

gaia-x



Market Conference & Expo

Vienna Austria

14 - 15 March 2023

In partnership with  gaia-x
 Hub Austria

Operationalization and Market Adoption of Gaia-X Market – X, Vienna March 2023

Roland Fadrany

COO Gaia-X European Association for Data and Cloud

Operationalization and Adaption of Gaia-X

Today



< Nov 22

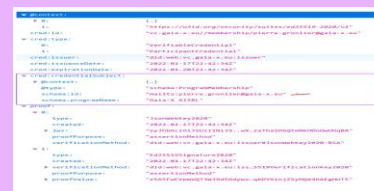
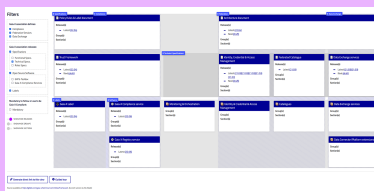
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Nov 22 - Mar 23

Mar 23

> Mar 23

Summit Paris



Market-X Vienna



Europe & beyond



Who: Gaia-X AISBL
Type: Conceptual
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 & GXDCH providers
Type: Deployment
Result: GXDCH 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)

Technical-Specifications

Federation

Architecture document

Release(s)

- Latest:[\(22.04\)](#)
- Next:[\(draft\)](#)

Group(s)

Section(s)

Data-Exchange

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)

Monitoring & Orchestration

Group(s)

Section(s)

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:[\(21.03\)\(21.03\)](#)
- Next:[\(draft\)](#)

Group(s)

Section(s)

Data Exchange services

Group(s)

Section(s)

Data Connector/Platform extensions

Group(s)

Section(s)

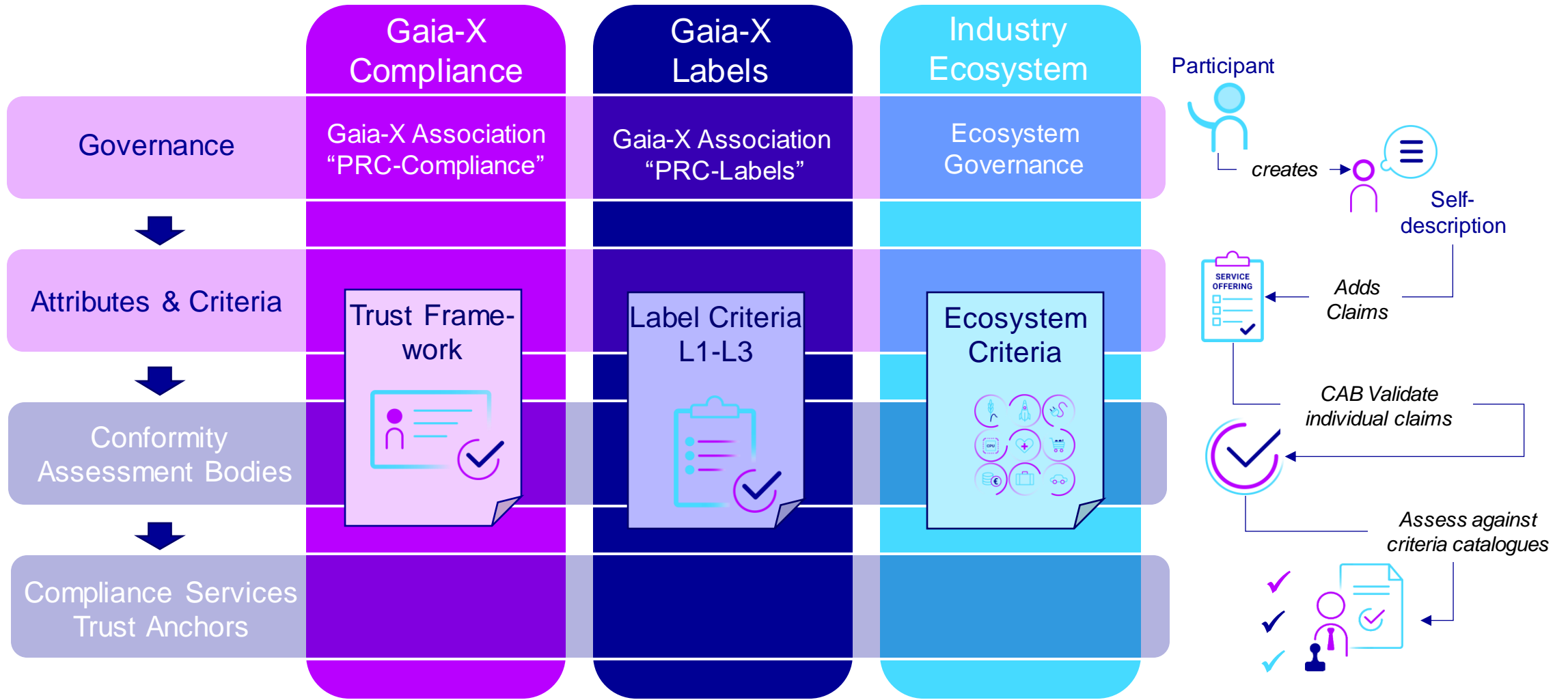
[Generate direct link to this view](#)

[Guided tour](#)

Source available at <https://gitlab.com/gaia-x/technical-committee/framework>. (Current version is e5410adc)

Information about the Groups are directly extracted from the available mission documents

Gaia-X Compliance - Enable Trust & Governance



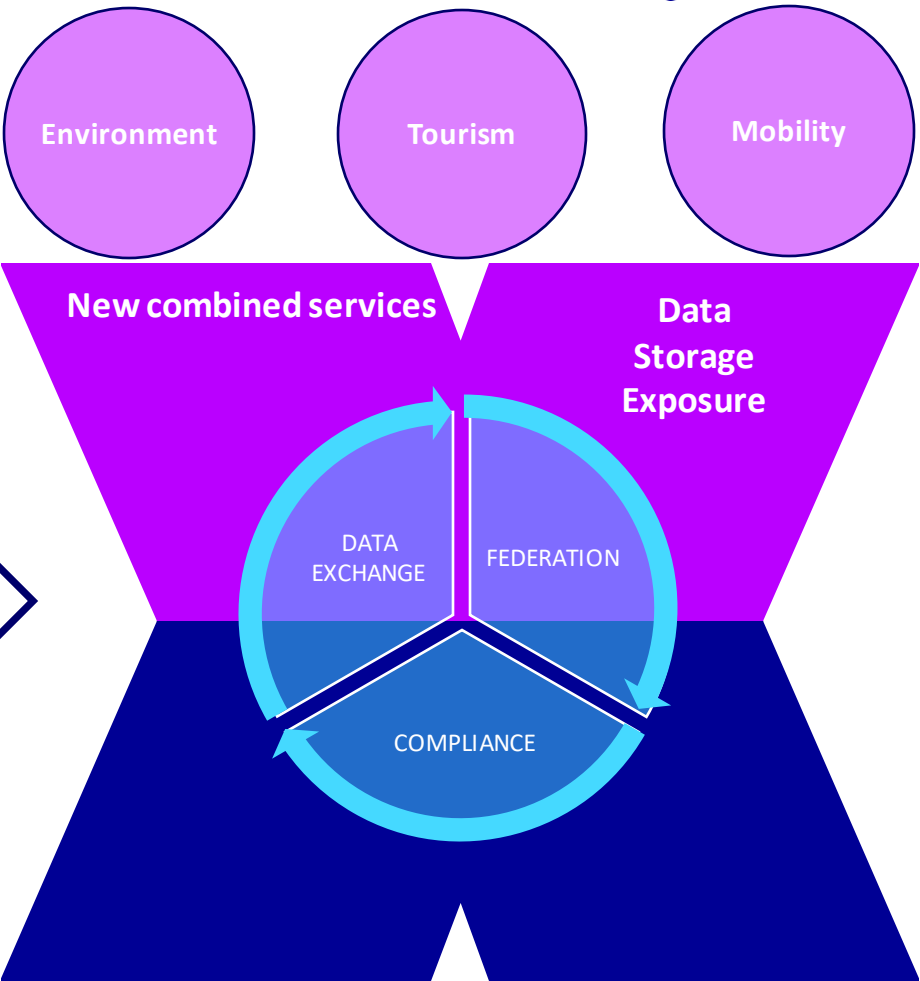
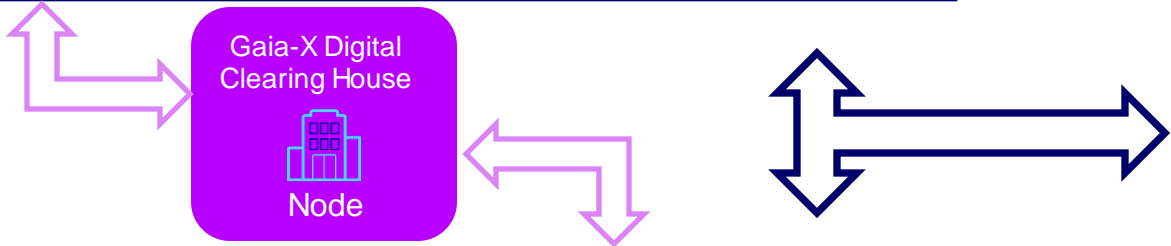
Your Business Scenario



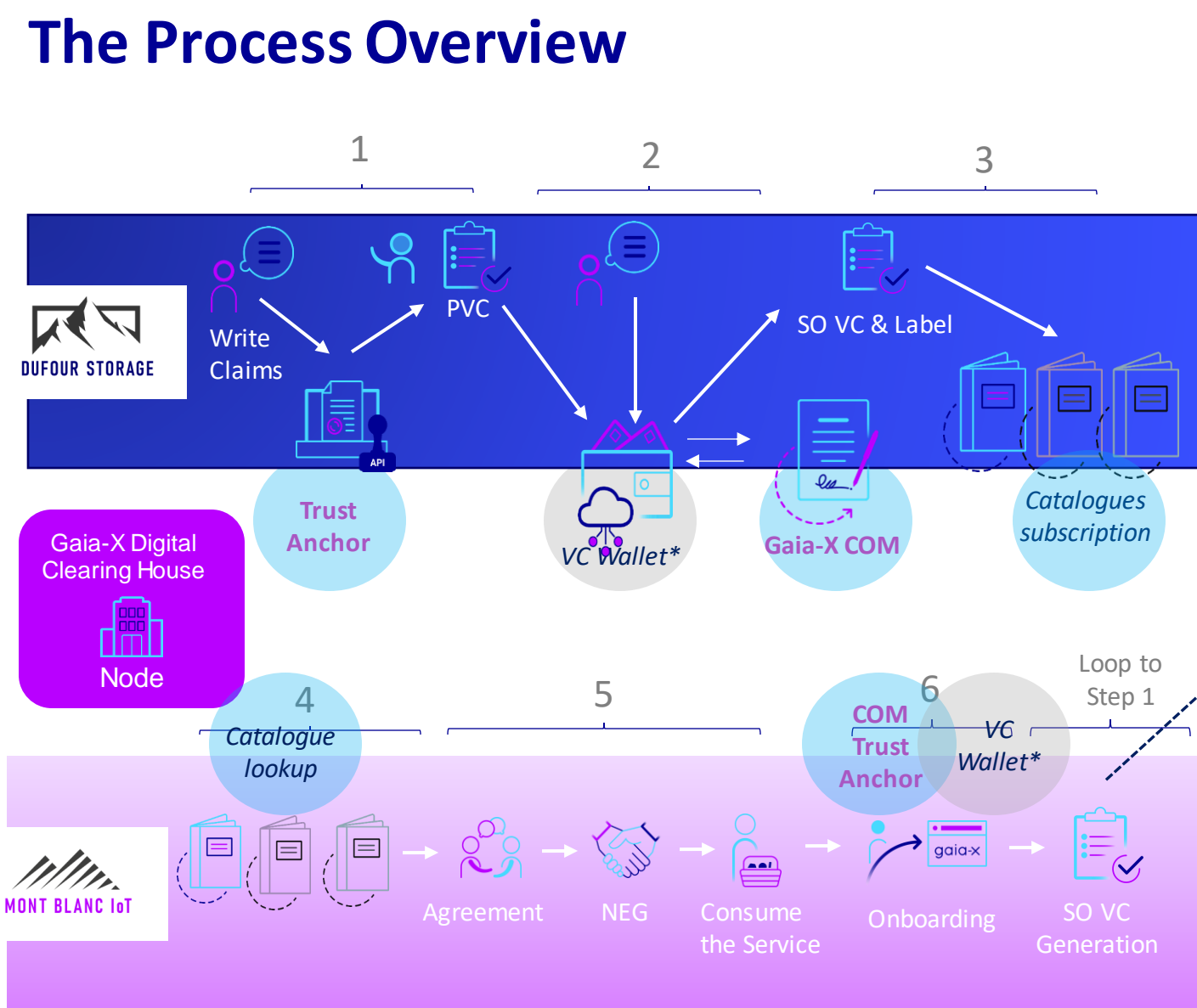
Dufour Storage is a company that has been offering a data storage service for years. Currently it is trying to build a competitive advantage based on the solutions and concepts offered by Gaia-X.



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.

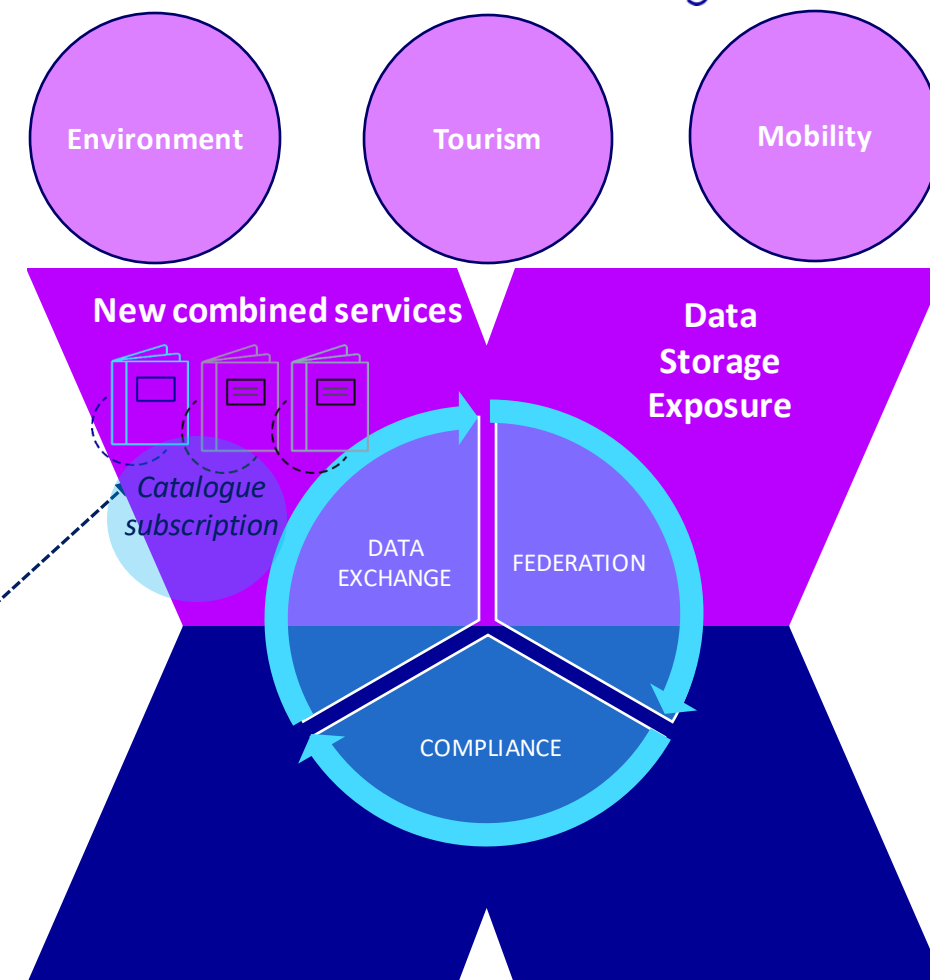


The Process Overview



Legend:

- **NOT** – Notarization service, **VC** – Verifiable Credentials, **COM** – Compliance service, **SO** – service offering
- **SD** – Self Description, **CAT** – Catalogues, **NEG** – Negotiation, **REG** – Registry



- **GXDCH** – Mandatory components
- **GXDCH** optional components
- * wallet not part of Tagus 1.0

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



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



Agriculture



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

Automotive Supply Chain



Urban Data Cooperative



Mobility, Transport & Tourism



Energy



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

Manufacturing, Industry 4.0



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

Mobility



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

Electronics Supply Chain



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

Cloud Services



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.

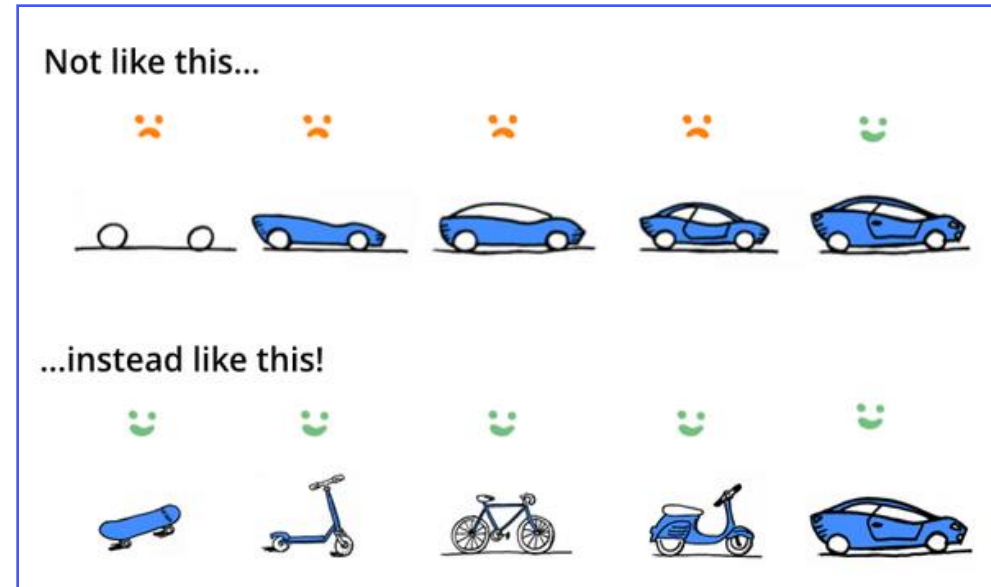
Gaia-X Release Plan

From Vision2Product

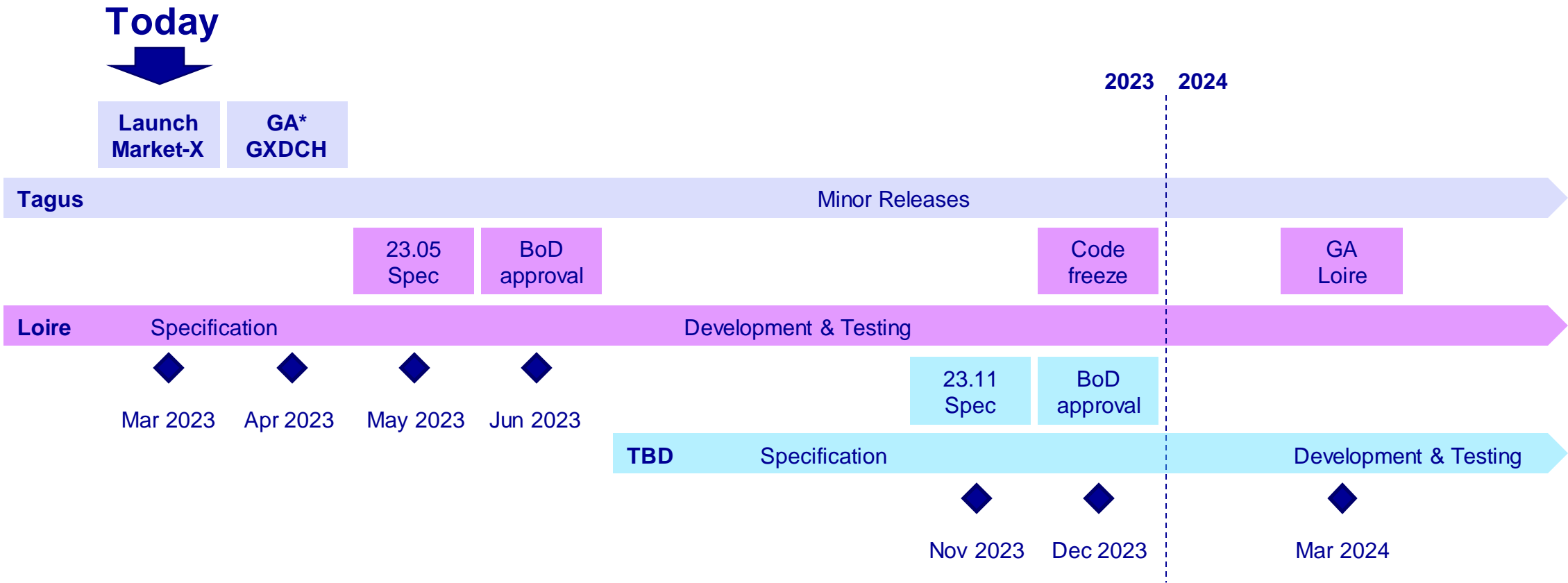
Not a one lump, but an incremental, structured and smart balance between **Time2Market, Vision, Evolution, Reliability**

Gaia-X (GXDCH) Release Definitions

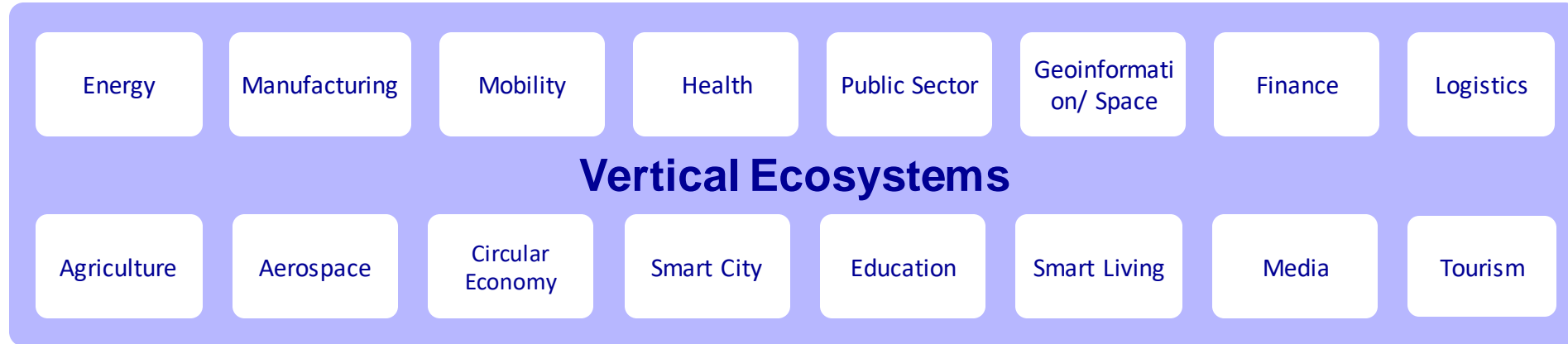
- **Major**
 - Major new features
 - Groups previous patches
 - No back-comp guaranteed
- **Minor**
 - Minor improvements
 - Key fixes
 - Backward compatible
- **Patch**
 - bug fixes for a given release
- **Release Cycle**
 - 6 months (Minor-Major)
 - 12 months (Major-Major)



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

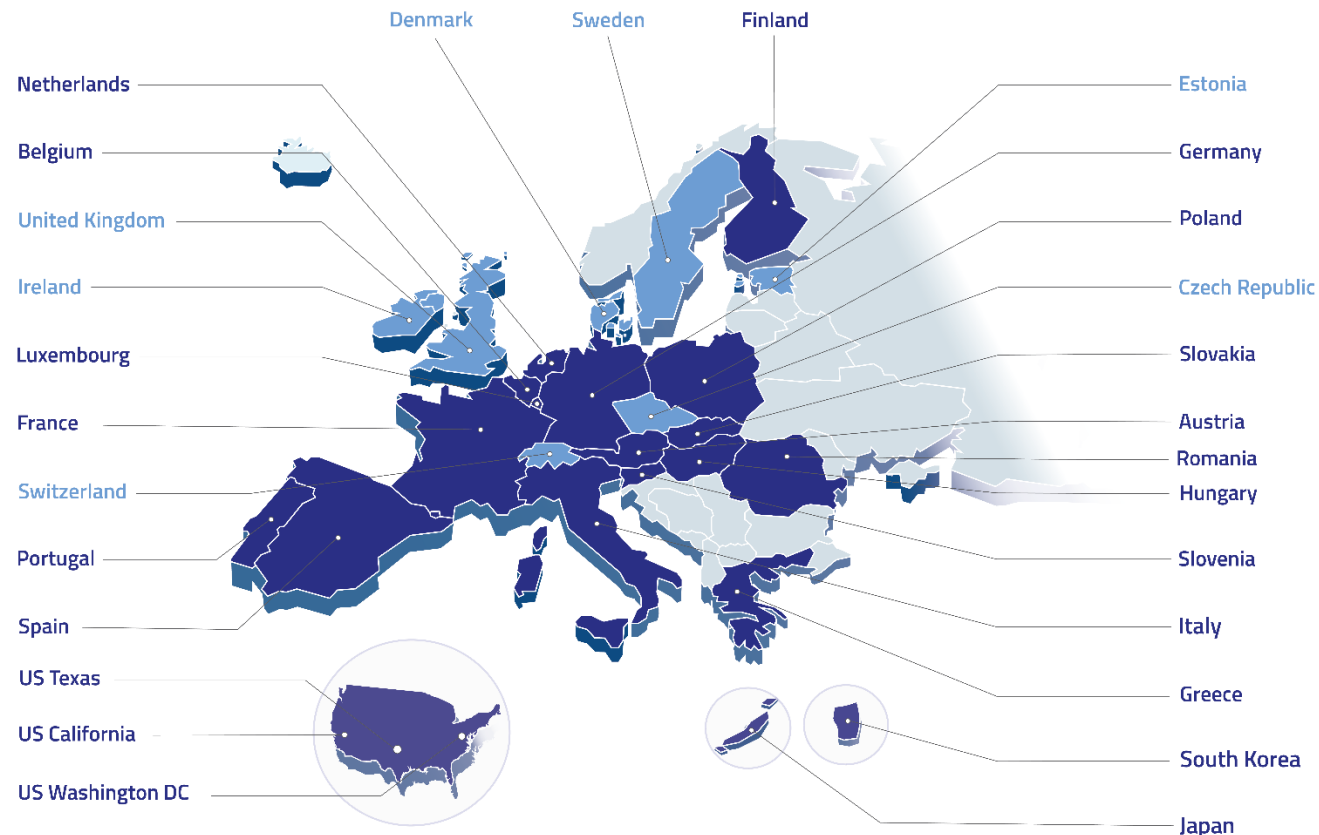
Organizational Implementation

- 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



We are here today!



< Nov 22

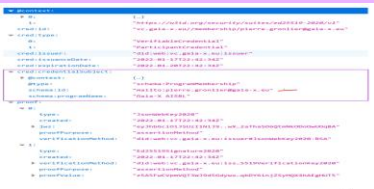
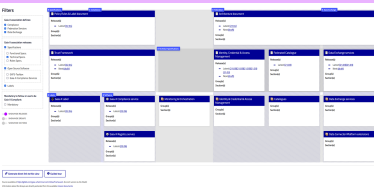
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Gaia-X Digital Clearing House



Node

GXDCH Components*

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- Wizard (optional)
- Catalogue (optional)

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Type: Adoption
Result: GROWTH

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Roland Fadrany, MSc
COO | Gaia-X Association

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Let's grow together!