

PROJECT

smartBOX

SmartBOX-Kleingutmobilität 2.0

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Funding: National (Austria)

Duration: Sep 2014 - Aug 2016

Status: Complete



Objectives:

The aim is to reduce traffic density by using a prospectively integrated system for autonomous general cargo, luggage and package transport and simultaneously promote passenger traffic by developing a system for public freight traffic. Passengers will be getting rid of their luggage as well as passenger traffic and freight mobility are going to be installed at once. In order to realise this goal, the research project smartBOX will provide concepts regarding the following system components:

- Conception of a standardised dual-use container with an intelligent control system and user security access. (= the 'smartBOX')
- Development of a pool system in order to provide availability, exploitation and control of the smartBOX regarding B2B as well as private passenger traffic by using electronic tracking & tracing methods and web-based communication technologies.
- Conception of extensively used vandalism proof pick up and dropping terminals in public areas as well as housing complexes.
- Adaption for freight transfer in the B2B sector.
- Conception of an encroached, intermodal transport system which will realise and bundle transport requirements in order to prevent multiple trips.
- Conception of IT-functionality by considering transparency and data privacy for decentralised autonomous subsystems.
- Conception of business models to provide favourable and distance-related transportation rates, cover service-provider expenses and combine with presently used systems.

The aim of the research project smartBOX is to document the challenges, technical and economic opportunities and feasibility of an intelligent system for freight mobility and serve as a basis for following implementation.

Parent Programmes:

[MOTF - Mobility of the Future](#)

Institute type: Public institution

Institute name: FFG - Die Österreichische Forschungsförderungsgesellschaft

Funding type: Public (national/regional/local)

Other programmes: MdZ - 3. Ausschreibung (2013)

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Technologies:

Freight transport technologies
MegaSwapBoxes for freight intermodality

Development phase: Research/Invention

STRIA Roadmaps:

Cooperative, connected and automated transport, Network and traffic management systems

Transport policies: Societal/Economic issues

Geo-spatial type: Network corridors