

Gaia-X State of the Union



The Future of European Digital Ecosystems

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CEO Gaia-X

Who is impacted by Digital Economy?

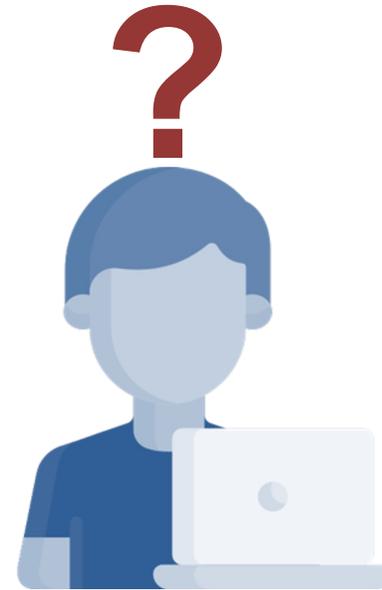


All are impacted! The new Digital Economy is pervasive and driven by **Data Spaces, the digitalization of the value chains,** in economical, social, political, and natural ecosystems.

... Industry 4.0
Data Gathering



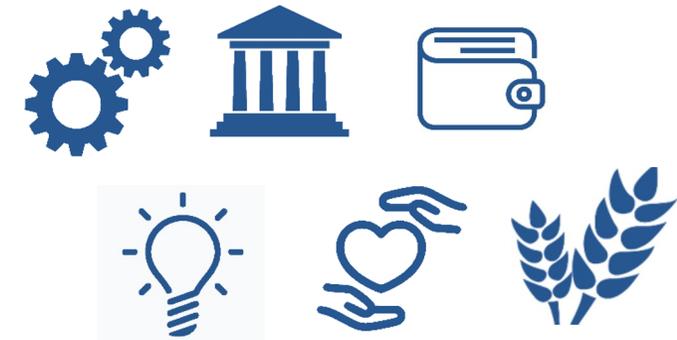
Multiple Interfaces
Segregated Data
Limited Accessibility
Enabling Technology



What's the difference?

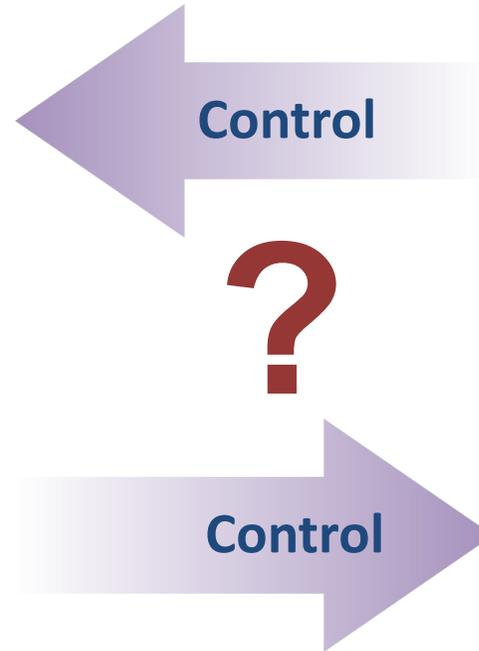


Industry X ...
Data Spaces



Federated Participants
Seamless Data
Full Accessibility
Controllable Technology

No!
Lack of Transparency,
Control & Interoperability



Are our Ecosystems ready?

No! Disjoint Data & Infrastructures Ecosystems



Data

Untapped, fragmented, disjoint, no secure exchange mechanism



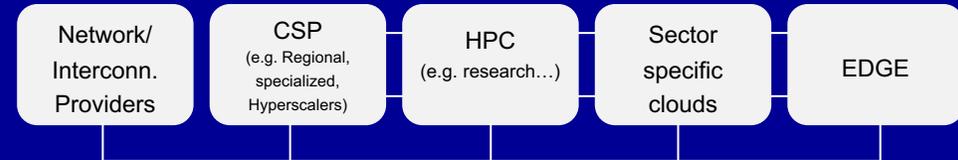
infrastructures

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

Data Ecosystem



Infrastructure Ecosystem



Concentrated Proprietary Opaque



Users LET Control

Trust & Sovereignty



Distributed Open Transparent



Users GET Control

Gaia-X – Connect Disjoint 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.



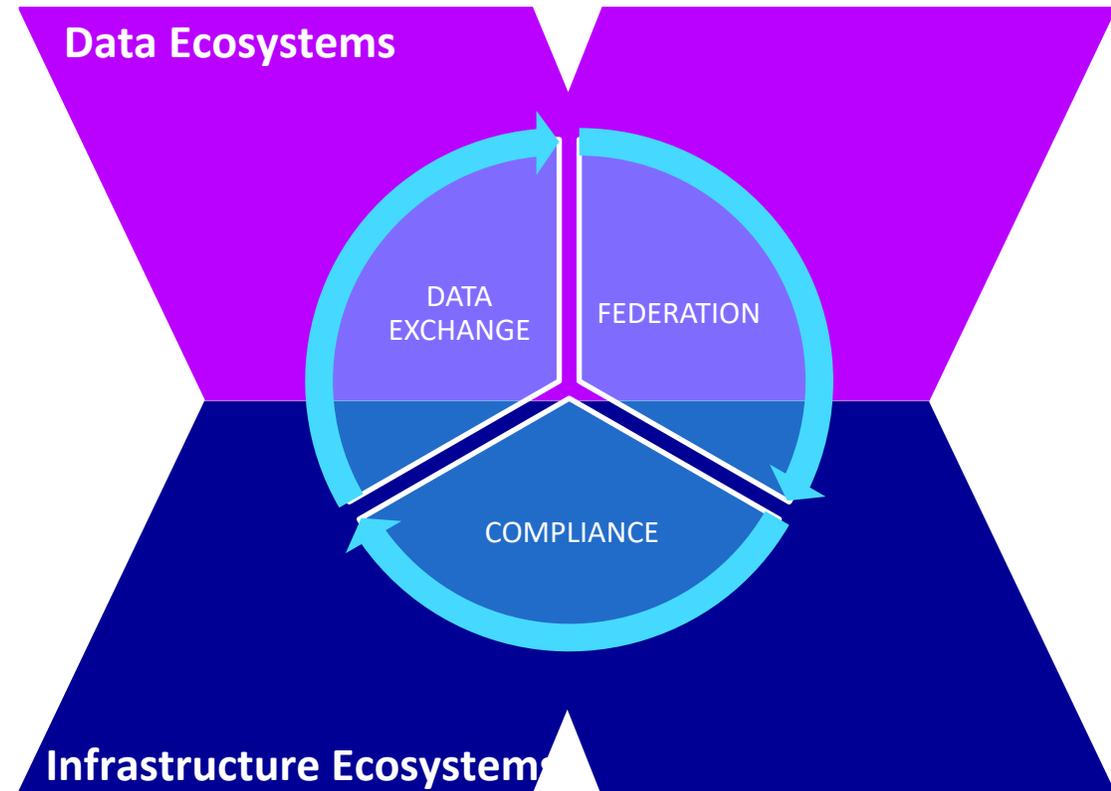
Gaia-X Compliance

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.



Gaia-X Vs European Data Strategy



Common EU Data Spaces A Single Market For Data

Data can flow within the EU and across sectors

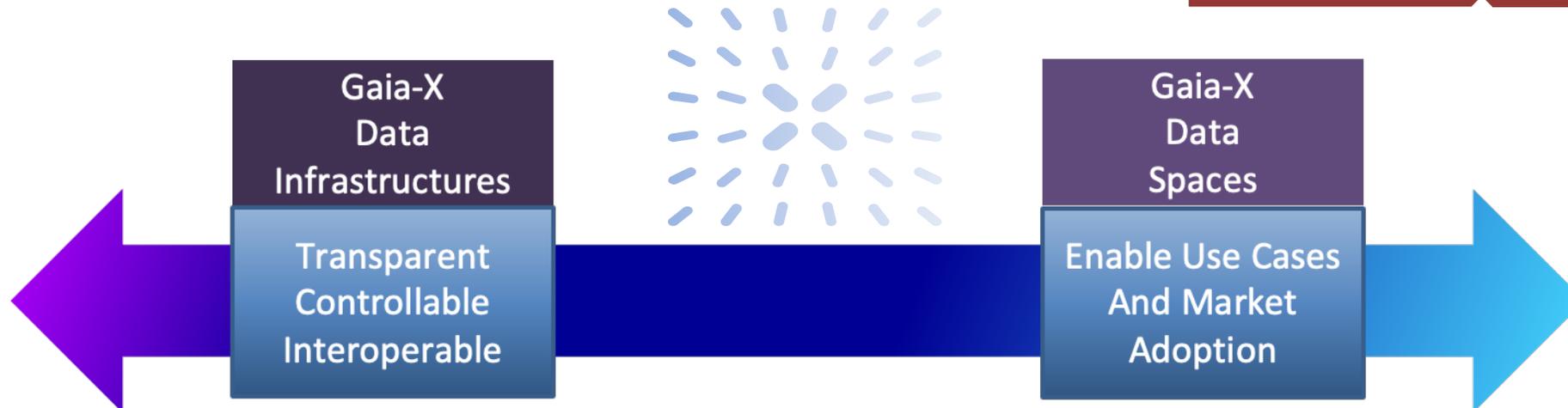
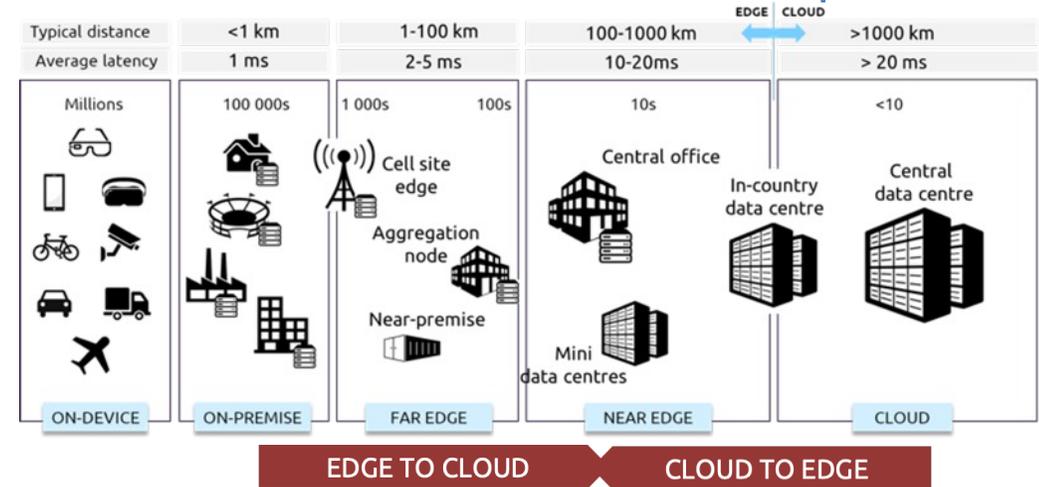
European rules and values are fully respected

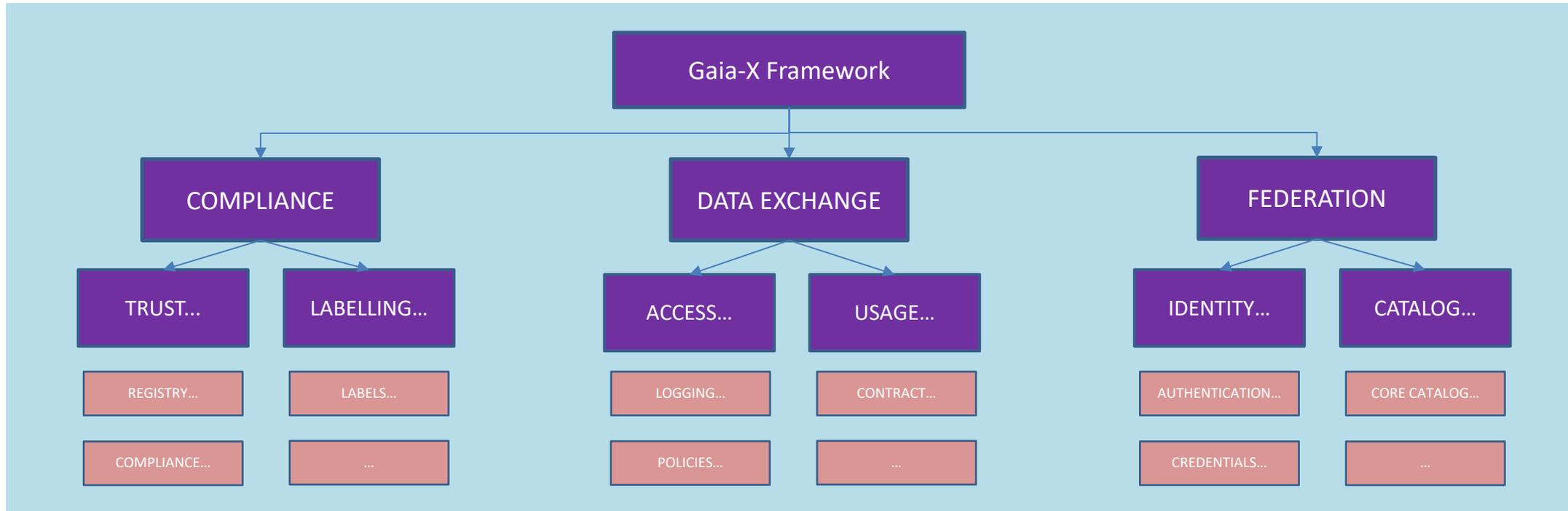


Availability of high-quality data to create and innovate

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

Computing Continuum Fabric for Data Spaces





First time here? [Take the tour!](#)

Filters

Gaia-X association pillars:

- Compliance
- Federation
- Data Exchange

Gaia-X association deliverables:

- 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)

Trust Framework

Release(s)

- Latest(22.04)
- Next(draft)

Group(s)

- Compliance Working Group
- Service characteristics Working Group
- Infrastructure service characteristics Sub Working Group

Section(s)

Federation

Architecture document

Release(s)

- Latest(22.04)
- Next(draft)

Group(s)

- Architecture Working Group
- Service Composition Sub Working Group

Section(s)

Identity, Credential & Access Management

Release(s)

- Latest(21.03)(21.03)(21.03)(21.03)(21.03)

Group(s)

- Identity and Access Management Sub Working

Section(s)

Monitoring & Orchestration

Group(s)

- Open-Source Software

Section(s)

Identity & Credential & Access Management

Group(s)

- Open-Source Software

Section(s)

Data-Exchange

Federated Catalogue

Release(s)

- Latest(21.03)

Group(s)

Section(s)

Data Exchange services

Release(s)

- Latest(21.03)(21.03)
- Next(draft)

Group(s)

- Data Exchange Sub Working

Section(s)

Catalogues

Group(s)

- Open-Source Software

Section(s)

Data Exchange services

Group(s)

- Open-Source Software

Section(s)

Data Connector/Platform extensions

Group(s)

- Open-Source Software

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)

- Open-Source Software

Section(s)

Gaia-X Registry service

Release(s)

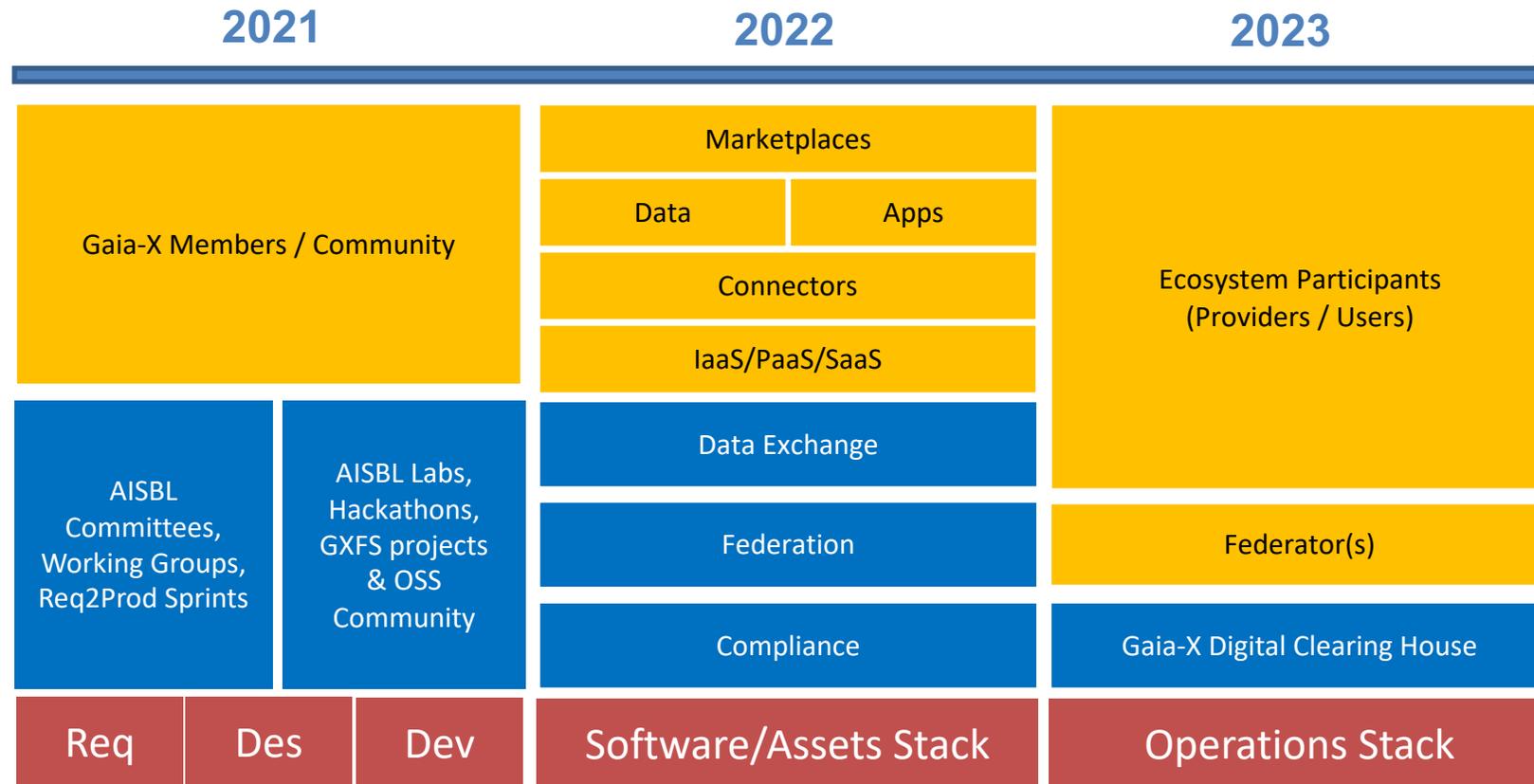
- Latest(22.06)

Group(s)

- Open-Source Software

Section(s)

Gaia-X Framework – From Vision 2 Operations



GXDCH (Gaia-X Digital Clearing House) – What is it



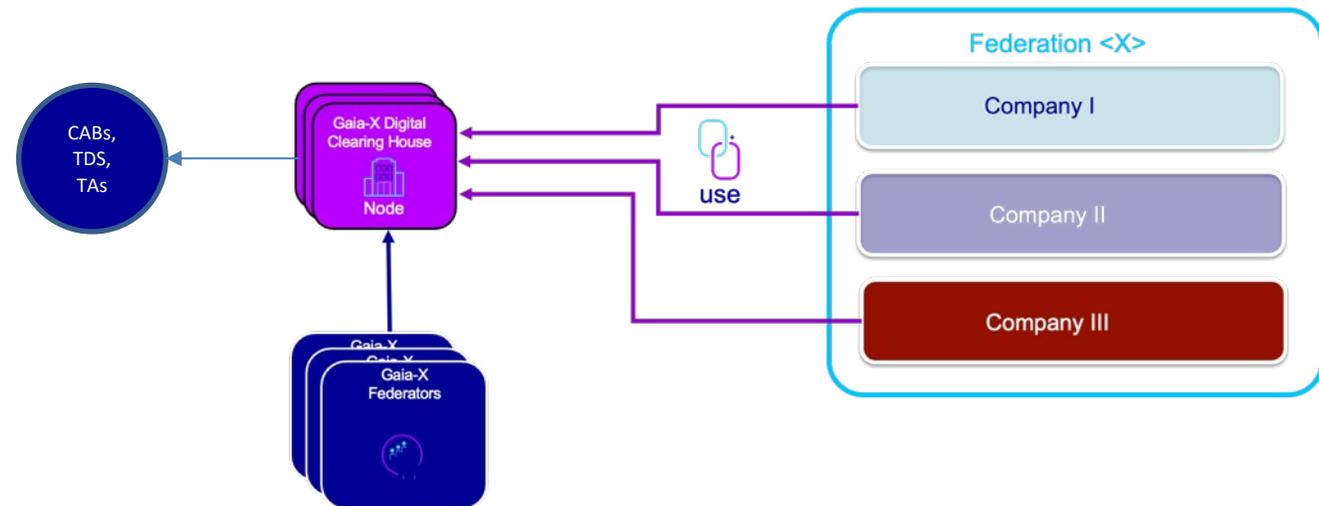
HOW TO?

- how to be Gaia-X compliant?
- how to be in the Gaia-X catalog?
- how to build my own catalog?
- how to build my federation?
- how to join a federation?

...

THE GXDCH:

- Are nodes of verification of Gaia-X rules.
- Are places to obtain Gaia-X compliance & become part of the Gaia-X ecosystem.
- Are multiple nodes operated by market operators, acting as a Gaia-X Federator
- Run services (compulsory and optional) part of the Gaia-X Framework, and necessary achieve compliance and support the onboarding of any Gaia-X adopter.
- Integrate with external TA (Trust Anchors) to verify identity (e.g. eIDAS), CAB (Conformance Assessment Bodies) asseverating conformance to existing standard, and other TDS (Trusted Data Sources)



Gaia-X State of Play



Gaia-X 5 Years Outlook 2022



WALKING THE TALK



2021-Setup



2022-Adopt



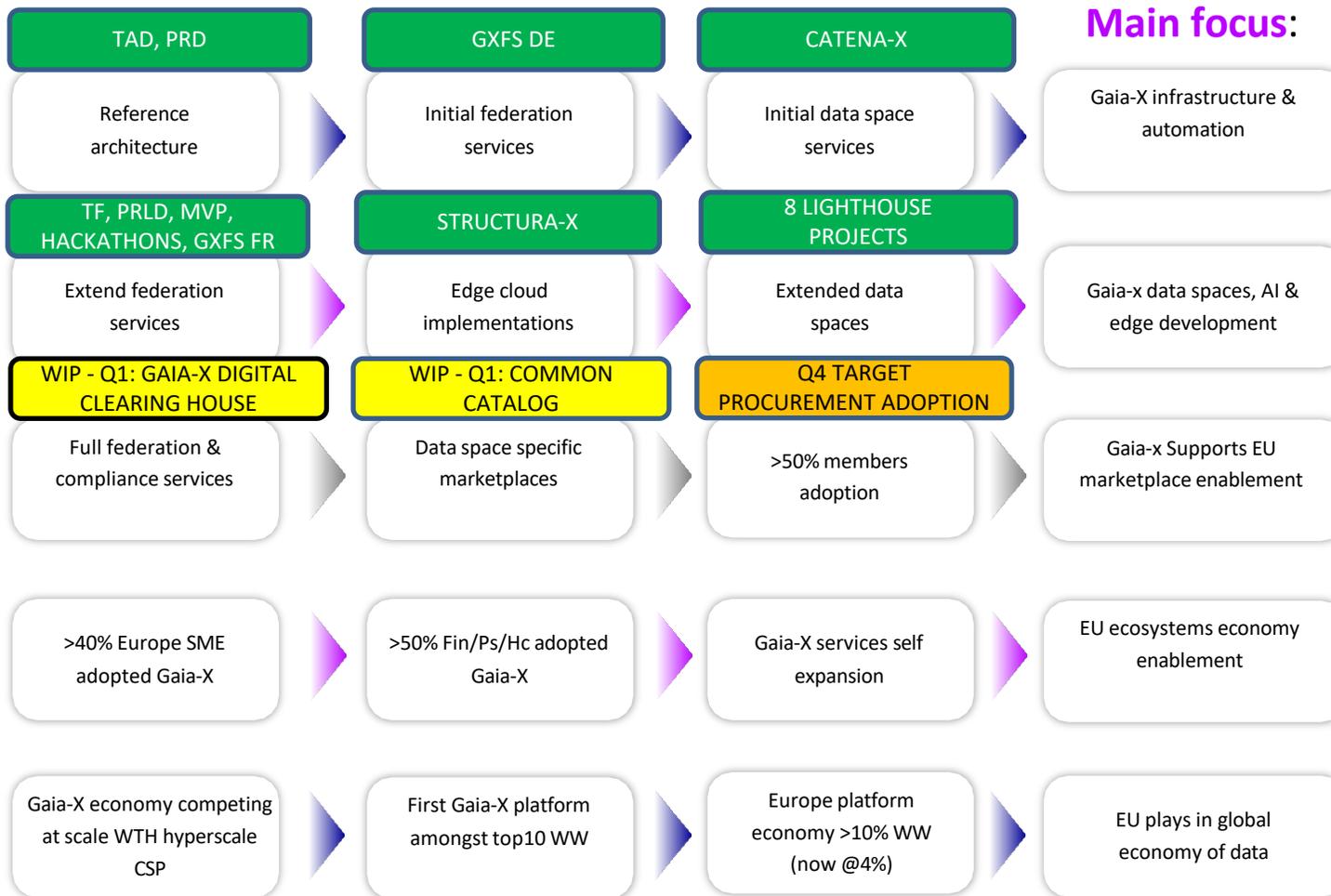
2023-Grow



2024-Expand



2025-Scale



AISBL push



Market pull

Gaia-X Lighthouse Projects 2022



FROM USE-CASES TO BUSINESS-CASES



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

Agriculture



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

Automotive Supply Chain



ELINOR-X
THE URBAN DATA COOPERATIVE

Urban Data Cooperative



<https://eona-x.eu/>

Mobility, Transport & Tourism



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

Manufacturing, Industry 4.0



Mobility Data Space

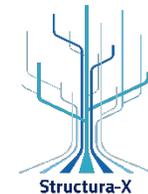
<https://mobility-dataspace.eu/>

Mobility



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

Electronics Supply Chain



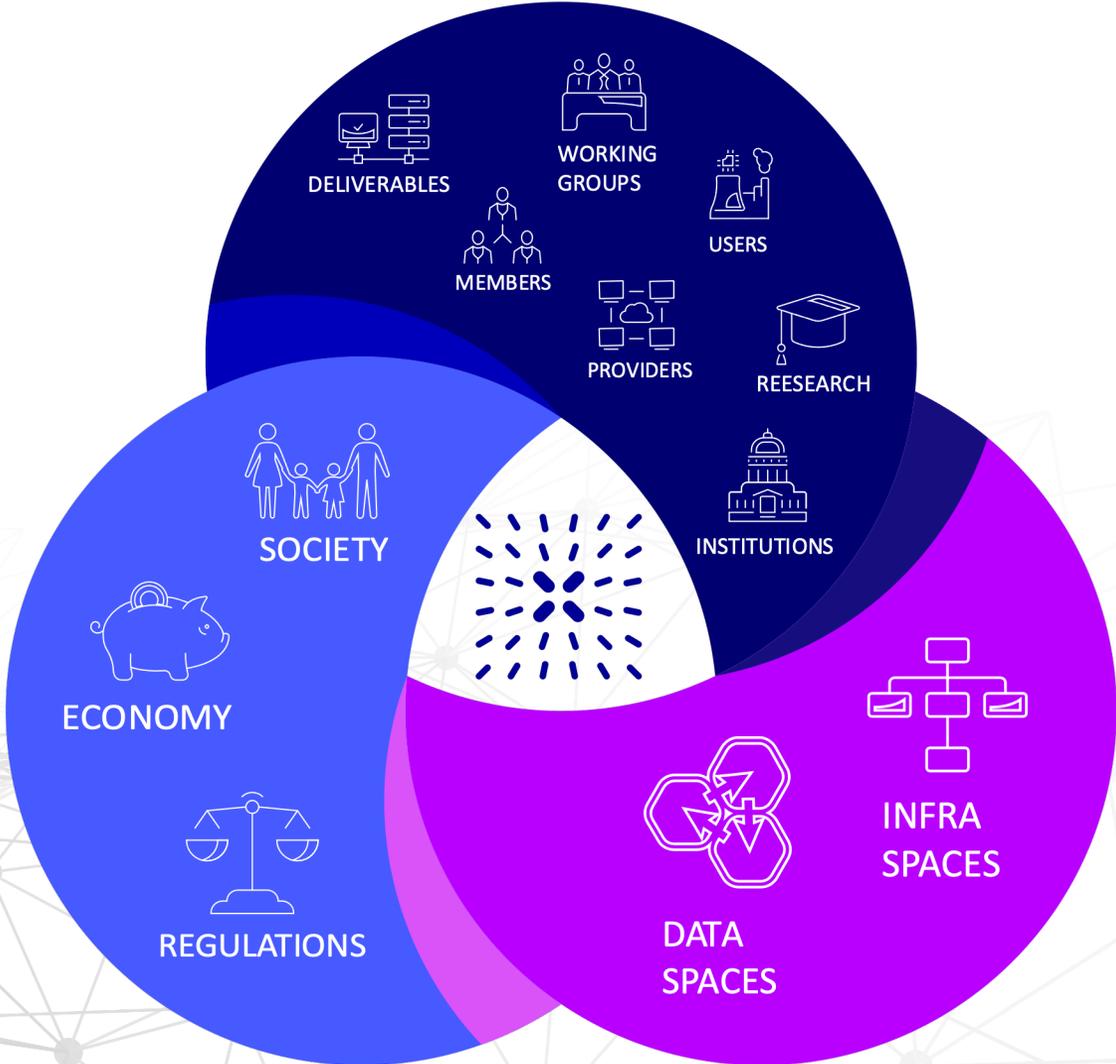
<https://bit.ly/3aJYgZL>

Cloud Services

The Gaia-x network expands!



Gaia-X - The European Union for Data Economy!



Thank you!

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