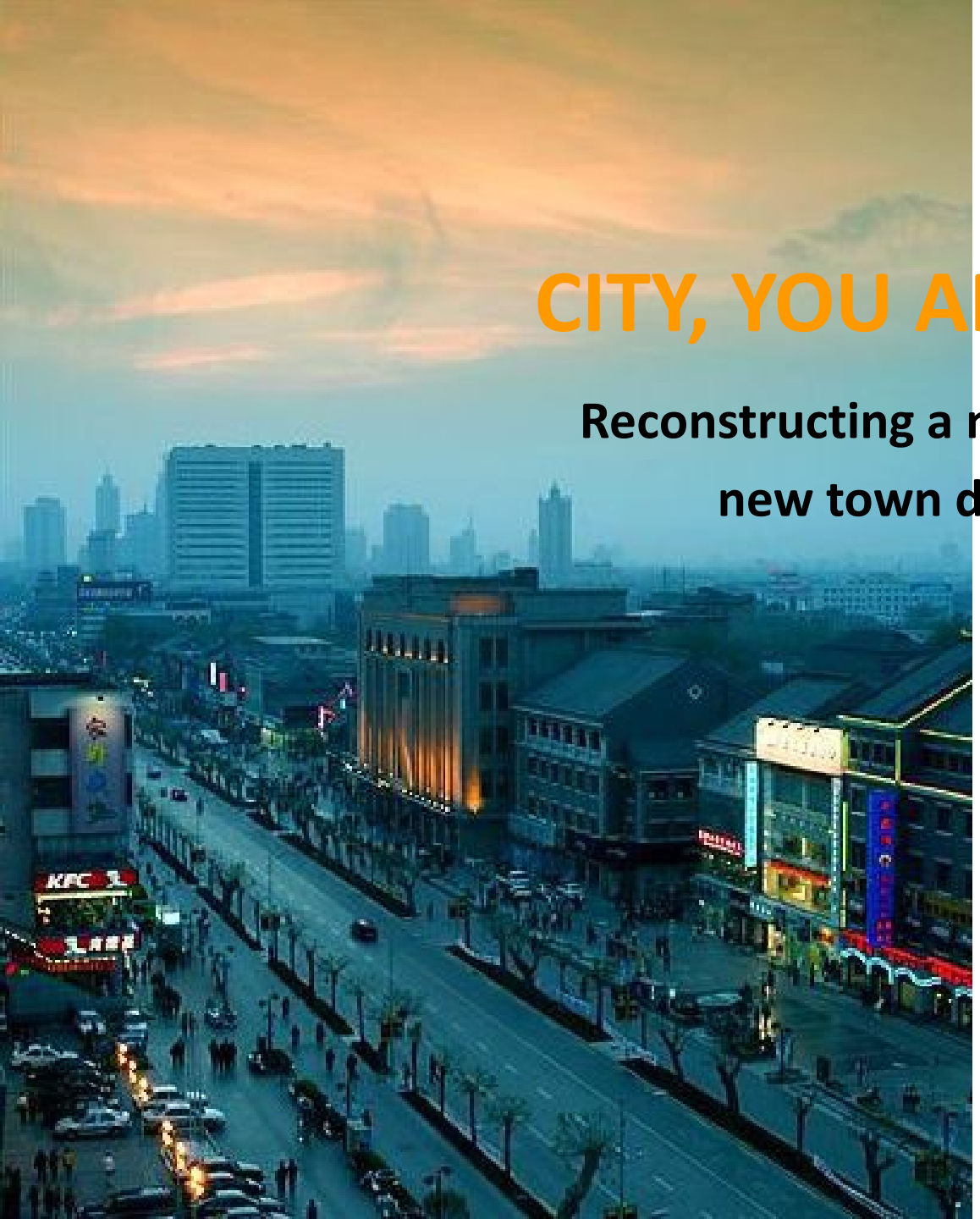


CITY, YOU ARE NOT ALONE !

Reconstructing a new public center system in new town development in Jinan, China

Jingya Wang

2011 Graduation

Complex city

P5 presentation

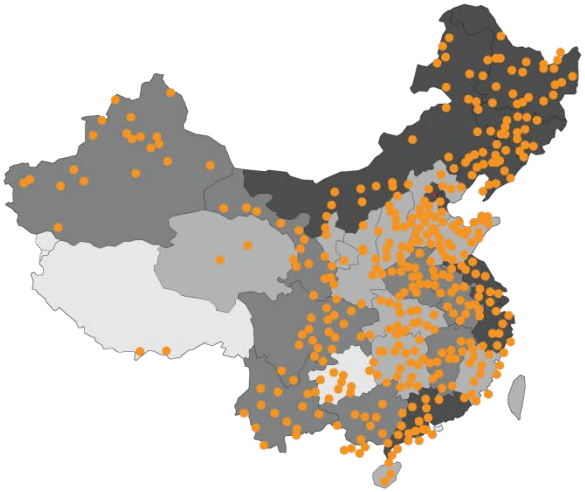
PUBLIC REALITY CENTER SYSTEM SUPERGRIDS GOVERN- MENT STADIUM PLANNING CENTTER HISTORICAL NEW TOWN

Contents

INTRODUCTION

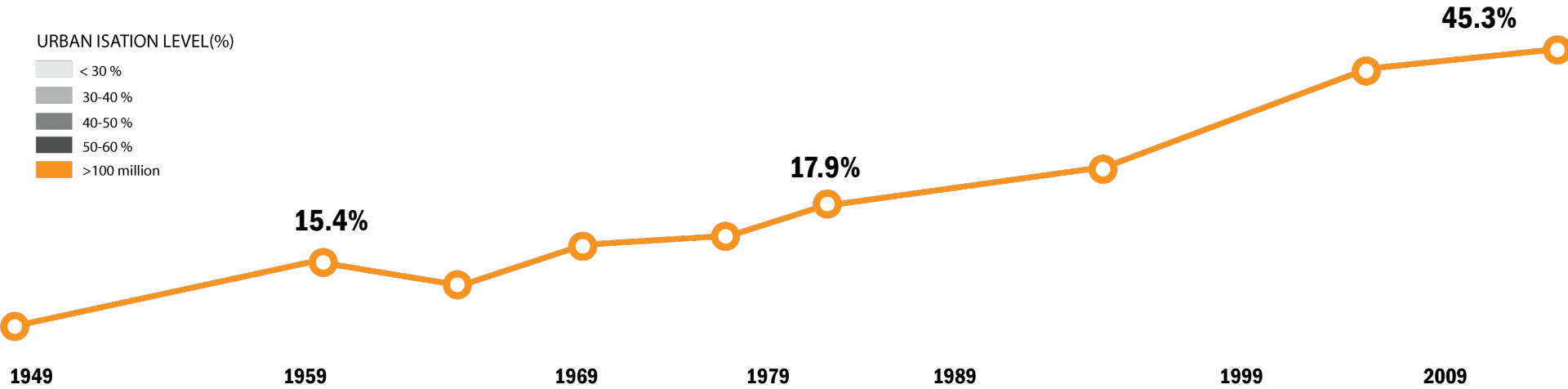
+370 million urban population (170-540 million)

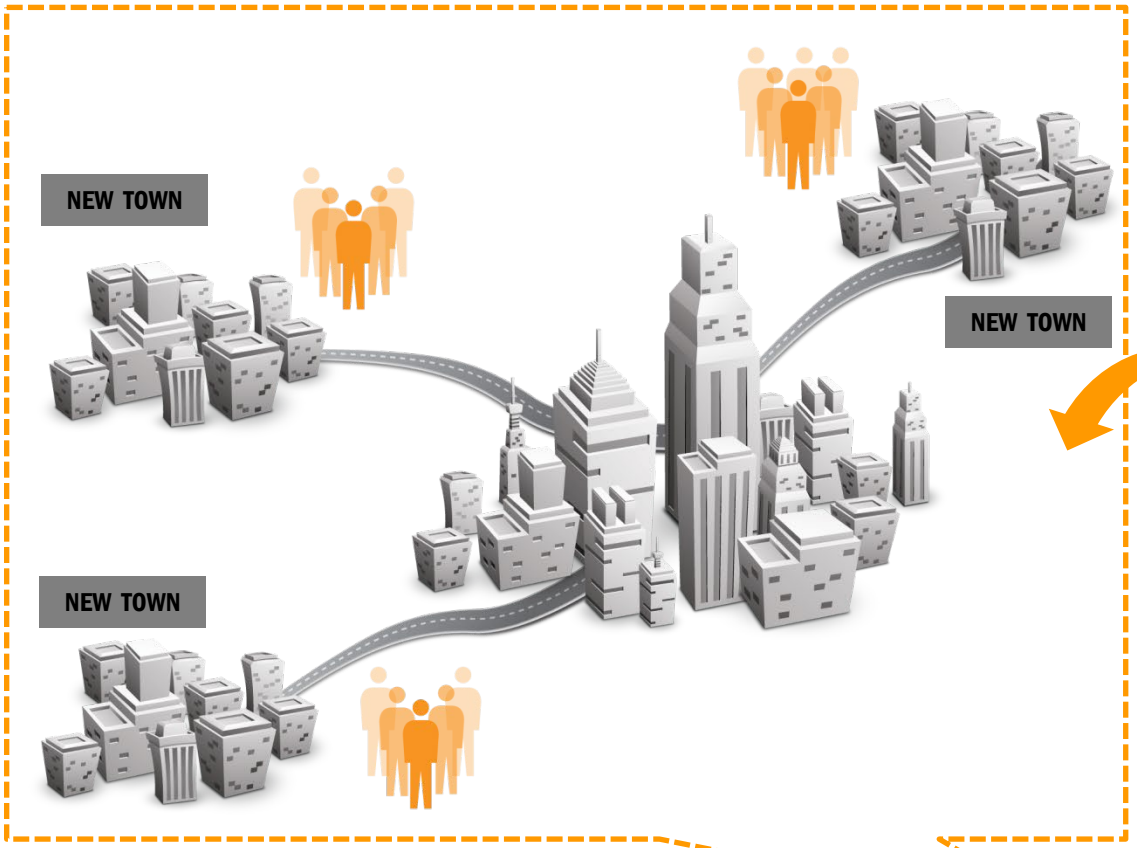
60 years (1949-now)



URBAN ISATION LEVEL(%)

- < 30 %
- 30-40 %
- 40-50 %
- 50-60 %
- >100 million

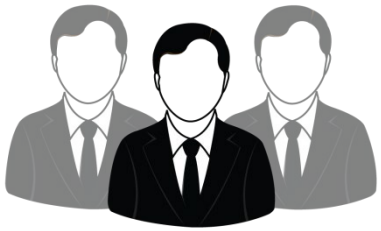




NEW TOWNS

GOVERNMENT IDEA

GOVERNMENT PLANNING

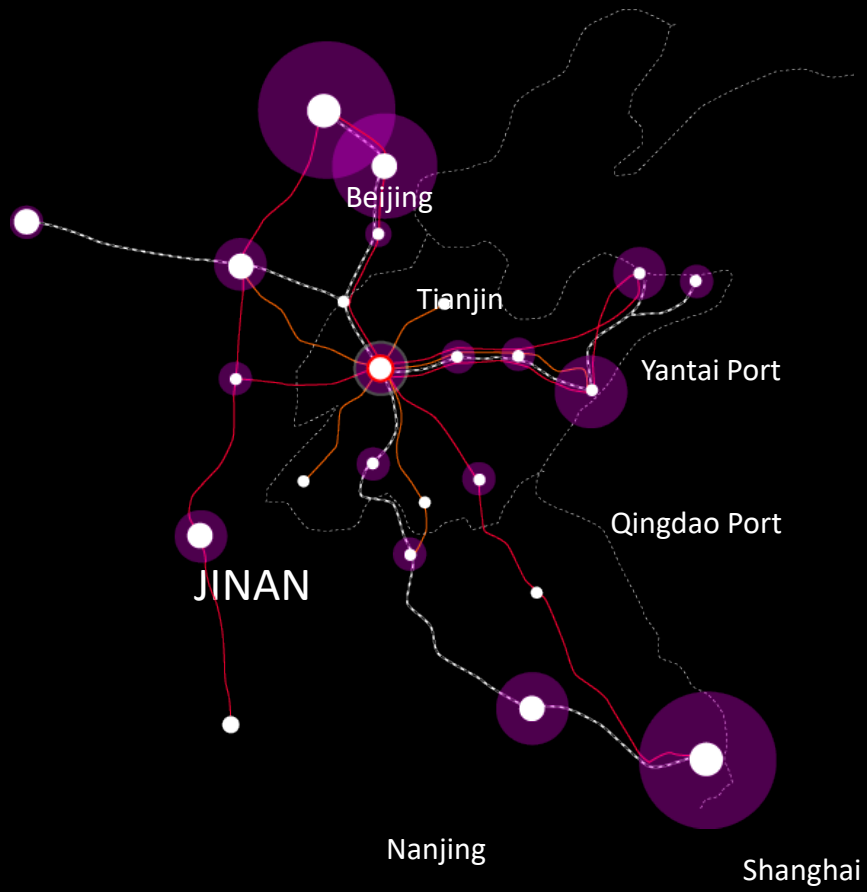


new town development **Public facilities-oriented**

Jinan, Shandong

Second tier city population 5 million

Strategic position

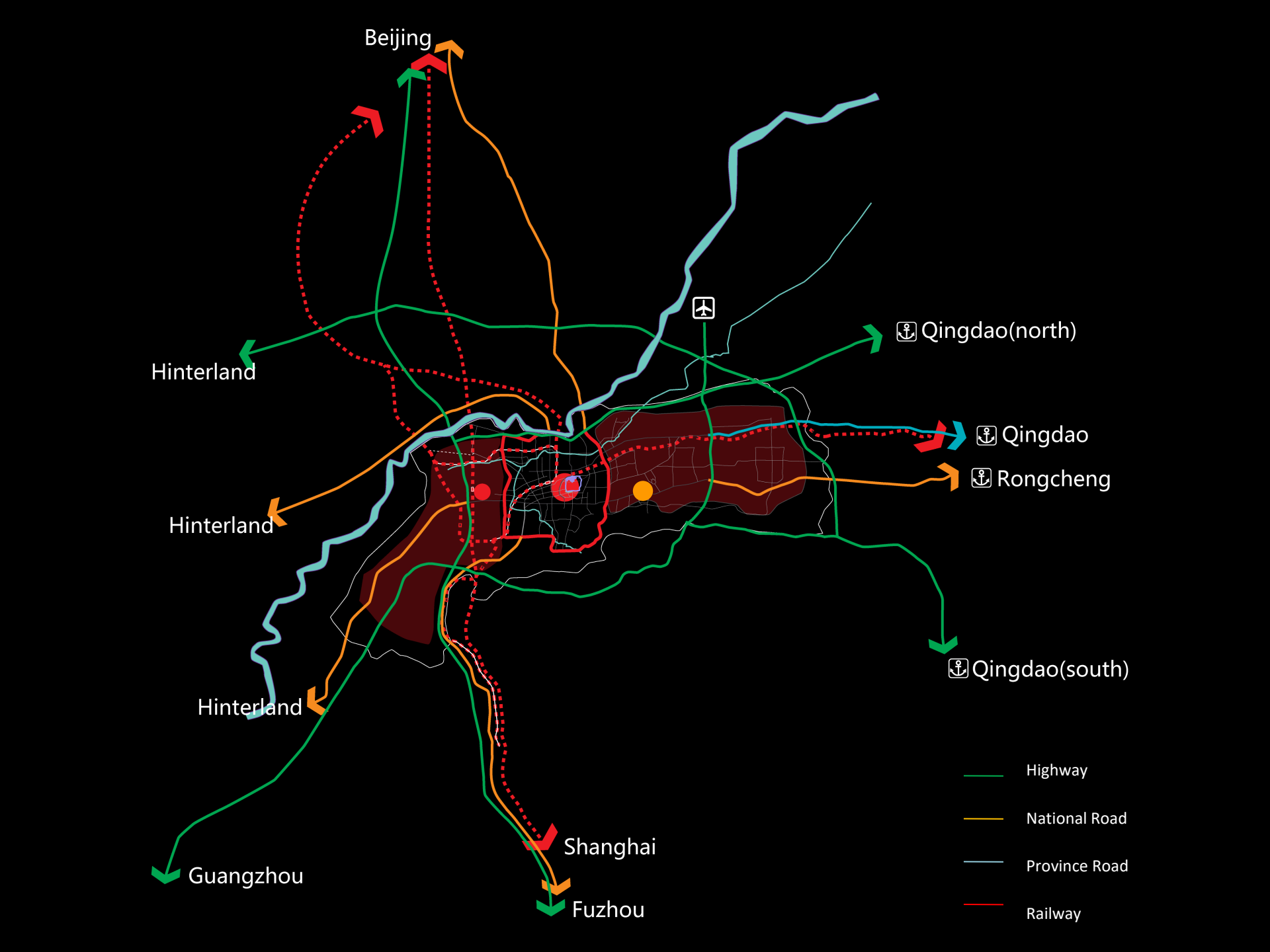


GDP $

2000 billion
1000 billion
700 billion
500 billion
400 billion
200 billion

Big city
Capital city
Normal city

National road (highway)
Province road


Beijing
Hinterland
Hinterland
Hinterland
Qingdao(north)
Qingdao
Rongcheng
Qingdao(south)
Shanghai
Fuzhou
Guangzhou
Highway
National Road
Province Road
Railway

BEFORE (GOVERNMENT PLANNING)

AFTER (REALITY)

Big event:28 cleaners
Now:7 cleaners

Big event: thousands visitors
Now: 20 visitors(weekday)

Benefit-cost=-800,000euro/year

Cleaner: Aimei Sun (work here for 2years)
(interviewed by *Qilu Evening News* 2010-10-15

Government planning

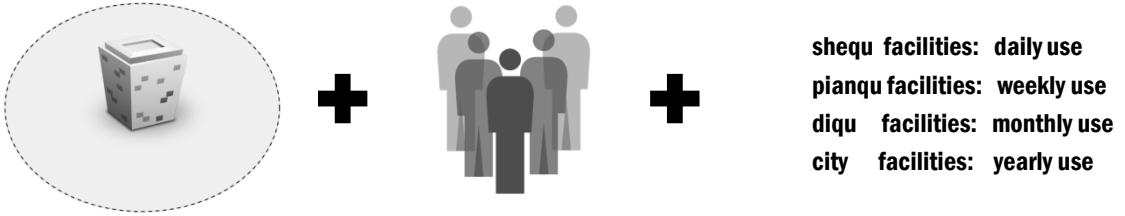
Public center system planning

Scale as tool

to ingegrate historical city and new towns development

7 Categaries

3 Pinciples



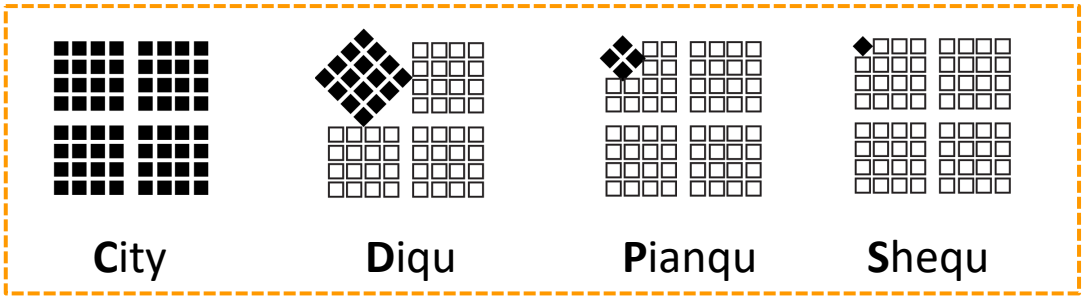
Catchment area

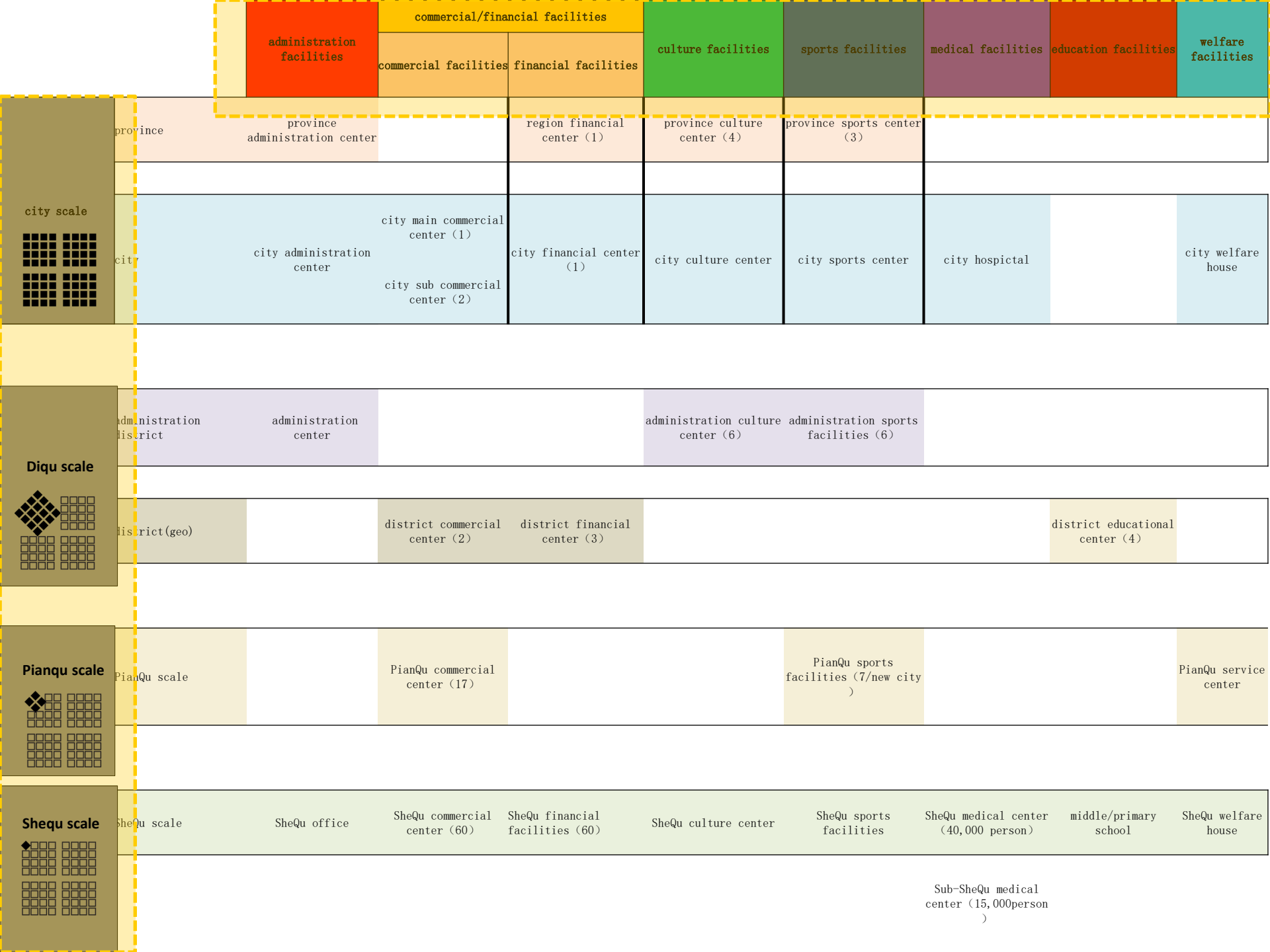
Sevice population

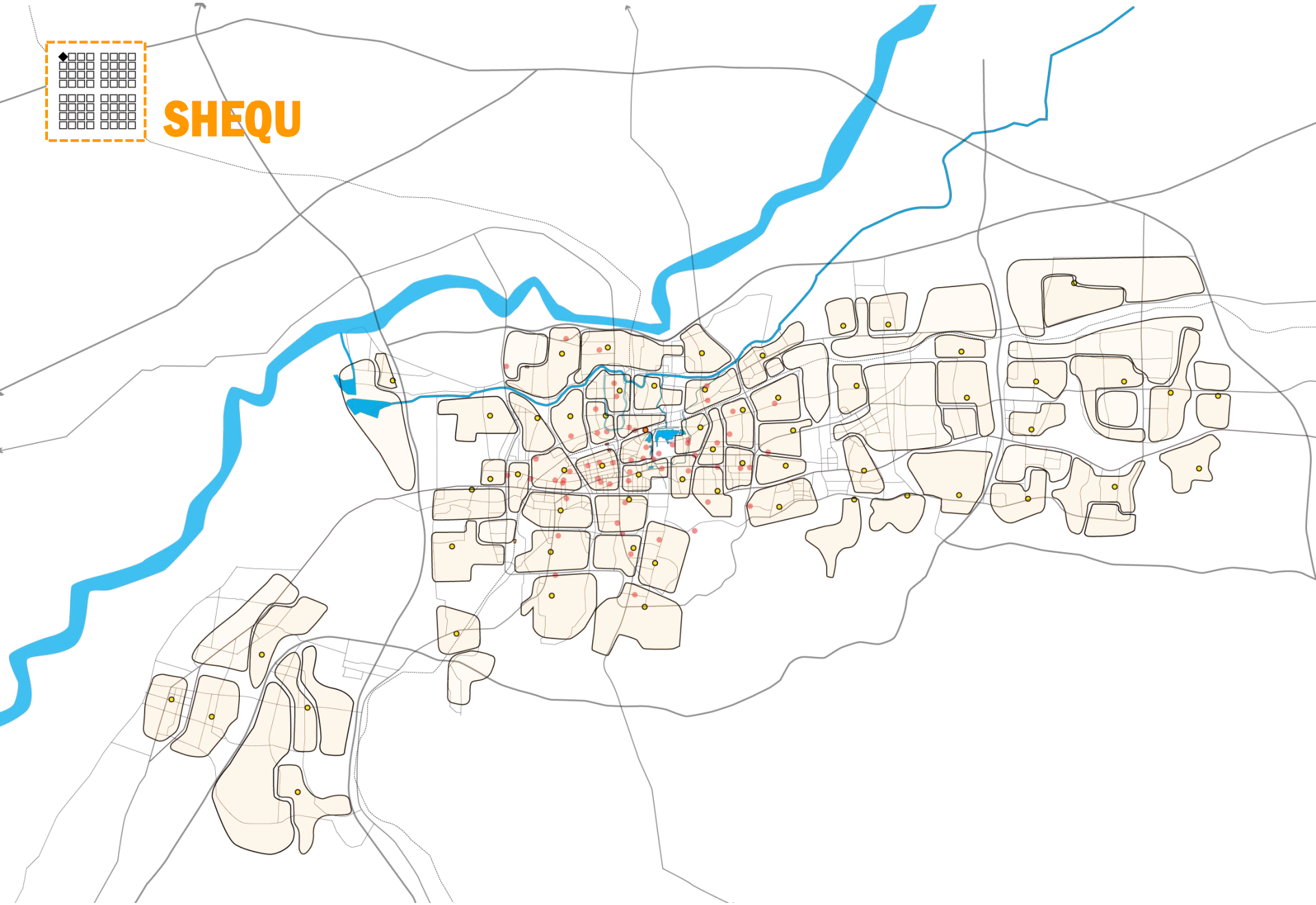
Using frequency

shequ facilities: daily use
pianqu facilities: weekly use
diqu facilities: monthly use
city facilities: yearly use

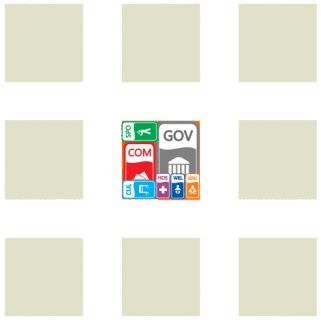
4 Scales

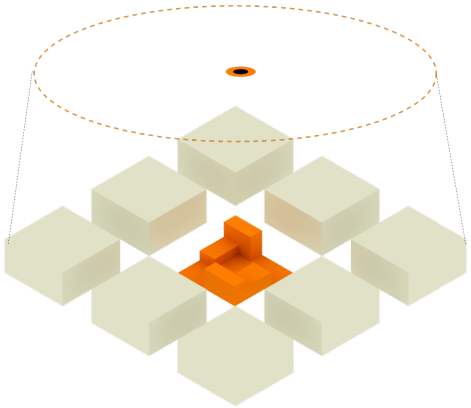



administration facilities
commercial/financial facilities
commercial facilities
financial facilities
culture facilities
sports facilities
medical facilities
education facilities
welfare facilities
city scale
province
province administration center
region financial center (1)
province culture center (4)
province sports center (3)
city
city administration center
city main commercial center (1)
city sub commercial center (2)
city financial center (1)
city culture center
city sports center
city hospictal
city welfare house
Diqu scale
administration district
administration center
administration culture center (6)
administration sports facilities (6)
district(geo)
district commercial center (2)
district financial center (3)
district educational center (4)
Pianqu scale
PianQu scale
PianQu commercial center (17)
PianQu sports facilities (7/new city)
PianQu service center
Shequ scale
SheQu scale
SheQu office
SheQu commercial center (60)
SheQu financial facilities (60)
SheQu culture center
SheQu sports facilities
SheQu medical center (40,000 person)
middle/primary school
SheQu welfare house
Sub-SheQu medical center (15,000person)


SHEQU

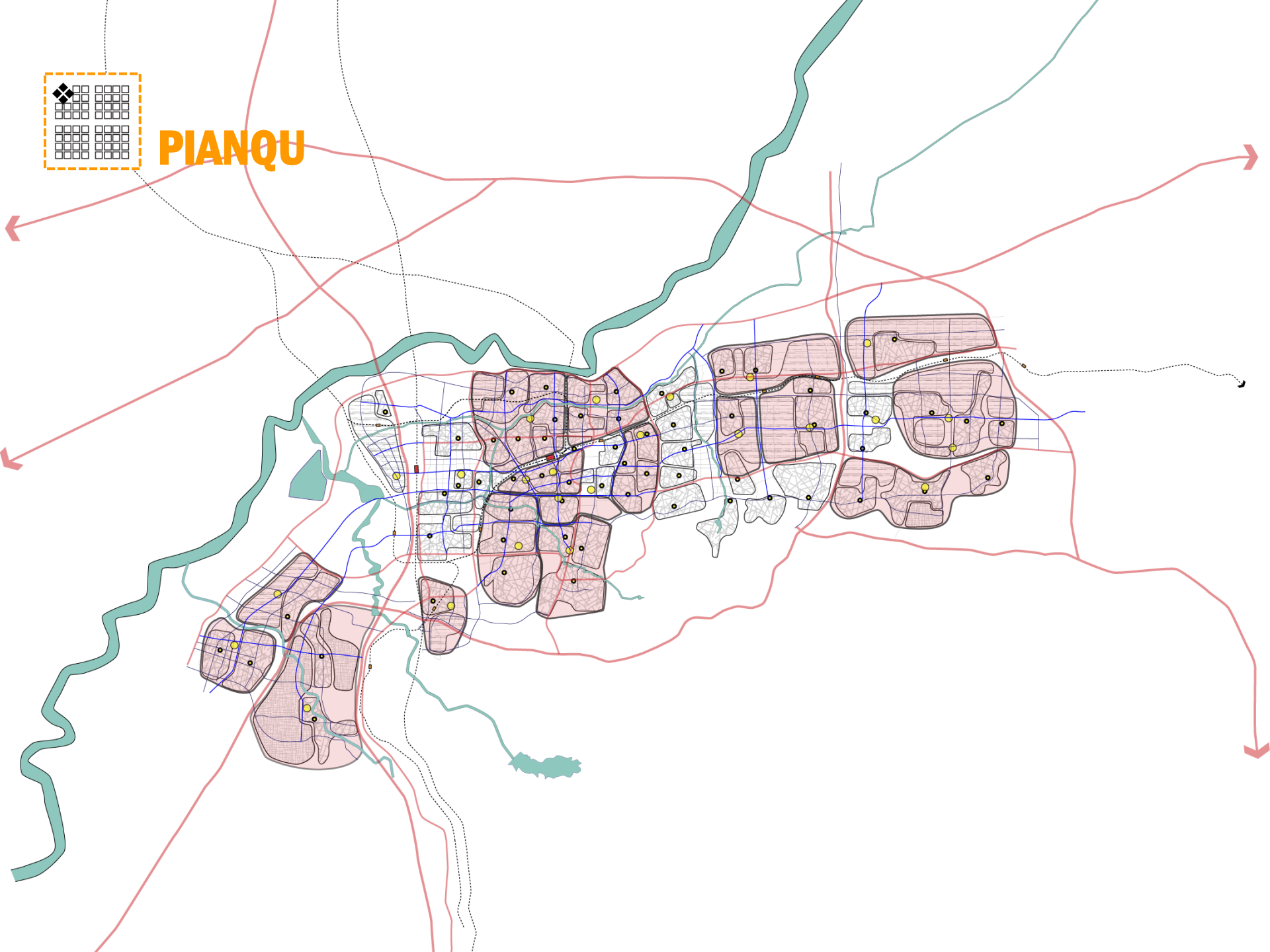
SHEQU



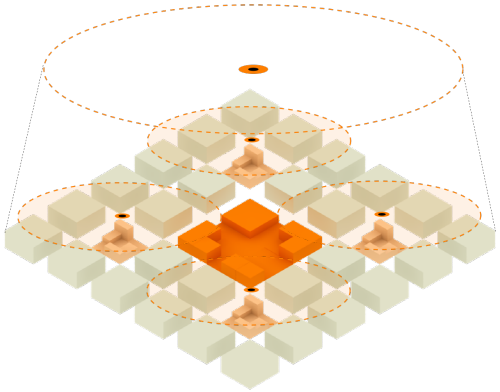


GOV CUL SPO WEL HOS COM EDU

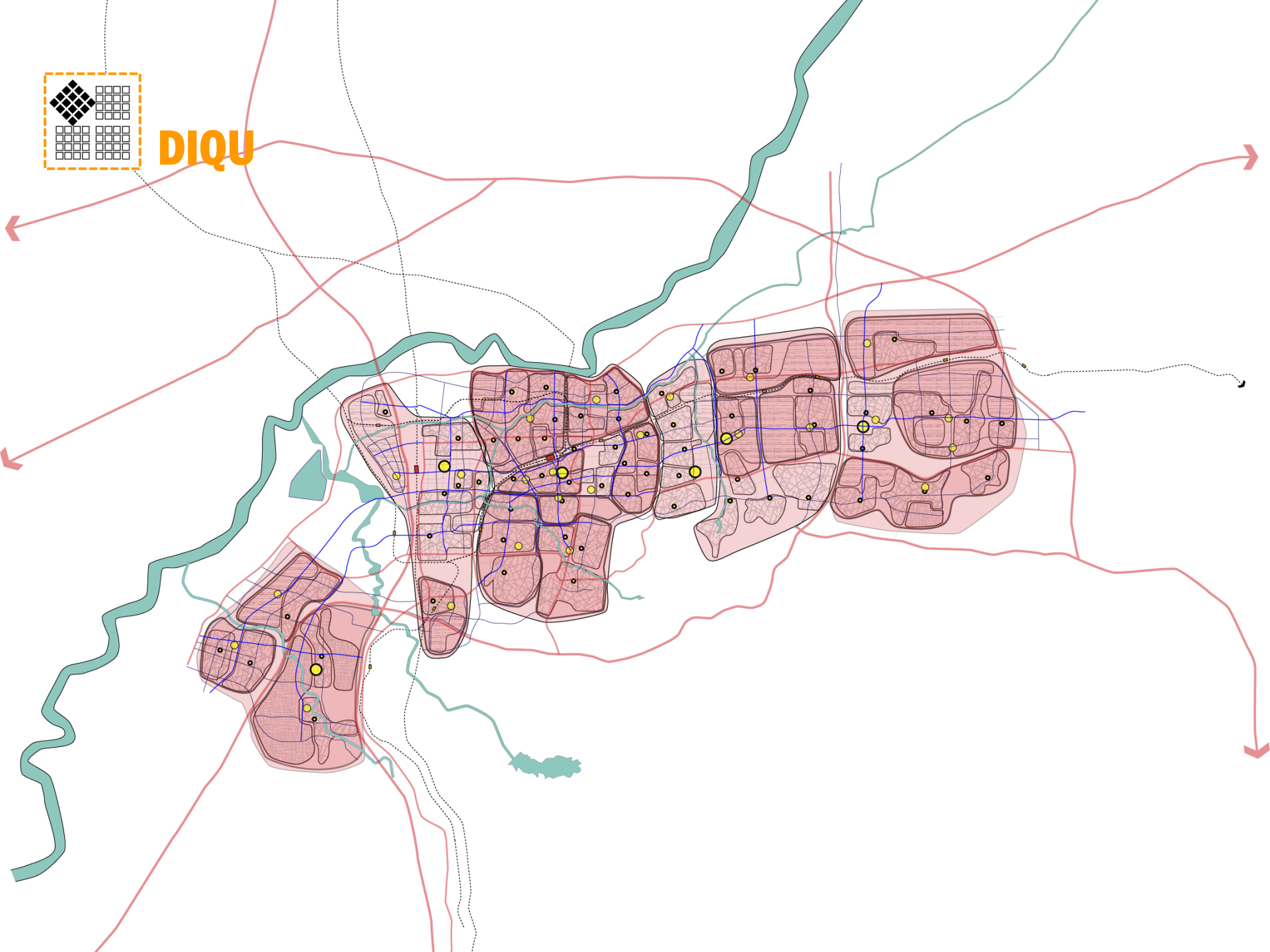
Papulation: 50,000-70,000


PIANQU

PIANQU



Papulation: 150,000-200,000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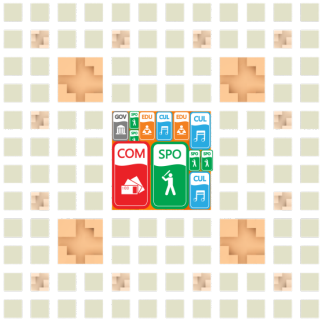
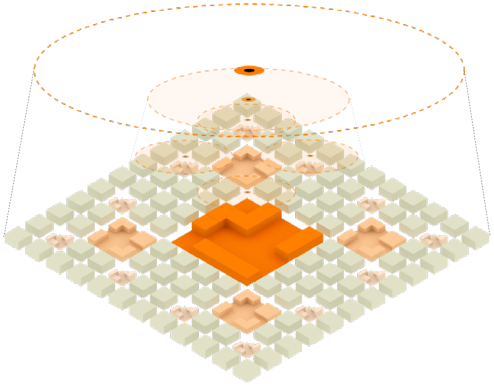
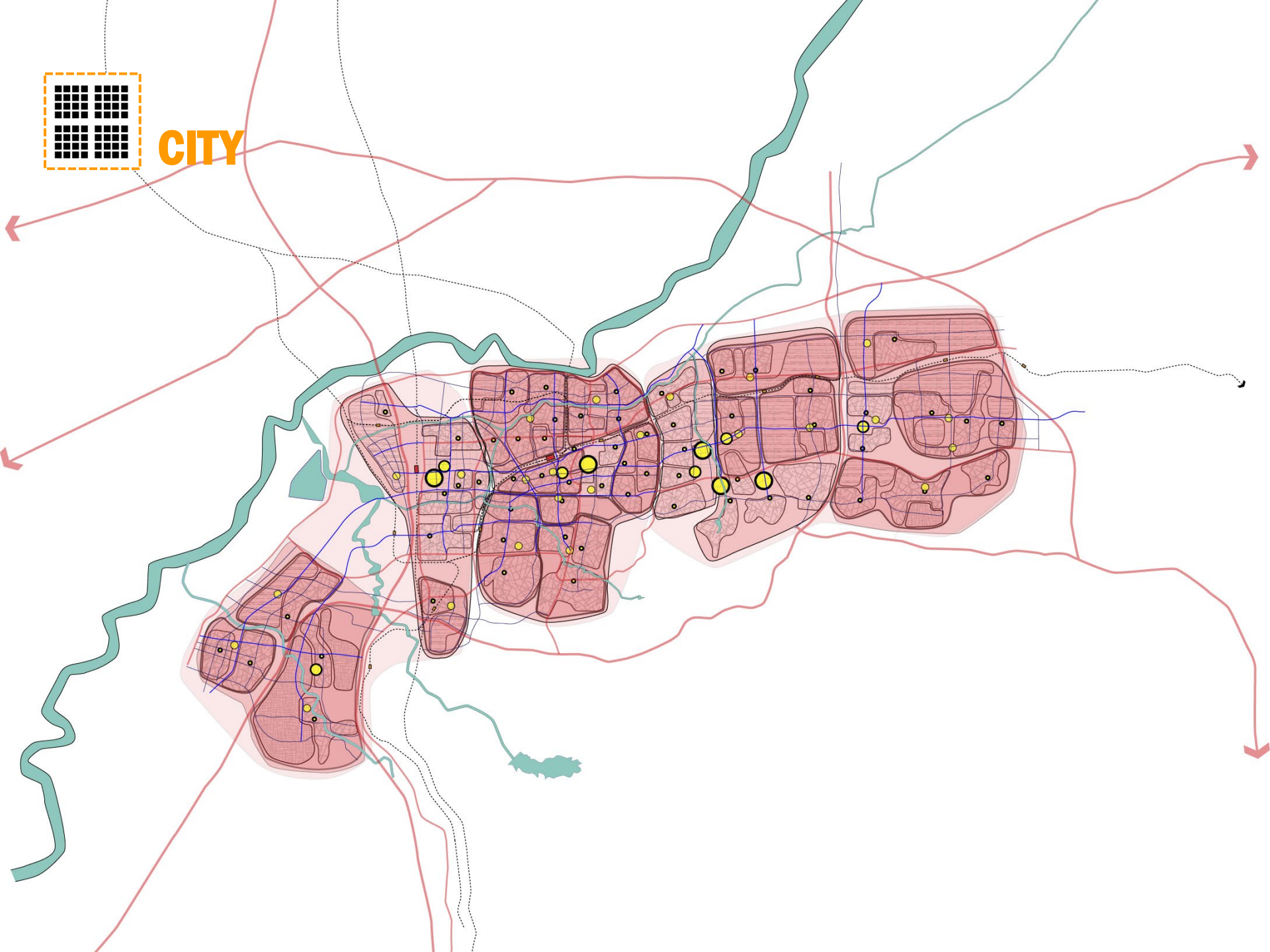
DIQU



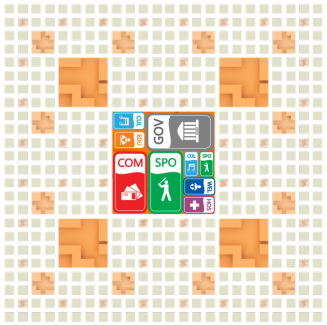


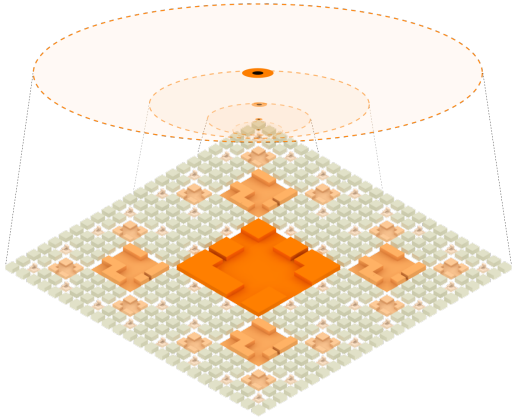
GOV CUL SPO COM EDU

Papulation: 450,000-600,000


CITY

CITY





GOV CUL SPO WEL HOS COM EDU

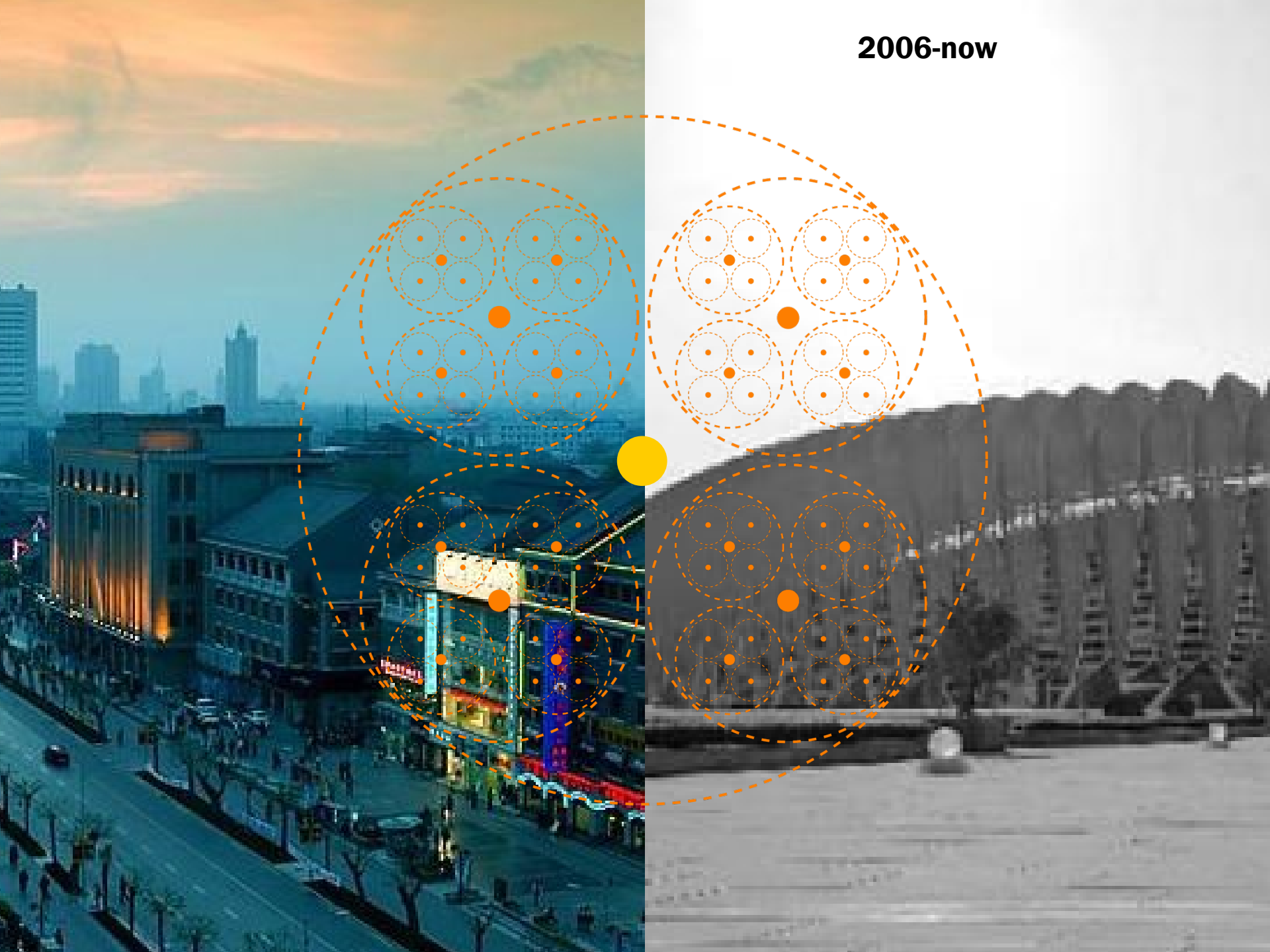
Papulation: 1500,000-1800,000

IDEAL CONCEPT

Conclusion:Government planning

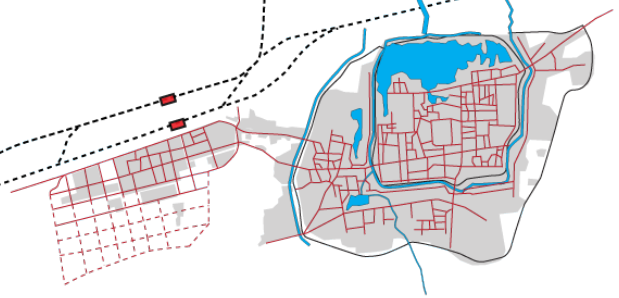
1 **Scales** seperated purely (eg. city scale facilities Only in city center....)

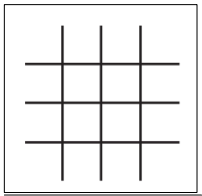
2 **Center** concentrated distribution


2006-now

WHAT
HAPPENED TO OLD CENTER ?

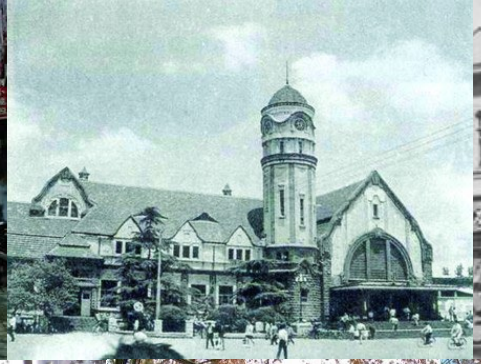
1911



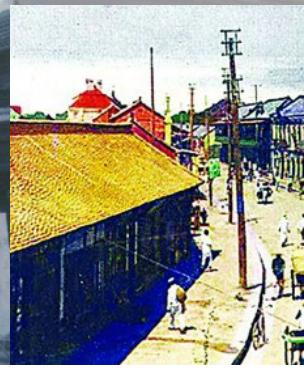


Plan structure

STATION



BANK



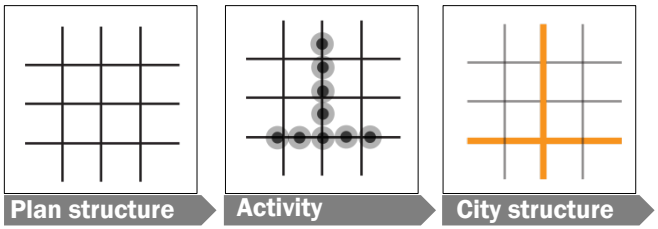
HOSPITAL

POSTOFFICE

COMMERTIAL .....

SUPER GRID 1911

FACILITIES CONCENTRATED = SUPERGRIDS = MOST ACTIVE PLACE



SUPER GRID GROWTH

1911

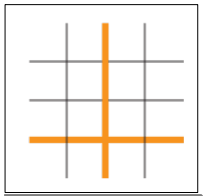
1932

1948

1956

1985

2006



City structure

SUPER GRID GROWTH

1911

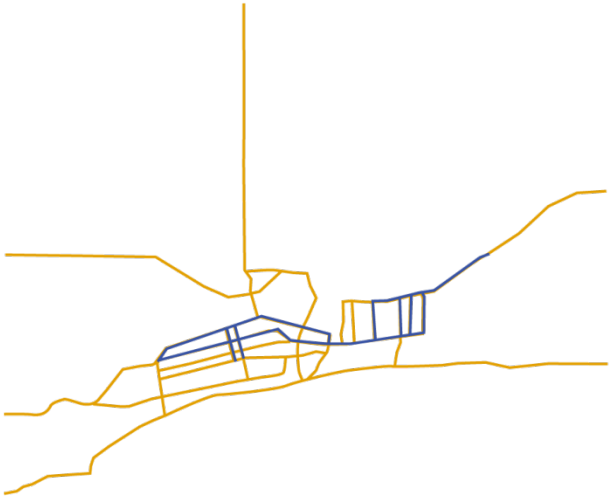
1932

1948

1956

1985

2006



City structure

SUPER GRID GROWTH

1911
1932
1948
1956
1985
2006

City structure

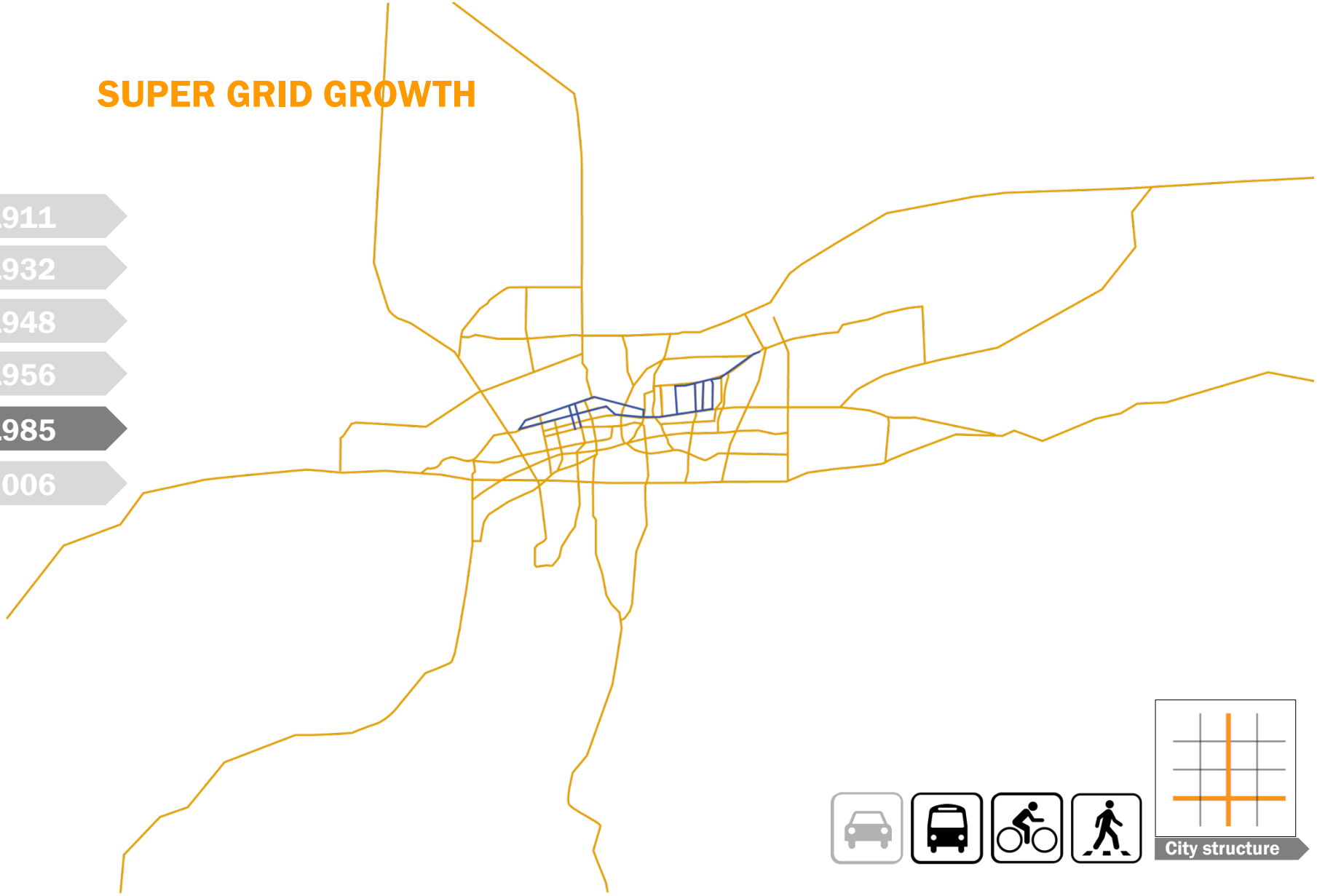
SUPER GRID GROWTH

1911
1932
1948
1956
1985
2006

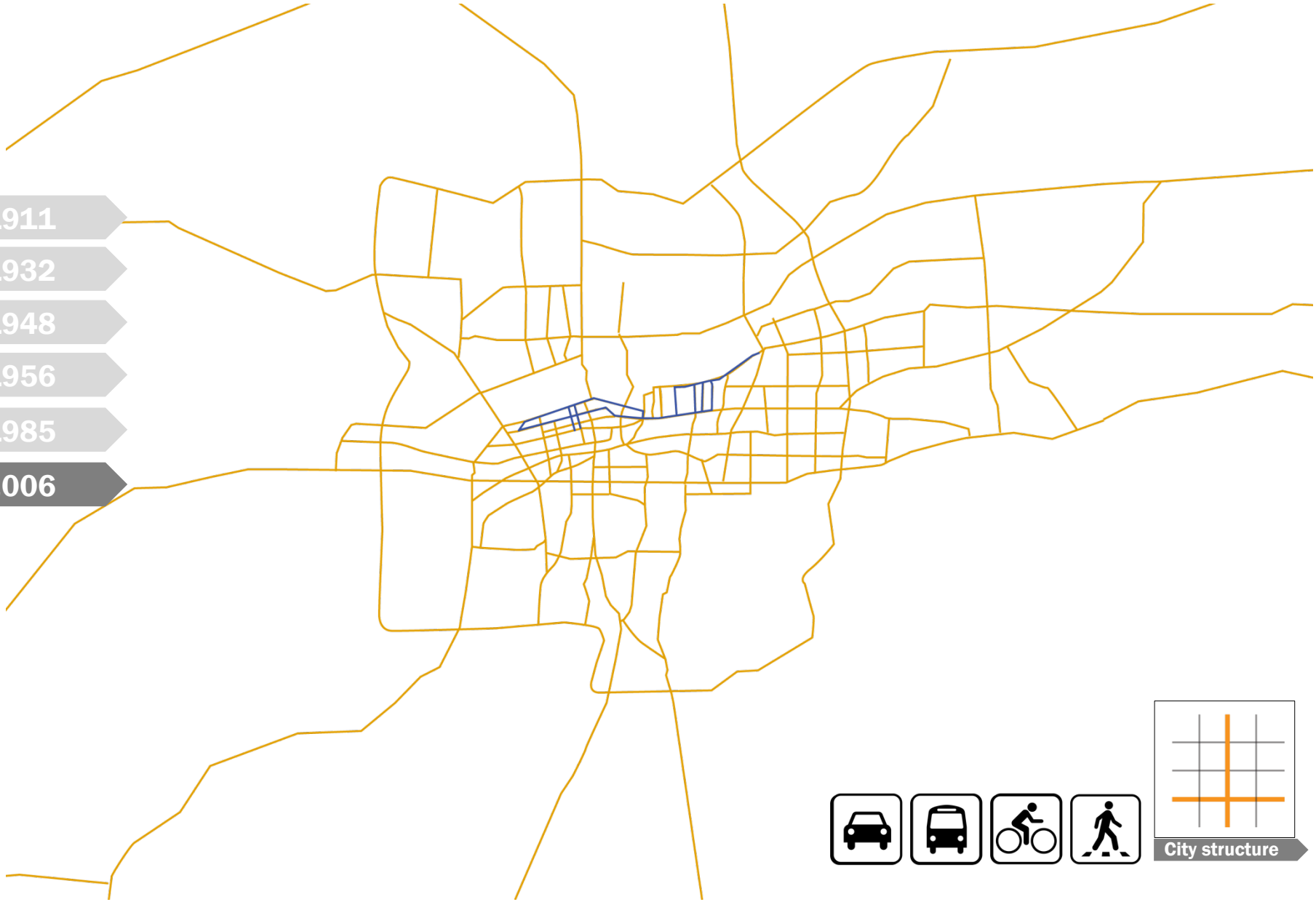
City structure

SUPER GRID GROWTH

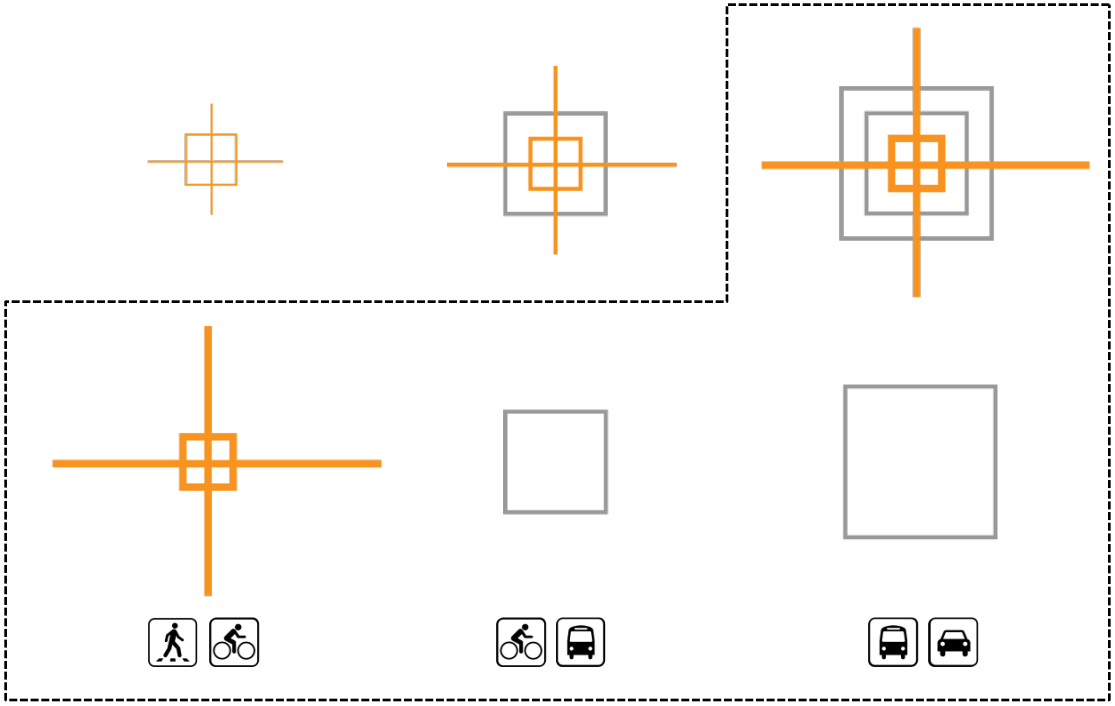
1911
1932
1948
1956
1985
2006



City structure

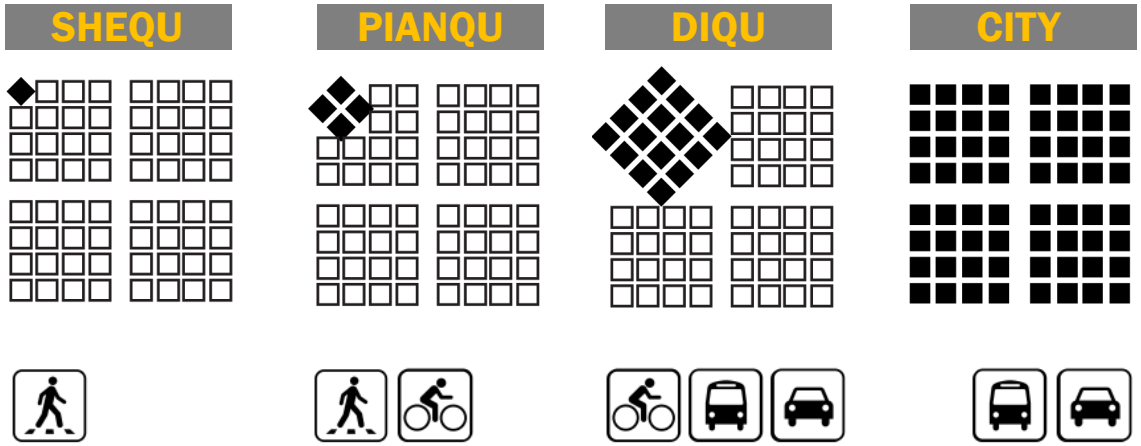

1911
1932
1948
1956
1985
2006
City structure

History conclusion:



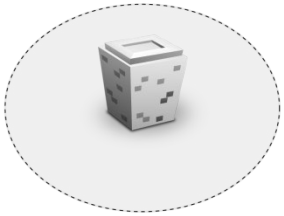
CONTINUOUS Roads which always connect to outside of ciy can be kept actively in any period

SCALE OVERLAYER



How scales overlayered spactially?

3 Principles



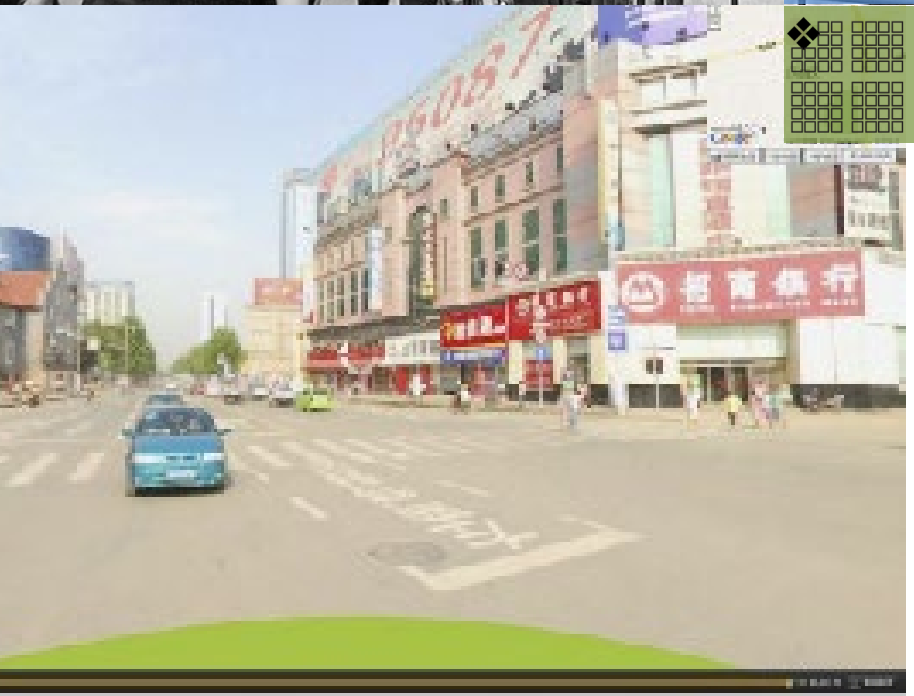
Catchment area

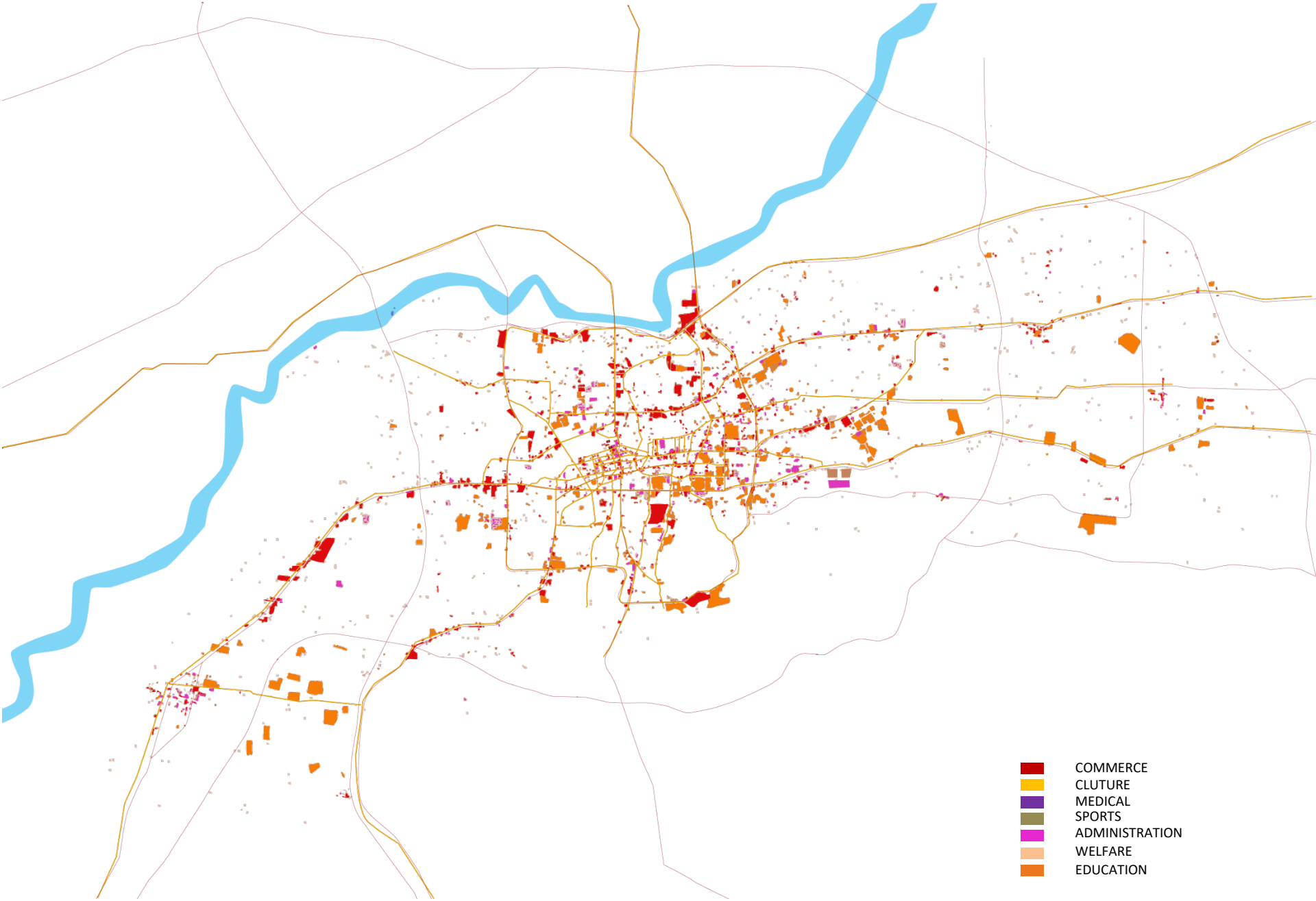
Sevice population

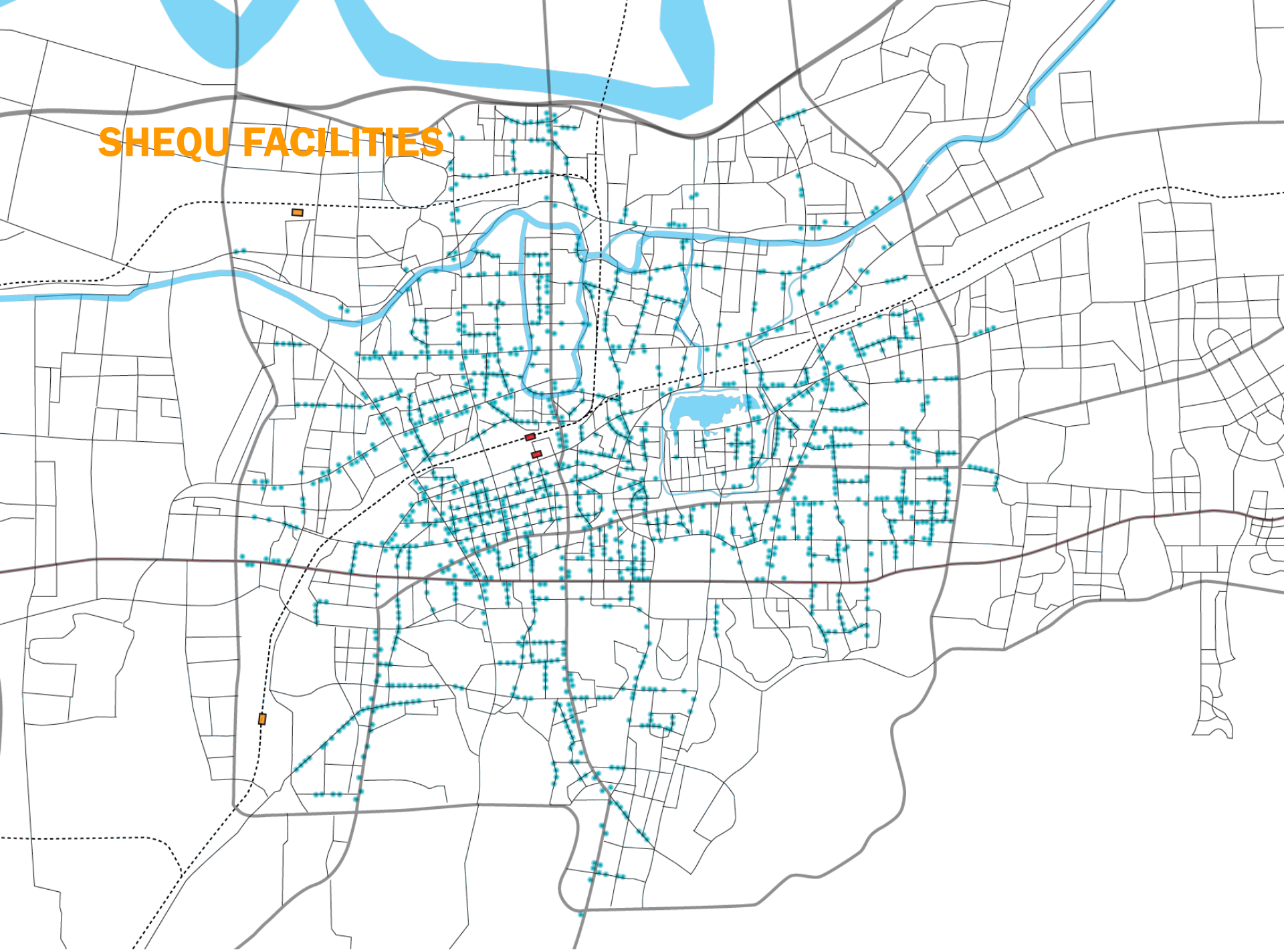
shequ facilities: daily use
pianqu facilities: weekly use
diqu facilities: monthly use
city facilities: yearly use

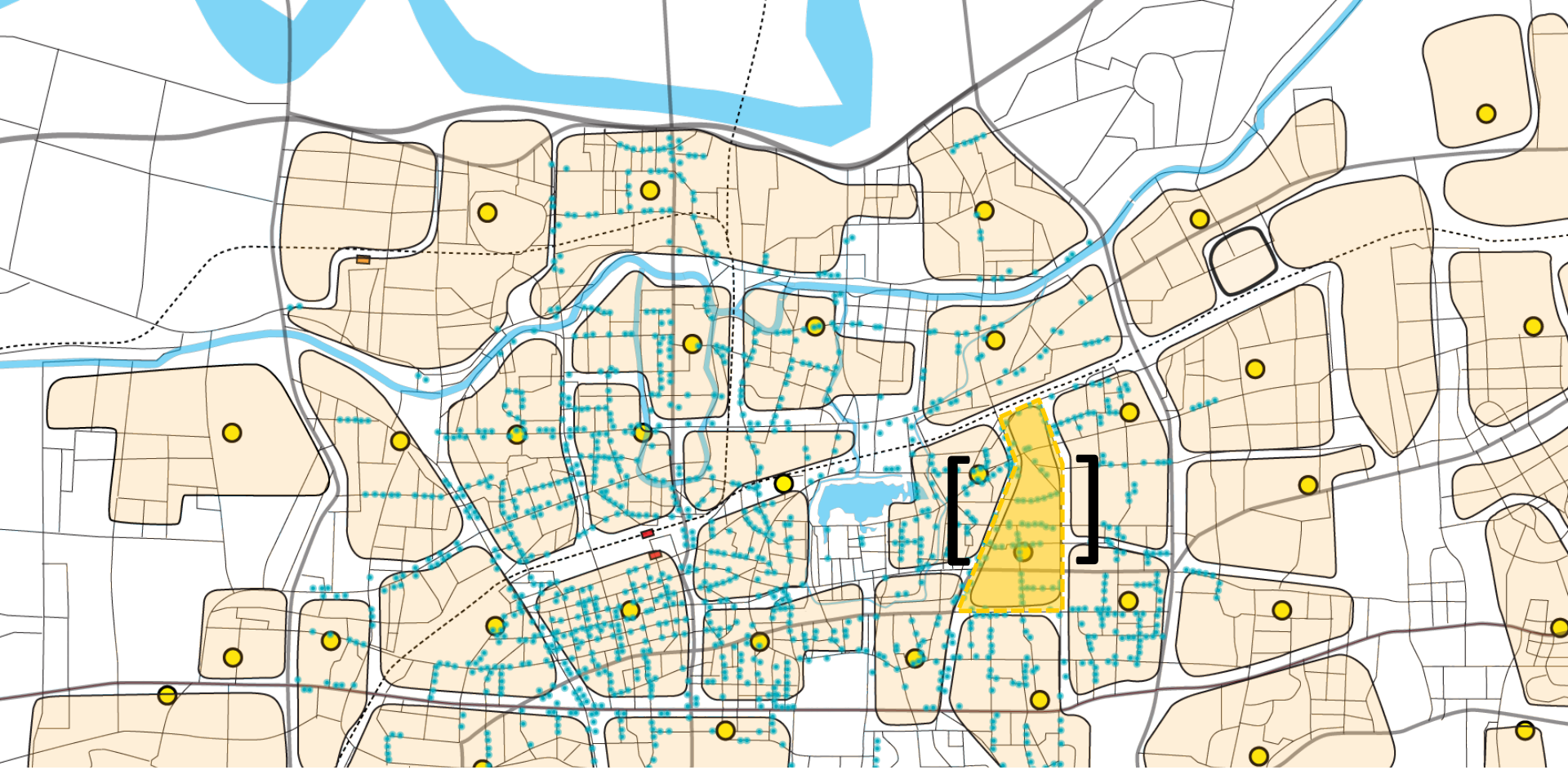
Using frequency

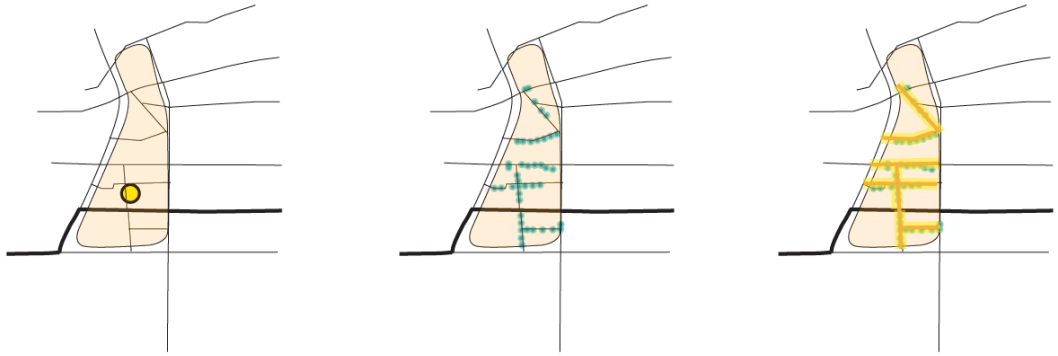
GOVERNMENT




COMMERCE
CLUTURE
MEDICAL
SPORTS
ADMINISTRATION
WELFARE
EDUCATION

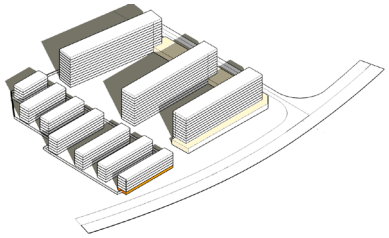

SHEQU FACILITIES



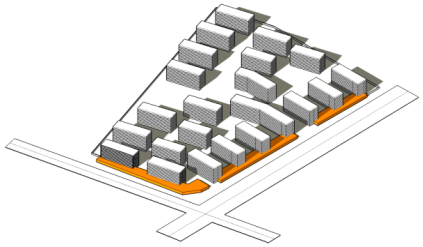


2 TYPOLOGIES

1 individual neighborhood



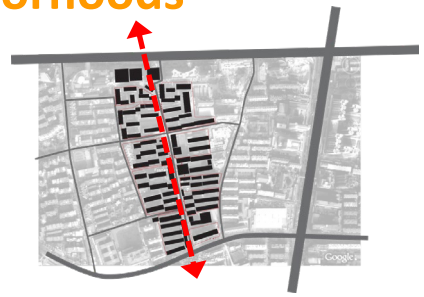
OLD SHEQU



NEW SHEQU

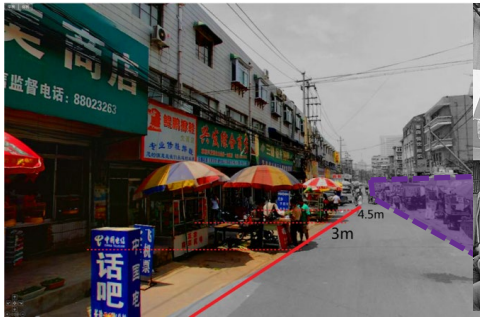
2 cluster of neighborhoods

- Public facilities
- Formal commercial
- informal commercial

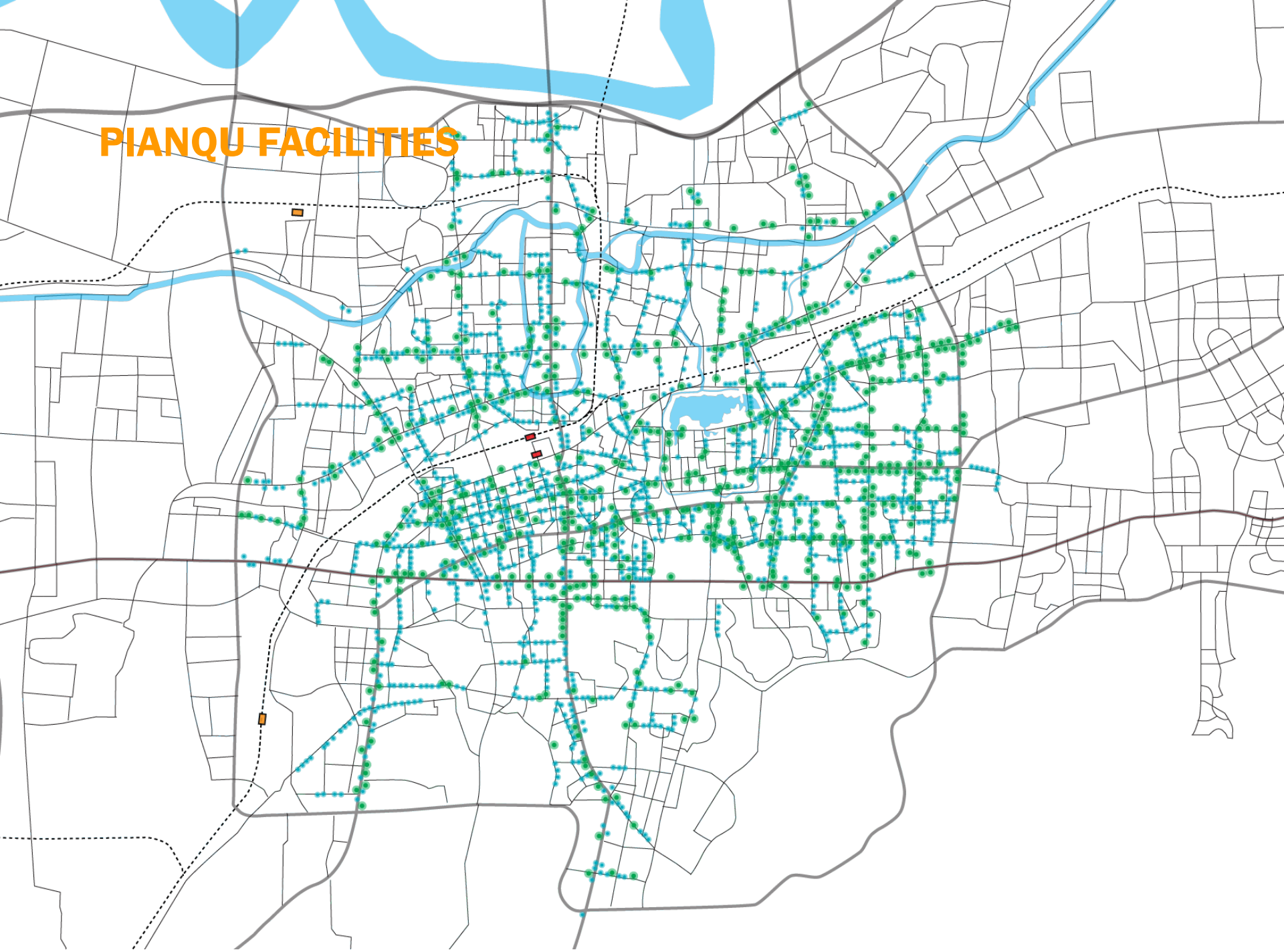


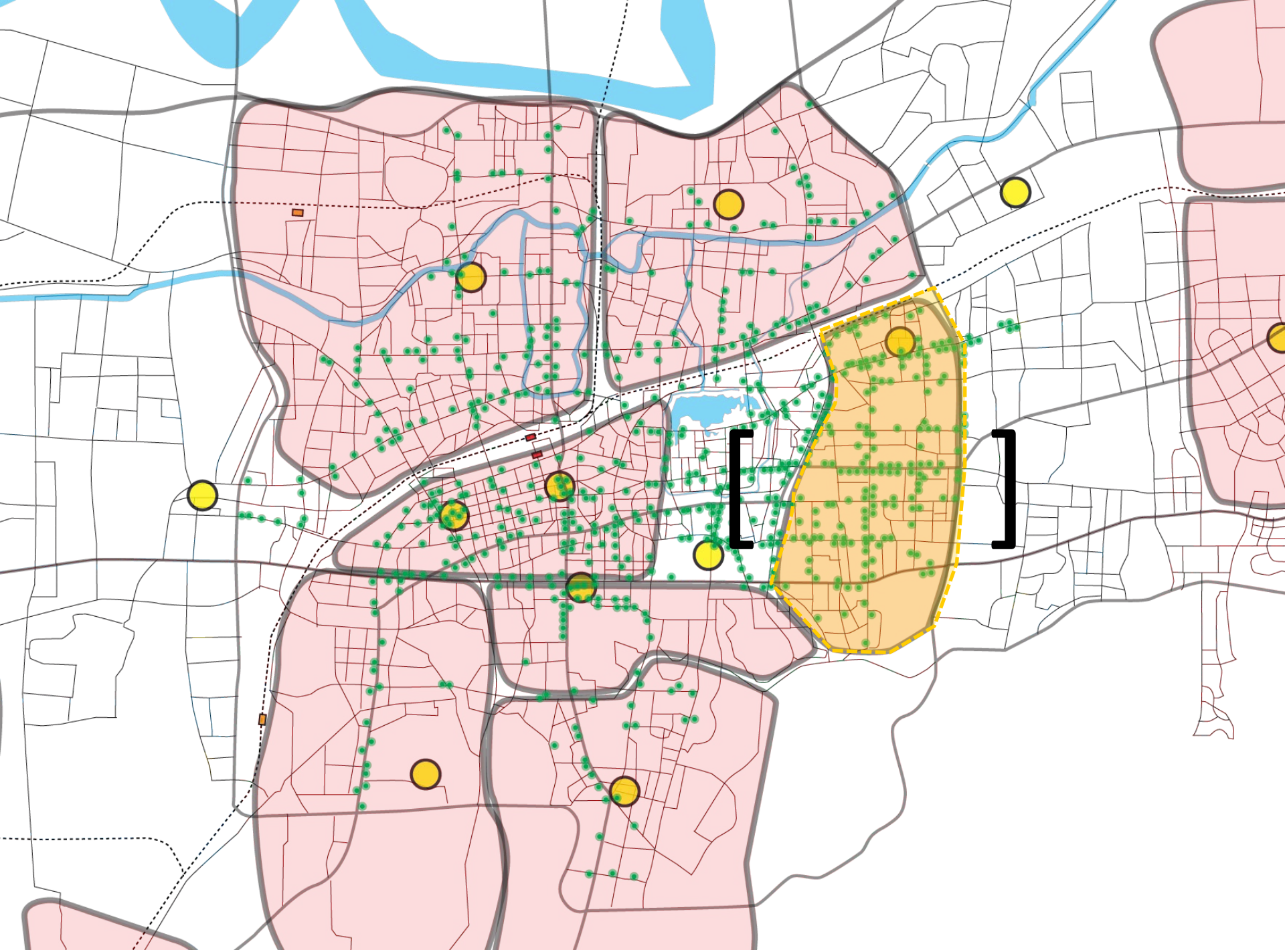
main entrances on road

SPACE WALL

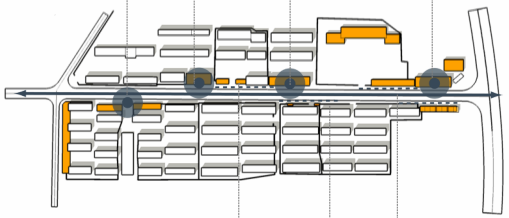


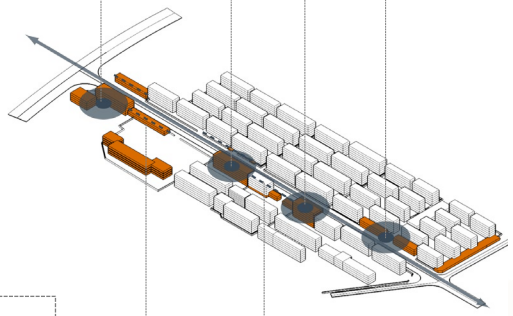
RESIDENTIAL DENSITY

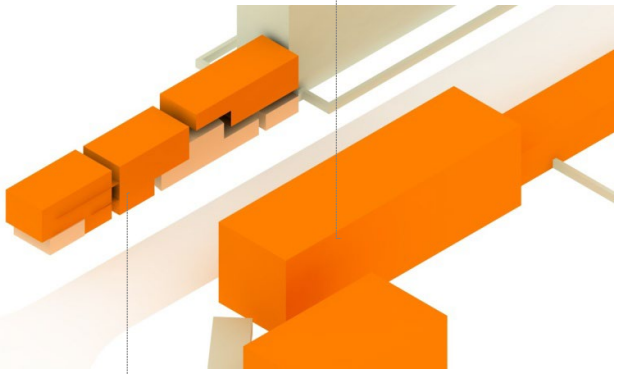

PIANQU FACILITIES



Nodes
Pianqu facilities

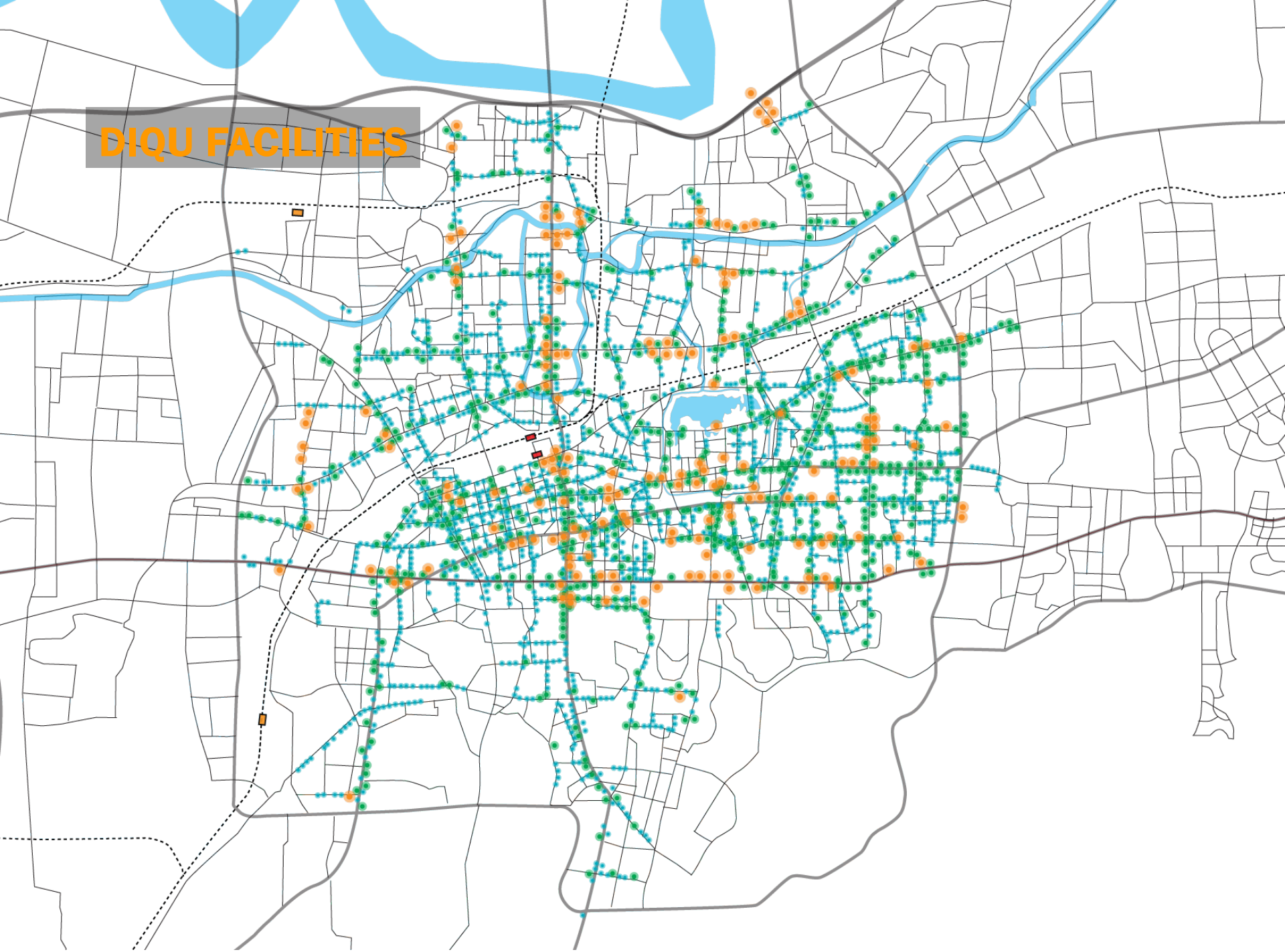


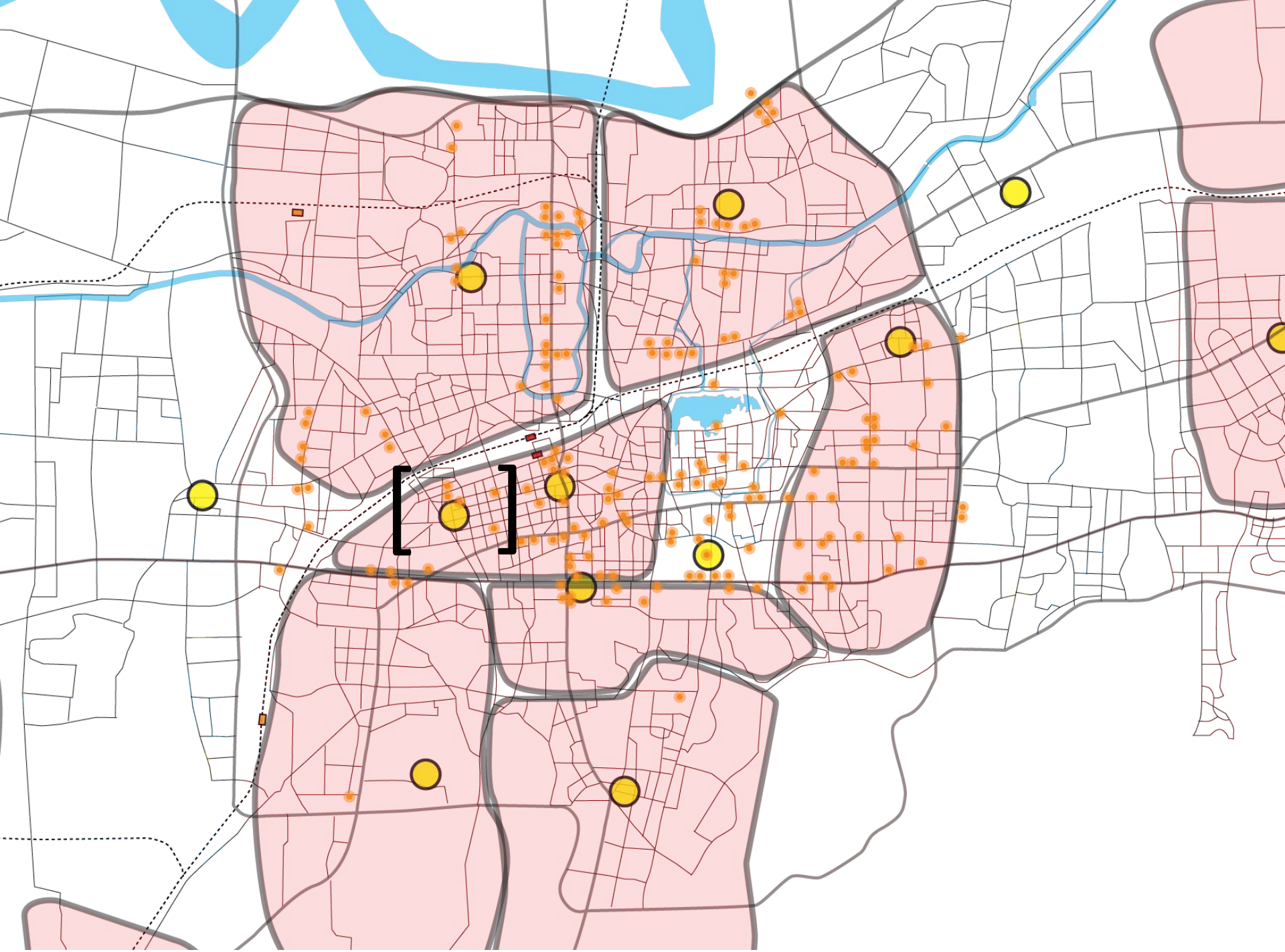




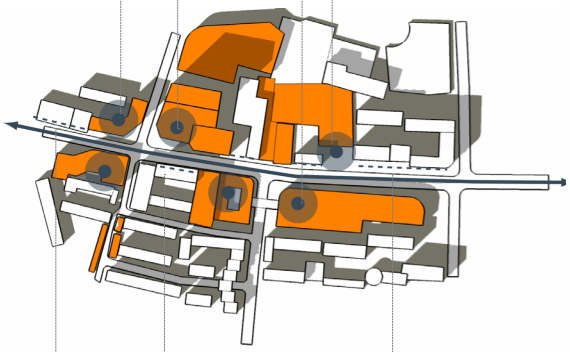
Dash line
P-S conbination

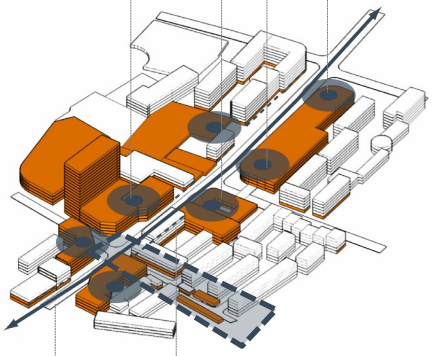

DASH LINE
P-S CONBINATION
NODE
Pianqu facilities

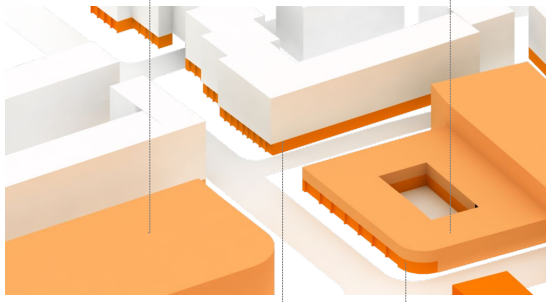

DIQU FACILITIES



Nodes
Diqu facilities



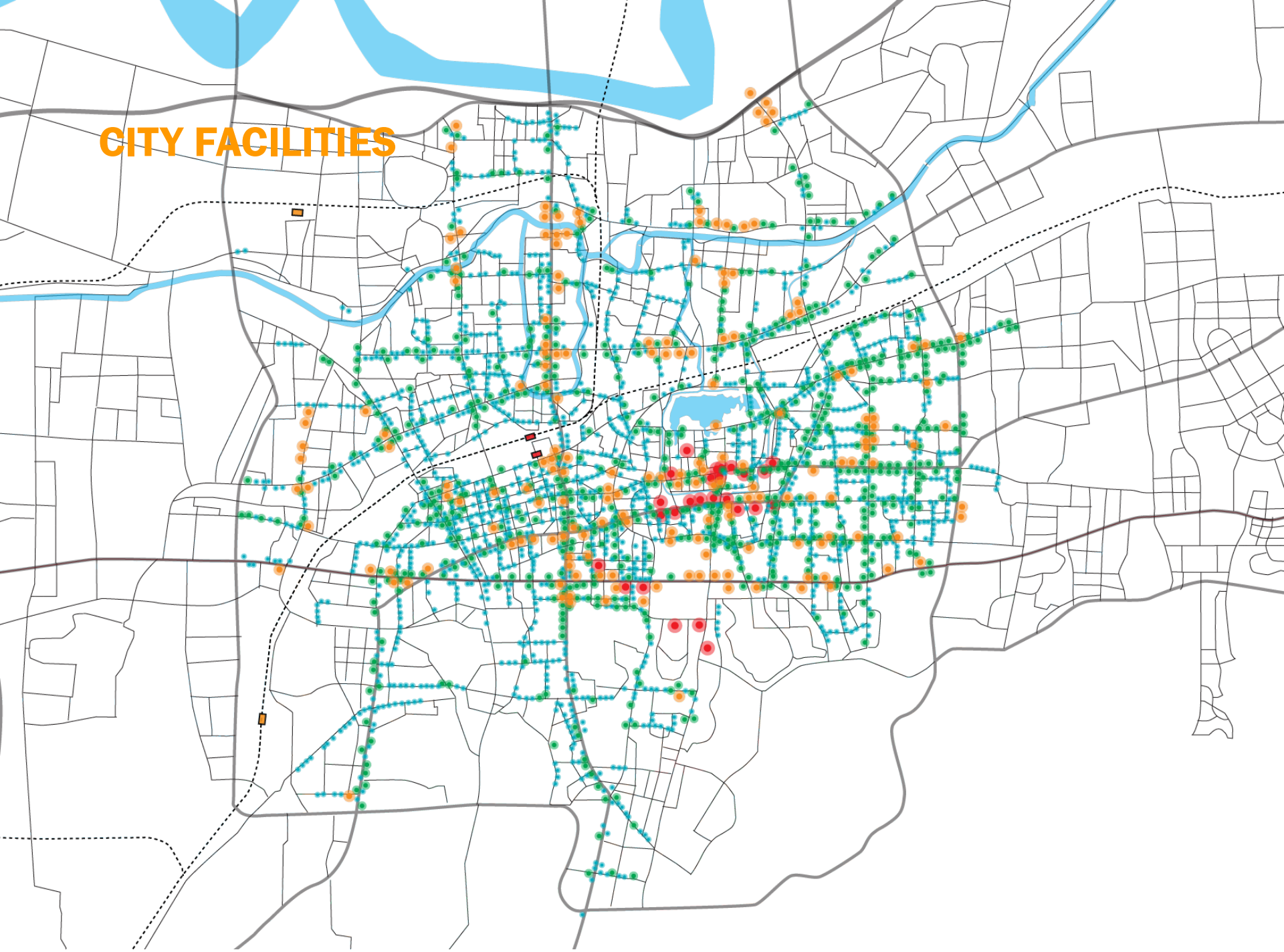


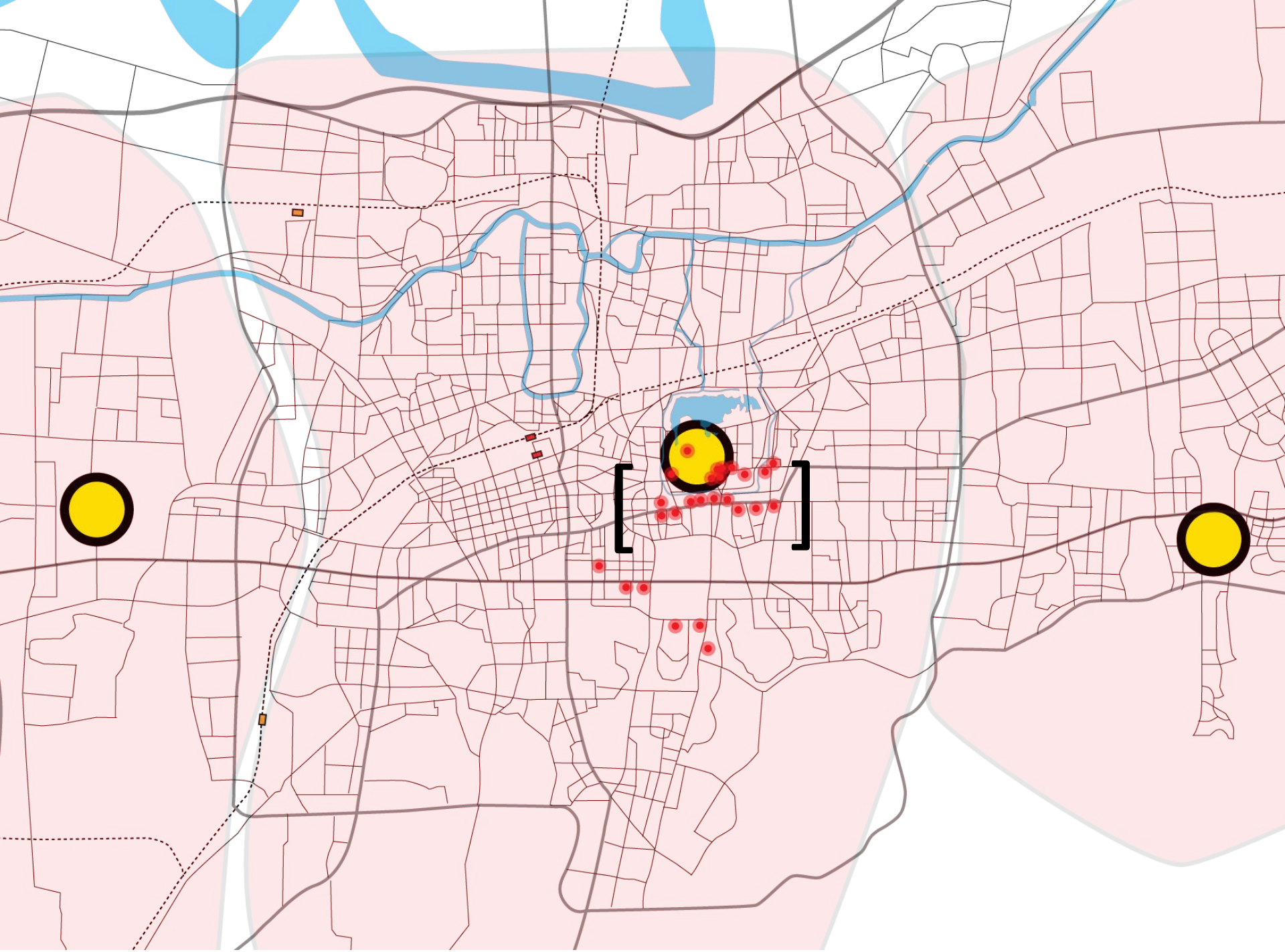


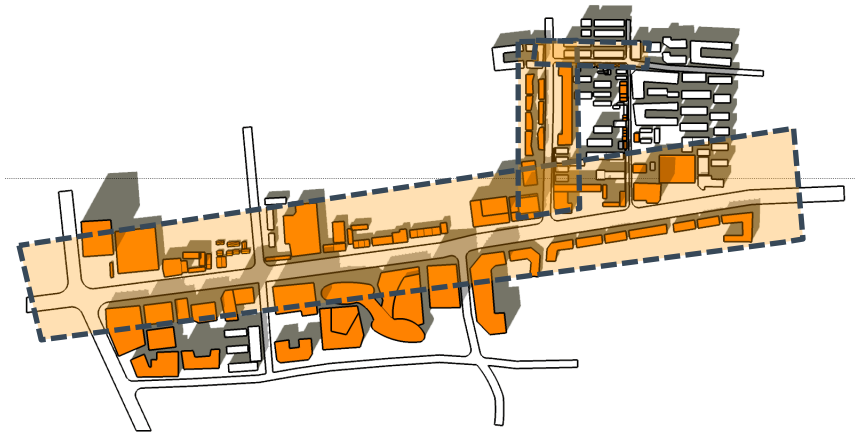
Dash line
D-P conbination


SPATIALLY RELATED
FUNCTIONALLY RELATED

CITY FACILITIES








[PIANQU CENTER]
DIQU CENTER]
CITY CENTER

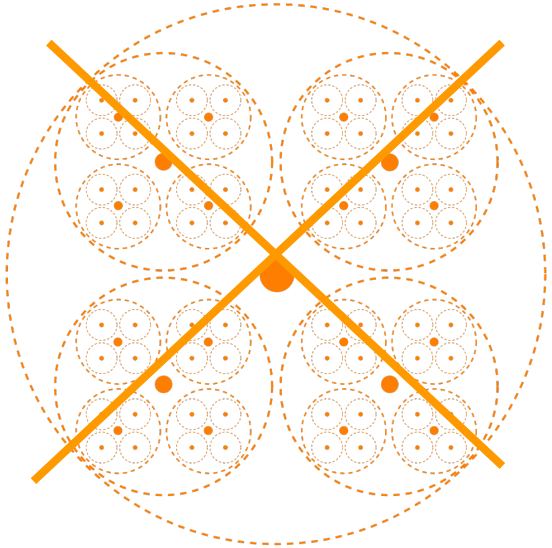

KFC

IDEAL CONCEPT OF PUBLIC CENTER SYSTEM

Government planning

~~1 Scales seperated purely~~

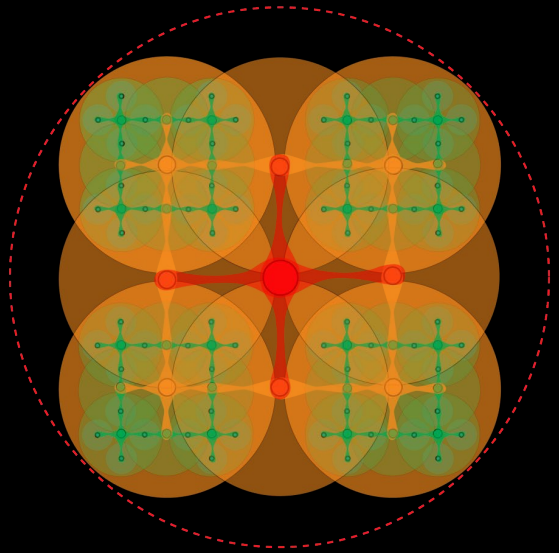
~~2 Center concentrated distribution~~



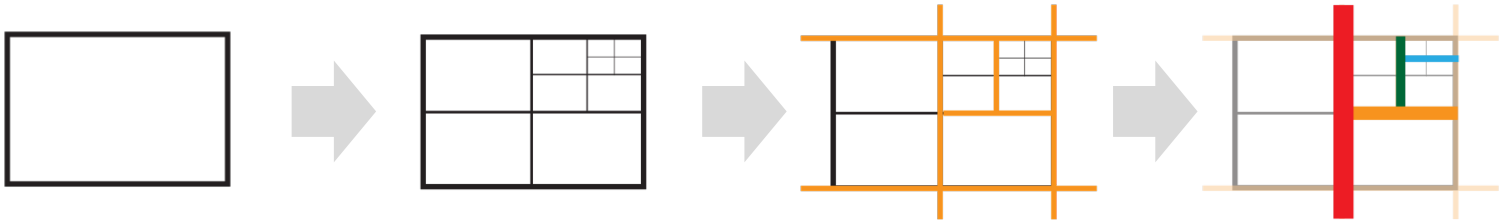
Reality

1 Center is improved by **scales integration** according to **certain spatial principles.**

2 Center shaped as **linear distribution** reinforced by **supergrids**



Public center system constructing



Current situation

Redefine scales

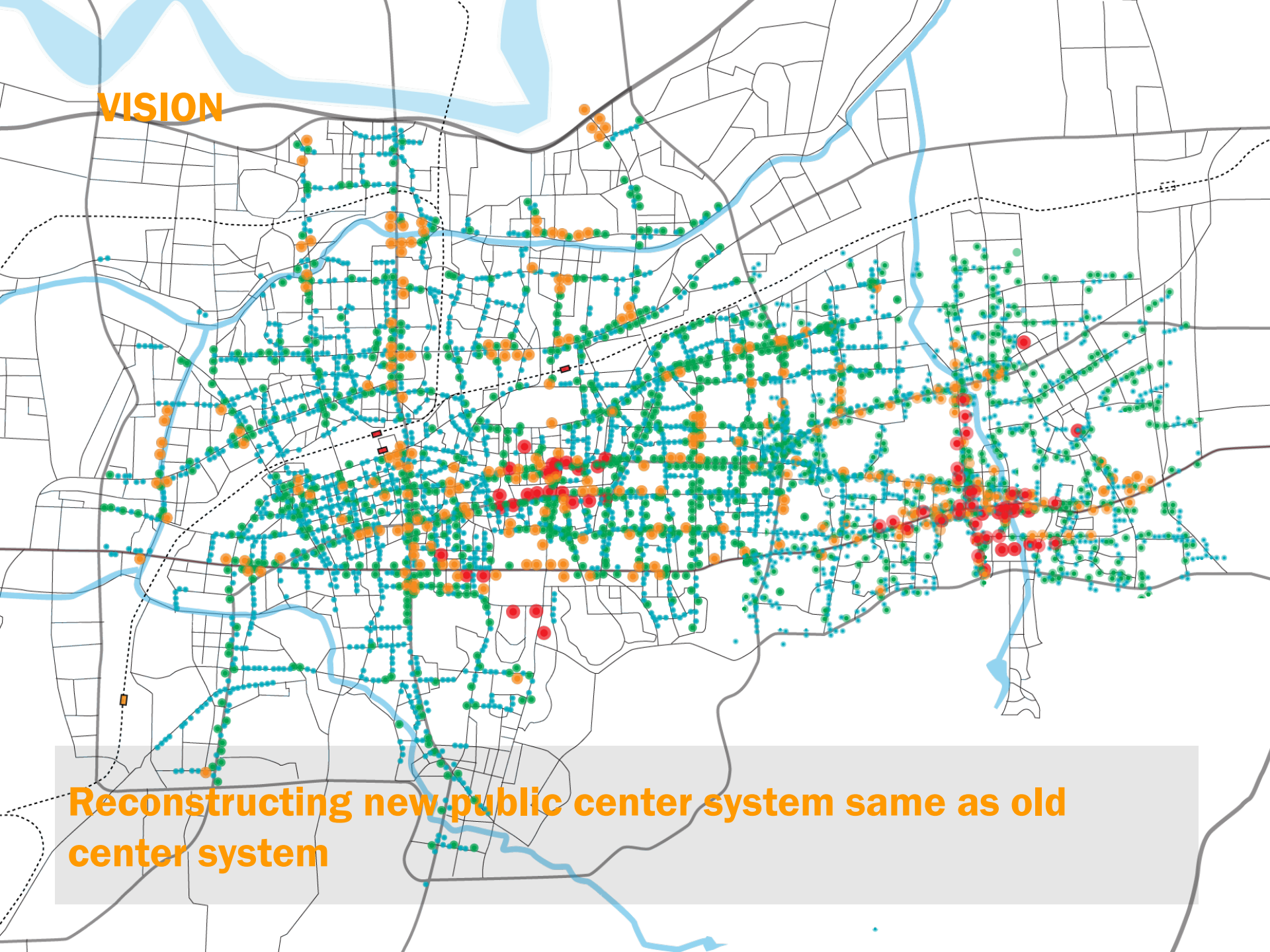
Reconstruct supergrids

Scales system integration

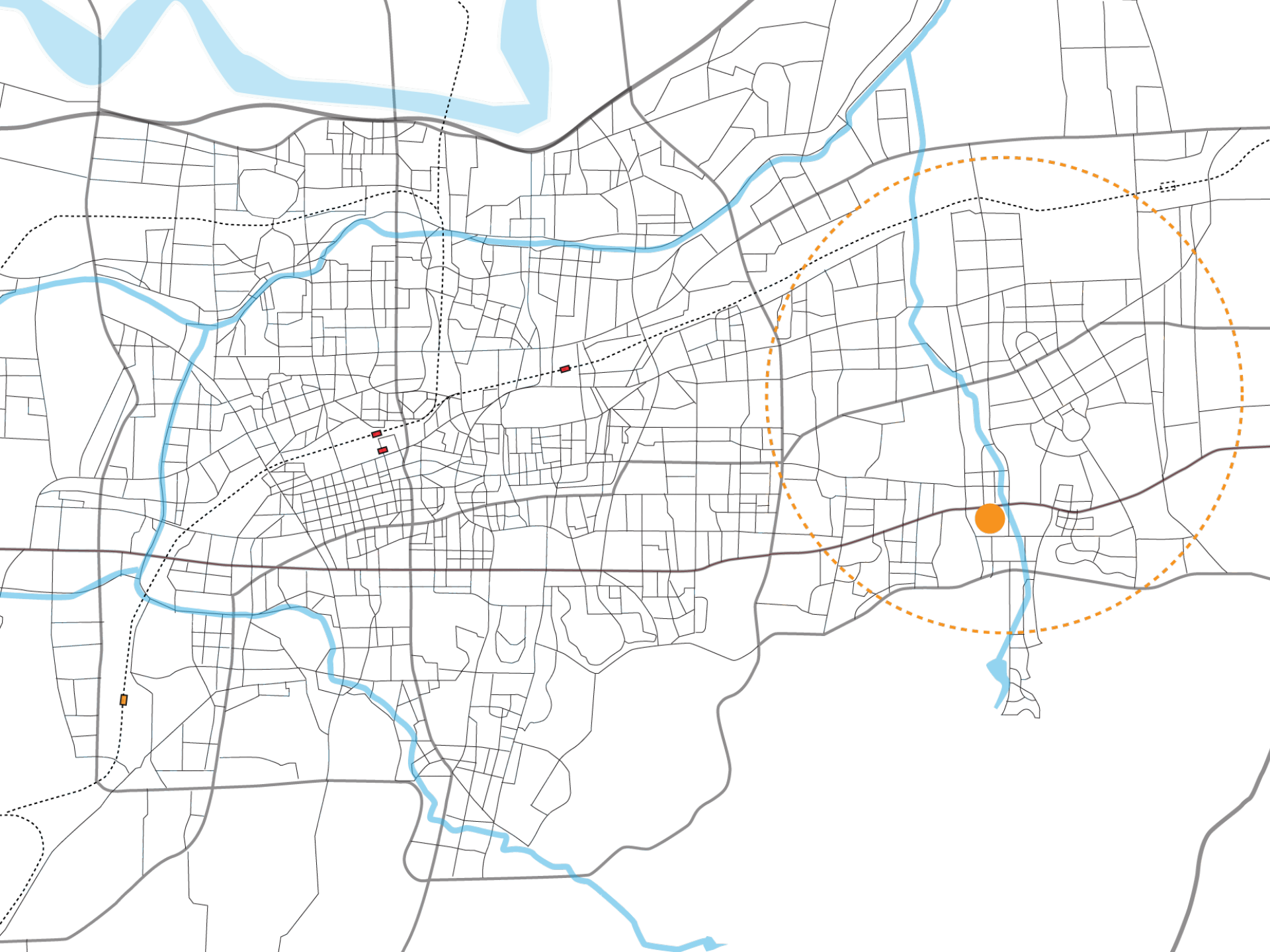
Infrastructure hierarchy

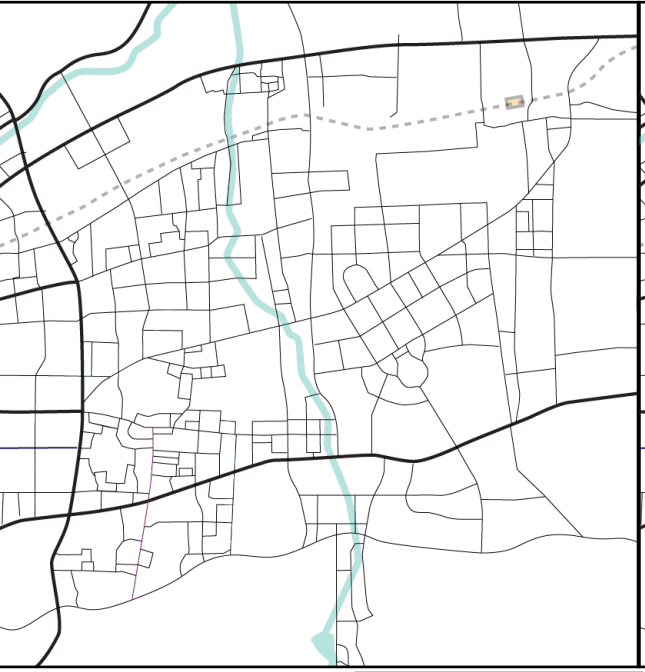
Spatial principles

VISION

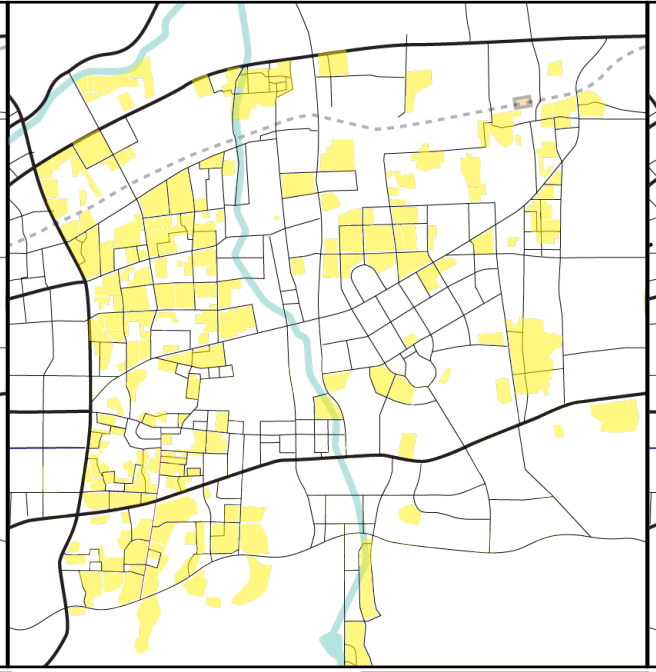


Reconstructing new public center system same as old center system

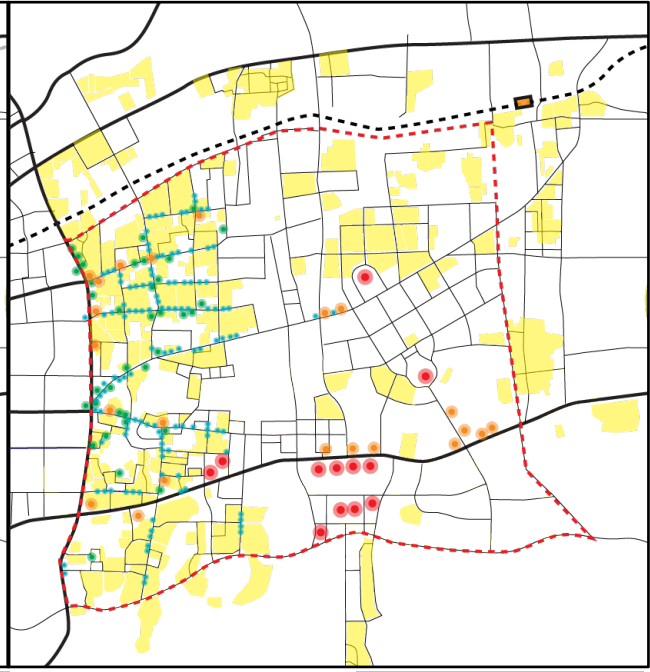




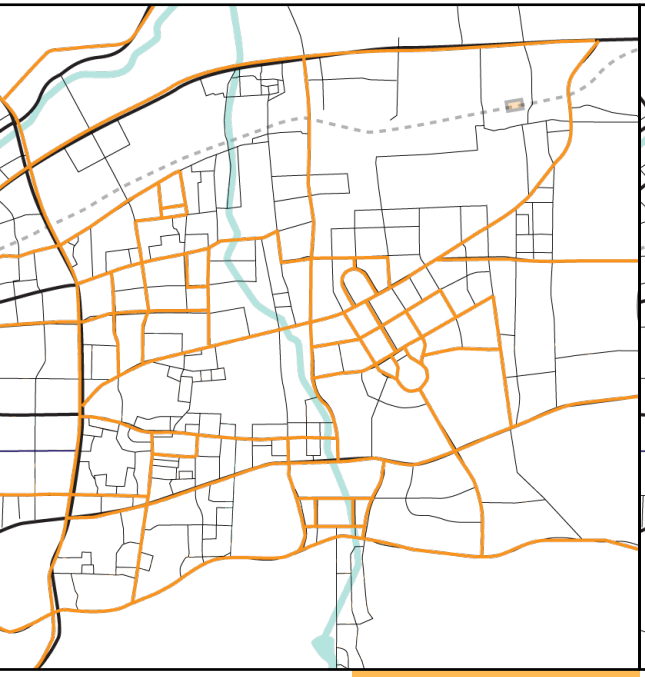
INFRASTRUCTURE



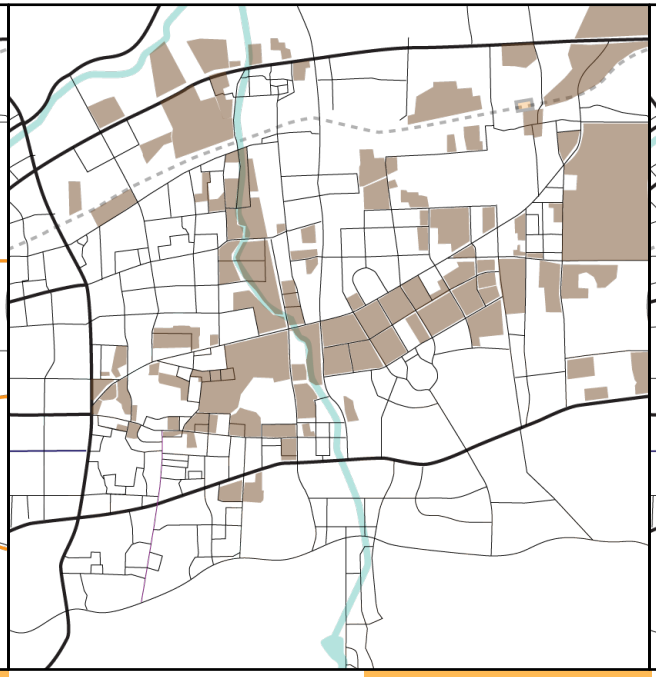
RESIDENCE



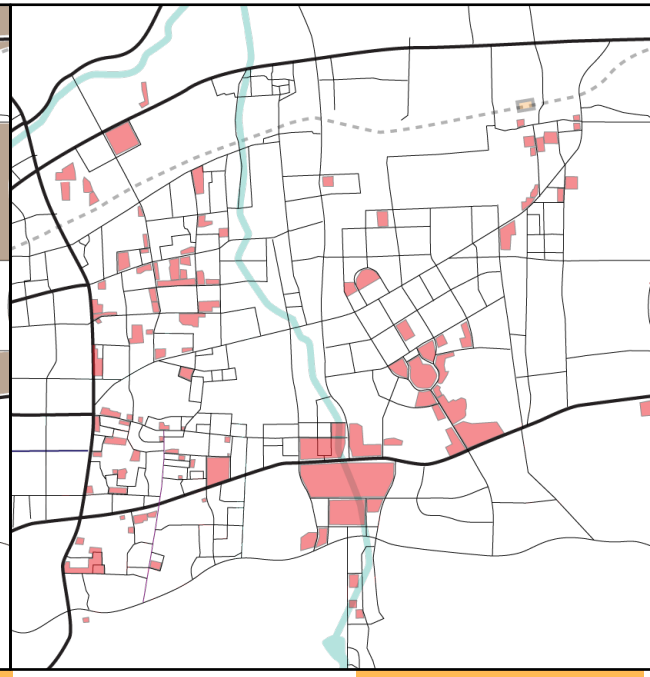
FACILITIES SCALES



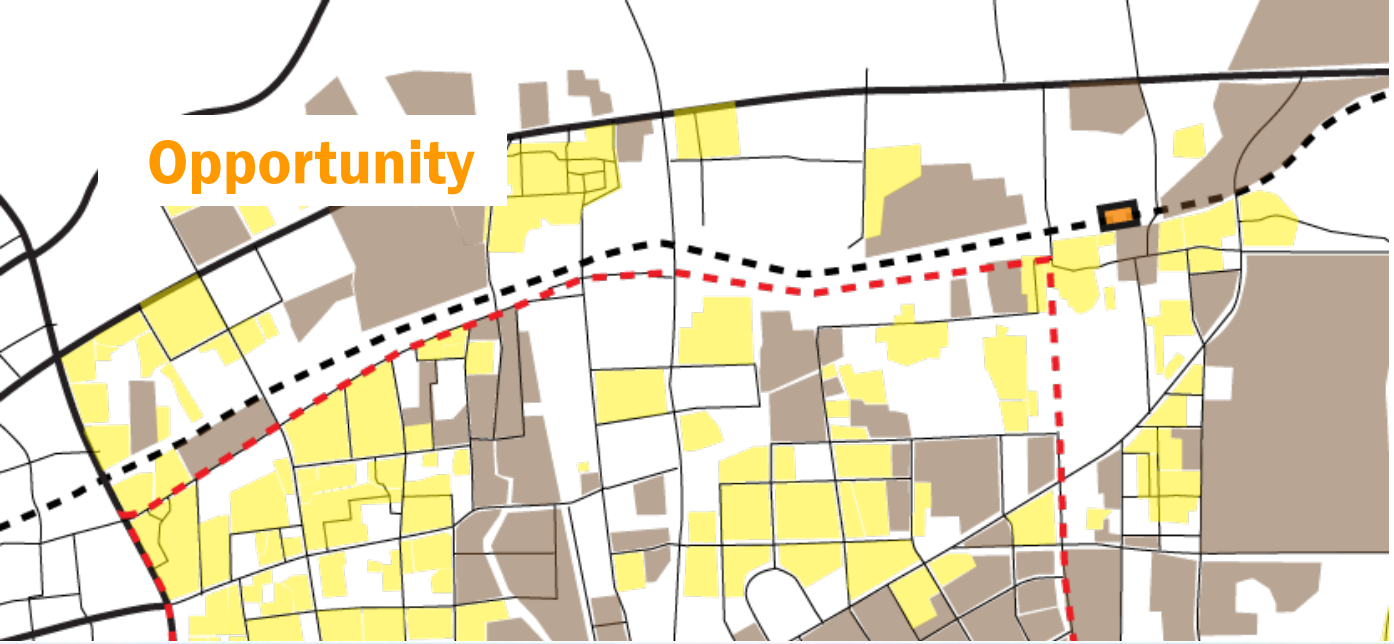
SUPERGRIDS



INDUSTRY

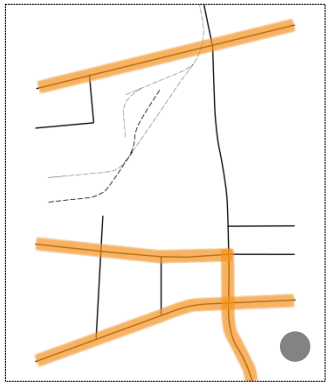


PUBLIC FACILITIES

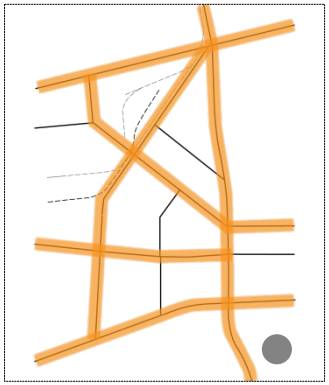

Opportunity


Iron & steel factory

Reconstruct supergrids

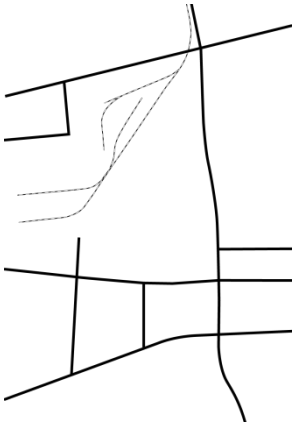


Current supergrids

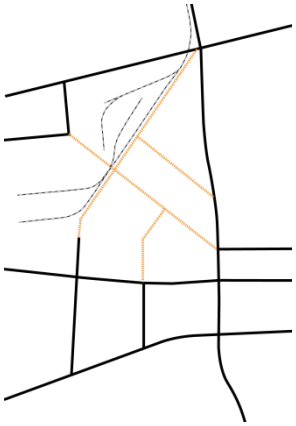


New supergrids

Redefine scales

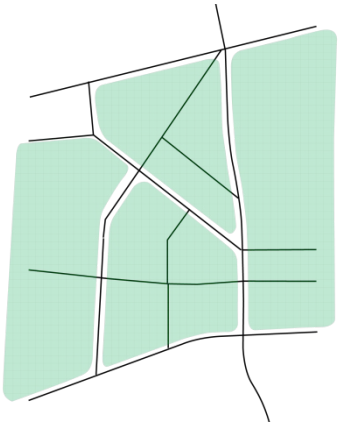


Current infrastructure



New infrastructure

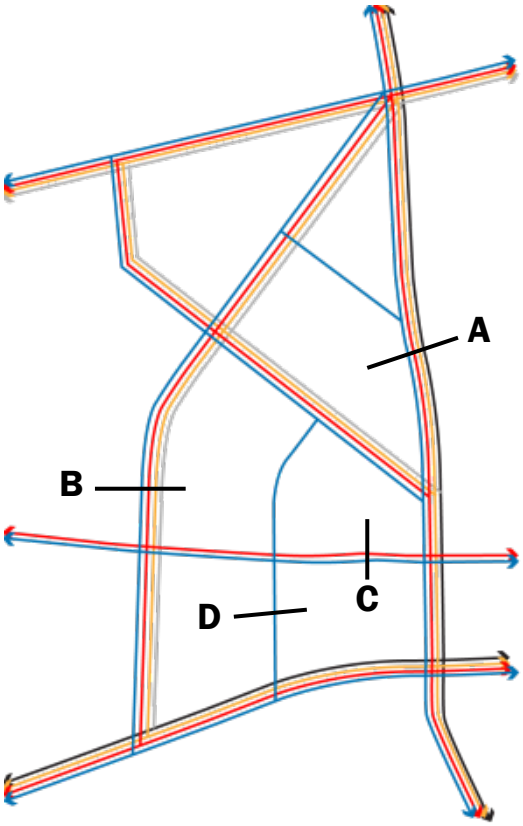
Shequ scale

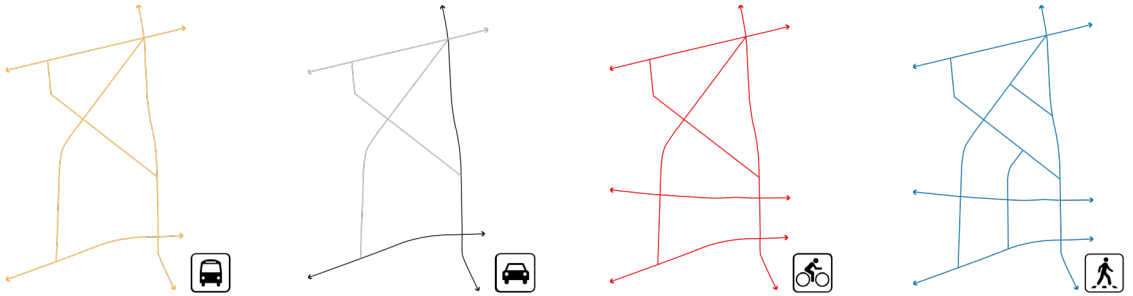


Pianqu scale

Scales integration

Infrastructure hierarchy





C. street

D. Walkway/cycleway

B. lane

A. boulevard

Scales integration

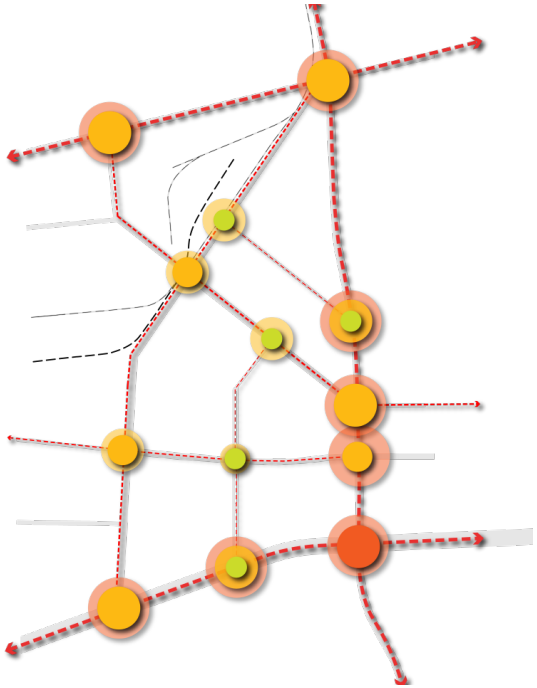
Infrastructure hierarchy

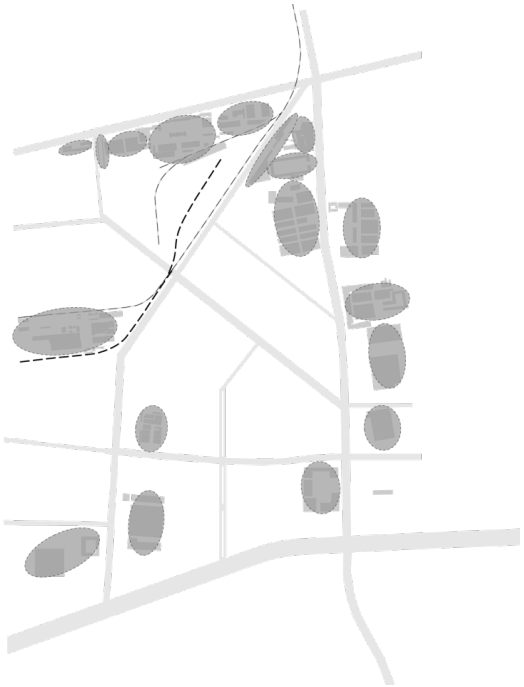
Spatial principles Nodes pure function/Dash lines combination = CORRIDOR

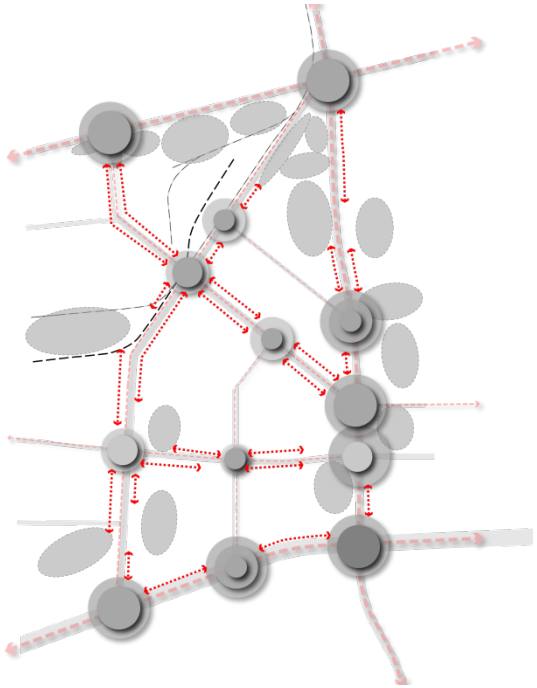
crossing nodes

reserving nodes

Dash lines





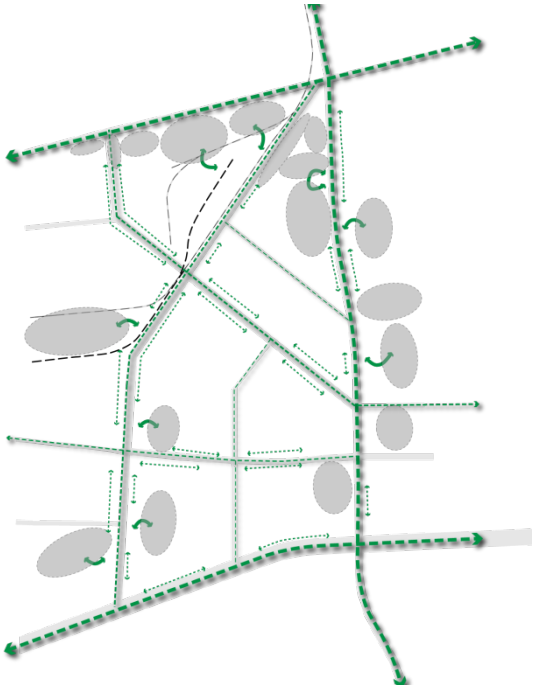


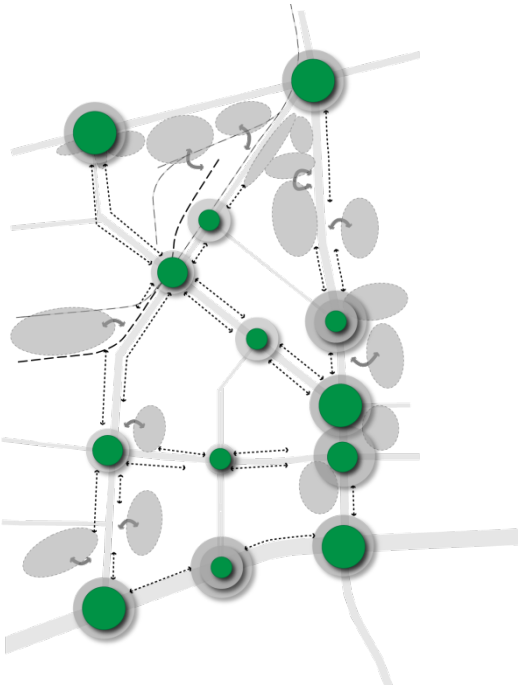
Scales integration

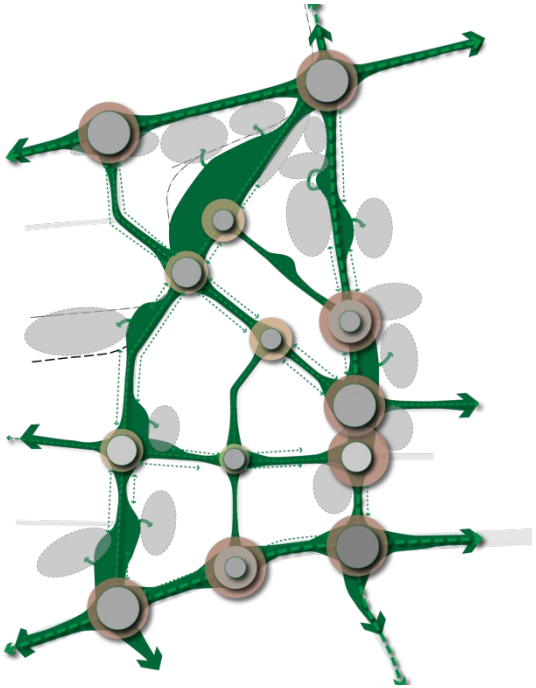
Infrastructure hierarchy

Spatial principles

Public space structure corridor intensification







reserving nodes
connection/supergrids

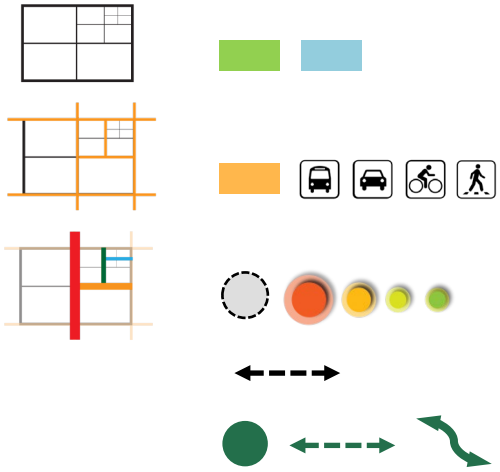
+

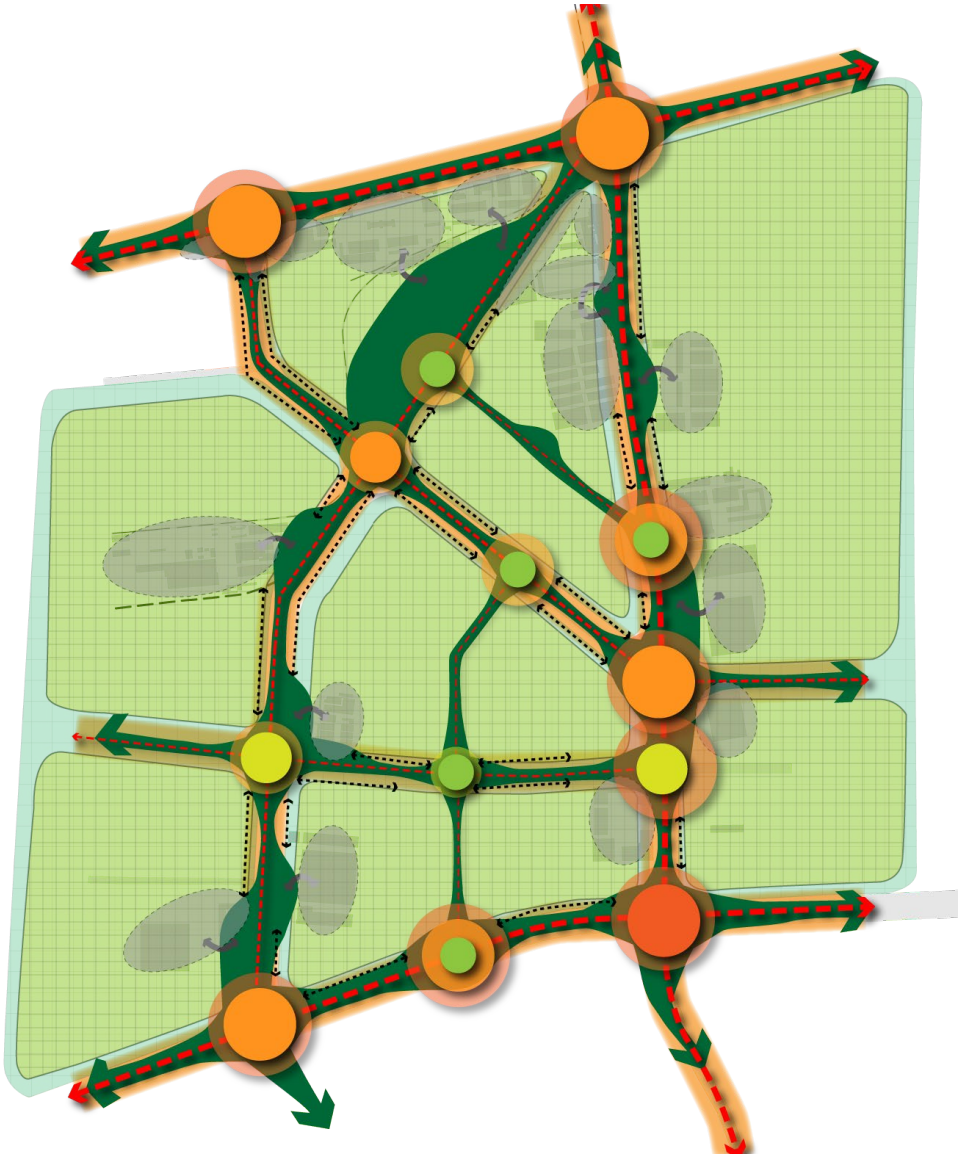
crossing nodes

=

Public space structure

Structure plan

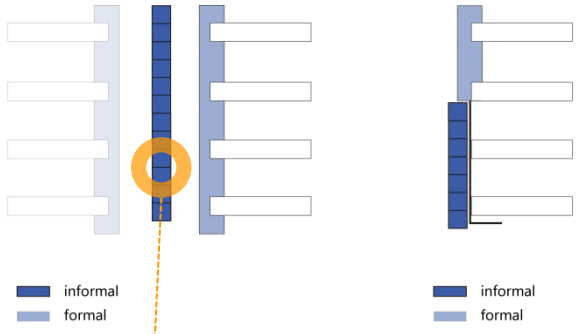




Master plan

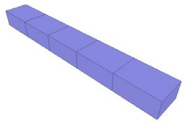
Shequ

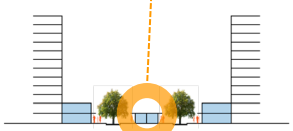
Walkway/bicycleway
12-28m

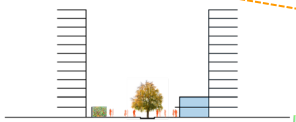


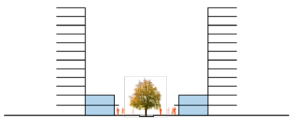
FACADE

MODEL

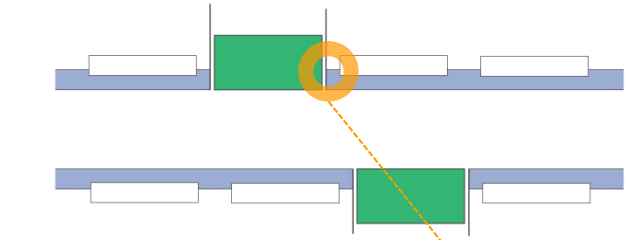






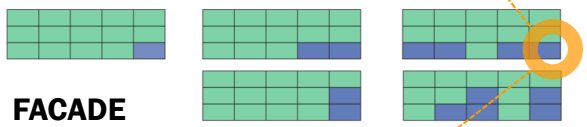


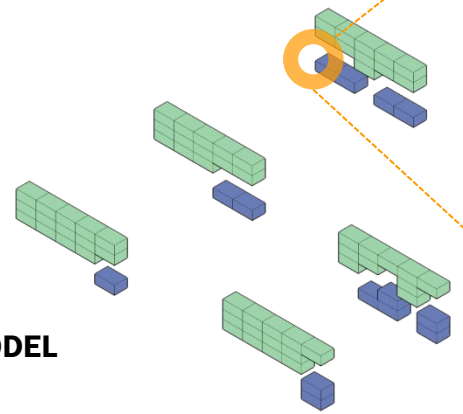

滋補品
HEALTH PRODUCTS
樓上
歡迎光臨
WELCOME
BANK



formal Pianqu

FACADE





MODEL

STREET SECTION

Pianqu

street

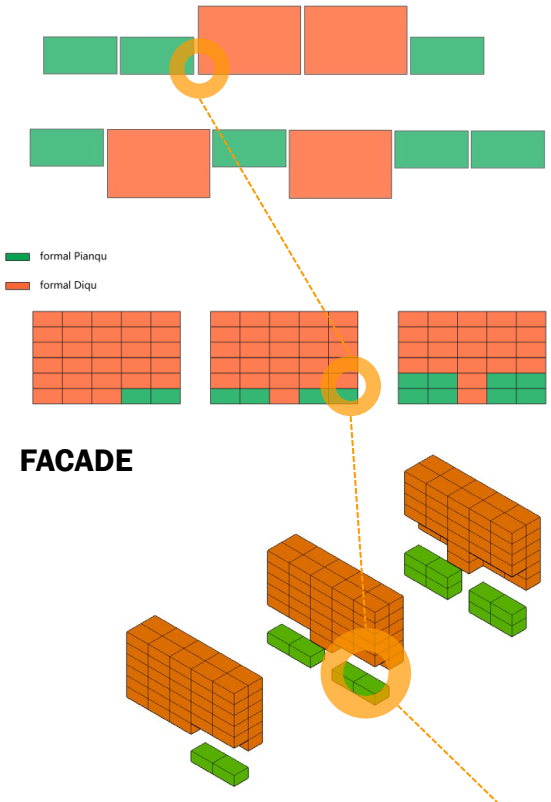
25m

integrationsion

Diqu

lane

30m

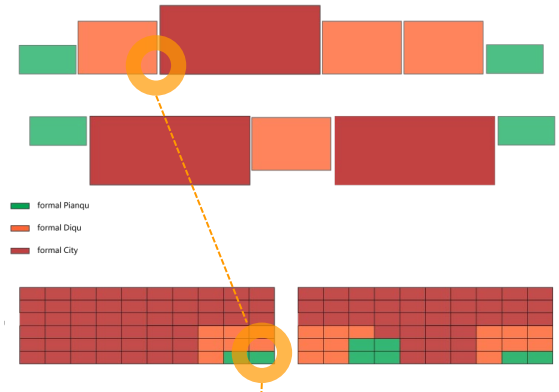


FACADE

MODEL

LANE SECTION

C



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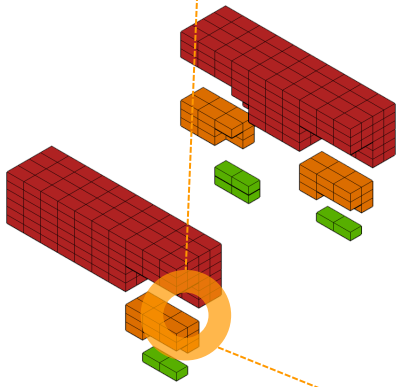
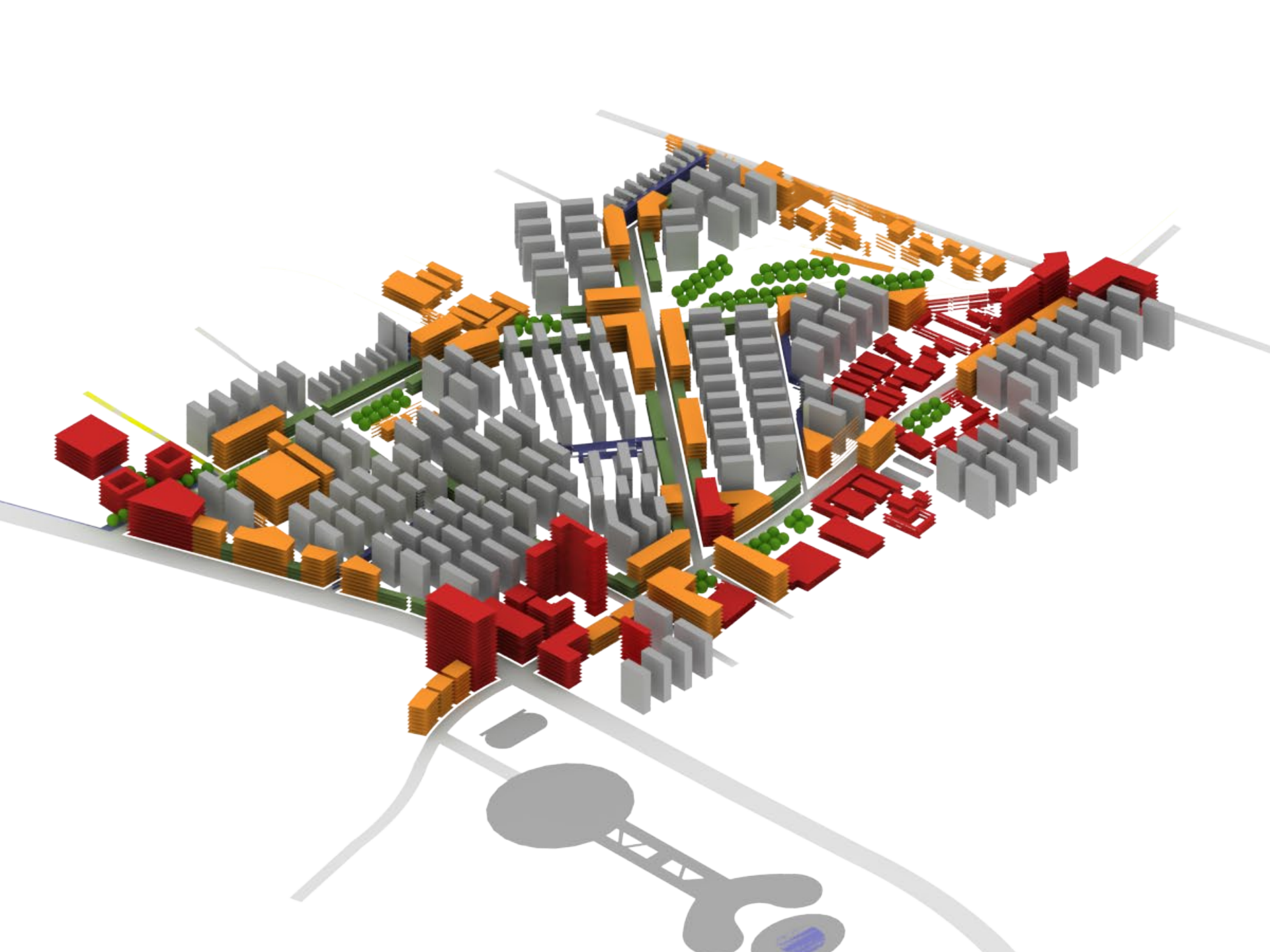


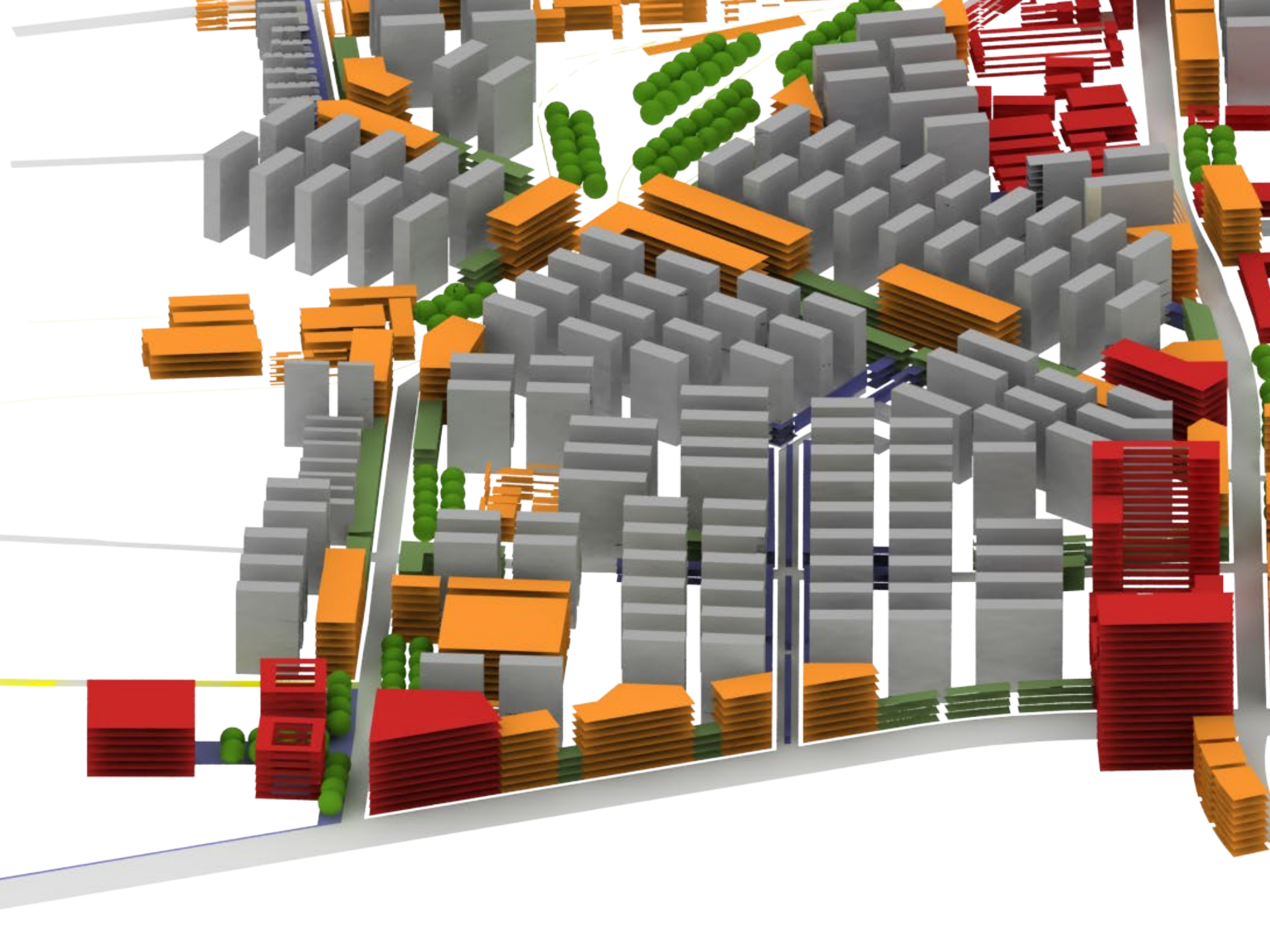
MODEL

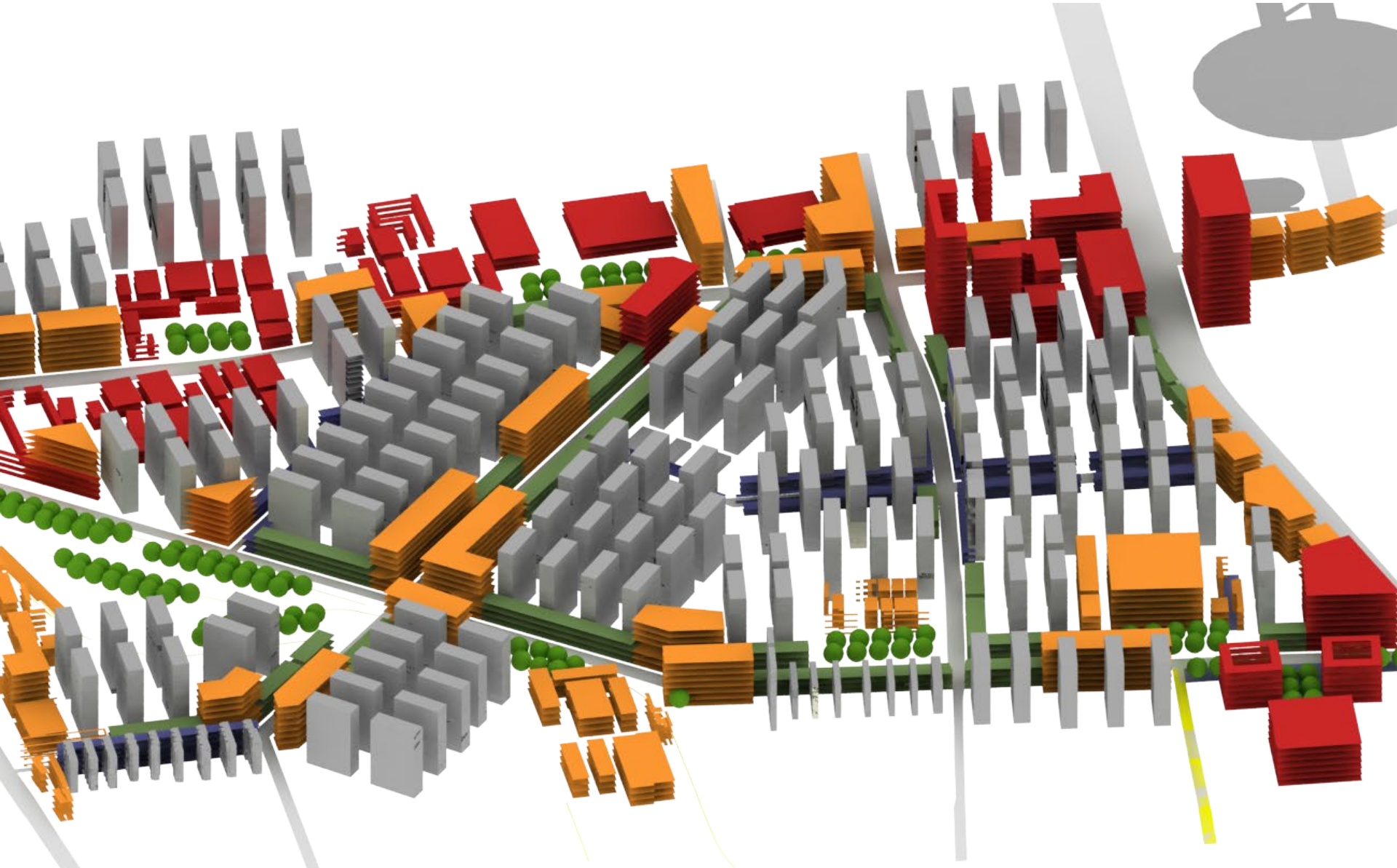
City

boulevard

25m



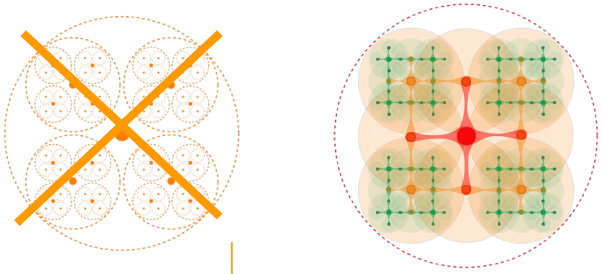




REFLECTION

1 Learning from **REALITY**

GOVERNMENT



2 Learning from **history development**

3 multiple dimentions: spatial social economical.....

methods would be the same

DANK U!