

FROM MOBILITY TO ACCESSIBILITY: REINVENTING CHINESE CELLULAR URBANISM

Short-distance travels viewed from Wuhan urban practices and environment

ANDRE Georgina 安乔芯

PhD Student – Sorbonne University & Wuhan University

博士生 - 巴黎索邦大学, 武汉大学

研究负责人- 法国夏邦杰建筑设计



architecture | architecture intérieure | urbanisme | paysage

From mobility to accessibility: reinventing Chinese cellular urbanism

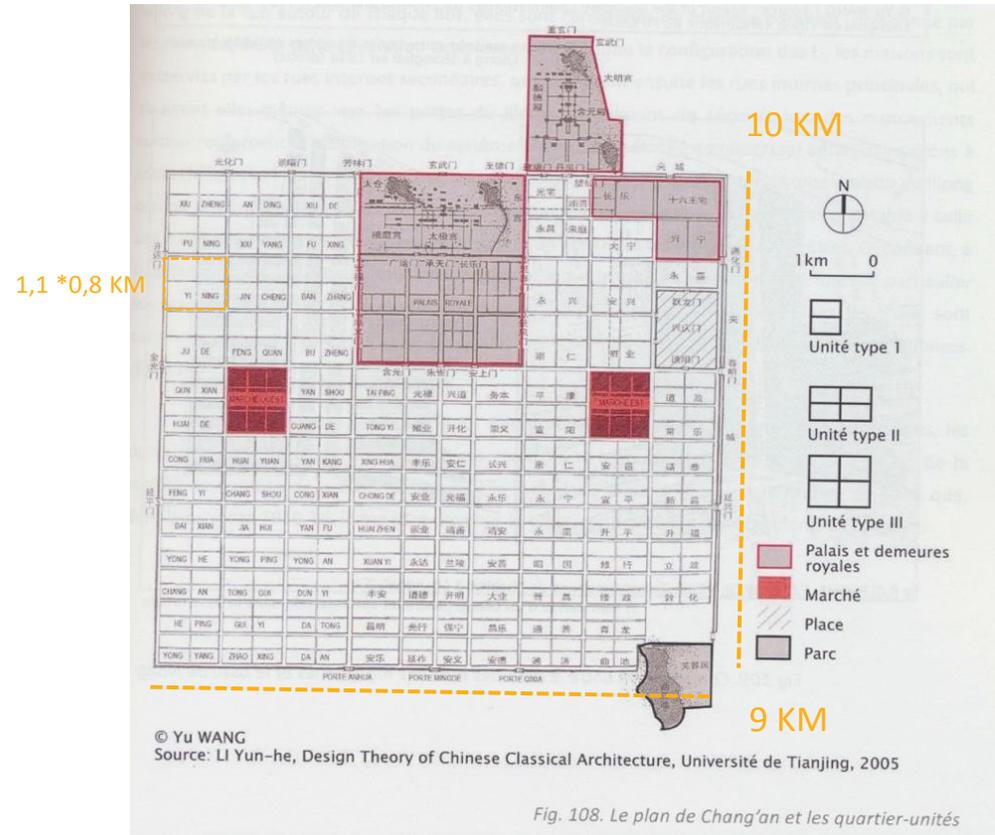
- The resilience of proximity travels thorough Wuhan development
- The rescaling of city, neighbourhoods and residential units
- The effect of city rescaling on Wuhanese people's mobility practices
- As a conclusion: prospects for planning

From mobility to accessibility: reinventing Chinese cellular urbanism

- *The resilience of proximity thorough Wuhan development*
- The rescaling of city, neighbourhoods and residential units
- The effect of city rescaling on Wuhanese people's mobility practices
- As a conclusion: prospects for planning

CHINESE CELLULAR URBANISM

Imperial Lifang system: 2-tier system





WUHAN

武汉

Beijing
Tangshan
Tianjin
Shijiazhuang

Chengdu
Chongqing

Nanjing
Shanghai
Hangzhou

Guangzhou
Shenzhen
Hongkong
Macau

CHINESE CELLULAR URBANISM

The work-unit system – 1960-1970

Wuhan Steelwork Company
Neighbourhood planning



CHINESE CELLULAR URBANISM

The economic zone system – contemporary period

Dongfeng Company
Neighbourhood planning



08/12/2016

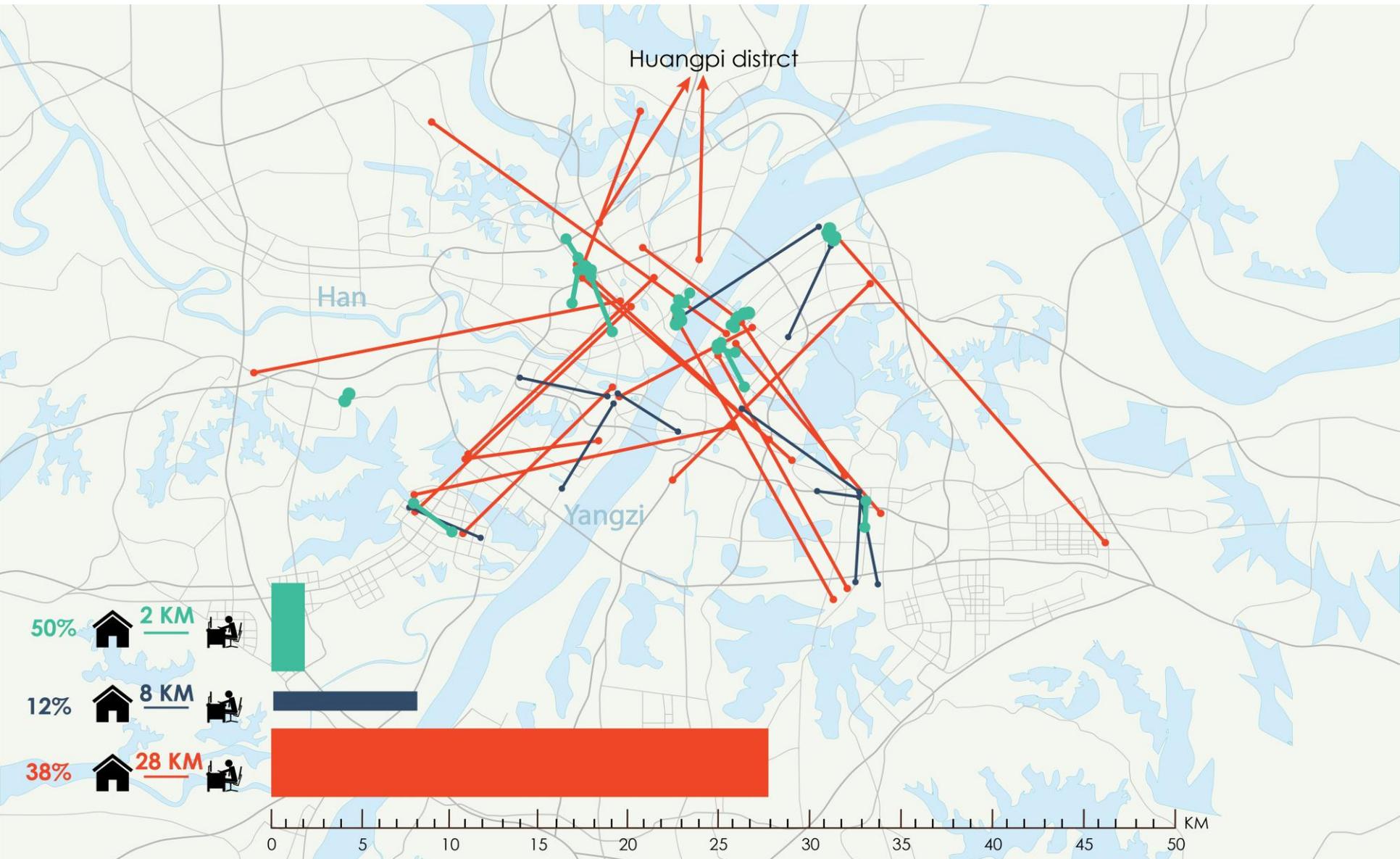
0 5 Km

CHINESE CELLULAR URBANISM

What has changed ?

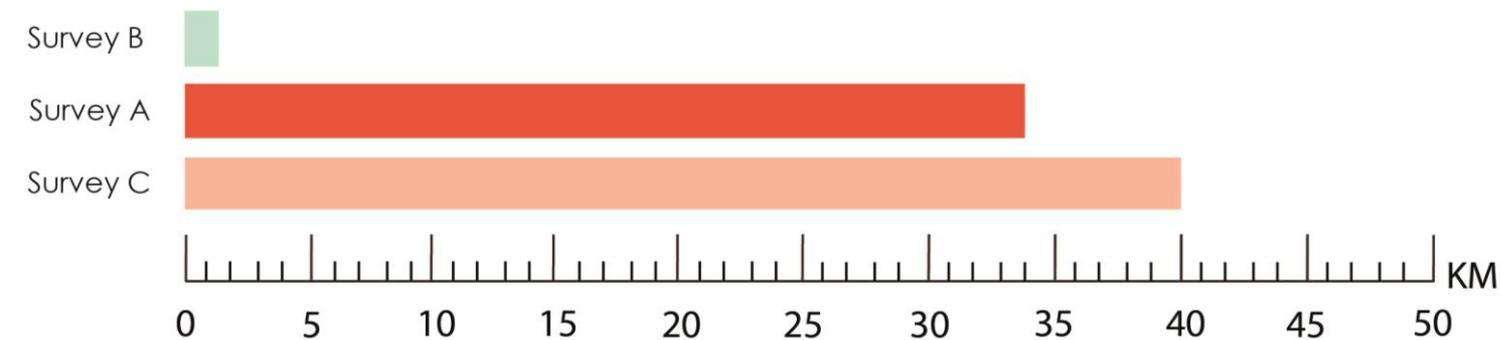
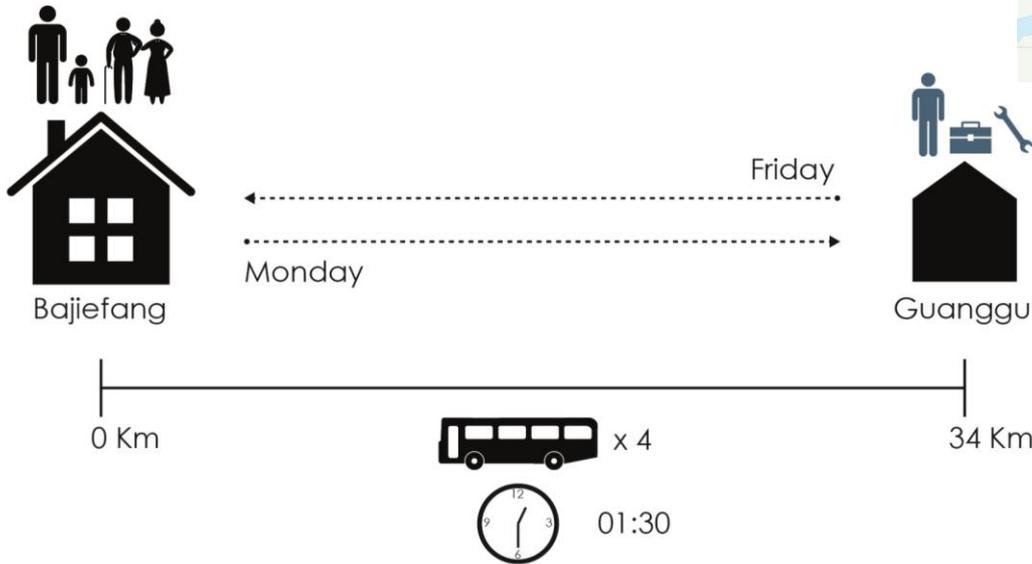
CHINESE CELLULAR URBANISM

Resilience of short-distance and emergence of long-distance



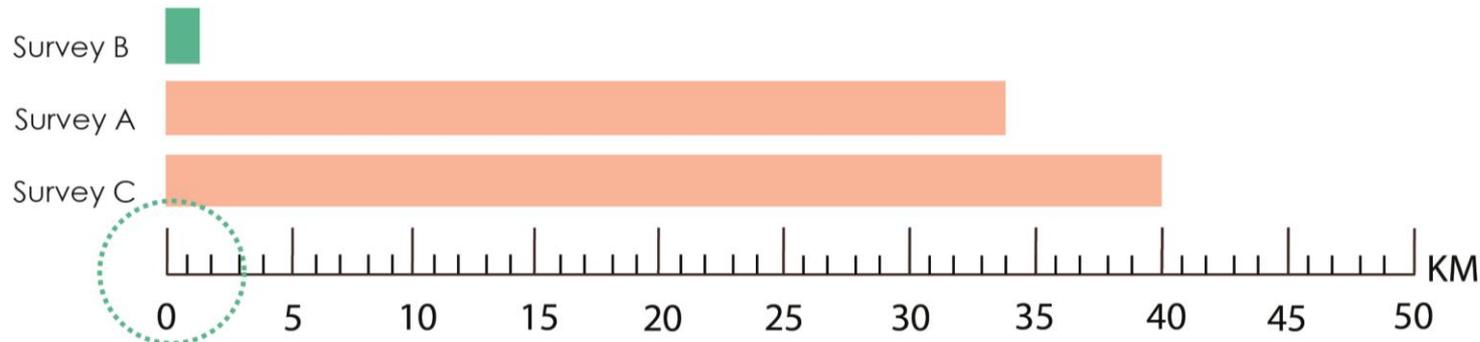
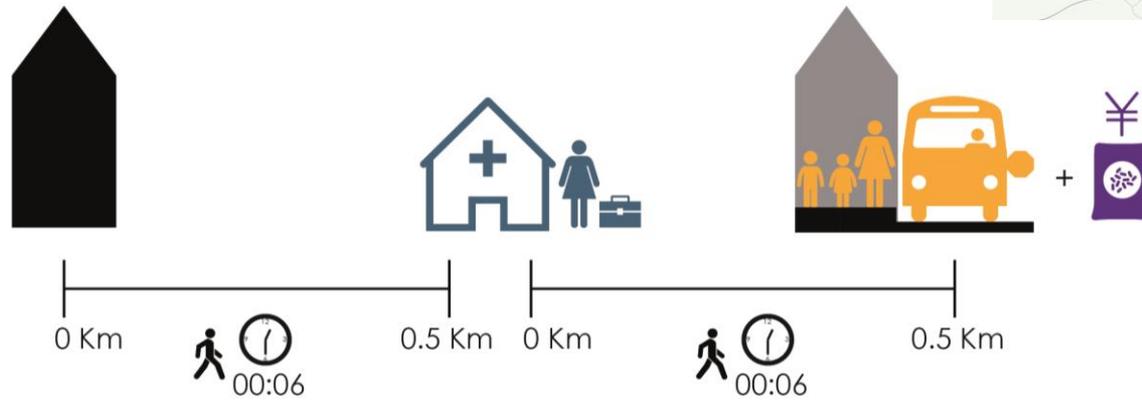
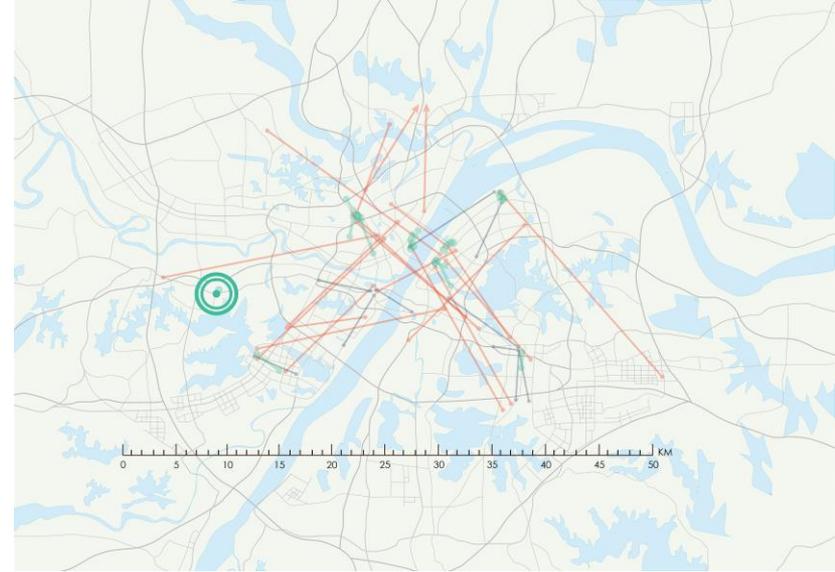
SURVEY A

Take advantage of the urban transition



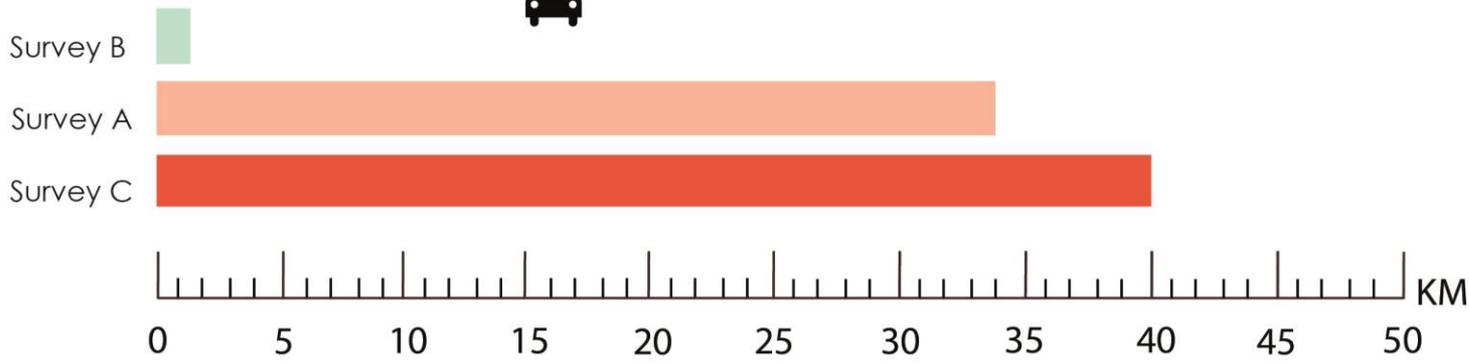
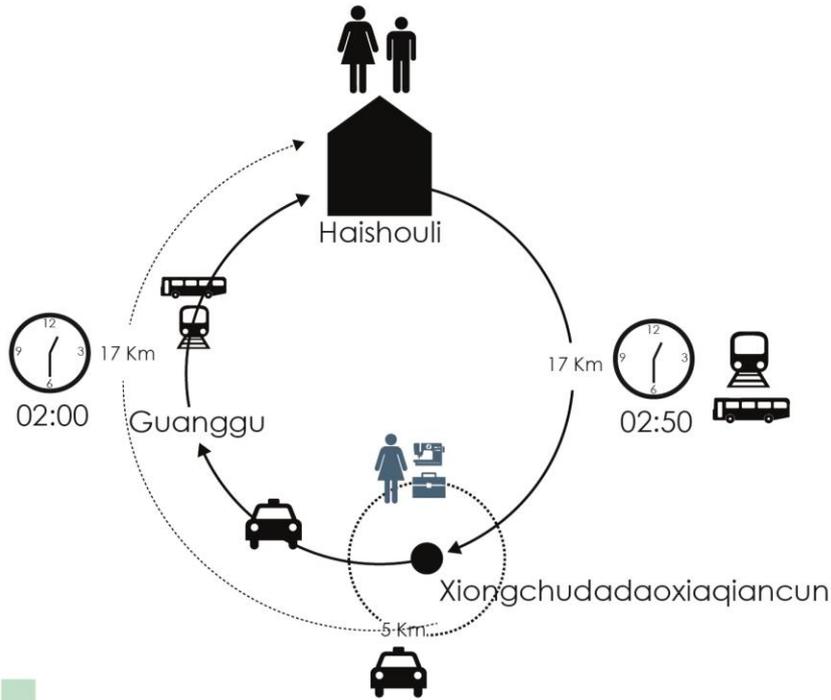
SURVEY B

Living around the residential unit



SURVEY C

Struggling with the city

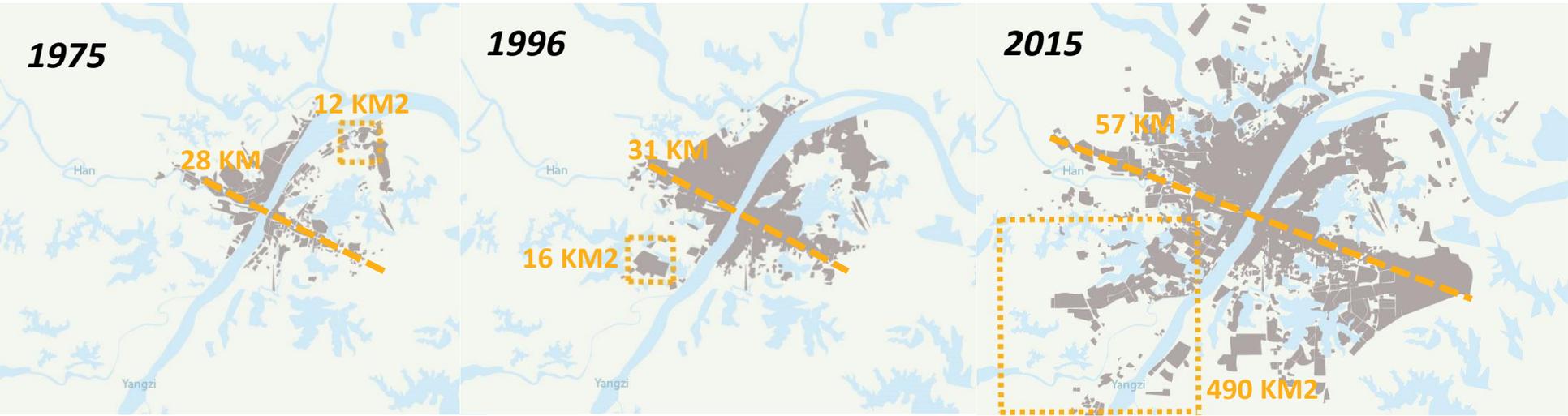


From mobility to accessibility: reinventing Chinese cellular urbanism

- The resilience of proximity thorough Wuhan development
- *The rescaling of city, neighbourhoods and residential units*
- The effect of city rescaling on Wuhanese people's mobility practices
- As a conclusion: prospects for planning

CHINESE CELLULAR URBANISM

City, neighbourhood and residential units rescaling



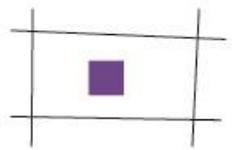
CHINESE CELLULAR URBANISM

City, neighbourhood and residential units rescaling

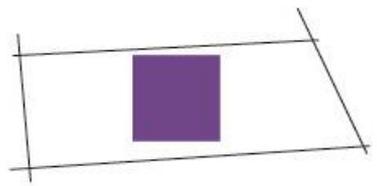
Activities in residential units



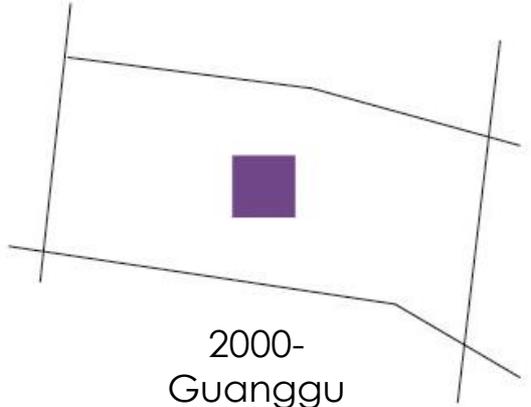
Commercial density



1950-1960
Qingshan



1980-1990
Hankou

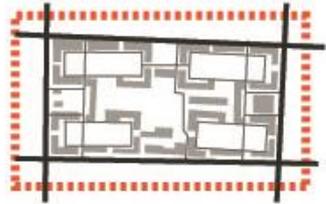


2000-
Guanggu

CHINESE CELLULAR URBANISM

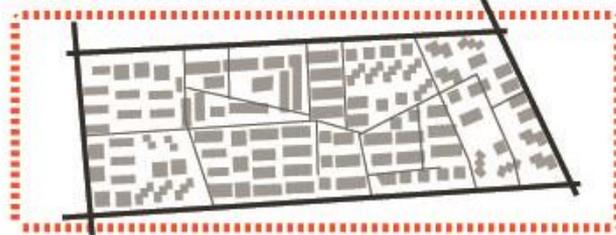
City, neighbourhood and residential units rescaling

8 ha



1950-1960
Qingshan

20 ha



1980-1990
Hankou

46 ha

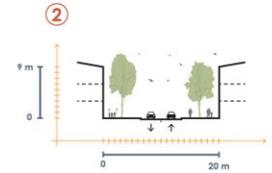
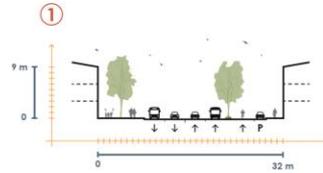
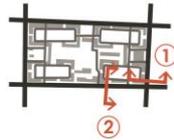


2000-
Guanggu

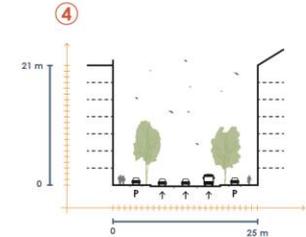
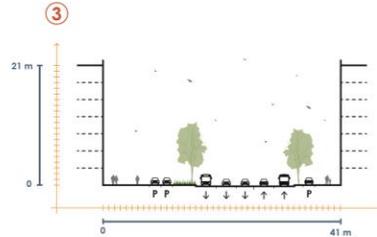
CHINESE CELLULAR URBANISM

City, neighbourhood and residential units rescaling

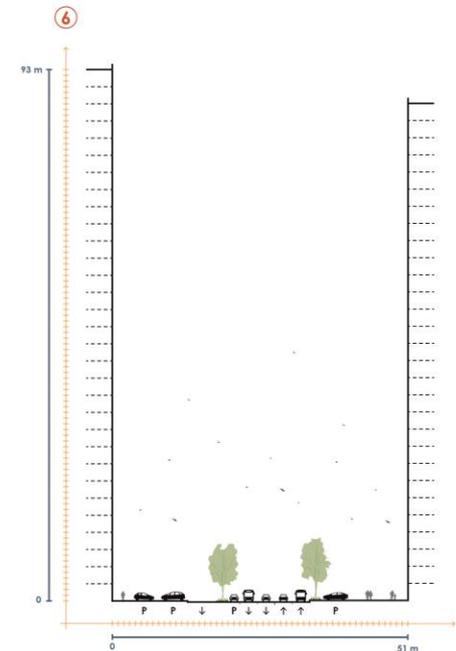
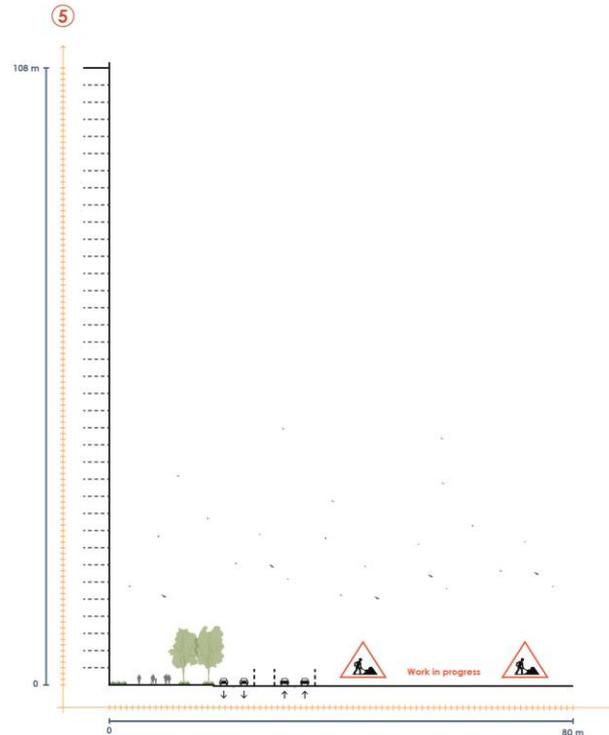
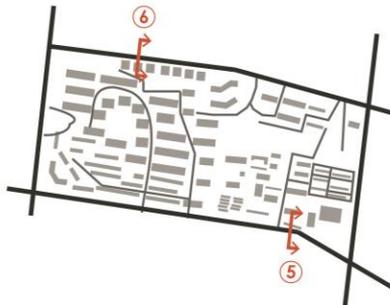
1950-1960
Qingshan



1980-1990
Hankou



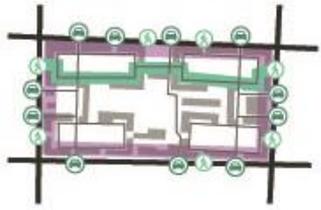
2000-
Guanggu



CHINESE CELLULAR URBANISM

City, neighbourhood and residential units rescaling

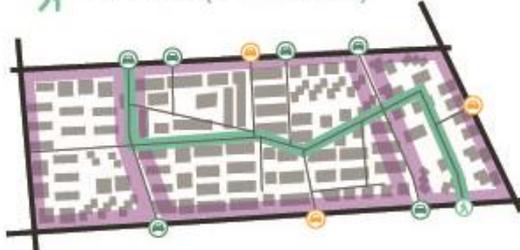
🚶 = 400 m (5 minutes)



8 🚶 11 🚗 0 🚲 0

1950-1960
Qingshan

🚶 = 700 m (8 minutes)



2 🚶 6 🚗 2 🚲

1980-1990
Hankou

🚶 = 1 km (15 minutes)



0 🚶 0 🚗 2 🚲

2000-
Guanggu



CHINESE CELLULAR URBANISM

- *What has changed ?*
- **...Super-sized city for same-sized human !**

From mobility to accessibility: reinventing Chinese cellular urbanism

- The resilience of proximity thorough Wuhan development
- The rescaling of city, neighbourhoods and residential units
- *The effect of city rescaling on Wuhanese people's mobility practices*
- As a conclusion: prospects for planning

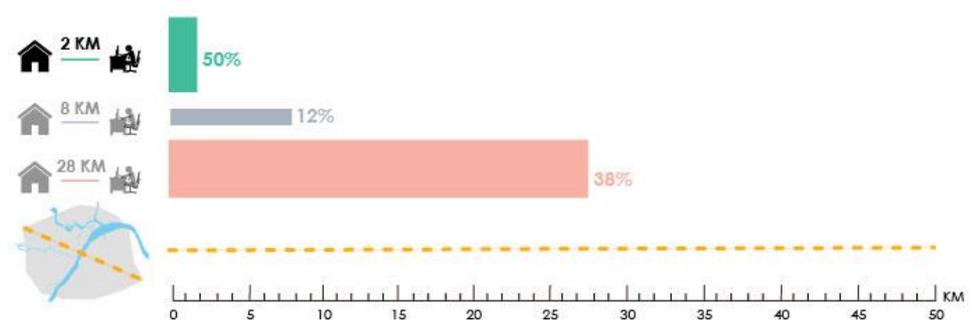
CONSTRAINED MOBILITY

Minimizing the number of journeys

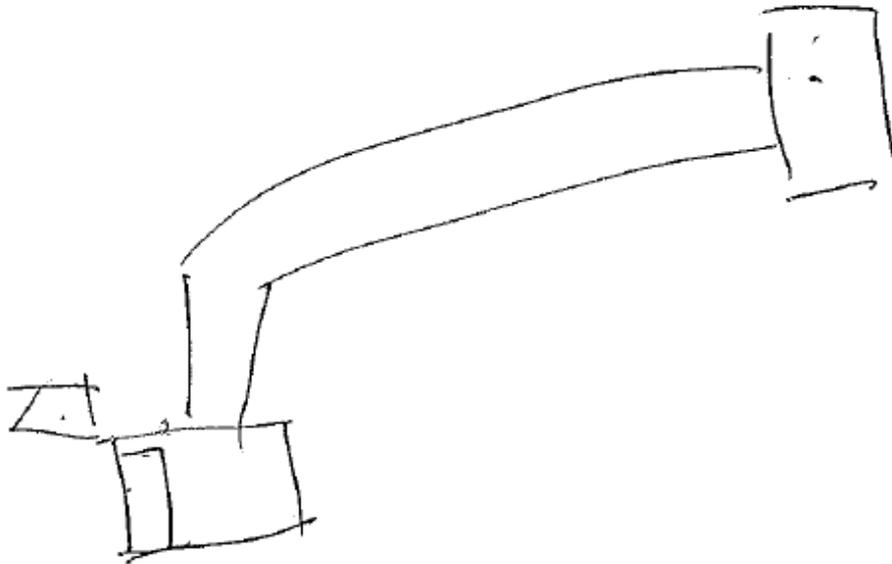
- **3,2** trips a day (vs. 3,7 in Nantes, France)
- **A third** of surveyed people didn't go out the day before the survey
- First daily trip **> 30 min = less than 3 trips** a day

CONSTRAINED MOBILITY

The « tunnel effect » – survey D



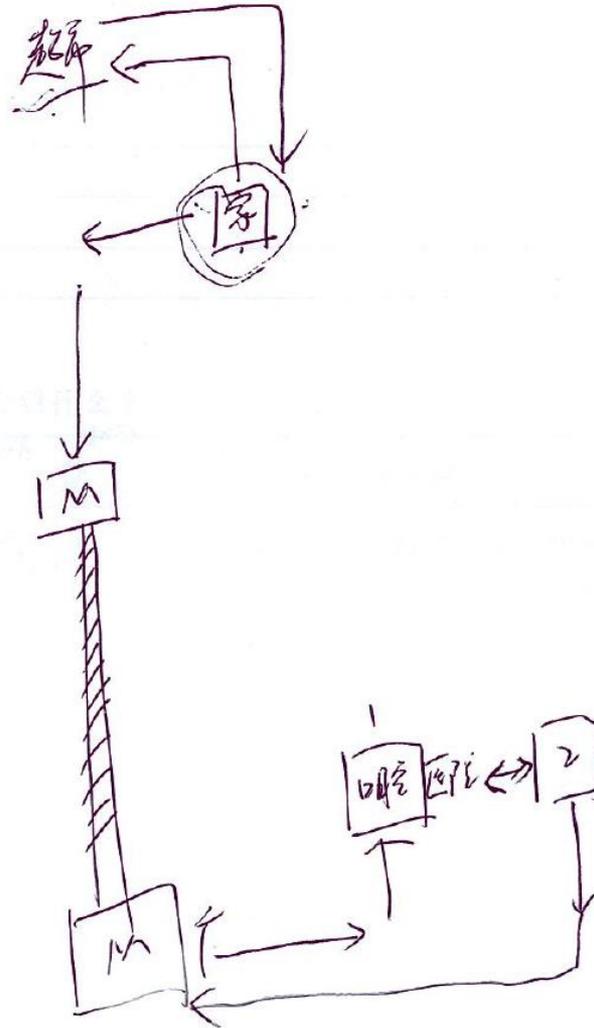
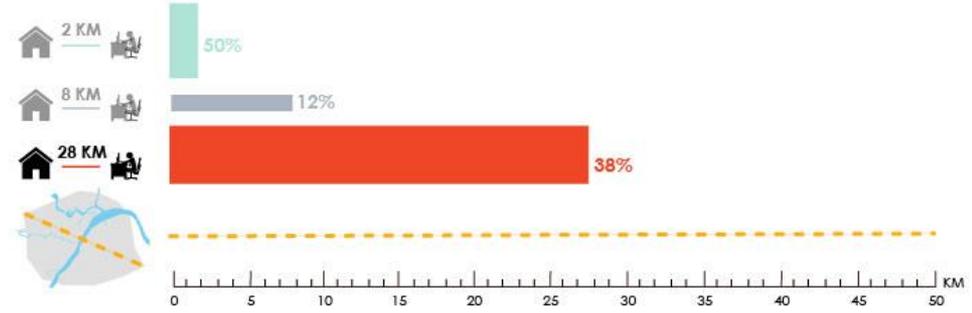
请绘制昨日出行路线



CONSTRAINED MOBILITY

The « tunnel effect » – Survey E

请绘制昨日出行路线

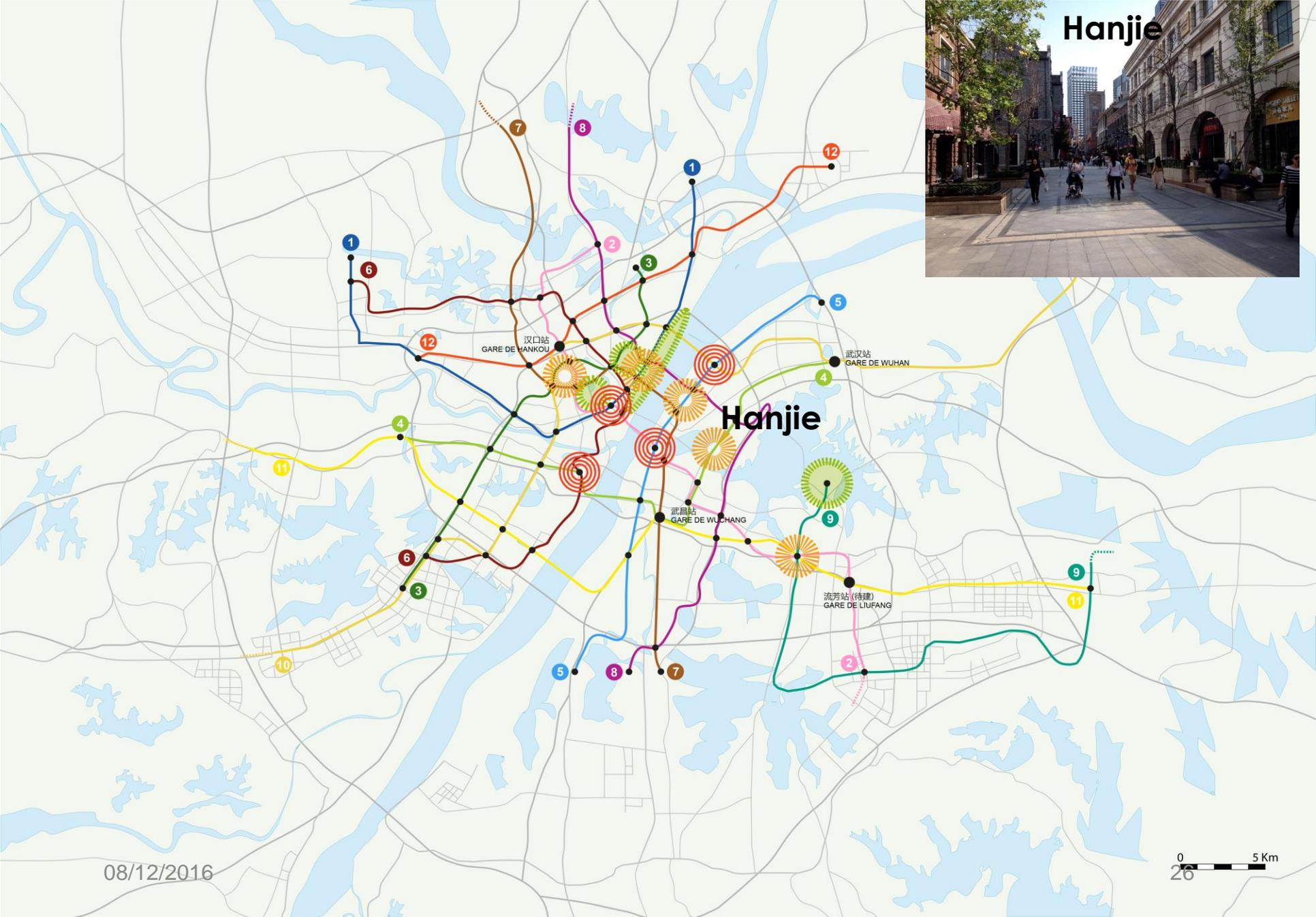


From mobility to accessibility: reinventing Chinese cellular urbanism

- The resilience of proximity thorough Wuhan development
- The rescaling of city, neighbourhoods and residential units
- The effect of city rescaling on Wuhanese people's mobility practices
- *As a conclusion: prospects for planning*



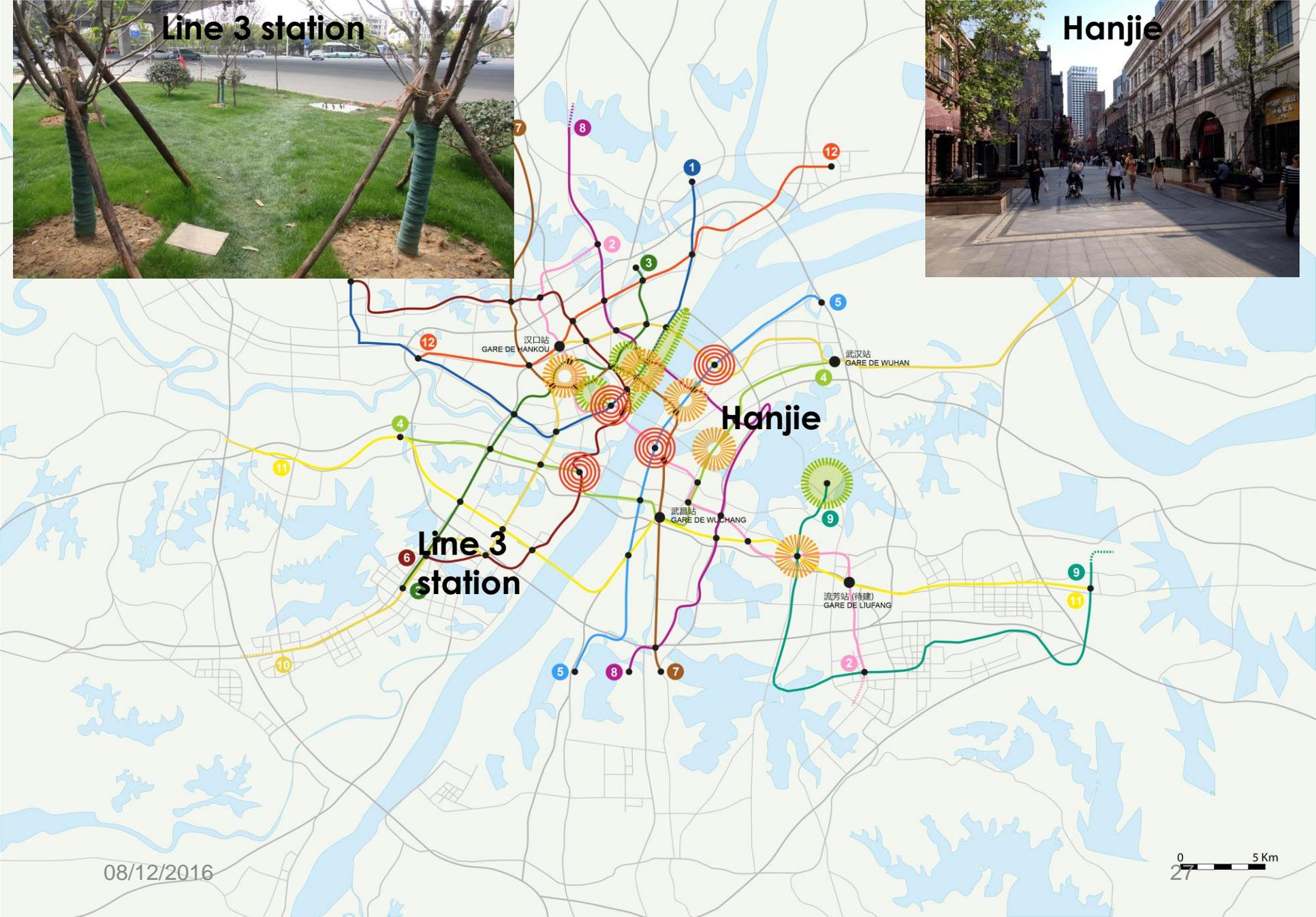
Hanjie



Line 3 station

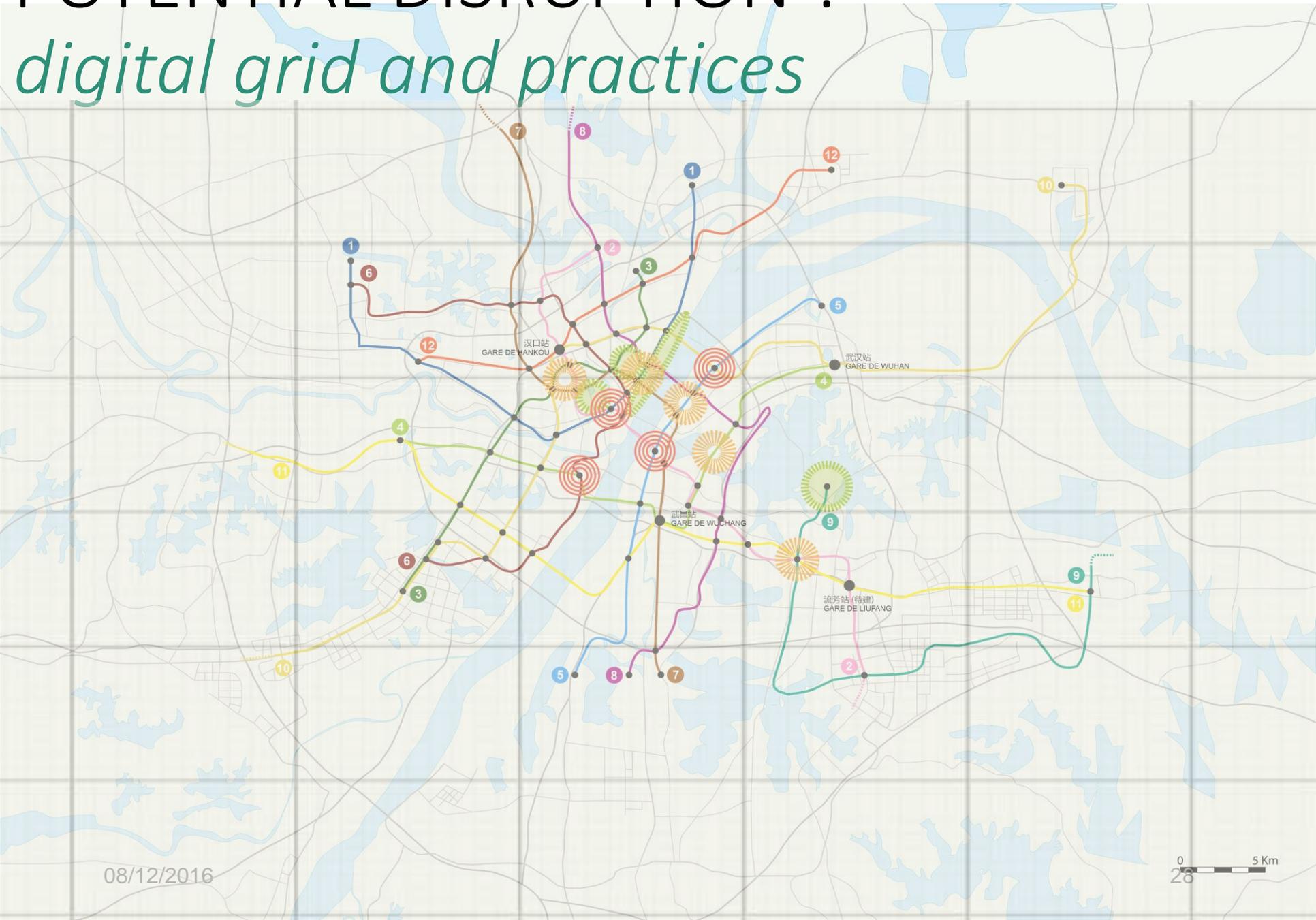


Hanjie



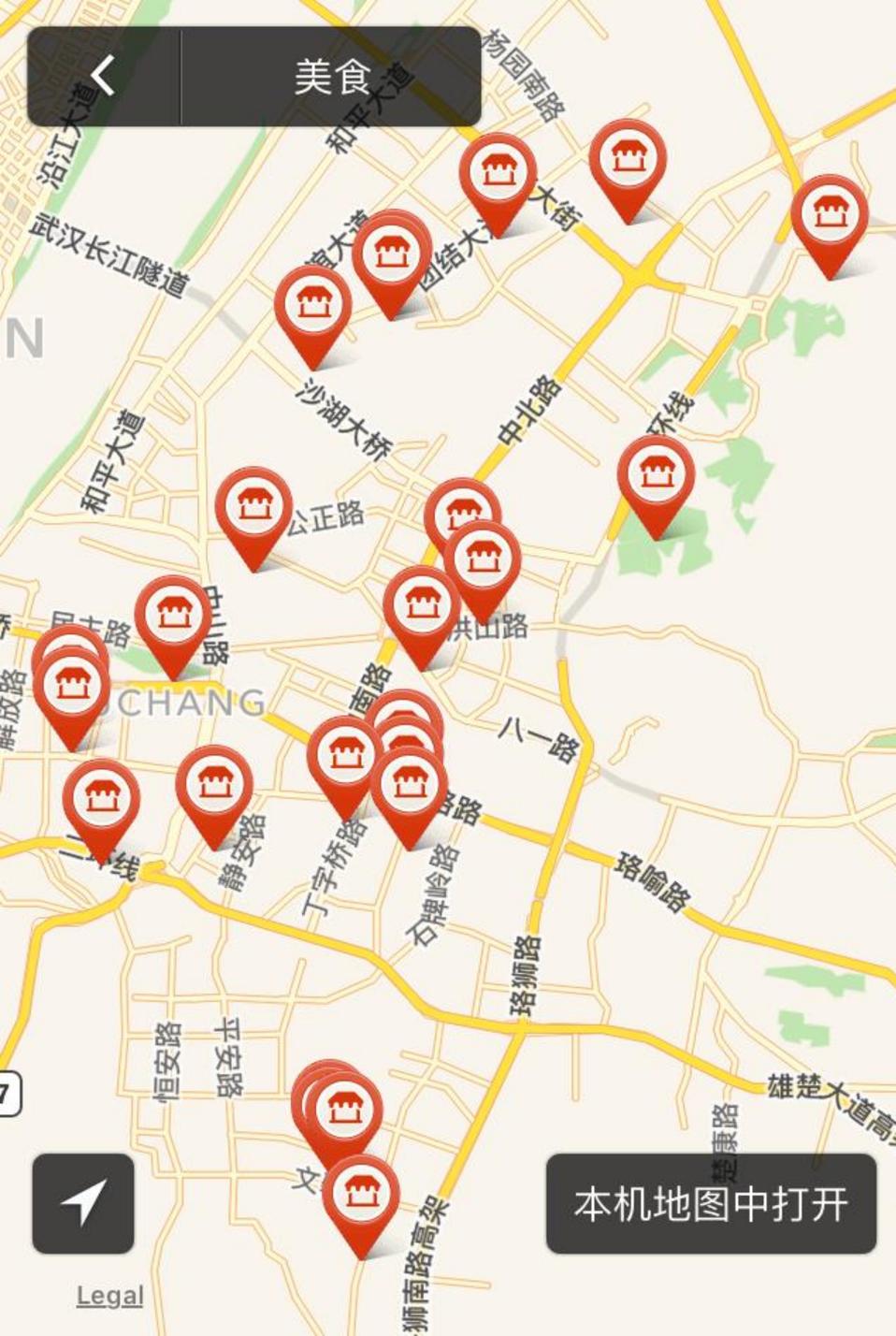
POTENTIAL DISRUPTION ?

digital grid and practices



08/12/2016

0 5 Km
28



武汉头条

旅游 据说这五个水乡才是国内最美的...

旅游 行咖人物 | 她曾单车闯新藏, 也...

新注册专享

注册送 专享豪礼

领7~20元 外卖红包

¥20

0元霸王餐
会员免单福利
0元品质大餐

麻辣嗨吃
辣就5折起
重口味吃到爽

THANKS ! 谢谢 !

PARIS
Maison Mozart, 8 rue du Sentier
75002 Paris
+33 1 55 04 13 00

LYON
9 rue de la République 69001 Lyon
+33 4 78 63 77 00

SHANGHAI
Room 1508, no.25, Mao Ming Nan Lu
200020 Shanghai
+86 21 63 20 28 22

www.arte-charpentier.com



architecture | architecture intérieure | urbanisme | paysage

08/12/2016

