

Operationalization and Market Adoption of Gaia-X

Market – X, Vienna March 2023

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Operationalization and Adaption of Gaia-X



Today



< Nov 22

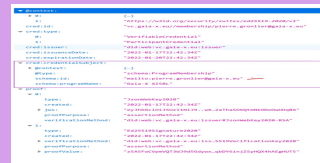
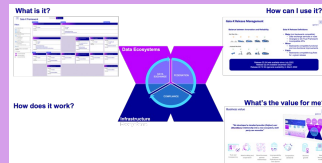
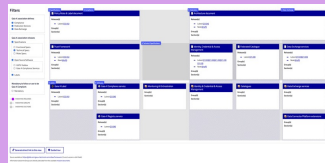
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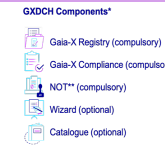
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Summit Paris



Market-X Vienna



Europe & beyond



Who: Gaia-X AISBL
Type: Conceptional
Result: GX Framework

Who: Gaia-X AISBL & GXFS projects
Type: Prototype
Result: Gaia-X Demo

Who: GXFS projects w/ Gaia-X governance
Type: Development
Result: Tagus Code

Who: GXFS projects w/ Gaia-X governance & GXDC providers
Type: Deployment
Result: GXDC launch

Who: Gaia-X community Verticals & HUBs
Type: Adoption
Result: GROWTH

Facts today

> 375 members
16 vertical ecosystems
11 Lighthouse projects
21 HUBs
> 115 projects growing

Grow horizontally and vertically

Key measure is market adoption

Gaia-X Framework 2022



Filters

Gaia-X association defines:

- ☒ Compliance
- ☒ Federation Services
- ☒ Data Exchange

Gaia-X association releases:

- ☒ Specifications
 - ☐ Functional Specs.
 - ☒ Technical Specs.
 - ☐ Rules Specs.
- ☒ Open Source Software
 - ☐ GXFS-Toolbox
 - ☐ Gaia-X-Compliance Services
- ☒ Labels

Mandatory to follow or use to be Gaia-X Compliant:

- ☐ Mandatory

SHOW/HIDE RELEASES

SHOW/HIDE GROUPS

SHOW/HIDE SECTIONS

Specifications

Policy Rules & Label document

Release(s)

- Latest-(22.04)

Group(s)

Section(s)

Compliance

Trust Framework

Release(s)

- Latest-(22.04)
- Next-(draft)

Group(s)

Section(s)

Labels

Gaia-X Label

Release(s)

- Latest-(22.04)

Group(s)

Section(s)

Software

Gaia-X Compliance service

Release(s)

- Latest-(22.06)

Group(s)

Section(s)

Gaia-X Registry service

Release(s)

- Latest-(22.06)

Group(s)

Section(s)

Technical-Specifications

Monitoring & Orchestration

Group(s)

Section(s)

Federation

Architecture document

Release(s)

- Latest-(22.04)
- Next-(draft)

Group(s)

Section(s)

Data-Exchange

Identity, Credential & Access Management

Release(s)

- Latest-21.03(21.03)(21.03)
- [21.03]
- Next-(draft)

Group(s)

Section(s)

Identity, Credential & Access Management

Group(s)

Section(s)

Federated Catalogue

Release(s)

- Latest-(21.03)

Group(s)

Section(s)

Catalogues

Group(s)

Section(s)

Data Exchange services

Release(s)

- Latest-21.03
- Next-(draft)

Group(s)

Section(s)

Data Exchange services

Group(s)

Section(s)

Data Exchange services

Group(s)

Section(s)

Data Connector/Platform extensions

Group(s)

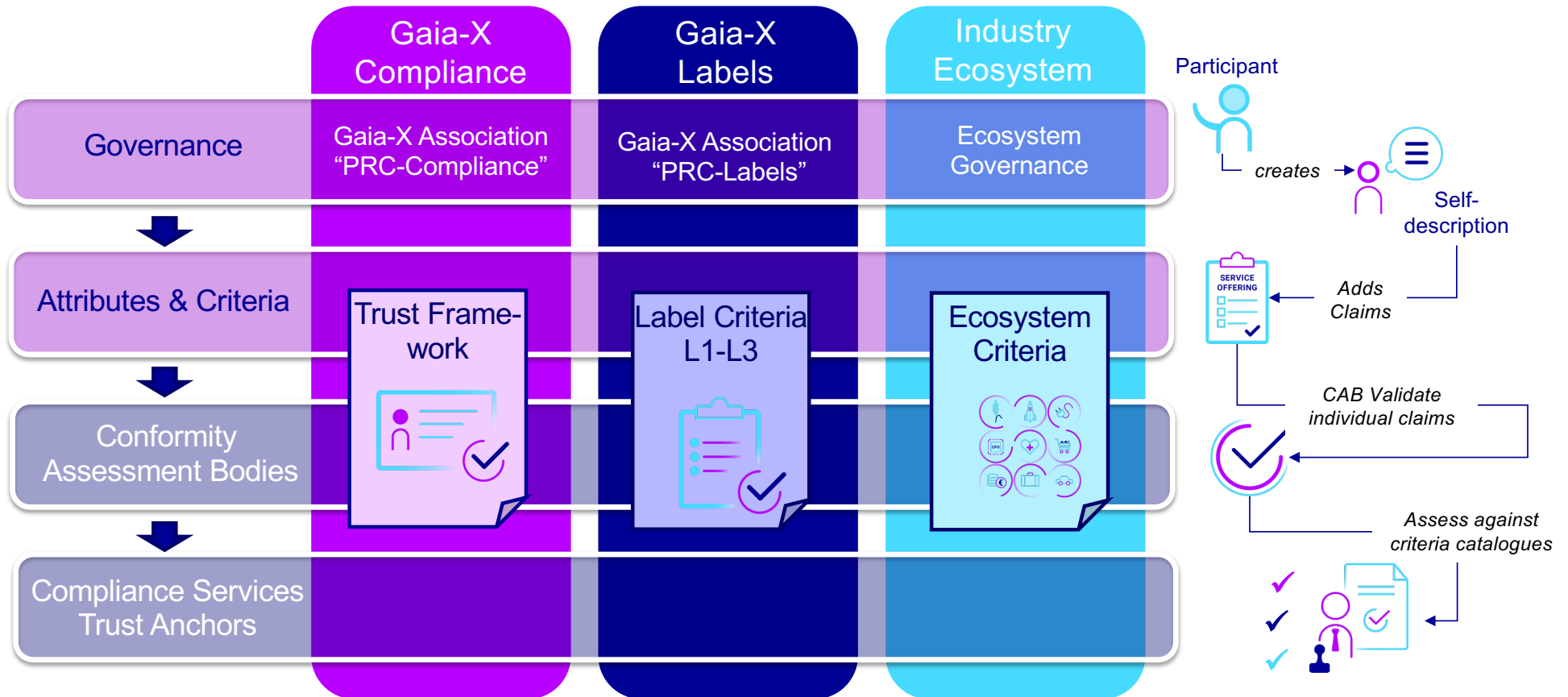
Section(s)

Generate direct link to this view

Guided tour

Source available at <https://github.com/gaia-x/technical-committee/framework>. (Current version is e5410dc)
Information about the Groups are directly extracted from the available mission documents

Gaia-X Compliance - Enable Trust & Governance



Your Business Scenario

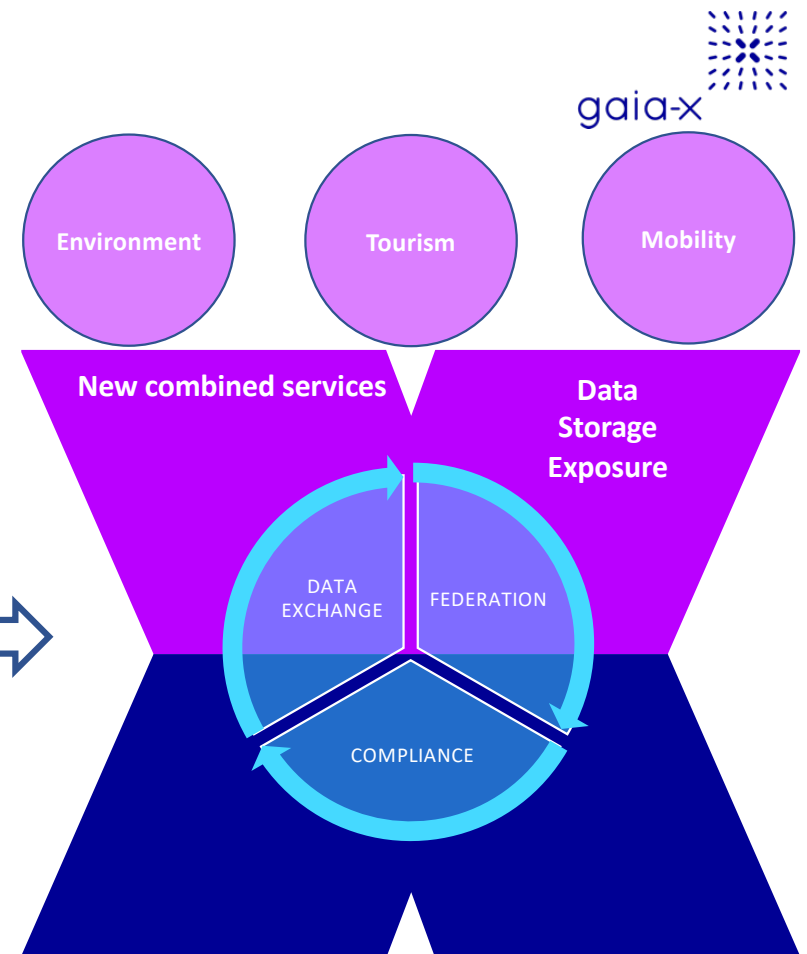


Dufour Storage is a company that has been offering a data storage service for years. Currently it is trying to build a competitive advantage based on the solutions and concepts offered by Gaia-X.

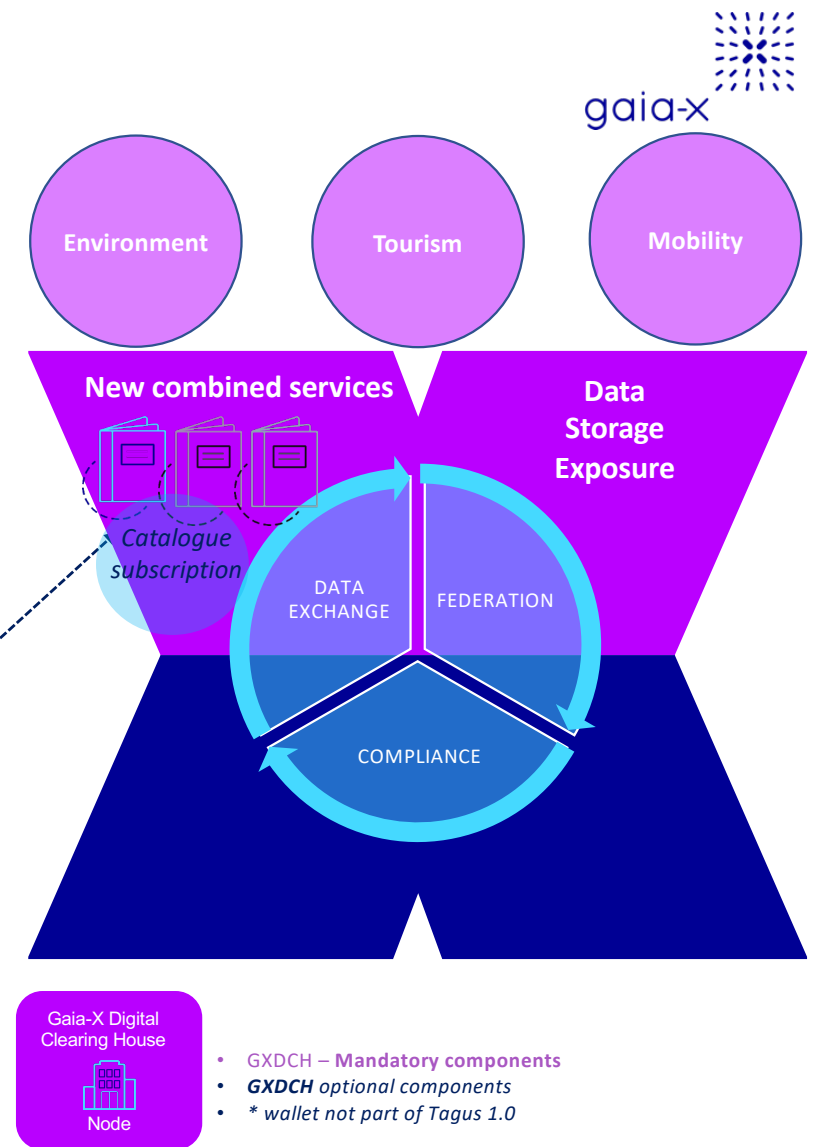
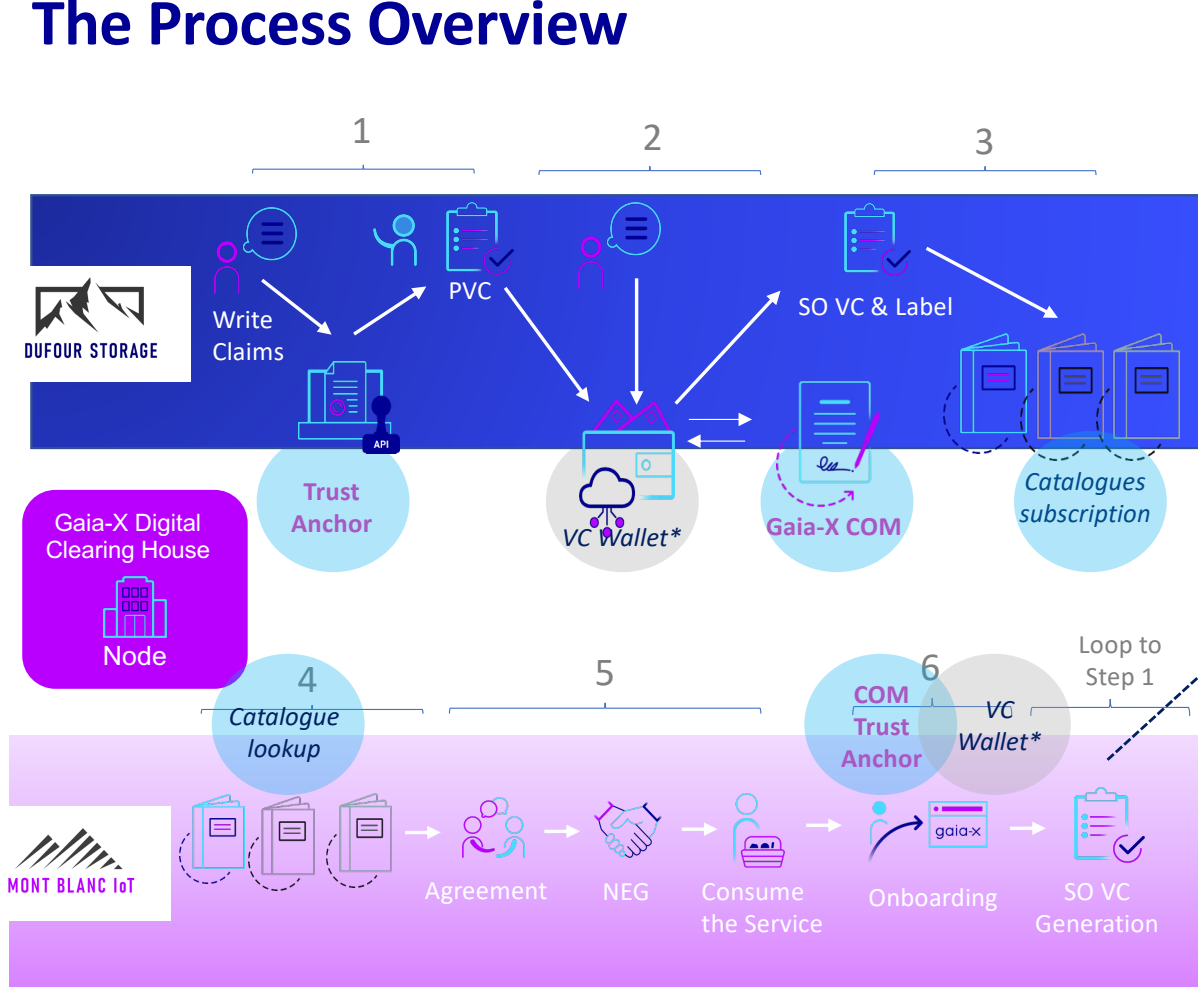


The Mont Blanc IoT company provides its services to the clients based on the IOT concept. Due to the dynamic development, the company is currently looking for safe and trusted data storage.

Gaia-X Digital
Clearing House
Node



The Process Overview



Gaia-X Digital Clearing House – The What



- A GXDCH* is a **node of verification** of the Gaia-X rules
- It is the place to go to **obtain Gaia-X compliance** and become part of the **Gaia-X ecosystem**
- There are **multiple nodes** operated **by service providers**, acting as Federators
- They contain and run Gaia-X Framework **compulsory and optional services**
- The GXDCH services are under **Gaia-X AISBL governance**
- Operating a GXDCH is **open** to all service providers, who comply to the GXDCH operations rules**



* GXDCH: Gaia-X Digital Clearing House

** work in progress, target date March 2023

Gaia-X Digital Clearing House – The How



GXDCH Components*



Gaia-X Registry (compulsory)



Gaia-X Compliance (compulsory)



NOT** (compulsory)



Wizard (optional)



Catalogue (optional)



GXDCH Operations

- Gaia-X Clearing Houses will be distributed across multiple authorized providers to provide resilience and accessibility
- The services must be run in a physical compute node accessible to anyone.
- Each node must be operated by a service provider in compliance with the GXDCH operations rules
- These rules will ensure the integrity of the Gaia-X compliance services

* Current list, may expand in future releases

**NOT-notarization services

Gaia-X Lighthouse Projects



New

The logo for agdatahub, with "ag" in red and "datahub" in grey.

Agriculture

The logo for Catena-X, featuring a stylized orange and yellow "C" icon and the text "Catena-X Automotive Network".

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

Automotive Supply Chain

The logo for ELINOR-X, featuring a circular icon with green and blue segments and the text "ELINOR-X THE URBAN DATA COOPERATIVE".

Urban Data Cooperative

The logo for EONA-X, featuring a stylized "EONA-X" text with a blue and yellow circular icon.

Mobility, Transport & Tourism

The logo for omega-x, featuring a stylized "Ω" symbol and the text "omega-x".

Energy

The logo for EuPro Gigant, featuring a stylized "G" with stars and the text "EuPro Gigant".

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

Manufacturing, Industry 4.0

The logo for Mobility Data Space, featuring a geometric icon and the text "Mobility Data Space".

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

Mobility

The logo for SCSn, featuring the letters "SCSn" in green and blue, with the text "smart connected supplier network".

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

Electronics Supply Chain

The logo for Structura-X, featuring a stylized tree-like icon and the text "Structura-X".

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

Cloud Services

The logo for GAIA-X 4 Future Mobility, featuring the text "GAIA-X 4 Future Mobility".

Mobility, Transport

New Lighthouse Projects in the Gaia-X community



An Energy Data Space to boost the European data economy

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.



A project family located in the mobility domain of the German Gaia-X Hub

The focus of the 6 projects is on the Gaia-X-based implementation of future mobility applications. Due to the product proximity of the applications, data-based networking with manufacturers, suppliers, service providers and users is particularly important. Around 80 players from all application, research and topic areas of mobility, especially information and communication technologies, are involved in GAIA-X4 Future Mobility.

Gaia-X Release Plan

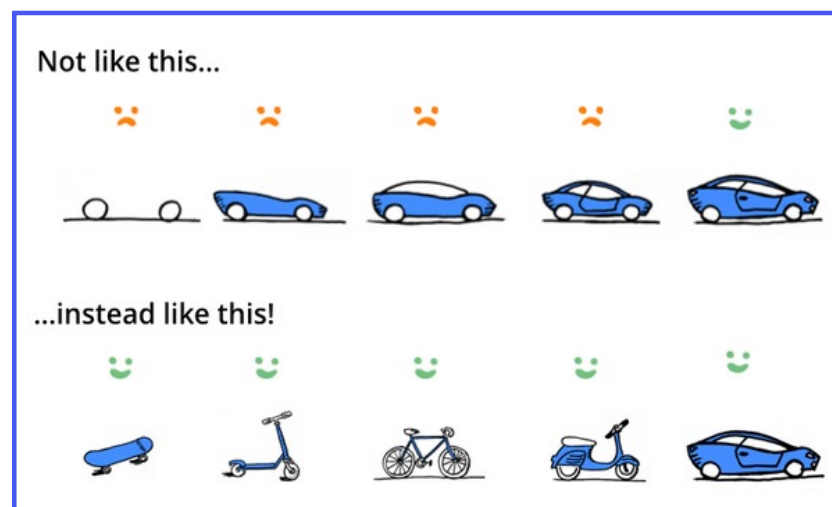


From Vision2Product

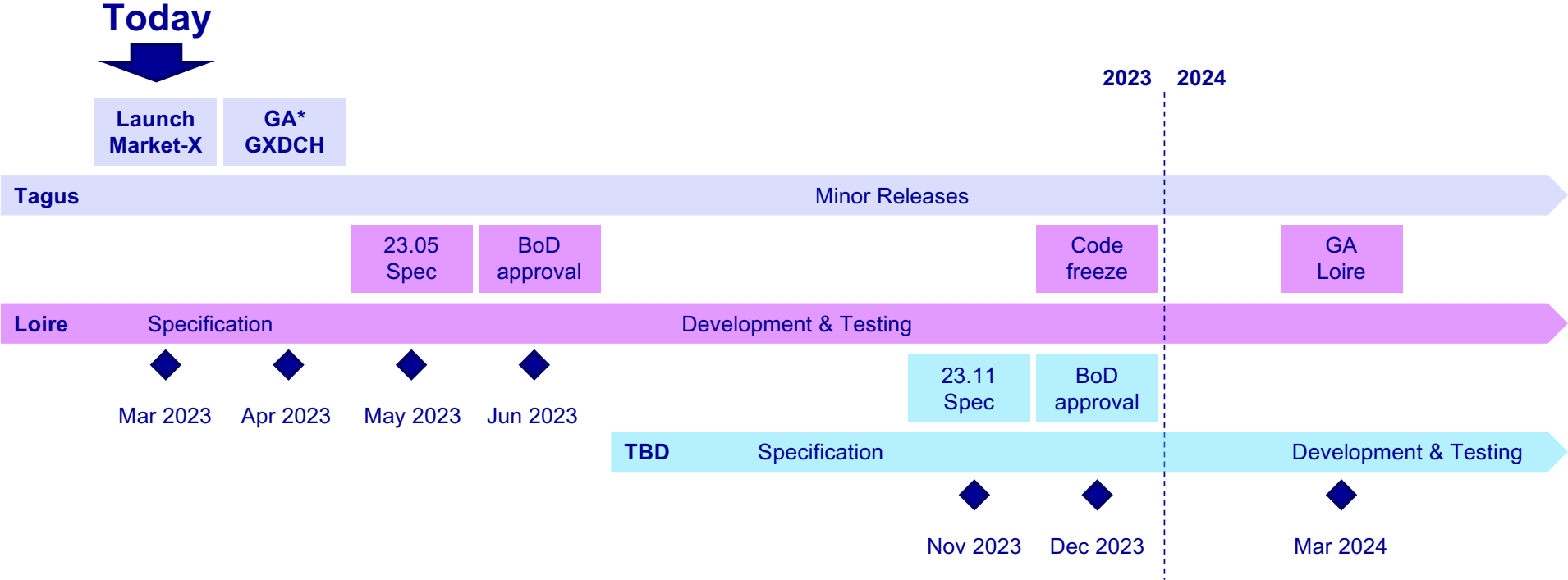
Not a one lump, but an incremental, structured and smart balance between **Time2Market, Vision, Evolution, Reliability**

Gaia-X (GXDCH) Release Definitions

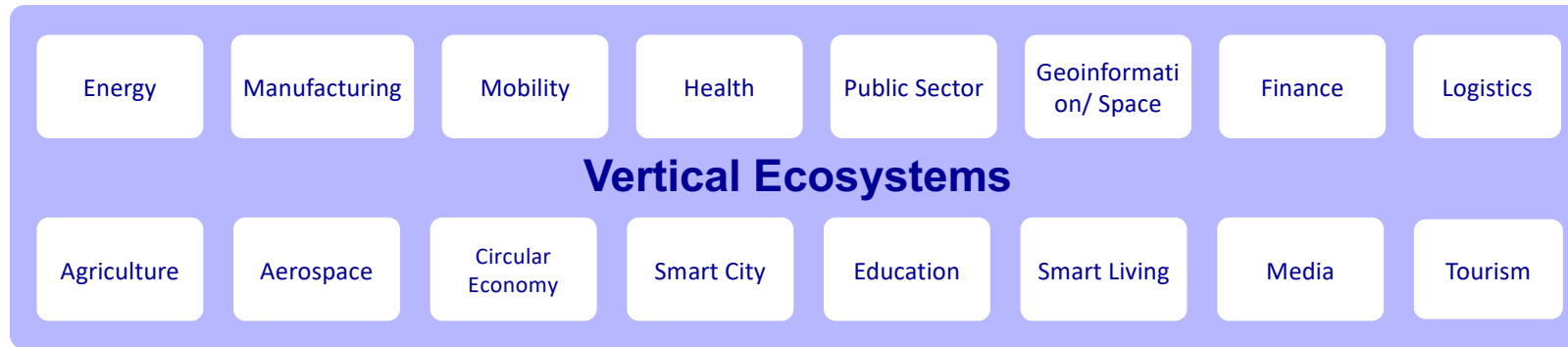
- **Major**
 - Major new features
 - Groups previous patches
 - No back-comp guaranteed
- **Minor**
 - Minor improvements
 - Key fixes
 - Backward compatible
- **Patch**
 - bug fixes for a given release
- **Release Cycle**
 - 6 months (Minor-Major)
 - 12 months (Major-Major)



Gaia-X Release Management



Vertical Ecosystems & Market Adoption



Drive Market Adoption

- identifying projects and leading industry associations
- collecting cross-country use-cases
- sharing data space knowledge
- identifying domain-specific standards

Organizational Implementation

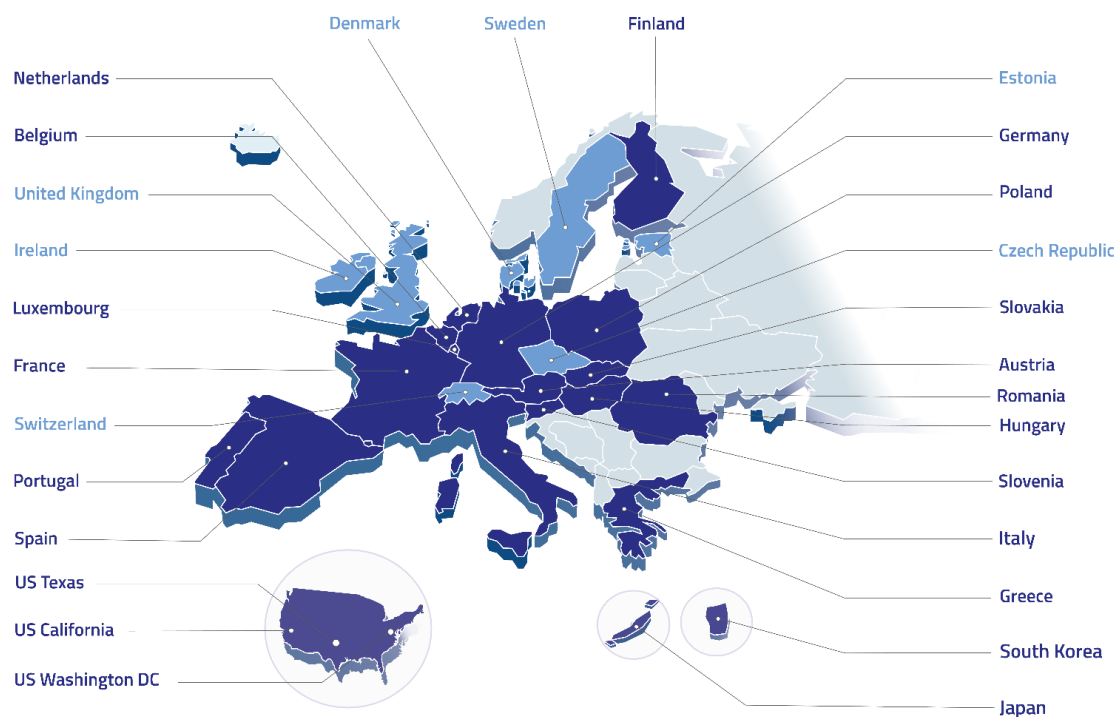
- Coordinated by DSBC
- Under AISBL rules
- Driven by Vertical Leads
- Continuous exchange with HUBs
- Supported by a Market Adoption Manager

Gaia-X - Internationalization strategy



Encompassed by International Hubs

16 EU, 5 Global



The AISBL is international by statutes

- non-EU members are welcome
- DG-Comp asseveration
- EU principles are protected

Gaia-x framework is adaptable

- sovereignty is a need for all EU and non-EU
- regulations cannot be superimposed
- The trust framework is adaptable by design

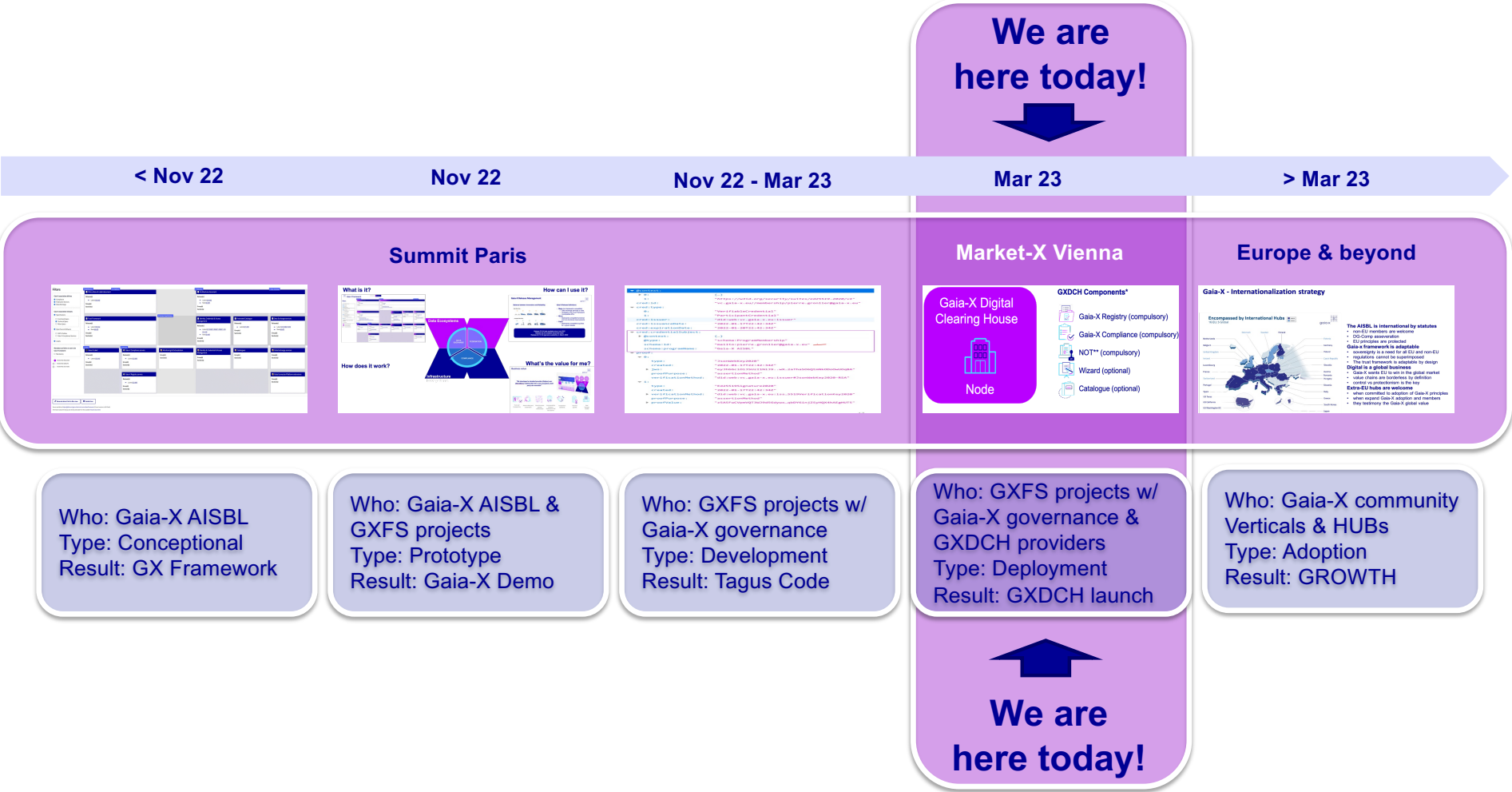
Digital is a global business

- Gaia-X wants EU to win in the global market
- value chains are borderless by definition
- control vs protectionism is the key

Extra-EU hubs are welcome

- when committed to adoption of Gaia-X principles
- when expand Gaia-X adoption and members
- they testimony the Gaia-X global value

Operationalization and Adaption of Gaia-X



Let's grow together!

Gaia-X Association

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