

Gaia-X – Zoom-in the Big Picture of European Digital Ecosystem Future

Francesco Bonfiglio

Chief Executive Officer - Gaia-X Association



Technology Business Vs Digital Economy...

Who is more impacted by this disruption?

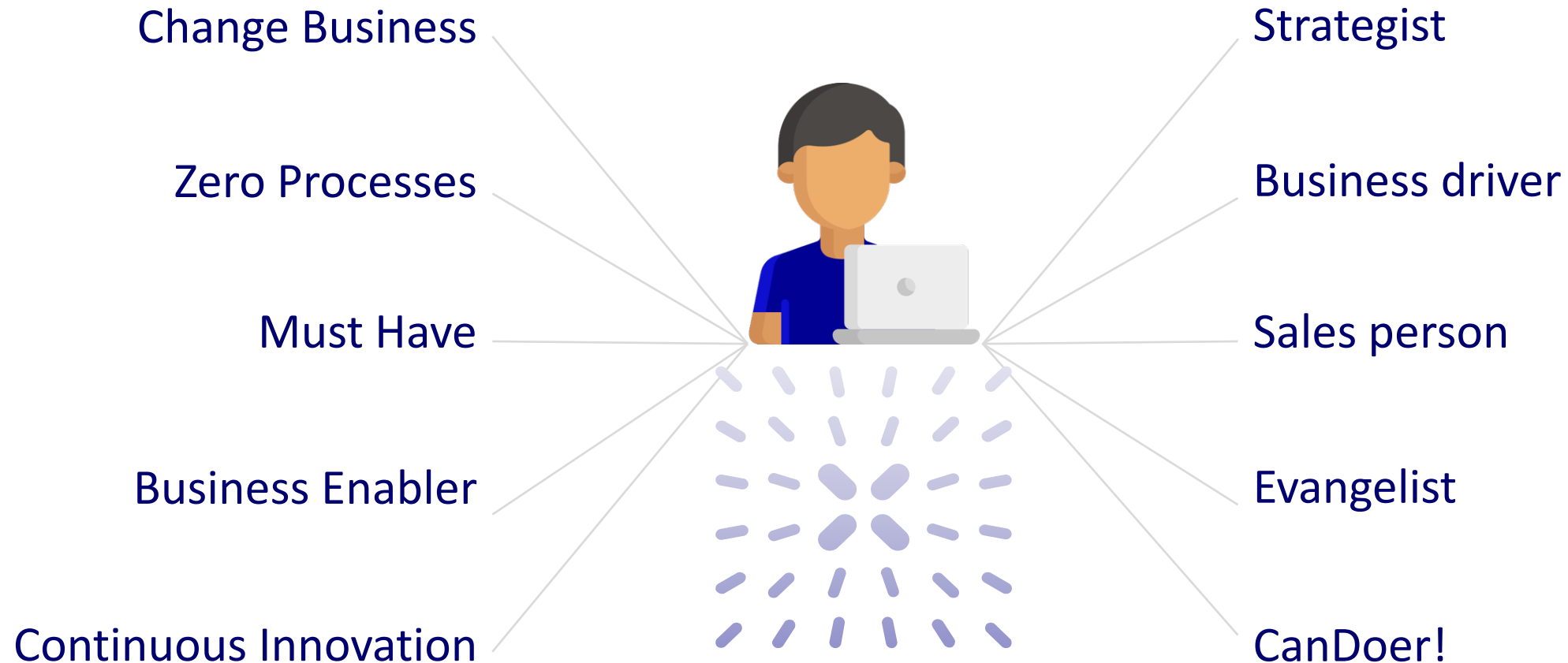


All are impacted! The new Digital Economy is pervasive and driven by **Data Spaces, the digitalization of the value chains,** in economical, social, political, and natural ecosystems.

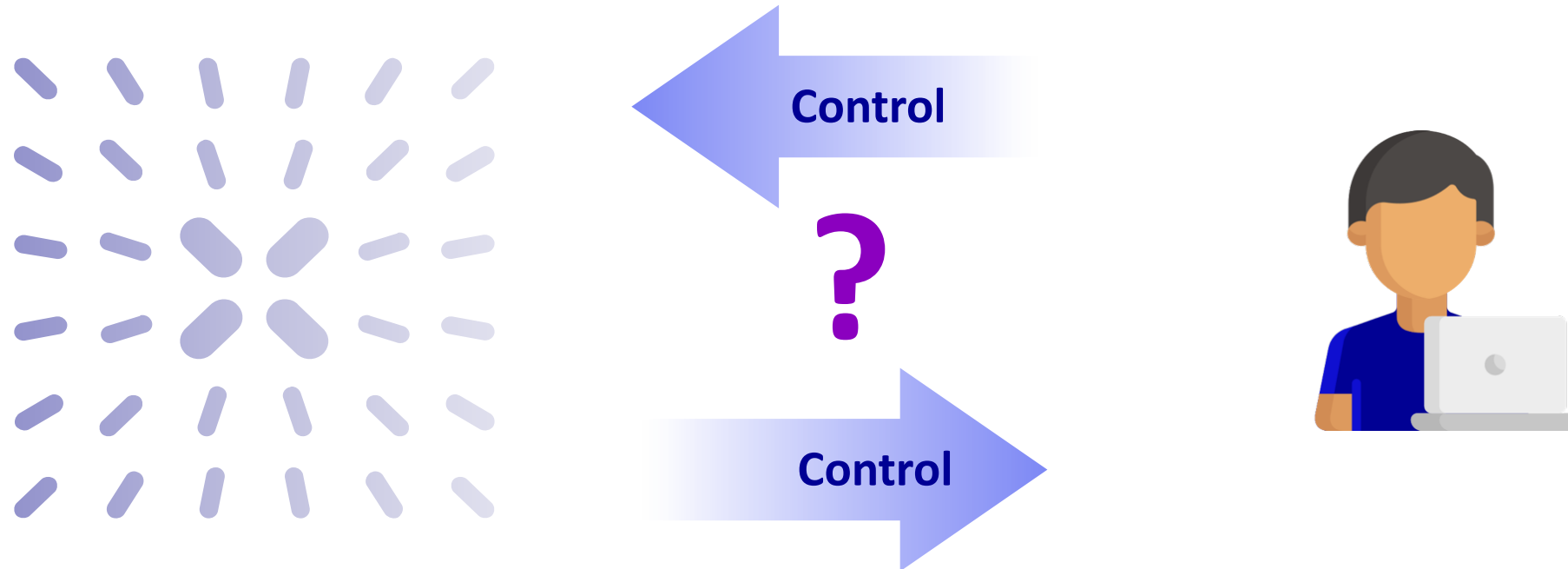
Why we need a new role for IT?

THE NEW ROLE OF TECHNOLOGY

THE NEW ROLE OF IT EXECUTIVE



Are we in Control of, or Controlled by Technology?...



The EU Data Strategy



Feb. 2020

**European Strategy
for Data**

aims to build a single
market for data



May 2020

**Recovery and
Resilience Facility**

20% Digital
EU Flagship “Scale-up”



Oct. 2020

**Member States
Declaration for
European cloud**



March 2021

**Digital Decade
Strategy**

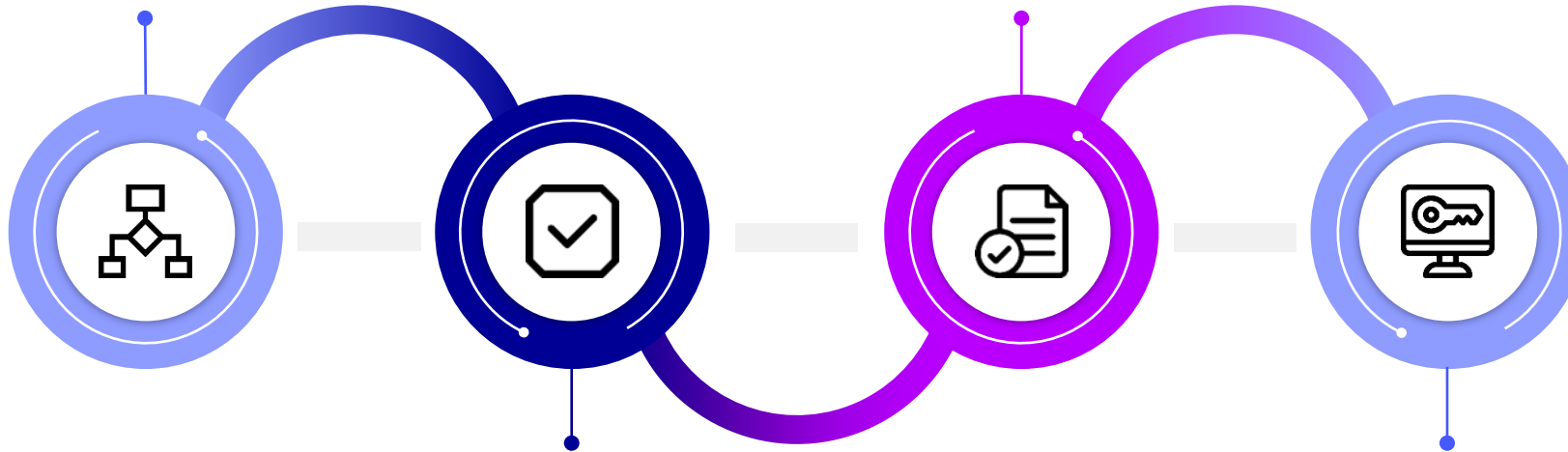
sets targets on edge
and cloud for 2030

European Strategy For Data

A Common European Data Space, A Single Market For Data

Data can flow within the EU
and across sectors

European rules and values
are fully respected



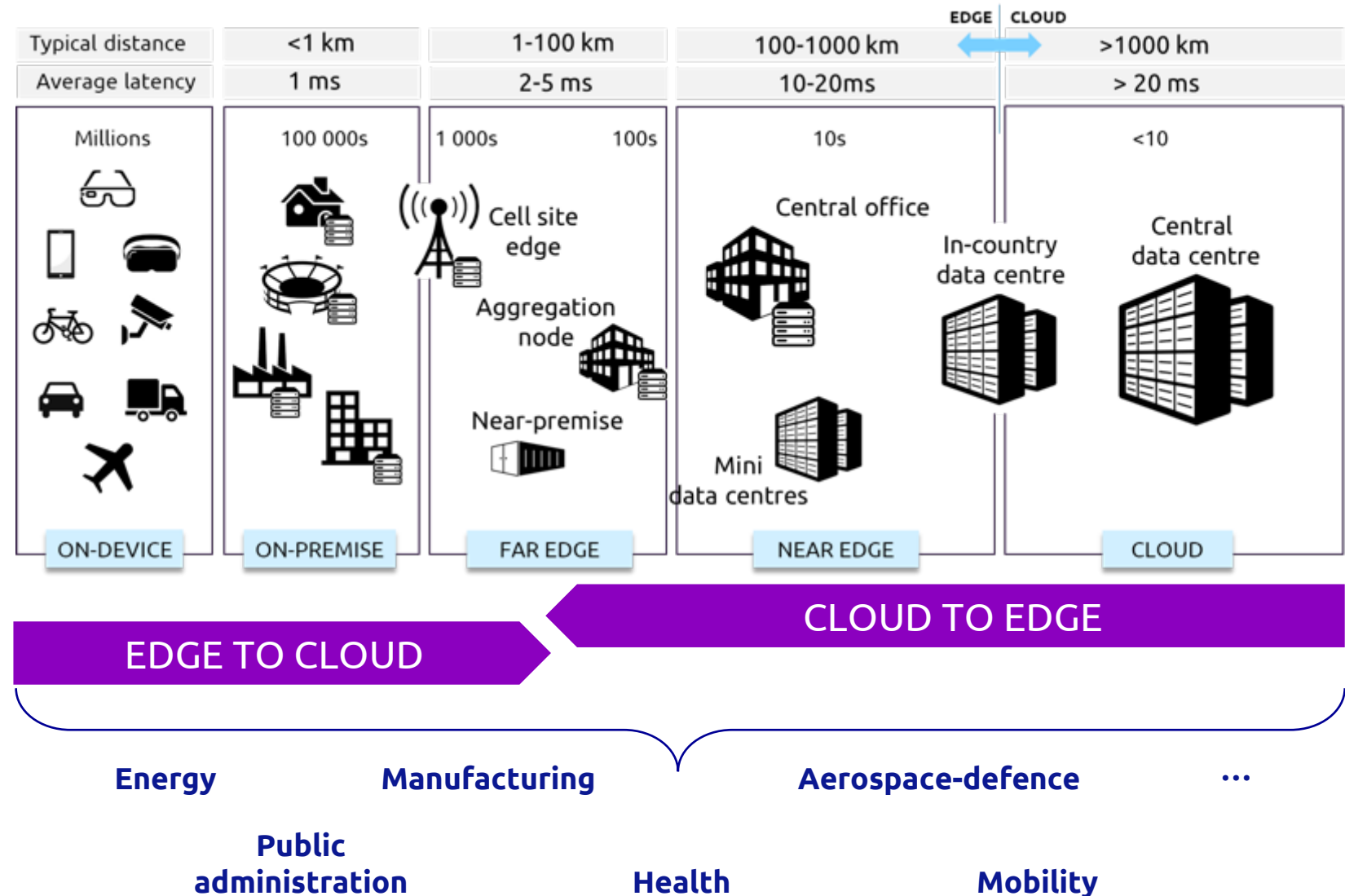
Availability of high-quality data
to create and innovate

Rules for access and use of data are
fair, practical and clear

Digital Decade - computing continuum by 2030

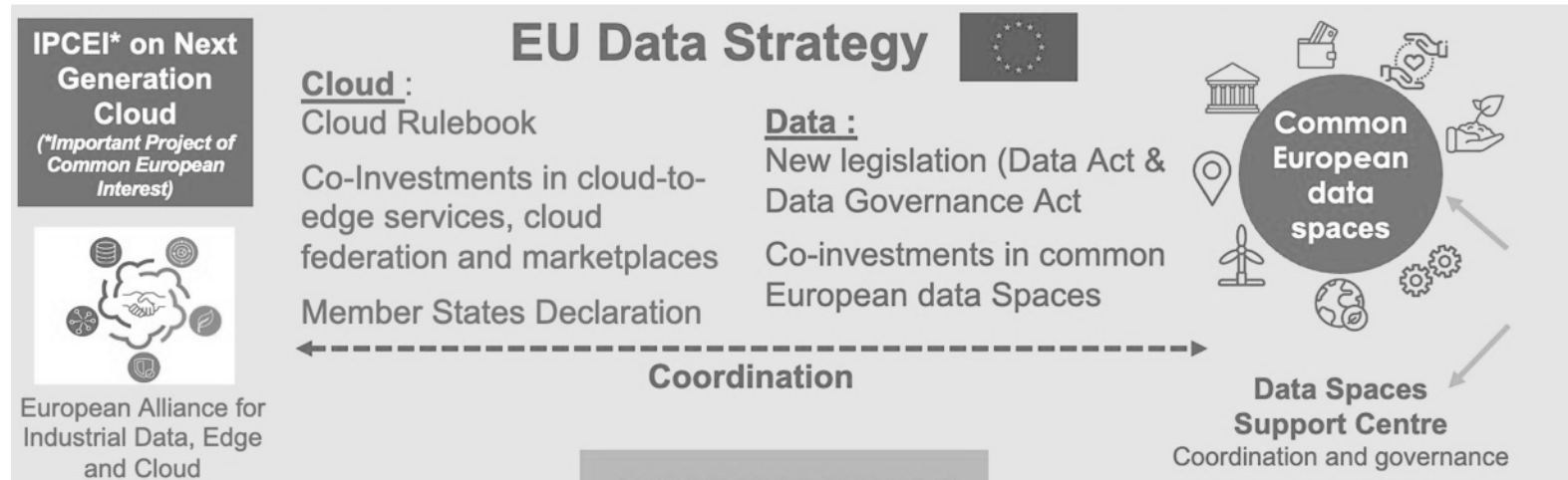


- ✓ >10.000 edge nodes by 2030
- ✓ 75% of cloud and of uptake by EU enterprises in 2030



How does Gaia-X fit into it

Gaia-X vs. European Data Strategy



Federation & interoperability standards

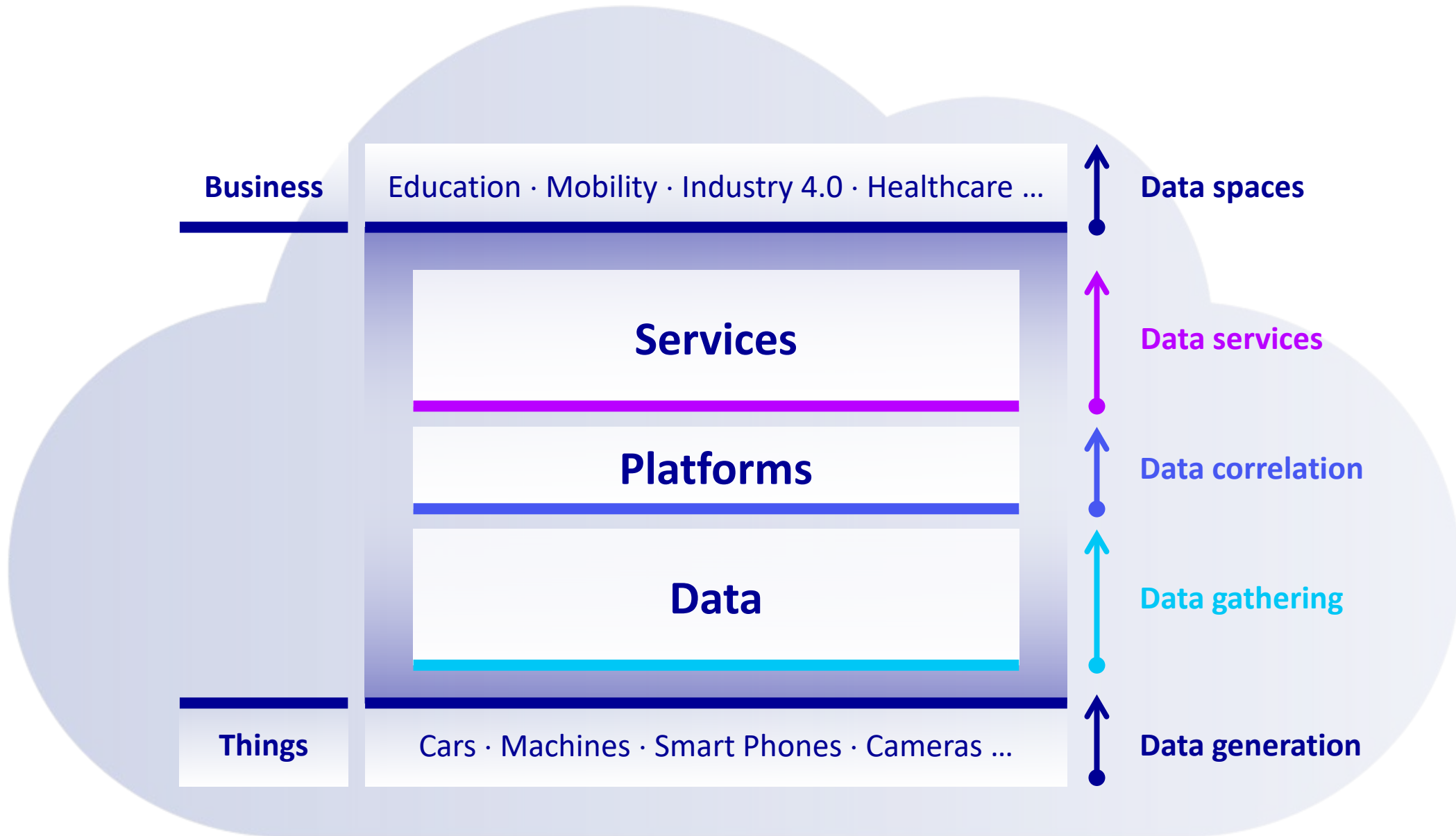
Complementing & integrating private and public initiatives, e.g.:

Use cases; technical architecture






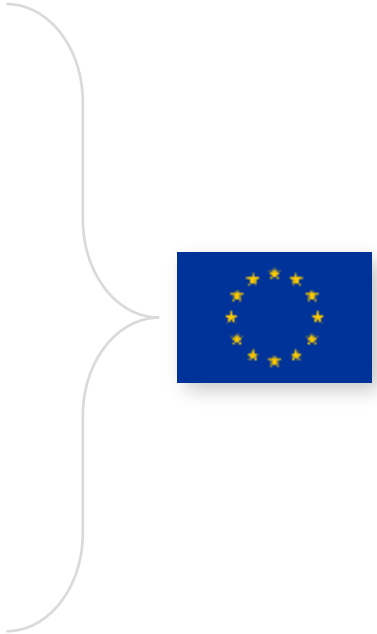
Why Gaia-X?

Cloud enables data economy



What are we talking about?

Data Business		Situation
Data platforms	100B\$ TAM (33% AWS) in 2019	
Data services	829B€ EU data economy by 2025	
Data access	40B Smart devices by 2025 (+13%YoY)	

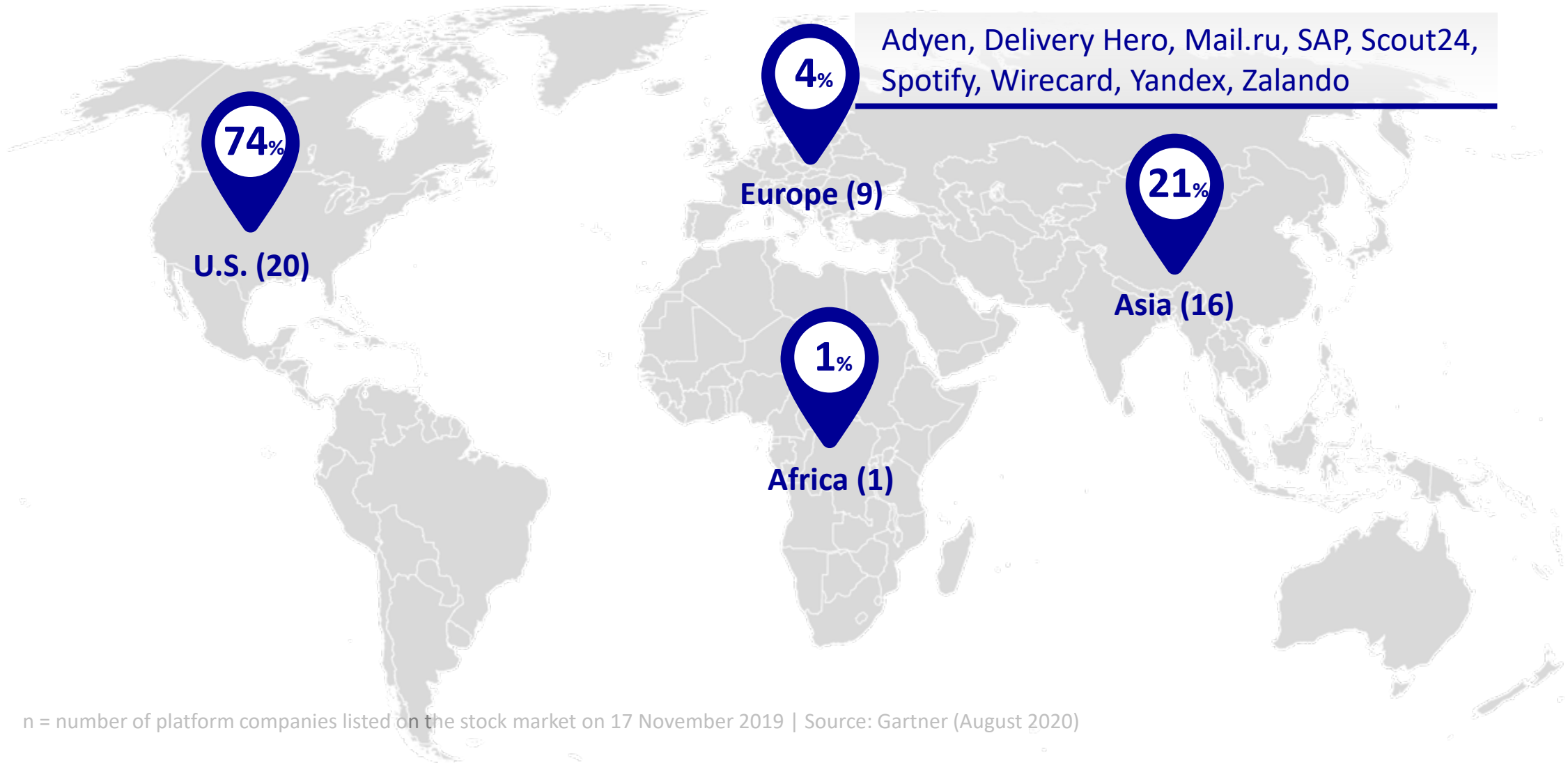


Sources: European Commission (2020); Statista (2019); IoT Analytics (2018) | NB: Following depiction and interpretation of German Data by B. Otto

Where Do We Stand?

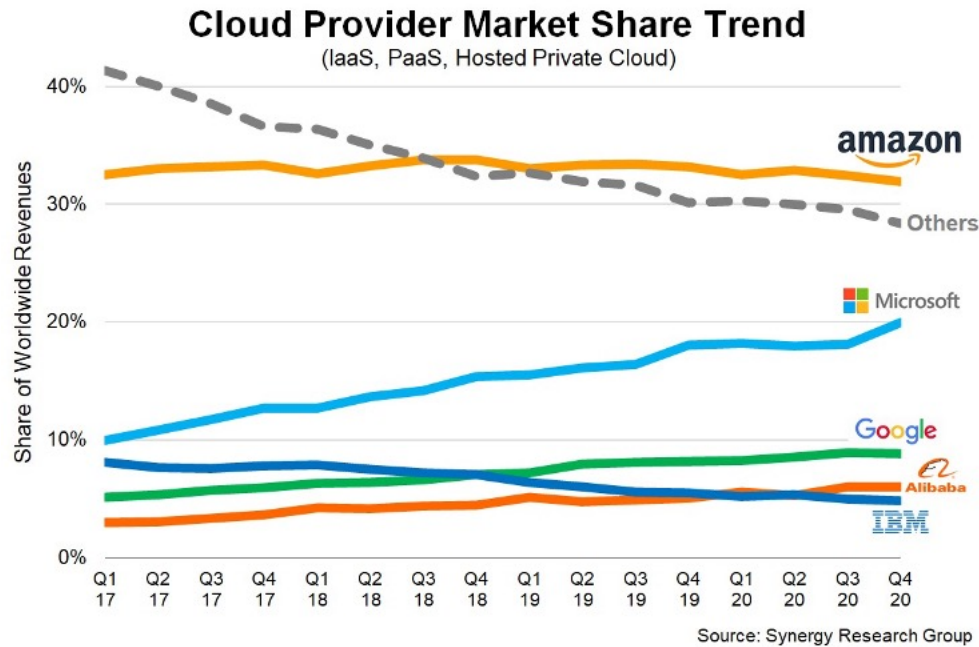
The European Contribution to the Platform Economy

Platform Economy – Market Capitalisation Value Distribution of Companies

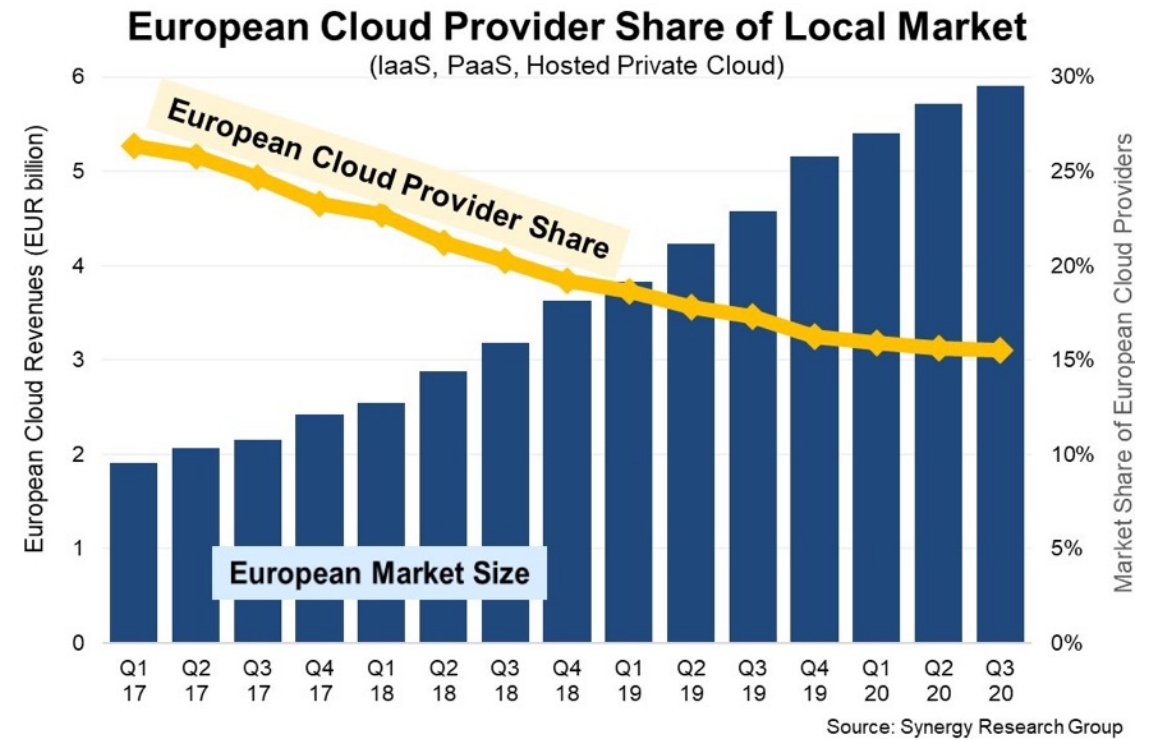


Cloud market trends

- Globally



- In Europe



Supply

- EU cloud market grows threefold (over EUR 23bn for 2020)
- EU CSPs' share still declines (from 26% in '17 to <16% in '20)
- 3 US CSPs hold 66% of the total market share
- The biggest EU provider has 2% of the EU market

Demand

- 36% of EU enterprises use “basic” cloud services
- Large legacy and on premises footprint (>70% of data/apps)
- Strong dependency from ‘proprietary’ models (lock-in)
- Demand for switchable services with more user control

Gaia-X, an urgent move for a European Future!



EU Digital Market 2025

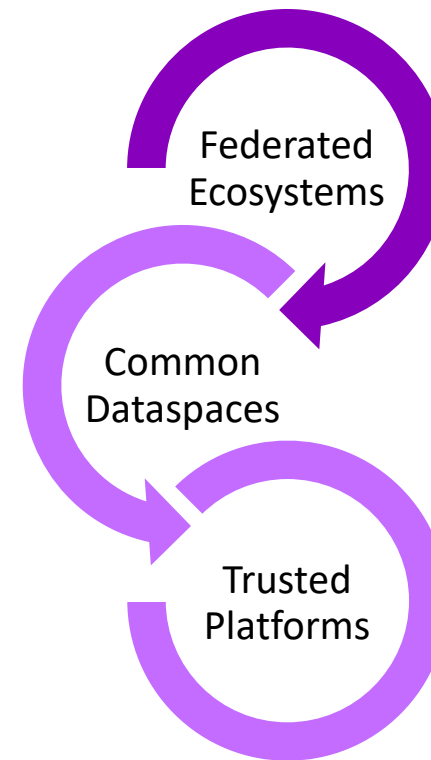
- EU CSP Providers Market Share = <10%
- EU TAM on Data Platforms = 8-10% EU GDP
- EU Economy Footprint Largely SME = >80%

EU Economy 2025

- Public Services dependency on Digital Platforms = >70%
- Product/Service Value Dependent on Data = 50-70%
- Disjoint Data across Value Chains = >70%

EU Sovereignty in 2025:

- No Political Sovereignty w/o Digital Sovereignty
- No Economy Drive w/o Digital Sovereignty
- No Sovereignty with 'Private' or 'Autocratic' Platforms



What is Gaia-X?

—
Our story in short

About Gaia-X – The elevator pitch



Established as a not-for-profit Association in 2021, Gaia-X brings together a broad range of organisations (large companies and SMEs, developers and users of technology, industrial players, and members of academia) around one common goal: to boost the European data economy by enabling the creation of common data spaces, in full alignment with the objectives of the EU's data strategy. To this end, Gaia-X focuses on building a common standard for an open, transparent, and secure digital ecosystem that will serve as the basis for a new model of data infrastructure guaranteeing safe and trustworthy data exchange.

Open to anyone, but aligned with 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 in the European Single Market, reducing the dependency from non-controllable technologies while reflecting Europe's need for data and cloud sovereignty.

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

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

Our Reason - From traditional Cloud to Gaia-X



Concentrated

Proprietary

Opaque



Distributed

Open

Transparent



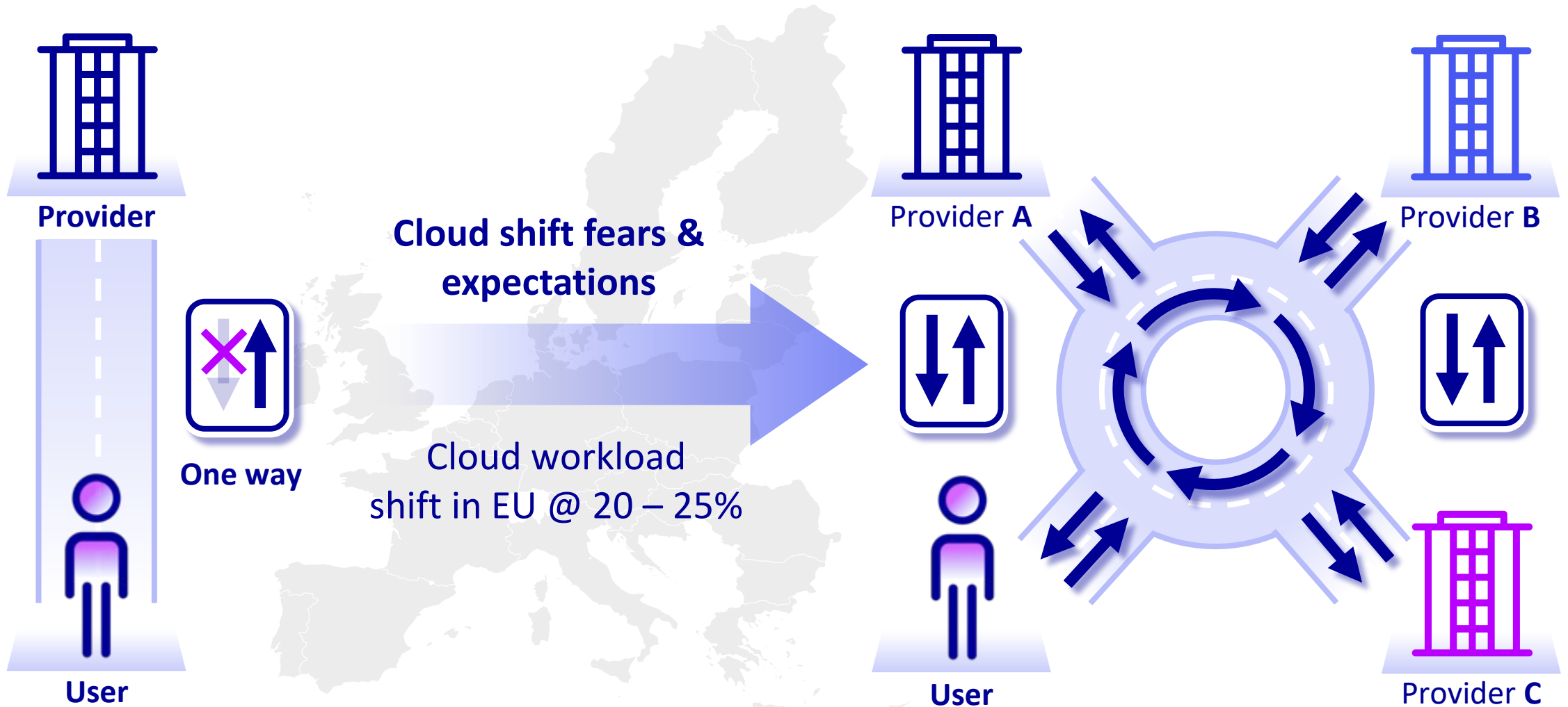
Users LET Control

Trust & Sovereignty



Users GET Control

From one-way to free & sovereign



The existing Split X Model

Disjoint Data & Infrastructures Ecosystems



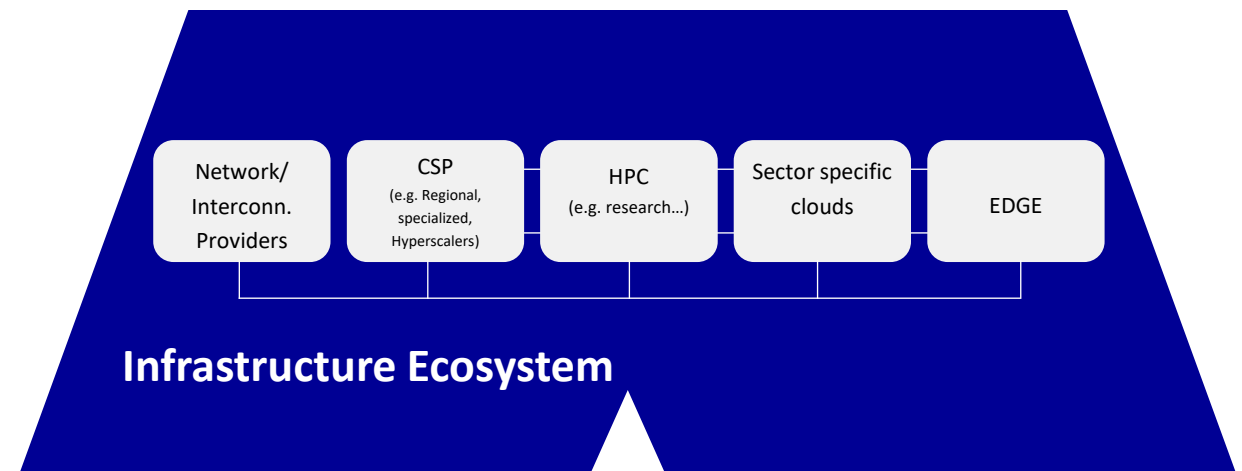
Data

Untapped, fragmented, disjoint, no secure exchange mechanism








infrastructures

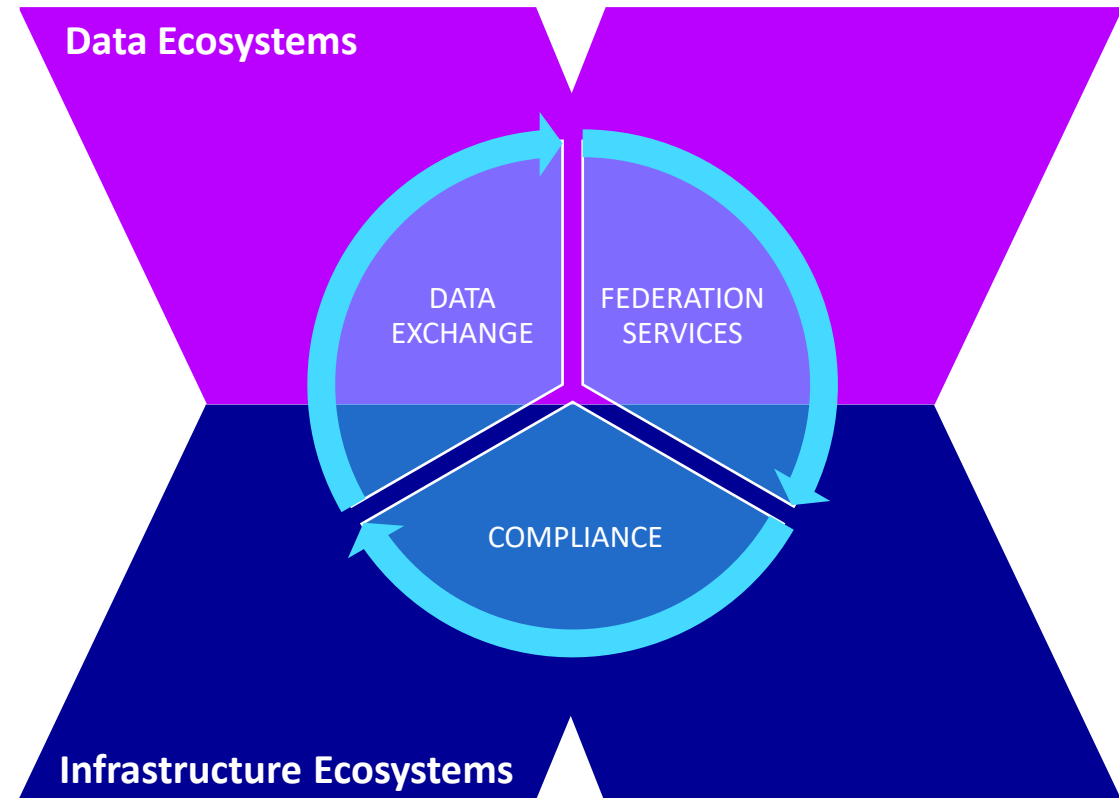
Segregated, non-reversible, non-interoperable, closed architectures, private standards



Our X Model

Connecting Data - Infrastructures Ecosystems

-  **Advanced Services**
New (Cross-) Sector Innovations / Applications build from service composition.
-  **Data Spaces / Federations**
Interoperable & portable (Cross-) Sector data-sets and services.
-  **Data Exchange**
Anchored contract rules for access and data usage.
-  **Gaia-X Compliance**
Decentralized services to enable objective and measurable trust.
-  **Label framework**
Gaia-X and ecosystem specific Labels to ease market adoption through autonomy and self-determination.



What We Are – What Is Gaia-X. What It Does



What Gaia-X Is Or Is Not

Gaia-X Is

- > A single point of definition of Gaia-X architecture & rules
- > Making available an open implementation to all
- > A qualification authority for Gaia-X compliance

Gaia-X Is Not

- > A formal standardization body
- > A SW or HW product or cloud platform
- > A runtime implementation of any Gaia-X service

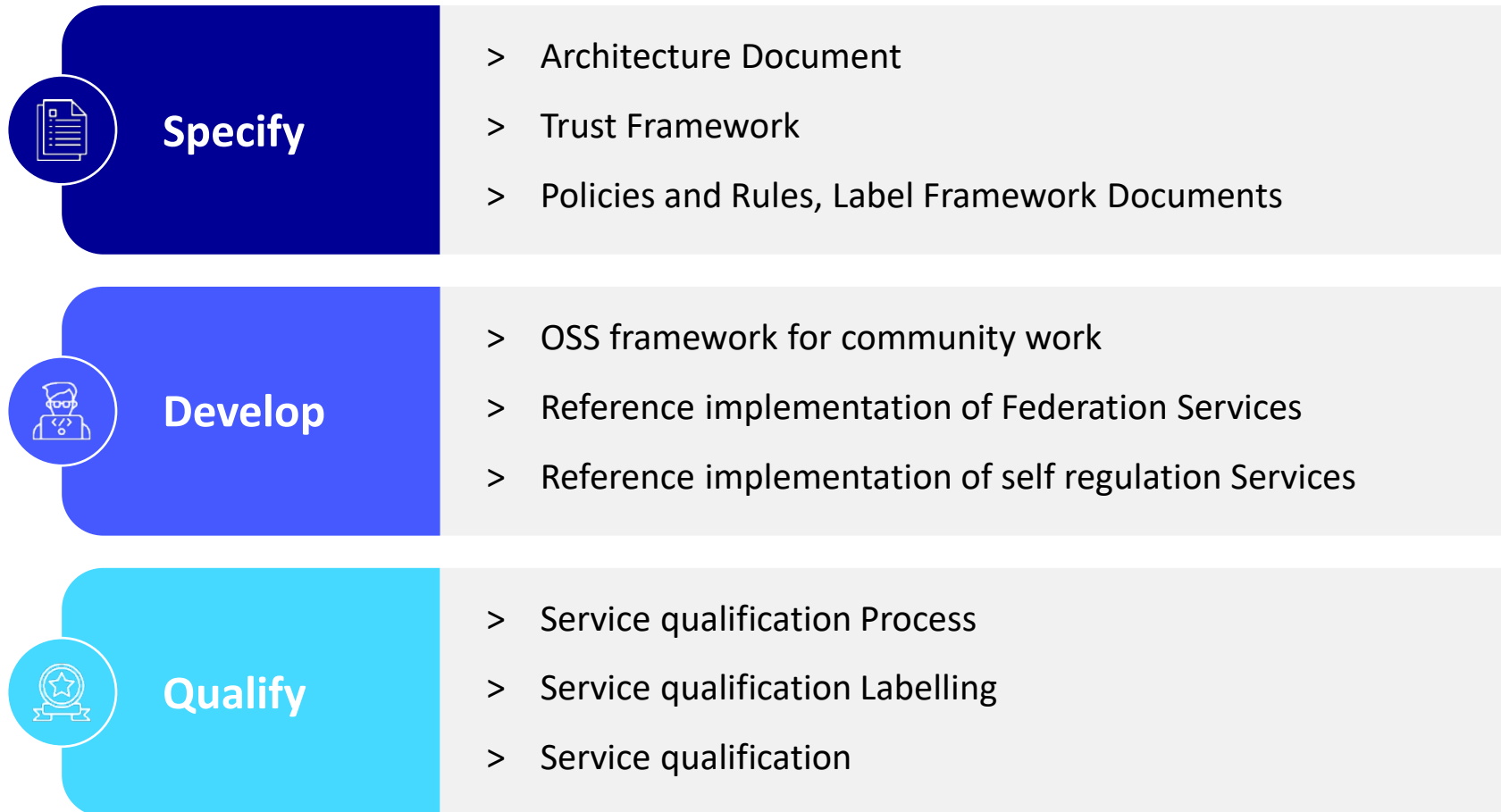
Gaia-X vs. Association

- > Gaia-X project is driven by the Association
- > Gaia-X architecture is developed by the Association members
- > Gaia-X services will not be operated by the Association

(*) AISBL is an independent single point of truth in the determination of a Gaia-X compliancy, but the Association itself will not host or run directly any service. Qualification and compliance will be verified through decentralized mechanisms of digital trust and consensus distributed across the network of Gaia-X nodes (i.e. AISBL stands to Gaia-X like a Registrar to the Internet)

What We Do – Gaia-X Three Deliverable Types

The Gaia-X Deliverables



Specs

Code

Labels

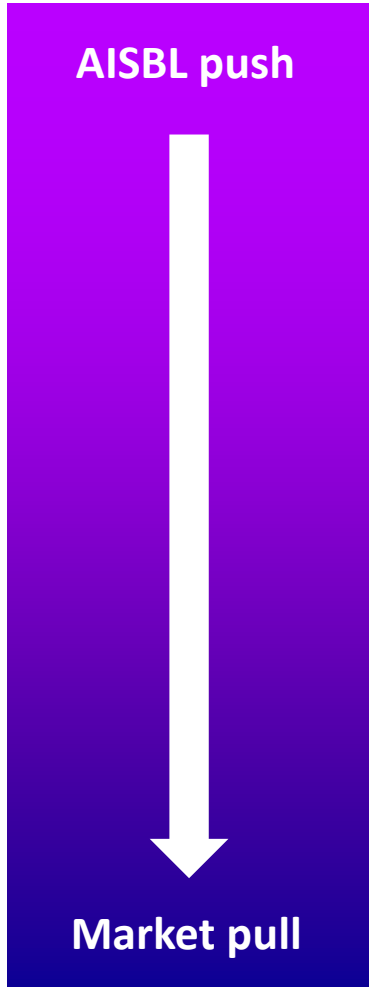
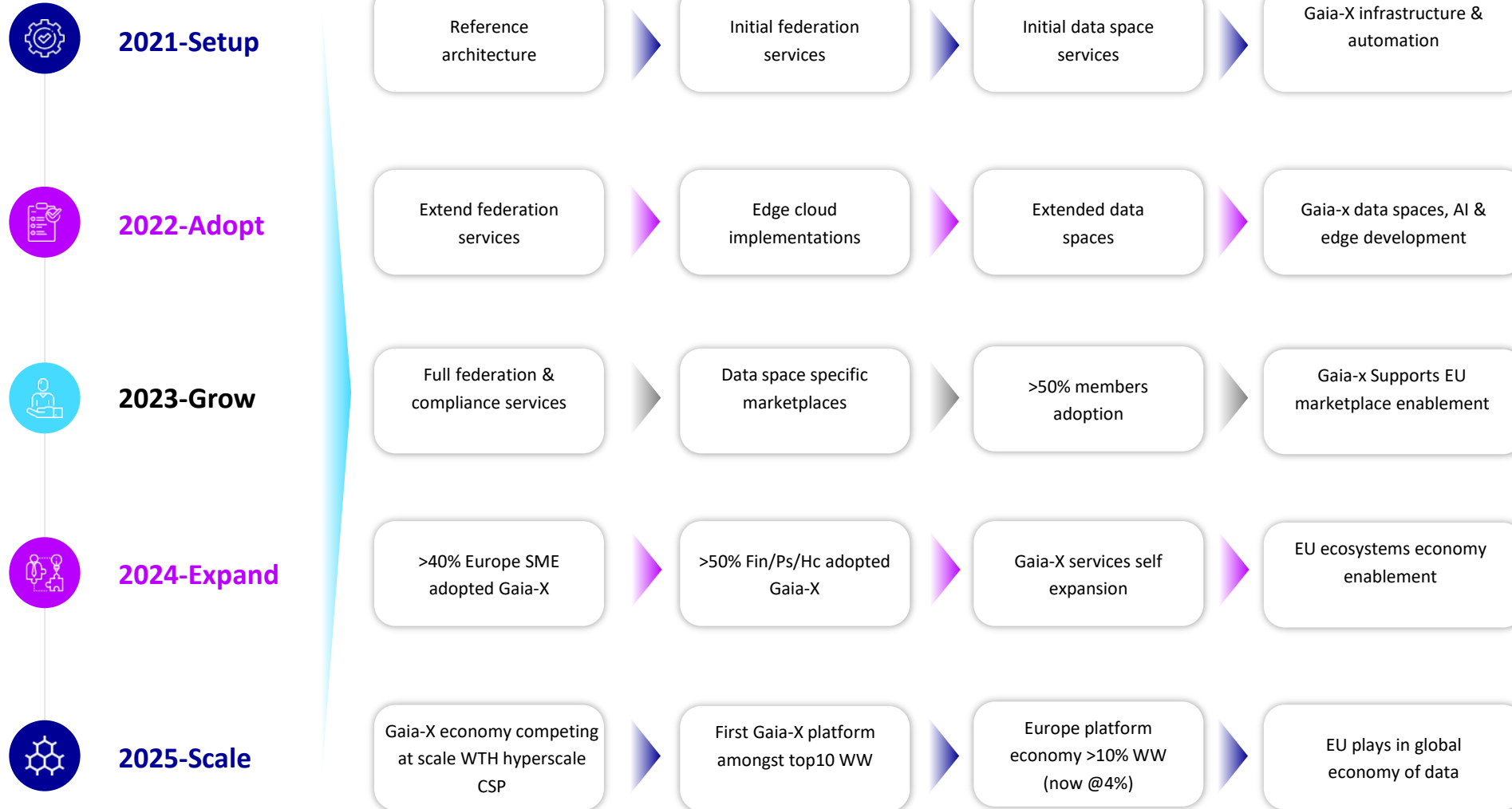
Gaia-X Roadmap



The 5 Years Outlook



Main focus:



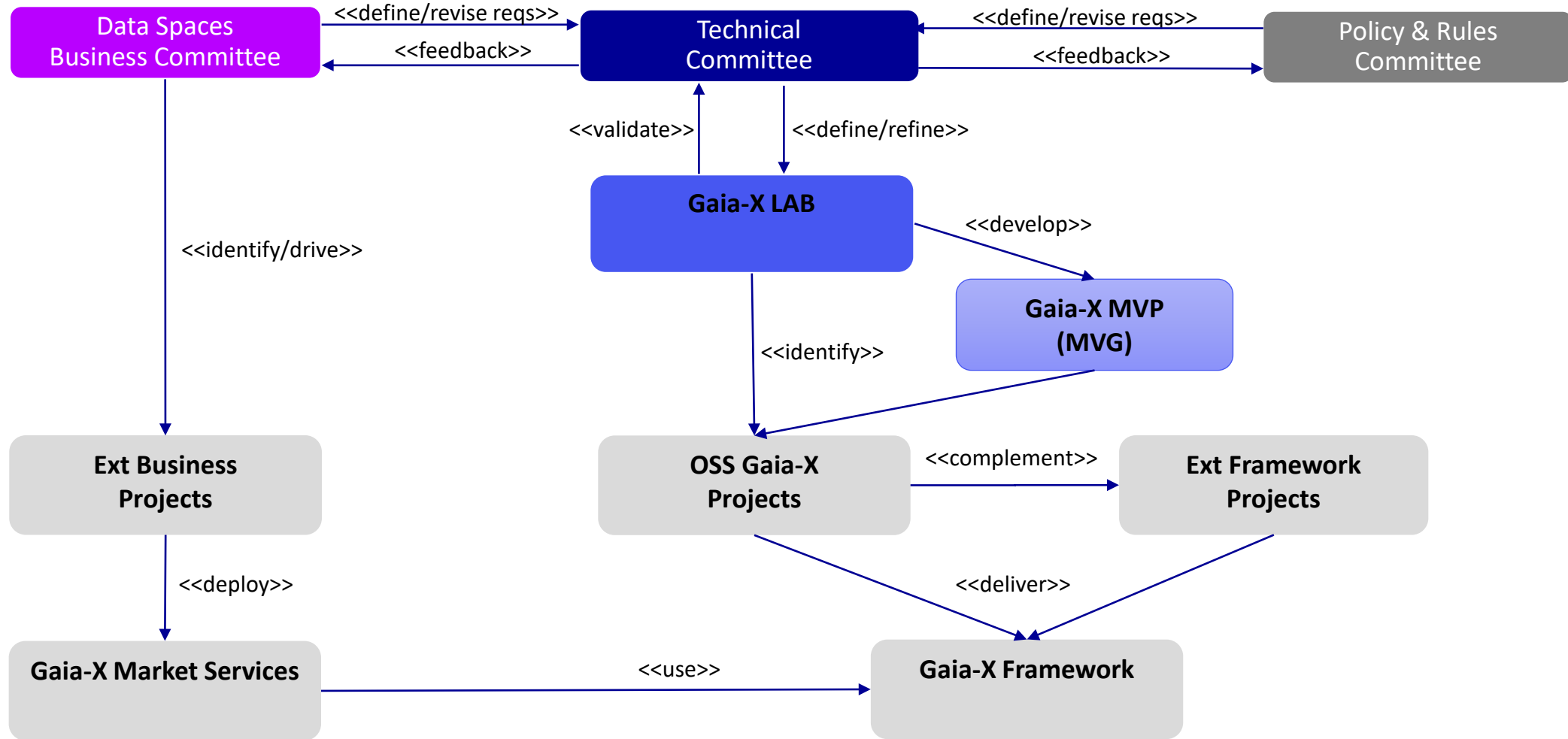
Gaia-X Ops Model & Projects

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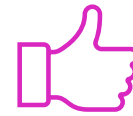
Gaia-X New Operational Model 2022



FROM DEFINITION TO VALIDATION



Gaia-X Federated Services (GXFS)



GERMANY AND FRANCE SUPPORT



Coordination led by ECO

13M€ Budget

Lots :

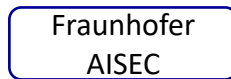
- Authentication/ Authorization (Tsystem, Fraunhofer, Verimi)
- Personal Credential Manager, Organization Credential Manager, Trust Services Api (Vereign, Daasi)
- Core Catalogue Functions, Data Contract Service, Data Exchange Logging Service (Bigchaindb, Smartcontrol, Deltadao)
- Continuous Automated Monitoring (Fraunhofer)
- Orchestration (Xlab)
- Portal (Tsystem, Ultratendency)
- Notarization (Sec, Spherity, Msg)

Coordination led by IMT / TeraLab

12M€ Budget

Lots :

- Identity Access Management (3dsoutscale)
- Self-description (Ovhcloud)
- Security And Norms (Docaposte)
- Testbeds (Imt, Teralab)
- Data Sharing Components (Atos)
- Data Exchanges (Dawex)
- Management (Imt, Teralab)



Smart Control



Gaia-X Data Space Lighthouse Projects started in 2021



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

Automotive Supply Chain



<https://agdatahub.eu/en/>

Agriculture



Structura-X

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

Manufacturing, Industry 4.0



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

Electronics Supply Chain



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

Manufacturing, Industry 4.0



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

Mobility

Gaia-X Compliance

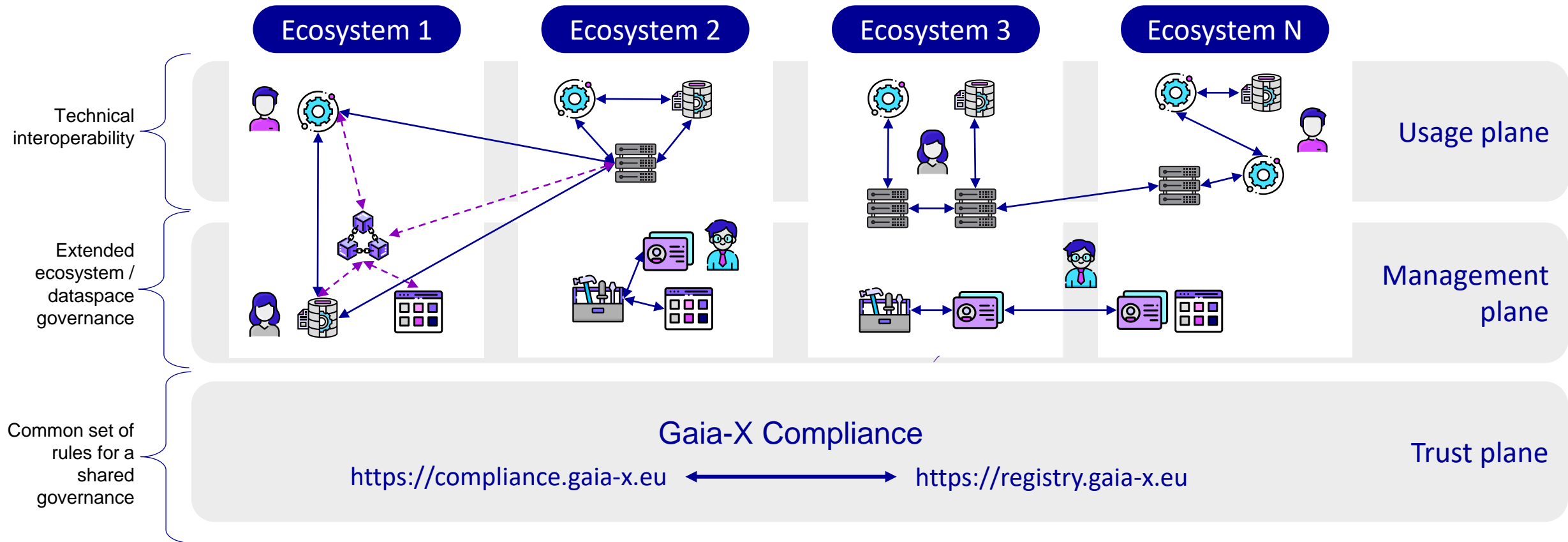
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Wednesday, 06 July 2022

One Gaia-X Ecosystem, federating interoperable autonomous data-infrastructure ecosystems



Gaia-X Ecosystem: the virtual set of Participants, Service Offerings, Resources fulfilling the requirements of the **Gaia-X Trust Framework**



NIST 500-332: Cloud Federation Reference Architecture (§2)



Federation Services toolbox (GXFS)



Service catalogue



Federator



Participants



DLT

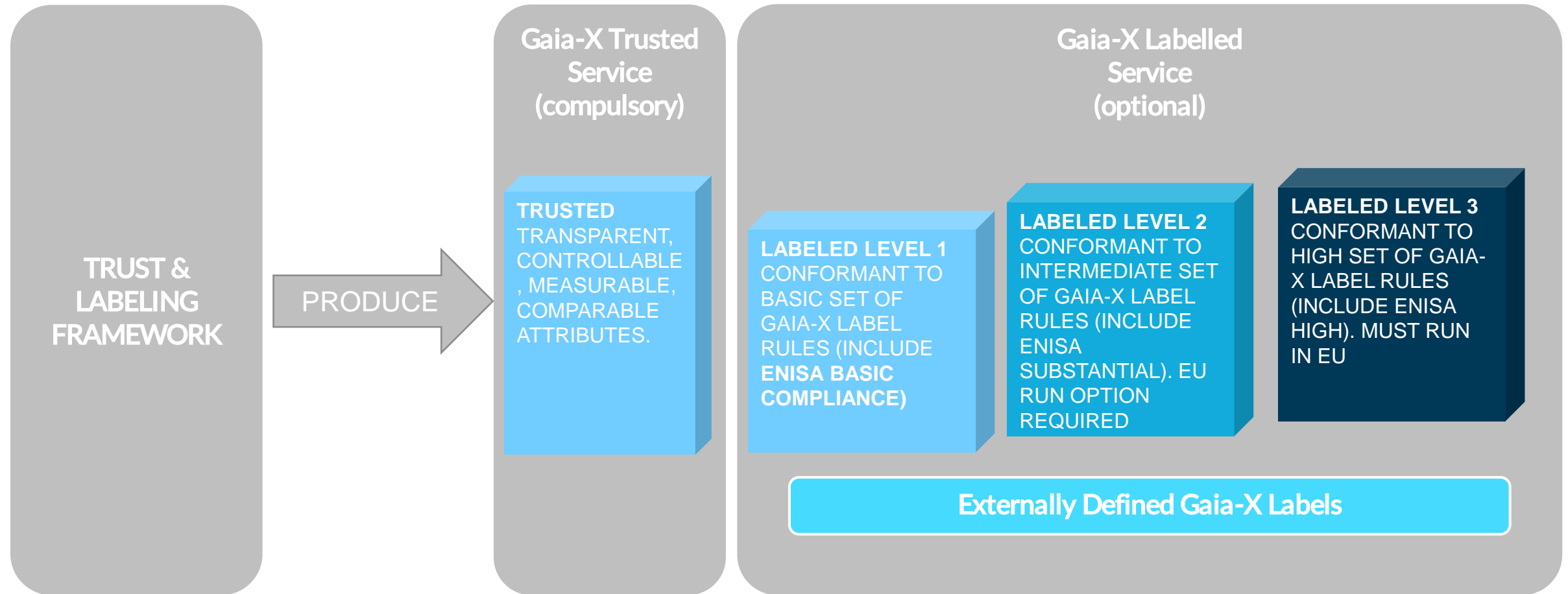


Verifiable Credential Wallet

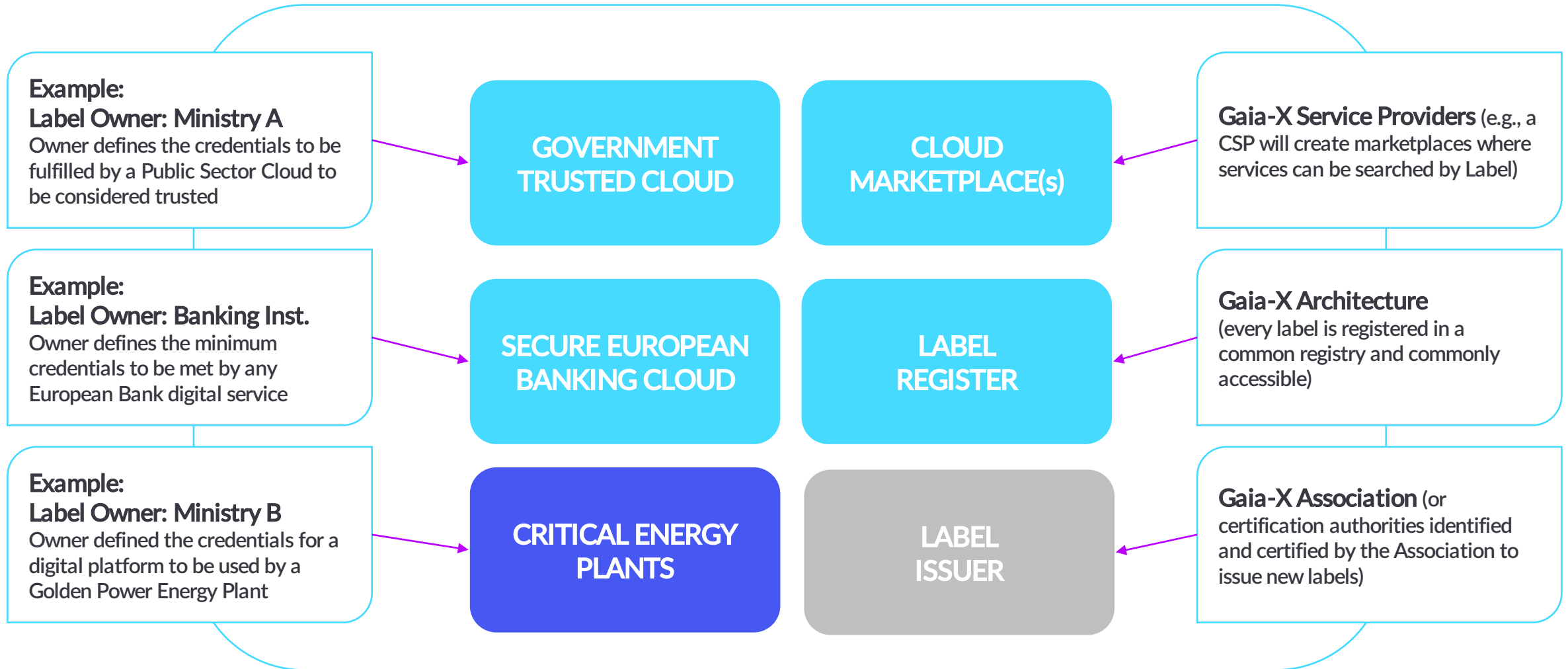


Service Offerings

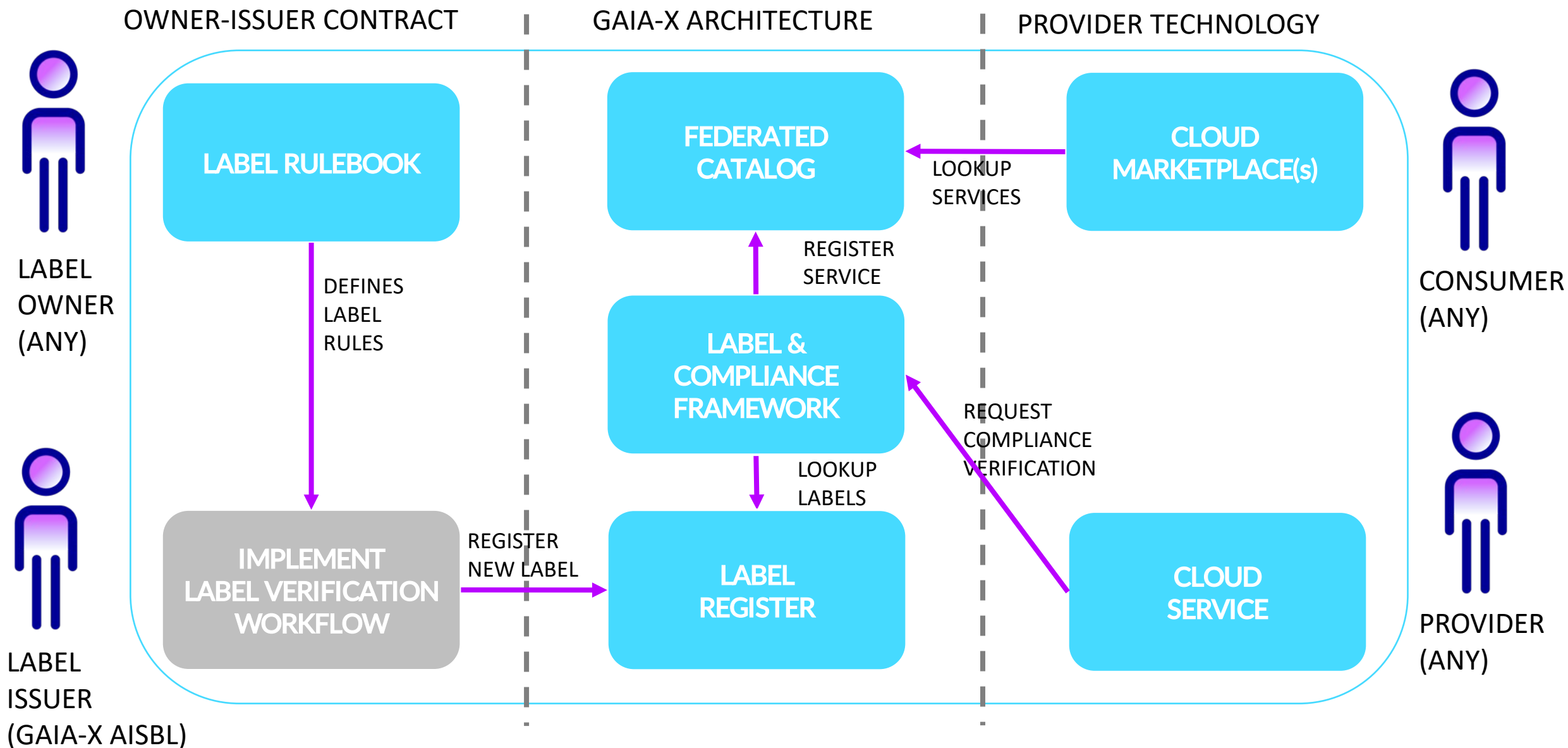
Gaia-X Rules: Trust & Labelling Framework



Gaia-X External Label Owners Example



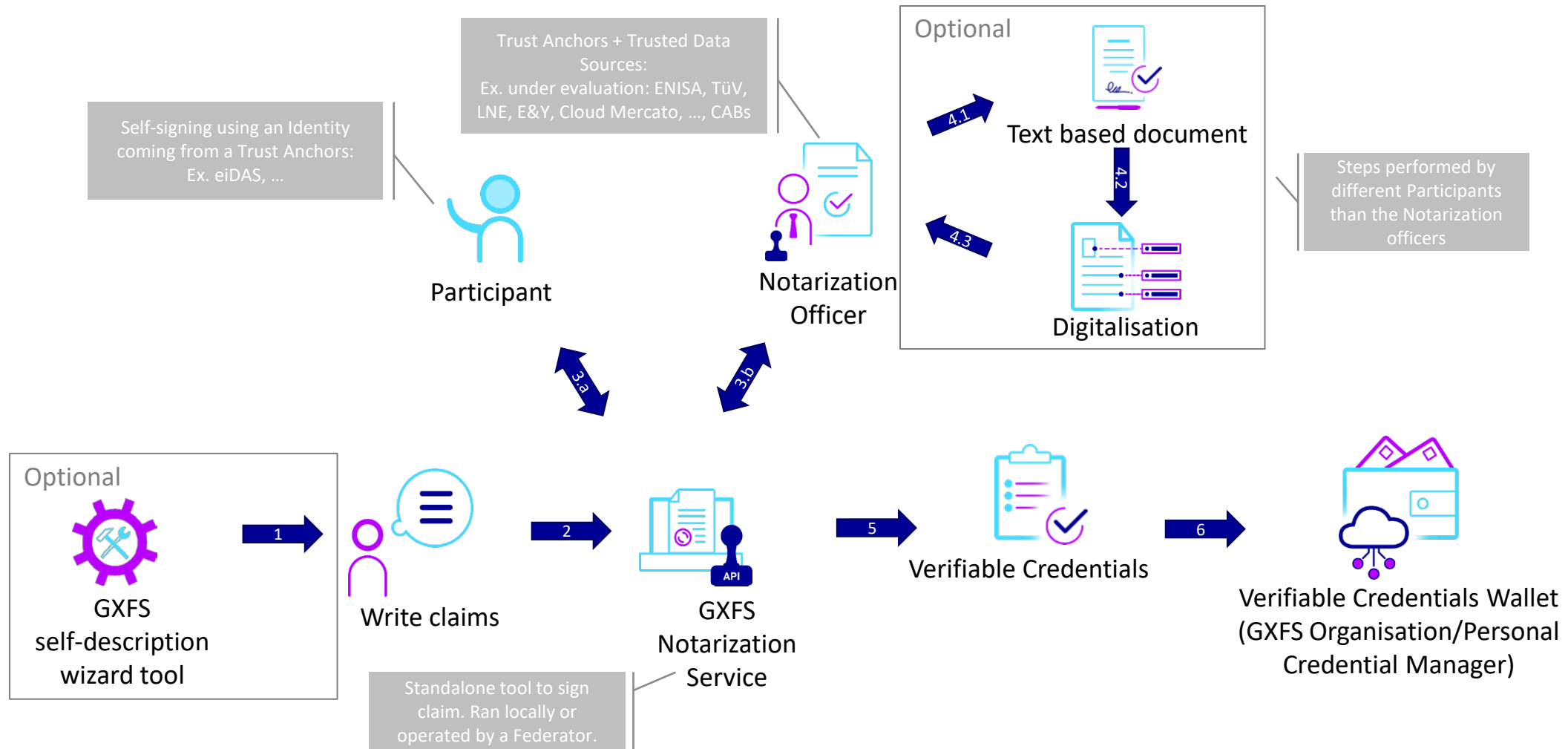
Gaia-X Label Functional Model (exemplification)



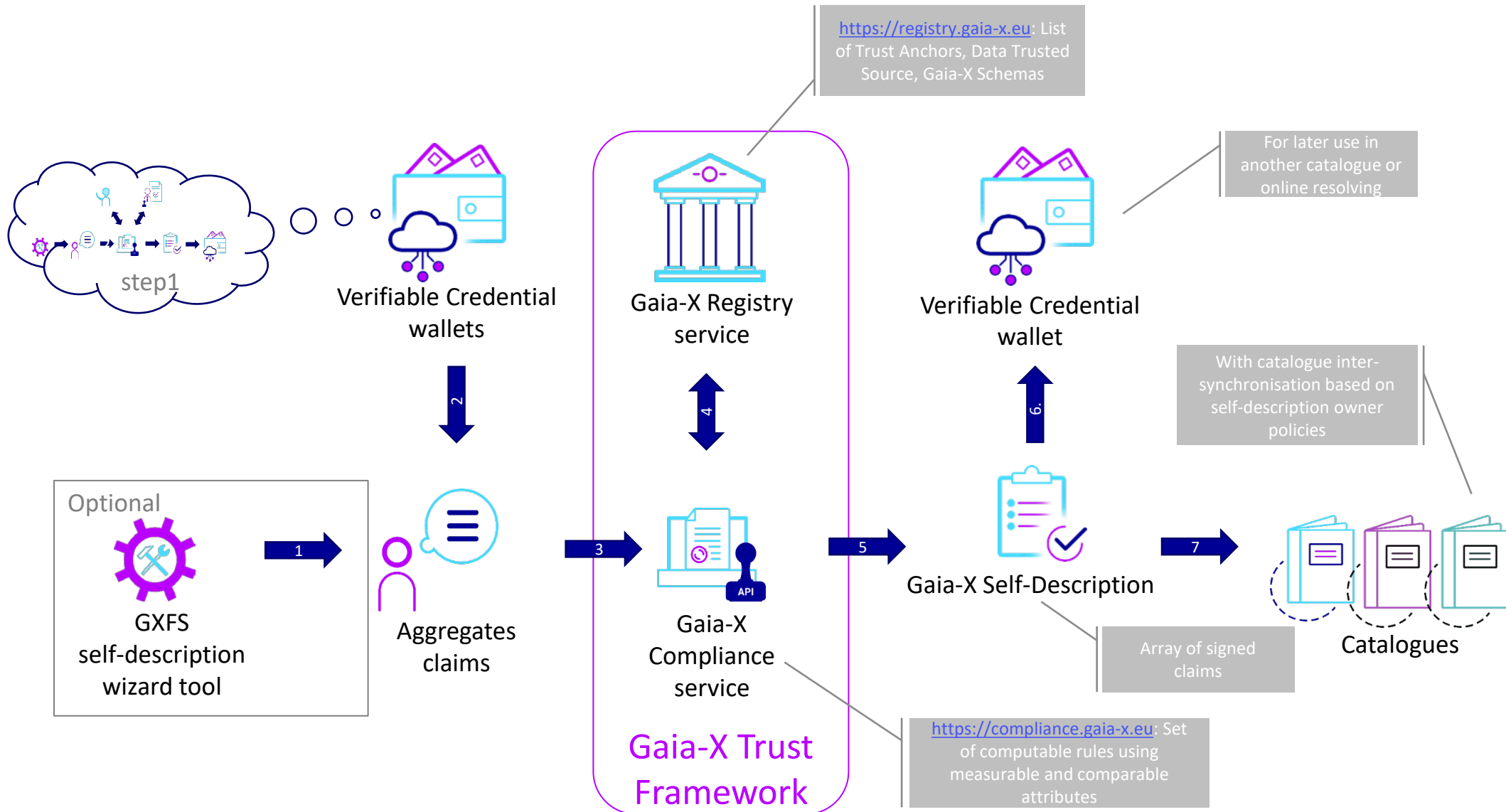
Gaia-X Compliance – Tech Insight

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Wednesday, 06 July 2022

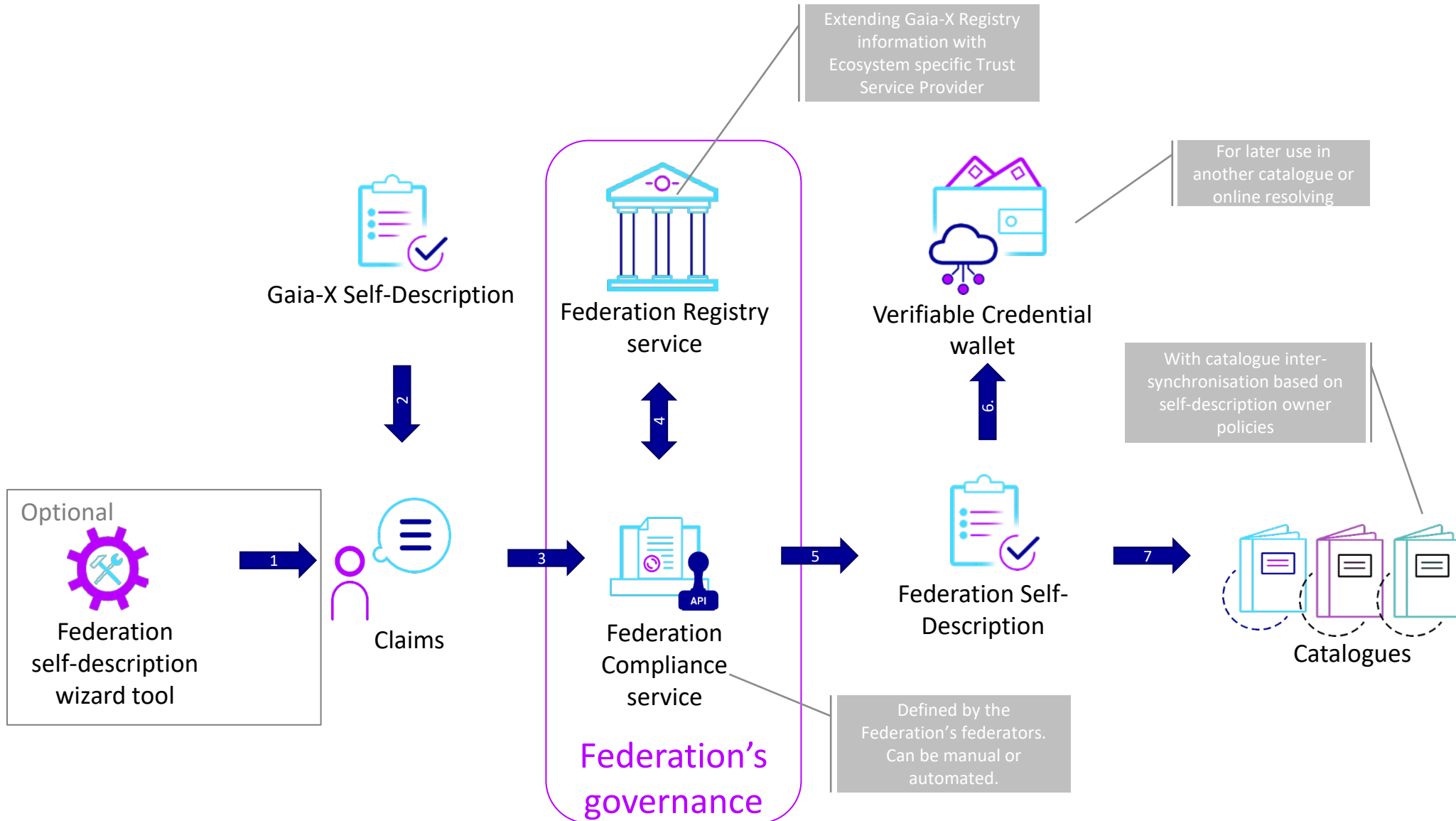
Step 1/3: Collect signed claims



Step 2/3: Create Gaia-X Self-Descriptions



Step 3/3: Federation governance extension



Gaia-X Membership and Hubs

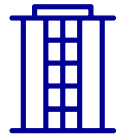
The Gaia-X network expands!



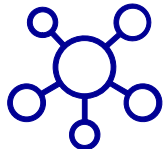
The Most representative alliance of organisations in Europe



350 companies and organisations



3 out of 4 organisations are private companies, **about half** of which are SMEs*



Organisations from different industries, such as Mobility, Energy, Manufacturing, Finance etc.



Large Companies



SMEs



Start-Ups



Universities



R&D



Associations

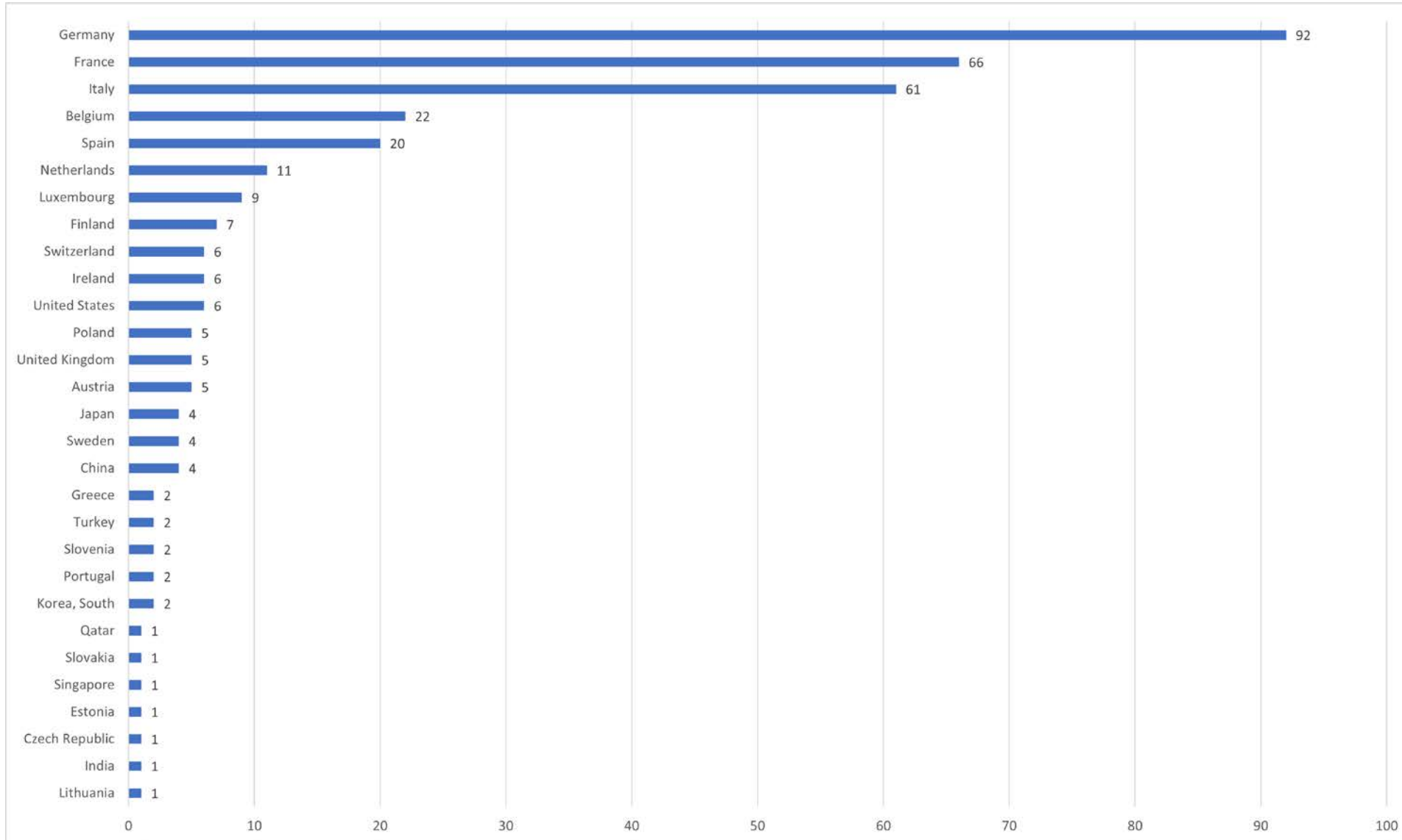


Public Sector



Mentioned explicitly in the **European Data Strategy** and proactively addressing key issues. Exchange between Gaia-X and the **European Commission** to identify synergies between Gaia-X and initiatives and programs such as the **European Cloud Federation, CEF 2** and **Digital Europe**.

Gaia-X Member Distribution

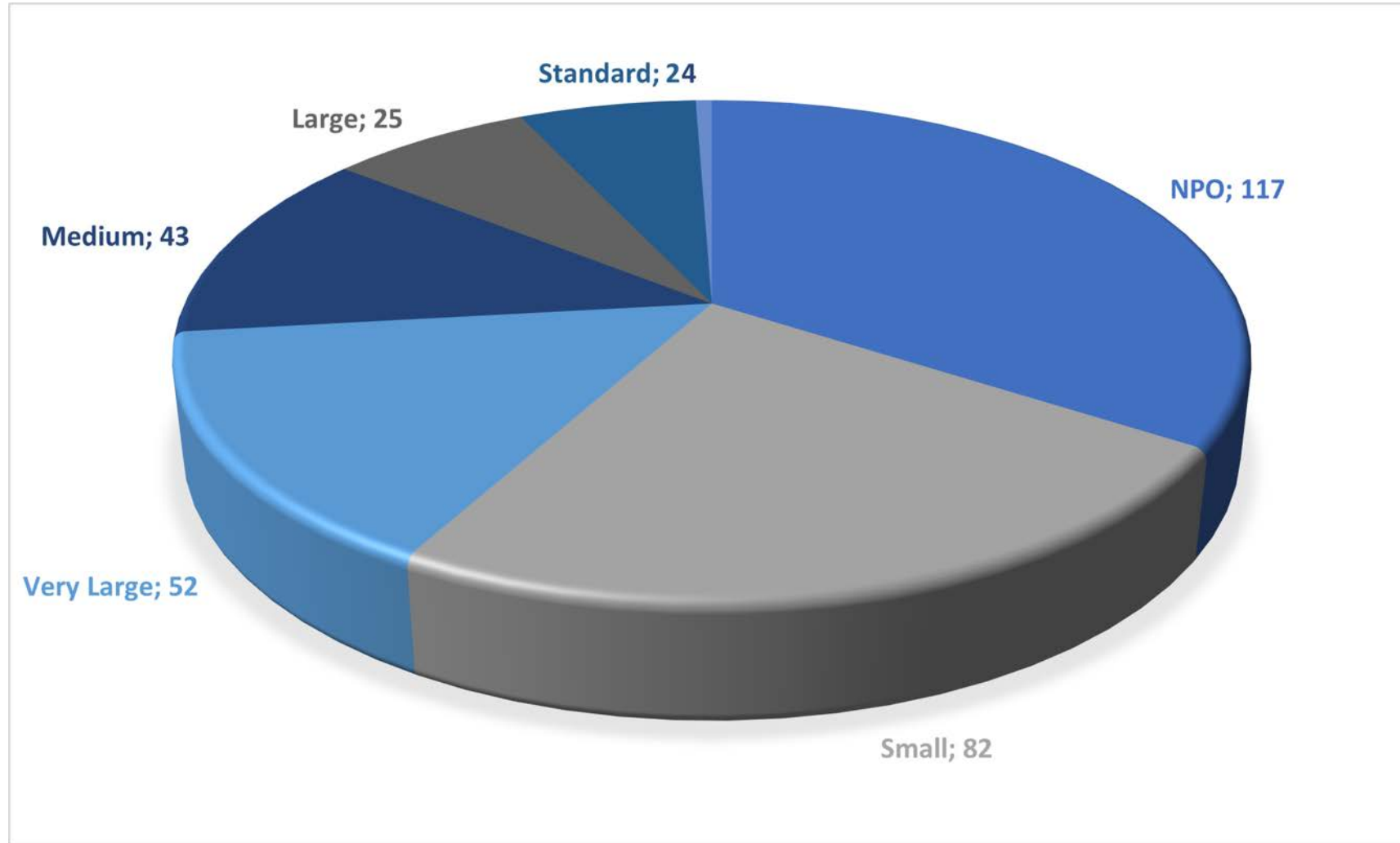


To date
350 members

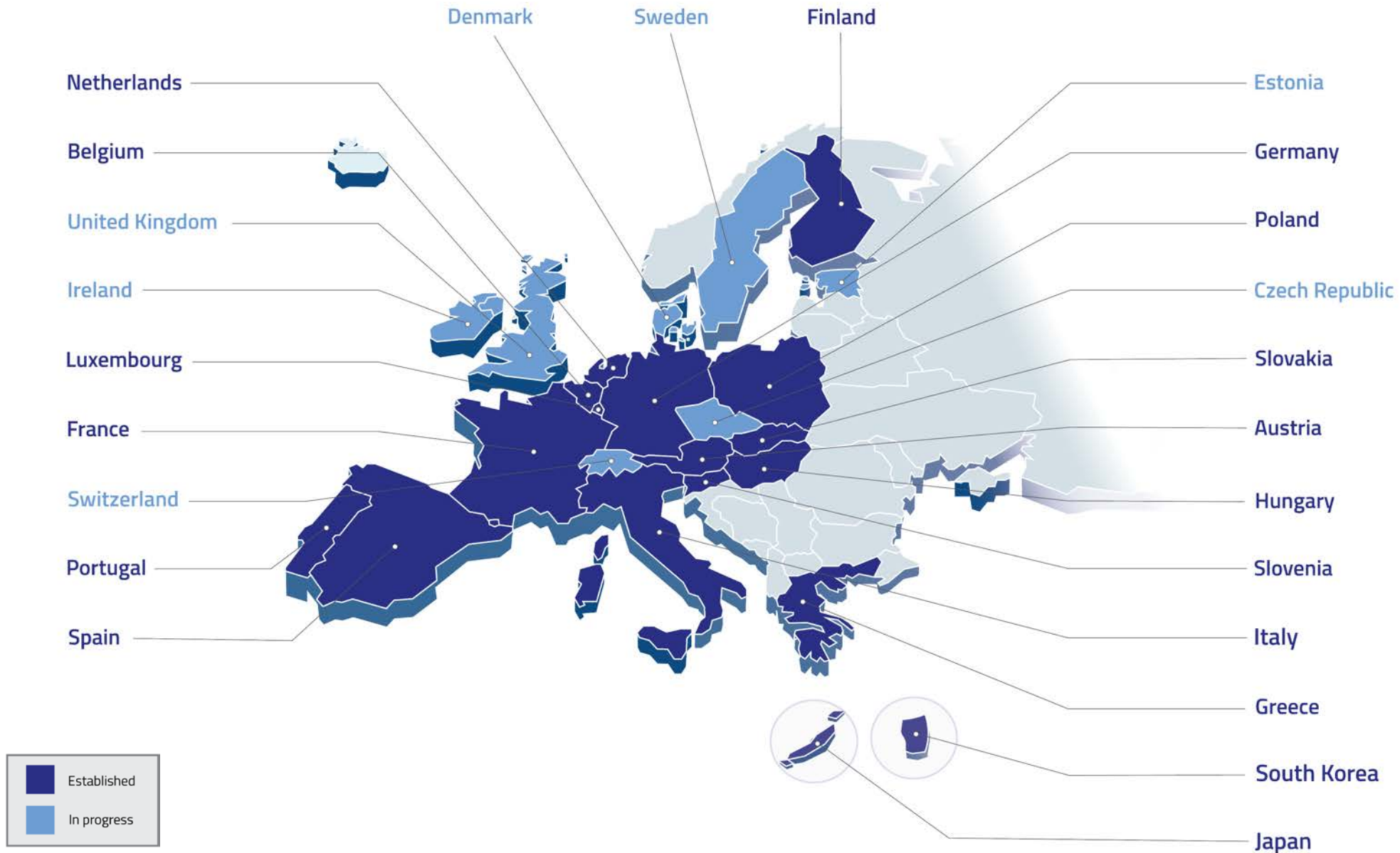
OGA22
348 members

EGA21
270 members

Gaia-X Member Sizes



Gaia-X International Hubs (15 EU + 1 non-EU + 1 non-EU collaboration)



Gaia-X Governmental Advisory Board



- **GERMANY** – DANIELA BRÖNSTRUP, Director General Digital and Innovation Policy, German Federal Ministry for Economic Affairs and Climate Action
 - **FRANCE** – MATTHIEU WEIL, Head of Digital Economy Department, Ministry of Economy, France
 - **ITALY** – STEFANO FIRPO, Head of Cabinet of the Minister for Technological Innovation and Digital Transition
 - **SPAIN** – ALBERTO PALOMO, Chief Data Officer, Government of Spain
 - **NETHERLANDS** – JOS DE GROOT, Director Digital Economy
 - **PORTUGAL** – ANDRÉ DE ARAGÃO AZEVEDO, Secretary of State for the Digital Transition, Republic of Portugal
 - **BELGIUM** – JACK HAMANDE, Director General Digital Transformation at FPS Policy and Support
 - **LUXEMBOURG** – MARIO GROTZ, Director General for Industry, Technology and Research at Ministry of Economy
 - **FINLAND** – ILONA LUNDSTRÖM, Director General at Ministry of Employment and the Economy
 - **POLAND** – ROBERTO KROPLEWSKI, Governmental Advisory Board Member (Chancellery of the Polish Ministry)
 - **AUSTRIA** - MICHAEL WIESMÜLLER, Head of department for Key Enabling Technologies for Industrial Innovations at Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology
 - **GREECE** –MARIA MAVRIDAKI, Legal Officer, European Commission
 - **SLOVENIA** – NENA DOKUZOV, Head of Project Group for New Economy and Blockchain Technologies at Ministry of Economic Development and Technology, UNECE expert and Head of Delegation for Slovenia
 - **SLOVAKIA** – JURAJ PANKUV, Advisor, Ministry of Investment, Regional Development and Informatization of the Slovak Republic
- ...more to come...

Gaia-X Data Spaces (12)



gaia-x	Health	Manufacturing / Industry 4.0	Mobility	Agriculture	Energy	Geoinformatics/Space	Smart Cities	Finance	Tourism	Green/Circular Economy	Media	Skills & Education
Austria						X			X	X		
Belgium			X	X		X					X	
Finland			X	X						X	X	
France	X	X	X	X	X			X				X
Germany		X	X					X				
Greece		X			X							
Hungary	X	X	X	X	X							
Italy	X	X				X						
Luxembourg	X					X		X				
Netherlands	X	X	X	X	X						X	
Poland	X	X		X	X			X				
Portugal	X				X		X		X	X		
Slovakia	X	X	X			X						
Slovenia	X	X		X			X			X		
Spain	X			X					X			
UK	X				X		X	X				
Japan		X										
South Korea		X										
Count	11	11	7	8	7	4	4	5	3	4	3	1

Community Engagement

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Status overview of the Gaia-X endeavor

Francesco Bonfiglio, CEO Gaia-X Association

Media Kit

<https://gaia-x.eu/news/press-room>

News section

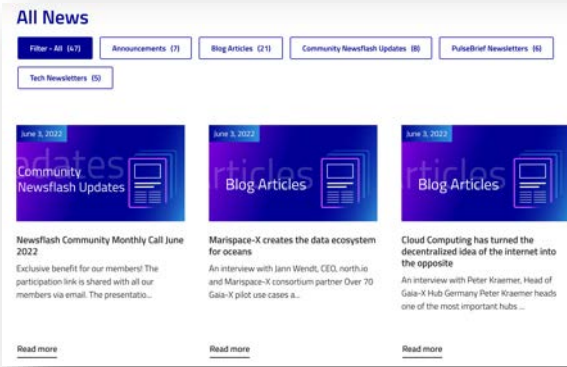
<https://gaia-x.eu/news>

Editorial Calendar

<https://gaia-x.eu/news>



gaia-x



Weekly Press Reviews

<https://gaia-x.eu/press-review>

Press Clips

<https://gaia-x.eu/press-room/press-review-clips/>



Weekly Press Review

04 April 2022 – 11 April 2022	✕
Gaia-X Weekly Press Review: 04 April 2022 – 11 April 2022	
14 March 2022 – 04 April 2022	+
07 March 2022 – 14 March 2022	+
28 February – 07 March 2022	+
21 February – 28 February 2022	+
14 February – 21 February 2022	+
7 February – 14 February 2022	+
31 January - 07 February 2022	+
24 January - 31 January 2022	+

Nikkei Asian Review - 03 Fe - 21:47 UTC
Japan to pitch data-sharing framework to bolster Asia supply chains
 EU's Gaia-X data infrastructure seen as role model
 EU's Gaia-X data infrastructure seen as role model

Spoke - 31 Ja - 11:00 UTC
BigchainDB, co-founder of Ocean Protocol, wins 3 tenders for Gaia-X Federation Services
 These are the first EU-wide tenders for the release candidate of the Gaia-X Federation Services Through this technical work, BigchainDB ...
 – Association of the Internet Industry, added that, " The Gaia-X's open source software modules, available mid-year, will enable innovation

Press Releases

<https://gaia-x.eu/press-room/press-releases/>

June 7, 2022
Gaia-X releases a new Architecture document and Trust Framework to strengthen Gaia-X's ecosystem and better safeguard data

The documents aim to enforce a higher and unprecedented level of trust in digital platform 7 June 2022 – Brussels, Belgium: Gaia-X, championing data sovereignty, has announced the release of two...

[Read more](#)



Events

<https://gaia-x.eu/events/>



Featured Events

June 9, 2022

How can dataspace contribute to Tourism development in Europe through citizen-centered offerings?

The European Tourism sector is highly beneficial, yet highly fragmented. In this instance, Gaia-X is aiming at making European tourism data available to improve the capacity to attract tourists by receiving improved and tailored experience offers through centering the sector on the customer and their needs. Better data availability would...

[Read more](#)

[Previous](#)

[Next](#)



Home » Event » Enable the future of health: federated, citizen-centric and insight-driven!

Enable the future of health: federated, citizen-centric and insight-driven!

This event has passed.



April 4 @
10:00 -
16:00
UTC+1

[In4 Virtual Event](#)

Past Events

- Filter - All (40)
- Data Space Events (4)
- EU Funding Events (3)
- General Assemblies (2)
- Hackathons (6)
- Hub Events (3)
- Onboarding & Engagement (6)
- Other (6)
- Summits (1)
- Tech Dives (6)
- Policy & Rules Document (3)



Onboarding, Engagement and Q&A Webinar

[Read more](#)



Gala-X Members Onboarding and Engagement Webinar

[Read more](#)



Gala-X Members Onboarding and Engagement Webinar

[Read more](#)

Home » Event » Hackathon #4

Hackathon #4



June 20 @
09:30 -
June 21 @
17:30
UTC+1

[In4 Virtual Event](#)

The Gaia-X Hackathon #4 will take place from 20 to 21 June 2022, organised as an online event.

This hackathon edition is focused on the approved, measurable set of rules needed to fulfil in order to be Gaia-X compliant. Those rules are available in the [Gaia-X Trust Framework document](#).

With this regard, the CTO office would like to stress the importance of using and contributing to the Gaia-X Registry and Gaia-X Compliance APIs.

In order to streamline our effort to deliver Gaia-X, projects committed to contributing or using the [Gaia-X Registry](#) and [Gaia-X Compliance API](#) will be prioritised.

Home » Event » How can dataspace contribute to the development of mobility activities in Europe and better service for travellers?

How can dataspace contribute to the development of mobility activities in Europe and better service for travellers?

This event has passed.



May 19 @
10:00 -
16:00
UTC+1

[In4 Virtual Event](#)

The European Mobility domain is very rich but highly fragmented. Gaia-X has set the goal of making mobility data more available to improve the capacity to circulate better for each individual citizen on the European territory and to support the development of

Home » Event » Gaia-X Tech Deep Dive

Gaia-X Tech Deep Dive

This event has passed.



March 25
@ 12:00 -
12:45
UTC+2

[In4 Virtual Event](#)

During this Tech Deep Dive, our CTO, Pierre Grenier, will walk you through the different steps and requirements to enhance your understanding of the exchange of Gaia-X Verifiable Credentials, the role of the issuers, holders, and verifiers.

The [Verifiable Credentials Lifecycle](#) presents the base of the Gaia-X Trust and Labeling frameworks.

Agenda:

- 12:00 - 12:20 - Verifiable Credentials lifecycle Presentation
- 12:20 - 12:45 - Questions and Answers

Intranet & communication material

<https://members.gaia-x.eu/>

members.gaia-x.eu

Gaia-X Intranet

The access to this website is limited to Gaia-X association members. If you are not a member of the association, please visit <https://members.gaia-x.eu/>

Gaia-X association members can access this website by login and using their Gaia-X credential here <https://members.gaia-x.eu/>

Connect with:

Login with Gaia X Membership

Fig: Gaia-X Login button

<https://gaia-x.eu/press-room/communication-material/>

Communication Material

Home -> Press Room -> Communication Material

About Gaia-X (Boiler Plate)	+
Gaia-X Factsheet	+
Gaia-X Infographic	+
Gaia-X Standard Presentation	+
Gaia-X Communication Briefing	+
Gaia-X Media Kit	+
Gaia-X Logo	+
Gaia-X Federation Services (GXFS) - Executive Summary	+
Gaia-X Hubs	+
Gaia-X Membership	+
Gaia-X Design Guidelines	+
Gaia-X Hubs Online Styleguide	+

Gala-X at a glimpse

Together towards a sovereign European Data Infrastructure

Who we are
We are building the next generation data infrastructure. Where anyone – whether organisations or individuals – can collect and share data and use services. In a networked system based on the values of openness, transparency and trust.

Mission
Together we create an open, transparent, and secure federated digital ecosystem, where data and services respect to common rules and can be freely and securely built, collected, and shared.

Vision
Digital Platforms are becoming the digital backbone of environmental, economic, political, and societal systems. Our ability to ensure their proper functioning is a prerequisite of Freedom, transparency, sovereignty and trust and determine the future of Europe and our well-being.

Gaia-X in numbers

- 300+ members from 27 countries join the association, including enterprises, research institutions, academia, administrations and public.
- 120+ 10+ 10+ 3 10
- 120+ 10+ 10+ 3 10
- 16 9 72%
- 480 M 90% 829 BN
- 16 9 72%
- 480 M 90% 829 BN

The demand
90% of European users want software data protection rights across the EU.
72% of European internet users have opted for personal information control.

16 Hubs are established in Belgium, France, Germany, Greece, Italy, Luxembourg, the Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, United Kingdom.

9 Data Spaces are identified: Agriculture, Energy, Financial Services, Manufacturing, Maritime, Public Service, Smart Living.

72% of European internet users have opted for personal information control.

480 M In addition to business, up to 480 million will benefit from a European Digital Single Market based on technologies and standards of Gaia-X.

90% of European users want software data protection rights across the EU.

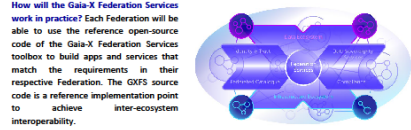
829 BN The value of data is growing to 829 billion.

Gaia-X Federation Services (GXFS) Gaia-X Ecosystem Kickstarter – Executive Summary

What is this White Paper about? This White Paper explains the Gaia-X Federation Services' concept from a broader Gaia-X project angle. It introduces the reader to the Gaia-X project, elaborates why Federation Services are key to deliver Gaia-X's ambitions and provides an overview of different Federation Services for a non-technical audience.

What is Gaia-X and why does it matter? Gaia-X is a European project aiming to promote innovation through data sharing. By addressing the lack of trust in the current data landscape, Gaia-X will tap into the potential of linking up different industries and new data pools. Gaia-X develops a framework whereby actors will agree on certain rules and values that create trust among all actors based on the values of data sovereignty, privacy, security, technology neutrality and interoperability. In a community-driven process - companies, individuals and other actors can join Gaia-X.

What is GXFS? Gaia-X Federation Services are the implementation toolbox and minimum technical requirements and services to kickstart Gaia-X. The Federation Services empower the Federations to become operational and work together in an efficient and secure manner.



What specific services are being developed? A range of services have been defined in the work packages Identity & Trust, Federated Catalogues, Data Sovereignty Services, Compliance and Portal. For instance, such services include authentication and authorisation, personal credentials management, self-descriptions and notarization services to name only a few. Further details may be consulted through the latest release of the White Paper available [here](#).

Who is working on GXFS? GXFS-DE is the project name of an initiative funded by the German Ministry of Economics and Energy, and as per a German Parliament decision. It intends to kickstart the development of Gaia-X Federation Services through a joint community process. The resulting specifications and open-source code of this funded project are owned by the Gaia-X Association.

The eco-federation of the Internet Industry, with its Head Office in Cologne, Germany, acts as a procurer to coordinate the specification work and to award the implementation contractors, based on an open EU-wide tender process.

Why join us as a member?

- Lay the Foundations:** Get exclusive access to technical development, discussion-making and consultation processes on technical aspects.
- Exchange Knowledge:** Fully access all collaboration platforms, webinars and deep dives, helping you learn more about Gaia-X and share your experiences.
- Shape the Future:** Participate actively in the working groups and committees within the Association.
- Get funding opportunity updates:** Receive monthly communication on relevant funding opportunities at European and national levels. Get support from Gaia-X Proposals Office to partners and get all a on the calls of year in from-base requirement volume.
- Set standards:** Be part of an open discussion about the standards Gaia-X should be based on and ensure accessibility for all users and domains.
- Get promoted:**
 - Associate your membership launch with a joint announcement through channels.
 - Promote your collaboration through a joint press release and reinforce your CEOs.
 - Be part of a dedicated social media campaign running over two weeks follow and sharing about your news, activities, events throughout the year.
 - Co-organize your events, webinars, workshops alongside Gaia-X.
 - Let your views through interviews or editorial pieces alongside Gaia-X.
 - Take part in various testimonial throughout the year.
 - Sponsor our ecosystem and being advantage of a dedicated campaign, specifically running a dedicated campaign during that event.

Gaia-X at a glimpse

Gaia-X Committees – Taking the project forward together

Which Gaia-X Committees exist?

There are three committees:

- The Data Space Business Committee
- The Technical Committee
- The Policy Issues Committee

They are the highest ranked bodies under the Board of Directors of the Gaia-X European Association for Data and Cloud A2DE. Members of the Association may participate in the Committees. They are appointed by the Board of Directors.

Data Space Business Committee

Purpose
Driven by a holistic view on digital business ecosystem the aim of the Data Space Business Committee (DSBC) is to foster the implementation of Data Space by third parties. By evaluation and development of functional, technical, operational, legal, and economic requirements the mission is to actively stimulate and support the establishment of Data Spaces across but not limited to Europe.

Required prerequisites (input)
- relevant knowledge and experience within the context of data spaces (e.g. related to data sharing, governance models, business models, operating companies)

Deliverables (output)
- strategic guidelines and support for setting up data space
- reflection of dedicated business needs and translation into the Gaia-X Association (e.g. requirements for Gaia-X services)

Co-Heads
Jean-François Cassin (Chair)
Sébastien Schreiber (Co-Chair)

Associated Open Work Packages
- Open Compliance

Gaia-X at a glimpse

Gaia-X Hubs – Join a thriving network across Europe

What are Gaia-X Hubs?
Gaia-X is the next generation of digital data infrastructure. A trustworthy data ecosystem across Europe and beyond based on the implementation of open, transparent, and sovereign, interoperable community of Gaia-X Hubs across the entire European continent. Gaia-X Hubs are the building blocks of the Gaia-X ecosystem. They will help to identify relevant use cases and requirements and ensure that the necessary standards, guidelines, and best practices are established. National Gaia-X Hubs are the central contact points for participating and developing the Gaia-X project.

What is the role of Gaia-X Hubs?
Hubs facilitate and support the creation of European Data Spaces. They are regional ecosystem projects to integrate digital data, business strategy, innovation and funding opportunities to implement Gaia-X services. Hubs focus on developing data spaces that are relevant or specific to the local region and also interact with other regions to build cross-national data spaces.



How are Gaia-X Hubs organised?
National Gaia-X Hubs pursue a bottom-up approach. They are self-organised while closely aligned with the Gaia-X Association. Interoperability of participating actors between Hubs and the Gaia-X Association is fostered through various key support services or companies that can provide use cases, expertise and resources, or who is willing to contribute to the creation of Data Spaces, well beyond their own. A Gaia-X Hub is a community of trust. It is established under the leadership of a steering committee. The steering committee is composed of representatives from other countries as well, especially those that do not have Gaia-X Hubs themselves. Each Hub is a hub for members who contribute their own data and services to the Gaia-X ecosystem. The Gaia-X Hub is part of an open and digital Gaia-X Community. Hub participants are not necessarily members of the Gaia-X Association but, if so, are encouraged to become one, so as to take part in the decision-making processes of architecture, as well as policy and rules development.

Gaia-X Data Space Use cases & Publications

Use cases

90+ Use cases
10+ Sectors
7 Countries

Do you want to submit a use case? Get in touch today!

Join Gaia-X

Load More (19)

Data Space Energy: Low carbon hydrogen
Local communities of energy setting up and operationalising, local open data for business models
[Read more](#)

Data Space Energy: Nuclear
Day-to-day collaboration capabilities with GIFEN, industry observatory, ESPN digital platform, vision platform, organization of nuclear waste management
[Read more](#)

Using the intelligent Chatbot to reduce Helpdesk Tickets
This use case deals with how the number of helpdesk tickets can be reduced through chatbots.
[Read more](#)

Improving the User Experience and developing innovative Forms of User Experience
The use case opens new possibilities for creative industries in particular to develop innovative forms of experience and data-based value-added services.
[Read more](#)

Collaborative Condition Monitoring
On our way to Industry 4.0 – How companies can engage in trusted collaboration
[Read more](#)

Smart Manufacturing
Practical implementation of industry 4.0? – A tour de force
[Read more](#)

Supply Chain Collaboration
Harnesses supply network synergies in a connected industry
[Read more](#)

Smart building management
Smart Living: Solutions that create a secure, high-performance and multi-functional housing-sector cloud environment.
[Read more](#)

Financial Big Data Cluster (FBDC)
A cloud-based data platform for the financial sector strengthens the European Financial Marketplace
[Read more](#)

AIoNET - Medical Data system
Driving medical progress with Artificial Intelligence
[Read more](#)

Berlin Health Data Space
AI to prevent acute kidney failure and ensure earlier diagnosis
[Read more](#)

Smart Health Connect
Better preventative healthcare with smart wearables
[Read more](#)

Public administration Chatbot
Serving citizens 24/7 - digital assistance to simplify public administration processes
[Read more](#)

Space4Cities
Using big data from space to shape the city of the future
[Read more](#)

Research Platform: Genomics
Defeating Cancer - a research platform for genome data
[Read more](#)

Publications

Home » MediaTech » Publications

Ranging from position papers, to mission statements, and the nitty technicalities of the Gaia-X project, some of the most impressive publications, deliverable documentation and releases can be found below. Check them out!

June 27, 2022
WHITEPAPER
Unlocking the Power of Data in Healthcare: A European Vision
[Open](#)

May 25, 2022
22.04 Release
Gaia-X Architecture Document
[Open](#)

May 20, 2022
Trust framework
Gaia-X Trust Framework - 22.04 Release
[Open](#)

May 2, 2022
WHITEPAPER
Gaia-X secure and trustworthy ecosystems with Self Sovereign Identity
[Open](#)

April 25, 2022
INDUSTRY PERSPECTIVE
The Road to European Digital Sovereignty with Gaia-X and IDSA
[Open](#)

April 25, 2022
GROUP REPORT
IPv6 Enhanced Innovation (IPE) IPv6 based Data Centers, Network and Cloud Integration
[Open](#)

SSI Whitepaper
[Open](#)

The Road to European Digital Sovereignty with Gaia-X and IDSA
[Open](#)

IPv6 Enhanced Innovation (IPE) - IPv6 based Data Centers, Network and Cloud Integration
[Open](#)

April 21, 2022
21 APRIL 2022
Gaia-X Labelling Criteria
[Open](#)

April 21, 2022
21 APRIL 2022
Gaia-X Policy Rules Document
[Open](#)

April 19, 2022
19 APRIL 2022
EDGE COMPUTING IN THE EUProGIGANT PROJECT
[Open](#)

Gaia-X Labelling Criteria
[Open](#)

Gaia-X Policy Rules Document
[Open](#)

Edge Computing in the EuProGigant Project: Vision – Understanding – Delimitation
[Open](#)

[Load More \(19\)](#)

Gaia-X Useful documents – Check them out!

For quick understanding:

- Gaia-X Factsheet: https://gaia-x.eu/wp-content/uploads/2022/06/Gaia-X-Factsheet_V4_14062022.pdf
- Gaia-X Infographic: https://gaia-x.eu/wp-content/uploads/2022/07/Gaia-X_Infographic_05072022.pdf
- Hubs Infographic: https://gaia-x.eu/wp-content/uploads/2022/06/20210929_Gaia-X_Hubs_TwoPager_A4_V04.pdf
- Media Kit: https://gaia-x.eu/wp-content/uploads/2022/07/GX-Media_Kit_V8_06072022.pdf

Important milestones & relevant publications:

- Vision & Strategy publication: <https://gaia-x.eu/wp-content/uploads/2021/12/Vision-Strategy.pdf>
- Architecture publication: <https://gaia-x.eu/wp-content/uploads/2022/06/Gaia-x-Architecture-Document-22.04-Release.pdf>
- Trust Framework publication: <https://gaia-x.eu/wp-content/uploads/2022/05/Gaia-X-Trust-Framework-22.04.pdf>
- Labelling criteria publication: https://gaia-x.eu/wp-content/uploads/2022/05/Gaia-X-labelling-criteria-v22.04_Final.pdf
- Policy Rules publication: https://gaia-x.eu/wp-content/uploads/2022/05/Gaia-X_Policy-Rules_Document_v22.04_Final.pdf

Gaia-X Press releases

For a user-friendly comprehension:

- Vision & Strategy: <https://gaia-x.eu/news/latest-news/gaia-x-association-releases-its-vision-and-strategy-document/>
- Latest architecture & Trust Framework: <https://gaia-x.eu/news/latest-news/gaia-x-releases-a-new-architecture-document-and-trust-framework-to-strengthen-gaia-xs-ecosystem-and-better-safeguard-data/>
- Policy & Rules/Labelling: <https://gaia-x.eu/news/latest-news/gaia-x-releases-its-latest-policy-rules-and-labelling-criteria-demonstrating-better-governance-and-compliance-with-gaia-xs-principles/>
- Labelling Framework latest release: <https://gaia-x.eu/news/latest-news/gaia-x-association-announces-labelling-framework-release/>
- GXFS and SCS begins: <https://gaia-x.eu/news/latest-news/gaia-x-implementation-phase-starts-for-gxfs-and-scs/>
- Lighthouses: <https://gaia-x.eu/news/latest-news/gaia-x-making-a-stride-in-navigating-digital-transformation-with-its-lighthouse-projects-targeting-multiple-industries/>
- Gaia-X Lab: <https://gaia-x.eu/news/latest-news/gaia-x-association-moves-into-the-adoption-phase-accelerating-the-gaia-x-sw-framework-development-through-oss-project-and-a-sw-lab/>

Why should you join?



Contribute

to a pioneering project that will establish digital sovereignty for Europe.



Shape

how data will be stored, shared, and used in future.



Develop

new data-driven business models and data spaces.



Strengthen

ties to the expert communities in your industry.

Follow us on:



@gaiax_aisbl



<https://www.linkedin.com/company/gaia-x-aisbl>



<https://www.facebook.com/Gaia-X-Association-for-Data-and-Cloud-111692924764099>



<https://www.youtube.com/channel/UCB5WMc2FfrxKzfd7XIODOmW>

Thank you!

