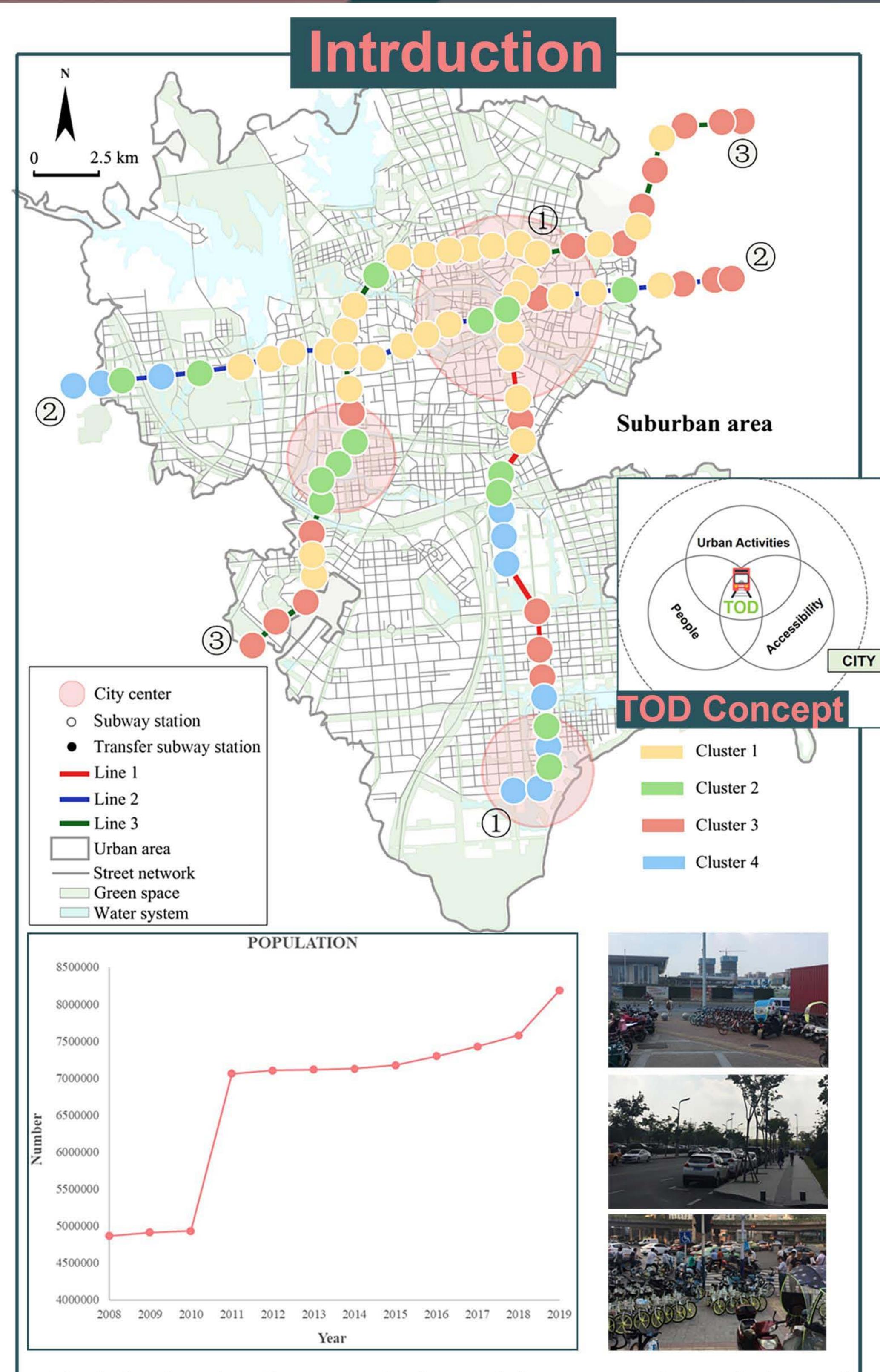
Integrating Land-use and Transit Network as a Strategy to Reduce the Negative Impact of Rapid Urbanization: the Case Study of Hefei TOD Network

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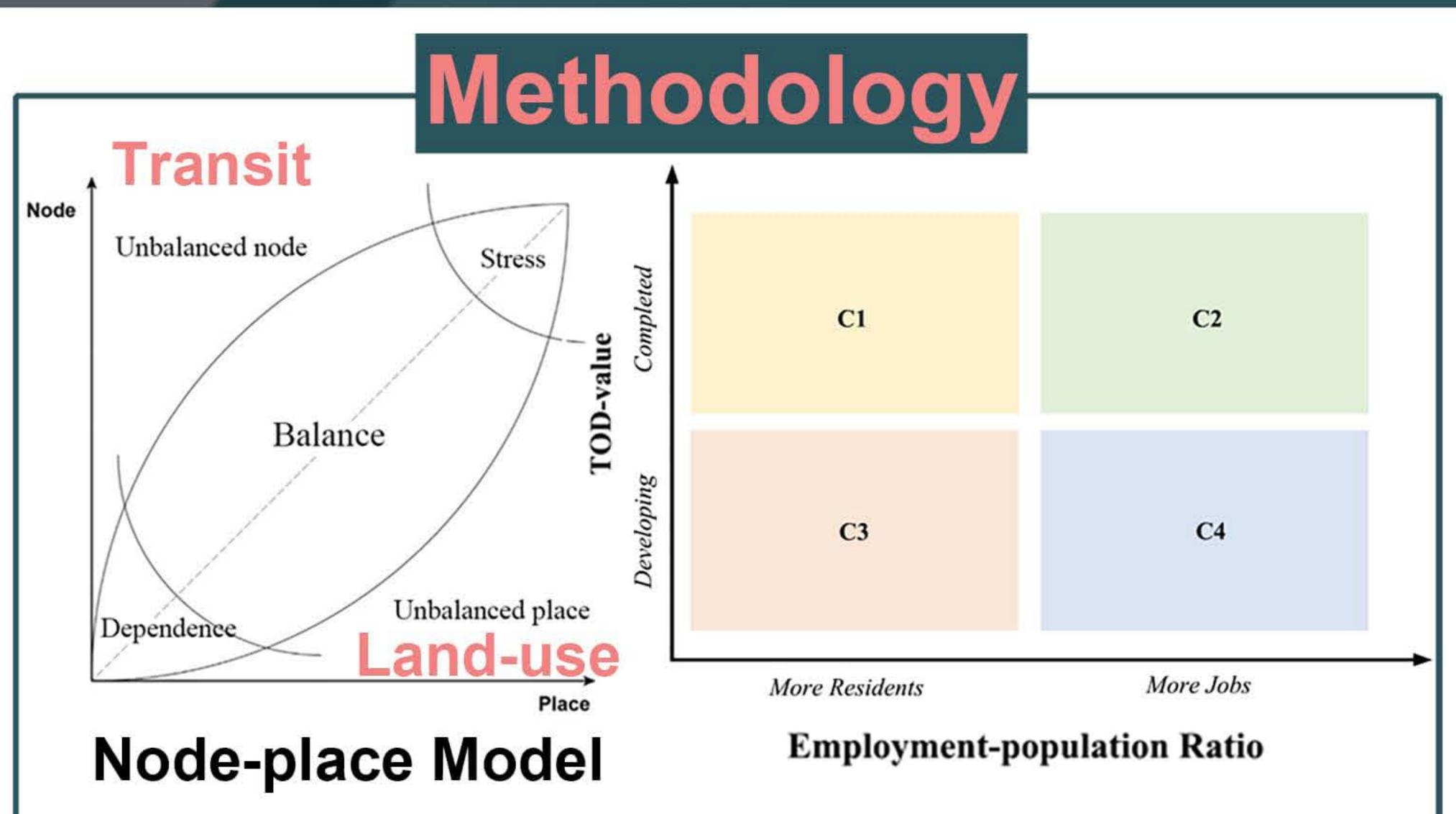
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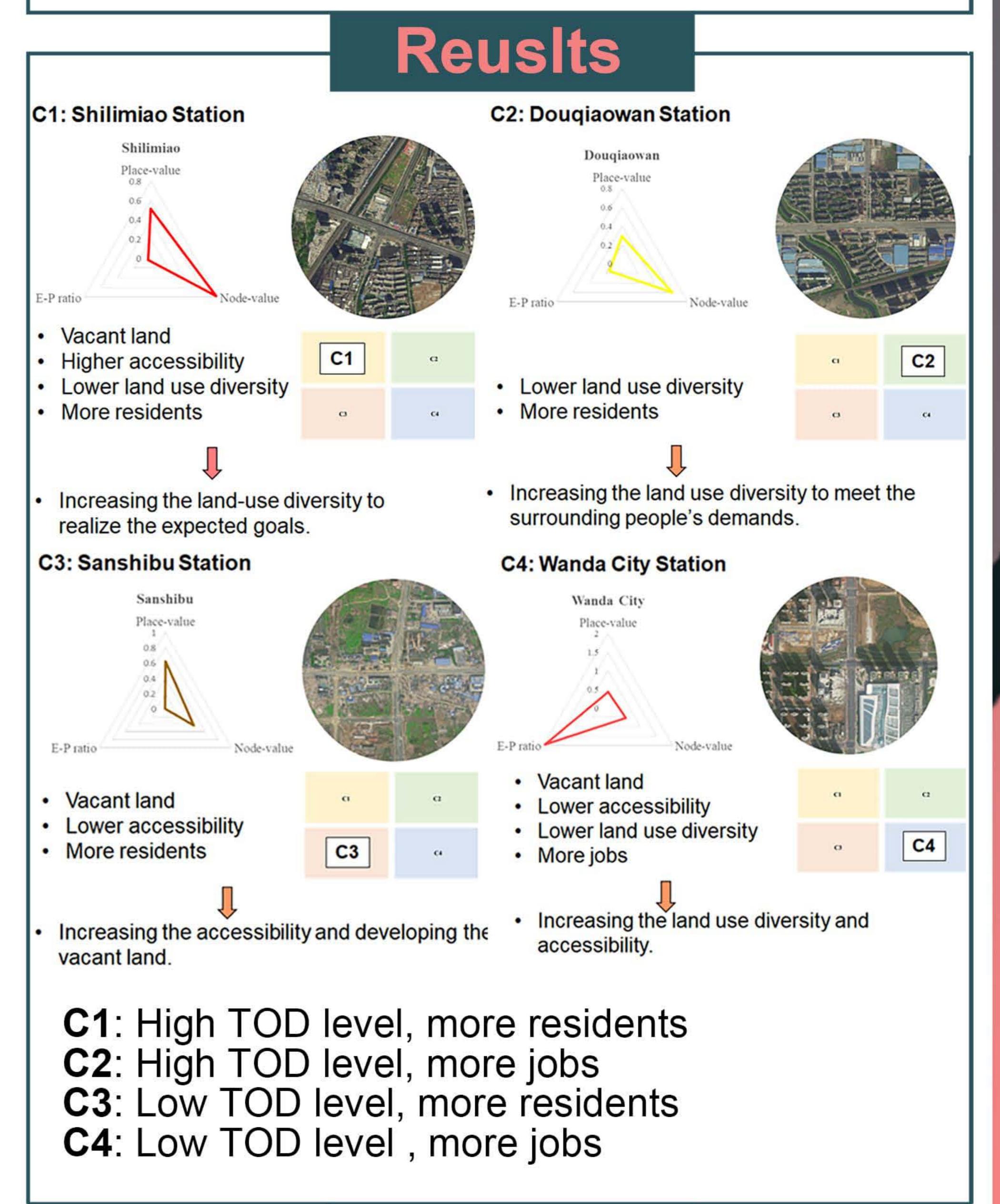
Hefei city is the capital and largest city of Anhui Province in China with the city area of 11,434.25 km². Local government encouraged to develop the rail transit system with Transit-oriented Development (TOD) concept to reduce the transport pressure and environmental pollution since 2017. However, transit network and surrounding areas always were developed separately, which failed to maximize benefits of TOD network.

Objective

Developing a method to integrate the land-use and transit network to reduce the negative impact of rapid urbanization.



This research can obtain a general TOD value (node+place) based on the node-place model. Then, comparing the TOD value with population composition at each TOD project.



Conclusion

A model was proposed to integrate land-use and transit network. The model also assessed the interaction between needs of subway users and TODs.