

Open APIs  
for Open  
Minds

# FIWARE and MIMs: Making Data Spaces happen

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CTO

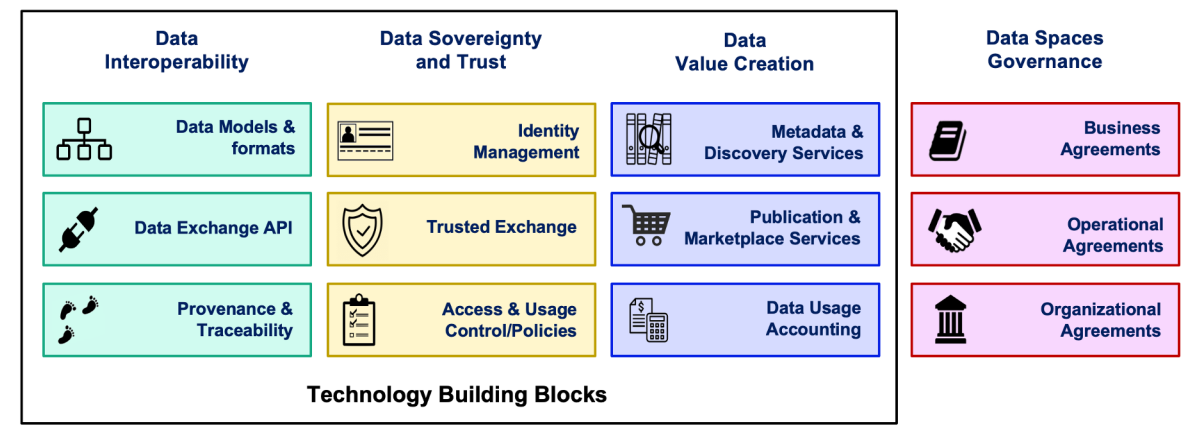
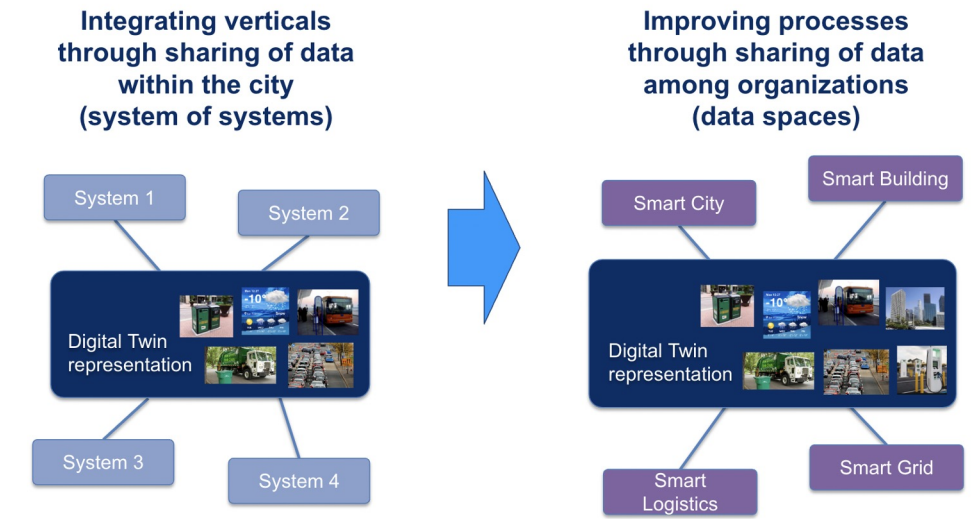
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# Data spaces: next natural step in cities transformation journey

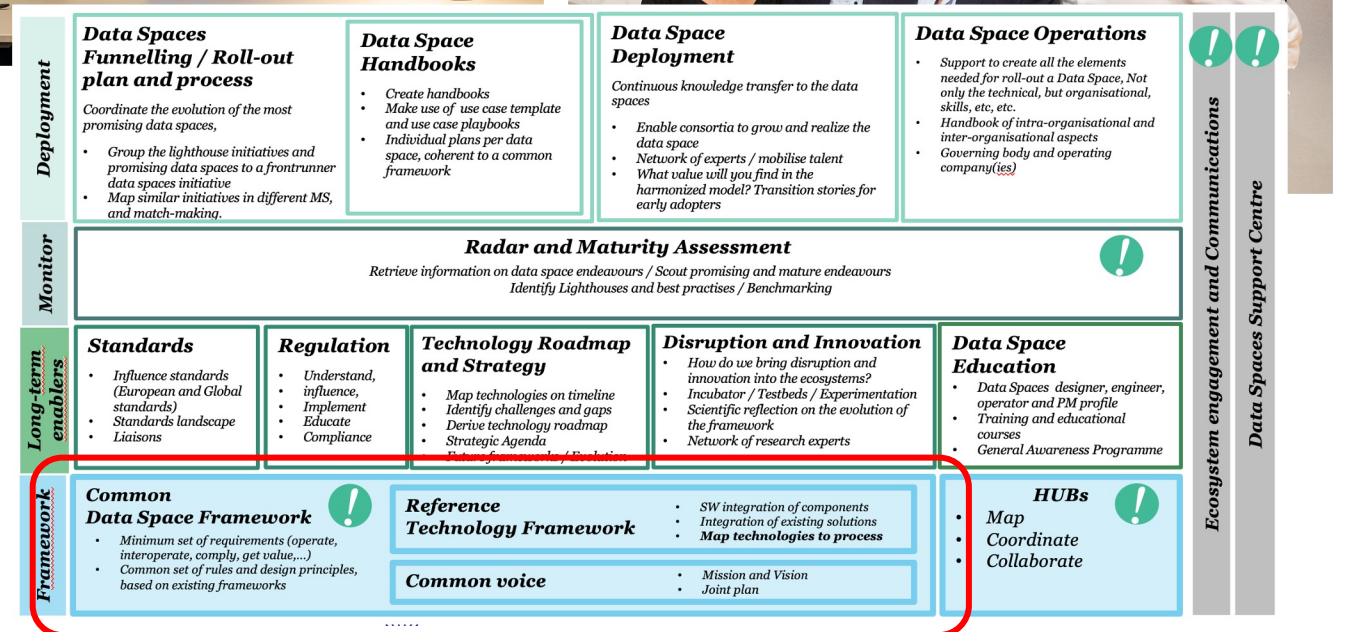
- Many cities already have open data sharing practices in place:
  - many: traditional open datasets publication
  - most advanced: real-time open data based on standard APIs (MIM-1 - NGSI-LD) and common data models (MIM-2 - smart data models)
- Next natural step driven by the need to:
  - integrate data services offered by third parties
  - offer data services to third actors and foster development of a local data economy
- This requires to solve certain challenges:
  - how to verify trust on entities, services
  - how to achieve decentralized IAM
  - how to implement marketplaces
- Together with data interoperability building blocks, building blocks solving these challenges provide the technology foundation for data spaces



# Data Spaces Business Alliance: joining forces

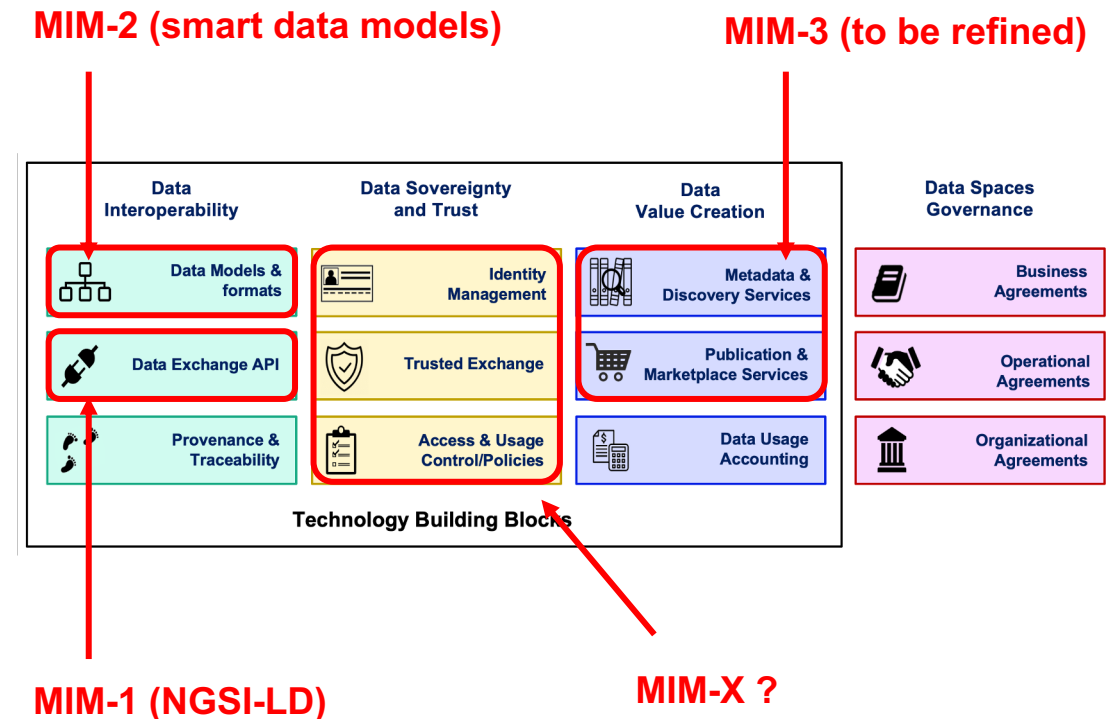
BDVA, FIWARE, GAIA-X and IDSA launched the [Data Spaces Business Alliance \(DSBA\)](#) to accelerate Business Transformation in the Data Economy (Sep 23<sup>rd</sup>, 2021)

- One voice and a common framework to make interoperable Data Spaces happen;
- Together, the Alliance's founding organisations represent 1,000+ leading key industry players;
- With its combined cross-industry expertise, resources and know-how, the Alliance drives awareness and rely on more than 100 Hubs for dissemination
- [Technical Convergence discussions](#) towards common reference technology framework for creation of Data Spaces:
  - NGSi-LD + Smart Data Models for Data Interoperability
  - eIDAS and EBSI compatible Trust Anchor Services
  - Decentralized IAM based on W3C DID+VC/P standards (supporting OpenID and DIDcomm protocols)
  - Data Services Marketplaces based on TMForum specs and catalogue of Gaia-X compliant self-descriptions



# From vision to execution: i4Trust

- Implementation of consolidated results of DSBA Technology Convergence work:
  - NGSi-LD and smart data models for interoperability
  - eIDAS and EBSI compatible Trust Anchor Services
  - Decentralized IAM based on W3C DID+VC/P standards (OpenID SIOPv2+OIDC4VP protocols)
  - TMForum compliant Data Services Marketplaces
- Software that works!
  - FIWARE components compatible with iSHARE scheme - available on [GitHub](#)
  - Training material ([tutorials](#), [training](#))
- Pioneer experiments started Jan 2023:
  - 17 experiments
  - 18 DIHs and 80+ SMEs from 16 countries
  - Multiple application domains
- Solid basis for the deployment of MIM-based data spaces in Digital and Horizon Europe programmes



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