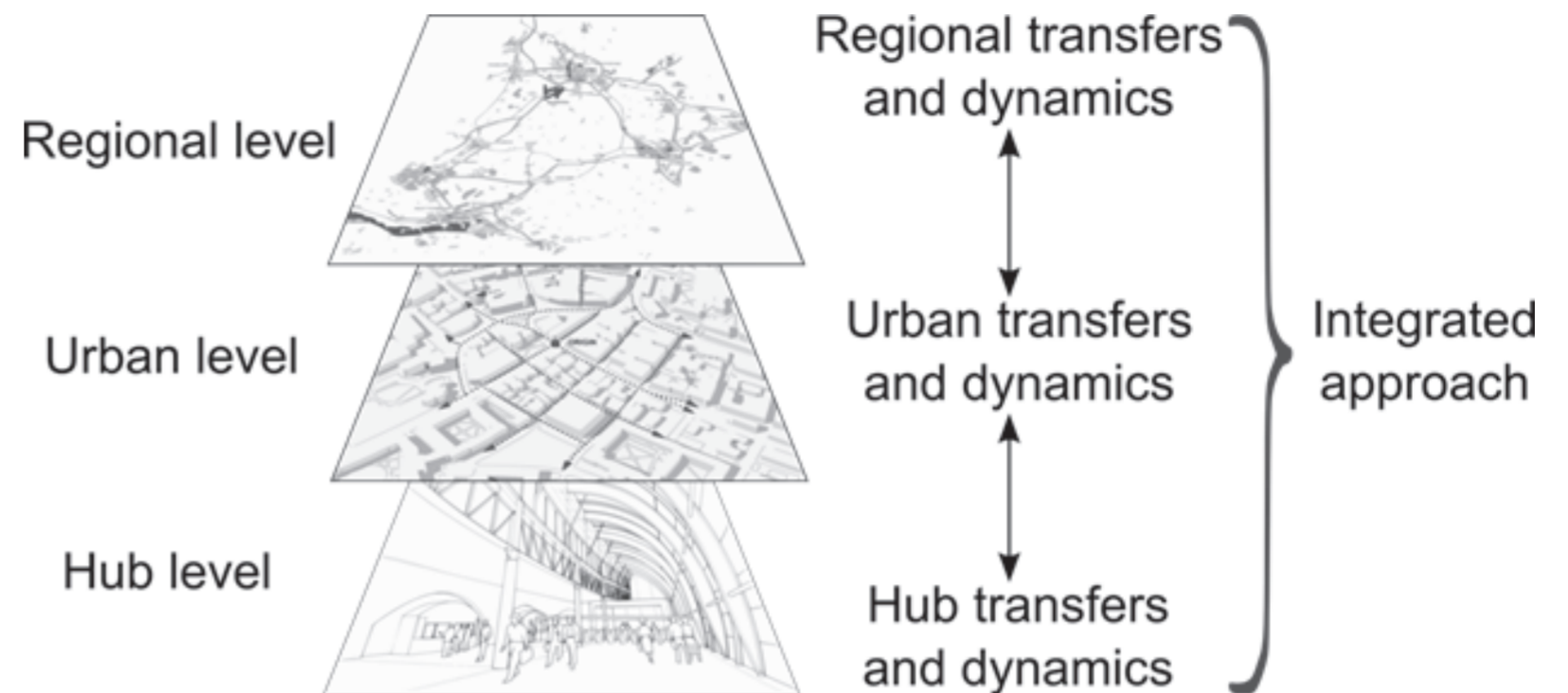


TRANS-FORM

Smart cities and communities rely on efficient, reliable and robust transport systems. This project will contribute to a better understanding of how people move in different levels of the public transport network and to offer new techniques to adjust public transport services to respond to actual demand levels. Three case studies in the Netherlands, Sweden and Switzerland will measure how travellers transfer within terminals and urban and regional networks, in order to develop methods for predicting passenger flows, quantify the reliability of passenger experience and evaluate strategies for improved coordination between travel modes, especially in case of disturbances.



Aim/objective

- Evolution of traveller flow dynamics across geographical scales
- Traveler-focused tools for measuring and modelling interchanges
- Methods for planning and operating robust services
- Develop, apply, demonstrate and evaluate transfer strategies

Approaches/methods

- Multi-level monitoring, mapping, analyzing and managing urban dynamics in relation to interchanging flows
- Strategies to coordinate transfers by taking into consideration passenger data and deploy short-term predictions of passenger flows

Case studies in

- Lausanne, Switzerland
- The Hague Metropolitan Area, The Netherlands
- Region Blekinge, Sweden

Expected results and impacts

- Novel dynamic traffic management and passenger demand analysis tool
- Passenger-oriented measures of service reliability
- Evaluate strategies to improve the impedance associated with public transport interchanging

TRANS-FORM – smart transfers through unravelling urban form and travel flow dynamics

Duration: 2016-2019

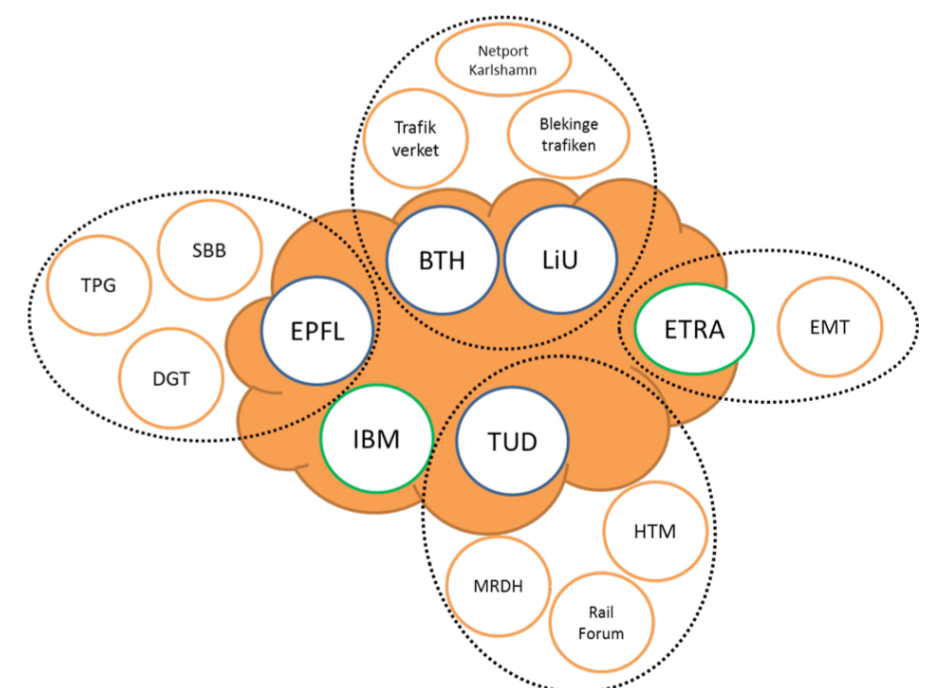
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Budget: 1.295.855 EUR

Partners: Delft University of Technology, Linköping University, École Polytechnique Fédérale de Lausanne, Blekinge Institute of Technology, IBM Research GmbH, ETRA



About JPI Urban Europe

JPI Urban Europe is a transnational research and innovation programme on urban transition. With the ambition to develop and validate new solutions for sustainable and liveable cities, a cooperation platform and programme is provided to connect urban stakeholders, researchers, cities, business and society

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