

# iv2splus INFONET

## Gütermobilität, MdZ 5. Call (2014)

### DatenVerkehr

#### Echtzeit Datennutzung zur nachhaltigen Verbesserung der Verkehrs- und Umweltsituation im Güterverkehr

In order to produce sustainable traffic and environmental solutions in the vicinity of the transport of goods innovative services for vehicles, traffic management and logistics are explored. Fundamentals for data fusion of familiar and new data sources are defined. Based on the initial investigations a decision support tool is developed that assists in the prioritisation process of services to be developed based on benefit potentials and requirements from stakeholders.

The transport of goods is facing complex challenges due to increased demands and requirements of various stakeholders and corresponding limitations. In this context a significant position is being held by traffic and environment interests. The increased complexity of logistics of goods requires detailed information on the level of operation as well as on the level of traffic control and management. At the same time new possibilities evolve in terms of data provision and communication due to advancing technological developments (e.g. in the sector of vehicle engineering and traffic management) and automatic data generation (e.g. internet of things). These new data sources and possibilities can be used to master demands and new requirements.

The project DatenVerkehr explores possibilities of merging big data sources which are becoming increasingly available in the fields of vehicle technology, traffic management and logistics. Furthermore it identifies potential services and applications in the highlighted fields of interest that could benefit/derive from these data sources. In terms of project delivery the consortium partners can build on extensive in-house experiences since several R&D research projects have been carried out in the fields of vehicle technology, traffic management and logistics.

Already familiar data sources in addition to new ones are analysed systematically; gaps in-between identified. Joint working sessions will evolve strategies how the additional required data sources could be retrieved. Afterwards methodologies and fundamentals are defined for data fusion taking into account offline and online possibilities.

The knowledge obtained from the first project phase will be used to establish development scenarios that include tendencies which information will be required at present/in future as well as which data will be available in the different sectors.

In addition stakeholders will be determined together with their requirements that will be the beneficiary of future services and applications.

The project delivery includes exemplary data evaluations in the area of real-world real-time car to infrastructure communication and data transfer (with a focus on environmental related measuring data). Results from the tests will be used to assess the impacts of environmental friendly vehicle propulsion systems as alternative in the vicinity of transport of goods. Besides an essential input for the determination of C2I data transfer principles can be retrieved also for other types of data exchange.

Finally a decision support tool is developed that allows evaluation and prioritisation of the different services and applications that have been identified during the earlier project phases. Based on benefit potentials and requirements from stakeholders (LOI-partner and other users of future services) general recommendations are derived that provide information in terms of which services should be implemented with high priority.

Gütermobilität

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#### Project coordination

#### Project partners

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#### Links

Link zu Kurzvideo  
[https://www.youtube.com/watch?v=Q1Cq\\_8\\_nHY](https://www.youtube.com/watch?v=Q1Cq_8_nHY)