LUXEMBOURG GAIA-X CONFERENCE

25 MARCH 2021

INTRODUCTION TO GAIA-X CHALLENGES & OPPORTUNITIES

HUBERT TARDIEU
CHAIRMAN OF THE BOARD
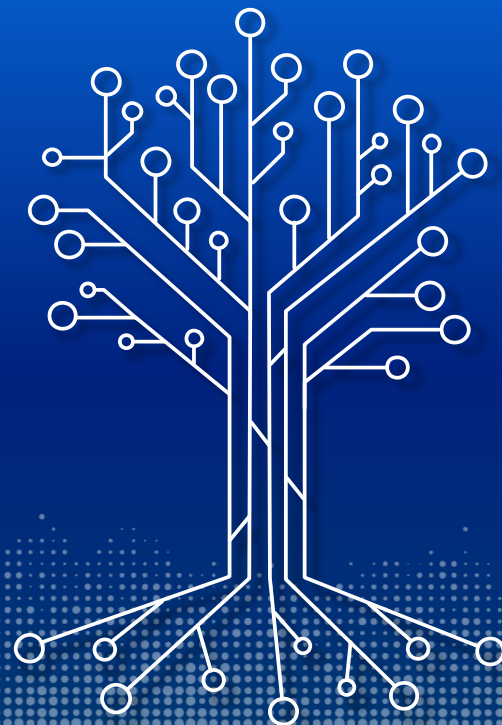GAIA-X AISBL

CCEL | FEDIL | | ICTLUXEMBOURG | LUXINNOVATION
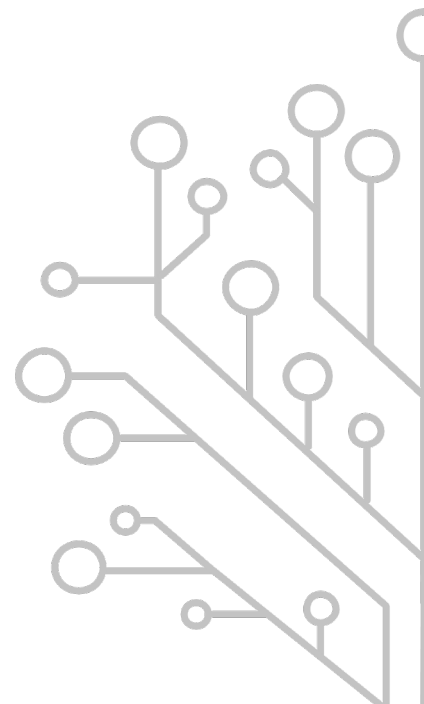
Agenda

01 Introduction GAIA-X

02 Data Space Facilitation and the role of National Hubs
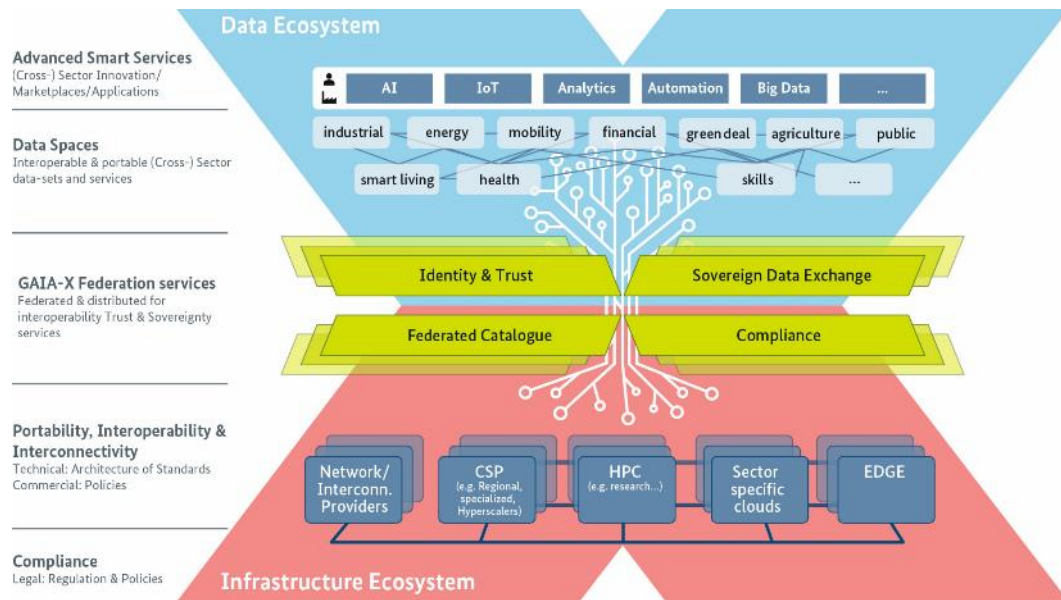
03 The AISBL Status and Organization

04 Outlook – 100 Days ahead

05 Summary

Overview: GAIA-X provides a user-friendly and homogenous ecosystem

Joint Development of a **user friendly** and **homogenous European ecosystem**.

Bringing together **data spaces** and their **specific requirements** with the **provider side**.

The GAIA-X objectives

The GAIA-X objectives

Objectives	Policy Rules
	Apps portab&interop
	Data & Software
	Infra portab&interop
	Infrastructure

The GAIA-X objectives

Objectives	Policy Rules	Architecture of Standards
	Apps portab&interop	
	Data & Software	Ontology Data Information API — By Industry vertical / Data / PaaS — X-CSP
	Infra portab&interop	
	Infrastructure	IAM / Self Description / Network & Interconnects / IaaS
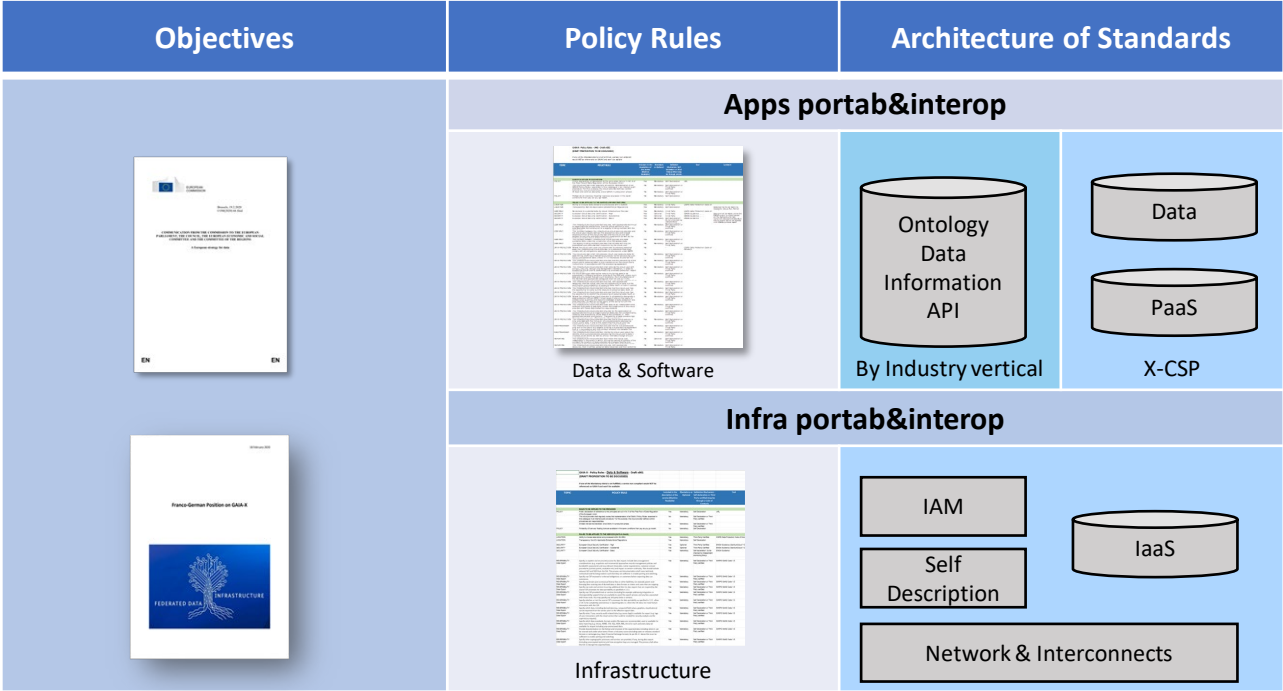
The GAIA-X objectives

GAIA-X Federation Services – The Core

Data Ecosystem

…the implementation of secure **Federated Identity and trust** mechanisms (security and privacy by design).

…**Sovereign Data Services** which ensure the identity of source and receiver of data and the access and usage rights towards the data.

…easy access to the available providers, nodes and services. Data will be provided through a **Federated Catalogue.**

…the establishment of a **Compliance** framework and Certification and Accreditation services.

Infrastructure Ecosystem

GAIA-X identifies the minimum technical requirements and services necessary to operate **the Federated GAIA-X Ecosystem**. The development of these services will follow the principles of **Security-by-Design** and also include the concept of **Privacy-by-Design**.

GAIA-X

GAIA-X AISBL Core Deliverables

1. Standard
- Architecture of Standard
- Test Criteria

2. Fundamental Services
- Digital Tokens/Certificate
- Service Catalog
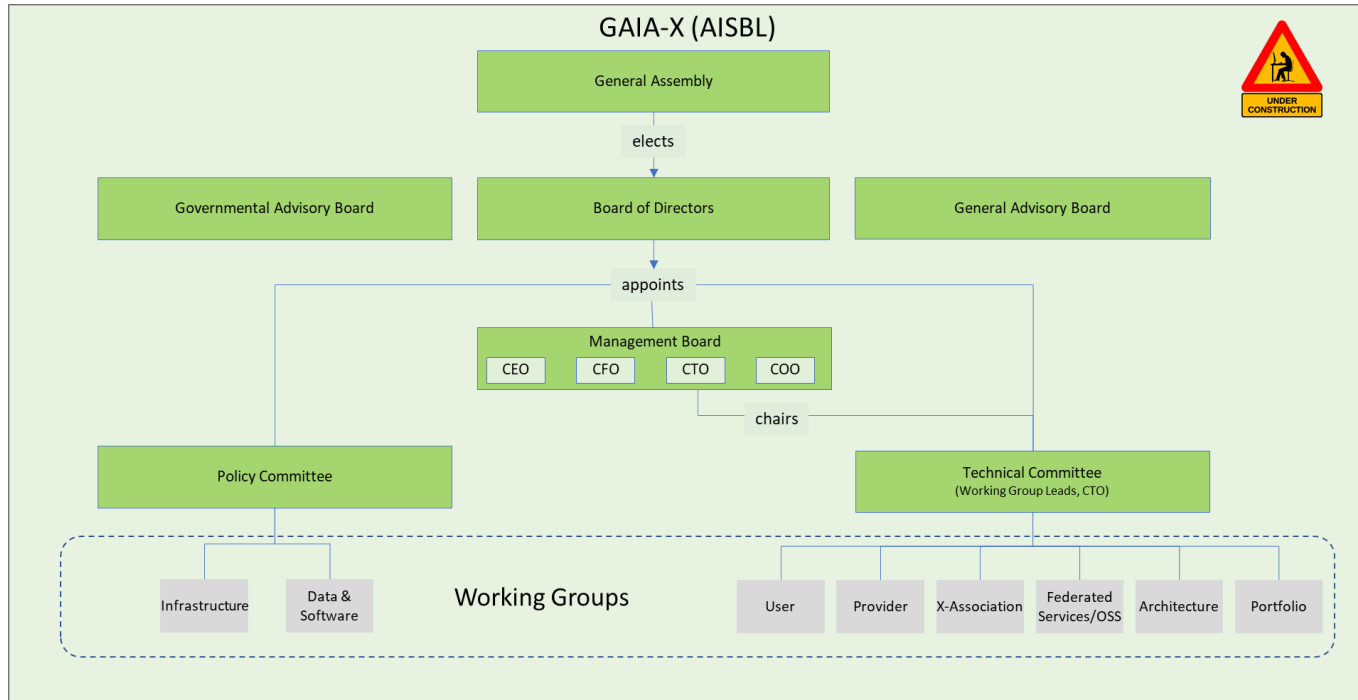
3. Software Communities
- Open Source Federated Services
- Interaction with other Communities

4. Data Spaces Facilitation

GAIA-X AISBL Organizational Structure

Overview Memberships by Type

Countries by Registration		# of Organizations *
Austria		2
Belgium		13
Finland		3
France		33
Germany		49
Ireland		4
Italy		29
Luxembourg		3
Netherlands		4
Norway		1
P.R. China		1
Portugal		1
Singapore		1
Spain		5
Sweden		2
Switzerland		1
United Kingdom		2
USA		5
Total		**159**
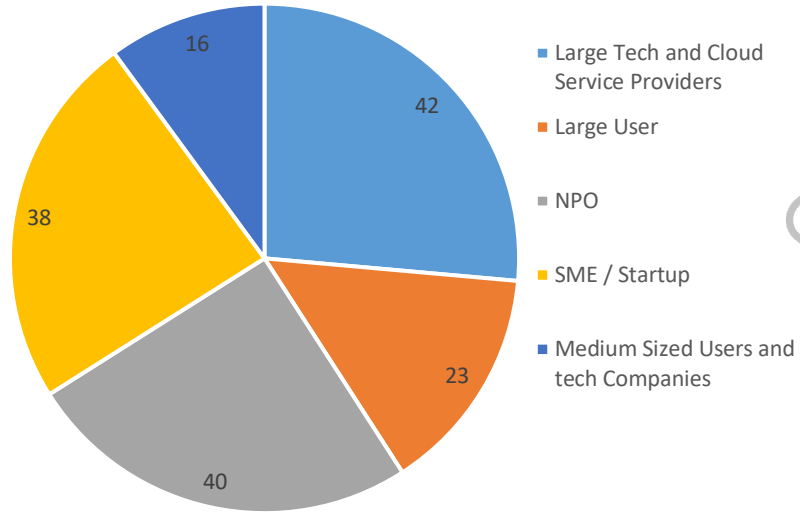
*Including SME, Large Corporation and Academic Institutions

- Large Tech and Cloud Service Providers
- Large User
- NPO
- SME / Startup
- Medium Sized Users and tech Companies

xyz

Data Spaces: Sharing data to advance science, society and economies
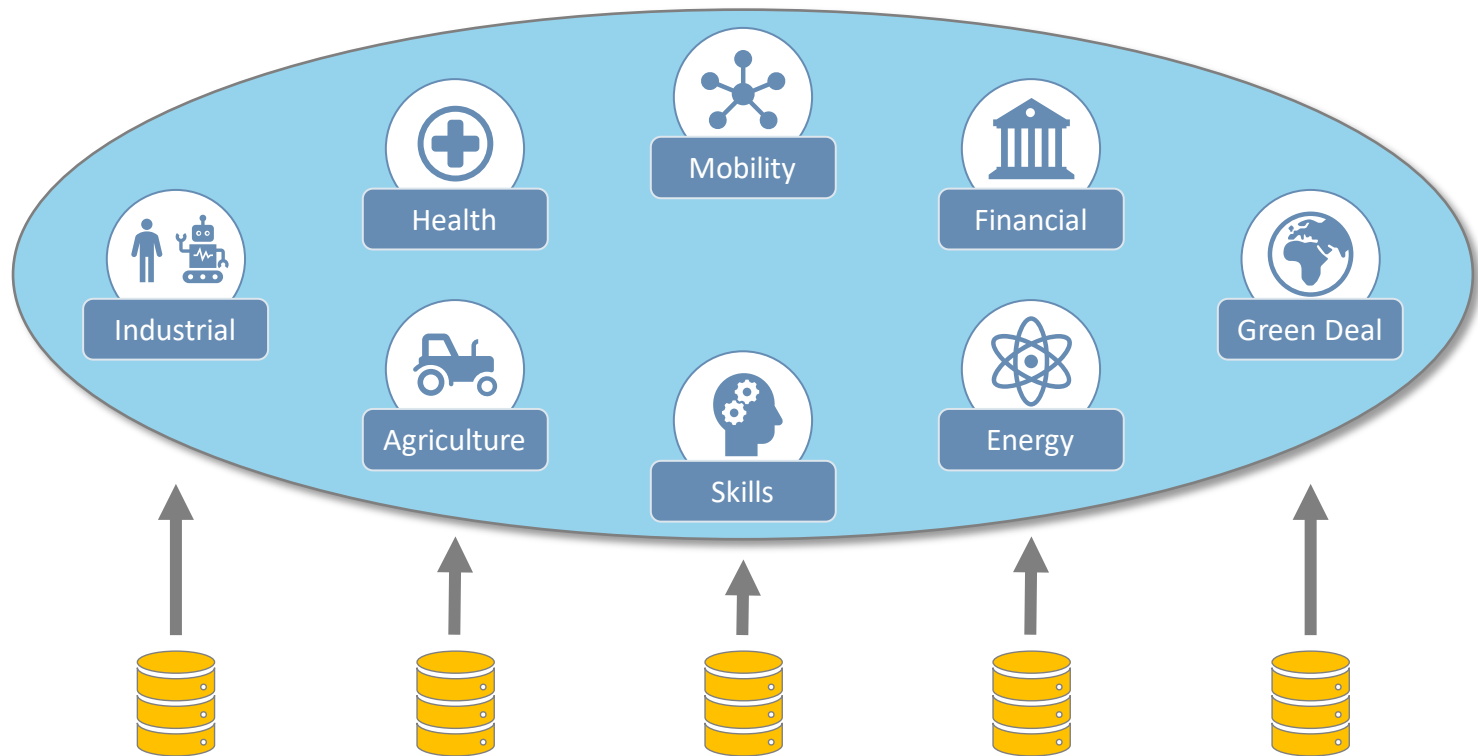
Data Spaces

General Design Principles	No physical data integration, leave data where it is (→ Federated data architecture)
	No common schema required (→ Integration foremost on semantic level through vocabularies)
	Data networking, data visiting and data co-existence
	Nesting and overlaps possible (→ Ecosystem of data spaces)

| Additional IDS[1] Design Principles | Data sovereignty and traceability |
| | Trusted participants |
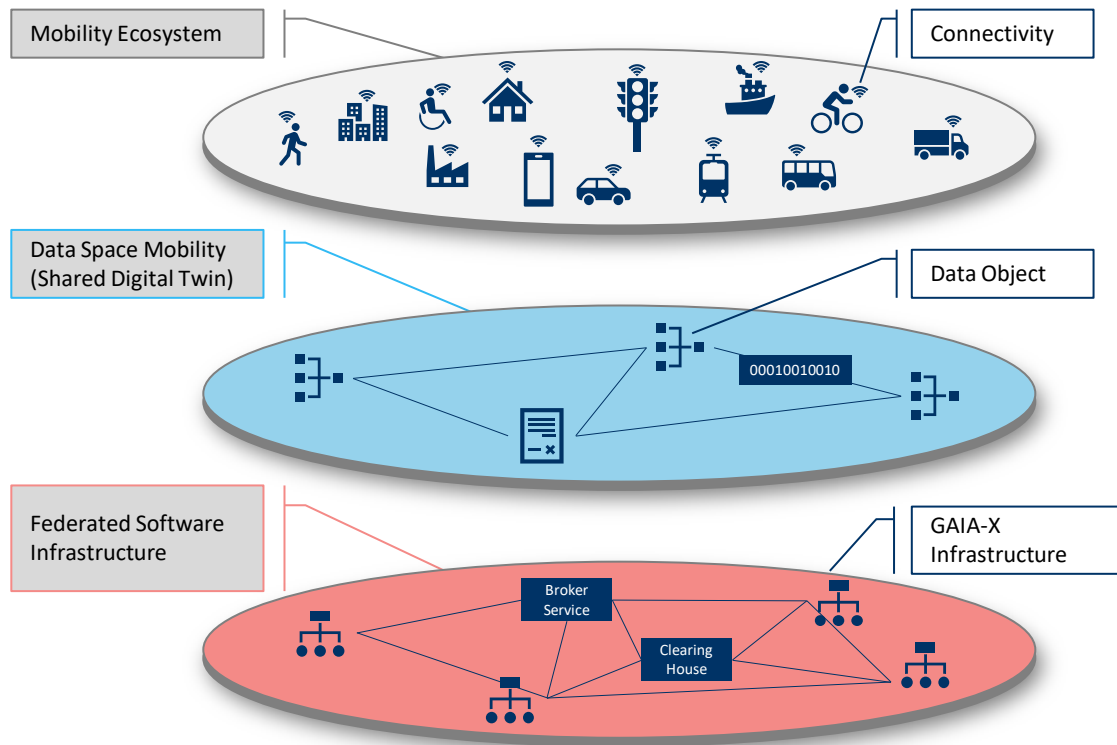
[1]IDS – International Data Spaces

Mobility Ecosystem

Connectivity

Data Space Mobility (Shared Digital Twin)

Data Object

00010010010

Federated Software Infrastructure

GAIA-X Infrastructure

Broker Service

Clearing House

GAIA-X

National Hubs

Set up and establish a well-functioning sovereign data infrastructure following GAIA-X policy rules and standards and the required federation services.

GAIA-X User Hubs

→ Focus on bundling user interest across Europe to facilitate the scaling up of GAIA-X use case and data spaces

Supporting its endeavour

Participants engage in the GAIA-X-Association and its work processes

will prioritize certain domains where intense cooperation with the Hub is envisaged

Not acting as subsidiaries of the GAIA-X-Association

MoUs[1] underline the cooperation in the intended network

GAIA-X-Association

→ Has the exclusive responsibility for the policy rules and standards

→ Defines overall Data Space structure in line with EU Data Strategy to ensure technical and semantic interoperability

[1]MoU - Memorandum of Understanding

GAIA-X

Under Evaluation
Sweden

Established
Finland

In Progress
The Netherlands

In Preparation
Luxembourg

Established
Germany

In Progress
Belgium

In Preparation
Slovenia

Established
France

In Progress
Italy

Timeline

Q4

End of 2020

18. - 19.11.2020
GAIA-X Summit

6 national GAIA-X hubs

Q1

Beginning Jan
Day 2 Re-Opening

Early Q1
Prefiguration of European Alliance on Industrial Data and Cloud

Technical Deep Dive Sessions

Webinar "Policy and Rules"

Webinar "Economy of Data"

Webinar "Edge Cloud"

Q2

Architecture of Standards Rel. 03.21

Technical Architecture Document Rel. 03.21

GAIA-X Policy Rules Rel. 03.21

1st Data Spaces

Federation Services Specification

Mid June
Technical Architecture Document Rel. 06.21

1st General Assembly

By June
Additional national hubs to expand coverage

End June
Election of the 1st Board of Directors

Q3

Federation Services alpha

Demonstrator on verticals

GAIA-X Policy Rules Rel. 09.21

November	December	January	February	March	April	May	June	July	August	September

2020	2021

A European Momentum towards a…

…global "Digital for Business" approach

GAIA-X: A GERMAN APPROACH TO A EUROPEAN PROJECT

PETER KRAEMER
COORDINATOR
GERMAN GAIA-X HUB

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GAIA-X : a German approach to a European project

Peter Kraemer, Coordinator of the German GAIA-X Hub

March 25, 2021

Activate and represent the user side

Identify suitable use cases – from both a qualitative and a quantitative perspective

Analyse and evaluate the **requirements** of **use cases** from **different domains**

Initiate **further measures** for the **development** of GAIA-X

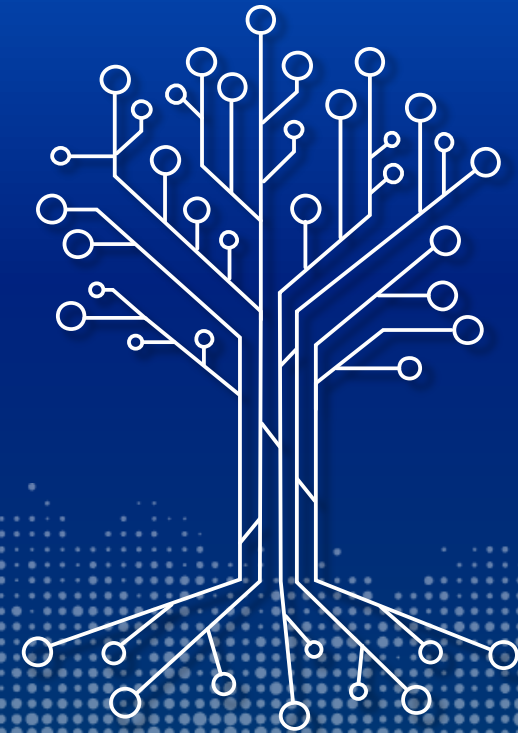Define and validate **cross-domain requirements**

Define and validate **domain-specific requirements**

German GAIA-X Hub

Domain Mobility

GAIA-X DOMAIN MOBILITY
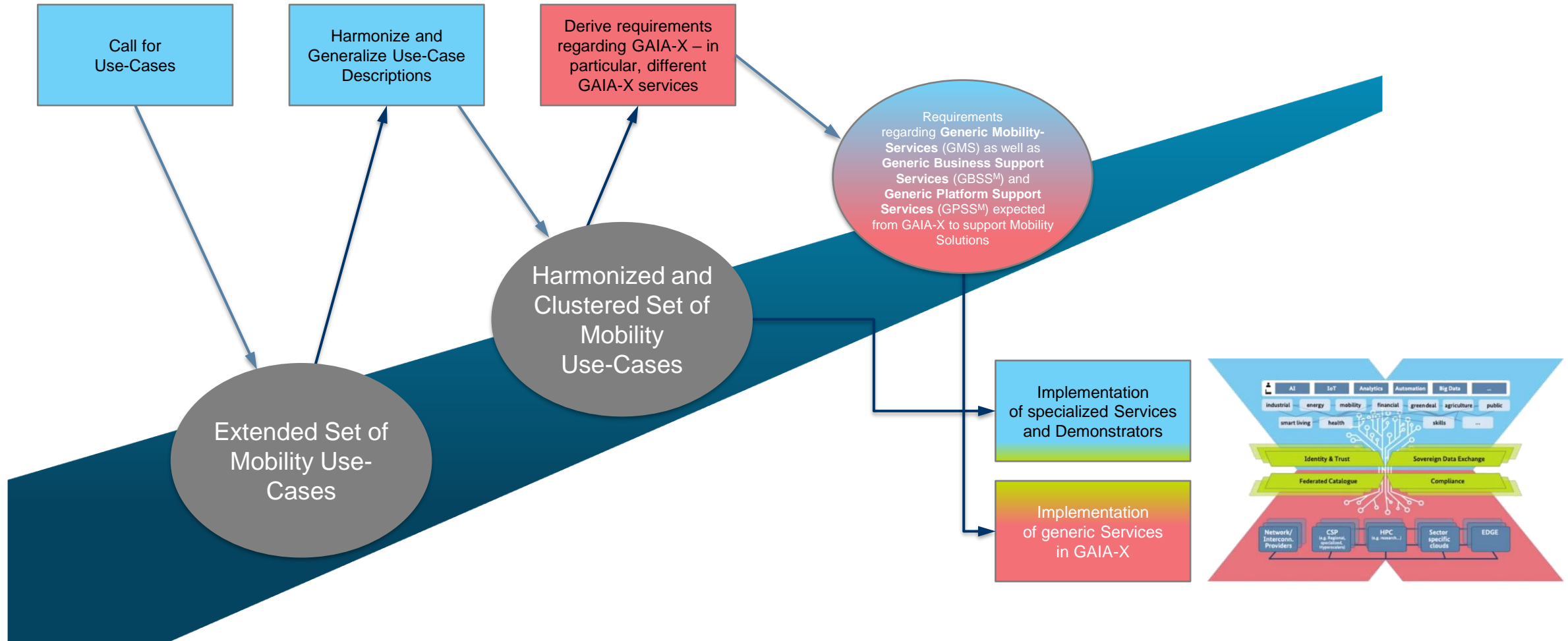
German Data Space Mobility
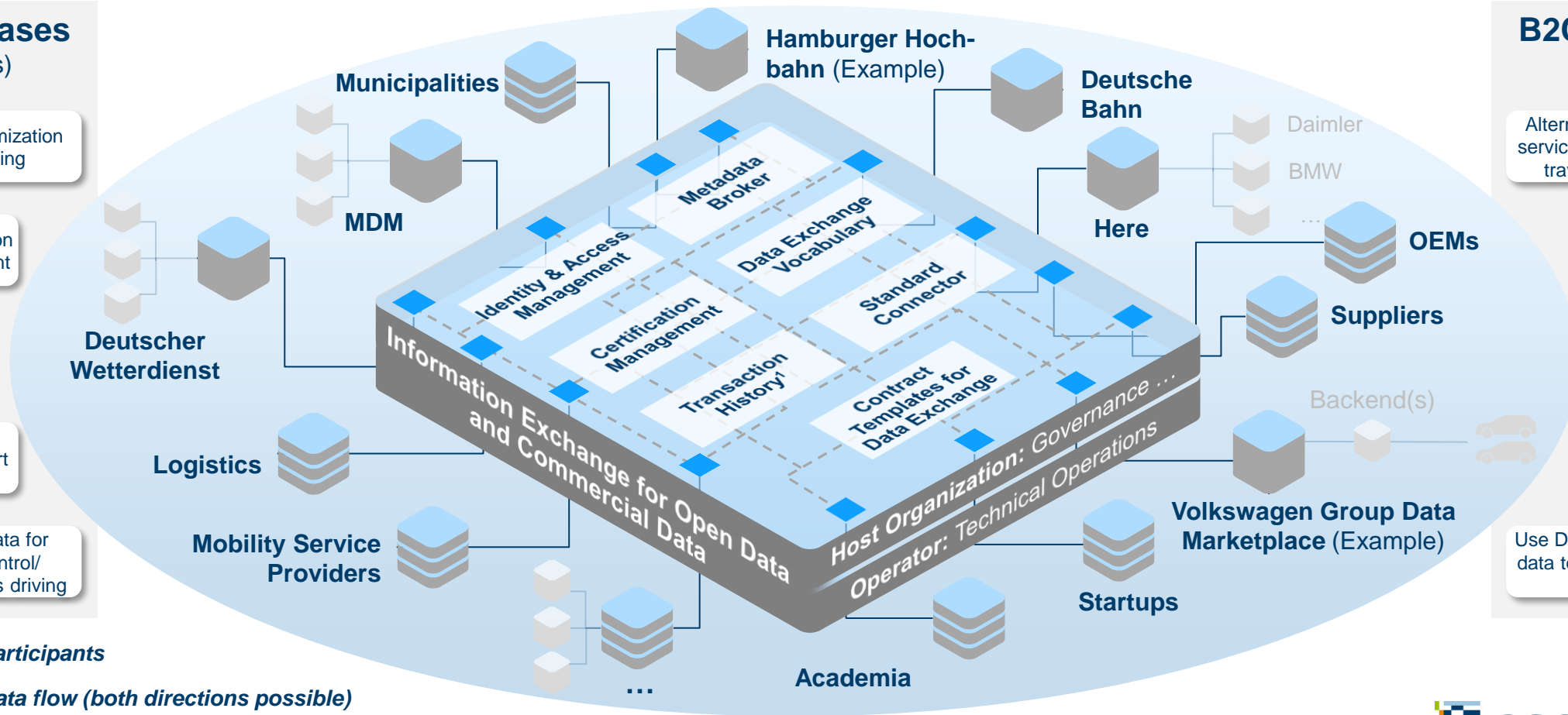

B2B Use Cases (Examples)

- Traffic optimization & steering
- Disruption information for fleet management
- Asset utilization of public transport
- Predictive maintenance for transport infrastructure
- Sensor data for traffic control/ autonomous driving

B2C Use Cases (Examples)

- Alternative mobility services / intermodal travel services
- Mobility as a service (platforms)
- Parking services
- AI-supported optimization of everyday mobility
- Use Data Task Force data to improve road safety

Participants

Municipalities · MDM · Hamburger Hoch-bahn (Example) · Deutsche Bahn · Here · Daimler · BMW · OEMs · Suppliers · Deutscher Wetterdienst · Logistics · Mobility Service Providers · Academia · Startups · Volkswagen Group Data Marketplace (Example) · Backend(s)

Information Exchange for Open Data and Commercial Data

Identity & Access Management · Metadata Broker · Data Exchange Vocabulary · Certification Management · Standard Connector · Transaction History[1] · Contract Templates for Data Exchange

Host Organization: Governance ...
Operator: Technical Operations

Participants — (legend icon)

Data flow (both directions possible)

Connectors

... Use Cases

1) incl. Clearing & Settlement

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DEUTSCHE AKADEMIE DER TECHNIKWISSENSCHAFTEN

Layer Model DSM

Mobility Ecosystem

Connectivity

Data Space Mobility (Shared Digital Twin)

Data Object

00010010010

IDS-Software Infrastructure

IDS-Connector

Broker Service

Clearing House

acatech

DEUTSCHE AKADEMIE DER TECHNIKWISSENSCHAFTEN
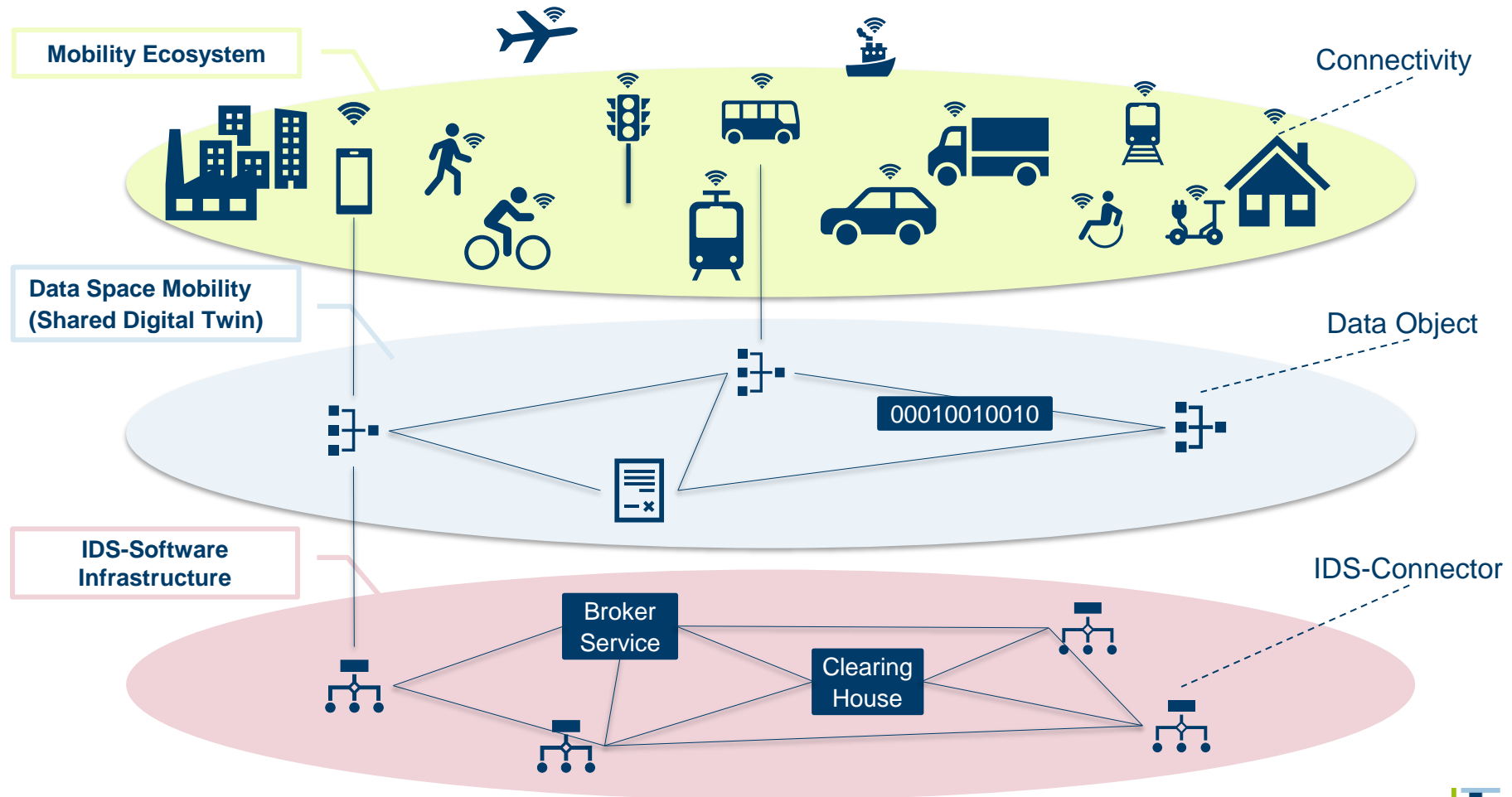
Implementation – Fields of activity

Regulations / Governance

- European, sovereign, independent
- Opt-in / Opt-out, Process & Certification
- Common-Level-Playing Field
- European Legal Space for Data Usage
  Commercial Handling processes and streams
- Virtual Networked Data Space Mobility

Input/Provision

- Weather data
- Data from municipalities
- Road infrastructure and traffic data
- Disruptions data
- Mobility service provider data
  .
  .
  .

DSM

Output

- Services and Data for the mobility industry
- European mobility data space (Enabler for Germany)
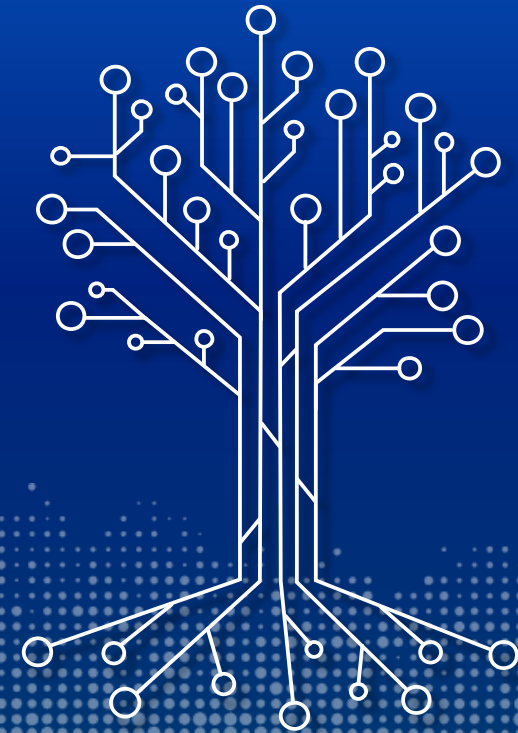 .
  .
  .

Architecture & Technology

- Map based application platform
- Cooperation/Data exchange Hyperscaler
- BMVI - MDM (Mobilitäts Daten Marktplatz / Data architecture)
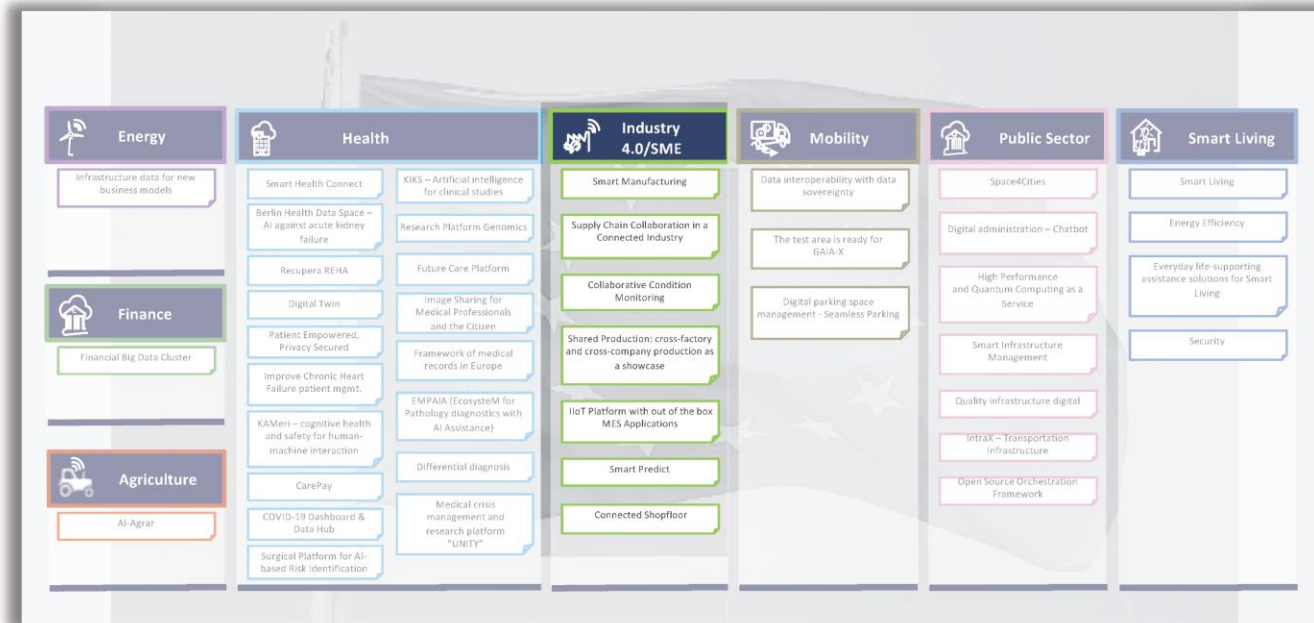- IDS - Interfaces and data architecture

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DEUTSCHE AKADEMIE DER
TECHNIKWISSENSCHAFTEN

German GAIA-X Hub

Domain Industry 4.0 / Manufacturing

Data Space Industry 4.0 (Germany) Concept & Early Approach.

Energy	Health		Industry 4.0/SME	Mobility	Public Sector	Smart Living
Infrastructure data for new business models	Smart Health Connect	KIKS – Artificial intelligence for clinical studies	Smart Manufacturing	Data interoperability with data sovereignty	Space4Cities	Smart Living
	Berlin Health Data Space – AI against acute kidney failure	Research Platform Genomics	Supply Chain Collaboration in a Connected Industry	The test area is ready for GAIA-X	Digital administration – Chatbot	Energy Efficiency
	Recupera REHA	Future Care Platform	Collaborative Condition Monitoring	Digital parking space management - Seamless Parking	High Performance and Quantum Computing as a Service	Everyday life-supporting assistance solutions for Smart Living
Finance	Digital Twin	Image Sharing for Medical Professionals and the Citizen	Shared Production: cross-factory and cross-company production as a showcase		Smart Infrastructure Management	Security
Financial Big Data Cluster	Patient Empowered, Privacy Secured	Framework of medical records in Europe	IIoT Platform with out of the box MES Applications		Quality infrastructure digital	
	Improve Chronic Heart Failure patient mgmt.	EMPAIA (EcosysteM for Pathology diagnostics with AI Assistance)	Smart Predict		IntraX – Transportation infrastructure	
Agriculture	KAMeri – cognitive health and safety for human-machine interaction	Differential diagnosis	Connected Shopfloor		Open Source Orchestration Framework	
AI-Agrar	CarePay	Medical crisis management and research platform "UNITY"				
	COVID-19 Dashboard & Data Hub					
	Surgical Platform for AI-based Risk Identification					

Multitude of profound use cases have been identified with dedicated GAIA-X relevance.
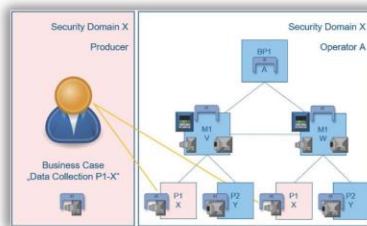
Integrated approach altogether with relevant initiatives, e.g. Plattform Industry 4.0.

Community based development of requirements and solution approaches.

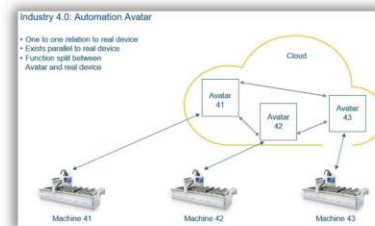## Three exemplary early Use Cases from the Industry/SME sector

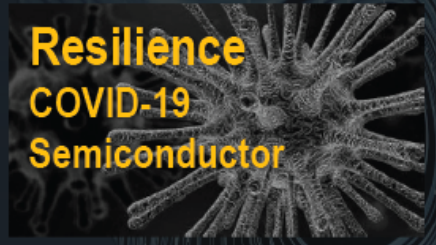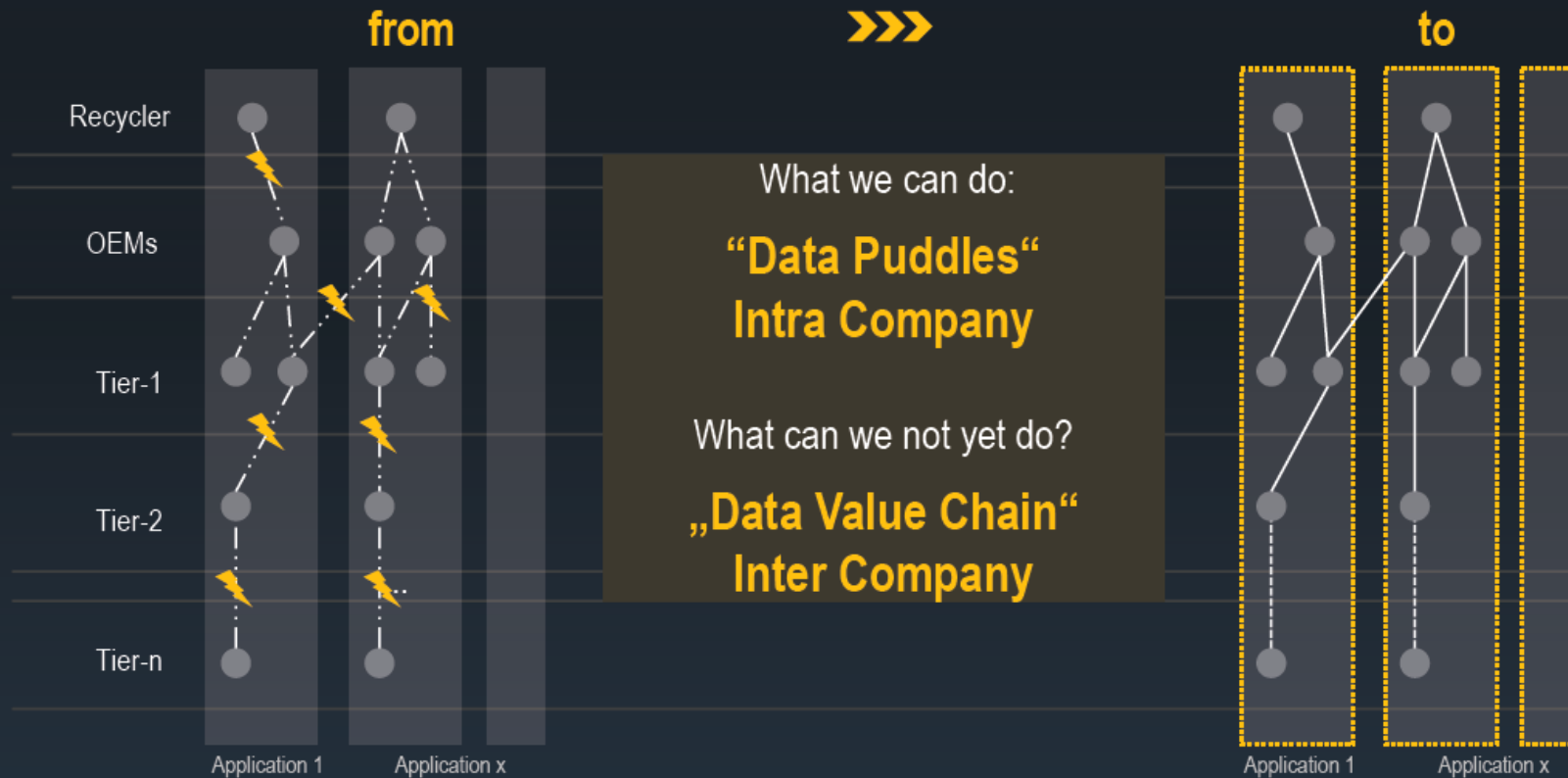### 1 Collaborative Condition Monitoring

2 Smart Manufacturing
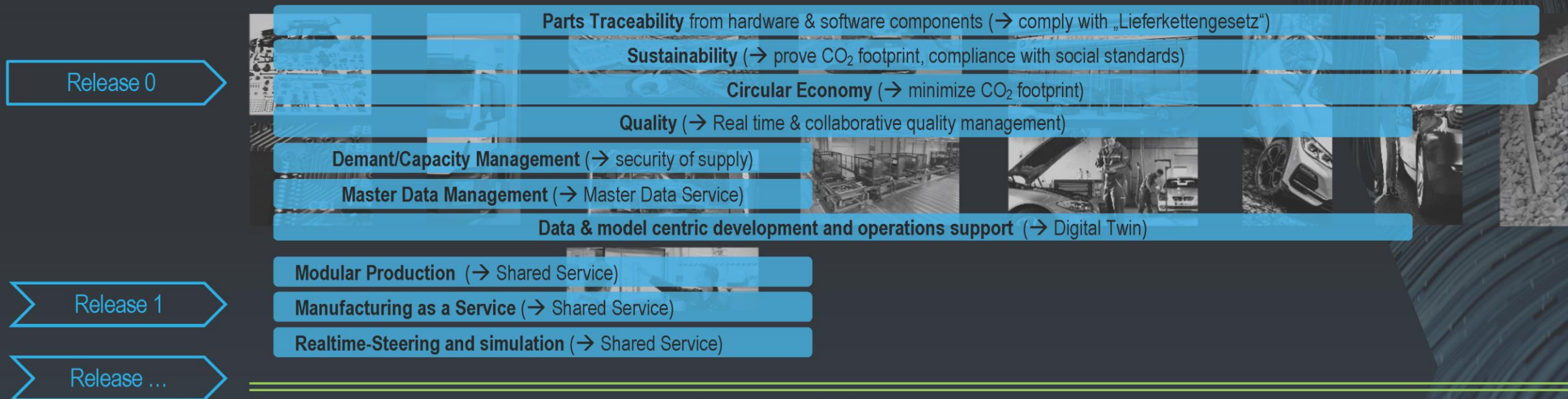

3 Supply Chain Collaborative in a Connected Industry

GAIA-X

1

CATENA-X I A COMPREHENSIVE APPROACH FOR THE WHOLE INDUSTRY. ESTABLISH CONSISTENT DATA VALUE CHAINS + CONNECT SMES / PARTNERS.

from

to

Recycler
OEMs
Tier-1
Tier-2
Tier-n

Application 1   Application x

Application 1   Application x

What we can do:

**"Data Puddles"
Intra Company**

What can we not yet do?

**„Data Value Chain"
Inter Company**

Resilience
COVID-19
Semiconductor

Sustainability
KrW-/AbfG, CO_2, …

GEO-Politics
Competitiveness

ECONOMICS
Investments

CATENA-X I INITIAL USE CASES.
TARGET: CREATION & ACCEPTANCE NETWORK + BASIS FOR NETWORK BASED-INNOVATIONS.

Release 0

- **Parts Traceability** from hardware & software components ($\rightarrow$ comply with „Lieferkettengesetz")
- **Sustainability** ($\rightarrow$ prove CO_2 footprint, compliance with social standards)
- **Circular Economy** ($\rightarrow$ minimize CO_2 footprint)
- **Quality** ($\rightarrow$ Real time & collaborative quality management)
- **Demant/Capacity Management** ($\rightarrow$ security of supply)
- **Master Data Management** ($\rightarrow$ Master Data Service)
- **Data & model centric development and operations support** ($\rightarrow$ Digital Twin)

Release 1

- **Modular Production** ($\rightarrow$ Shared Service)
- **Manufacturing as a Service** ($\rightarrow$ Shared Service)
- **Realtime-Steering and simulation** ($\rightarrow$ Shared Service)

Release …

Technology & Network

Gaia X – Finance and Insurance Dataspace

March 2021
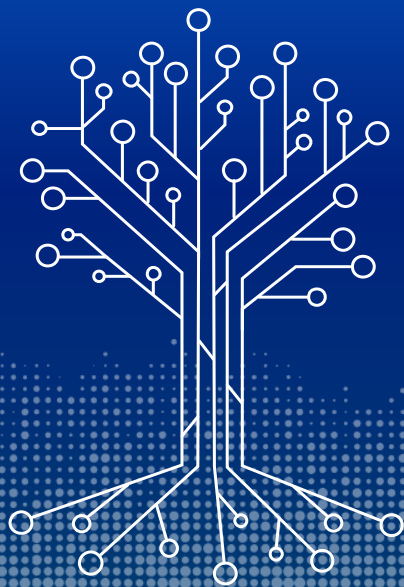
Gaia X Finance & Insurance Dataspace introduction

After co constructing during Q4 2020 a roadmap, contributors are entering a more operational phase of constituting working groups with companies and solution providers.

At this stage, it already brings together major French, German and Italian banks and insurance companies and is progressively onboarding other European financial actors.

Overall benefits expected from Gaia X for the financial industry

Easily build, assemble and use trusted and value-creating data-based cloud services

Create new financial products/services and foster new business models that are compliant "by design" with European regulations and values

Gaia X as a European-wide accelerator of innovation, scaling up open innovation and co-construction by providing secured data sharing and artificial intelligence services at scale, in a compliant and secured way

Foster Europe's competitiveness and financial markets' stability

4

Already 7 short-term value-creating topics identified, building on Federation Services and data-sharing

2 pillars to initiate Finance & Insurance data space

#1 "compliance by design" framework to set up in connexion with European and national regulators

#2 Secured innovation platforms to support co-innovation with multi-entity participation (e.g. building on FBDC initiative)

Potentially cross-data space

5 short term topics building on existing solutions, to be enhanced at Gaia X standard level in order to benefit from Gaia X value proposition

#5 Acceleration of open banking usages

#3 "Compliant by design" electronic/intelligent document & content management

#4 Authentication, identity management, consent management and ePrivacy

 # 6 Trusted Fraud, Risk and Compliance data-based cloud services

#7 Trusted financial risk management data-based cloud services

Enhance data protection, "compliance by design" and AI-based capabilities through Gaia X potential

Enhance AI- and data-based capabilities through Gaia X potential

13 additional mid-term value-creating topics identified, also building on Federation Services and data-sharing

11 promising value-creation topics

#8 Stable Supply Chain Finance

With Industry 4.0 data space

#9 Financial cloud services' tokenization platform

= secured data and service brokerage

Potentially cross-data space

#13 Building EPI- and FPML-based services in a directly compliant mode

= New products

#12 Personal Data digital safe

= Data protection

#10 Trusted "Blockchain as a service" platforms

= Data protection and innovation

#16 Improving the data basis for monetary policy decisions

#15 Enhancement of market integrity

#14 Sustainable finance data space

#11 Collaboration applications suites trusted cloud services

= Data protection

Foster Europe's competitiveness and financial markets' stability through AI- and data-based new tools

#19 Explainable, Trustworthy, and Responsible AI in Finance and Insurance

#20 Graph Analytics and Explainable AI in Risk Analysis of Orderbooks

2 high-value long-term topics

**#17 Emergence of a European financial market-data platform**

= New products

 # 18 Trusted "core banking as a service" cloud platforms

= New products

Key next steps to deliver expected value

- Develop a „compliant by design" framework aligning Gaia X policy rules and financial sector regulations

- Deliver a first data space demonstrator, e.g. building on the FBDC* initiative launched in Germany

- Set up the Finance & Insurance data space governance and plan development and roll-out for the most value-creating topics among the 20 topics identified so far

- Identify topics for which funding by the EC could accelerate development
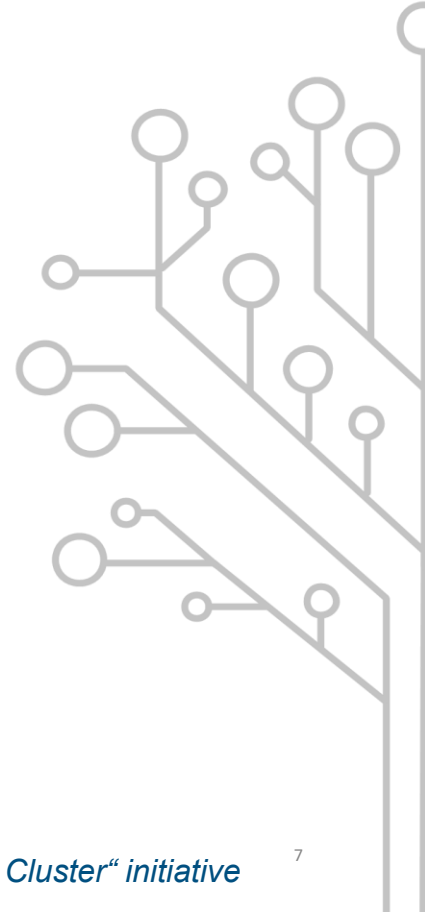
(*) : „Financial Big Data Cluster" initiative

Pascal ROGIEST,
Managing Director, RHEA System Luxembourg

GAIA-X and its SPACE dataspace:

key enablers for the future European space applications

At dawn of new DATA-driven SPACE era

GAIA-X

- ❑ High Dependency of everyone daily life on SPACE data

- ❑ Multiplication of new SPACE infrastructures & investments

- ❑ New DIGITALISATION concepts in new SPACE approaches

- ❑ Opportunity for creating beneficial SOCIETAL IMPACT and DIGITAL TRUST through further exploiting SPACE data in EUROPE

Justifying a focus on GAIA-X for SPACE DATA

SPACE dataspace

Mission & Vision

☐ **Vision:**

allow SPACE DATA to be handled securely, robustly, accurately and efficiently, with assured European sovereignty

☐ **Mission:**

foster new Data & Cloud related services
for space ground segment (upstream)
and for the use of space data (downstream)

SPACE dataspace — Key Concrete Objectives & Usecases

- ✓ To boost European space business thanks to a federation of European clouds

- ✓ To use the processing power of European clouds

- ✓ To keep European space data in Europe

- ✓ To integrate European space data in other markets and with other data sources,

- ✓ To ensure European digital trust as an enabler for digital adoption

- ✓ To accelerate time to market & competitiveness of future European space programs

Renown set of Members aggregated over 5 months …

Elodie VIAU,
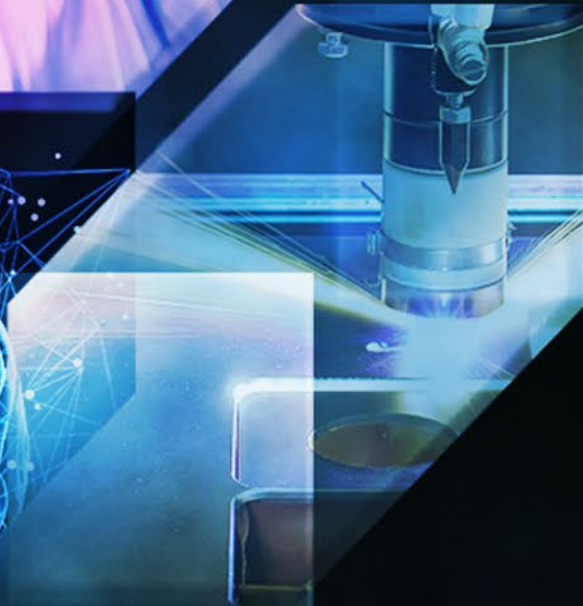**Director of Telecommunications and Integrated Applications**

GAIA-X and its SPACE dataspace:
key enablers for ESA
& the future European space applications

Luxinnovation – Our mission as national innovation agency

We empower companies to innovate

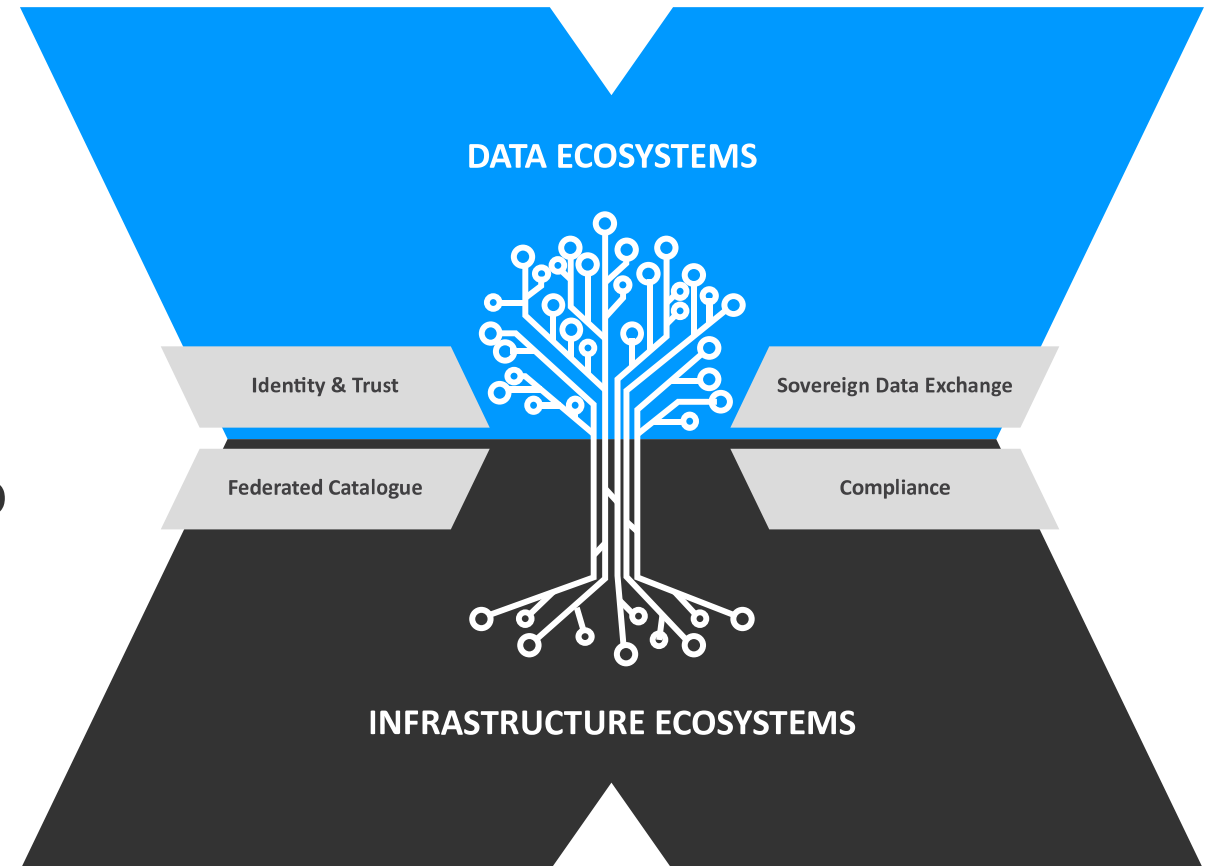- by facilitating access to funding, knowledge and networks
- by anticipating change and helping companies seize the challenges and opportunities change brings about

GAIA-X mission

- Ensure that **all relevant public, private and research players** from the Luxembourg data ecosystem **become involved** in GAIA-X in a coordinated and efficient manner

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GAIA-X concept

- Create a **European data infrastructure** that is federated, secure and sovereign
- Involve **all relevant stakeholders** (business, research, public sector)
- Jointly **express the requirements** to ensure that data from multiple sectors can be made available, combined and shared in an environment of trust

DATA ECOSYSTEMS

Identity & Trust

Sovereign Data Exchange

Federated Catalogue

Compliance

INFRASTRUCTURE ECOSYSTEMS

Source: BMWi

3

Infrastructure layer

- Highly relevant for:
  - Cloud service providers
  - Network providers
  - Data infrastructure entities
  - HPCs
- Ensure that your services and infrastructures are inter-connected and interoperable at the European level

Network/ Interconn. Providers | CSP (e.g. Regional, specialized, Hyperscalers) | HPC (e.g. Research…) | Sector specific clouds | EDGE

INFRASTRUCTURE ECOSYSTEMS

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#MakingInnovationHappen
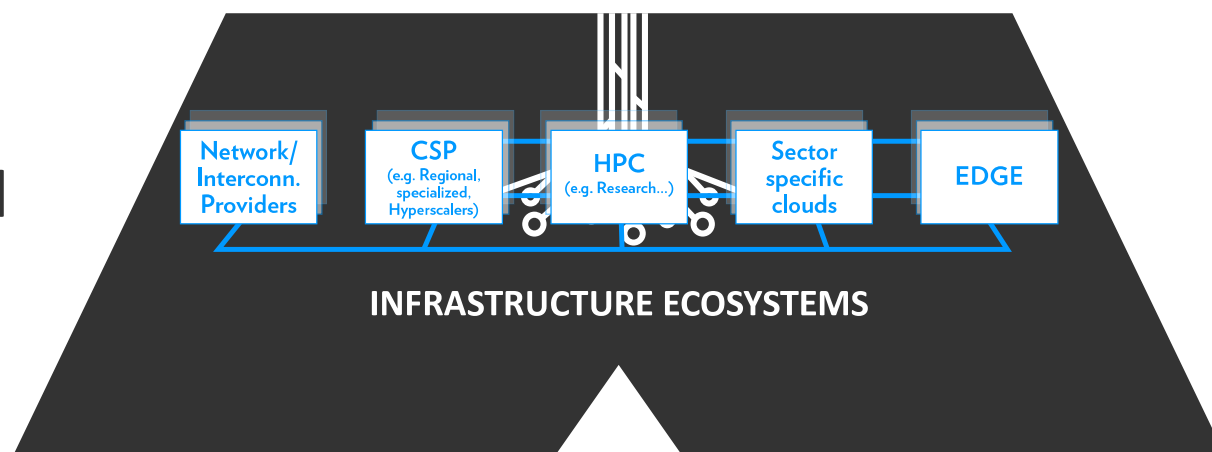
Data ecosystem layer

- **Highly relevant for:**
  - Data users and producers in different fields
- **Why participate in domain WGs:**
  - Identify and prioritise use cases
  - Align on common data standards required
  - Build consortiums to address opportunities
  - Develop demonstrators
  - Leverage national and European funds
  - etc.

DATA ECOSYSTEMS

| AI | IoT | Analytics | Automation | Big Data | ... |

| industrial | energy | mobility | financial | green deal | agriculture | public |

| smart living | health | | skills | ... |

LUXINNOVATION
#MakingInnovationHappen

Energy Data Space

Proposed governance (in progress)

EUROPEAN LEVEL

GAIA-X
European Association for Data and Cloud

Data Space ENERGY
Martine Gouriet

Data Space Financial

...

NATIONAL LEVEL

French Coordination
Marine De Sury
Martine Gouriet

German Coordination
Peter Kraemer
Michael Laskowski

Belgium Coordination

Luxembourg Coordination

Providers coordinated with their own National's Hub
Global companies belonging to GAIA-X, Distributors, Retailers, Producers,
Start ups working on energy, all business partners and suppliers

LUXINNOVATION
#MakingInnovationHappen

Source: EDF

European funding

EU Commission programmes relevant to projects emerging from GAIA-X

- RDI activities
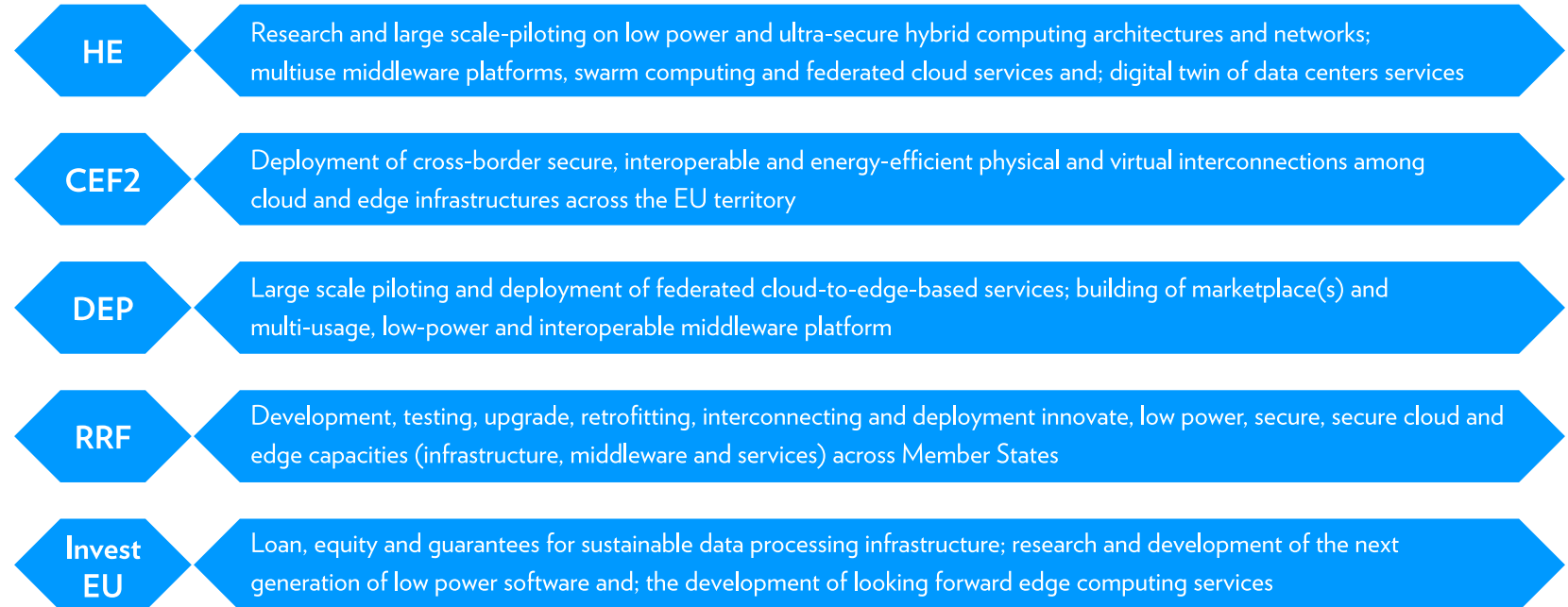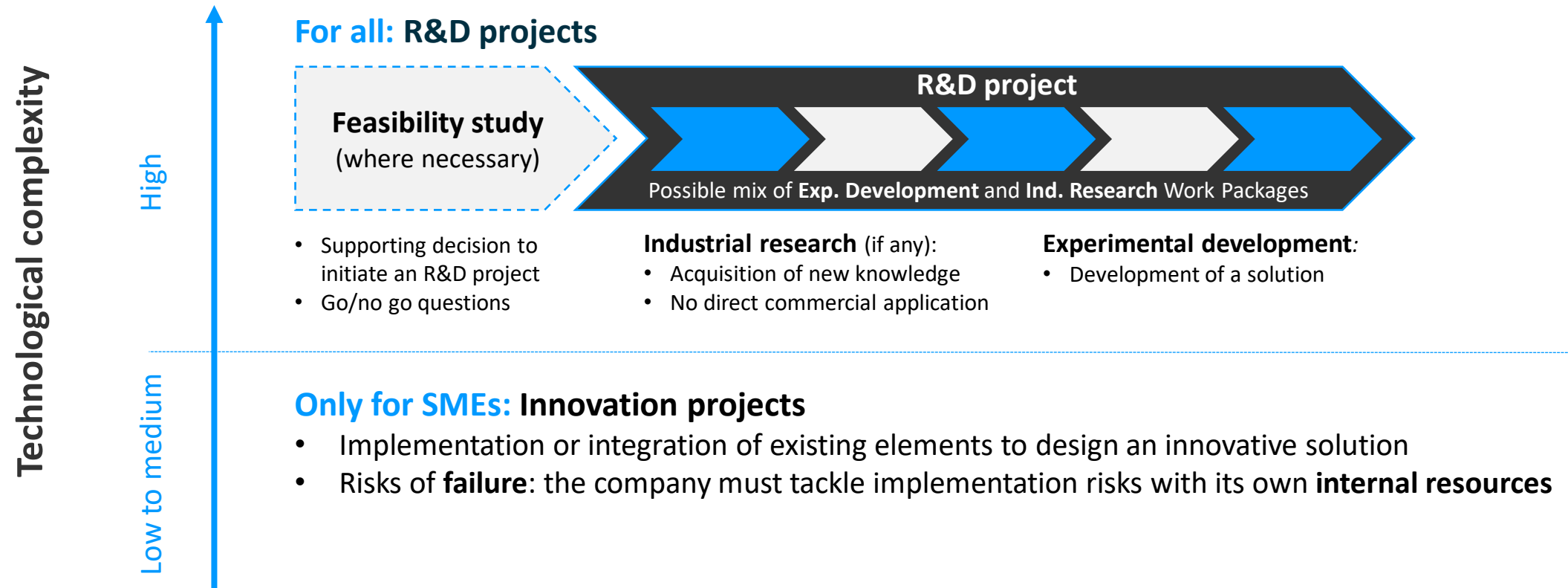- Infrastructure investments
- Digital technologies

HE — Research and large scale-piloting on low power and ultra-secure hybrid computing architectures and networks; multiuse middleware platforms, swarm computing and federated cloud services and; digital twin of data centers services

CEF2 — Deployment of cross-border secure, interoperable and energy-efficient physical and virtual interconnections among cloud and edge infrastructures across the EU territory

DEP — Large scale piloting and deployment of federated cloud-to-edge-based services; building of marketplace(s) and multi-usage, low-power and interoperable middleware platform

RRF — Development, testing, upgrade, retrofitting, interconnecting and deployment innovate, low power, secure, secure cloud and edge capacities (infrastructure, middleware and services) across Member States

Invest EU — Loan, equity and guarantees for sustainable data processing infrastructure; research and development of the next generation of low power software and; the development of looking forward edge computing services

European Commission

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National R&D and innovation funding

Luxinnovation helps companies prepare high-quality funding applications

For all: R&D projects

Feasibility study
(where necessary)

R&D project

Possible mix of **Exp. Development** and **Ind. Research** Work Packages

- Supporting decision to initiate an R&D project
- Go/no go questions

Industrial research (if any):
- Acquisition of new knowledge
- No direct commercial application

Experimental development:
- Development of a solution

Only for SMEs: Innovation projects
- Implementation or integration of existing elements to design an innovative solution
- Risks of **failure**: the company must tackle implementation risks with its own **internal resources**

Technological complexity

High

Low to medium

National funding

IPCEI-CIS – Ministry of the Economy)

- Potential Luxembourg participation in the **IPCEI on Next Generation Cloud Infrastructure and Services**
- Member States can support industry (no State aid rules ceiling)
- Criteria:
  - Major contributions to European **growth, employment and competitiveness**
  - **Ambitious RDI targets** exceeding current state of the art technologies
  - **Co-financing** from beneficiaries including private companies
  - **Market** or systemic **failures** must be demonstrated
- **Call for ideas and project proposals** to be launched by the Ministry of the Economy

GAIA-X and funding opportunities

Separate yet related

- **GAIA-X** gathers requirements to define the future characteristics (compliance, identity and trust, data exchange, etc.) and architecture of the European Cloud

- **Horizon Europe, EC Connecting Europe Facility (CEF2), Digital Europe Programme (DEP) :** RDI, cloud infrastructure, digital technologies

- **Important Project of Common European Interest on Cloud Infrastructure and Services (IPCEI-CIS)** facilitates EU Member States directly supporting their industry to achieve the data strategy goal of a European Federated Cloud and marketplace (no state-aid rules ceiling)

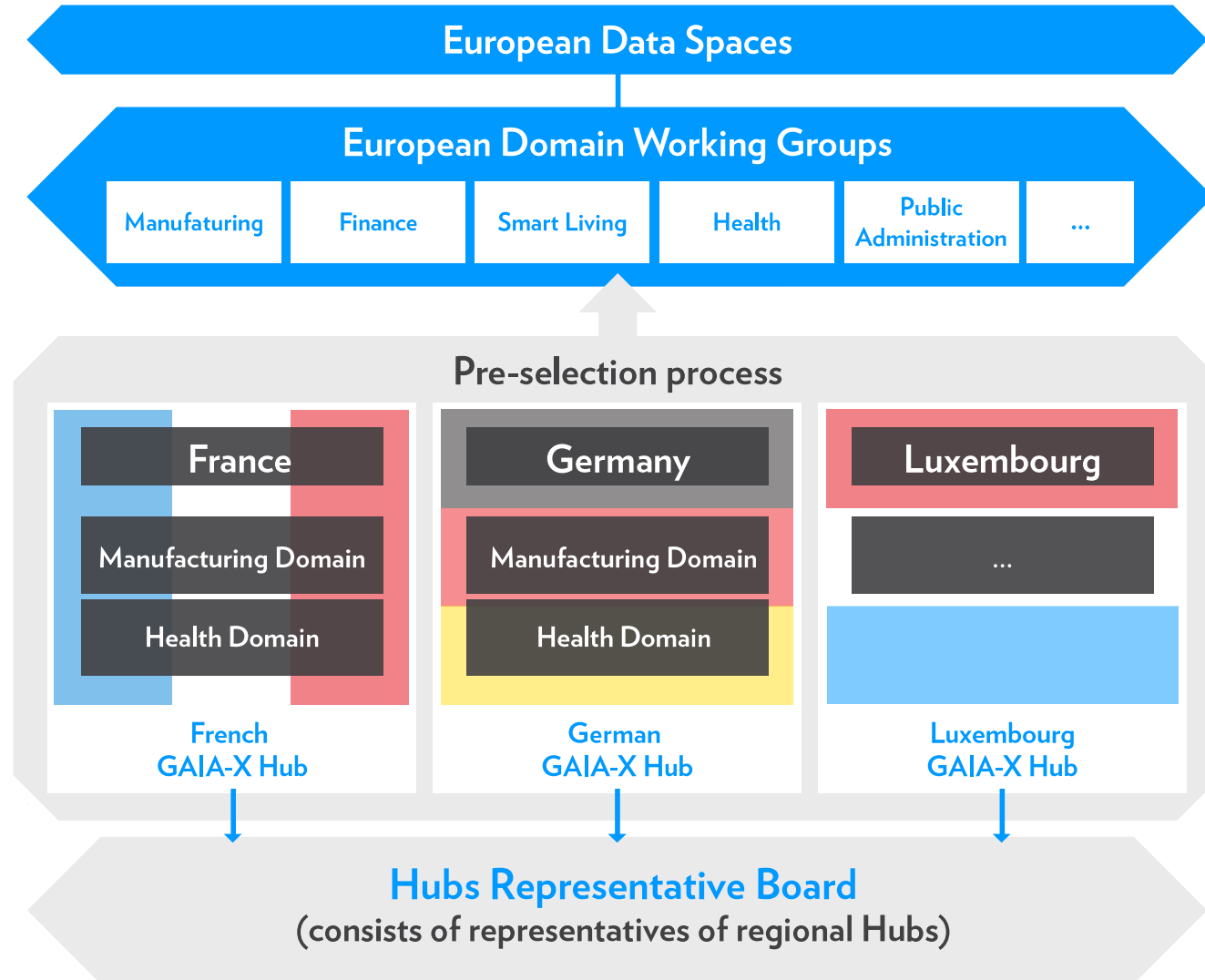- **National R&D and Innovation funding schemes**

Luxinnovation helps companies access the relevant funding schemes

GAIA-X

Luxembourg regional hub

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EU CONTEXT: GAIA-X Hubs help channel information to the right places

European Data Spaces

European Domain Working Groups

| Manufaturing | Finance | Smart Living | Health | Public Administration | ... |

Pre-selection process

France
- Manufacturing Domain
- Health Domain

French
GAIA-X Hub

Germany
- Manufacturing Domain
- Health Domain

German
GAIA-X Hub

Luxembourg
- ...

Luxembourg
GAIA-X Hub

Hubs Representative Board
(consists of representatives of regional Hubs)

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GAIA-X Regional Hub for Luxembourg

Key factors to determine which players

- Represent the requirements of network and interconnection providers, cloud solution providers, High performance computing, ...
- Need to be involved in developing the mechanisms to connect services across domains and Europe to enable a user-friendly infrastructure ecosystem

- Represent the user and demand perspective
- Engaged in domain specific use cases (Energy, Health, Industry 4.0, Finance...)
- Have domain-specific and cross-domain requirements

- Provide access to funding
- Set up and run national data infrastructure initiatives
- Provide scientific knowledge
- Set the regulatory framework

- Ensure information sharing and coordination
- Have full overview of ecosystem

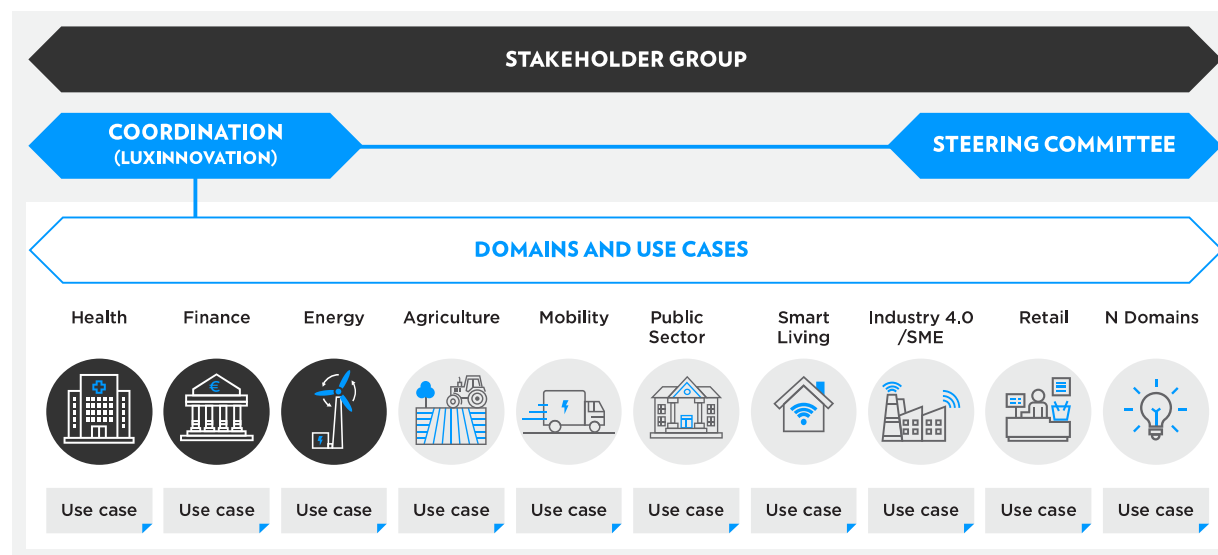LUXINNOVATION
#MakingInnovationHappen
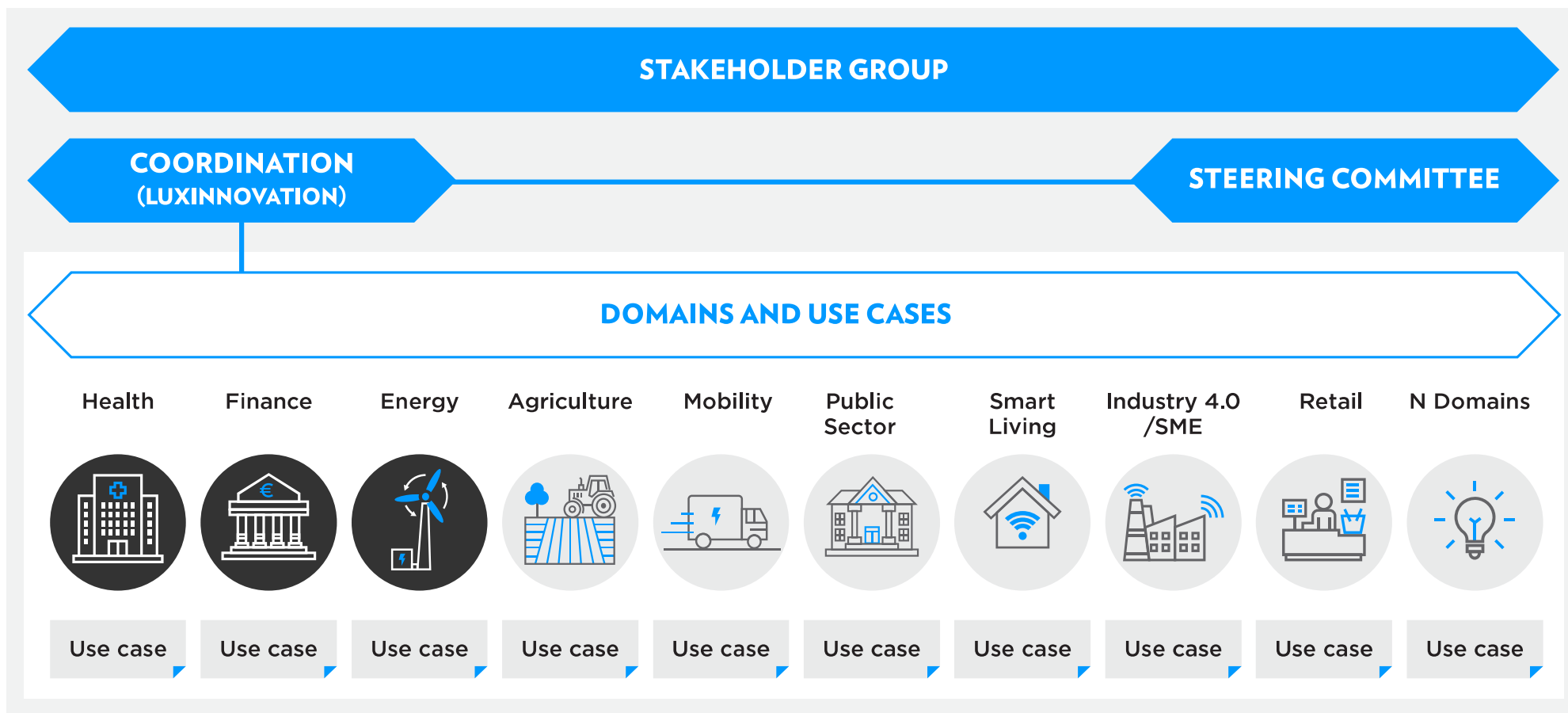
Luxembourg GAIA-X regional hub

Stakeholder Group

- Representatives of:
  - Associations (ICT Luxembourg, CCEL, FEDIL, etc.) interested in GAIA-X
  - Government (MECO, MESR, SMC, MinDig, MinFin, …) that support the GAIA-X hub by providing funds, defining research priorities, providing political support, setting the regulatory framework and/or becoming a key user of Gaia-X
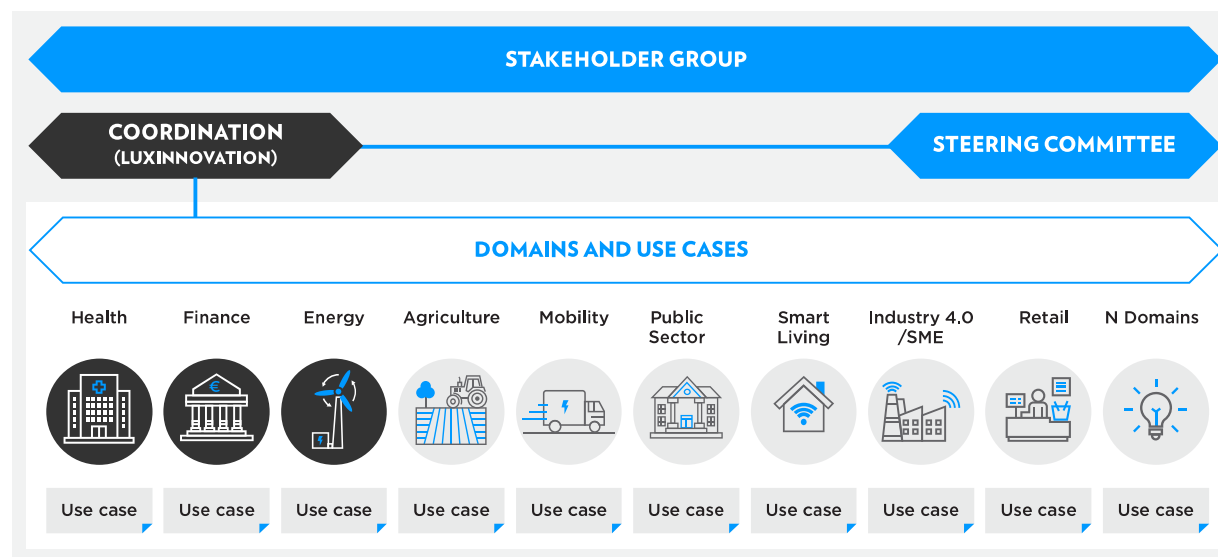- Need to remain informed of ongoing work

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Luxembourg GAIA-X regional hub

Coordination by Luxinnovation

- Coordinated by a dedicated special advisor for digitalisation and data economy from Luxinnovation who:
  - assists a smooth operation and management within the Hub
  - is a central contact point for all parties involved in GAIA-X
- Supported by resources from the private sector and the Ministry of the Economy

STAKEHOLDER GROUP

COORDINATION (LUXINNOVATION)

STEERING COMMITTEE

DOMAINS AND USE CASES

Health	Finance	Energy	Agriculture	Mobility	Public Sector	Smart Living	Industry 4.0 /SME	Retail	N Domains
Use case	Use case	Use case	Use case	Use case	Use case	Use case	Use case	Use case	Use case

Luxembourg GAIA-X regional hub
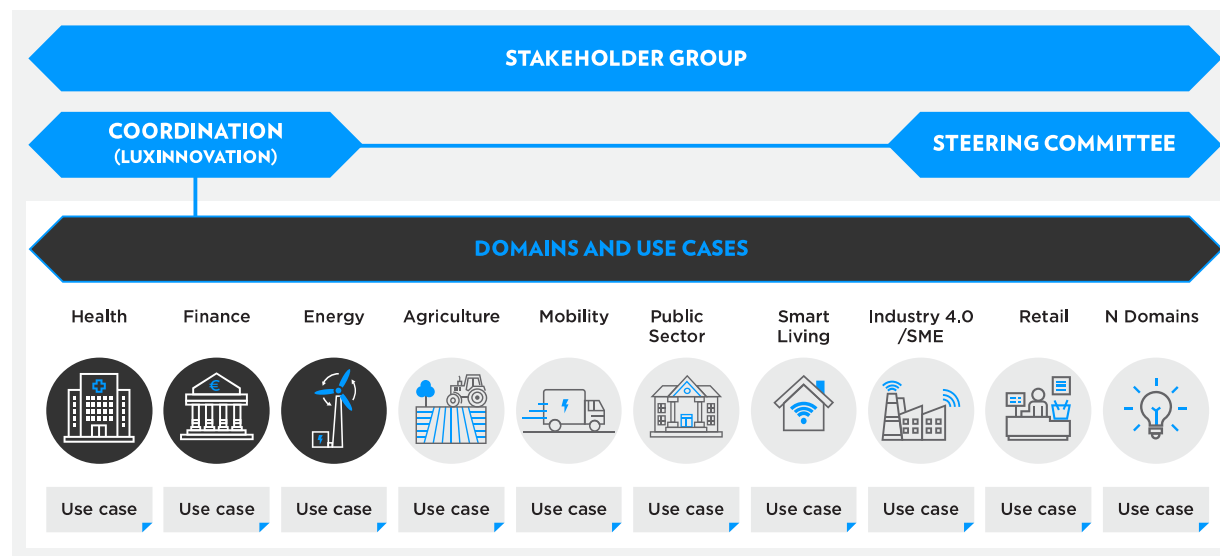
Steering Committee

- Gives guidance to the coordinator
- High-level representatives of organisations with an operational role:
  - Luxinnovation (1)
  - Ministry of the Economy (1)
  - private sector (3)
  - RTOs (3)
- Private sector and research members are domain representatives
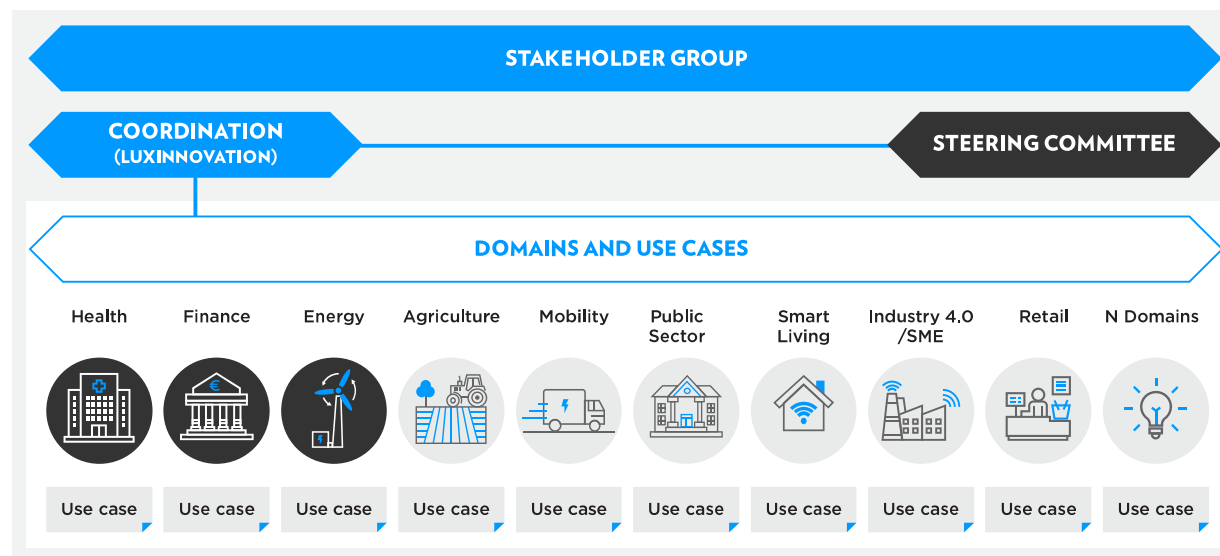
Luxembourg GAIA-X regional hub

Domains and use cases

- Each domain has a representative
- Example:
  - If Luxembourg is interested in becoming engaged in the domain Health with the use case Clinnova, the representative could be from LIH

STAKEHOLDER GROUP

COORDINATION (LUXINNOVATION)

STEERING COMMITTEE

DOMAINS AND USE CASES

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Luxembourg Gaia-X Hub

Gaia-X Coordinator (as from 19 April 2021)

- Peter Sodermans, Special Advisor, Luxinnovation
- peter.sodermans@luxinnovation.lu

Steering Committee

- Luxinnovation: Sasha Baillie, CEO
- Ministry of the Economy: Mario Grotz, Director General
- Private sector: Yves Reding (CCEL) Georges Santer (FEDIL), Jean Hilger (ICT Luxembourg)
- Research: TBC

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Thank you!

Sasha BAILLIE

CEO

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THANK YOU FOR
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MEDIA PARTNER