NEXTSTATION

MARRAKECH 2015

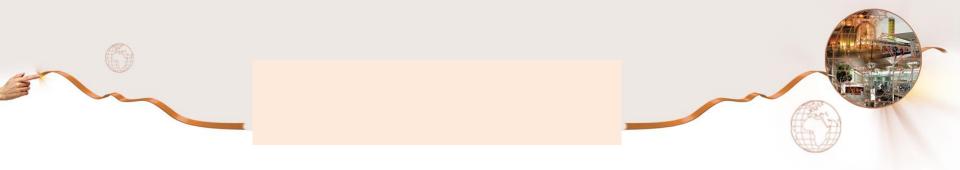








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Two urban integration patterns around the High-speed railway stations in China

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- 2-A-Territories





- Part 1 Introduction
- Part 2 Integration in the urban periphery
- Part 3 Integration in the urban center
- Part 4 Actors involved in the process
- Part 5 Conclusion



Introduction

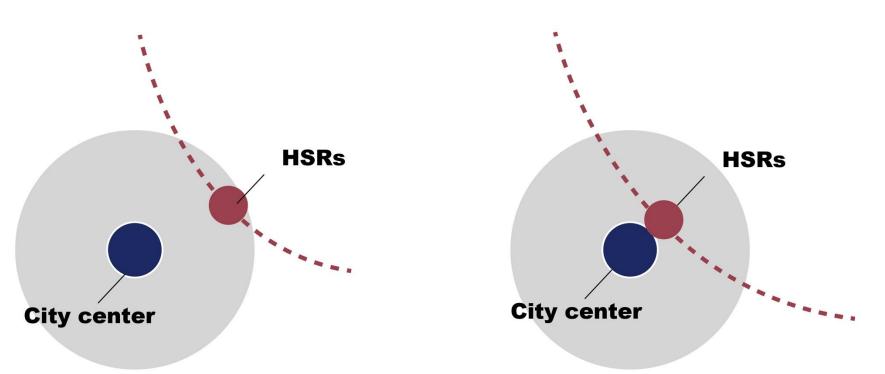
- "Great leap forward" high-speed railway (HSR) development in China
 - Network development
 - "4 Vertical, 4 Horizontal" trunk lines and other extensional lines, 16,000 km in total until 2020
 - Station construction
 - Until 2012, 804 stations had been newly built
- Research objectives & methods
 - Two urban integration strategies around HSR station areas; case-based study



Defining two patterns

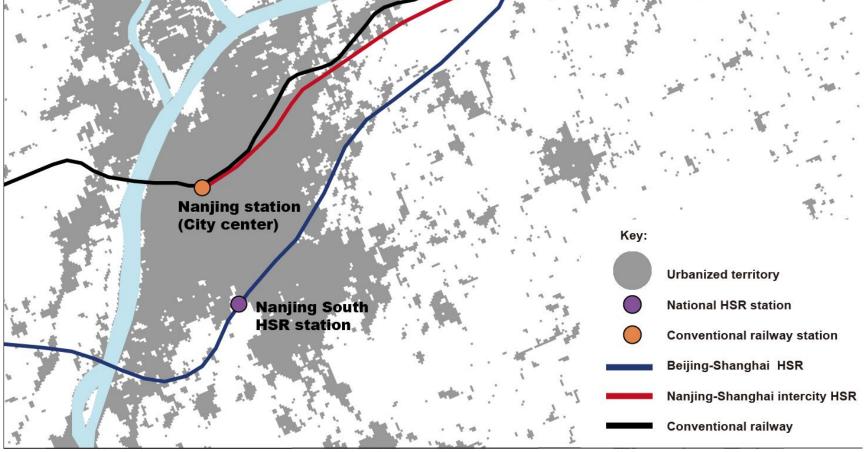
Type 1 HSR station located in the urban periphery











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Aerial view



Nanjing South Station CBD Total planning area: 60.9 km2

Land use status

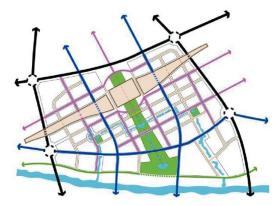




Business / financial services, commercial fatalities and luxurious real estate

Spatial structure

Road network planning



Express way + elevated ring road

Development intensity

/ low-end commercials



Urban periphery, mostly farmland

Radiation from center to surroundings

Strong axis and rigid symmetry

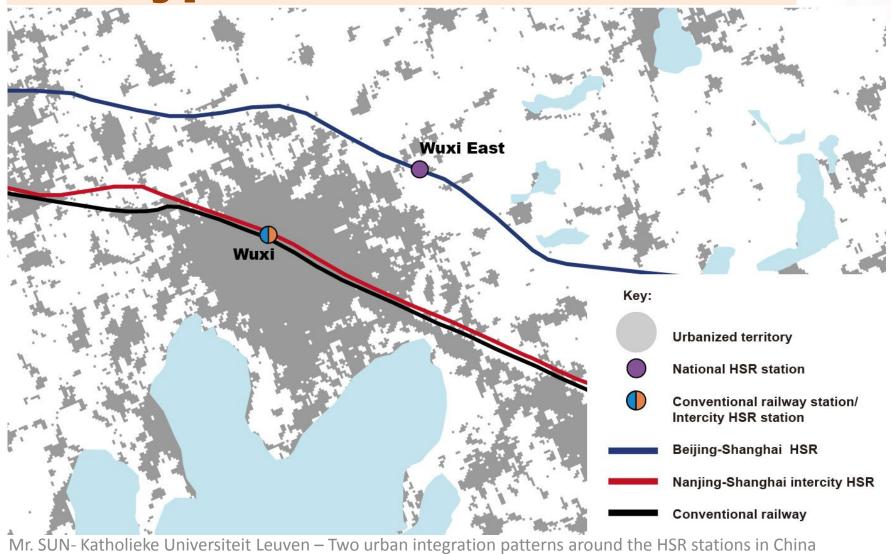


Photo source: Nanjing South Station CBD comprehensive planning report, ATKINS ltd., 2007.

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Type 2. Wuxi Central





Coach station



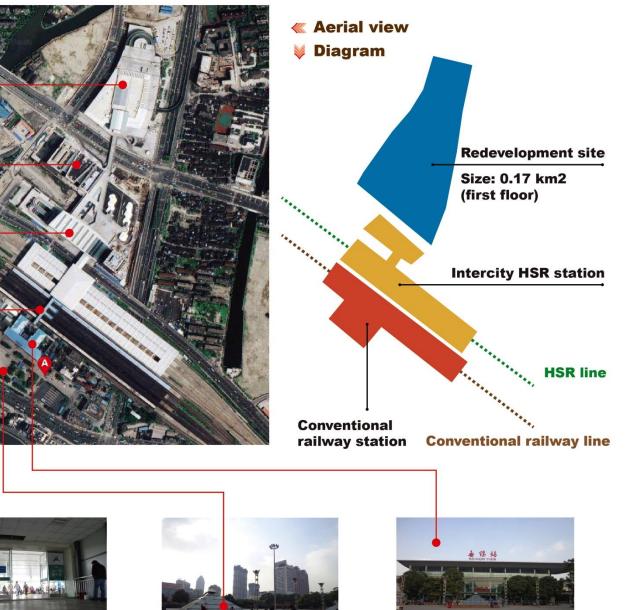
Office/commercial complex



Intercity HSR station



Conventional station square Intercity HSR station Passenger pathway Mr. SUN- Katholieke Universiteit Leuven – Two urban integration patterns around the HSR stations in China



Conventional station



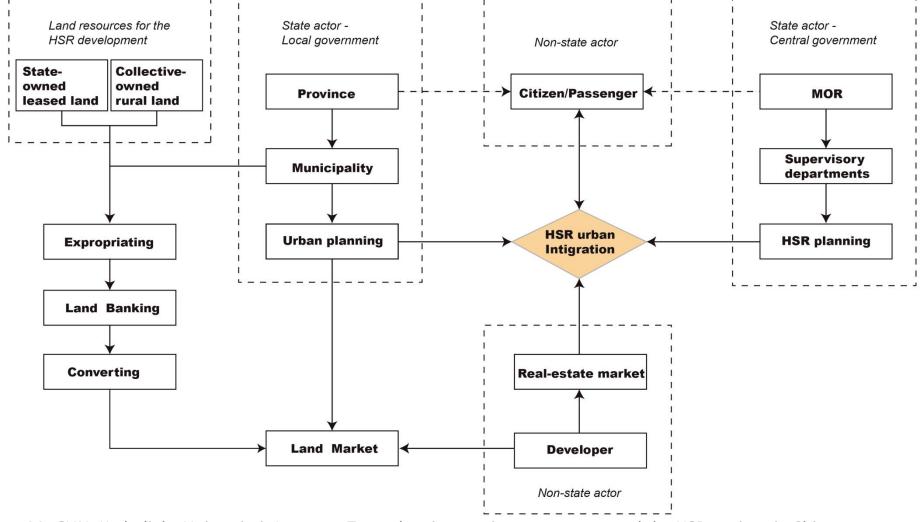


Key characteristics

- Type 1
 - Peripheral location; huge volume of the planned and reserved land; rural land enclosure; monumental spatial structure.
- Type 2
 - Central location; small volume of program; renewal of the underdeveloped "back-side" of the conventional railway station.



Actors involved



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Conclusion

- By holding the critical resource- land, the local governments become true market actors in the HSR urban development progress.
- For the periphery location type, local governments tend to plan the HSR new districts as large as possible in order to push urbanization process, attract investment and more importantly, gain the land revenue.
- For the central location type, the huge potential compensation fees make local governments hesitate to take any aggressive strategies but more realistic, transport-oriented ways to do the urban renewal.



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