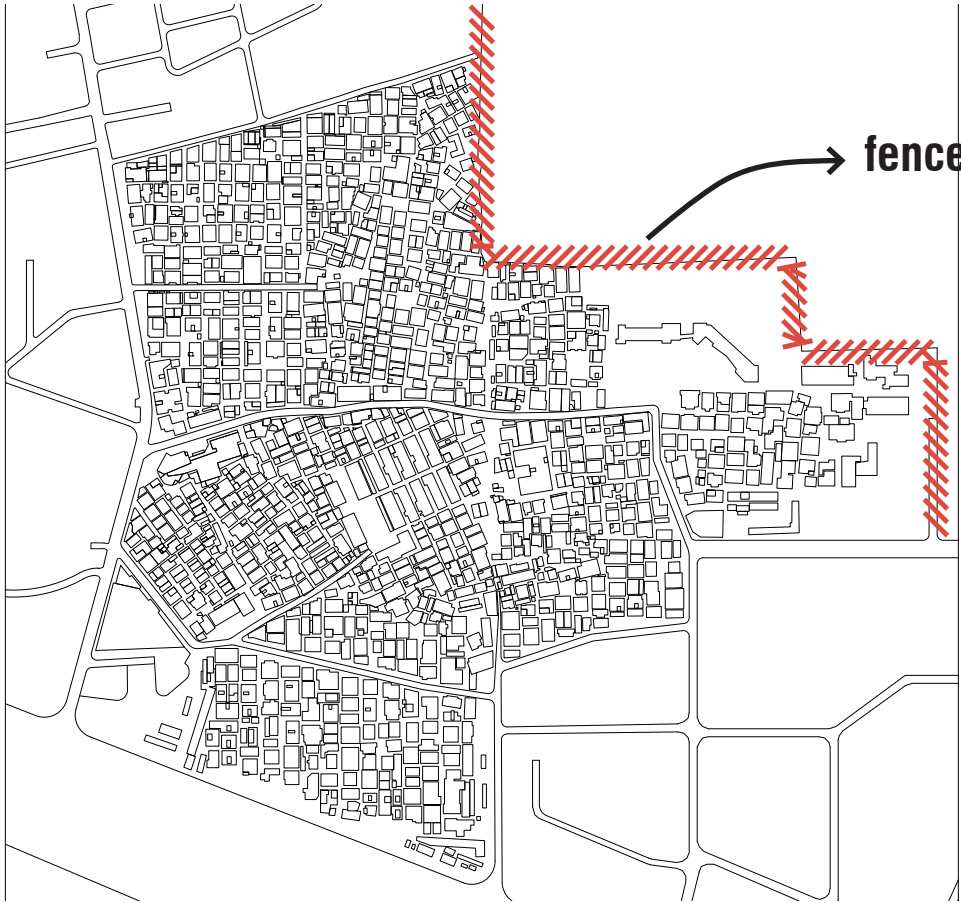


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ISOLATED NETWORK

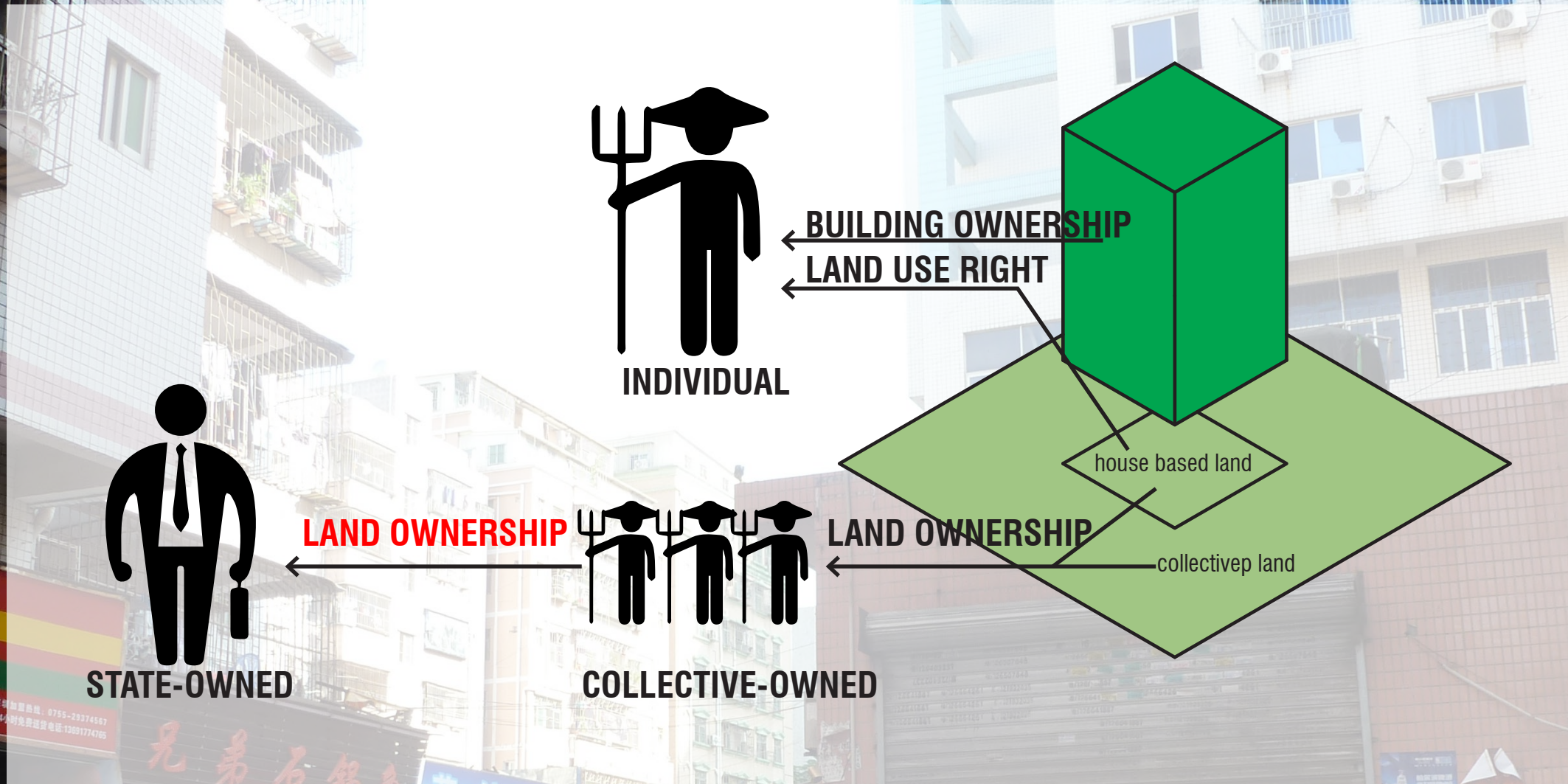


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Conflict between public interest and private interest



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SELF-ORGANIZING
SYSTEM

Lack of effective regulation and maintenance



Lack of tenant management leave opportunity to the criminals and housing speculators



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**THEORETICAL
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**SELF-ORGANIZING
SYSTEM**

Lack of tenure security

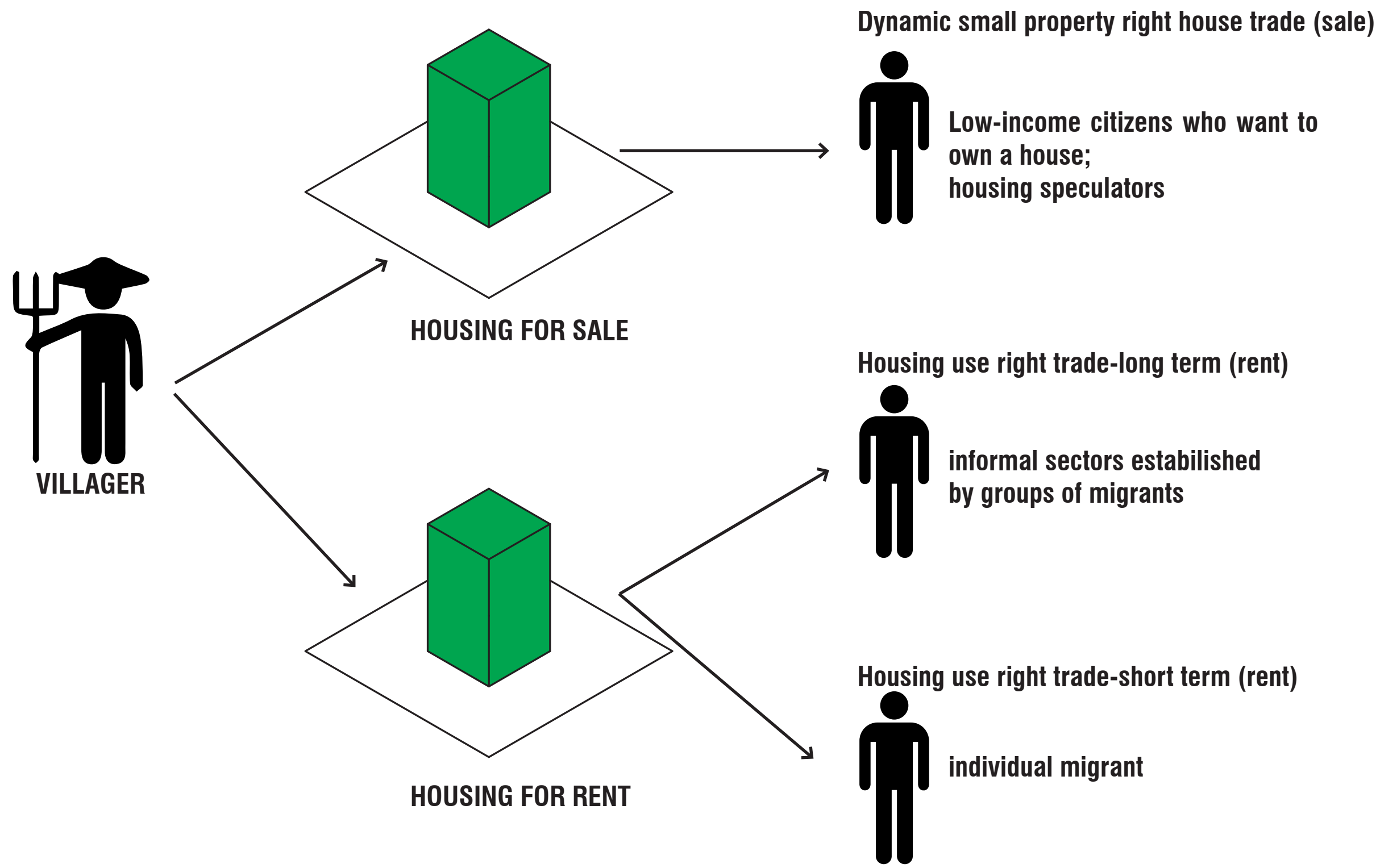


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SYSTEM

Informal but efficient housing trade



Informal but vibrant economic activities



INTRODUCTION

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Informal but necessary public facilities



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SELF-ORGANIZING
SYSTEM



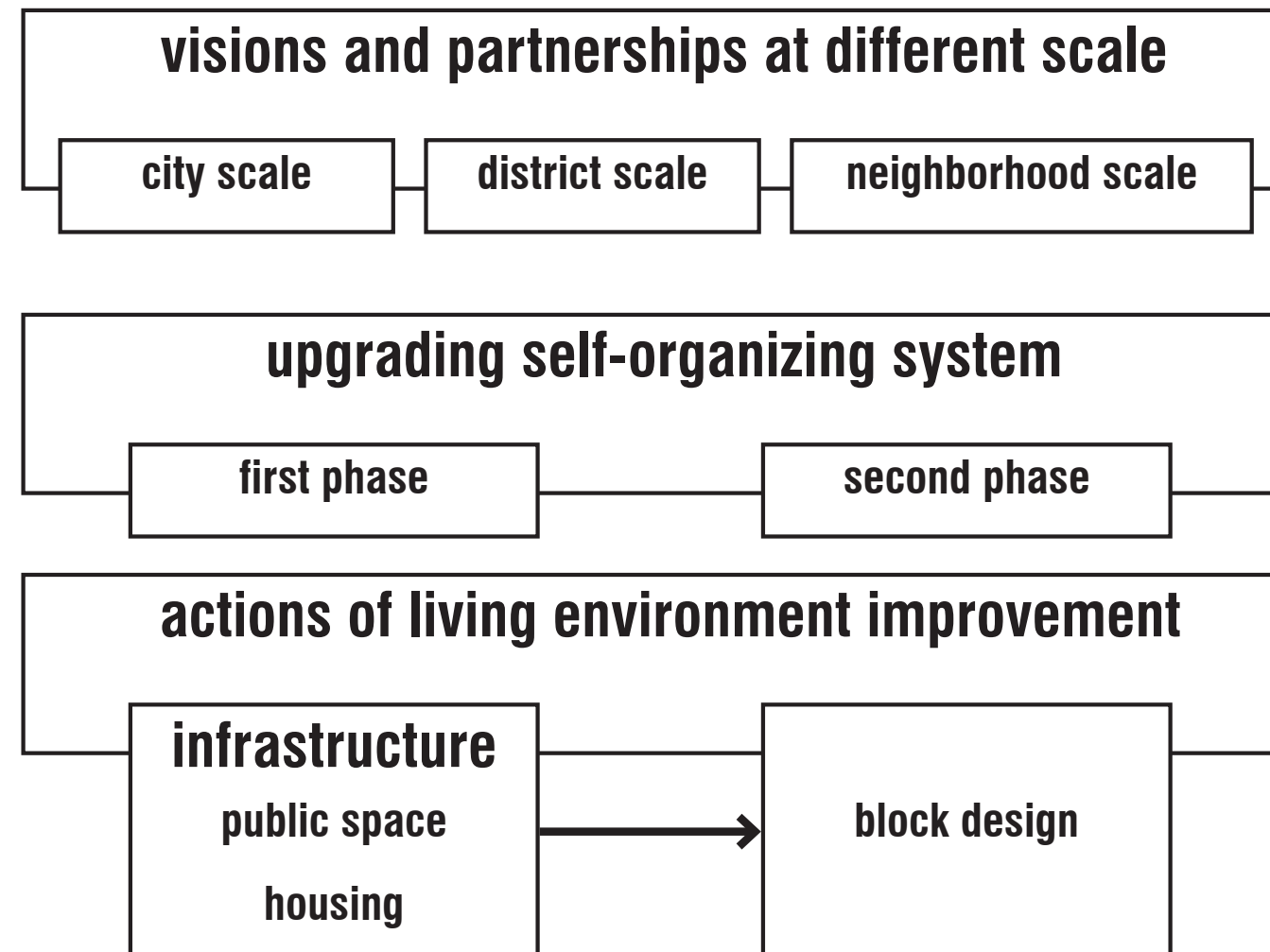
Job opportunities inside the urban villages

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SELF-ORGANIZING
SYSTEM

4. STRATEGY



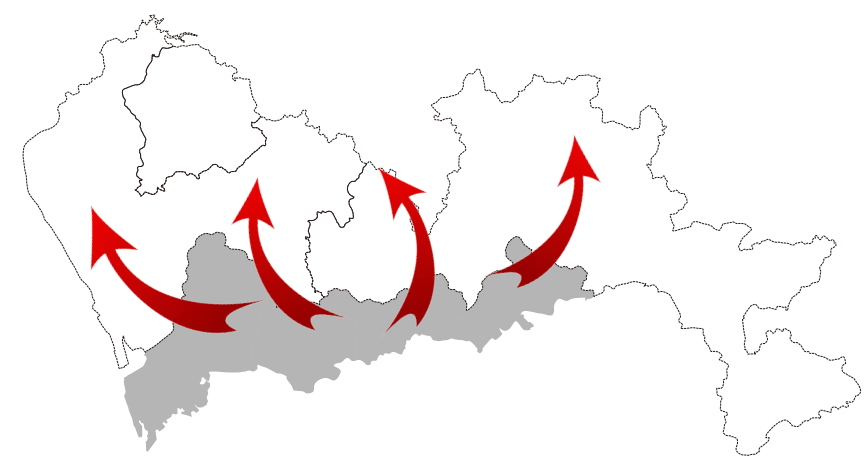
INTRODUCTION

**THEORETICAL
FRAMEWORK**

BAISHIZHOU

FRAMEWORK

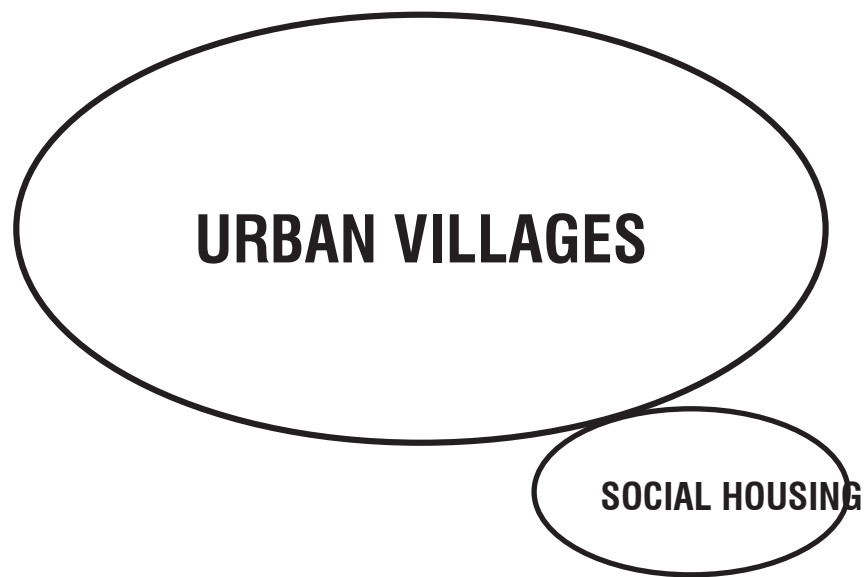
CITY SCALE



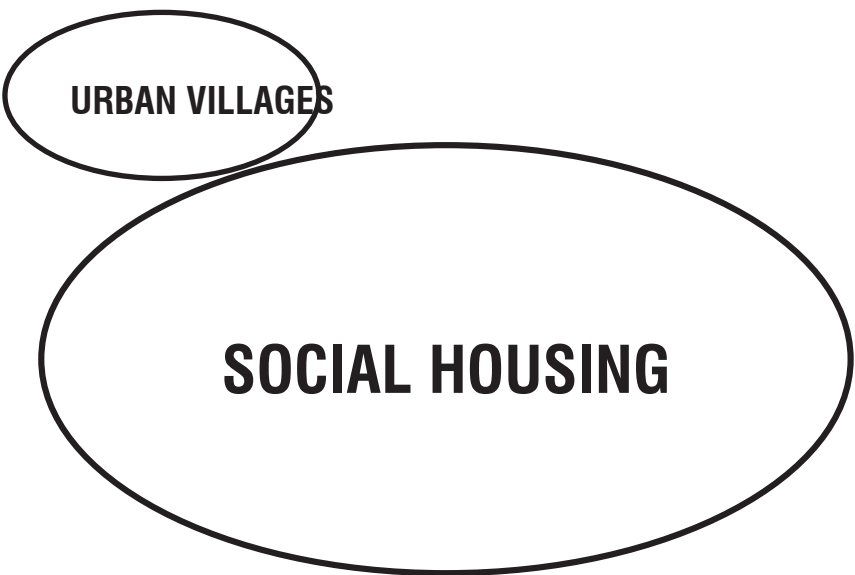
during transitional period



after transitional period

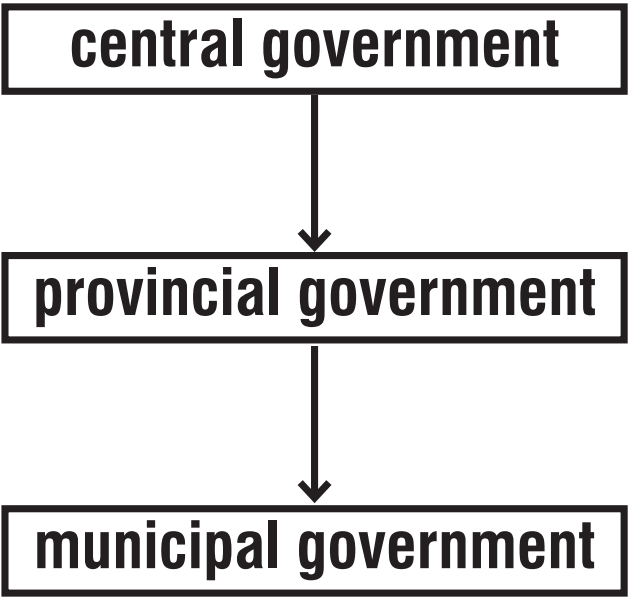


Role of housing the migrants and low-income citizens
During SHENZHEN transitional period

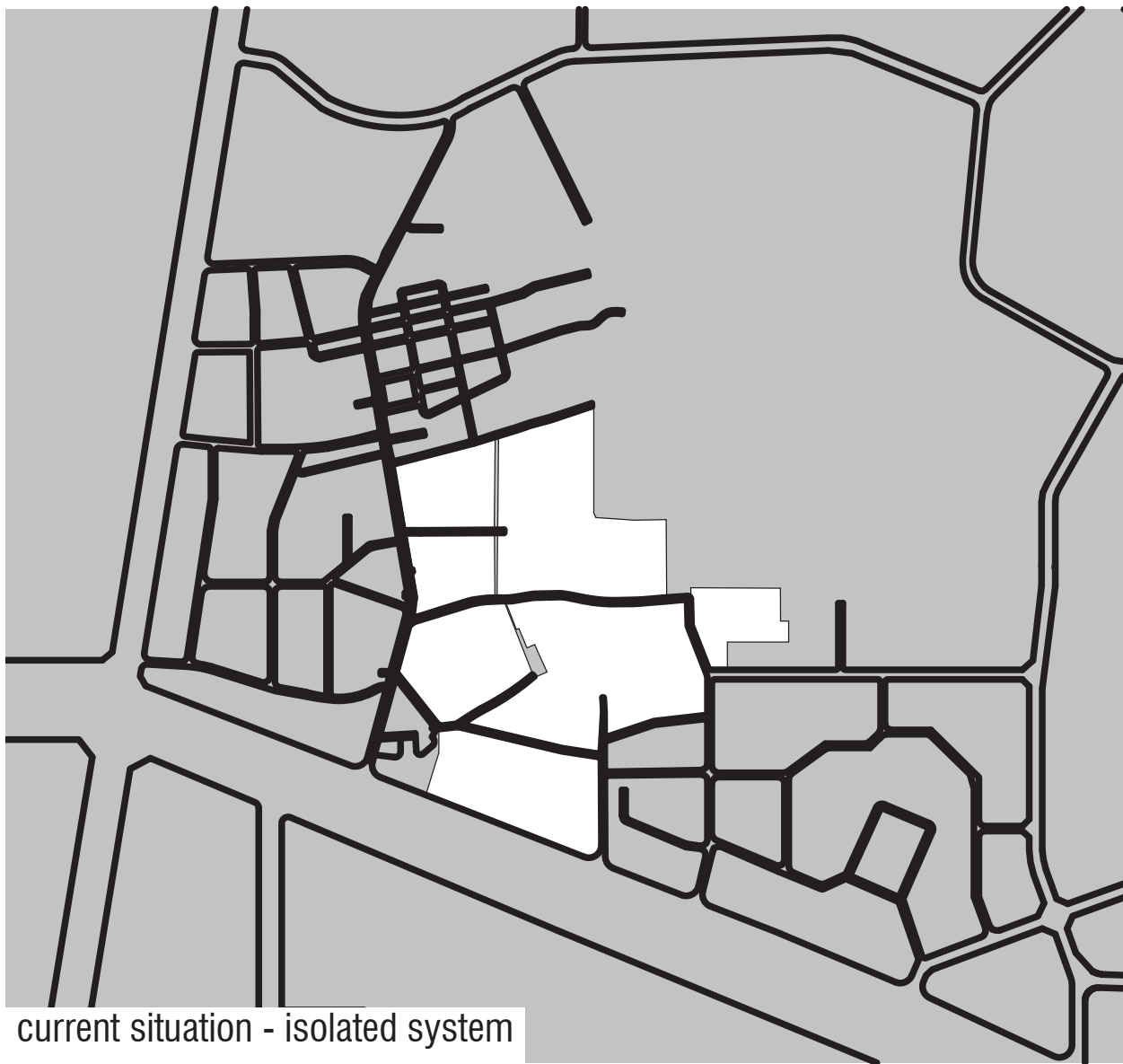


Role of housing the migrants and low-income citizens
After SHENZHEN transitional period

PARTNERSHIP



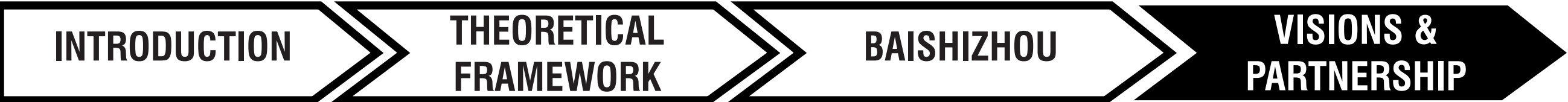
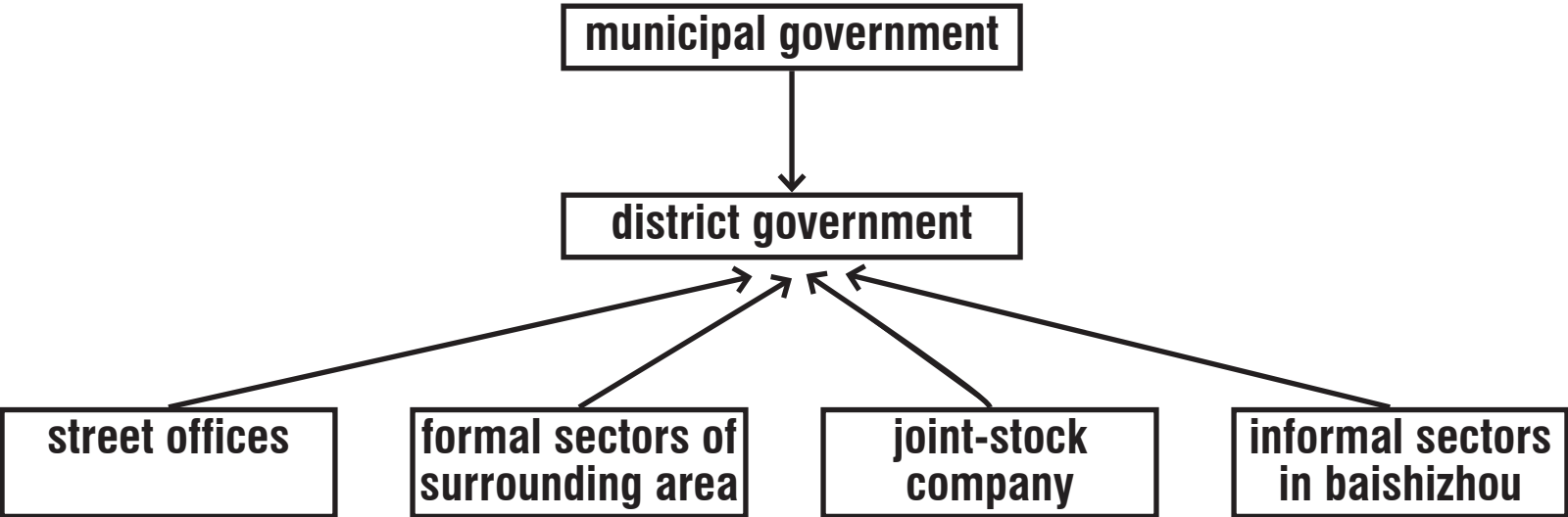
DISTRICT SCALE

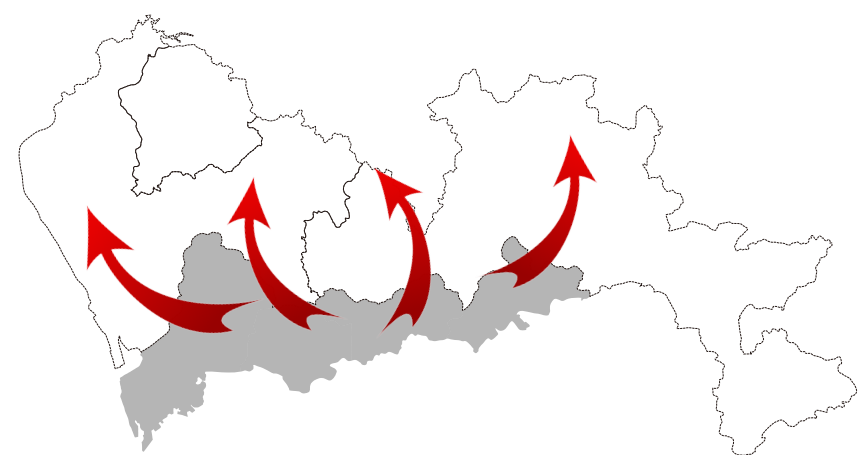


current situation - isolated system



vision - co-development with surrounding area





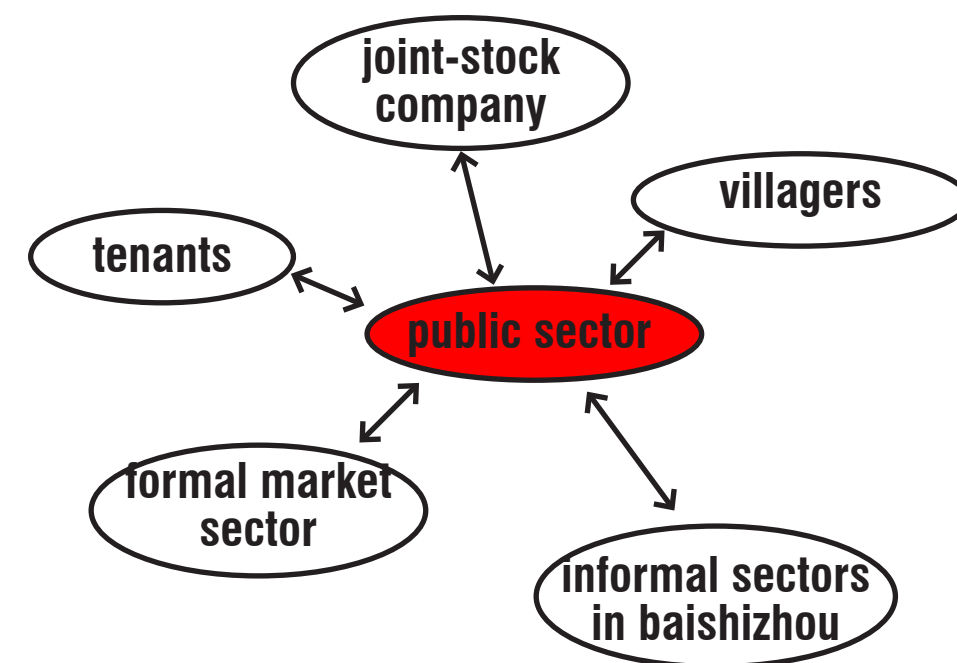
during transitional period



after transitional period



PARTNERSHIP

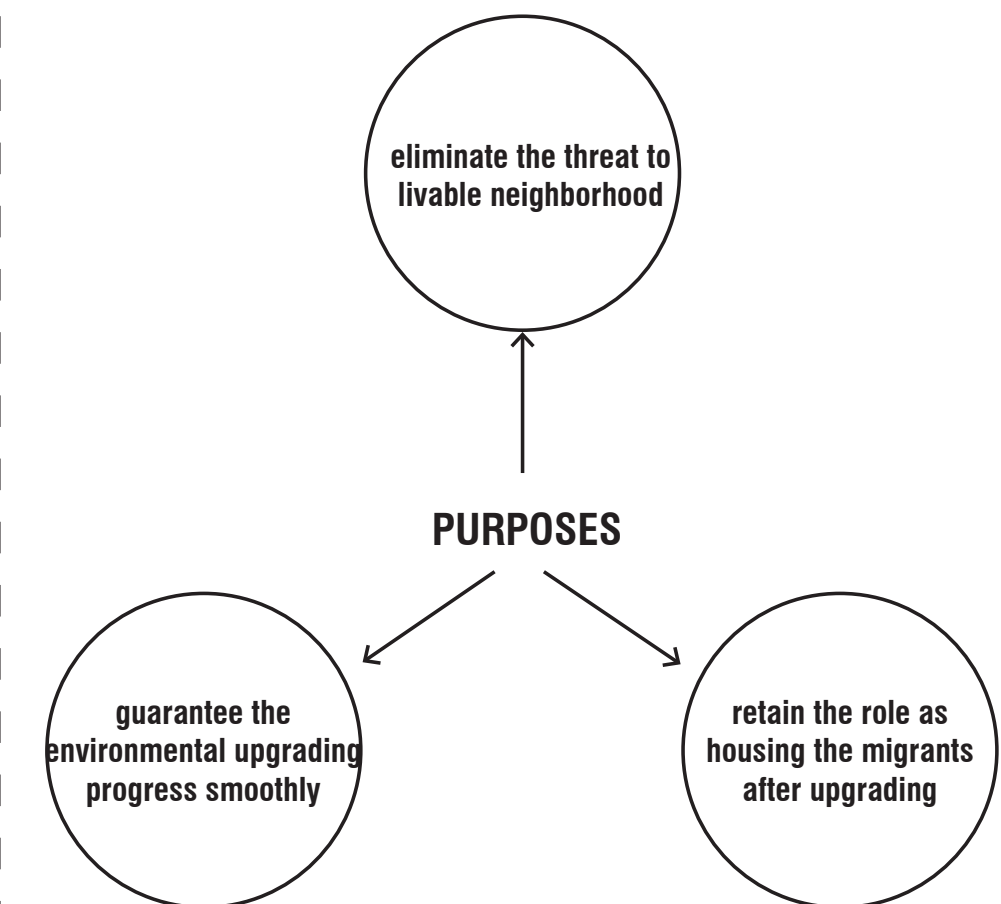
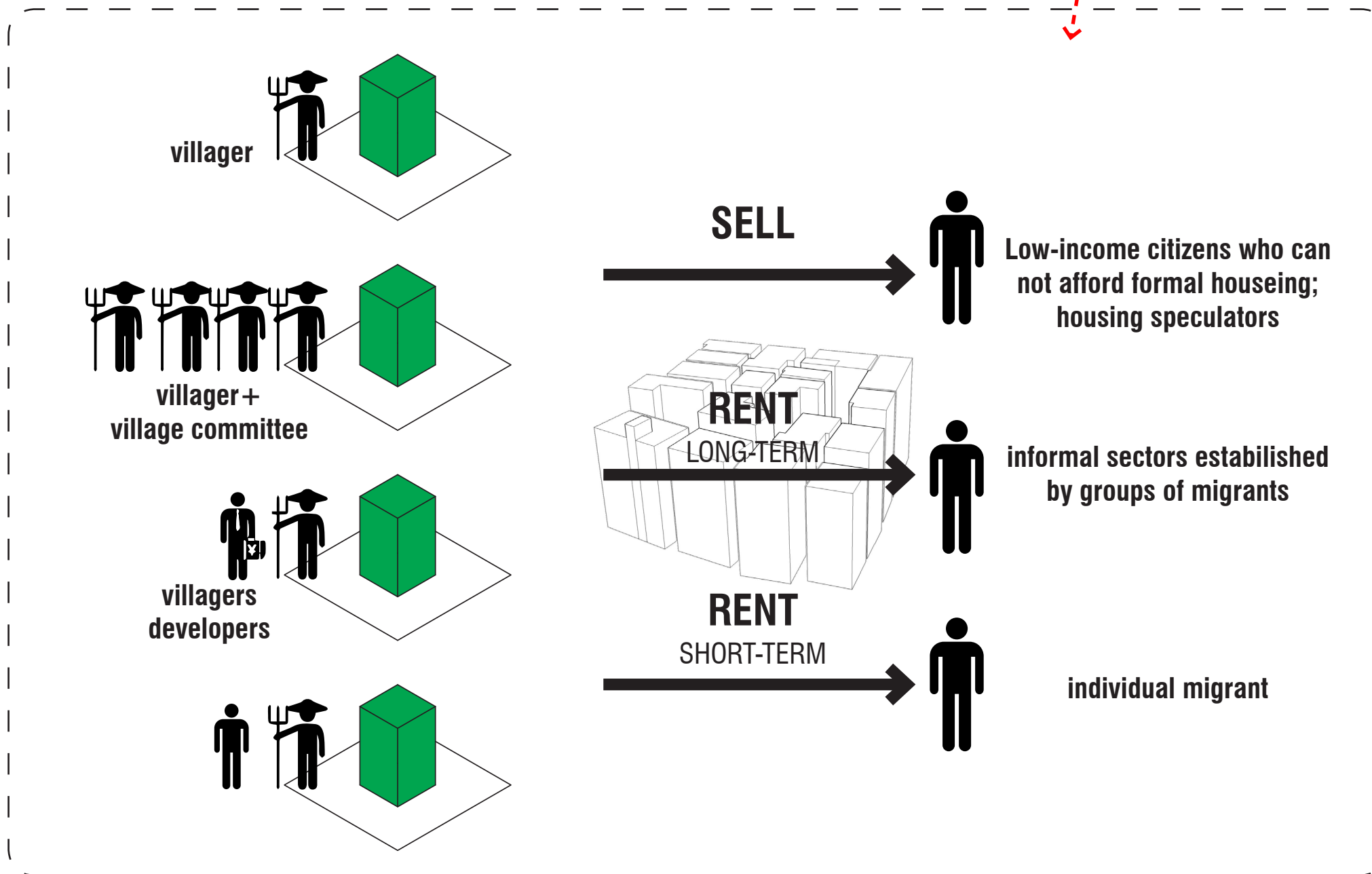
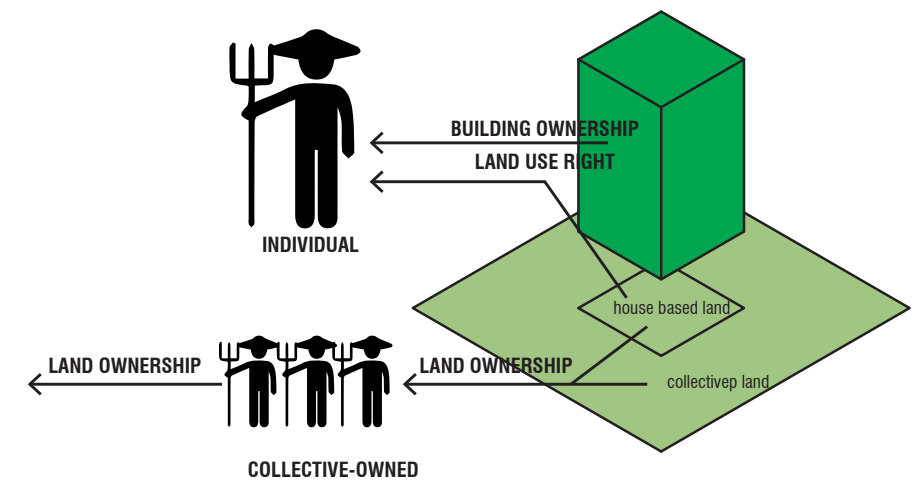


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VISIONS &
PARTNERSHIP



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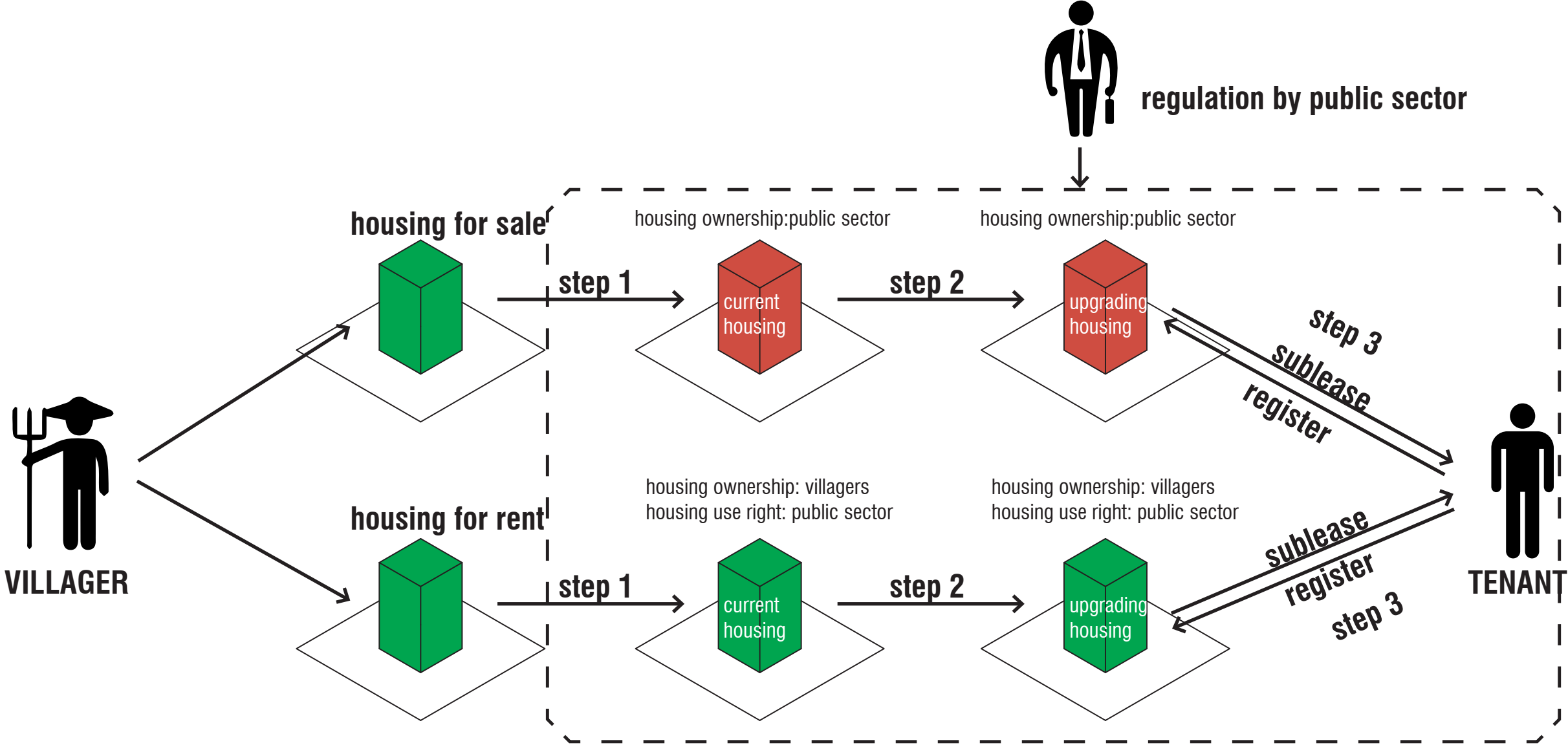
BAISHIZHOU

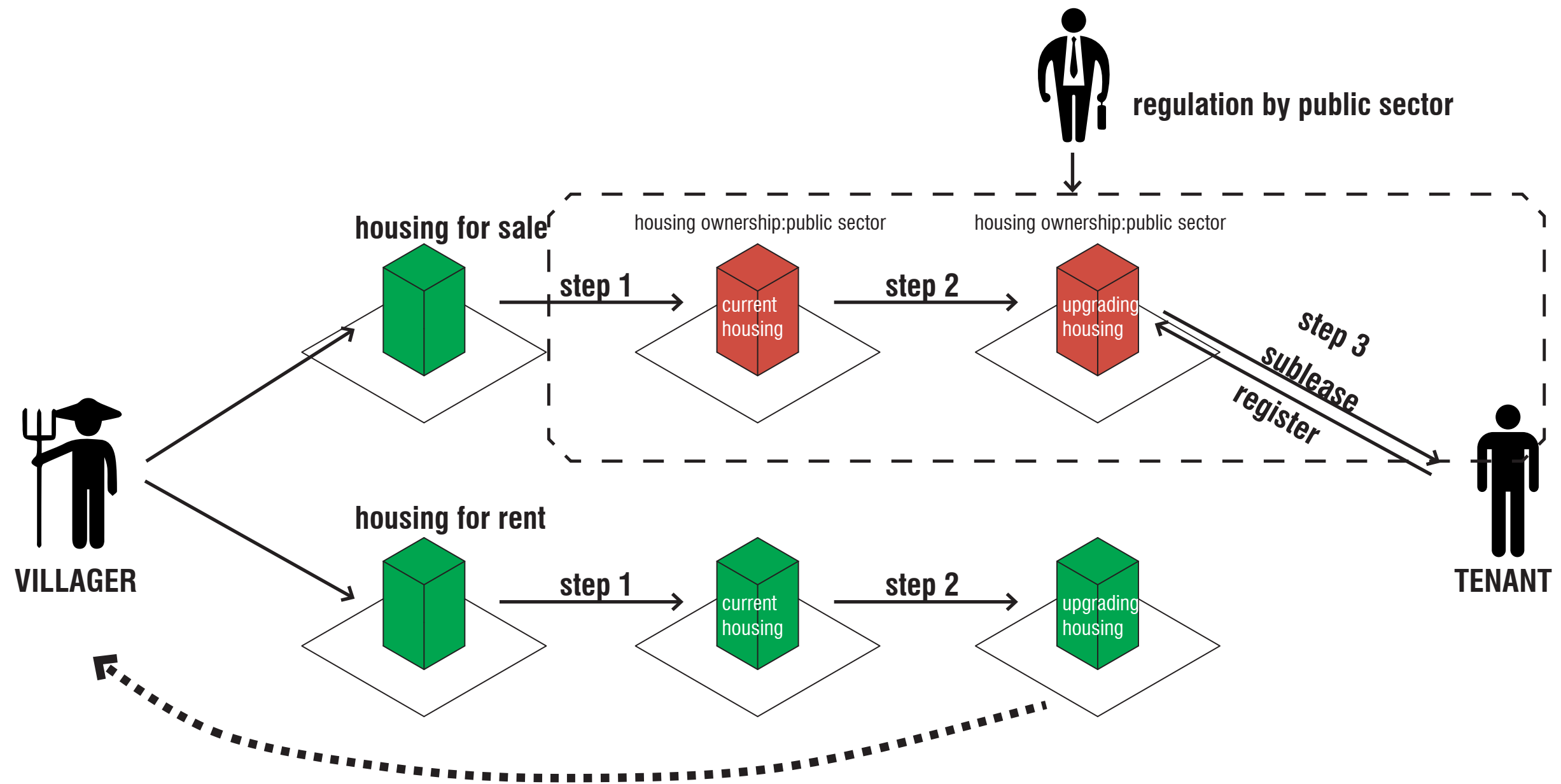
UPGRADING SYSTEM

STEP1. Building ownership OR building use right acquisition

STEP2. Living environment improvement

STEP3. Sublease to the tenants





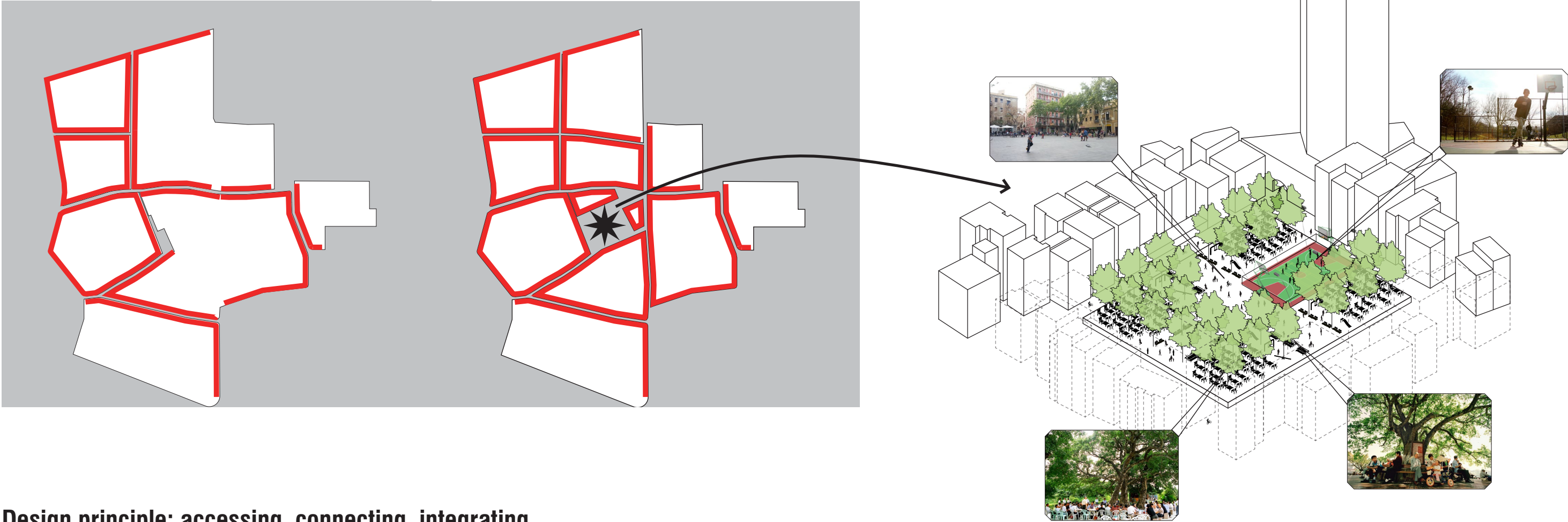
INTRODUCTION

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UPGRADING SYSTEM

The upgrading of infrastructure network (around the block)



Design principle: accessing, connecting, integrating

Integration of different actions:

Partnership of stakeholders:

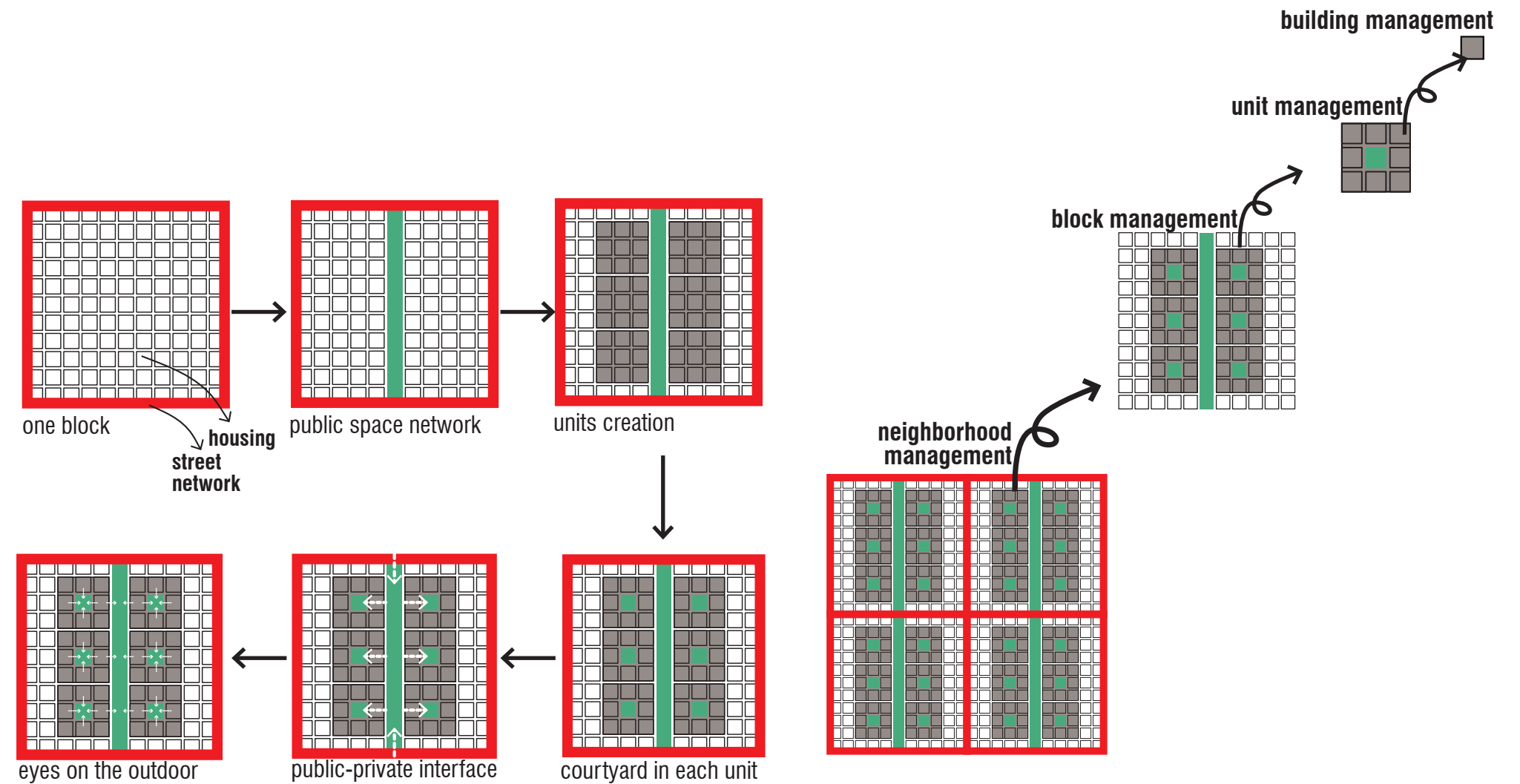
INTRODUCTION

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ACTIONS

The creation of public space network (go through the block)



Design principle:

different zones of privacy
public-private interface
eyes on the outdoor space
increase physical exercise and nature experience

Integration of different actions:

Partnership of stakeholders:

INTRODUCTION

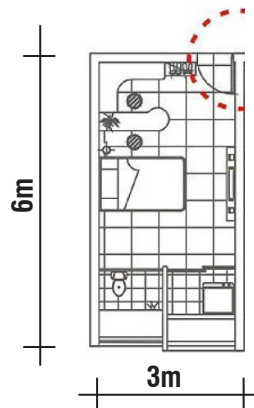
THEORETICAL
FRAMEWORK

BAISHIZHOU

ACTIONS

Adapting housing

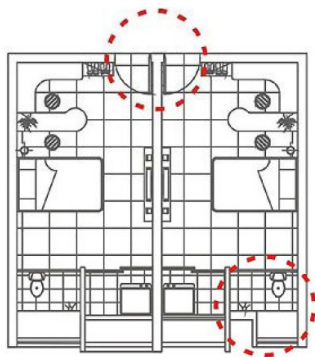
single unit plan



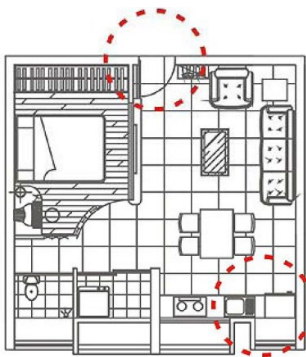
small and flexible design



integrate 2 single units

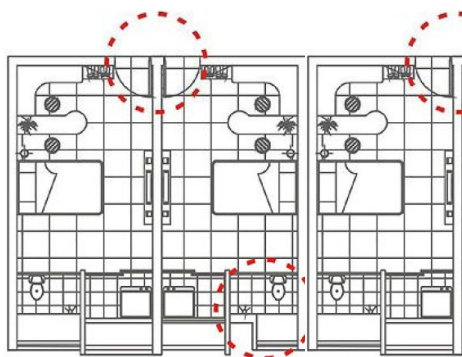


one bedroom & one living room

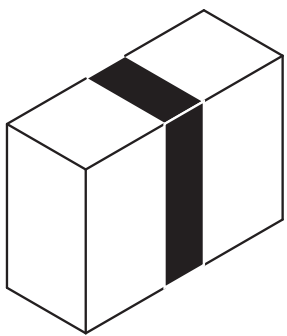
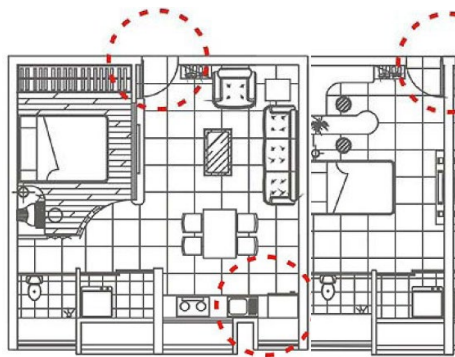


OR

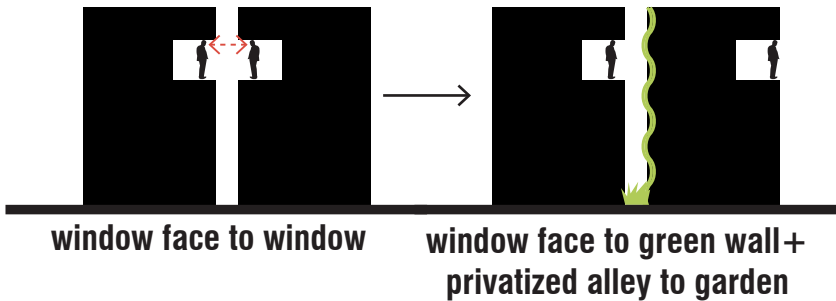
integrate 3 single units



two bedroom & one living room



buildings integration +
internal layout redesign



Design principle:

increase the single units,
Adaptive housing units.
privacy,
ventilation and lighting

Integration of different actions:

1. buildings integration
2. building facade ajustment
3. internal layout redesign

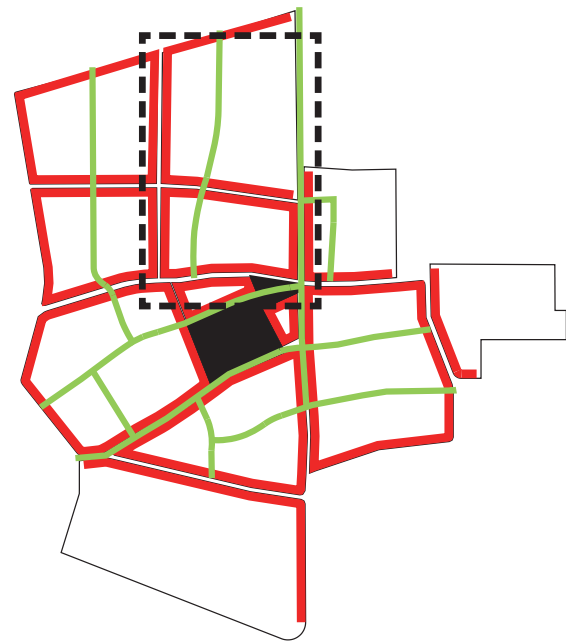
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ACTIONS

DESIGN PROCESS



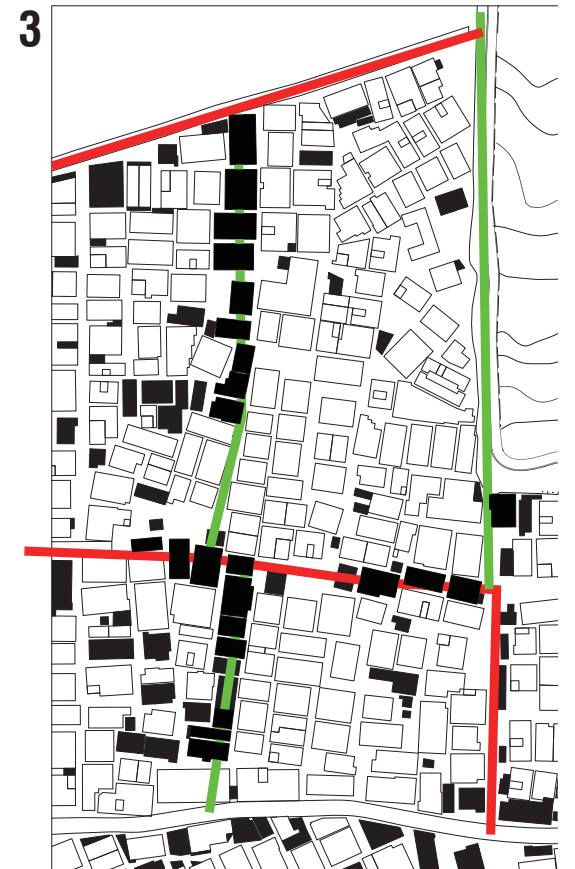
Block selection



1
Demolition of buildings with technical problems



2
New network intervention

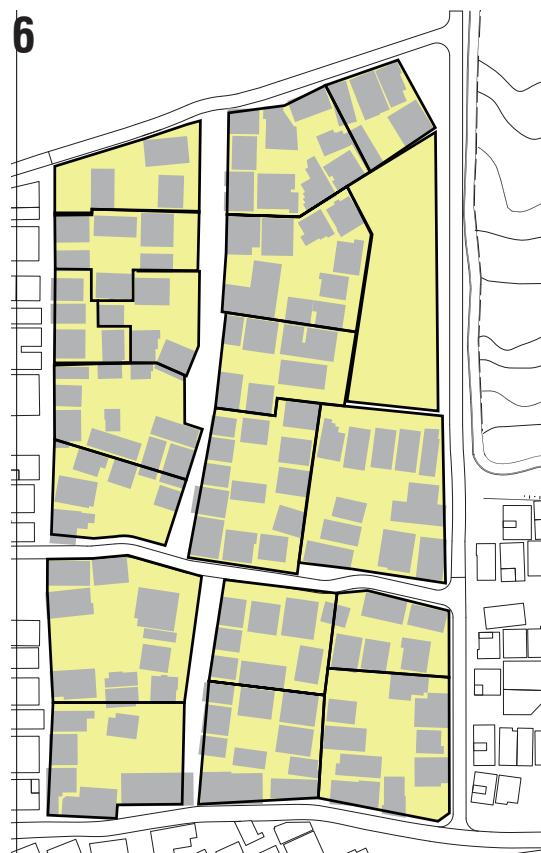


3
Demolition of buildings on the new network



7
new spatial structure

- renewal unit
- new unit
- commercial street
- greenway on the edge
- intermediate greenway
- readable entrance



6
Remaining buildings



5
Demolition of buildings in each group



4
Grouping remaining buildings

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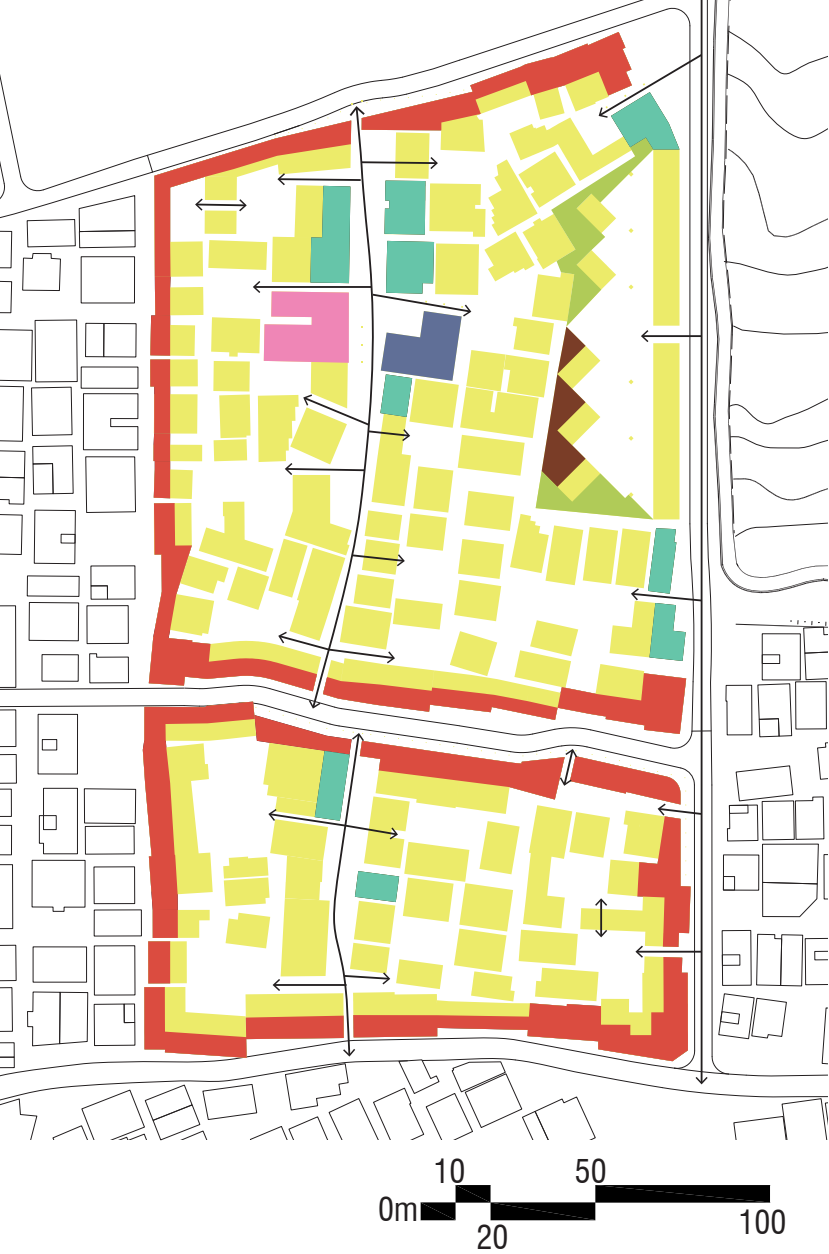
PLAN

GROUND FLOOR SPATIAL INTERVENTION



- groundfloor indoor
- remaining buildings
- fill with vertical green
- fill with privatized garden
- area with roof

GROUND FLOOR FUNCTION



- commercial
- residential
- workshop with showcase
- neighborhood center
- bike room
- green house

TOP PLAN



- new building
 - remaining building
 - building with one floor
 - area with roof
- the New construction should balance the demolition

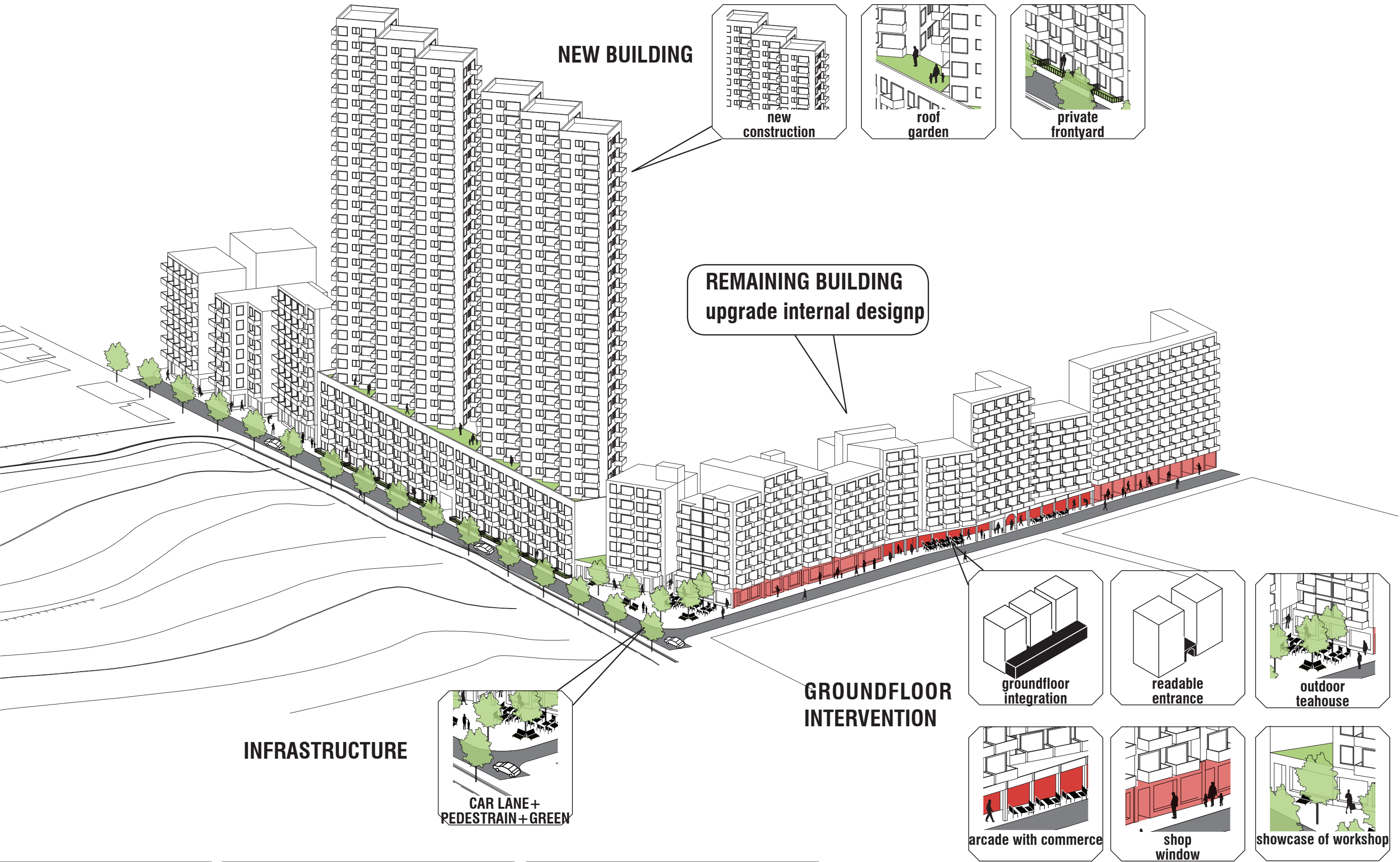
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Specific actions in strategic locations



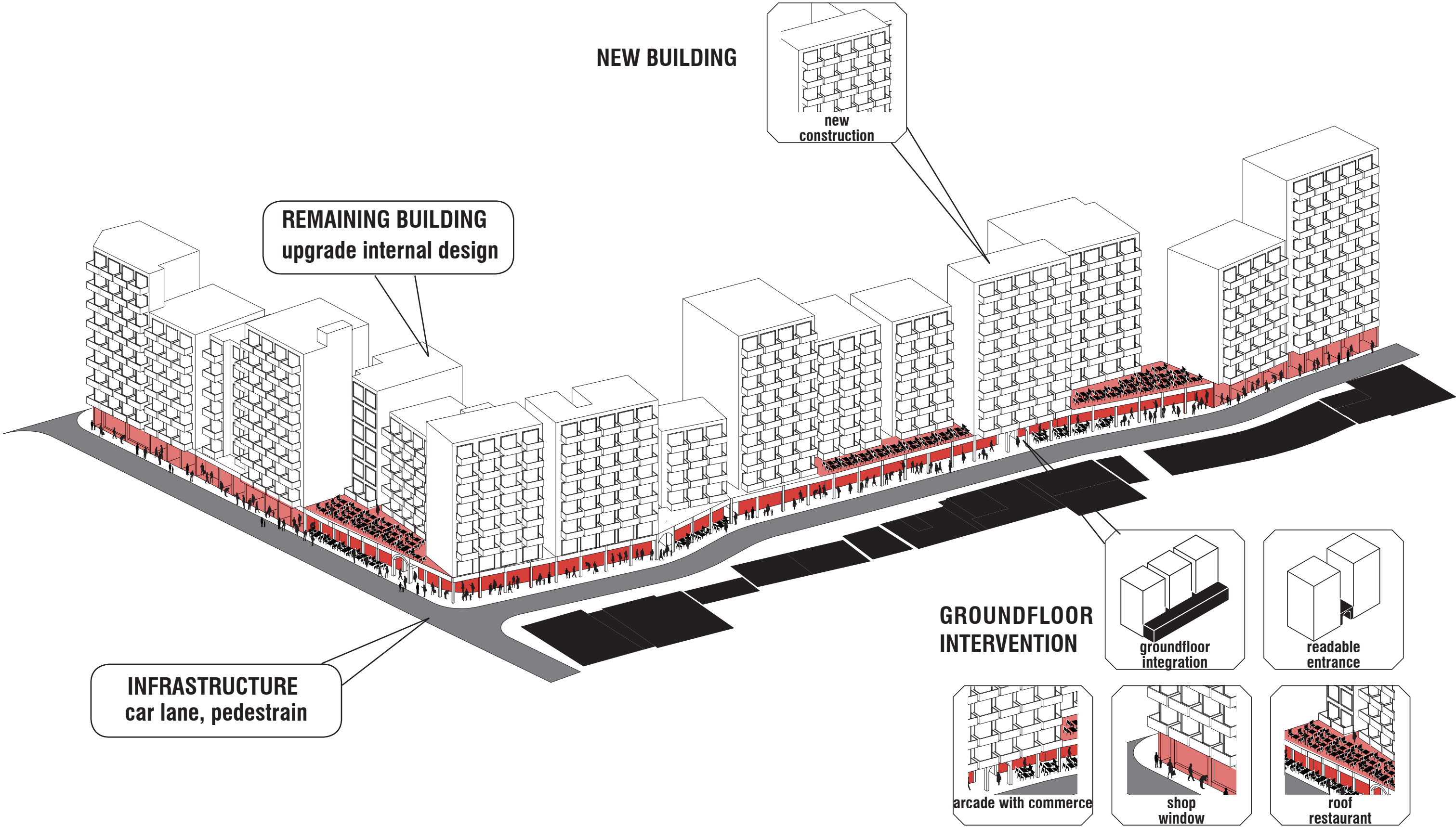
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Specific actions in strategic locations



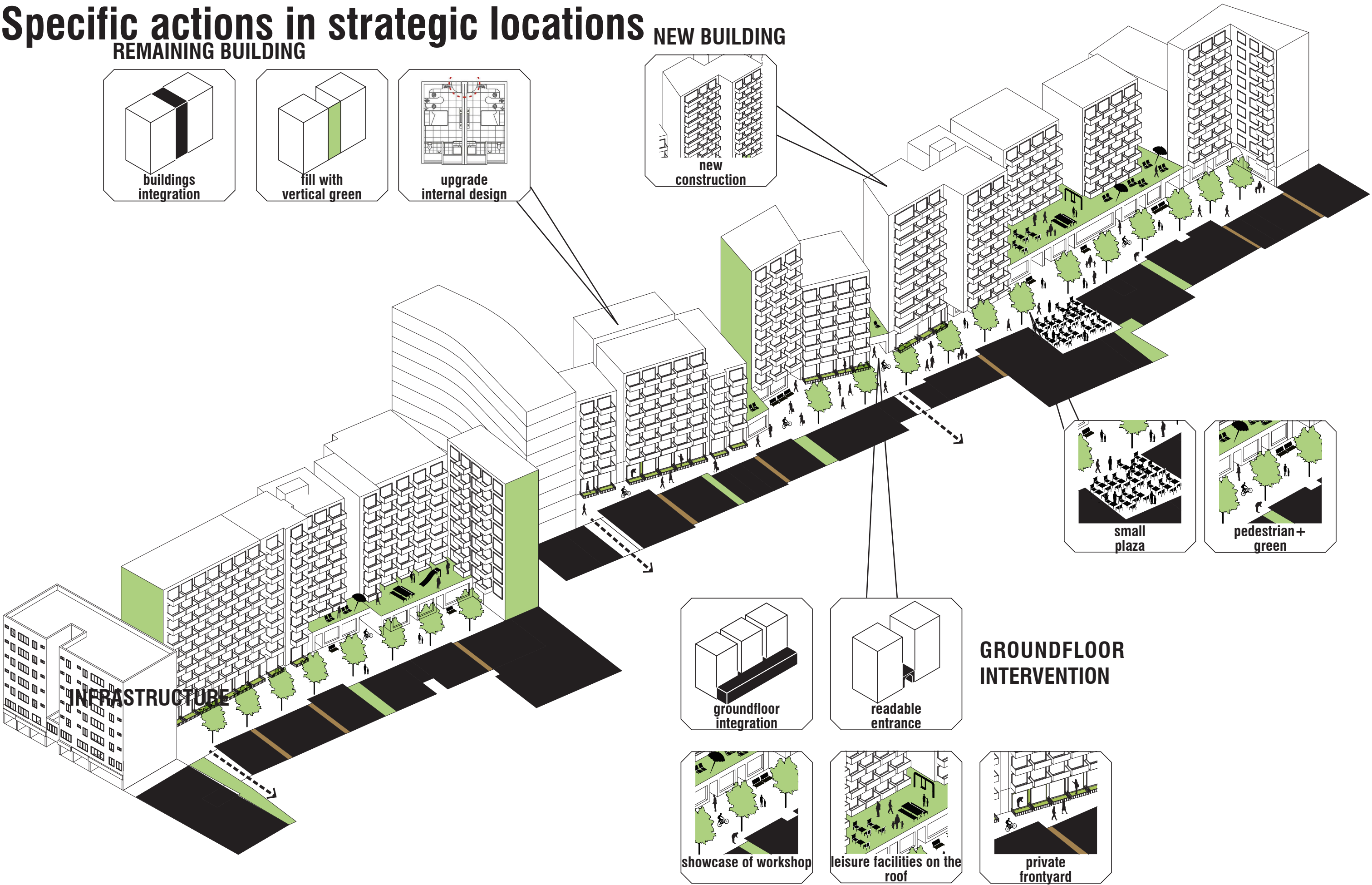
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Specific actions in strategic locations



Specific actions in strategic locations



COURTYARD INSIDE RENEWAL UNIT

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5. CONCLUSION

To balance the urban villiage redevelopment, the solution provided by SHENZHEN government is demolishing the urban villages in the central area and replacing with the high-end neighbourhood, then constructing large scale social housing neighbourhoods on the urban fringe to alleviate the affordable housing demand. In SHENZHEN context, the affordable housing demands are mainly from the migrants, which means the social housing can hardly alleviate the affordable housing demand because of the financial, land and institution constrains in the near future.

Therefore, it is still necessary to preserve and upgrade the urban villages then use them as effective tools to house the migrants. But the role of urban villages is not permanent and can be adaptive to the uncertain future. To upgrade the urban villages not only need solutions from spatial aspect, but also need to know the problems and opportunities of the current self-organizing system. The aim of the project is to transform the urban villages into liveable neighbourhoods through improving the living environment and dealing with both the problems and opportunities of self-organizing systems in urban villages, and retain their roles as housing the migrants during SHENZHEN transitional period.

To better deal with the complex stakeholder environment and the forces of the market during the urban villages upgrading process, a comprehensive strategy is require, and this planning approach should deal with the opportunities and problems of the self-organizing system as well as improve the living environment

To better deal with the complex stakeholder environment and the forces of the market during the urban villages upgrading process, a comprehensive strategy is require, and this strategy should deal with the opportunities and problems of the self-organizing system as well as improve the living environment.

The strategy combines visions and partnerships at different scale. upgrade the self-organizing system, the actions of living environment improvement. Then I choose one block as the strategic location to show how does the actions work together to improving the living environment

This strategy could also be used in other urban villages transformation in the SHENZHEN context.

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STRATEGY

CONCLUSION

THANK YOU!

