Title: A synergy based method for designing ITS services
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Content

1. Introduction
2. Basic idea
3. Service design method
4. Service design method applied
5. LITS service
6. Conclusion
Introduction

• Synergies utilization between ITS services can lead to reduced implementation costs and a higher service utilization.

• Synergies would enable the same function(s) to be implemented only once even though it is used by more than one service in a package.

• we propose an ITS service design method for designing new ITS services by utilizing on synergies with existing services.

• By existing services, we mean the services that were identified during different EU projects.
Basic idea
Service design method

0. Identify possible ITS services which may enable possible synergies with the new service.

1. Identify functional requirements of the new ITS service.

2. Create a structured description of the new service using service description framework.

3. Identify possible synergies with the existing ITS services.

4. Redesign the new ITS service based on the identified synergies.
Service design method applied

• LITS service for identifying the responsible actor for freight damages, which can make the liability schemes transparent.

• What is damaged? When the damage occurred? Where did it occur? And who was responsible for handling the freight at the time of damage?

• Other ITS services considered in designing LITS are: E-call, Estimated Time of Arrival, Real time track and trace, Goods Identification, e-Waybill etc.
LITS service
Conclusion

• ITS service design method can be used to design new ITS services by explicitly utilizing on synergies with existing services.
• This could possibly lead to a reduced cost for implementing that service.
• Method can also be used to redesign existing services.
• LITS service can be designed using synergies with other ITS services, i.e., the e-Waybill, Real time track and trace (RTT), and Notify goods physical status (GS).
• LITS service designed for freight damages related to temperature deviations, will be extended in future.