

LiSeGMo

Linking Services for mobility of goods

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[Mobility of Goods]

The procedures for handling mobility and transport processes ("goods mobility") are based on organizational and technical structures that have evolved over time. Companies and participating organizations have developed tools to support the efficient handling of mobility needs. These existing services are usually tailored to the needs of the participants or were developed by them themselves and usually represent isolated solutions. The term "Linking Services" defines a concept that provides for the introduction of standardized interfaces (OpenAPIs) and new services, the task of which is to link individual solutions or individual services offered on the market, e.g. for transport planning, transport processing, dispatching, freight exchanges, B2B and B2C services, etc. The concept of "Linking Services" is based on the concept of the OpenAPIs (OpenAPIs) and new services. This could create a basis for the integration of isolated solutions with regard to the handling of transports and increase efficiency in the transport sector by using the synergies created. Furthermore, the basis for networked logistics systems is created and the establishment of the innovative concept of the "Physical Internet" is supported.

The R&D service "Linking Services of Goods Mobility" has the goal to survey the current framework conditions in goods mobility for the introduction of the concept "Linking Services". At present, existing barriers to access to data and information in the transport industry and logistics have been surveyed in technical terms and, above all, from the point of view of corporate culture. The potentials of "linking" different services were identified, as well as proposals for non-regulative incentives, the necessary framework conditions under which data holders and service providers would be willing to exchange data and services with third parties, and concrete business models in the cooperative use of data and information were developed.

The analyses are based on a survey of the technological, legal and organizational framework in the form of interviews with experts and an in-depth literature analysis. The following recommendations for action were drawn up, taking into account current and future technological developments for linking services in freight transport:

- **Definition and clear definition of the standards to be used**
- **Coordination and utilization of synergies with standardization organizations** from the transport sector (GS1 for freight traffic (container numbers, barcode, QR code) or TISA for passenger traffic)
- **Promoting cost-effective software packages for smaller companies** that are jointly developed by large software providers and offer basic functions for handling transports and linking to linking services via the standardized OpenAPI interfaces.
- **Development of strategies for the monitoring of future linking services** in the areas of compliance with the legal framework legality, non-discriminatory access to all interested parties, correct economic settlement of transactions, etc.
- **Foresee software architectures based on system-oriented organization of data and service exchange with third-party companies**, recommendations should be made for the architectures of services for special applications (both within and outside the transport sector) on an existing interface (OpenAPI) or its implementation.

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