

Gaia-X and its role in data sharing and federated cloud

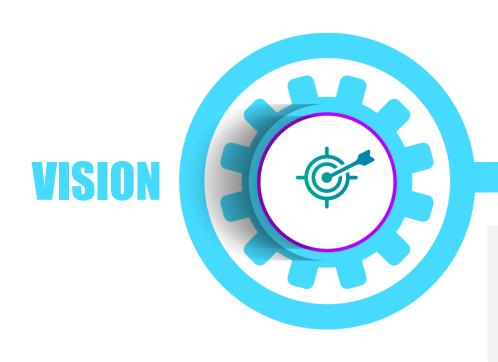
Data Sharing Festival

The Hague, 04.02.2025

Ulrich Ahle | CEO Gaia-X

Gaia-X Vision



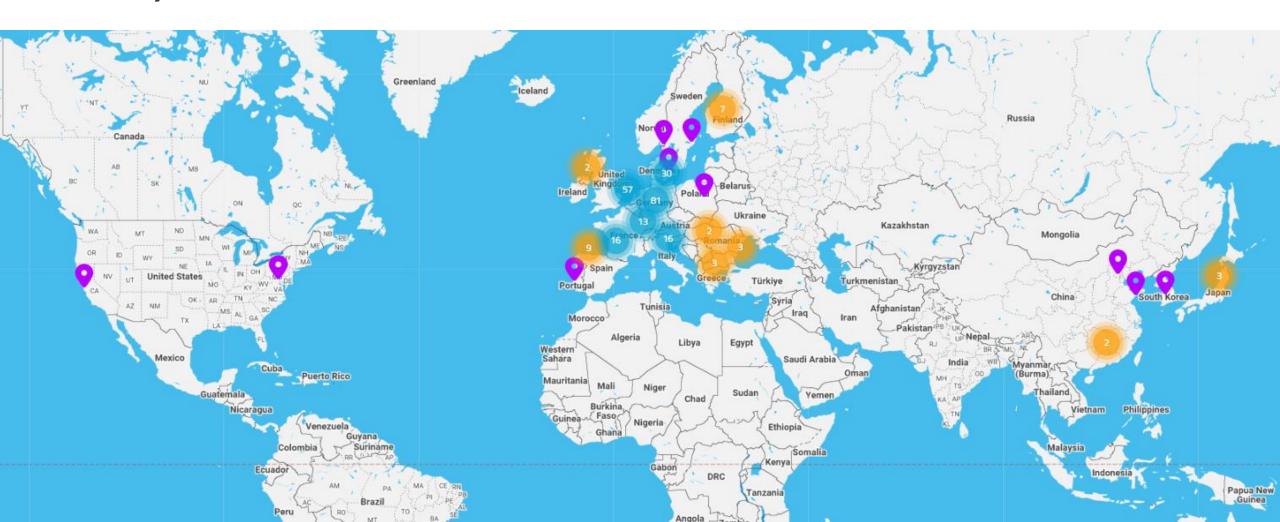


Enable trusted decentralised digital ecosystems

Gaia-X: A global member driven association



- **Founded 2021** in Europe by 11 French and 11 German organisations
- **Today 248 members** from around the world



Gaia-X: A global member driven association

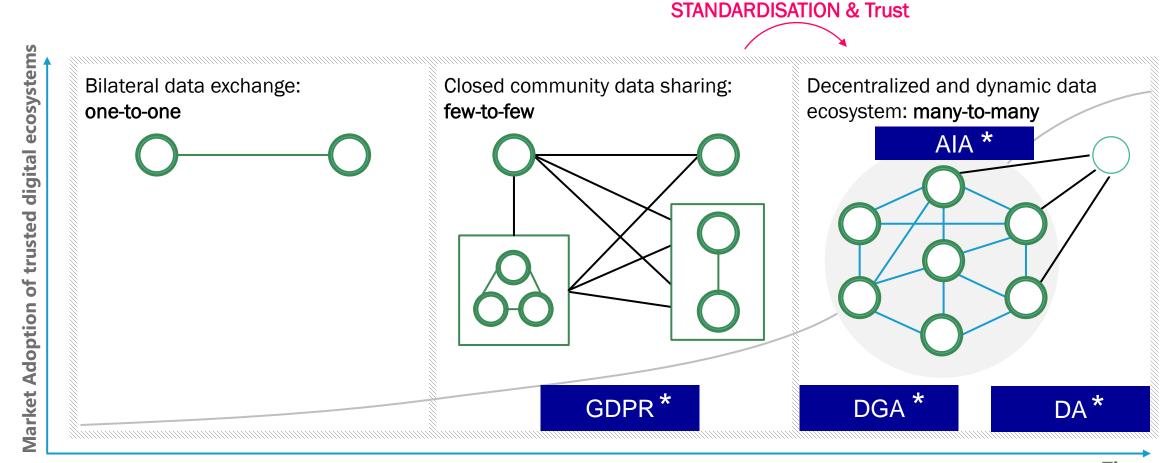


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We are the friends of data!

The demand for Data Spaces





Gaia-X Mission



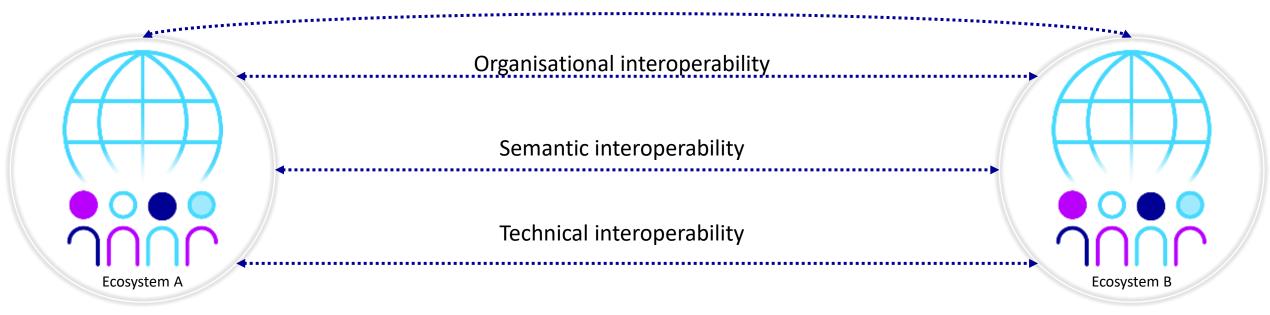
Creating the de facto standard to enable federated and trusted data and infrastructure ecosystems, by developing a set of specifications, rules, policies, and a verification framework



Interoperability layers



Legal interoperability

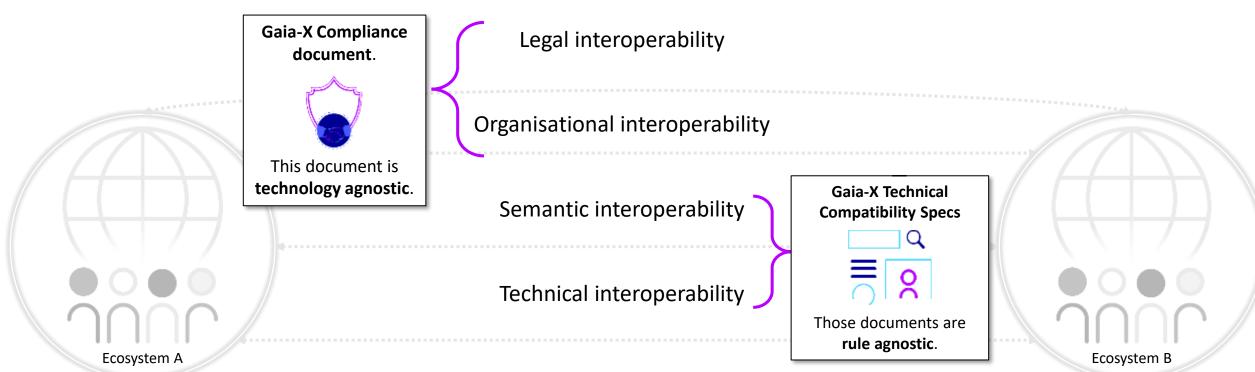






Interoperability layers





Gaia-X – Technical Committee: OSS & Services





- Fully Open-Source Software
- Worldwide adoption ready
 - Decentralised data layer for the Gaia-X Registry scalability and information consistency. (ex: EU <-> JP)
 - Support for European and non-European national Trust Service Providers.

Focus on end user services!

Automated Compliance by Gaia-X Compliance Document



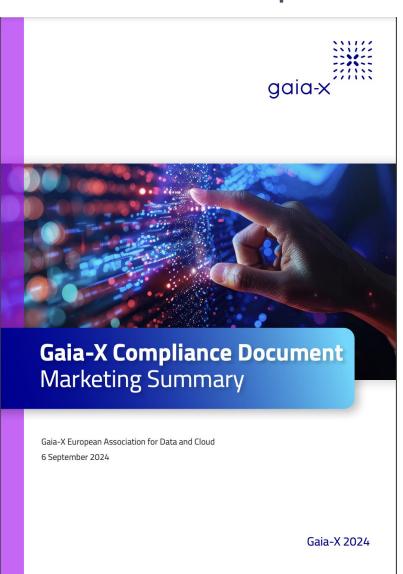
- **62 Criteria** are paving the way for an **Automated Compliance in Europe**
- Compliance documents for regions outside of Europe with other legislations to be developed by the regions with support from Gaia-X

	CONFORMITY	LEVEL 1	LEVEL 2	LEVEL 3
Declaration of Service or Product	~	~	~	~
Signed with verified method (e.g. eIDAS)	✓	~	~	~
Automated validation by GXDCH	~	~	~	~
Automated verification by GXDCH*	~	~	+	+
Data Exchange Policies	~	~	~	~
Certified Label Logo		~	~	~
Data protection by EU legislation		~	~	~
Manual verification by CAB			~	~
Provider Headquarter within EU				~

^{*}not all criteria can be automated, "+" means automated verification if the evidence issuer (Standard & CAB)

The Gaia-X Compliance Document





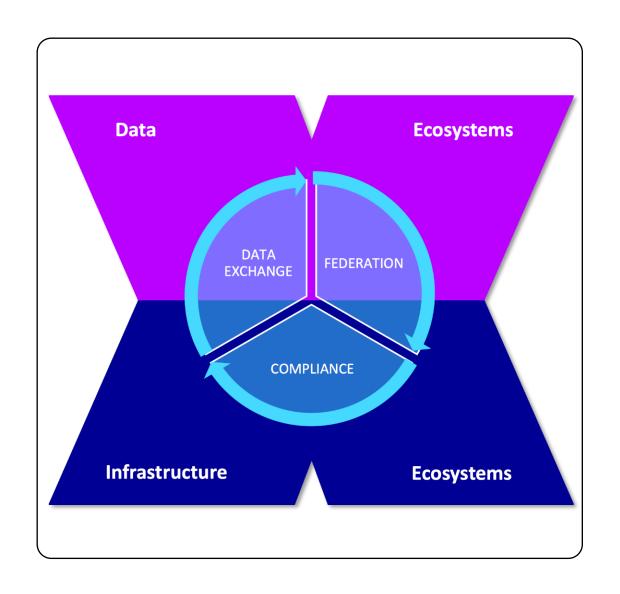


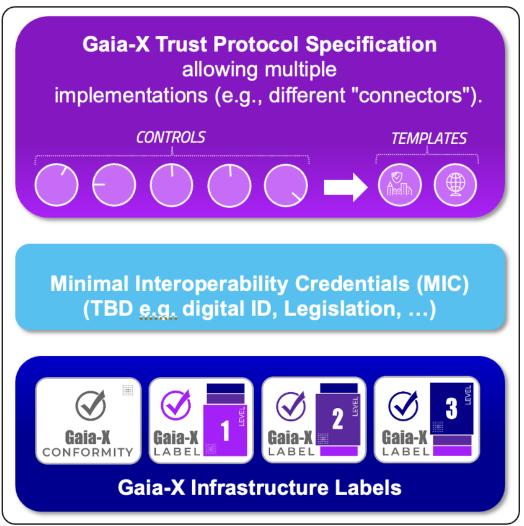
The battle for immunity from extraterritorial legislation

- SREN Law France (Sécurité et Régulation de l'Espace Numérique - Security and Regulation of the Digital Space)
- · Source: LinkedIn

WHAT: GAIA-X STANDARD 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 Endorsement Programme** for **Gaia-X Technical Compatibility Specs Gaia-X Compliance Document Gaia-X Trust Framework** Gaia-X Architecture doc • Gaia-X Labels: Standard Compliance and Gaia-X Qualified Project Gaia-X Data Exchange doc Levels 1 to 3 Gaia-X Lighthouse Project • Gaia-X Identity, Credential and Access Mgmt doc · Applicable to ICT services, data exchange Gaia-X Lighthouse Data Space Gaia-X Ontology services, and Participants (soon) **Technical Compatibility Kit (TCK) Gaia-X Digital Clearing Houses Assessment** (GXDCH) based on endorsement criteria **Reference Software Toolkit** Enabler for Enabler for Enabler for BUSINESS VALUE Semantic and Technical Digital ecosystem/ data space with clear Legal and Organisational Interoperability Interoperability and measurable governance rules

Implementation of Sovereignty Controls





Gaia-X Digital Clearing House Providers



In production



signed in deployment. pipeline













October 8, 2024

NTT DATA and Gaia-X Expand Global Reach with Deployment of Gaia-X Digital Clearing House in Japan

NTT DATA is pleased to announce the successful deployment of a testbed for a Gaia-X Digital Clearing House in Japan.

... The deployment in Japan is part of a data space test bed project led by the University of Tokyo, with active participation from industry giants including Toshiba, SoftBank Corp., NTT DATA, and NTT Communications. ...

Lighthouse Data Spaces Qualified Projects















Lighthouse Projects



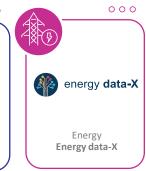








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Overview of actual Gaia-X Hubs







Washington DC

IN PROGRESS 6



Learn more about hubs here

Public Funding for Data Space & Cloud Infrastructure in Europe

Source	Programme	€	comment		
Germany	National Funding	435 M	Data Ecosystems: Gaia-X Funding Competition (11 Projects), Manufacturing-X, Catena-X, Gaia-X 4 Future Mobility, EuProGigant, Energy data-X, GXFS-DE		
Spain	National Funding	202 M	150 M for Industrial Data Spaces Open Call, 50 M for Tourism Data Spaces Open Call, 1 M for Gaia-X "Data Economy Association" Hub, 0.9 M for sovereign data technologies DEV project		
France	National Funding	124 M	40 M Data4industry-X , 70 M for new call for tender, 14 M GFXS-FR		
Luxembourg	National Funding	20 M	National funding for Gaia-X projects		
Austria	National Fundning	23 M	Data space Technologies, Digital Product Passport, Production, Mobility, Energy and Healthcare		
Denmark	National Funding	5 M	Gaia-X Hub		
Flanders	Regional Funding	32 M	Flemish Smart Data Space, Athumi (Flemish Data Utility Company)		
The Netherlands	National Funding	217 M	69 M Health-RI (health data sharing for secondary usage), 85 M DMI (Dutch Metropolitan Innovations ecosystem), 51 M DIL/BDI (Digital Infrastructure Logistics/Bas Data Infrastructure), 12 M CoE-DSC (Center of Excellence for Data Sharing and Cloud)		
Finland	Sitra	3 M	Sitra invested 2,6 M of which EUR 625.000 was used to co-finance 5 pilot projects related to data spaces. The co-financing rate covered by Sitra per project was 70%, the rest 30% was covered by project consortia members.		
EU	Digital Europe Work Programme 2021- 2024	657 M	300 M for topics supporting the deployment of the cloud-to-edge infrastructure and services, including the Testing and Experimentation Facility for Edge-Al; 357 M for topics deploying the sectorial data spaces and the related support activities, including the High Value Data Sets and Digital Product Passport. This set of calls includes the DSSC (14 M) and the procurement for Simpl (106 M).		
EU	EU4Health	280 M	Implementation of European Health Data Space		
EU	Horizon Europe	100 M	Energy Data Spaces and R&I projects		
EU	Digital Europe Work Programme 2021- 2024	240 M	Destination Earth initiative		
SUBTOTAL 2,338 M		2,338 M	Public investment for interoperable Data spaces based on European Values		
France, Germany, Hungary, Italy, the Netherlands, Poland, Spain	IPCEI-CIS	1,200 M	The Member States will provide up to €1.2 billion in public funding, which is expected to unlock additional €1.4 billion in private investments.		
SU	SUBTOTAL 1,200 M		Public investment for a federated Cloud infrastructure		
1	TOTAL	3,538 M	Public investment for a data driven European economy		

Publications













HUB HIGHLIGHTS

S.2.1 Hub Assists

Unveiling the Future of **Data-Centric Administration:** Insights from the New Gaia-X Position Paper

Jodkowski Agres, Cale V. Hab Austria

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- Find our most up to date publications including our brochures on the website and Members Platform, under Communication Material
- The latest edition of the Gaia-X Magazine is now published! Read it on our website or the Members Platform

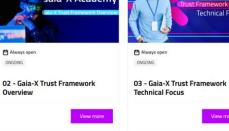
Gaia-X Academy – Status Update

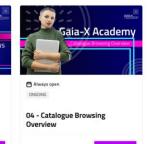


- Platform Selection
 - launched in April 2024 based on the open-source solution OpenEdx
- Gaia-X Academy technically up and running
 - More than 700 learners
 - 12 courses available: functional and technical trainings, tutorials, changelogs, certificate
 - Full access to the Gaia-X members
 - access limited to the functional trainings and changelogs for registered users
 - Content available in 4 languages (English, German, French and Italian)
 - more than 650 courses validated by the learners
- Next steps:
 - Increase the content by adding 10 new courses in the following months
 - Reshape the Academy by creating Streams and set of courses
 - Enabling temporary accesses to specific content for non-members









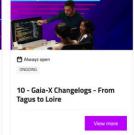












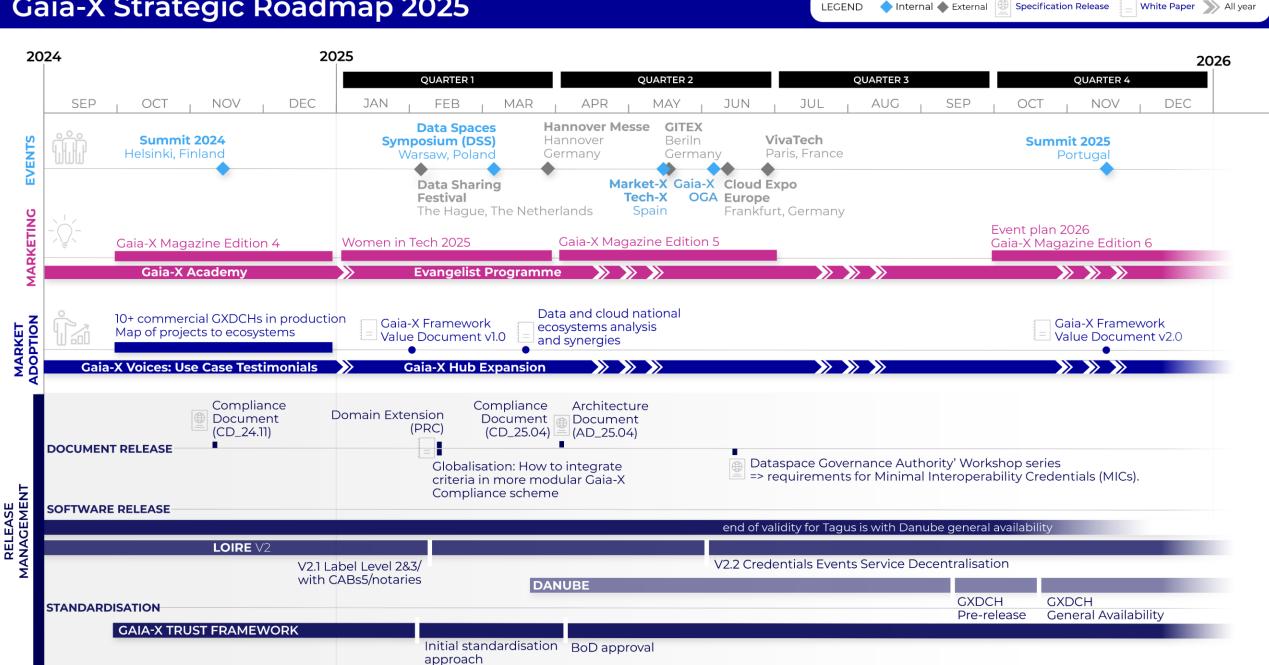








Gaia-X Strategic Roadmap 2025





Thank you!

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