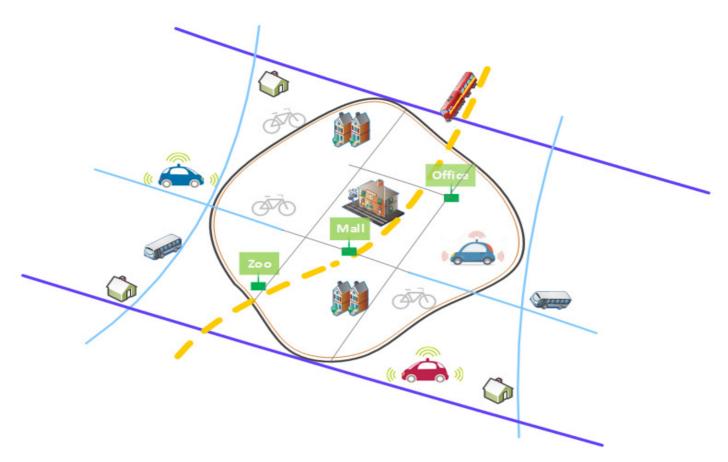


MAAT

Urban growth is one of the biggest challenges for humankind in the 21st century. Rapid urbanization has generated a dramatically high demand in the cities for housing, transportation and employment relative to the lagging supply. While this phenomenon has led to huge opportunities for economic growth, it causes widespread side effects, such as high housing prices, excessive energy-dependency, congestion, safety, unemployment, social exclusion, and environmental degradation. Given the scarcities of land resources, fossil fuel reserves, and other raw materials, the living expenses in cities have constantly risen over the last century and tend to increase despite technological innovations. The negative externalities are detrimental to equal access to basic services. Unaffordability and disparities stand out for the low-income and socially disadvantaged groups.



Sustainable and livable area of H+T interactions.

Aim/objective

To address policy initiatives promoting sustainable urban areas, this Sino-European collaborative interdisciplinary project aims to better understand the complex process of urban dynamics and how they create spatial and social disparities by developing integrated decision support tools for multi-faceted valuation and administration of access to housing and transportation (H+T).

Approaches/methods

The suggested approaches combine the state-of-the-art aggregate and disaggregate methods founded on uniform data solutions. The tools involve analyses of (i) individual and household H+T mobility behavior incorporating budget constraints and heterogeneities; (ii) organizational decision-making process incorporating fiscal competitions; and (iii) H+T interactions and coordinated policy outcomes on H+T externalities.

Expected results and impacts

This project will improve our theoretical and empirical understanding of H+T dependencies and how policies work out differently in European and Chinese cities. The integrative model system allows researchers, policymakers, and operators to analyze the H+T interactions from both the demand and supply sides, and ultimately to implement policy and service solutions to improve affordable accessibility.

MAAT - Multi-faceted valuation and administration of access to housing and transportation

Duration: Starting in 2019, ending in 2022 at the latest

Internet: jpi-urbaneurope.eu/project/maat

Contact: Dr. Feixiong Liao E-mail: f.liao@tue.nl Budget: €836,532

Partners: Eindhoven University of Technology - Urban Planning Group, BEIHANG UNIVERSITY - SCHOOL OF ECONOMICS AND MANAGEMENT, Huazhong University of Science and Technology, China - School of Management, Ecole Normale Supérieure Paris-Saclay, Beihang University - School of Economics and Management, Université Cergy Pontoise - THEMA, Huazhong University of Science and Technology - School of

Architecture and Urban Planning

Involved countries

- China
- France
- Netherlands

The Sustainable and Liveable Cities and Urban Areas call

The pilot call Sustainable and Liveable Cities and Urban Areas organized by JPI Urban Europe and the National Natural Science Foundation of China (NSFC), inviting interdisciplinary Sino-European consortia opened on January 31st, 2018.

