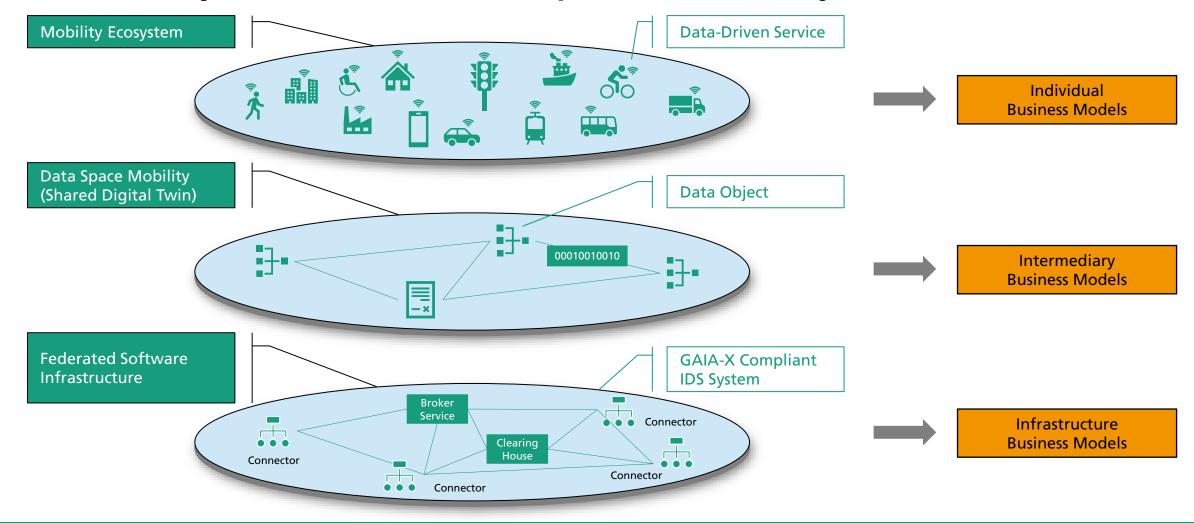
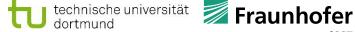


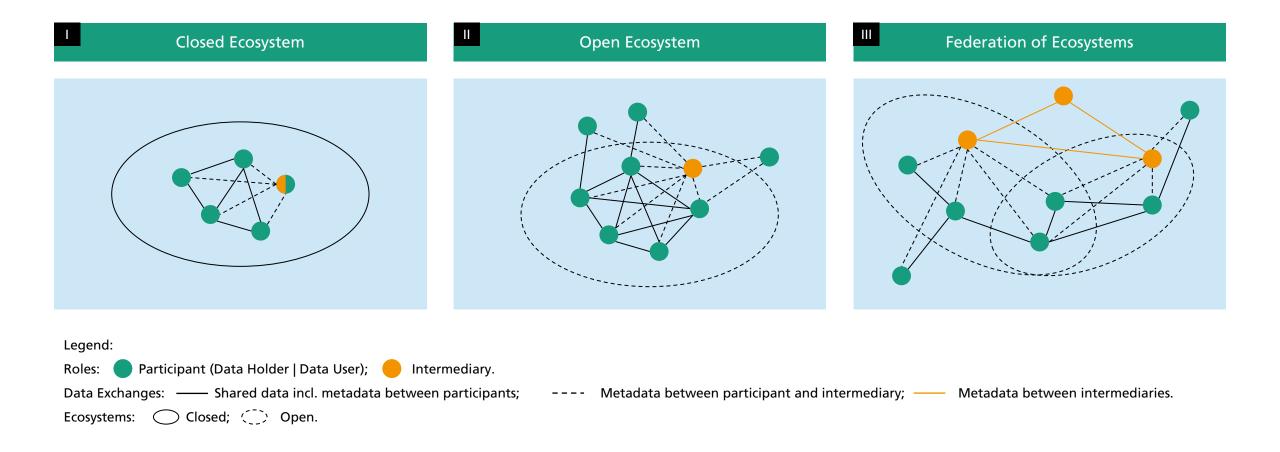
Resting on a federated software infrastructure, data spaces are an enabler of business ecosystems – as in the example of the mobility domain







Ecosystems based on Data Spaces evolve over time



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Business requirements of data holders and data users point to provisions for data sharing intermediaries

What businesses need ...

- Data value creation
 - Increased use and re-use of data
- Low transaction costs
 - Data interoperability
 - Metadata interoperability
 - Cross-sectorial data sharing
- Fair data sharing
 - No lock-in
 - No data monopolies
 - No gate-keeping, no entry barriers
 - **Openness**
- Data sovereignty
 - Transparency of data use
 - Self-determination about data use

... and what that means for intermediaries

- Adoption of a standardized software infrastructure
 - Interoperability, portability, and reversibility
 - Data sovereignty »by design« (»ex ante« compliance)
- No concentration of
 - ... data storage/aggregation,
 - ... metadata of data transactions,
 - ... data transactions processing,
 - ... »locus of control« on data models, business rules/policies etc. ...
- ... if intermediary reaches dominance ...
 - ... in one market,
 - ... across markets,
- ... or operates in critical domains.

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The mobility domain is well prepared to take a lead in the journey towards domain-specific data spaces in Europe

- Mature semantic information systems standards (e.g. DATEX II)
- Network of National Access Points
- Strong initiatives in the member states such as
 - Mobility Data Space in Germany
 - Travel Data Space in France
- Various ecosystem members and stakeholders in a B2B2C2G set-up
- Ongoing projects to implement IDSA and GAIA-X standards

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Your Contact Person



Prof. Dr. Boris Otto

Executive Director

₩ Boris.Otto@isst.fraunhofer.de

www.xing.com/profile/Boris_Otto

www.twitter.com/DrBorisOtto

in linkedin.com/in/boris-otto-5701b51

Fraunhofer ISST

Emil-Figge-Str. 91 44227 Dortmund

www.isst.fraunhofer.de



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