


# Gaia-X State of Play

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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**

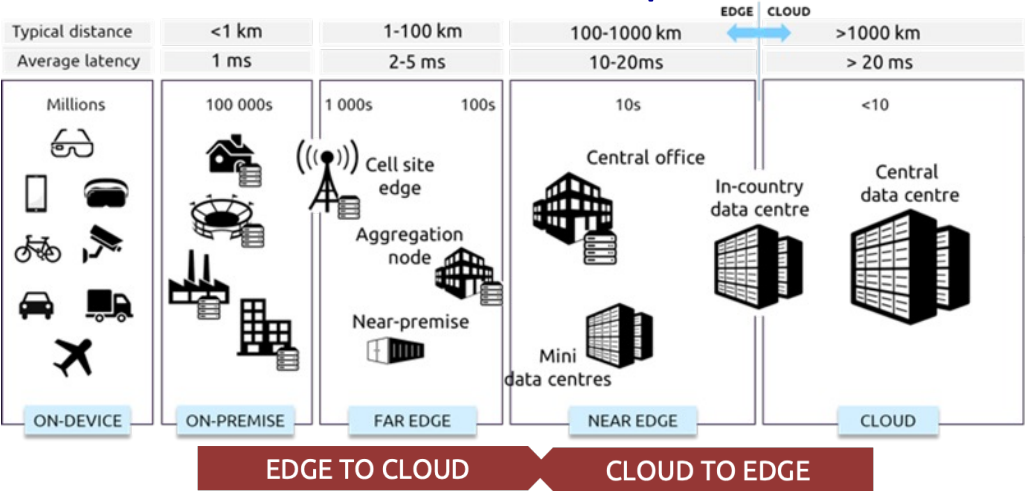
Want to learn more about Gaia-X? [Click here.](#)

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

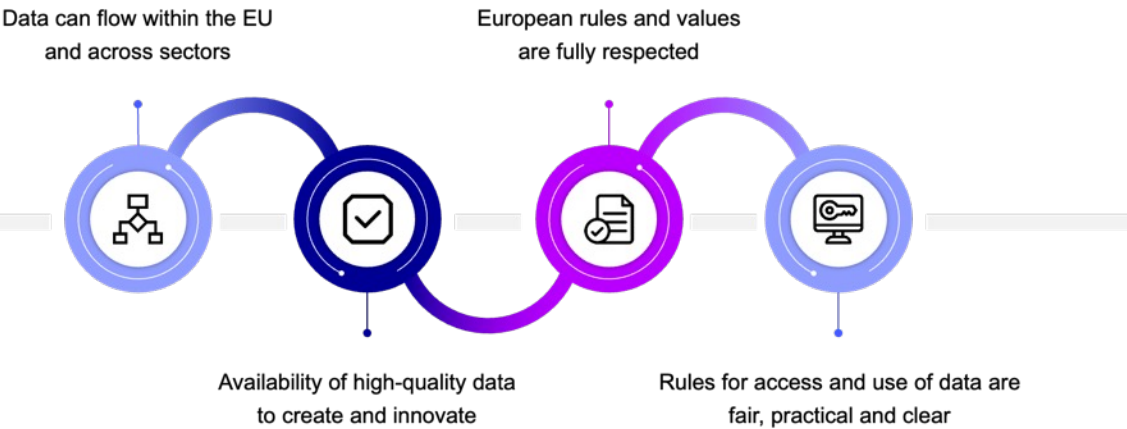
# Gaia-X Vs European Data Strategy



## Computing Continuum Fabric for Data Spaces

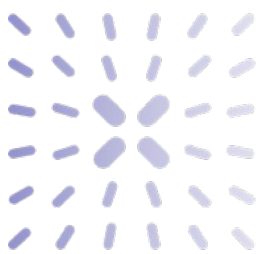


## Common EU Data Spaces A Single Market For Data

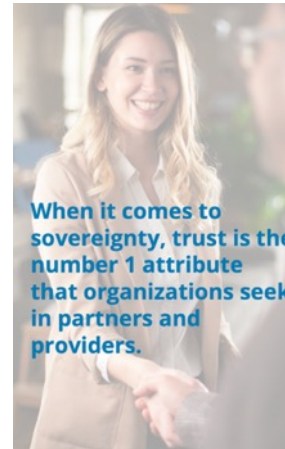


Source: European Commission

# 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



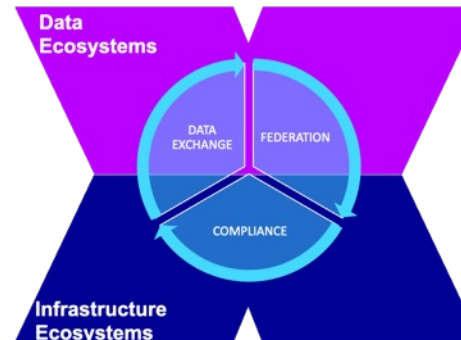
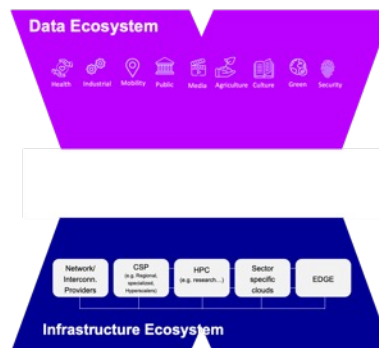
**86%** of CEOs globally say Digital Sovereignty is their highest priority over the coming years, and that ranks alongside the need to address cybersecurity threats.

## Business Benefits

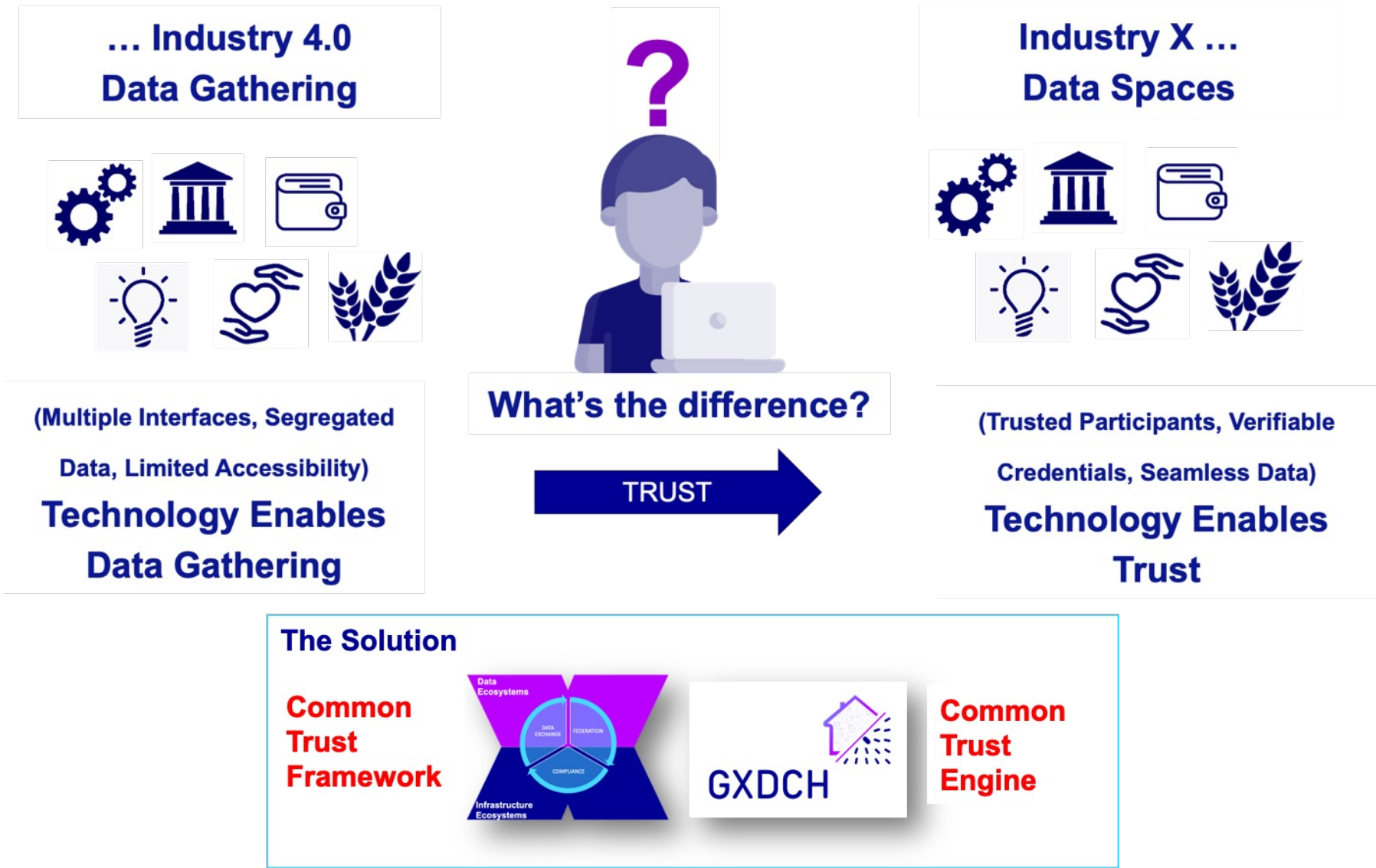
- 71%** agree that implementing digital sovereignty prevents unfair competition in digital markets and encourages rules-based partner cooperation within ecosystems.
- 78%** believe it improves their ability to shape digital transformation efforts in a self-determined way.
- 76%** of organizations around 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.

IDC

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

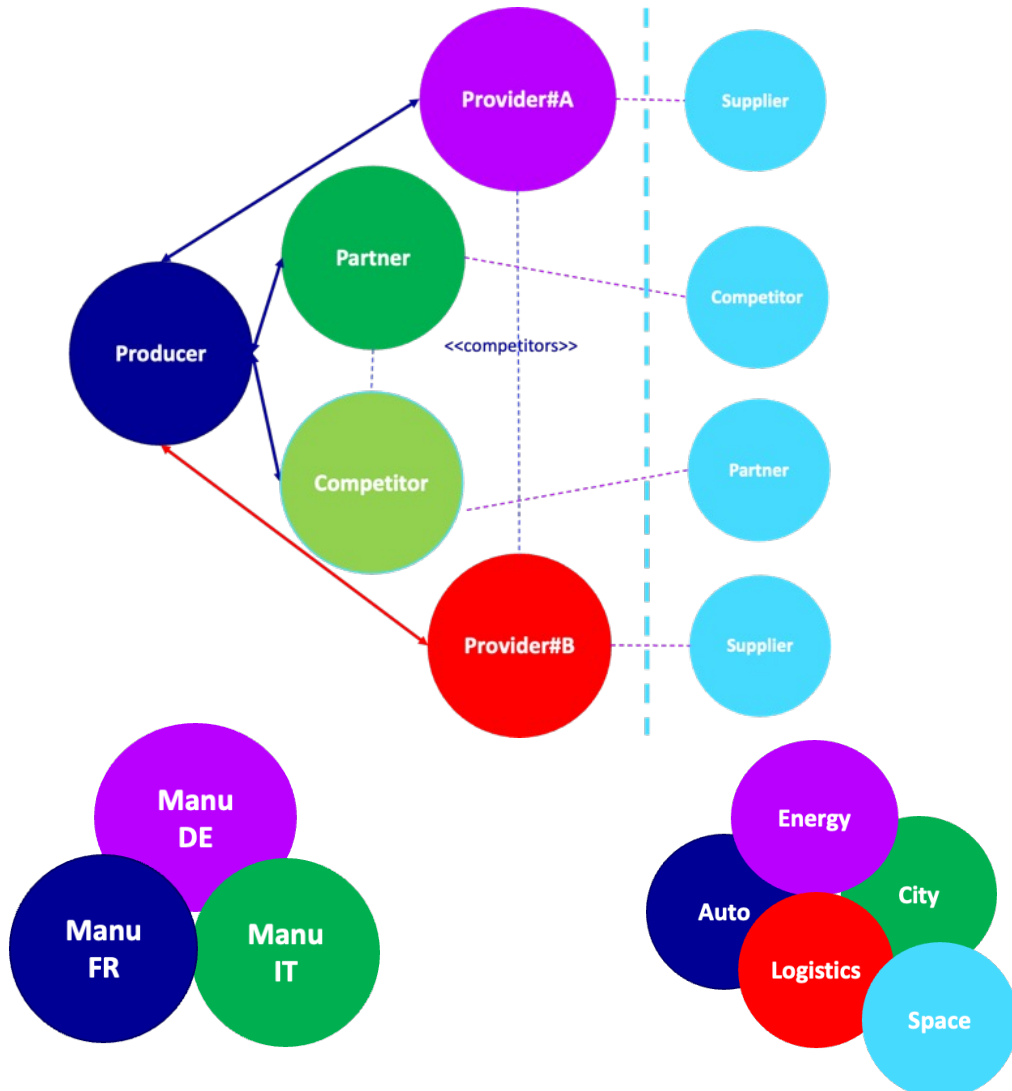


# So, isn't Dataspace just a new jargon for Industrial Data-Lakes?... Clear No!





# What's the Dataspace Magic Sauce? 'Trust'



## The **Business** Problem:

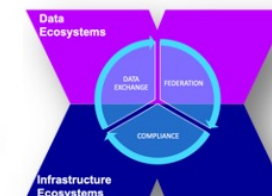
- Identify business use cases
- Sell inside your organization
- Identify potential federation participants
- Build consensus
- Find common business outcomes/interests
- Offer reciprocal and balanced outcomes

## The **Technical** Problem:

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

## The Solution

**Common  
Trust  
Framework**



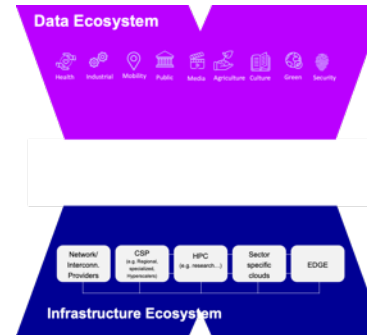
**Common  
Trust  
Engine**

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



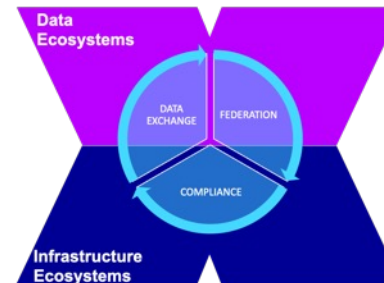
## The Gaia-X Problem

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 GXDCH 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



agdatahub

Agriculture



Catena-X  
Automotive Network

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

Automotive Supply Chain



ELINOR-X  
THE URBAN DATA COOPERATIVE

Urban Data Cooperative



EONA-X

Mobility, Transport & Tourism



omega-x

Energy



EuPro Gigant

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

Manufacturing, Industry 4.0



Mobility Data Space

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

Mobility



smart connected supplier network

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

Electronics Supply Chain



Structura-X

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

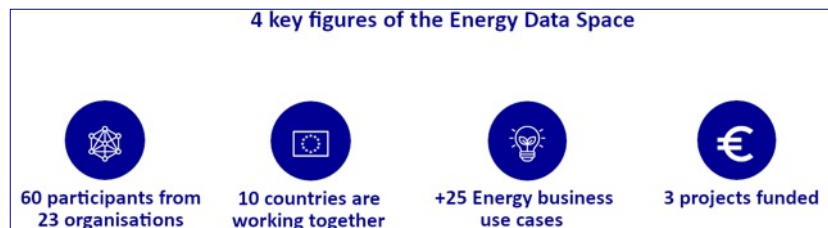
Cloud Services

GAIA-X 4 Future Mobility

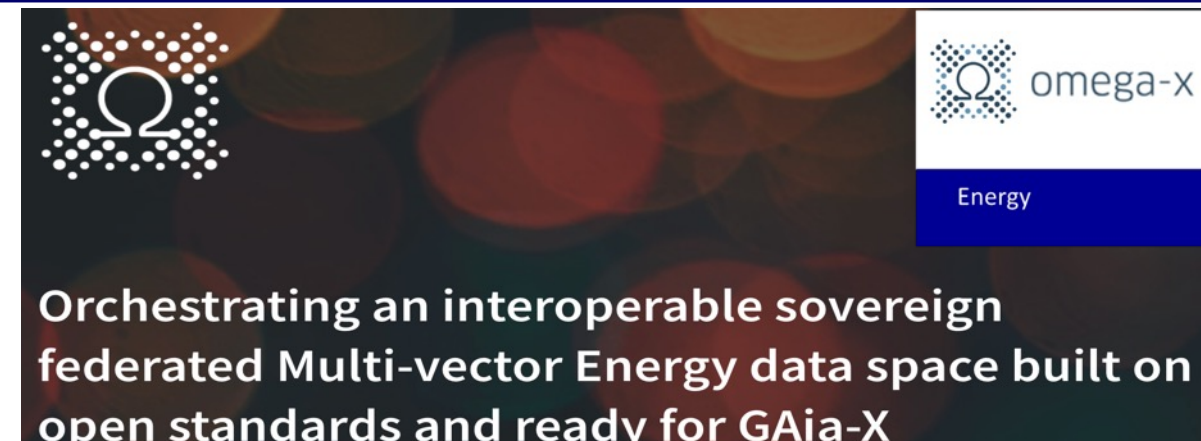
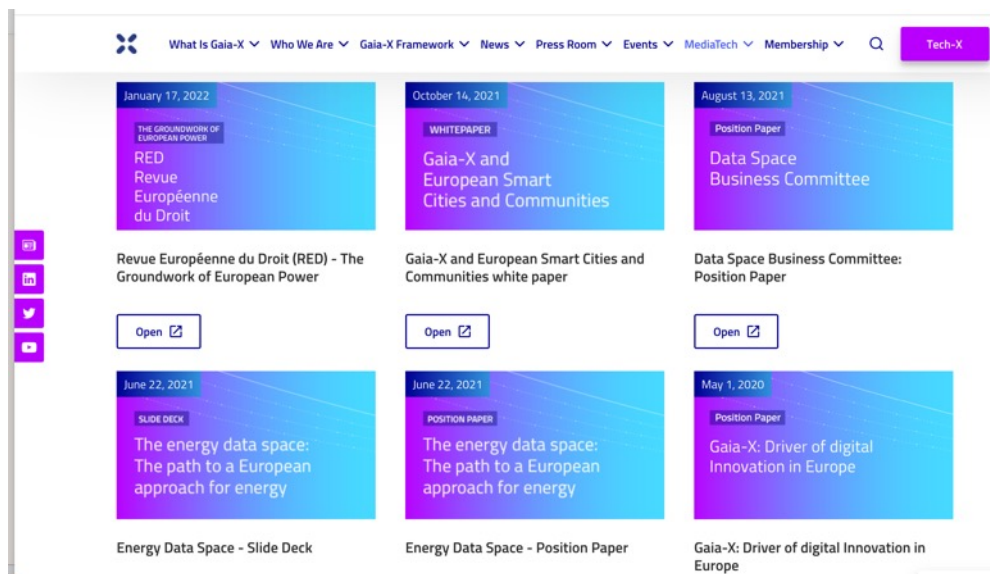
Mobility, Transport



# 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



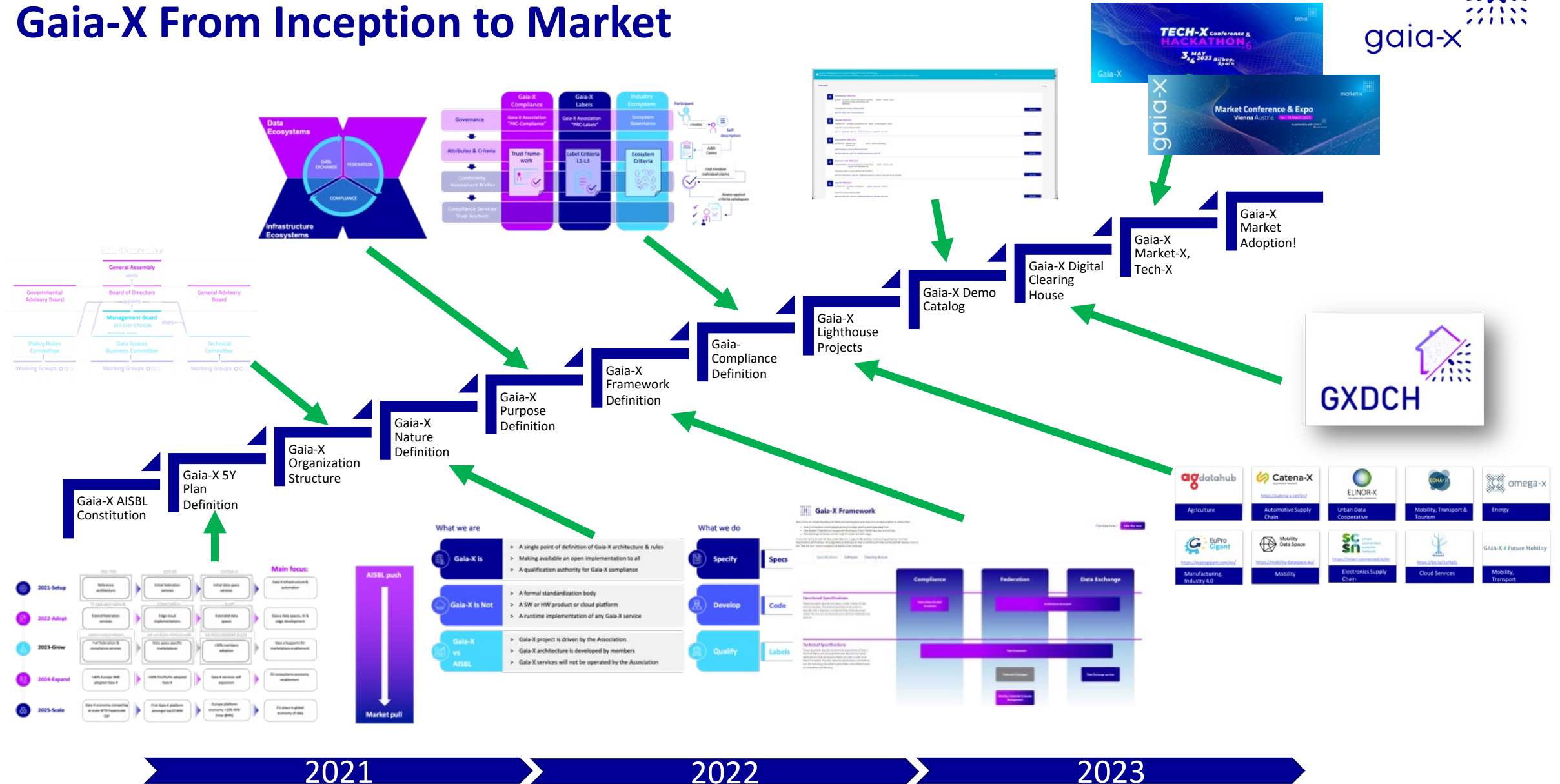
## An Energy Data Space to boost the European data economy

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.

