

# U-PASS

Achieving a sustainable and reliable transport system is among the key challenges that contemporary cities face; in China, in Europe, and beyond. Defining effective strategies to improve the benefits of transport, while limiting its downsides, has proven to be a great challenge, both from a scientific perspective and from a policy viewpoint. But these questions are pressing, given the importance of transport not only in the functioning and spatial growth of cities, but also in its dominant impacts on urban air quality and greenhouse gas emissions. U-PASS proposes to design and analyse innovative service and policy innovations for achieving sustainable urban transportation by studying short-run behavioural impacts through real-life experimental studies, and long-run implications through advanced urban transport modelling approaches. The collaboration between Chinese and European top institutes, combined with applications in both parts of the world, gives a great opportunity for cross-fertilization and comparative study.

## Aim/objective

The project thus aims to offer innovations in the design of new services and policies in urban transport, in the set-up of new types of experiments, and in the development and integration of new types of models. This offers a fertile mixture of societal and scientific innovation, the results of which will be disseminated both in the urban stakeholders and academic worlds.

## Approaches/methods

Our ambition is to provide robust insights, not critically dependent on one methodology or modelling approach. This has led to a project set-up in which we focus on a number of selected innovative services and policies that are relevant both in China and Europe, and study these using different methodological approaches: experiments, conceptual modelling, agent-based modelling, and strategic modelling.

## Expected results and impacts

The overall objective is to develop, implement and evaluate innovative tools, policy measures and strategies for sustainable and efficient urban transport; focusing on both “technology” and “behaviour”. U-PASS thus contributes to achieving more sustainable cities with enhanced climate neutrality and improved liveability, and aims at tackling highly relevant urban challenges that are shared by many cities across China, Europe and beyond.

### U-PASS - Urban Public Administration and ServiceS innovation for Innovative Urban Mobility Management and Policy

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

**Internet:** [jpi-urbaneurope.eu/project/u-pass](http://jpi-urbaneurope.eu/project/u-pass)

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**Partners:** VU University Amsterdam – Faculty of Economics and Business Administration, University of Leeds – Institute for Transport Studies, Beijing Jiatong University (BJTU), Zhejiang University (ZJU), Beijing Transport Research Institute (BTI).

### Involved countries

- China
- Netherlands
- The United Kingdom

## 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.

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