

Electronic data exchange for the transport and logistics via mobile communication technologies (TDEM: Transport Data Exchange via Mobile)



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Youngkon Lee

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I. Project purpose

- Business requirements and essential data items suitable for mobile technologies during delivery based on MMT
- Various actual routes in modern intermodal, synchronomodal and multimodal transport → operational considerations
 - ✓ Train decoupling
 - ✓ Use of rail infra for both passenger/freight transport
 - ✓ Terminal opening hours
 - ✓ Traffic congestion
 - ✓ Co-ordinations between multiple partners and timing of road haulage
 - ✓ High transshipment cost
 - ✓

I. Project purpose

- Security and risk issues by changes in itineraries during transport
- Difficult tracking of the trade items
- Requirements for the information of all such changes in safer, more precise and prompt ways
- Key data requirements to support short, sharp efficient data deliveries



Mobile technology

II. Scope

- Specifying real time and geographical data items to be useful to exchange in order to increase transparency, reliability and completeness during the transport movements of consignments;
- Developing BRS based on the MMT high-level BRS;
- Developing an RSM to help users apply the identified data items in standardized message structures.
- Develop a guideline for implementing the scenario defined in the BRS and RSM deliverables

III. Deliverables

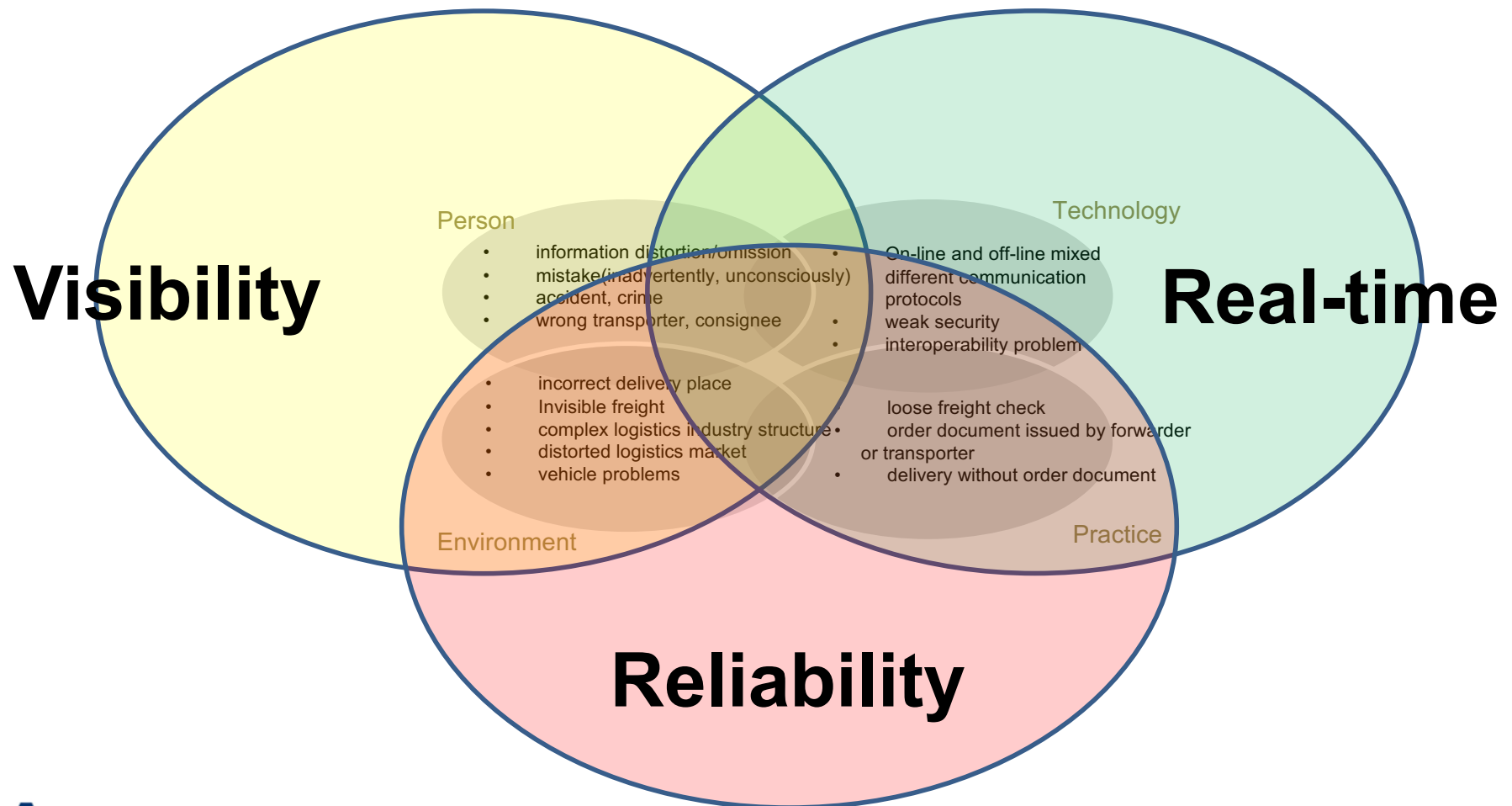
- Business Requirements Specification (BRS) as defined during the business requirements gathering
- Requirements Message Specifications (RSM)
- XML schema of the required messages
- Guideline document

IV. Initial Contributions

- T&L's Multi-Modal Transport Reference Data Model (project p1023)
- BRS IFTM International Forwarding and Transport
- UN/CEFACT Modelling Methodology (CEFACT/TMG/N093)
- UN/CEFACT ebXML Core Components Technical Specification Version 2.01
- Artefacts from the South Korea Electronic Bill of Delivery for Logistics (e-BOD) project

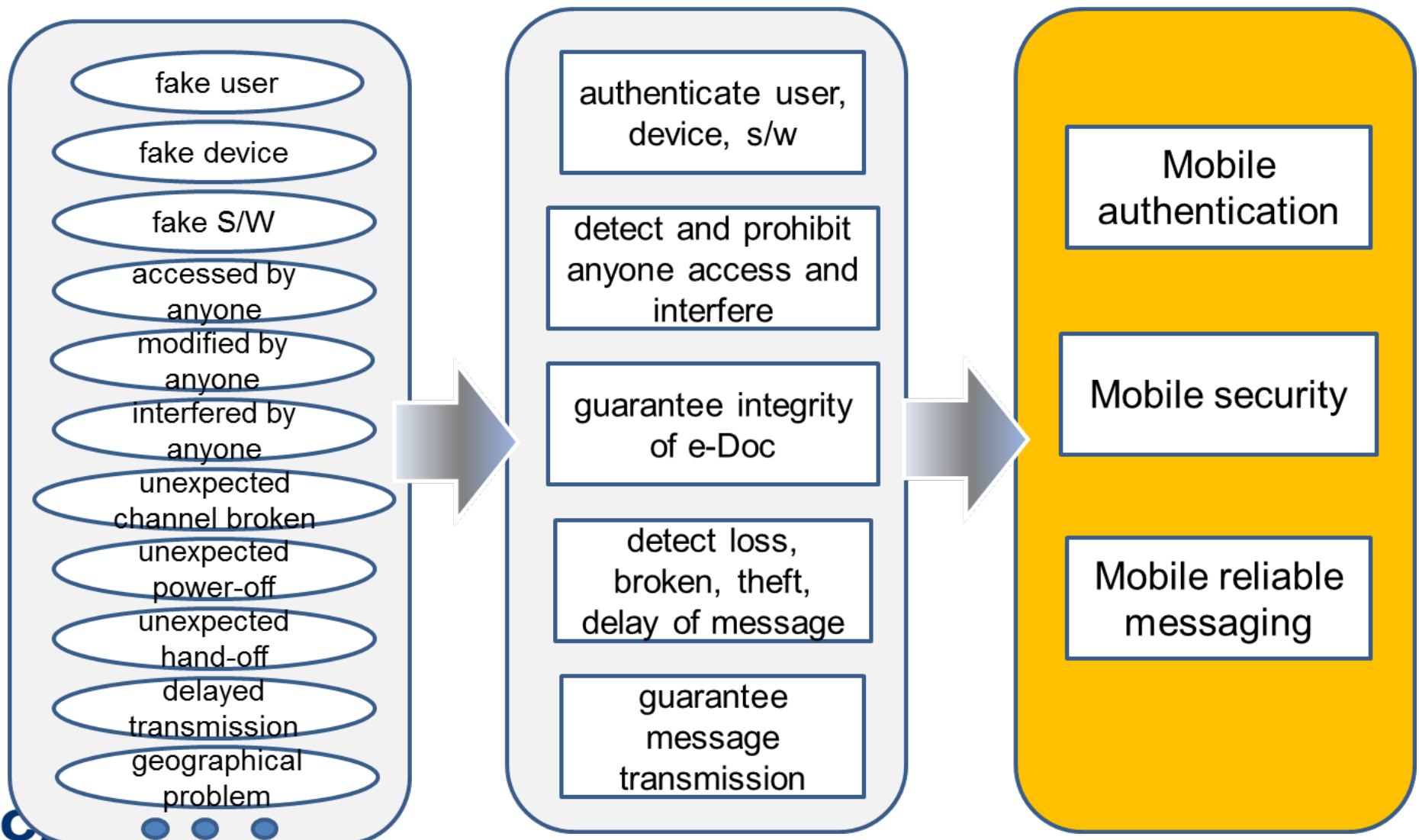
V. Requirements

Reliable Visible Real-time Logistics Data



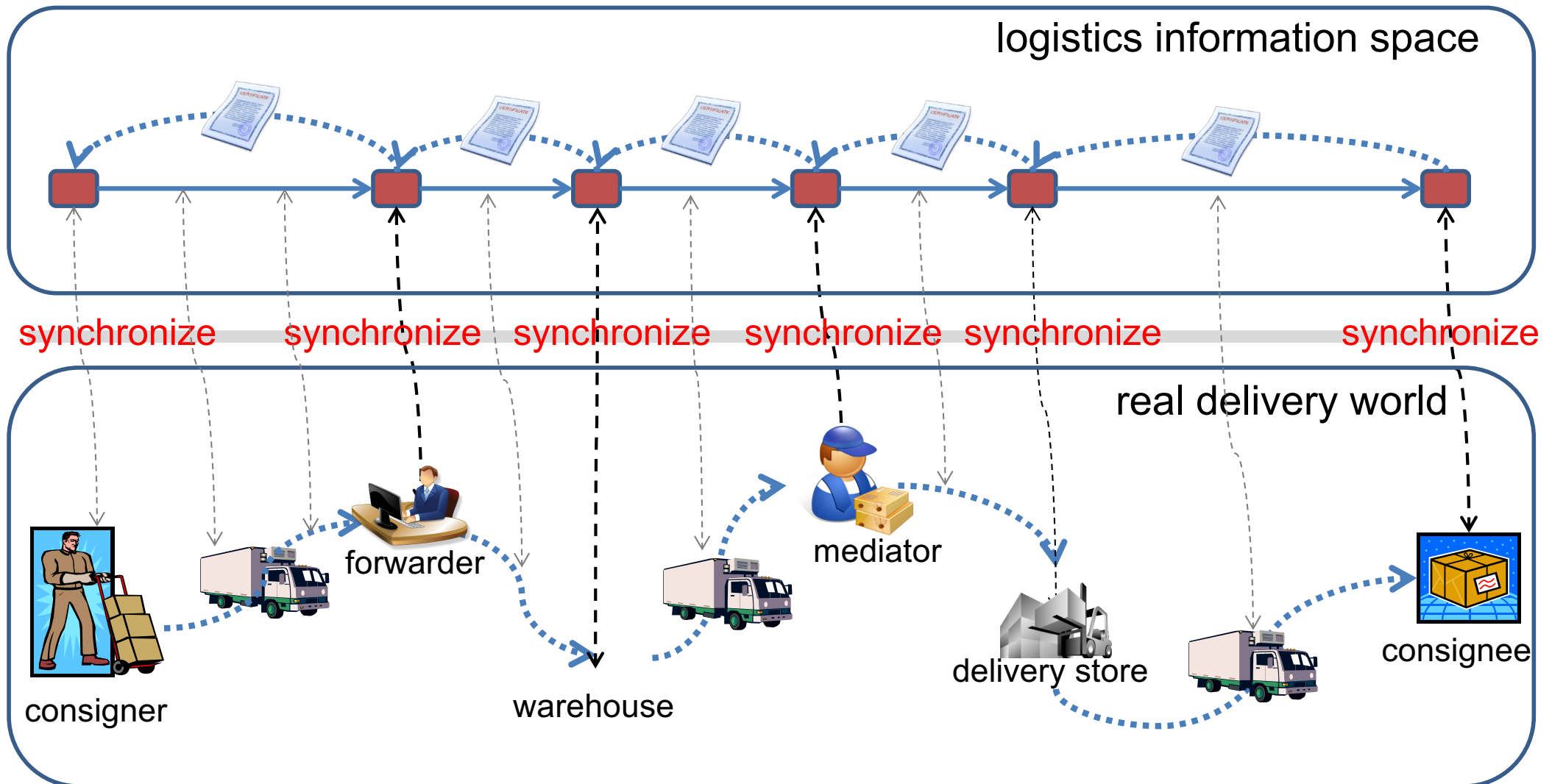
V. Requirements

Issues and concerns in mobile technology



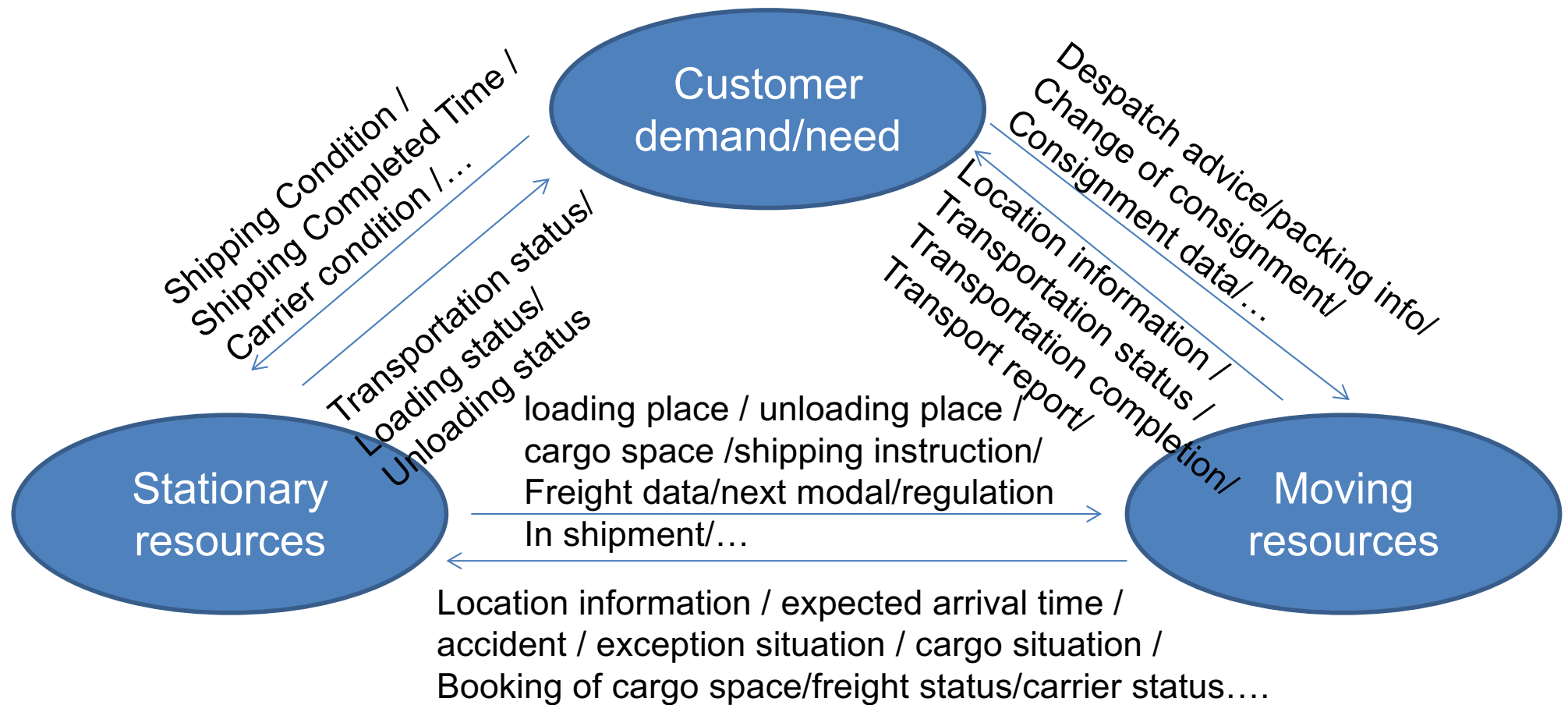
V. Requirements

Synchronization for logistics data



VI. Target Data for Synchronization

Data for stationary resource/customer demand/moving resources



- Thank you -