

Gaia-X “The power of data spaces – How to get started!”

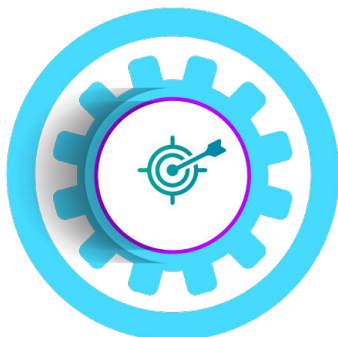
ESBS Austria, November 7th 2024, Linz

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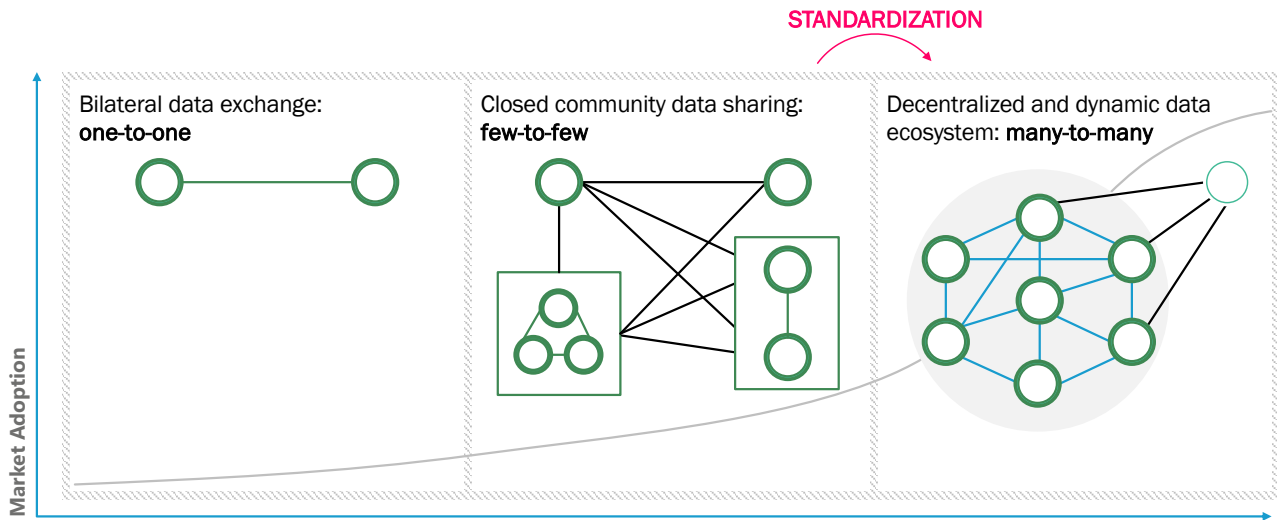
Gaia-X Vision

VISION



Enable trusted decentralized
digital ecosystems

The demand for Data Spaces



Source: Data Spaces Business Alliance

Data Space recommendations



Trust between parties, or participants

- Establish a trust framework
- Establish transparency with full audit trail



Access to High Quality Data

- Avoid silos – silos start at your own company or region
- Establish policies along your value chain



Need for a trustworthy Ecosystem

- Put the data to use – siloed data does not “perform”
- Rely on a trustworthy standard to protect your investment and stay flexible



EU legislation, global legislation

- Use a framework that enforces transparency on all relevant aspects
- Use a framework that is flexible to specific use case needs

What is a DataSpace



A data space can be defined as a data ecosystem built around commonly agreed building blocks, enabling an effective and trusted sharing of data among participants to create value

Definition by the Data Space Business Alliance

Dataspace Governance Authority and Trust Framework



Example International travel

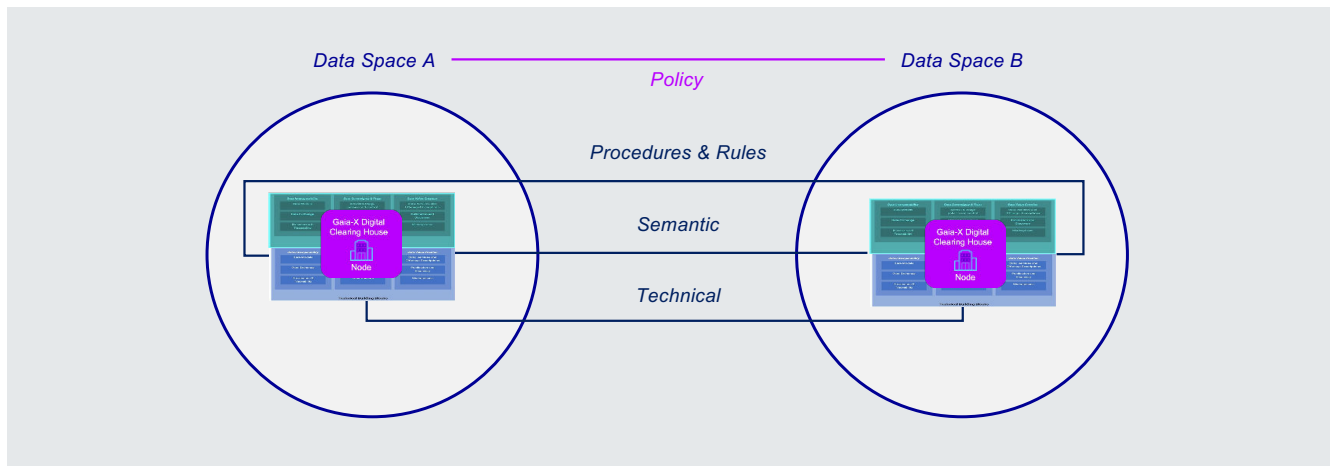
1. Countries agree on travel "policies"
2. Countries agree on requirements for passports/IDs
3. Each country has its own process and authorities to issue passports/IDs
4. Each country defines what citizens can do with their IDs (digital public services)

Enable the Data Space Governance Authorities (DSGA) to describe and manage their Data Space compliance with their own rules /scheme / ontology / trust anchors, leveraging the technologies of the Gaia-X Trust Framework

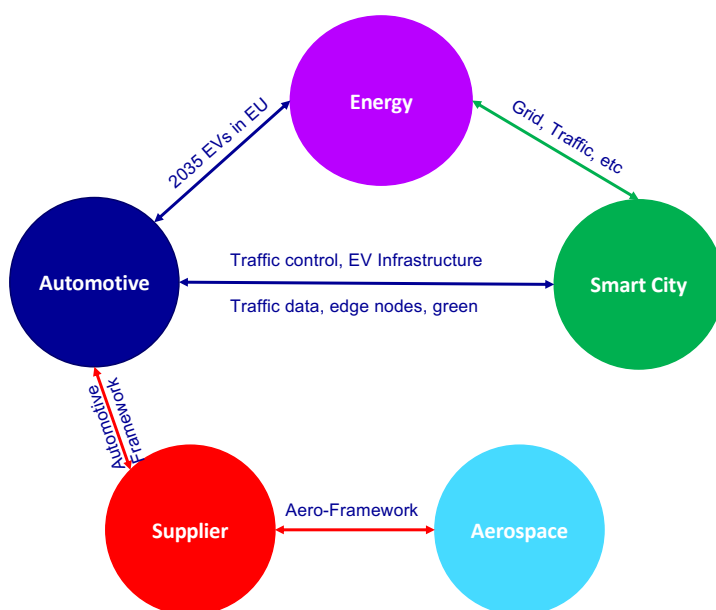
Gaia-X & Dataspaces

1. Gaia-X (members) agree on a trust framework
2. Gaia-X (members) agree on architecture and standards
3. Dataspaces establish their "onboarding" processes and DGA
4. Dataspaces define all rules inside the dataspace

Connecting Dataspaces



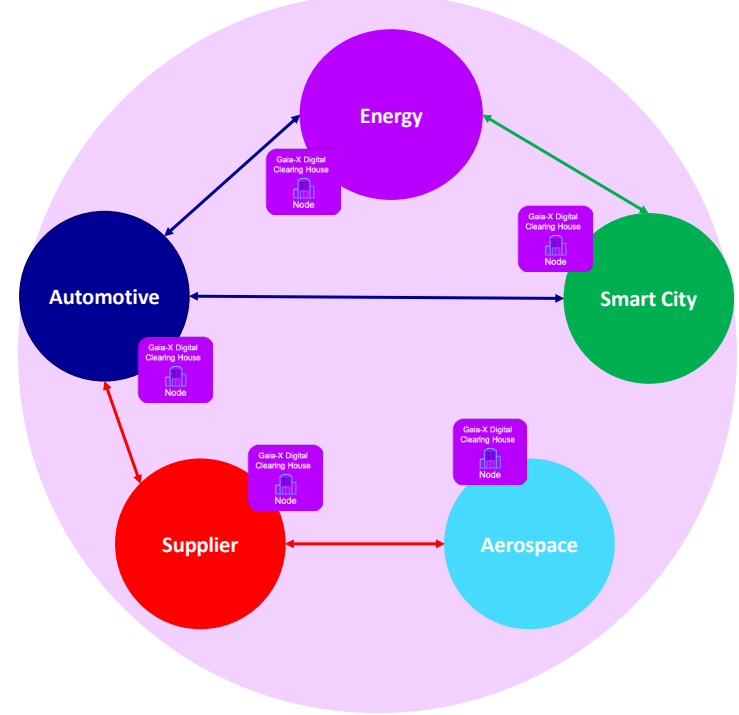
Data Spaces | Ecosystems – the problem in-between



Limits of current Dataspace Projects

- Each Data Space has an internal Trust (organizational, contractual and/or technical)
- Different Data Spaces do not automatically trust these internal trusts
- Dataspaces might have multiple customer Dataspaces
- A neutral, external Trust Framework is needed to enable X-Dataspace exchange

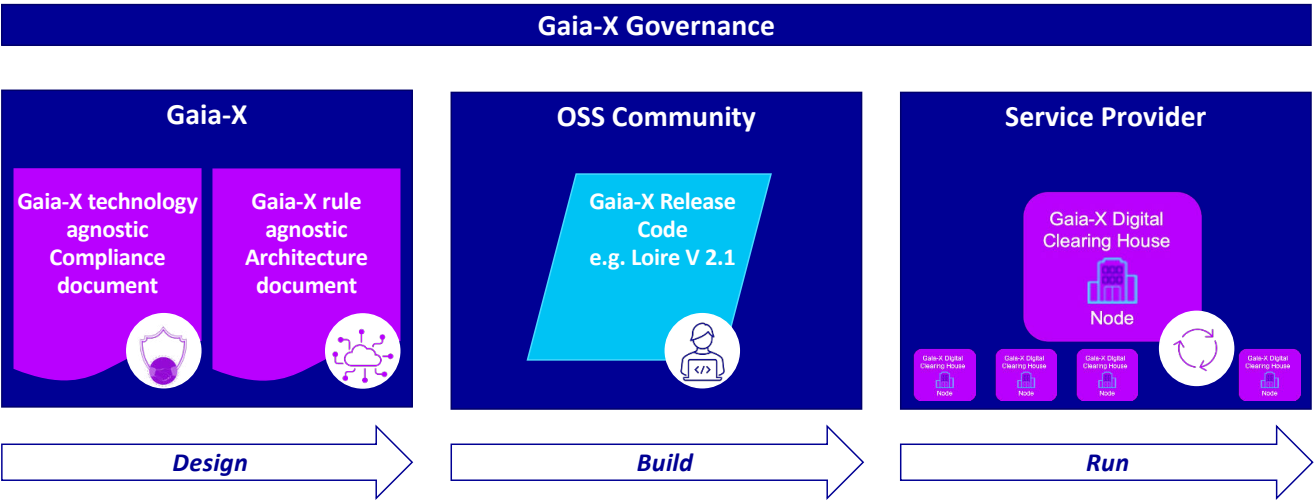
The solution: Gaia-X Digital Clearing Houses



Why the Gaia-X Trust Framework

- All Dataspaces can exchange data directly
- All Dataspaces can use the same Trust Framework outside their boundaries
- All Dataspaces can still deploy their internal trust mechanisms
- All Dataspaces can build hybrid models
- New ecosystems can be connected or created

Gaia-X Trust Framework - From policies to production

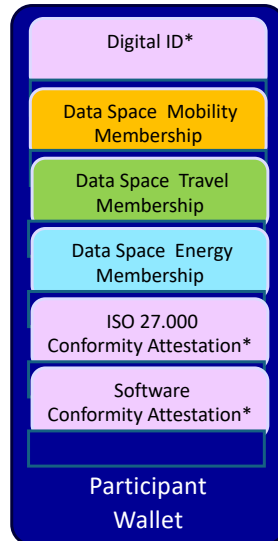


Data Space Governance Authority and Trust Framework



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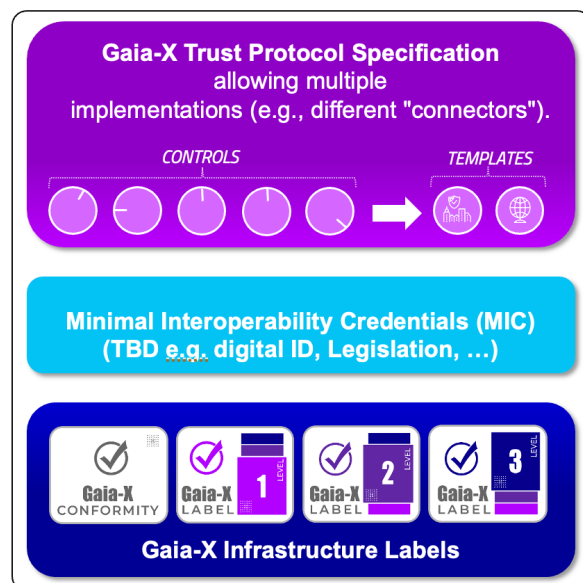
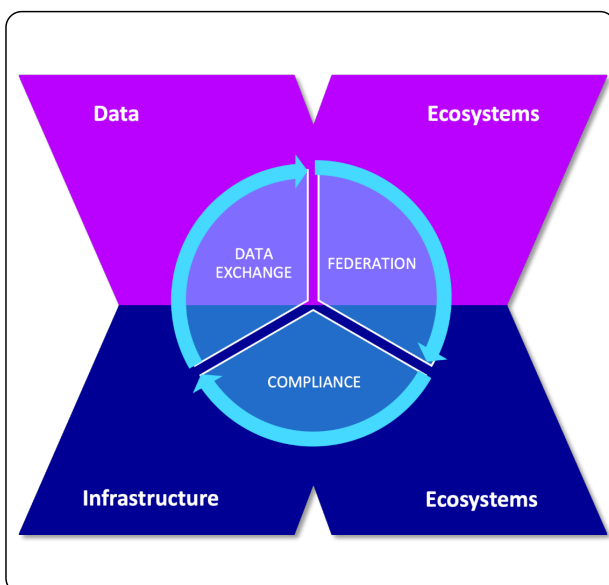


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* Minimal Interoperability Credentials

Implementation of Sovereignty Controls



Gaia-X endorsement program



Lighthouse Data Spaces



Lighthouse Projects



Data Space Application and Gaia-X



Challenge

Trust between parties, or participants

Access to High Quality Data

Need for a trustworthy Ecosystem

Global legislation challenge



Gaia-X solution

Digital Clearing Houses

Gaia-X Architecture & Trust Framework

Gaia-X Ecosystem and interoperability

Labels & Data Exchange policies enforcement

Let's make data sovereignty real!

Gaia-X Association

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