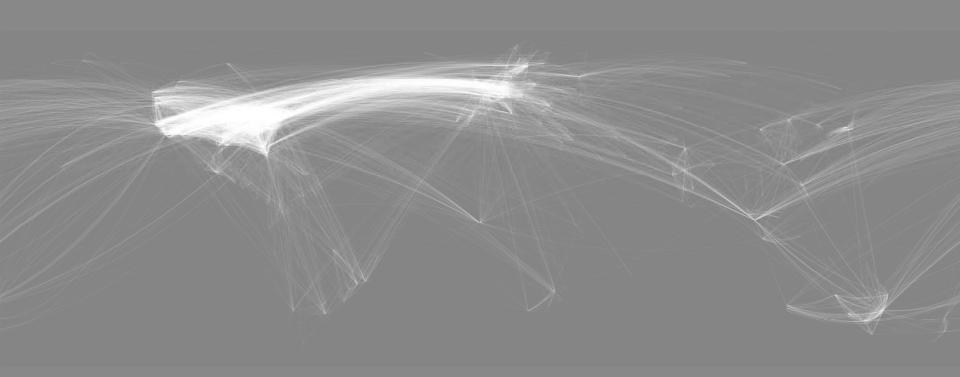
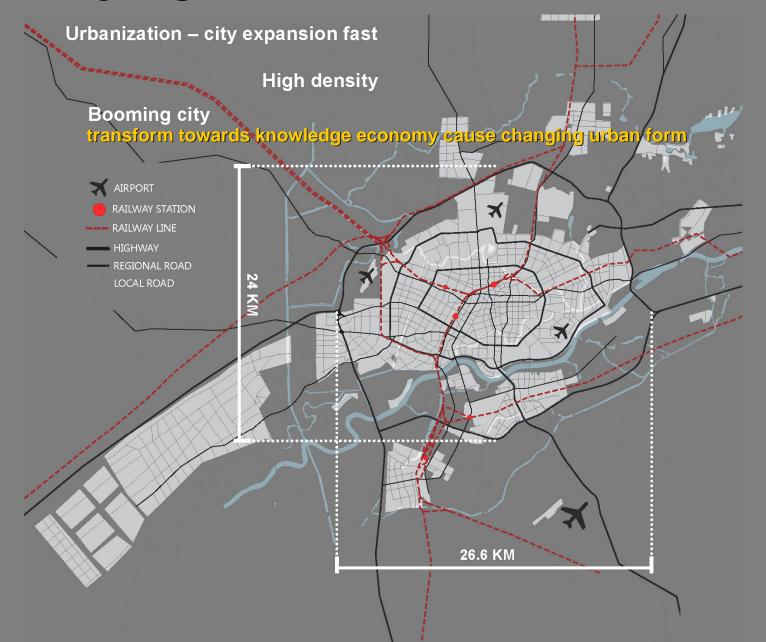
# Univer 'city'



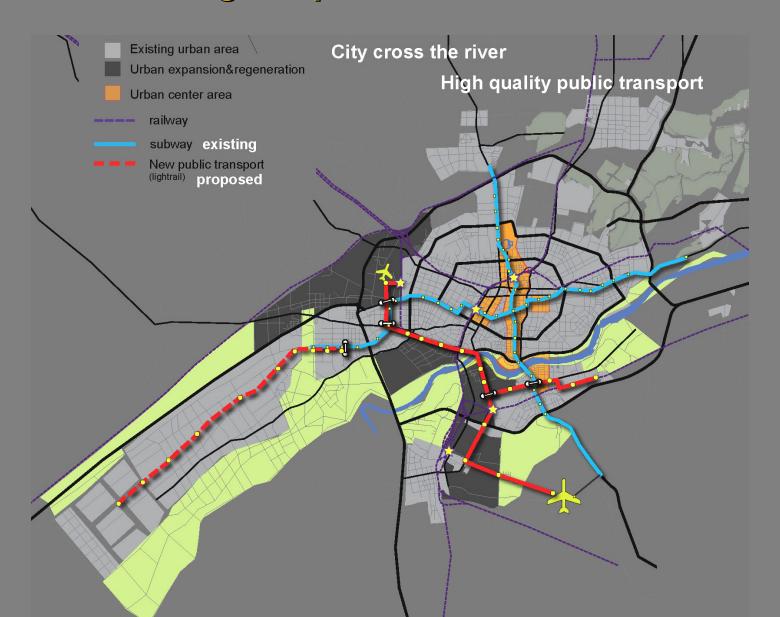
new livable creative city in the KNOWLEDGED PERIPHERY of Shenyang



### Shenyang – central city of Northeast China



# Long term vision for Shenyang - Knowledge captial of Northeast China

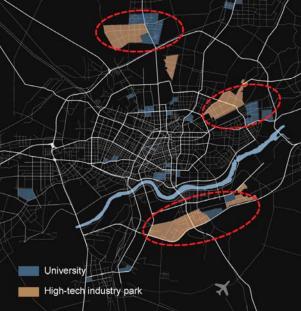


### South bank of Shenyang - new district of the city



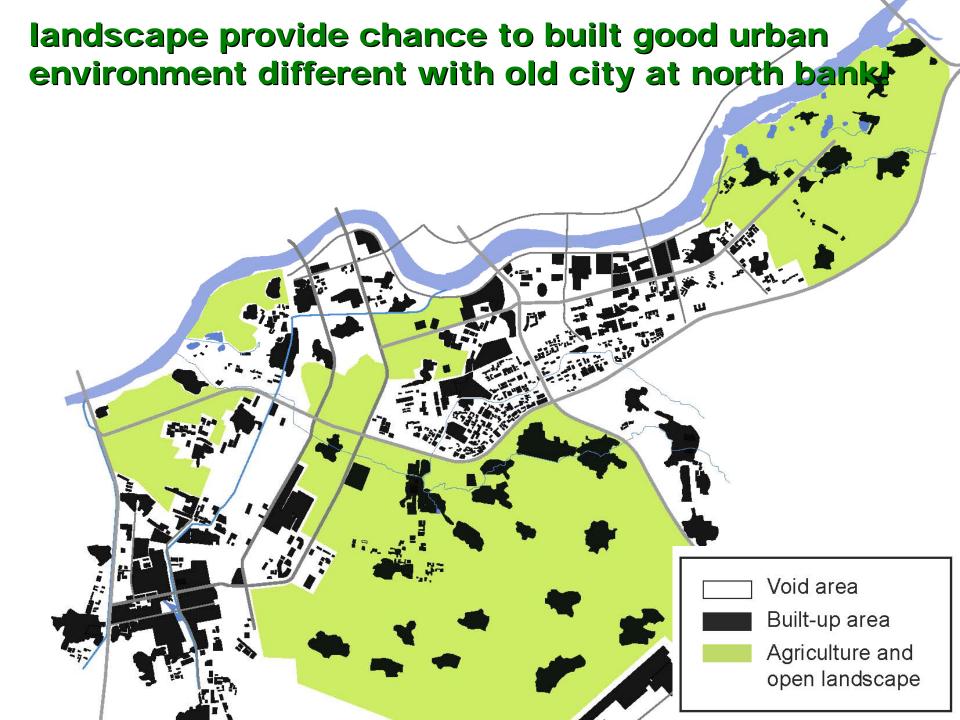


Main expansion direction because of high-tech industry development

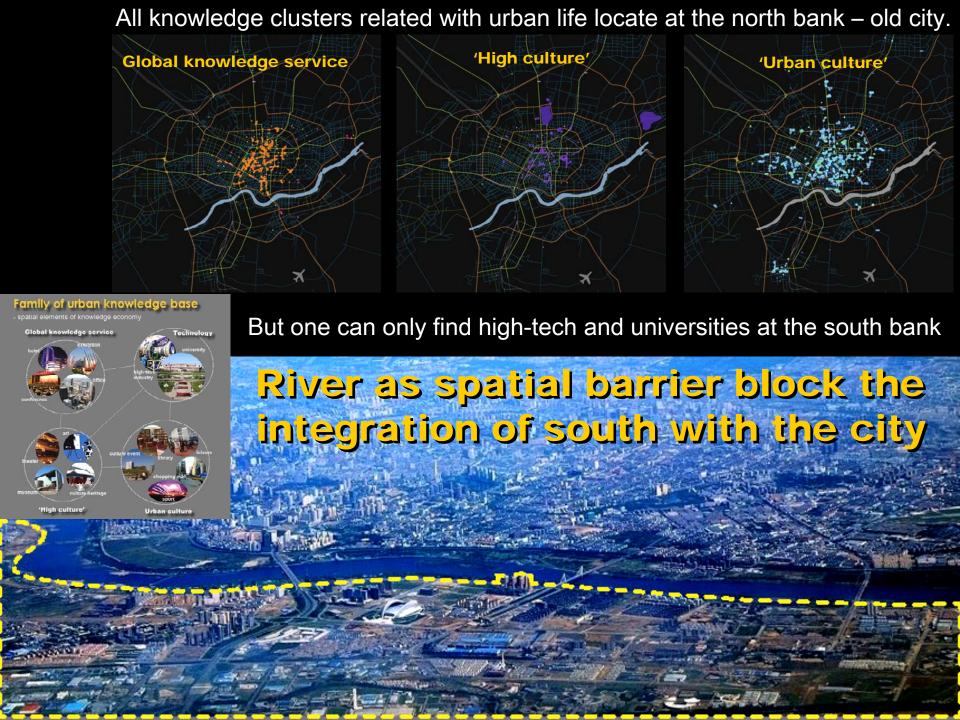


# Potential landscape resource at south bank





However, with the agglomeration of knowledge clusters, there are some problems emerged.....

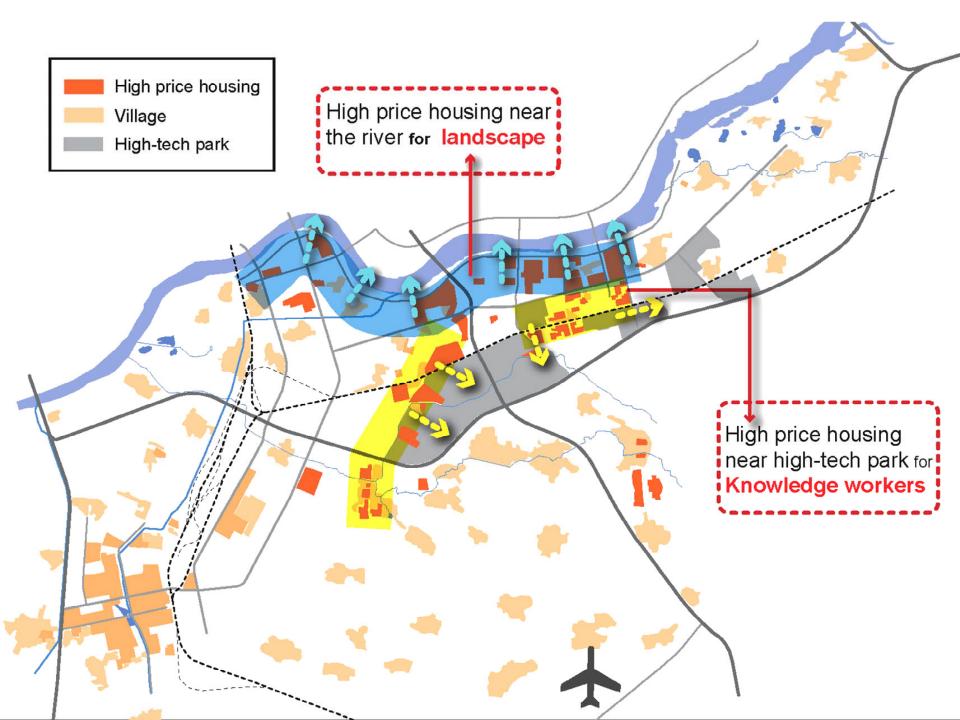


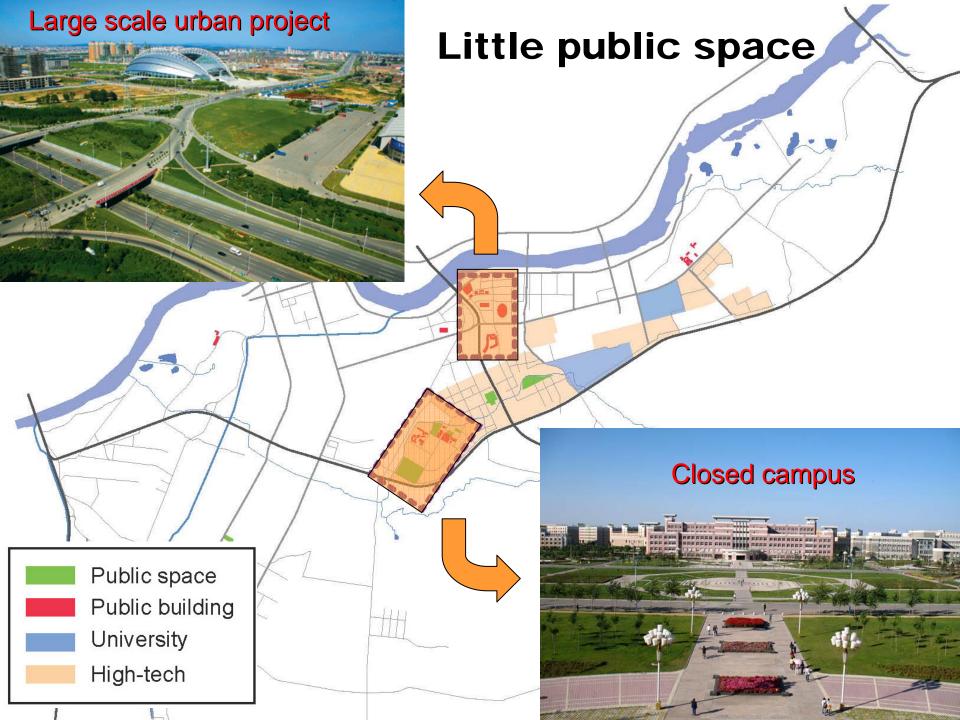


# **Spatial segragation** caused by social segragation

55.000 farmers living in village

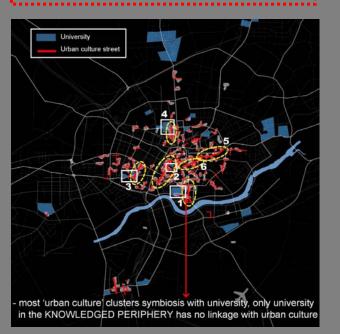




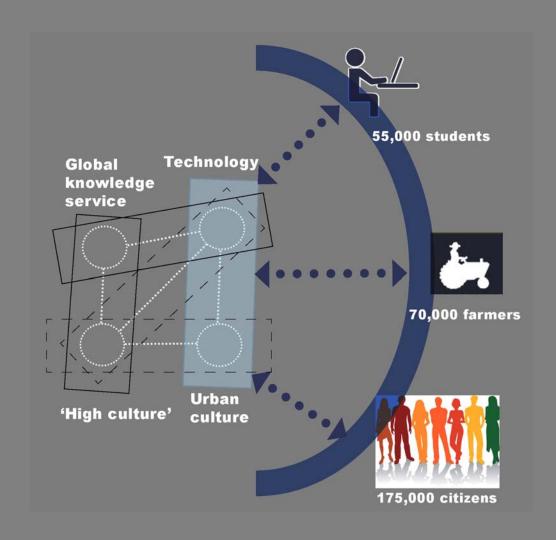


Then, what are potential urban elements as instruments to create new urbanity?

# 'Urban culture'



# New universities can be core urban elements to reorganize spatial structure of the south

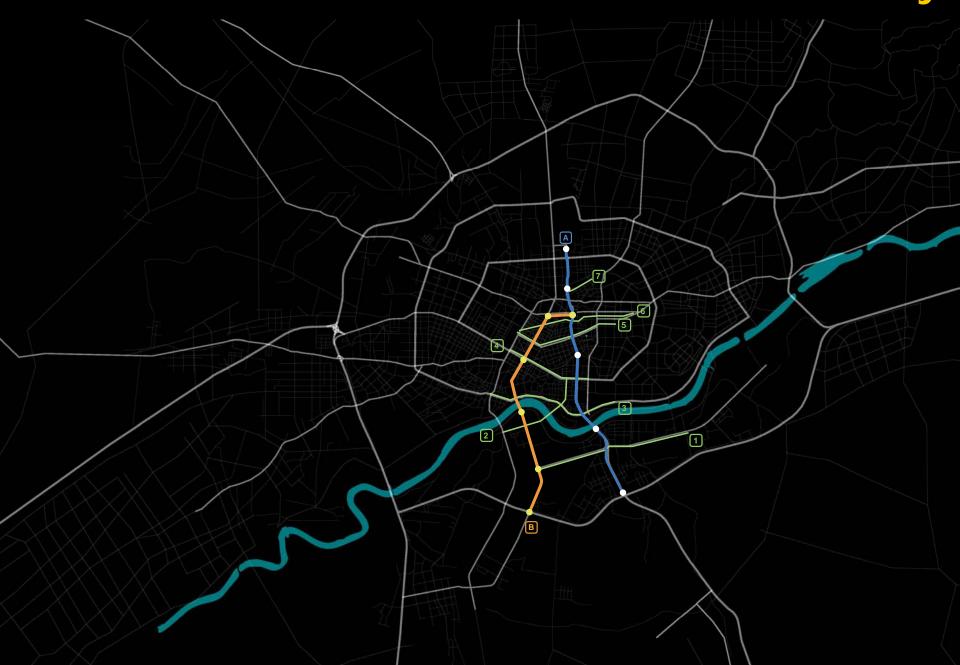


University can serve all 3 different kinds of inhabitants if integrated with 'urban culture' street

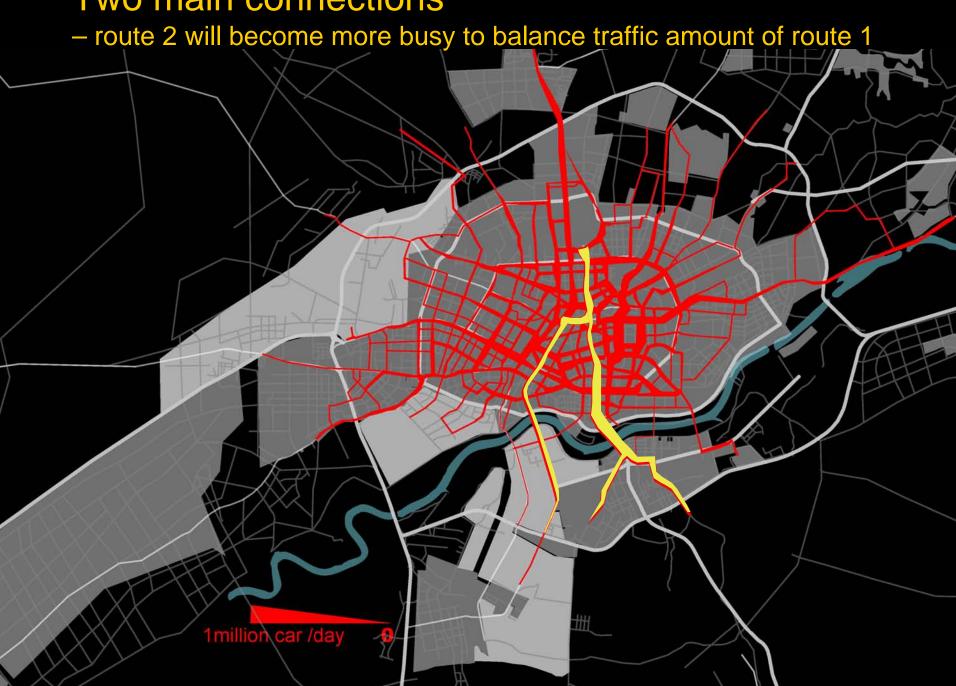


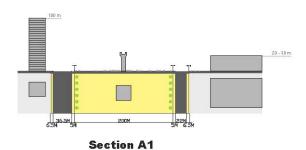
Connect the south with traditional city – to be a new organic part of the city

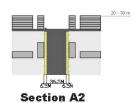
# Two routes connect south bank with old city

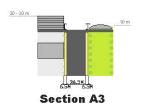


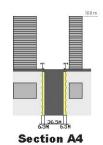
#### Two main connections

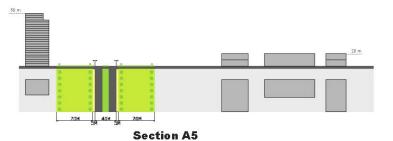


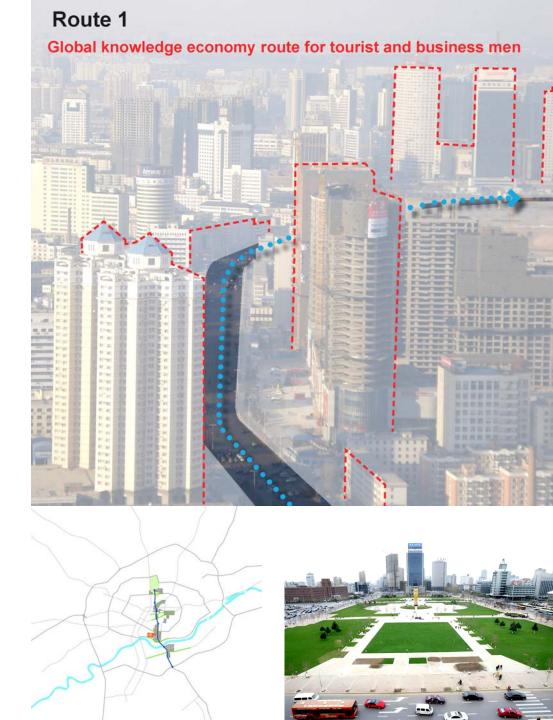


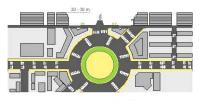






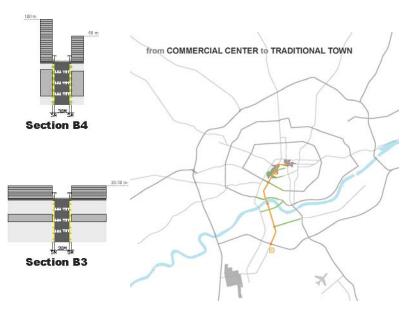


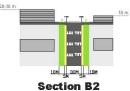






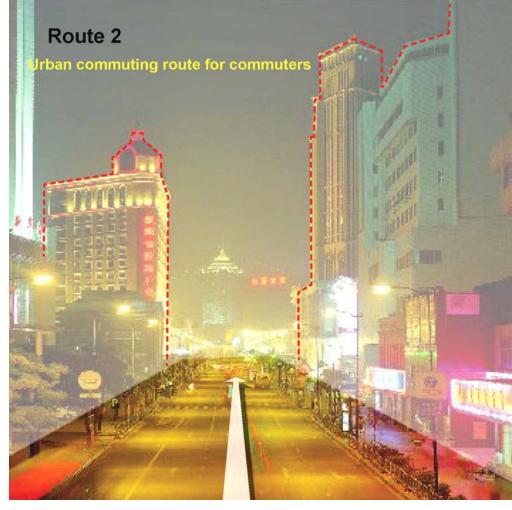
Section B4/5





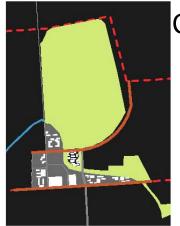


Section B1

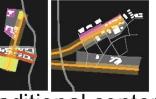








royal park



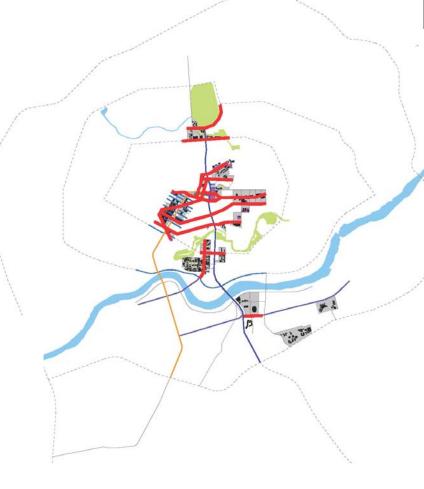
traditional center



media market /
TV station / university

# Connection street between route 1 & 2

## Urban living street

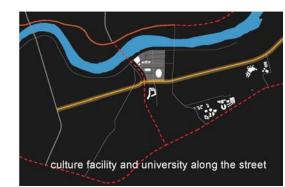


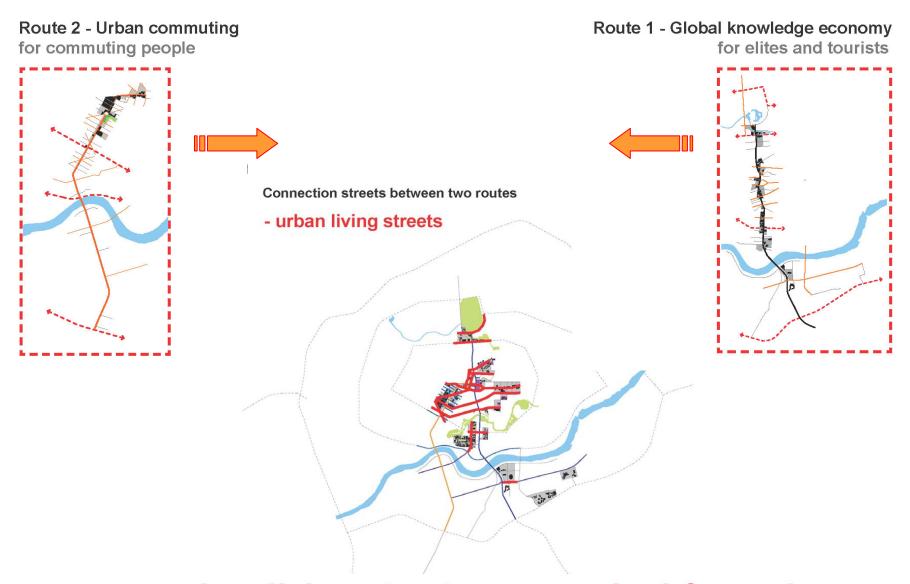
No.

old forbidden city and square



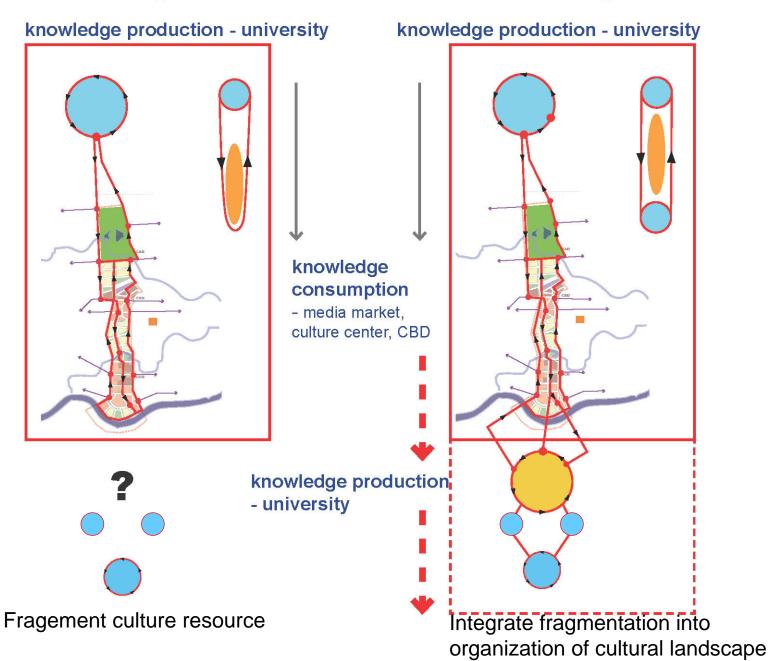
shopping mall and park

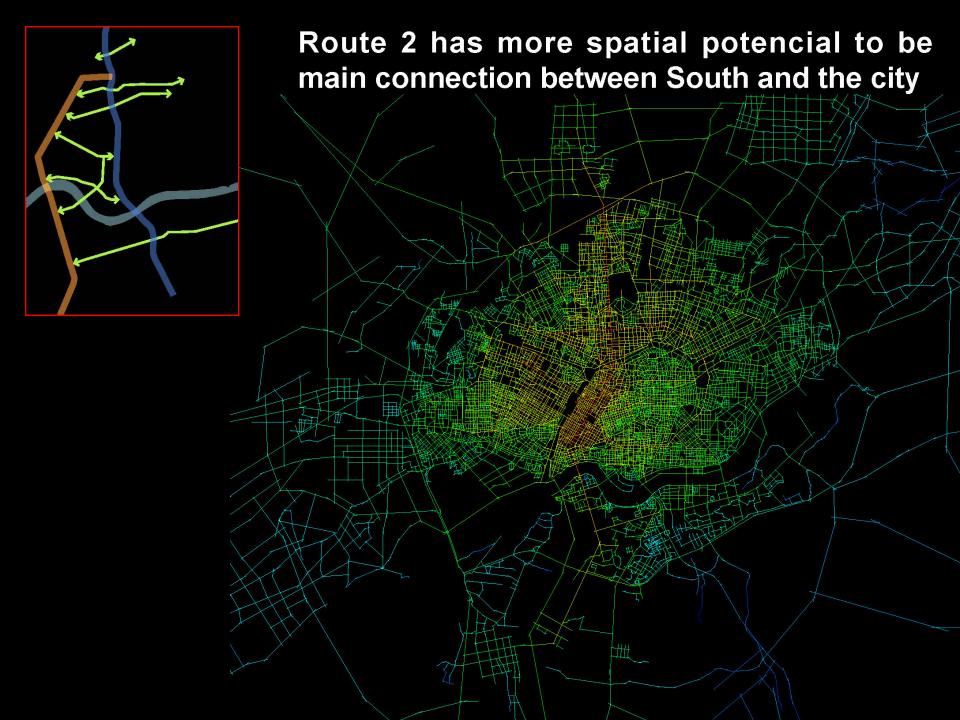




urban living streets are required for real urban life which are needed in the south

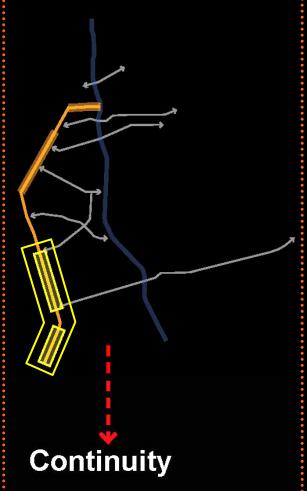
#### Aim - integrate the south with the whole city



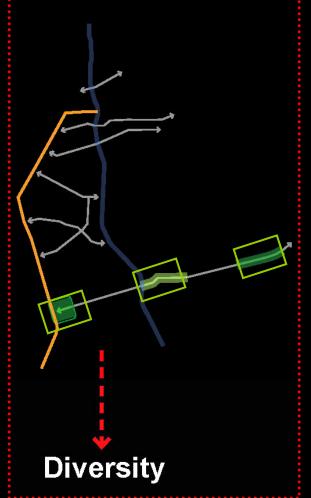


## **Spatial strategy**

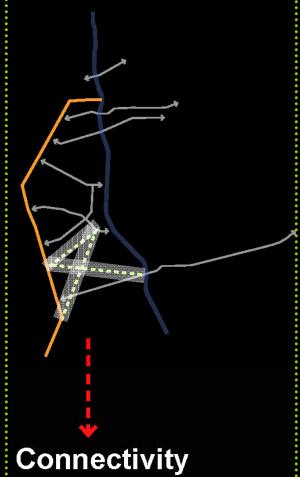
Extend distribution of urban activities along route 2

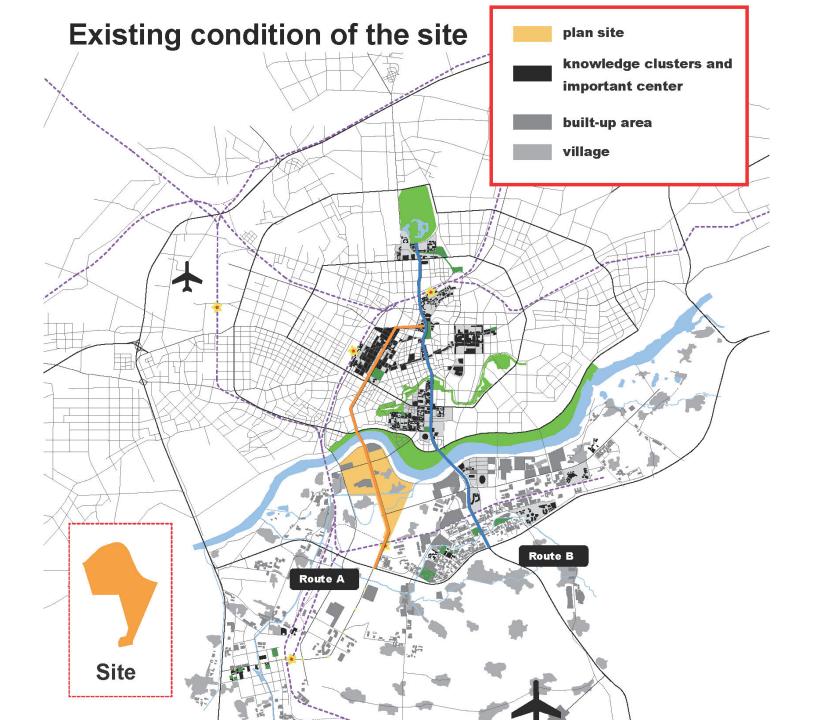


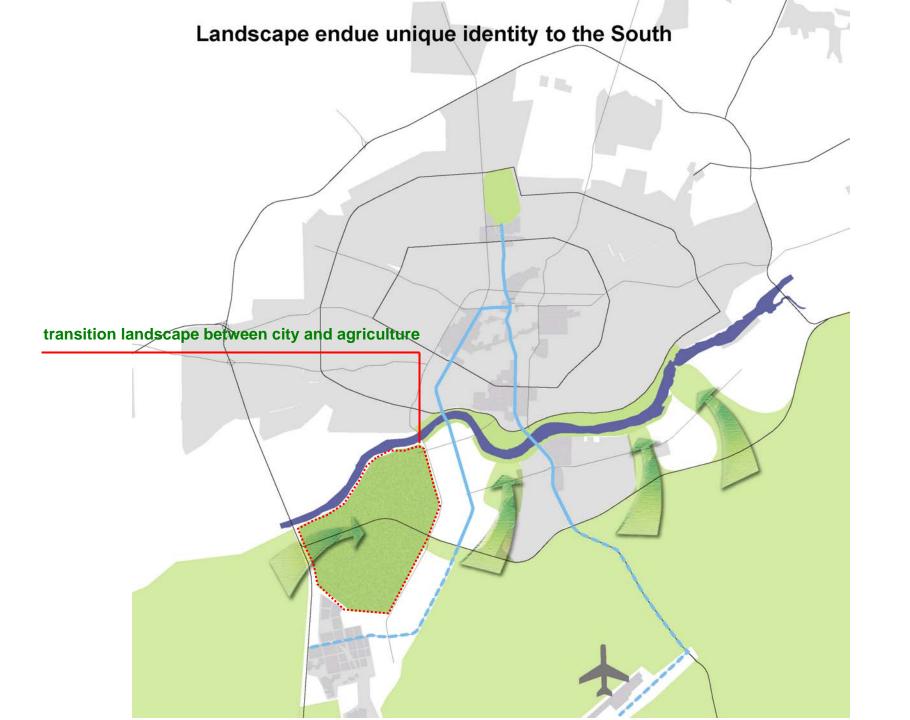
Highlight 3 nodes as new centrality at the south bank



Create new connection streets in-between routes 1&2 as southern counterpart being urban living streets

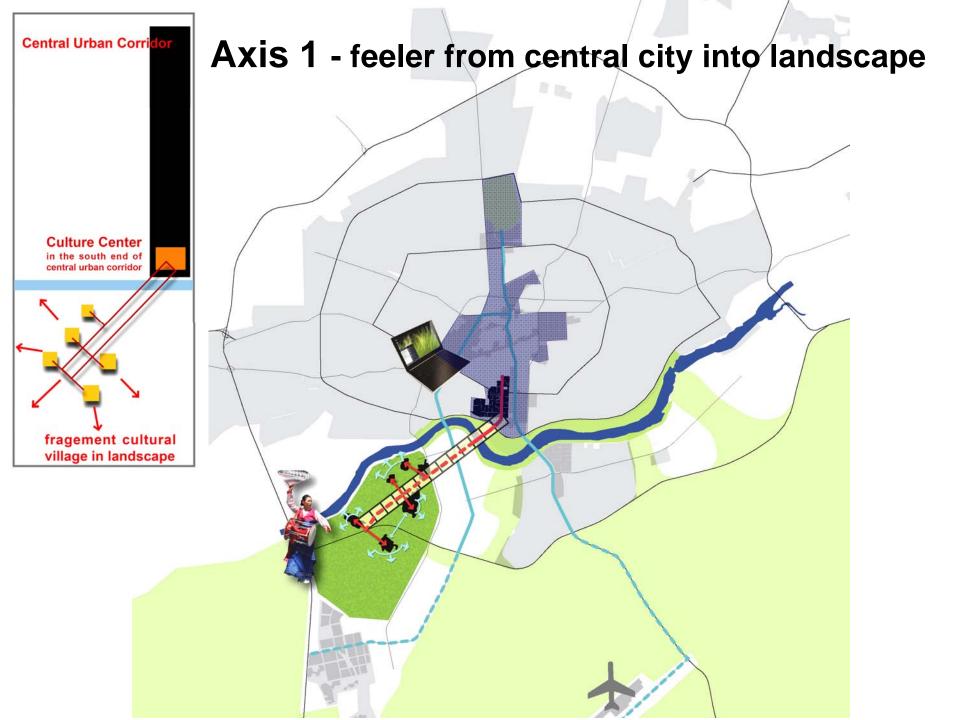


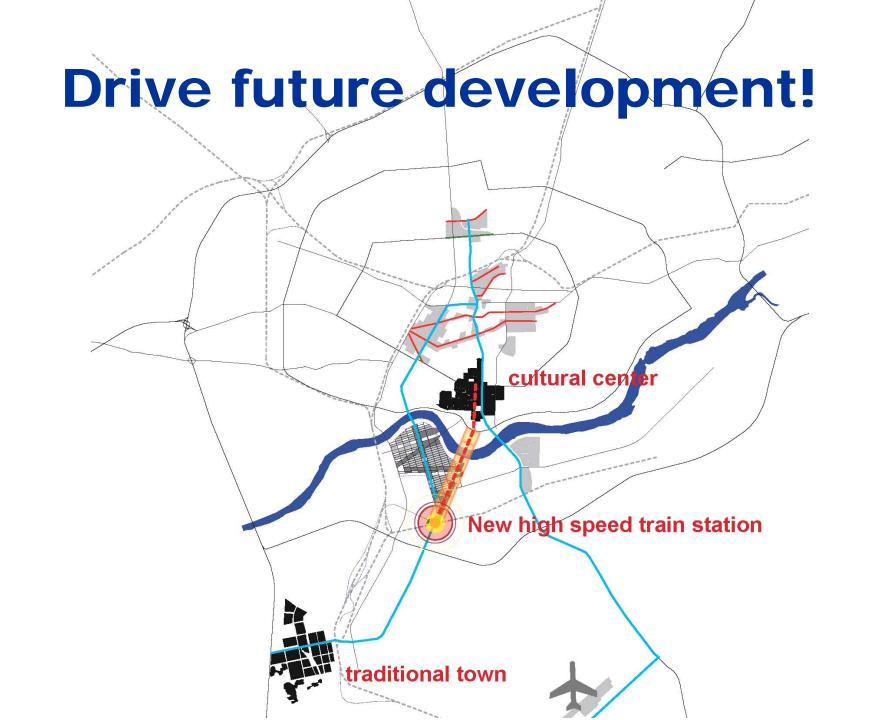


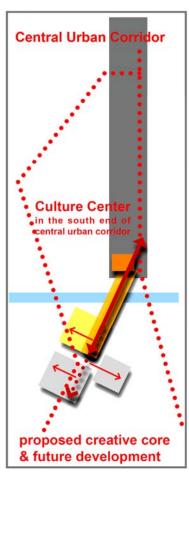




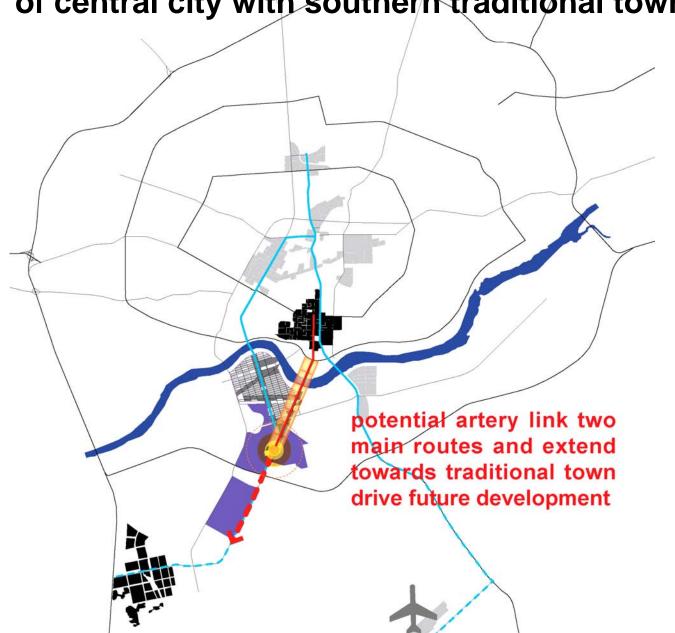






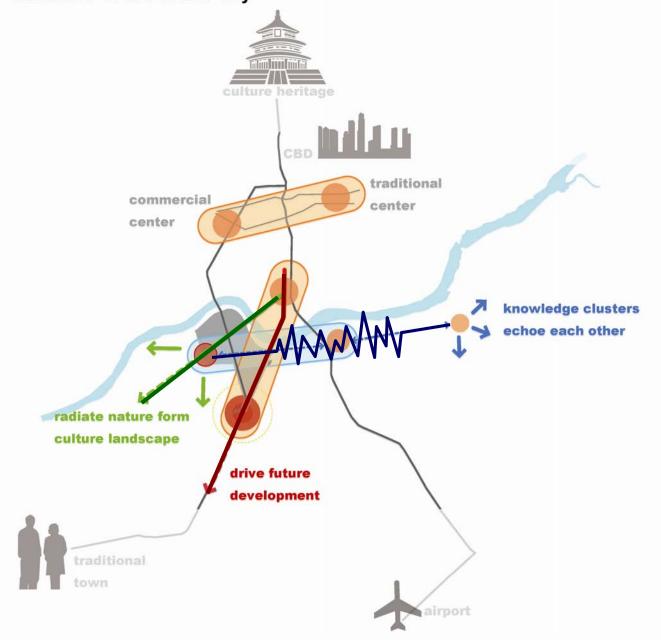


Axis 2 - emerging bond tie knowledge centrality of central city with southern traditional town



#### Spin - off

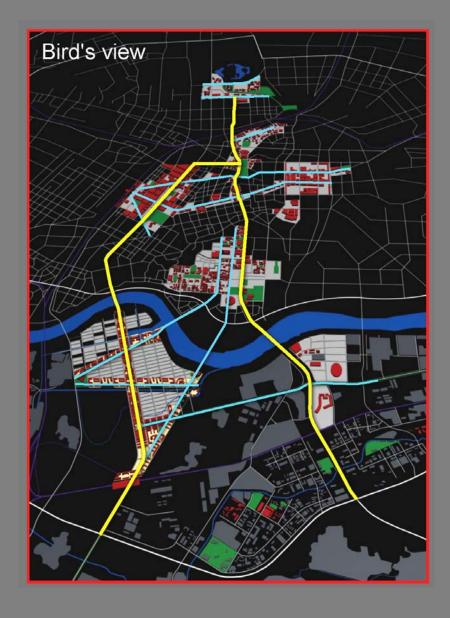
- forming organic cultural landscape in the South to echo the structure of the whole city



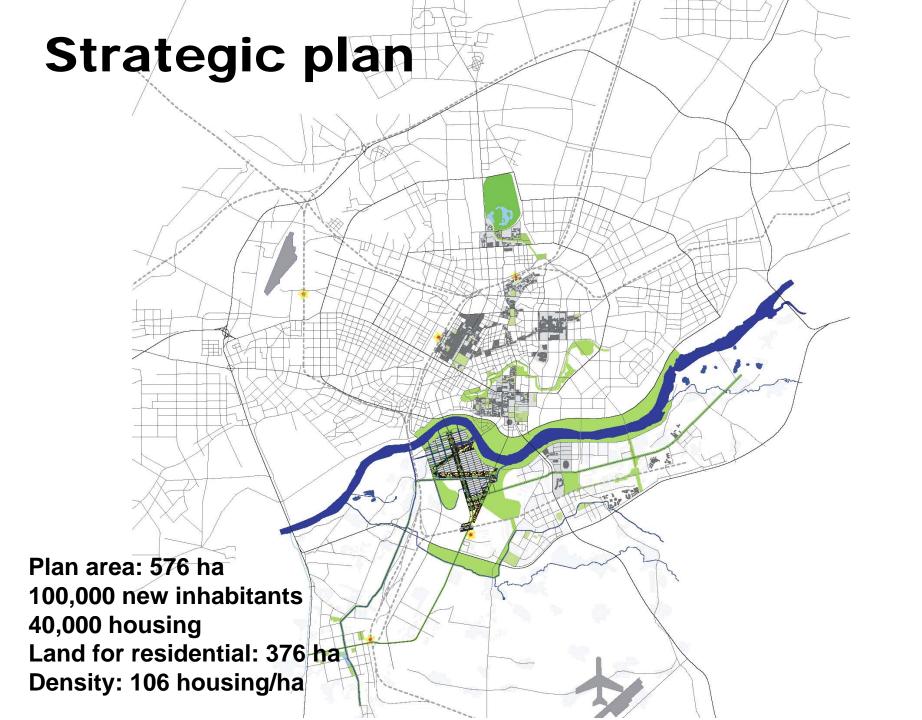




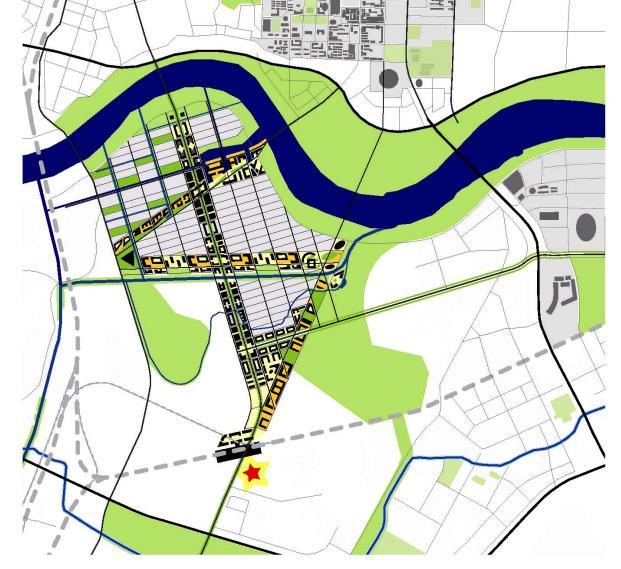




# 3 UNIVERSITY COLOR 3 SECTIONS media market city memory Muology college RESPOND LOCAL CONTEXT constructing culture center art college business college university as spatial instruments to organize new HST sorrounding urban environment @ station







University area: 78 ha Floor space: 1.150.000 sqm

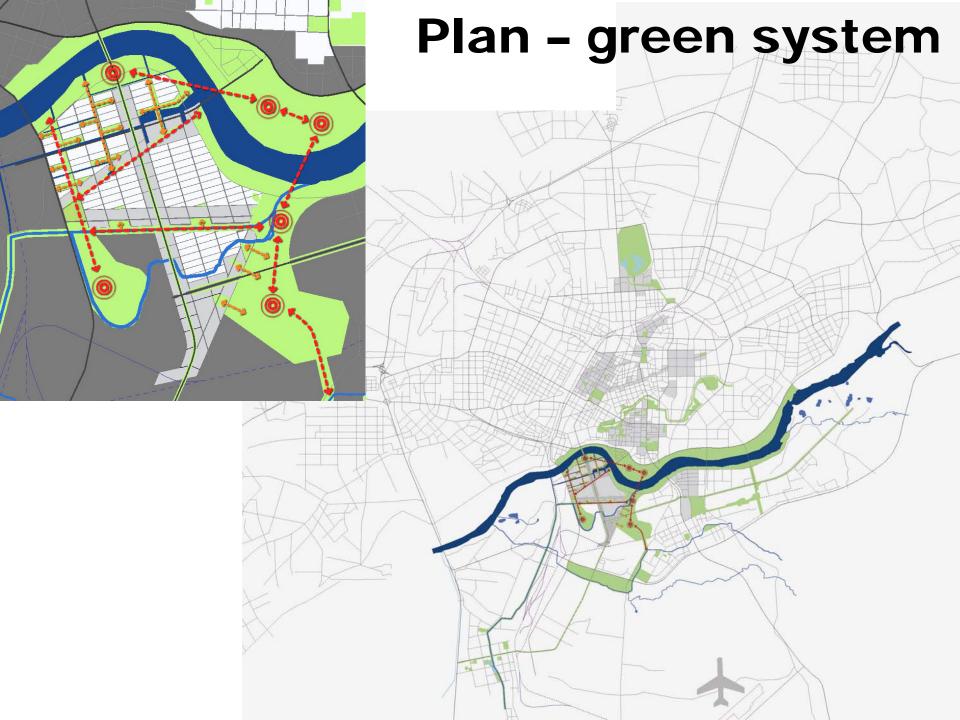
11.000 students

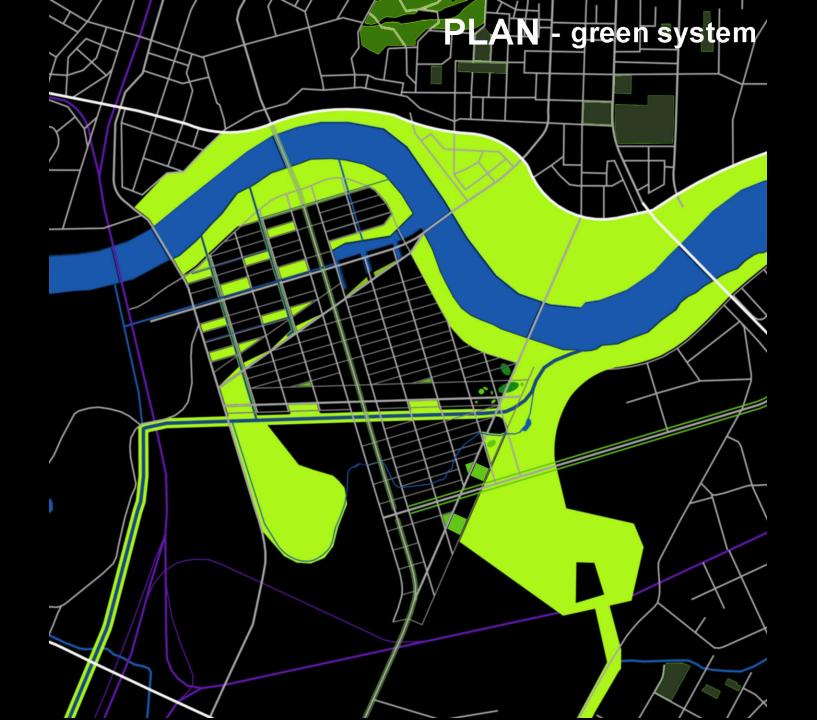
Urban culture related with university: 55 ha

10-15 companies 11. 000 employees Commercial area: 67 ha

Residents: 5.000

university has similar size with MIT [US] (Massachusetts Institute of Technology, Cambridge)
Shenyang city (5.2 million people) has the similar size with large Boston metropolitan area (4.5 million)





#### Green & blue as feeder from the river

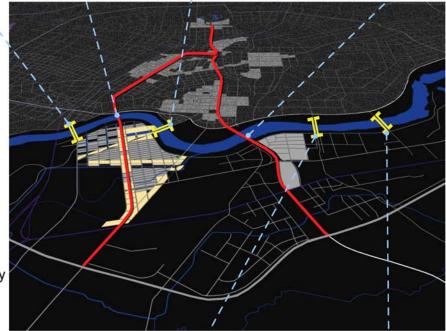


### **River view**





## Bridges cross the river



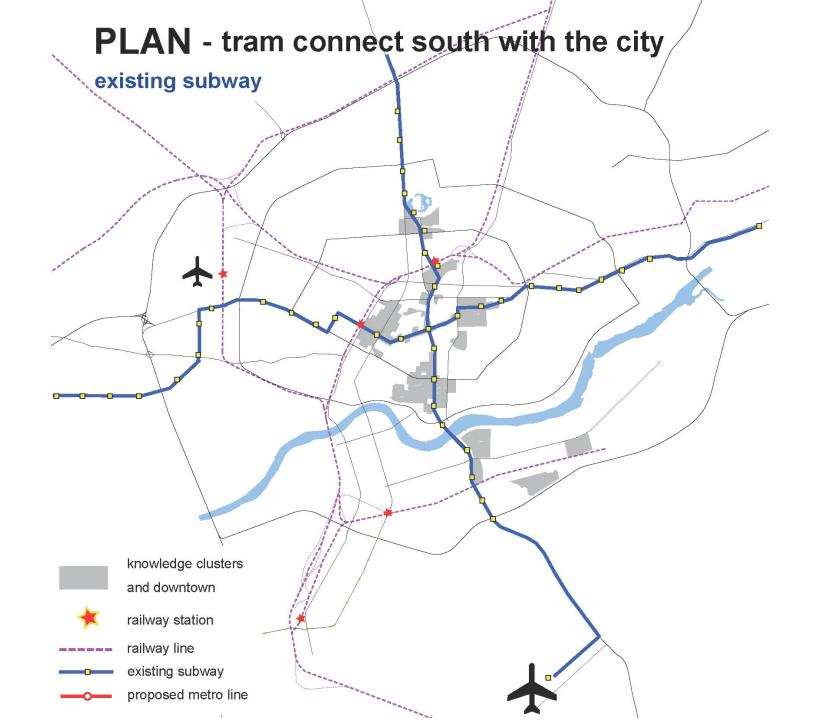
Main connection between sout & city





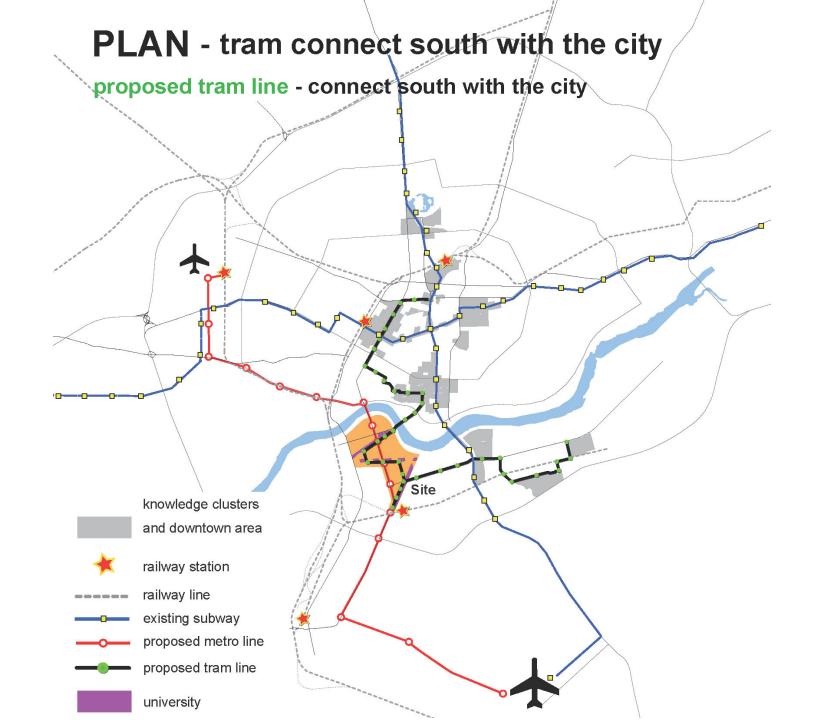






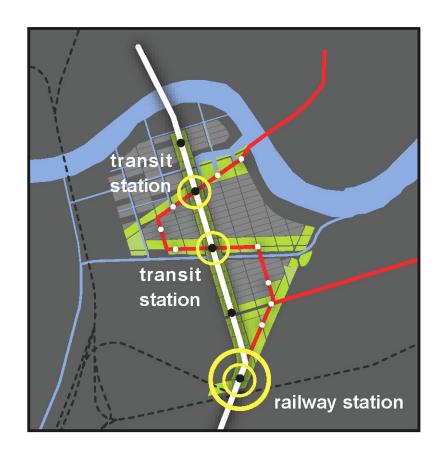
# PLAN - tram connect south with the city

proposed metro line consider from city scale (see collective work) Site knowledge clusters and downtown area railway station railway line existing subway proposed metro line



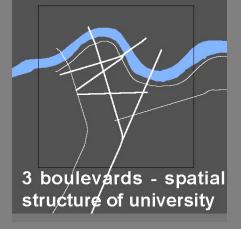
# **PLAN** - public transport

transit among different public transport

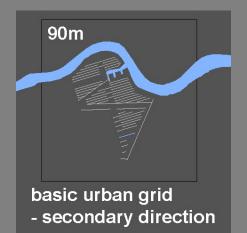


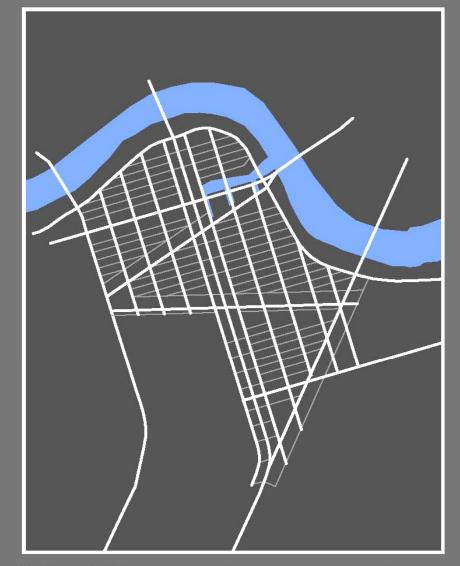
3 transit station

distance: 1000 - 1500m





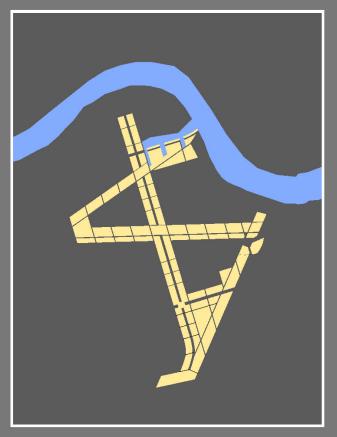




250m \* 90m grid: flexible urban form north to south - mainly for Motor Vehicle north to south is the main direction for traffic of the site due to the position (bridge area to cross the river) west to east - mainly for pedestrian

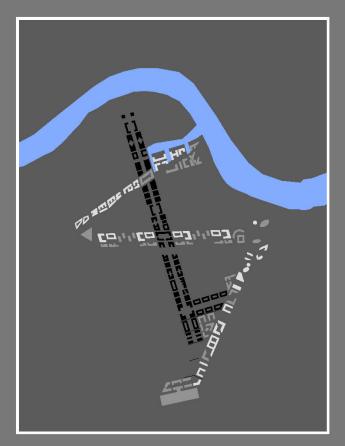
# PLAN - block

# building mass





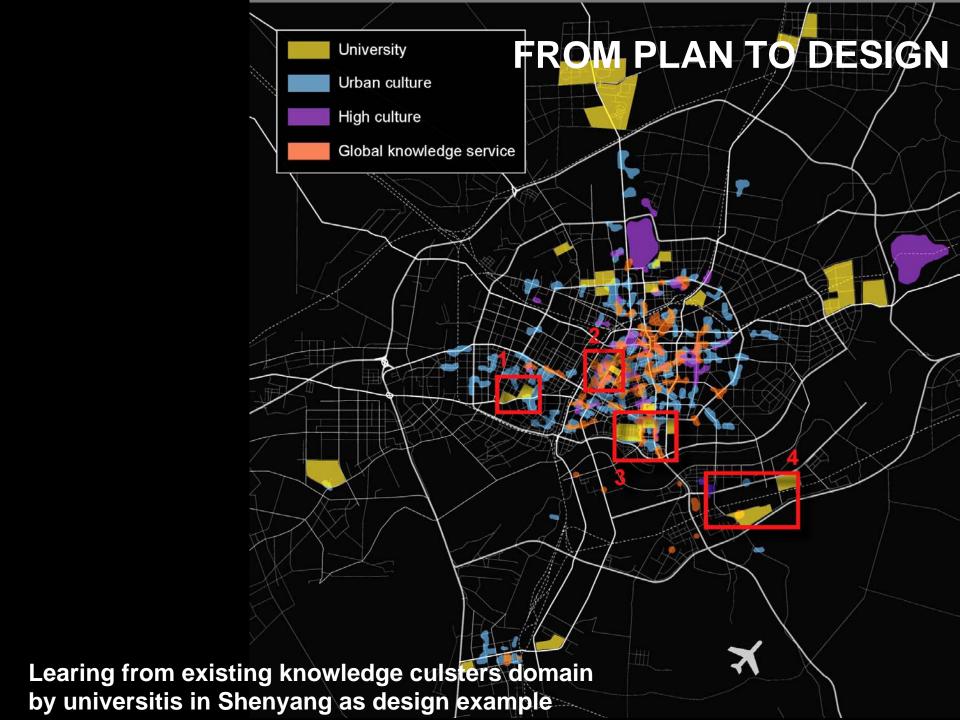
- university and main shopping street



public building and space used both by university and general public people

general block

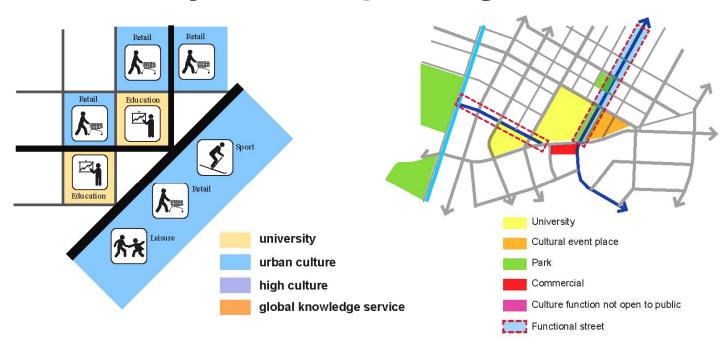
- mixed use residential





Cluster 1 - university & urban culture connect by two streets

#### University inside the poor neighborhood



Common example in Chinese cities

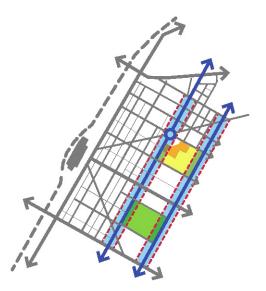
streets connect university and retial, park



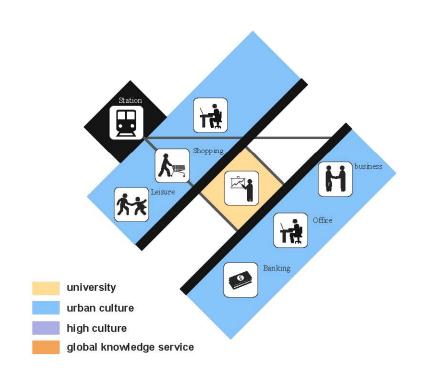


Good example especially together with railway station

#### **University in commercial center**



University in-between office streets

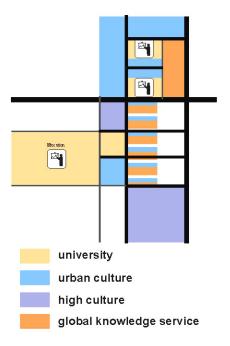




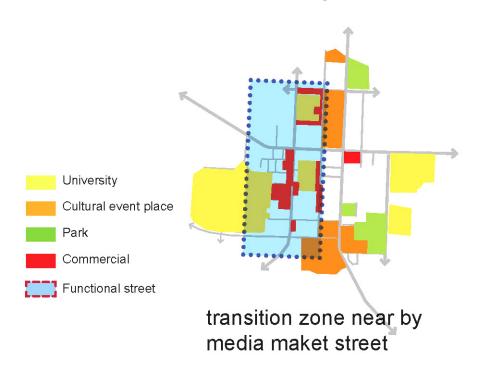
Cluster 3 - three universites along main street and generate a special shopping district (art, computer, software)

### Universities in urban cultural district

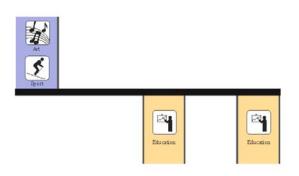
Best example because of highly mixed knowledge clusters



Highly mixed use area

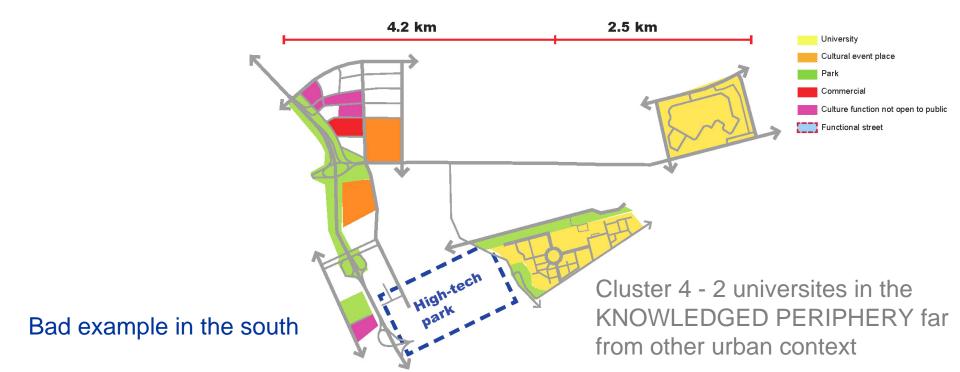






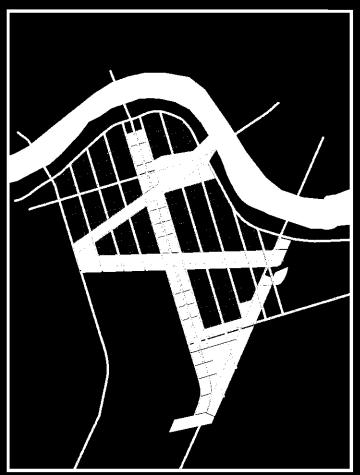
No relationship between the **new** cultural center and universities.

### Universities in the knowledge periphery



# **UNIVERSITY DESIGN**

- 3 different relationship between university & 'urban culture'
- avenue as connect universities and city
- public space and landscape organized by university avenue



# University design - avenue as spatial backbone



#### University 1 - Infiltrate

building

building

- 'urban culture' and technology faculty form urban 'hotspot' as articulation in-between two banks

Collective - Public space infiltrate into campus as meeting places 'urban culture' University Public space campus

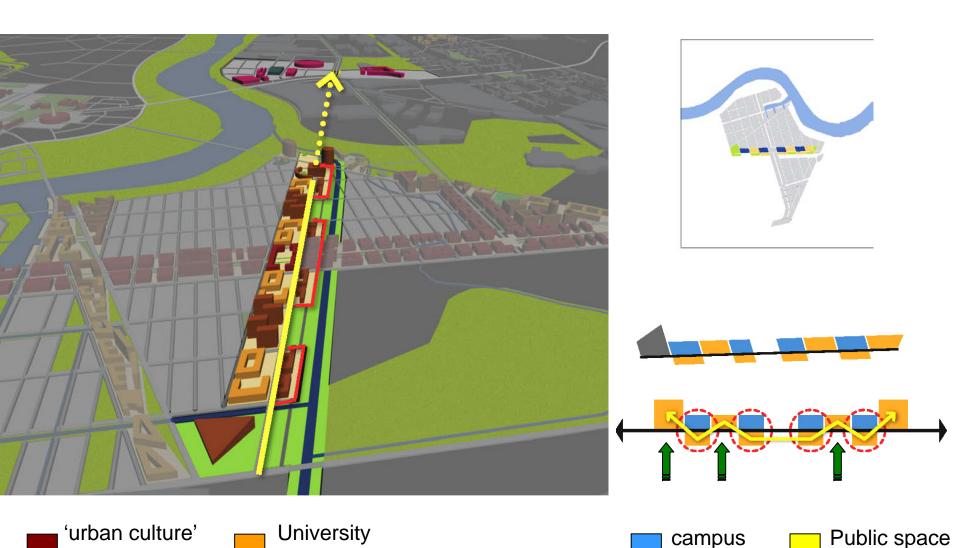
#### University 2 - Homogenize

# **Ecological campus**

Landscape and 'urban culture' locate homogeniously with art faculty

building

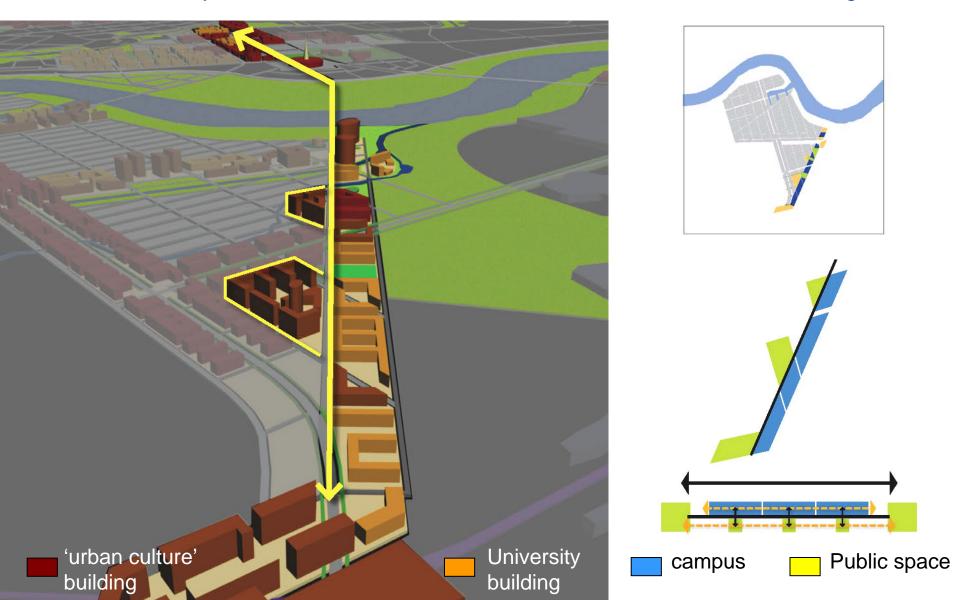
building



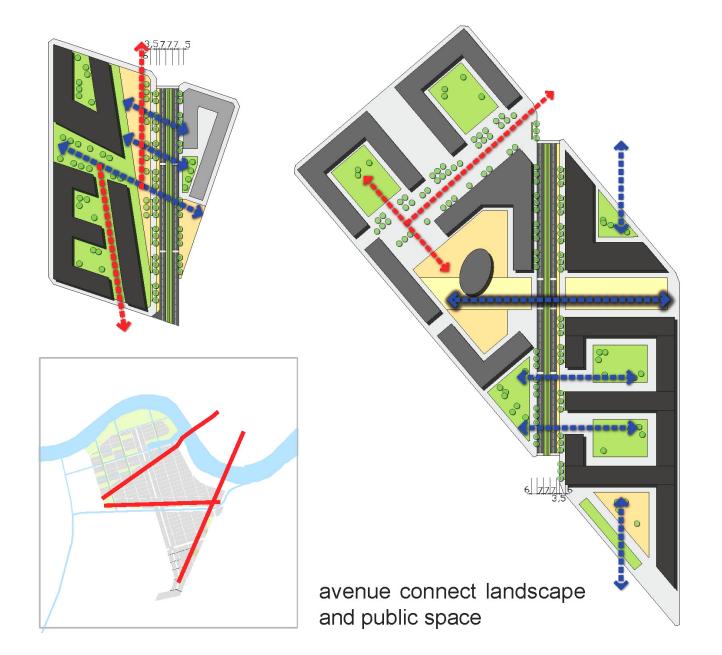
### University 3 - Branch

# transition campus

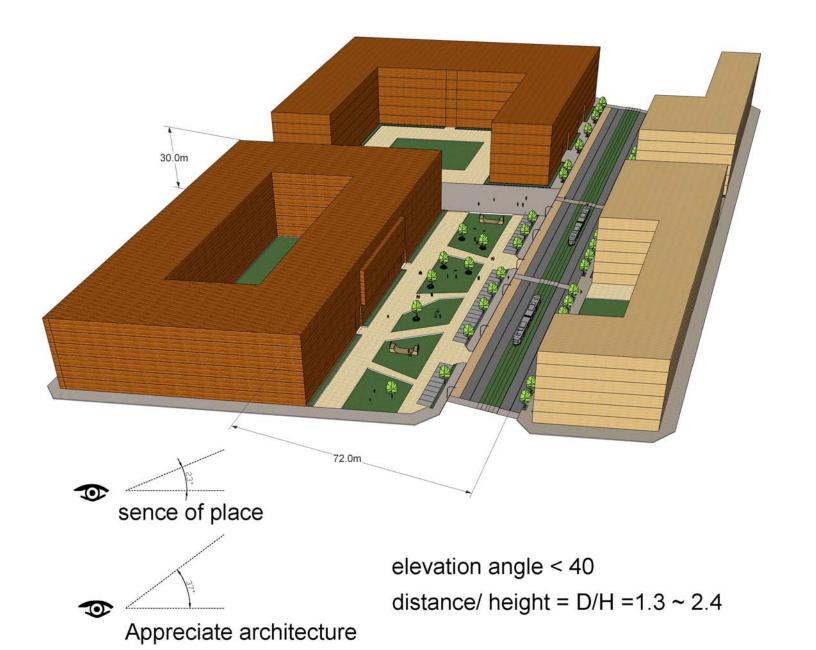
business faculty fertilize business district as branch and connect urban and green

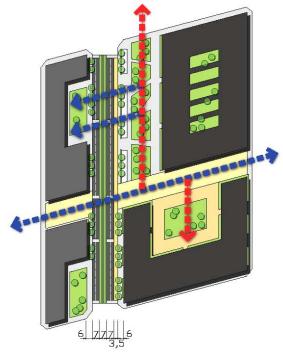


# University design - public space link with avenue



# University design - avenue & public space



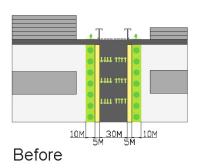






tram add green and different experience to the avenue

# Main shopping street



high speed road

main shopping street with department store block along it

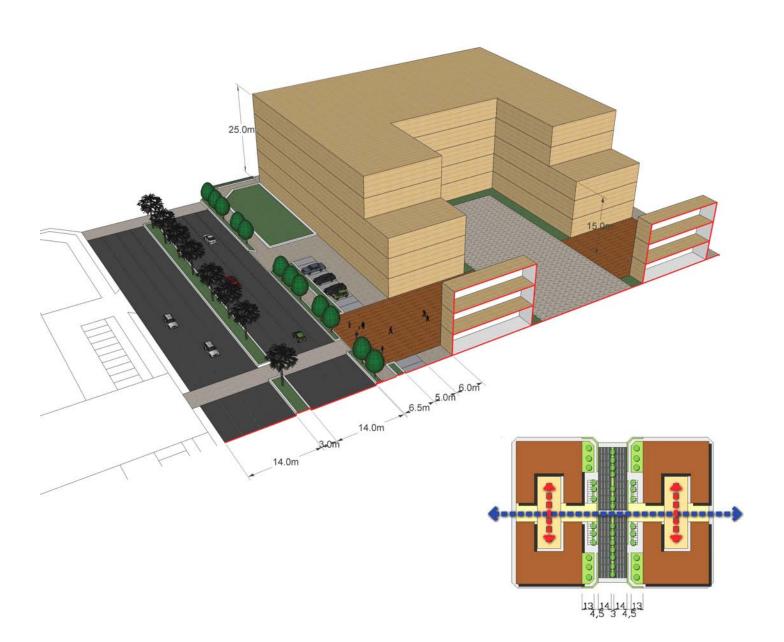




landscape in the middle of the road, shopping block has inside pedestrian street and public space and good accessibility to public transport - new metro line

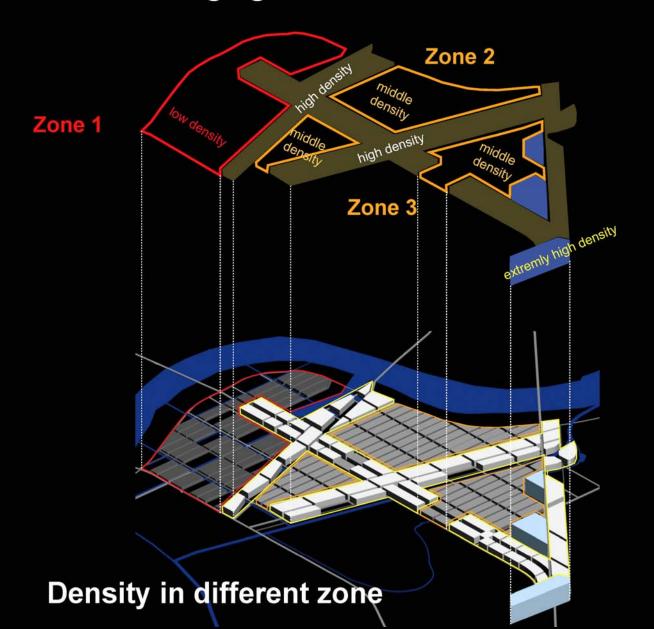


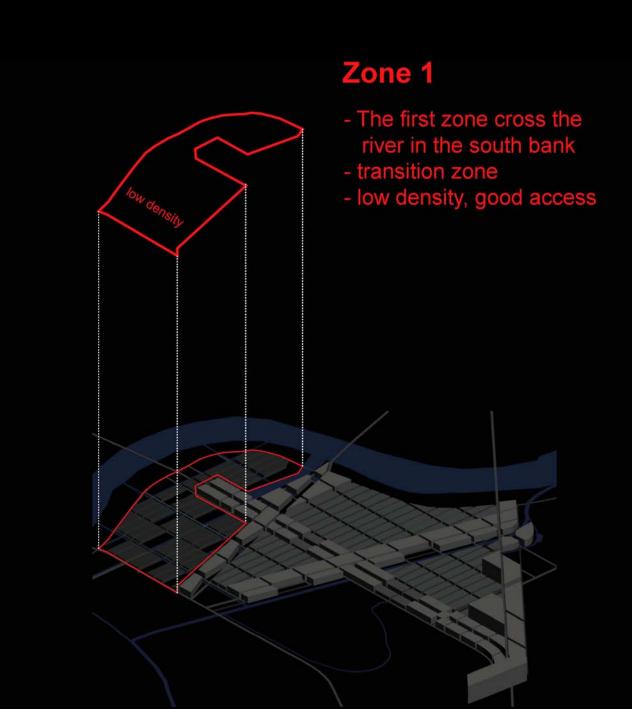
# pedestrian public space inside the block



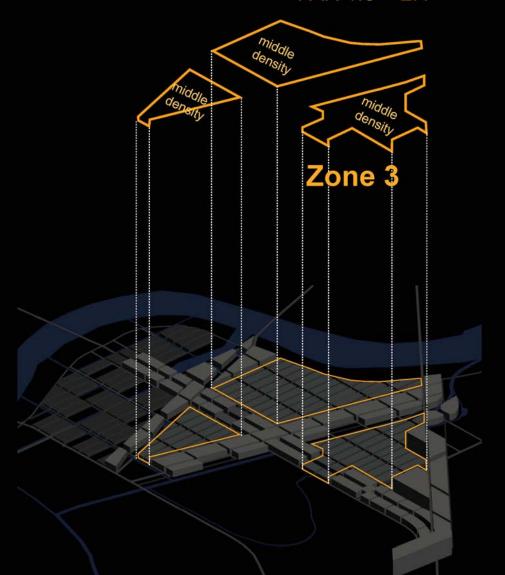
# CONTROL

- urban design guideline of residential block



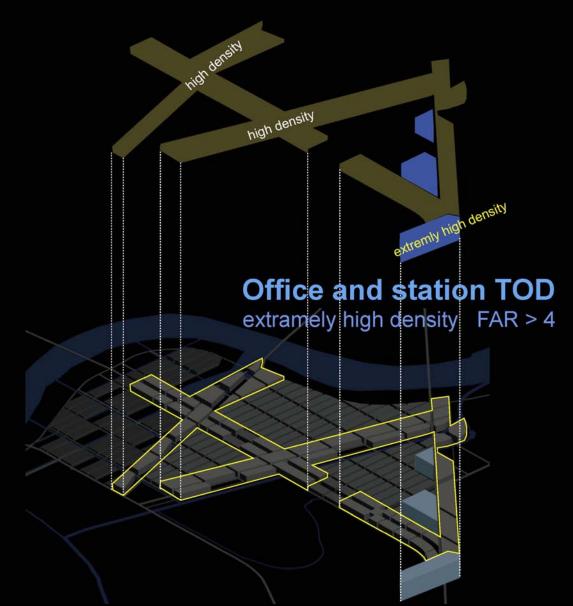


Zone 2 general residential area with middle density FAR 1.8 ~ 2.1



### University and shopping district

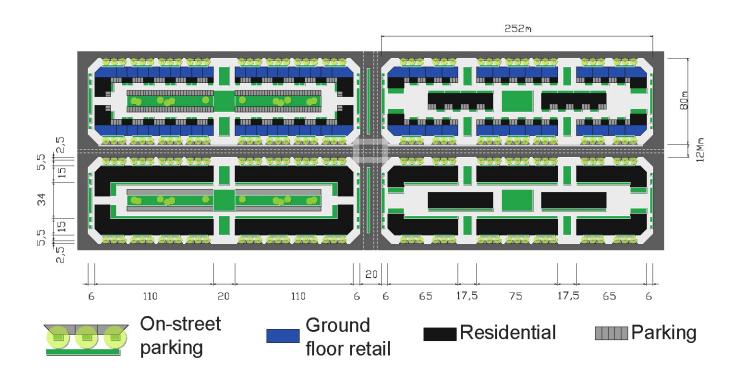
high density FAR  $2.5 \sim 3$ 



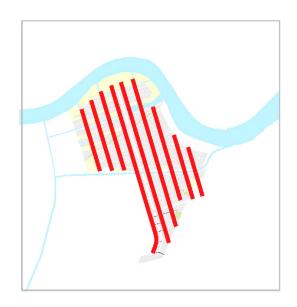
# Low density - with large green in zone 1 which is near the river High density - not suitable for Shenyang because of cold weather Middle density - in zone 2,3 to the south of zone 1

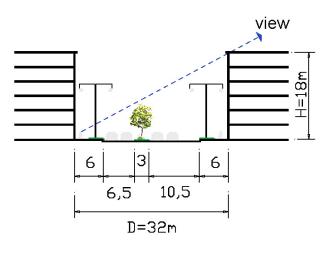
#### General residential block

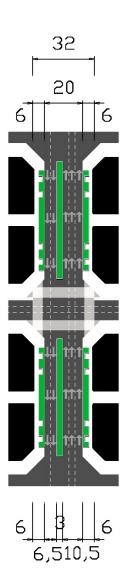
- Ground floor retail along roads with pedestrian orientation
- Inerblock green with parking
- Parking along secondary roads



## General residential block - main road







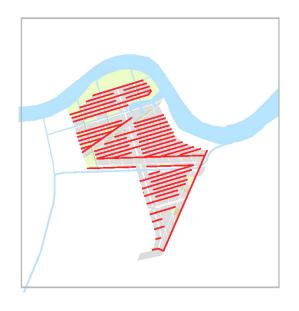
D/H=1.78



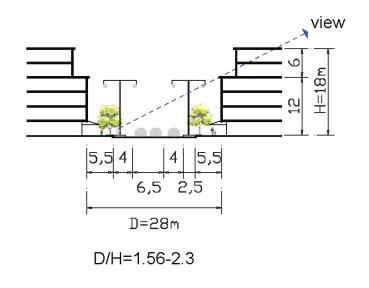
# north to south

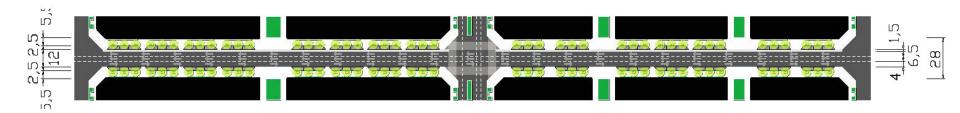
- mainly for Motor Vehicle with landscape in the middle

# General residential block - secondary road



west to east







- mainly for pedestrian with retail along the route and also has dedicated lane for bus and bike. There are some parking place along the road, too.

