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## Spatio-temporal Urban Social Landscape Transformation in Pre-new-urbanization Era of Tianjin, China

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### Introduction

Tianjin has seen dramatic changes in its social landscape since China's economic reforms of 1978. Given this context, this study aims at understanding the different urban socio-spatial patterns of Tianjin and their mechanisms in three distinctive economic contexts by adapting both statistical and spatial approaches.

### Methodology

- Tianjin's Year Books 1980 – 2013.
- The 1990, 2000, and 2010 Tianjin censuses at the neighbourhood level.
- Research workflow:

Tianjin Municipality

Census data at neighbourhood level (1990, 2000, 2010)

Factor Analysis

Social dimensions

Statistical Analysis

Tianjin's Social Landscape (1990, 2000, 2010)

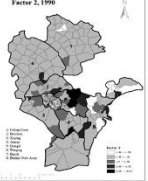
Ideal Model

Multiple Regression

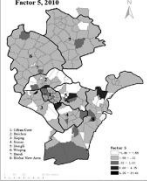
Social dimensions spatial distribution

Spatial Analysis

Factor 2, 1990

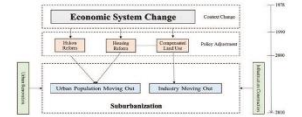


Factor 5, 2010



### Discussions

- A distinctive "dual-core" city
  - In addition to the traditional Urban Core located in the center of the city, the Binhai New Area (BNA) in the southeast is forming the second core of Tianjin.
- An asymmetric suburbanization process

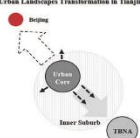


- From under the shadows of Beijing into the limelight
  - Beijing had a "shadow casting" effect on Tianjin's development (1990 – 2000).
  - Tianjin has gradually recovered from under Beijing's shadow. (2000 – 2010).

### Conclusion

- The urban social landscape of Tianjin can be characterized as "one axis, two nuclei" urban morphology.
- Urban core's expansion and population movements in Tianjin is asymmetric.
- Tianjin is now taking advantage of its close connectivity with Beijing to flourish.

Urban Landscapes Transformation in Tianjin



### References

Liu, Z.W. & Cao, H. (2017). Spatio-temporal urban social landscape transformation in pre-new-urbanization era of Tianjin, China. *Environment and Planning B: Urban Analytics and City Science*, 44(3): 398-424.

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