Technical Compatibility VS Compliance: The Gaia-X Value Proposition

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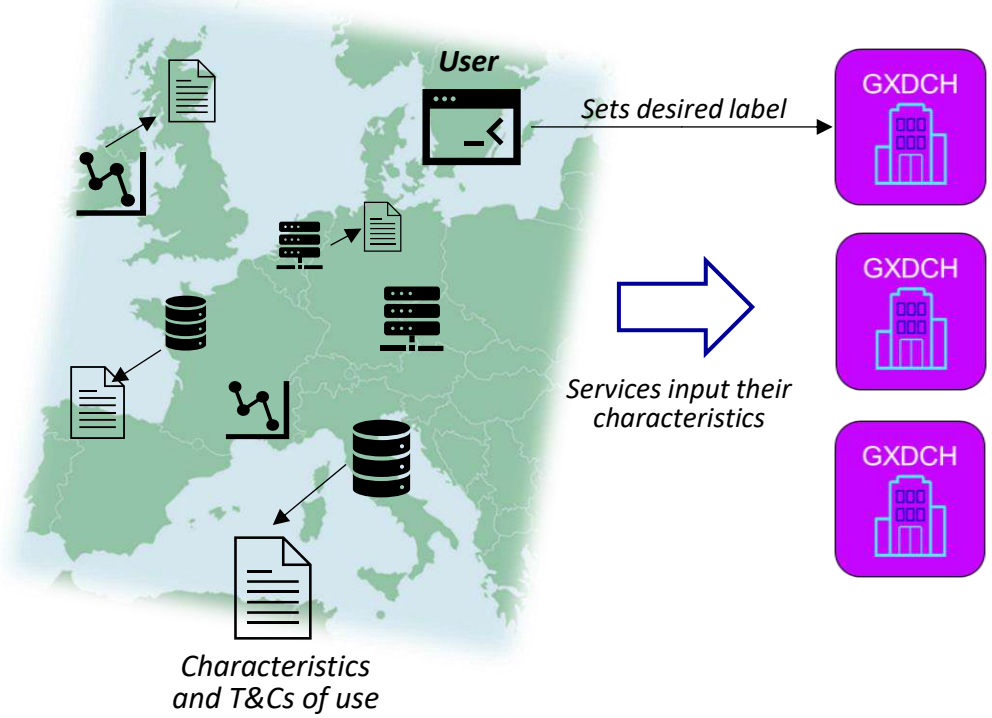
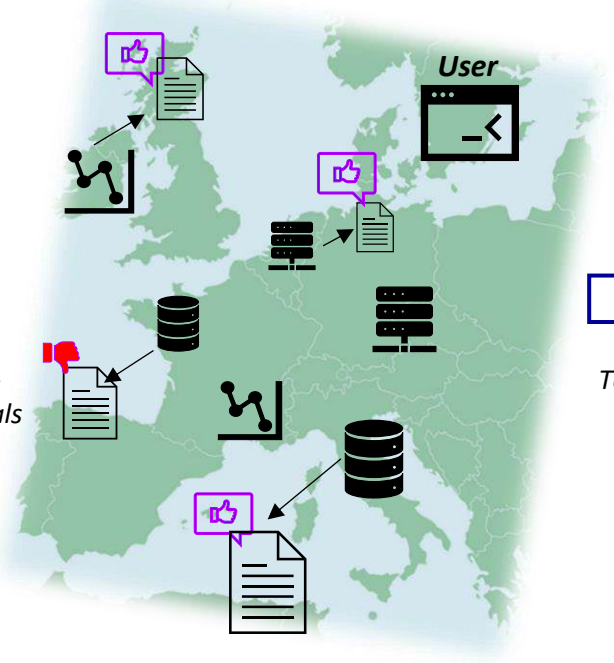
Gaia-X as a Gateway for Digital Ecosystems

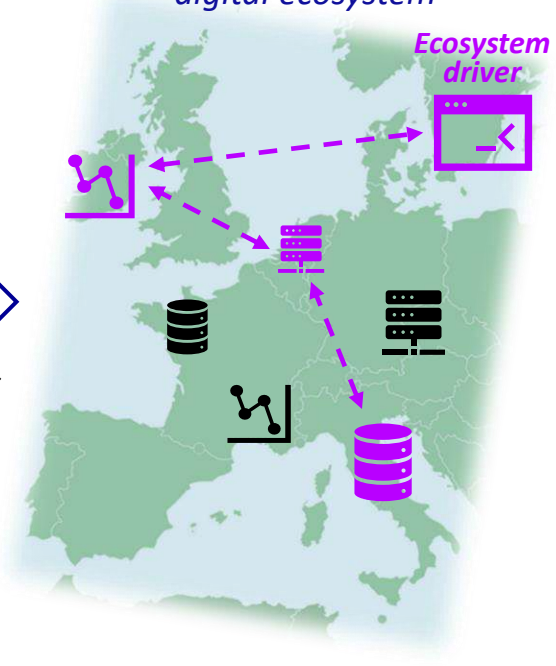
*Preexisting **data & infrastructure services** over different domains & geographies*



*A list of **compliant** services according to rules & labels requested by user*



*A **trusted** decentralised digital ecosystem*



Gaia-X Technical Compatibility

Architectural & technological specifications

*This document is **rule agnostic**, and prescribes how to describe services in a way compatible with the Gaia-X Standard*

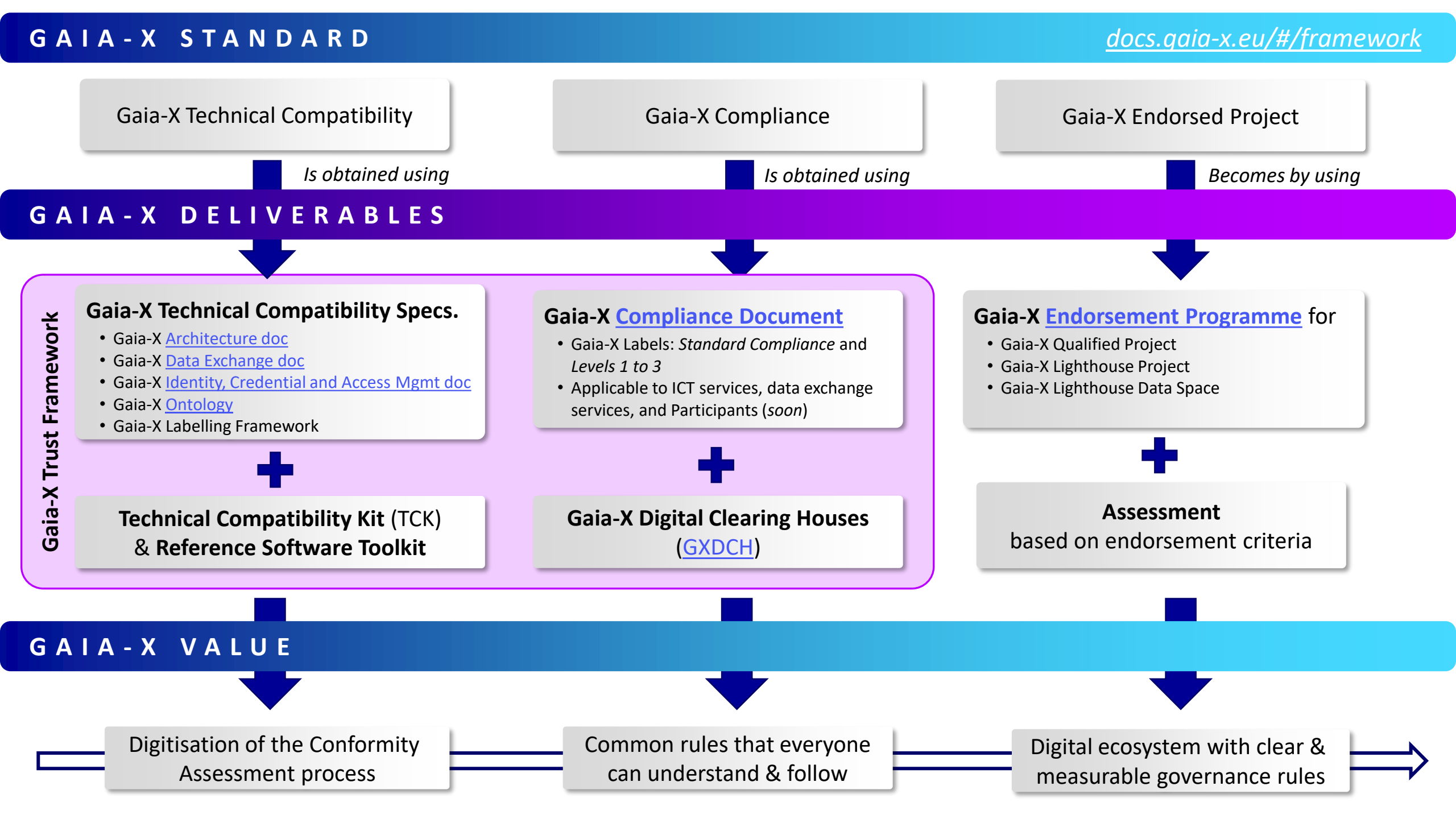
Gaia-X Compliance

Gaia-X rules for trusted federated data and infrastructure

*This document is **technology agnostic***

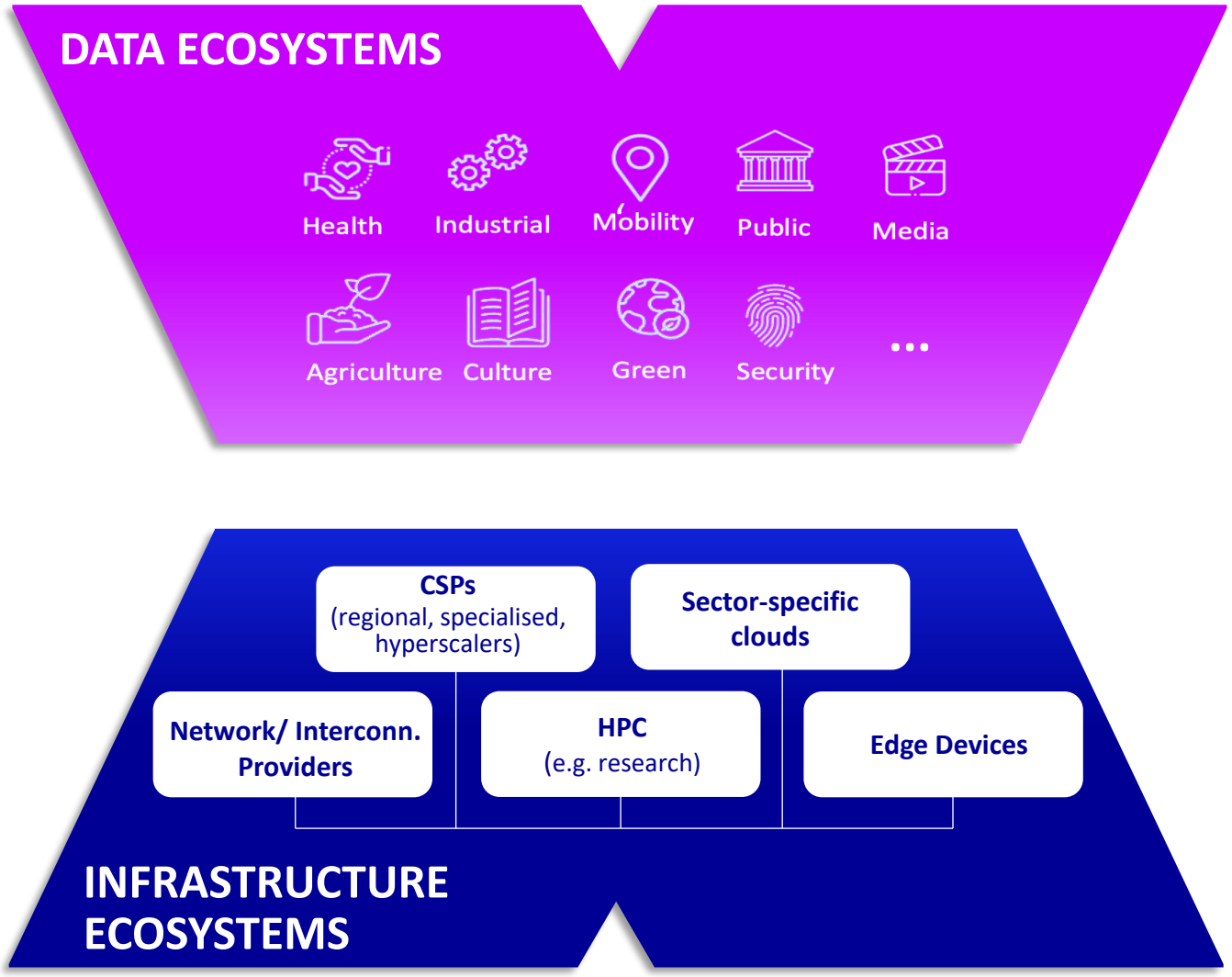
The actual technical interconnection is <u>out</u> of Gaia-X AISBL's scope, implemented instead by Gaia-X projects.

Having a common metric system for trust (identities, behaviour, SLAs, etc.) is critical for achieving critical mass in federated digital ecosystems!


GAIA-X STANDARD
docs.gaia-x.eu/#/framework
Gaia-X Technical Compatibility
Gaia-X Compliance
Gaia-X Endorsed Project
Is obtained using
Is obtained using
Becomes by using
GAIA-X DELIVERABLES
Gaia-X Trust Framework
Gaia-X Technical Compatibility Specs.
• Gaia-X Architecture doc
• Gaia-X Data Exchange doc
• Gaia-X Identity, Credential and Access Mgmt doc
• Gaia-X Ontology
• Gaia-X Labelling Framework
Technical Compatibility Kit (TCK)
& Reference Software Toolkit
Gaia-X Compliance Document
• Gaia-X Labels: Standard Compliance and Levels 1 to 3
• Applicable to ICT services, data exchange services, and Participants (soon)
Gaia-X Digital Clearing Houses
(GXDCH)
Gaia-X Endorsement Programme for
• Gaia-X Qualified Project
• Gaia-X Lighthouse Project
• Gaia-X Lighthouse Data Space
Assessment
based on endorsement criteria
GAIA-X VALUE
Digitisation of the Conformity Assessment process
Common rules that everyone can understand & follow
Digital ecosystem with clear & measurable governance rules

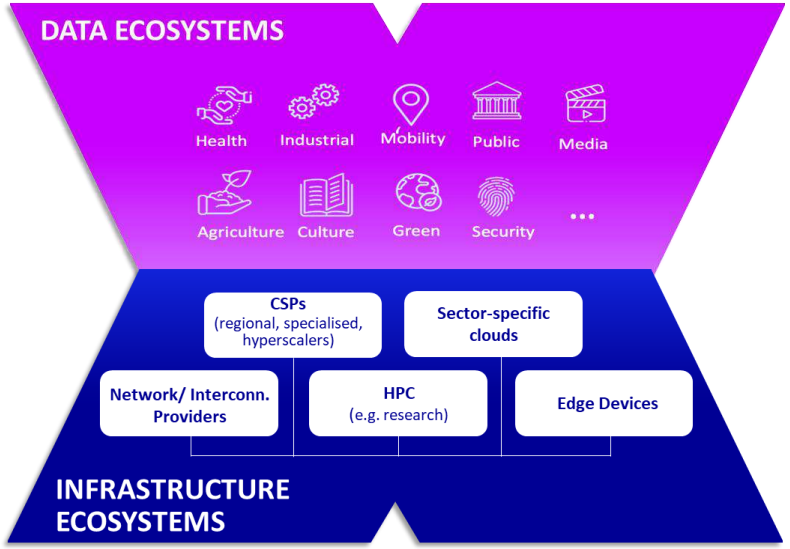
The Current ‘Split-X’ Model

Disjoint data & infrastructures ecosystems



The Gaia-X Model

- Gaia-X connects the **upper & lower part of the X**, the “data” and “infrastructure” layers



- This is because **data resources get serviced via interfaces** calling different infrastructure elements
- Thus, transparency and control at the infrastructure level are enabling **better data governance and sovereignty**

Because

Current Gaia-X Specifications

Gaia-X Technical Compatibility	Gaia-X Compliance	Gaia-X Endorsed Project
• W3C DCAT • Eclipse DSP • …	• Data exchange service • Data Usage Agreement	• *TBD*
• W3C ODRL • W3C VC • Gaia-X Ontology • OID4VC	• Gaia-X-labelled ICT services • …	• 5 service credentials
• Gaia-X TRAIN • ETSI 119 612 • ASICE file • …	• Definition of 'Participant' • KYC/ KYB • Power of attorney • Eclipse CAP	• Public registry • Data space membership credential

https://docs.gaia-x.eu/

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