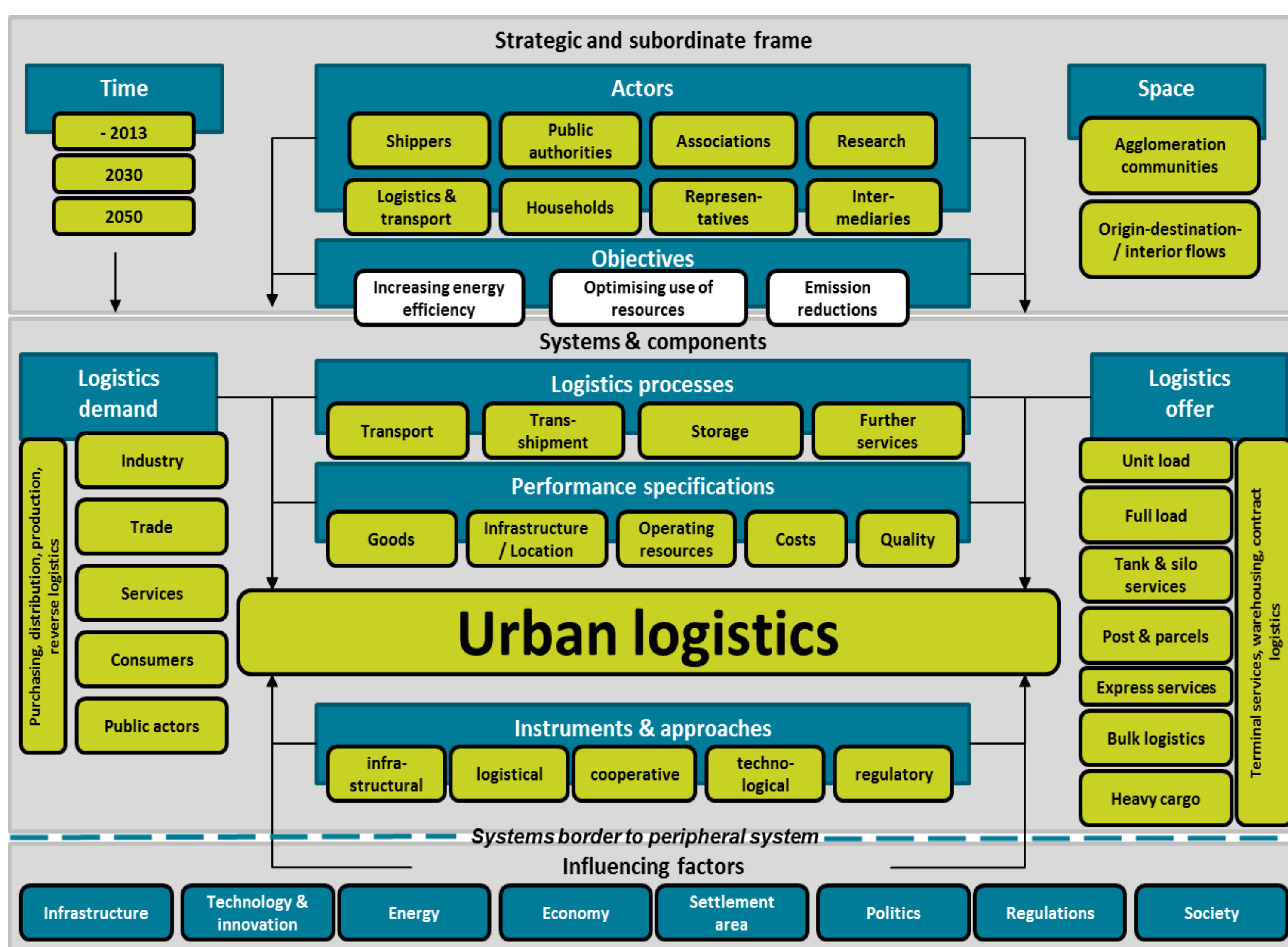


## Overview

### Urban logistics

Urban logistics is essential for the supply of the economy and the population with goods and services; in its significance comparable with power and water supply. Trends, such as e-commerce with home deliveries, reduced storage space, smaller consignments and increased delivery frequency impact and form the urban logistics systems. At the same time logistics activities are continuously displaced from central locations, leading to a logistics sprawl. This results in increasing freight traffic intensity and energy consumption per tonne-kilometre and shipment.

### Urban logistics system

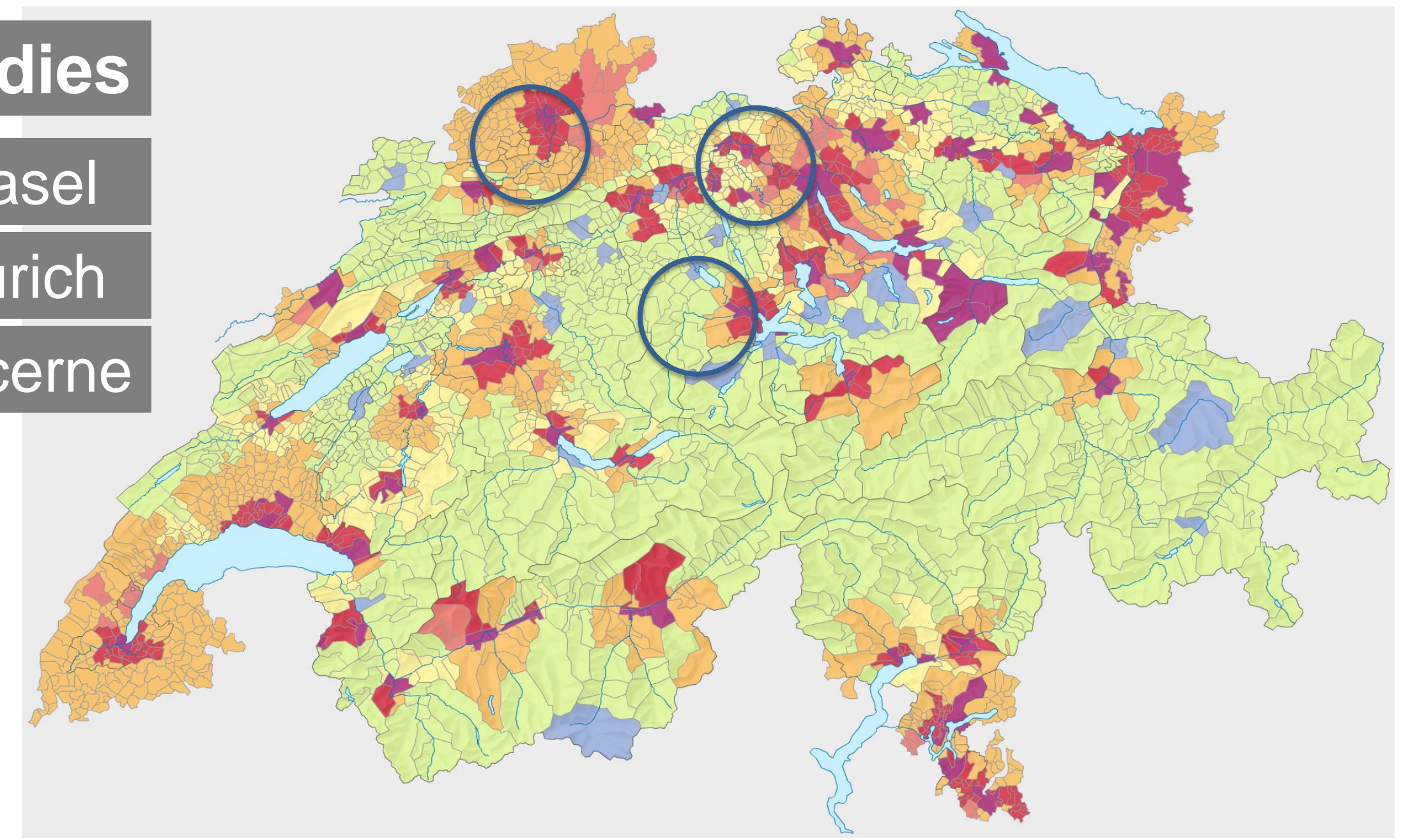


### Research approach

- ✓ Desk research, data analysis and calculation for the current state
- ✓ Scenario forecasting including characteristics, trends and drivers in transport, logistics and urban development
- ✓ Case studies in three cities: Basel, Zurich and Lucerne
- ✓ Backcasting approach: devising an action plan to reach the vision
- ✓ Close cooperation with project partners and cooperating international institutes

### Case studies

Basel  
Zurich  
Lucerne



Source: adapted from atlas.bfs.admin.ch

### Project goals and benefits

- ✓ Profound analysis of urban logistics and its role in the total energy consumption, greenhouse gas emissions and use of non-renewable resources
- ✓ Identification of trends, innovations and drivers in freight transport and logistics
- ✓ Scenario based prognosis for freight transport and logistics in urban areas until 2050
- ✓ Logistics vision 2050 and tailored action plans for the development of energy efficient and CO<sub>2</sub>-free Swiss cities
- ✓ Building a network with private and public stakeholders and scientific institutions

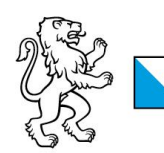
## Partners and Collaboration

### Further financing partners

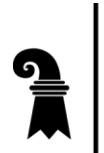


Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Federal Office of Energy  
Federal roads office  
Federal Office of Transport



Canton of Zurich  
Department for Economic Affairs  
Office of Transport



Bau- und Verkehrsdepartement des Kantons Basel-Stadt



Stadt Luzern

### Project partners

Leading Swiss partners involved in transport, industry, logistics, urban development and efficient transport solutions



### International cooperation

Leading international institutes involved in urban logistics



## Energy Turnaround

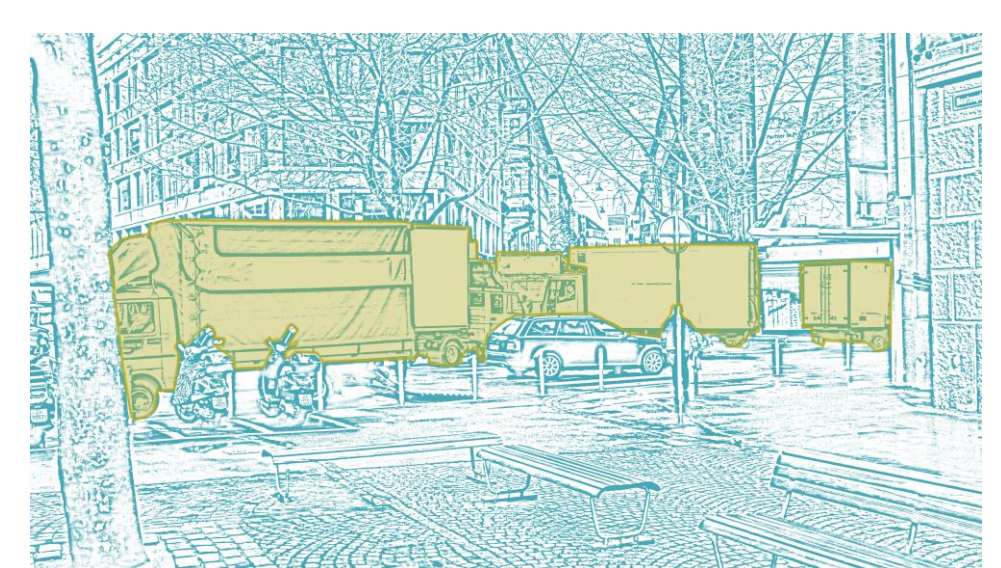
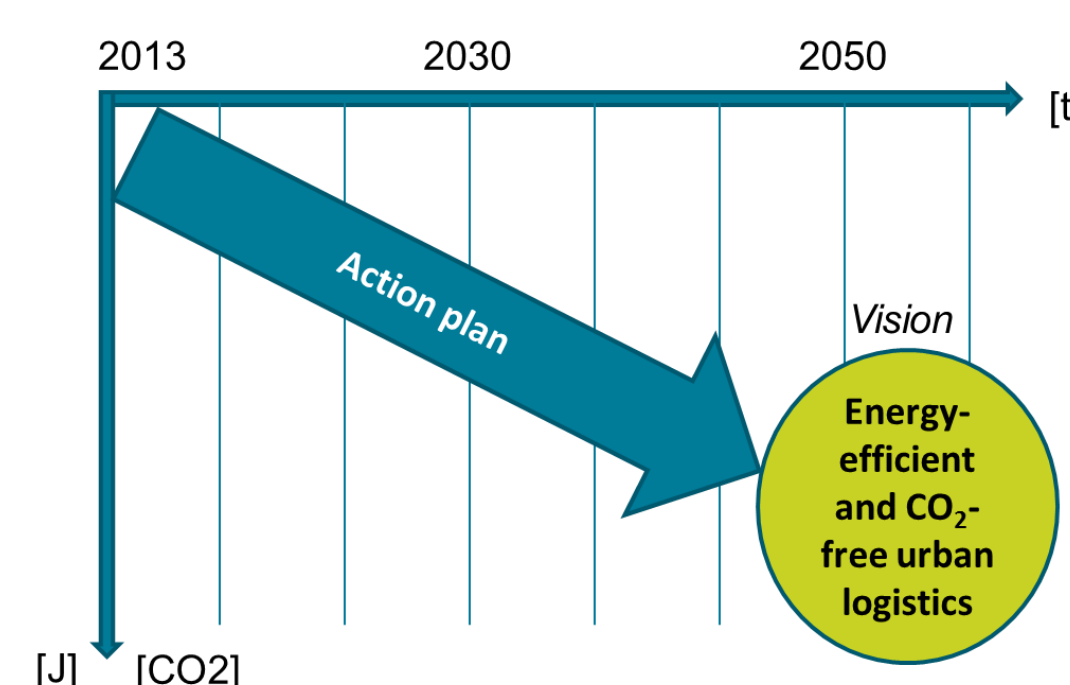
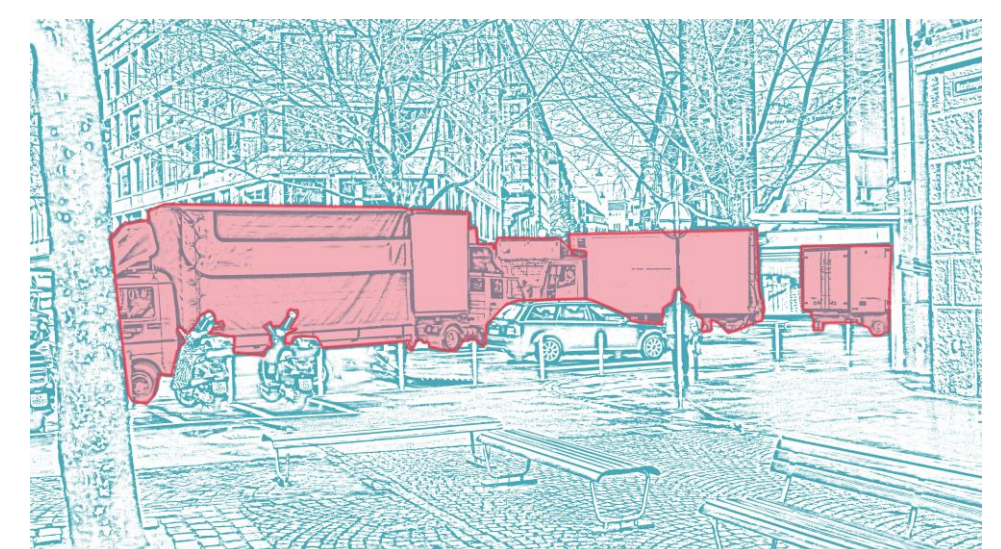
### Our project vision for 2050:

Energy efficient and CO<sub>2</sub>-free urban logistics

In transport, and especially freight transport, there is a high potential to contribute to energy savings, substituting non-renewable energy sources and reducing energy requirements ("eco-sufficiency").

Innovative and competitive approaches reducing energy consumption, greenhouse gas emissions and non-renewable energy use in urban logistics are researched:

- ✓ Logistical approaches
- ✓ Cooperative approaches
- ✓ Technological approaches
- ✓ Regulatory approaches



## Contact

Martin Ruesch  
martin.ruesch@rapp.ch  
+41 58 595 72 43

Rapp Trans AG  
Max-Högger-Strasse 6  
8048 Zurich  
Switzerland



Martin Ruesch  
Thomas Schmid  
Simon Bohne  
Philipp Hegi



Prof. Dr. Ueli Haefeli  
Daniel Matti  
Tobias Arnold



Prof. Dr. Ulrich Weidmann  
Dr. Dirk Bruckmann  
Tobias Fumasoli