

Gaia-X State of Play



Francesco Bonfiglio | CEO Gaia-X
[linkedin.com/in/francesco-bonfiglio](https://www.linkedin.com/in/francesco-bonfiglio)
francesco.bonfiglio@gaia-x.eu



Gaia-X defines a new standard to qualify and verify (trust) participants & resources in a digital collaboration



Established in **2021** as a **private not-for-profit** Association, Gaia-X brings a community around the common goal to **boost European data economy** by enabling the creation of **common data spaces**, in alignment with the **EU's data strategy**, and building a **standard for transparent, controllable and interoperable data infrastructures** for trustworthy data exchange.



Open to anyone but aligned to the European values of human-centricity, transparency, openness and sovereignty, Gaia-X's ambition is to deliver unprecedented opportunities for innovative data-driven business models **reducing the dependency from non-controllable technologies**

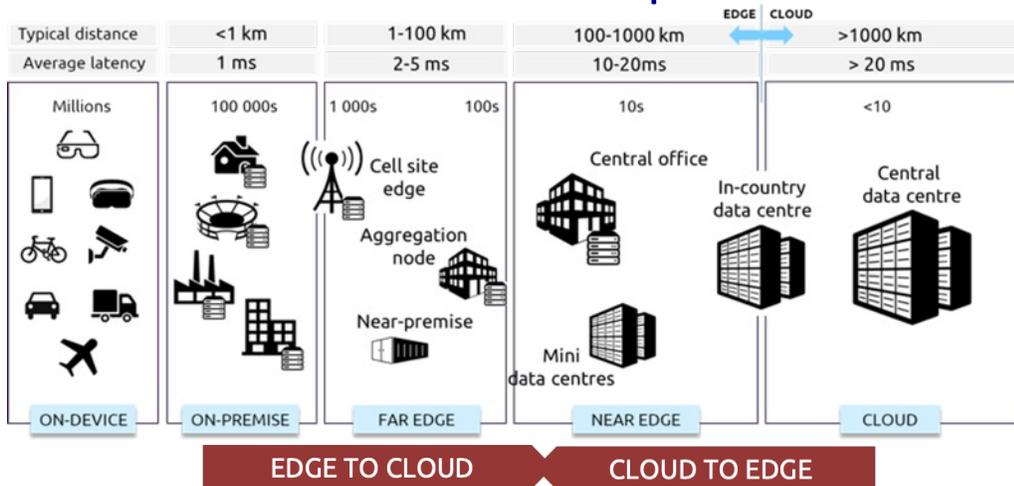
Want to learn more about Gaia-X? [Click here.](#)

Interested in becoming a member of Gaia-X? [Click here!](#)

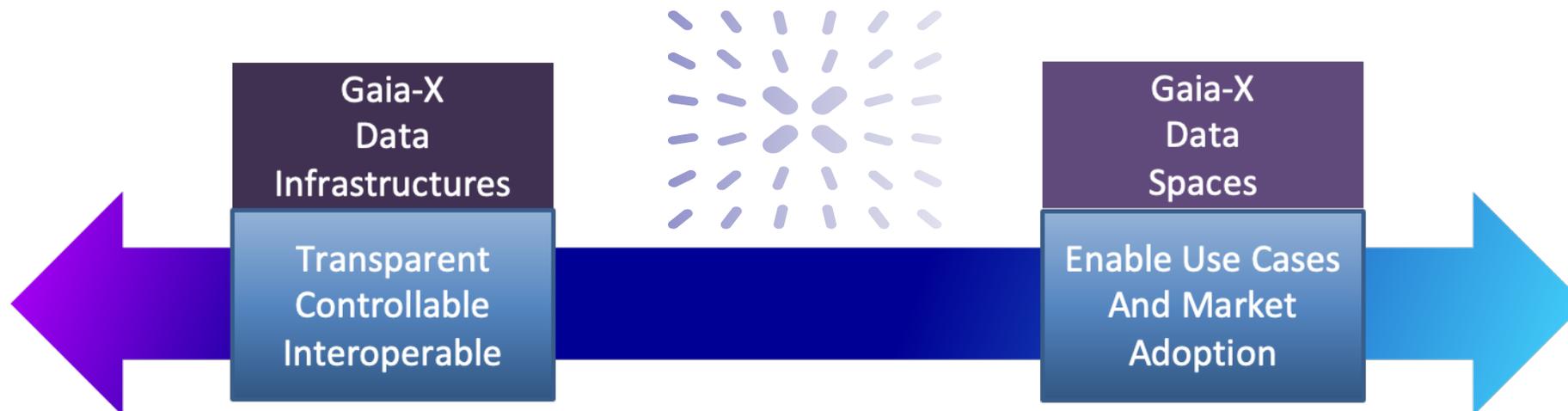
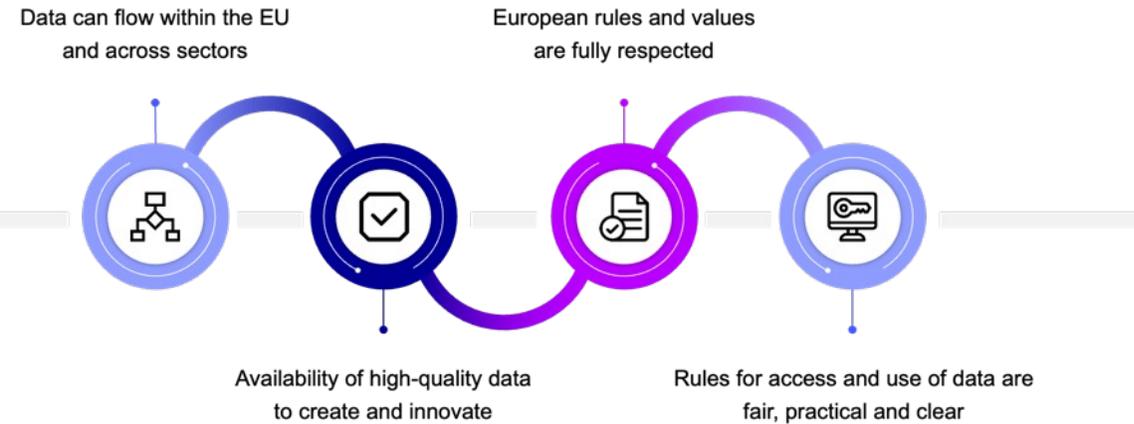
Gaia-X Vs European Data Strategy



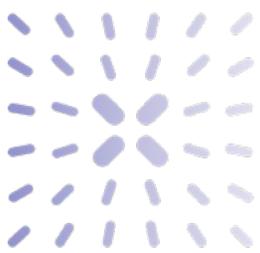
Computing Continuum Fabric for Data Spaces



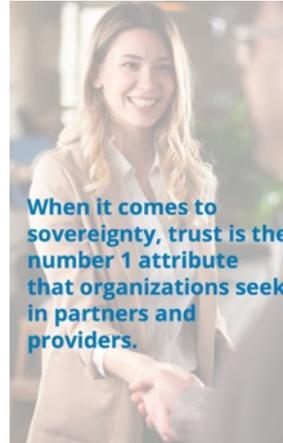
Common EU Data Spaces A Single Market For Data



Do we really need need Gaia-X?...



All impacted! Data Economy is the result of Value Chains Digitalization, achieved through the creation of Common Data Spaces in industrial, social, and natural ecosystems



When it comes to sovereignty, trust is the number 1 attribute that organizations seek in partners and providers.

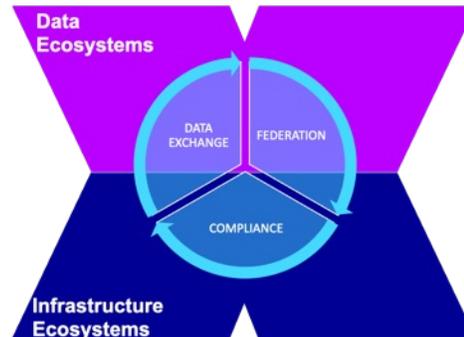
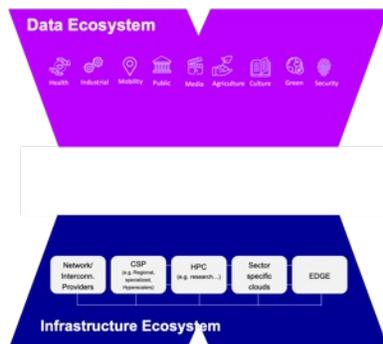
86% of CEOs globally say Digital Sovereignty is their highest priority over the coming years, and that ranks alongside the need to address cybersecurity threats.

Business Benefits

- 71% agree that implementing digital sovereignty prevents unfair competition in digital markets and encourages rules-based partner cooperation within ecosystems.
- 78% believe it improves their ability to shape digital transformation efforts in a self-determined way.
- 76% of organizations around the world say digital sovereignty enhances customer, government, and stakeholder trust in their operations and businesses, and can therefore open access to new global markets.
- 44% of organizations globally believe the top business benefit of using sovereign cloud solutions is a stronger security posture.

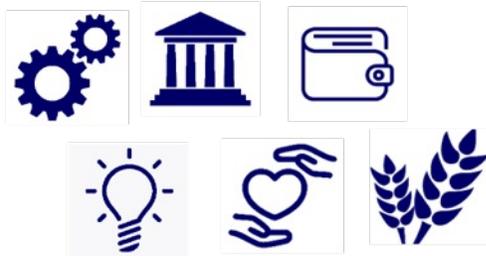


Yes! Data Economy cannot fly without a (missing) common framework of trust enabling the creation of common dataspaces!

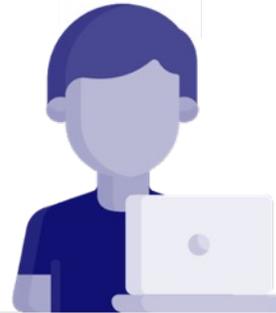


So, isn't Dataspace just a new jargon for Industrial Data-Lakes?... Clear No!

... Industry 4.0 Data Gathering



(Multiple Interfaces, Segregated
Data, Limited Accessibility)
**Technology Enables
Data Gathering**



What's the difference?



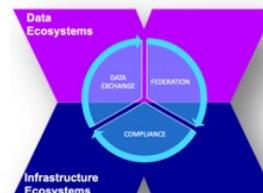
Industry X ... Data Spaces



(Trusted Participants, Verifiable
Credentials, Seamless Data)
**Technology Enables
Trust**

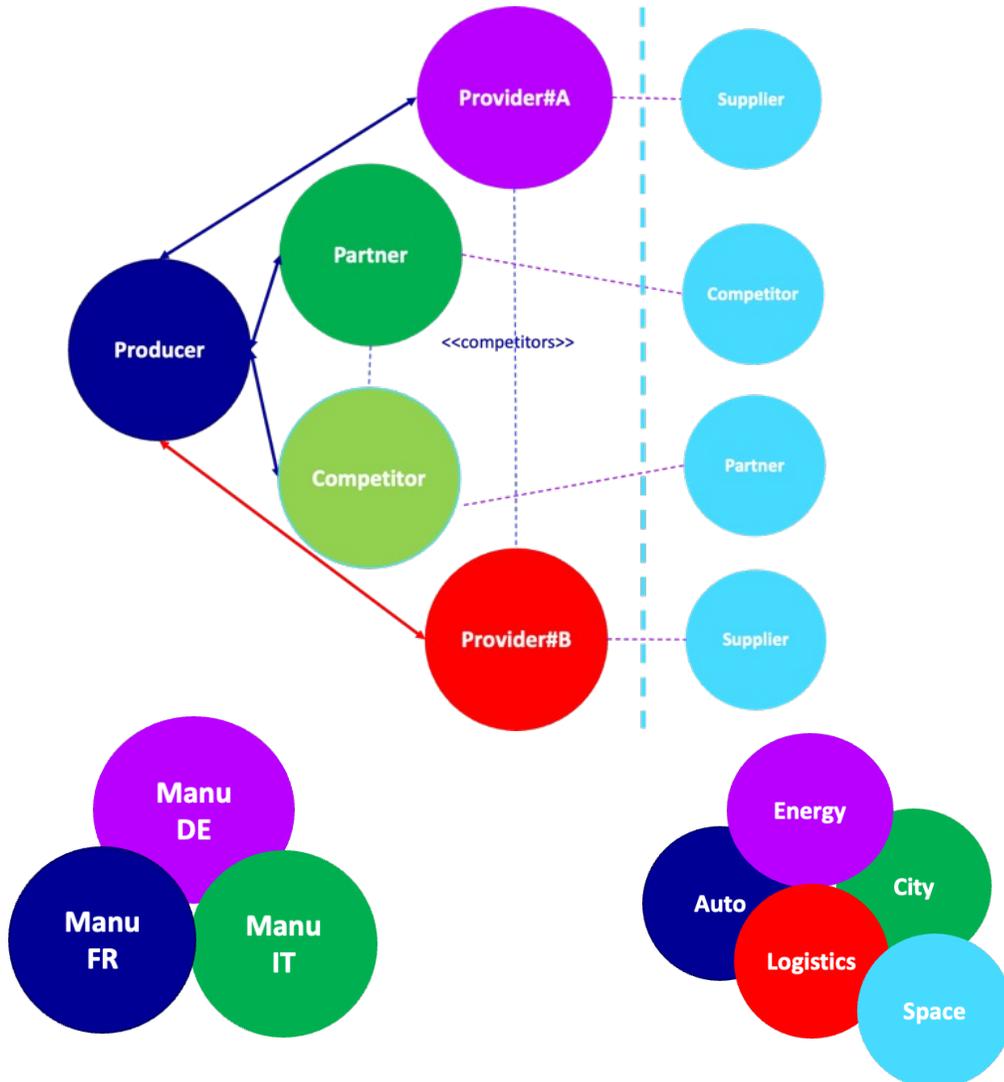
The Solution

**Common
Trust
Framework**



**Common
Trust
Engine**

What's the Dataspace Magic Sauce? 'Trust'



The **Business** Problem:

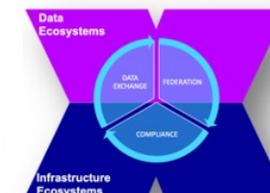
- Identify business use cases
- Sell inside your organization
- Identify potential federation participants
- Build consensus
- Find common business outcomes/interests
- Offer reciprocal and balanced outcomes

The **Technical** Problem:

- **Trusted** participants identity
- **Trusted** federation services credentials
- **Trusted** federation access and usage mechanisms
- **Trusted** federation extensibility mechanisms
- **Trusted** data-infrastructures
- **Trusted** federation governance
- **Trusted** federator role
- Have one-stop-place for **trust** services

The Solution

Common Trust Framework



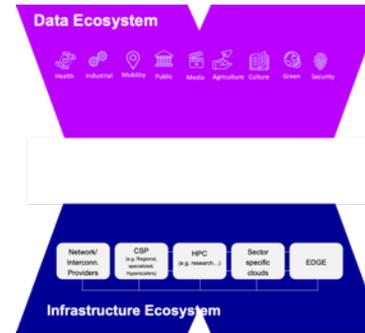
Common Trust Engine

Operationalizing Gaia-X – the GXDCH (Digital Clearing House)



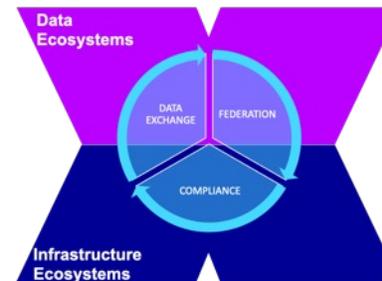
The Gaia-X Problem

Disjoint data ecosystems and disjoint infrastructure ecosystems for lack of a common standard for trustworthy data infrastructures



The Gaia-X Solution

Definition of a **common framework** providing **Compliance, Federation, and Data Exchange** based on commonly agreed upon rules



The Gaia-x Operationalization

Create a network of **nodes of execution** to run the **services defined by the Gaia-X Framework** and make them available for usage to the market



The GXDC is a network access-points to the services defined by the Gaia-X Framework (Compliance, Federation, Data Exchange) and necessary to become part of the Gaia-X Ecosystem

Gaia-X make it happen through projects

The logo for agdatahub consists of the letters "ag" in red and "datahub" in grey.

Agriculture

The logo for Catena-X features a stylized orange and green icon followed by the text "Catena-X" and "Automotive Network" below it.

<https://catena-x.net/en/>

Automotive Supply Chain

The logo for ELINOR-X shows a circular graphic with green and blue segments, followed by the text "ELINOR-X" and "THE URBAN DATA COOPERATIVE" below it.

Urban Data Cooperative

The logo for EONA-X features a stylized blue and yellow icon followed by the text "EONA-X".

Mobility, Transport & Tourism

The logo for omega-x features a stylized Greek letter Omega symbol surrounded by a grid of dots, followed by the text "omega-x".

Energy

The logo for EuPro Gigant features a stylized blue and yellow gear icon followed by the text "EuPro Gigant".

<https://euprogigant.com/en/>

Manufacturing, Industry 4.0

The logo for Mobility Data Space features a geometric wireframe icon followed by the text "Mobility Data Space".

<https://mobility-dataspace.eu/>

Mobility

The logo for SCSN features the letters "SC" in green and "SN" in blue, followed by the text "smart connected supplier network".

<https://smart-connected.nl/en>

Electronics Supply Chain

The logo for Structura-X features a stylized blue tree-like icon followed by the text "Structura-X".

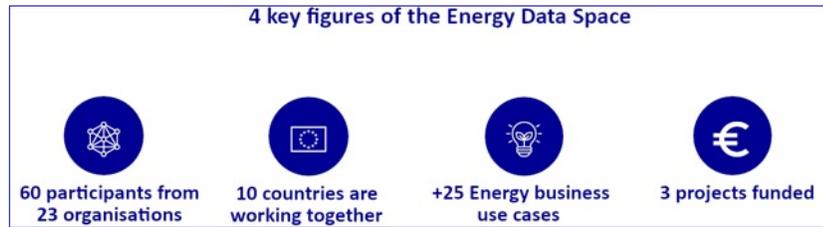
<https://bit.ly/3aJYgZL>

Cloud Services

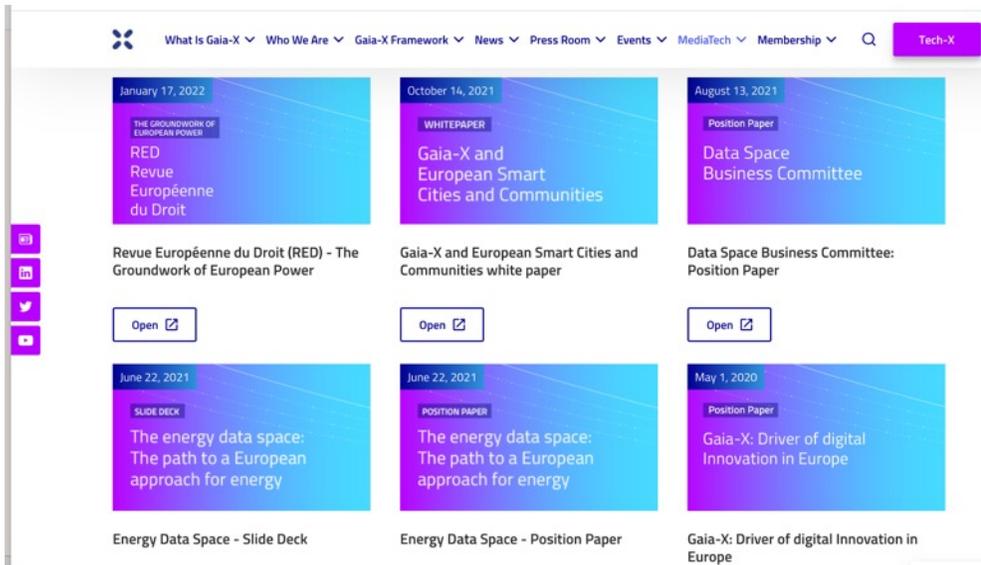
GAIA-X 4 Future Mobility

Mobility, Transport

Gaia-X Energy - Dataspace Community & Projects



One Monumental Goal: Reaching Carbon Neutrality before 2050 fostering digital solutions for energy efficiency while maintaining European Strategic Autonomy in Energy. Gaia-X constitutes an ecosystem for the joint development of use cases at European scale, to foster data sharing, in a trusted, secure and sovereign way, to achieve the objective of energy autonomy and carbon neutrality



Orchestrating an interoperable sovereign federated Multi-vector Energy data space built on open standards and ready for GAia-X

- RENEWABLES
- LOCAL ENERGY COMMUNITIES
- ELECTROMOBILITY
- FLEXIBILITY

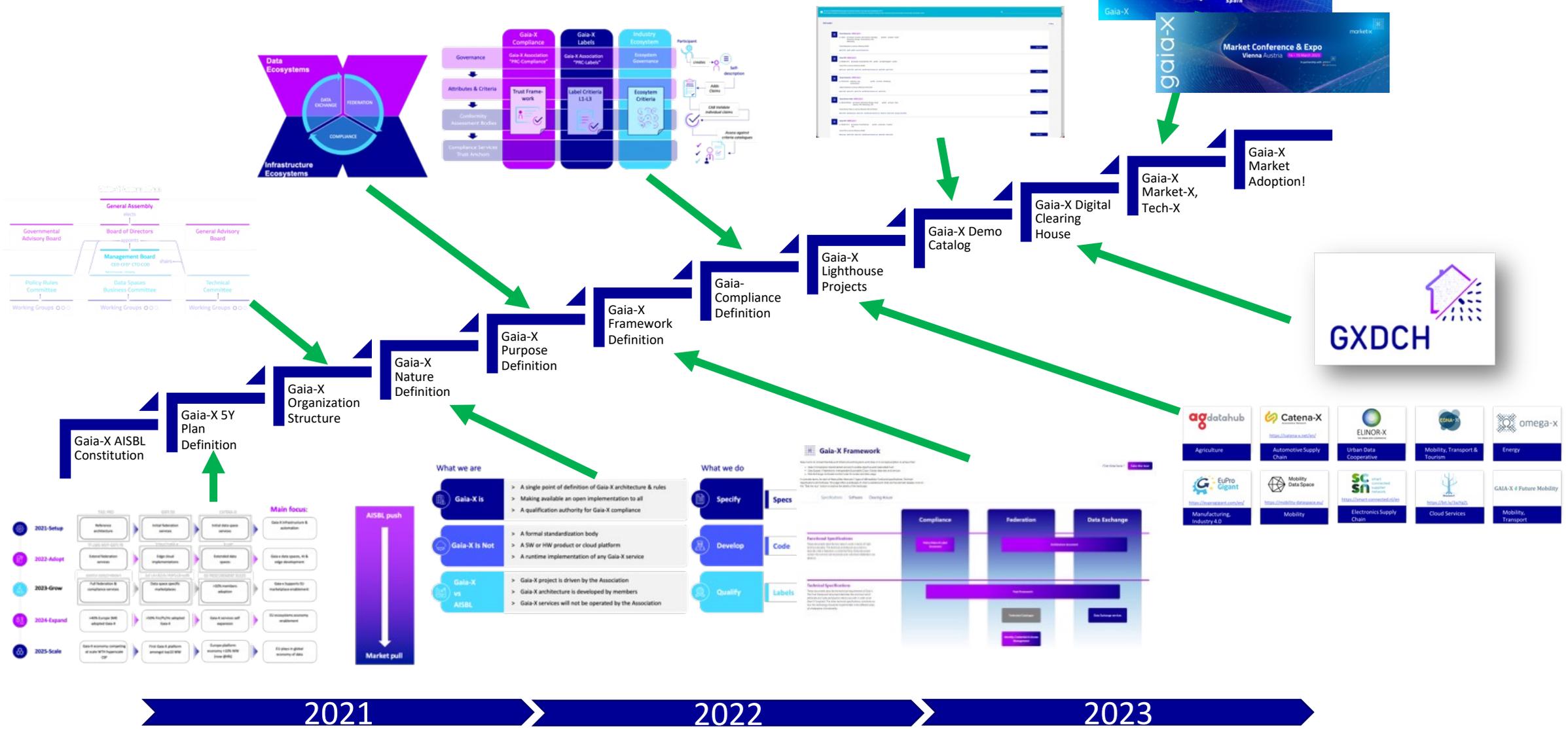
An Energy Data Space to boost the European data economy

Large amounts of valuable data are available in energy systems but are often underused. There is no single data platform, for example, connecting data from the generation, transmission, distribution and consumption domains in Europe's electricity sector or across the various energy vectors – electricity, gas, heat, etc. The barriers also imply the lack of proper mechanisms and policies that ensure secure, sovereign and fair data sharing.

Objective

Relying on European common standards, the EU-funded OMEGA-X project aims to implement an energy data space. This will include federated infrastructure, data marketplace and service marketplace, involving data sharing between different stakeholders and demonstrating its value for concrete energy use cases while guaranteeing scalability and interoperability with other data space initiatives.

Gaia-X From Inception to Market



Market Adoption in Figures

Date	Members	Lighthouses	Hubs	Verticals	Demo Catalog	GXDCH
Summit21	304	0	14	0	0	0
Summit22	347	8	20	16	800	0
Mark-X Tech-X Summit23	376	11	21	16	1573	2

Gaia-X - The European Union for Data Economy!



E.DSO and its members are committed to taking on the vast challenges associated with the realization of the European Energy Union, which builds on the EU's ambitious objectives for energy, climate, security of supply, jobs and growth.

