

16.12.2021

# **Gaia-X – empty promises or next big thing for data sharing ecosystems?**

**Jaana Sinipuro**

Leading specialist, Sitra

@jsinipuro

# Sitra in a nutshell

1. A gift from Parliament to the 50-year-old Finland 51 years ago. Still under the direct control of the Finnish Parliament.
2. A think, do and connect tank. An independent future house.
3. Works towards a fair and sustainable future.
4. Funded by returns on endowment capital and capital investments.
5. The vision is implemented by three themes and hundreds of projects.

... Building our future *together*.

# Sitra toolbox

“Sense making”

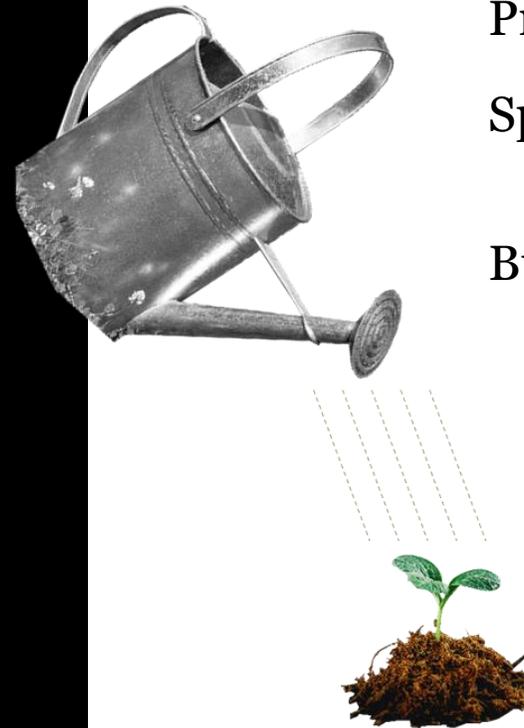
Starting a societal debate and spreading awareness

Forging encounters, uniting people

Practical trials and pilots

Spreading and establishing new operating models

Building a political and administrative foundation for change



Our response to  
The European  
strategy for data

**We build a human-driven, fair data economy based on European values** as an alternative to a state-driven or data monopoly-driven data economy.

This means that we promote changes in economic structures, such as regulation and rules, increase individuals' opportunities to influence the use of data and offer practical tools to companies operating in the data markets.



~~FAIR  
DATA  
ECONOMY~~



# Sitra's fair data economy project portfolio

**Roadmap for a Fair Data Economy project**

**Facilitate national data economy roadmap in a public-private partnership**

**Stakeholders work actively together**

instead of

Each party having their individual and separate projects

**Competitiveness through Data project**

**Competitiveness from data-driven business models**

**Companies innovate on shared data**

instead of

Everyone operating in silos and working on proprietary data only

**Coordinating Gaia-X hub for Finland**

**Connect Finnish companies to European data spaces**

**Finnish companies seek actively European partners**

instead of

Low awareness of European collaboration potential

**Towards European Health Data Spaces Joint Action & Health Data 2030**

**Build common rules and frameworks for health data**

**Countries work jointly towards common European health data spaces**

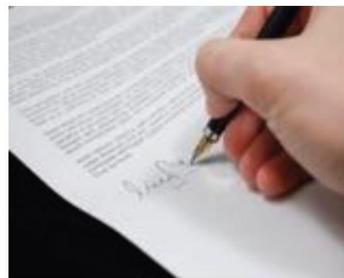
instead of

Operating in silos

**In addition, cooperation with National Agency for Education of Finland for adding digital skills to national curriculum & Digipower investigation**

# **ABOUT GAIA-X**

# EU new paradigm for cloud - Ambition & Coordination



**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**

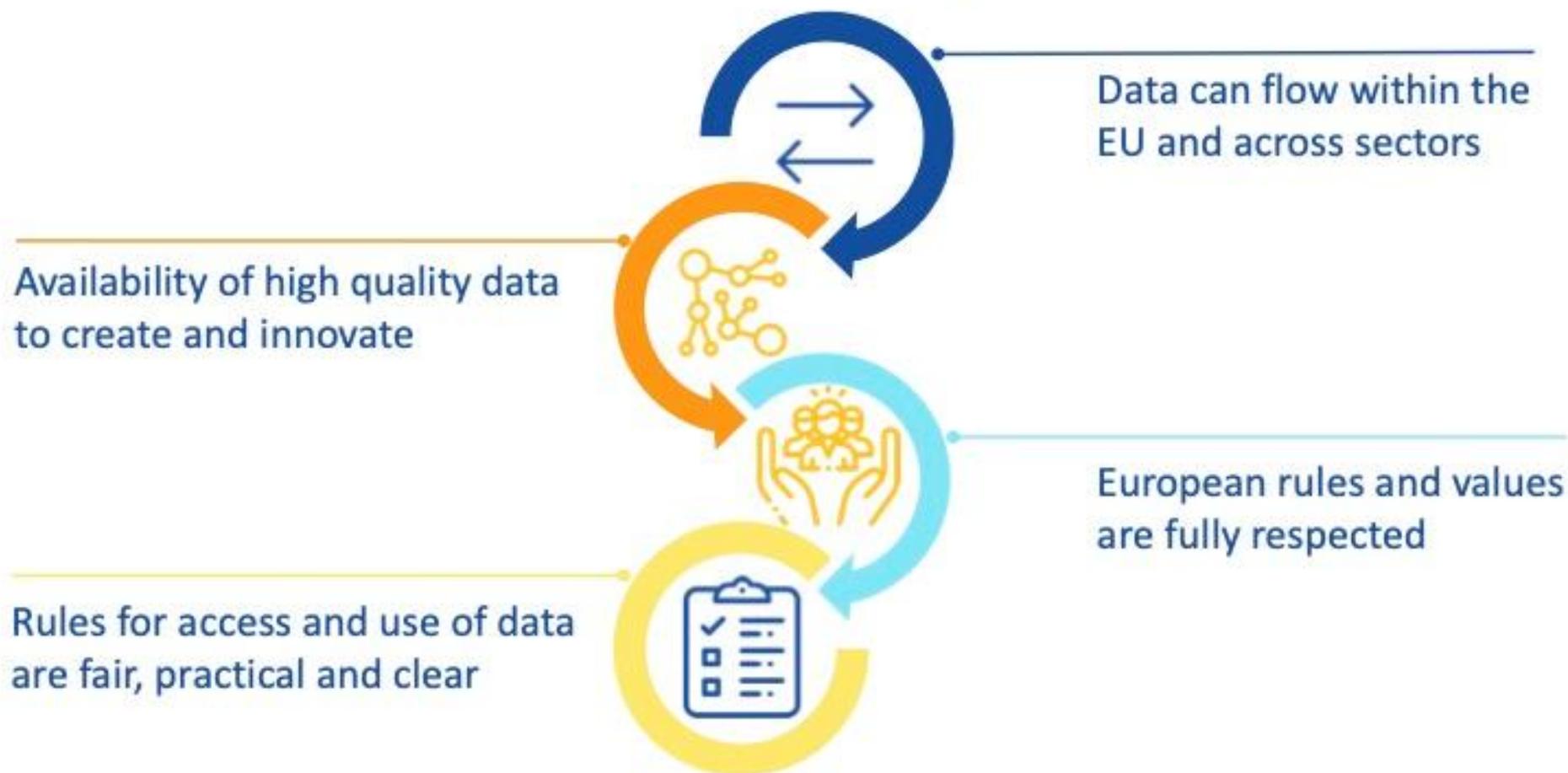
**Digital Decade Strategy** sets targets on edge and cloud for 2030

**May 2021**

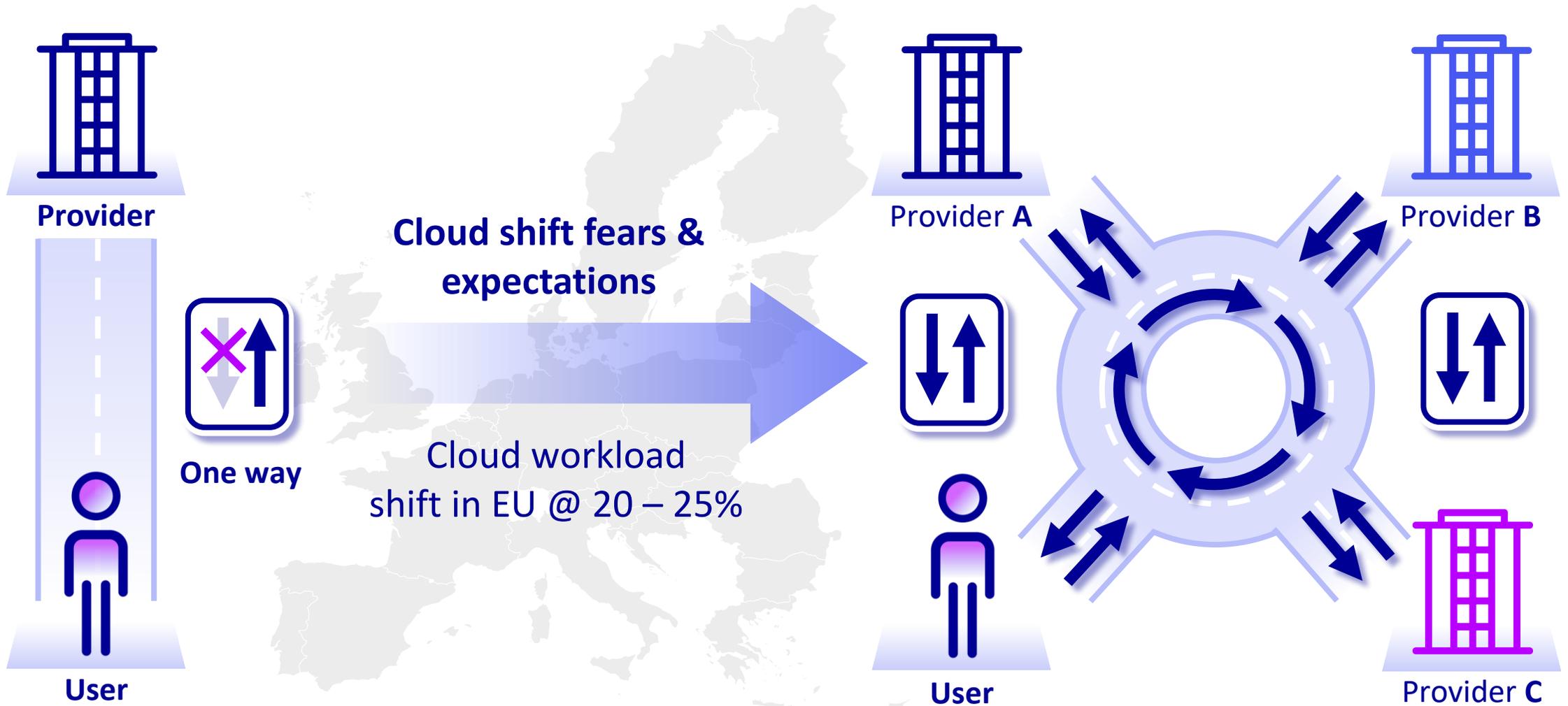
**Updated EU Industrial strategy**  
evidences strategic dependencies

# European Strategy for Data

A common European data space, a single market for data



# From one-way to free & sovereign



## Our Mission – What we aim to

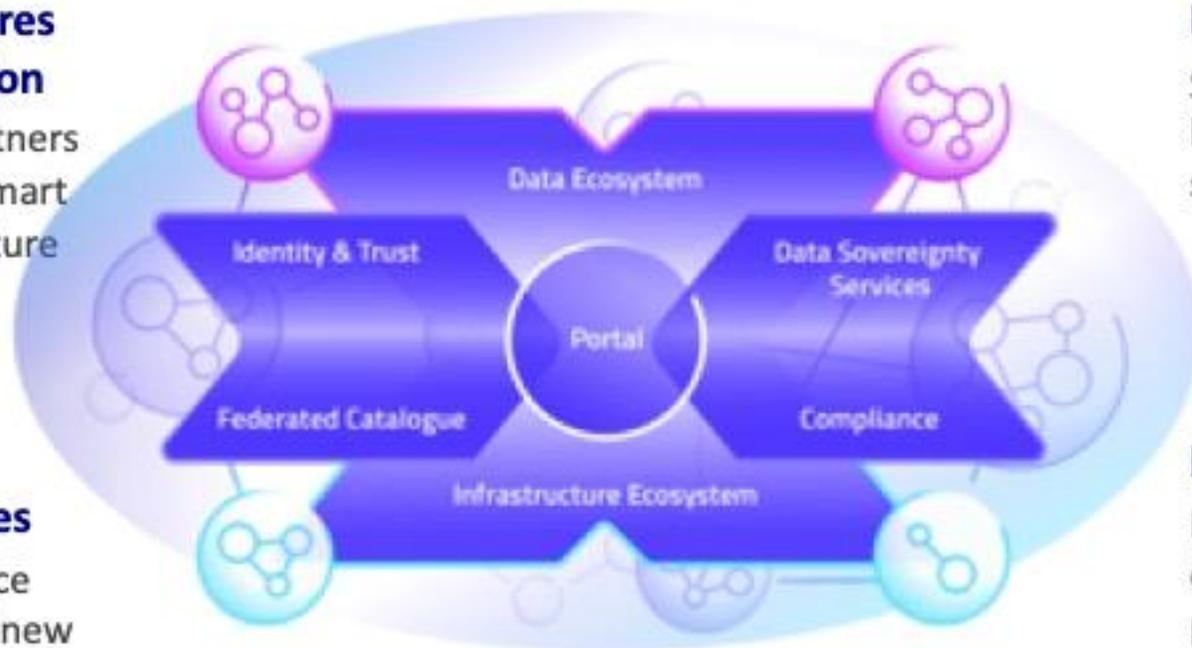


### Creation of digital infrastructures and an ecosystem for innovation

Trusted environment between partners and interoperable links between smart service applications and infrastructure services.

### Increasing transparency and attractiveness of digital services

Reduce barriers to compliant service usage; enable the development of new services and products.



### Data sovereignty

Strengthen the digital sovereignty of business, science, government and society.

### Reduction of dependencies

Reduce private and business consumers' dependency of single providers; control over location and regulatory environment of stored data; reduce sector-specific dependencies.

# The Gaia-X network expands!



# Gaia-X Finland: our mission

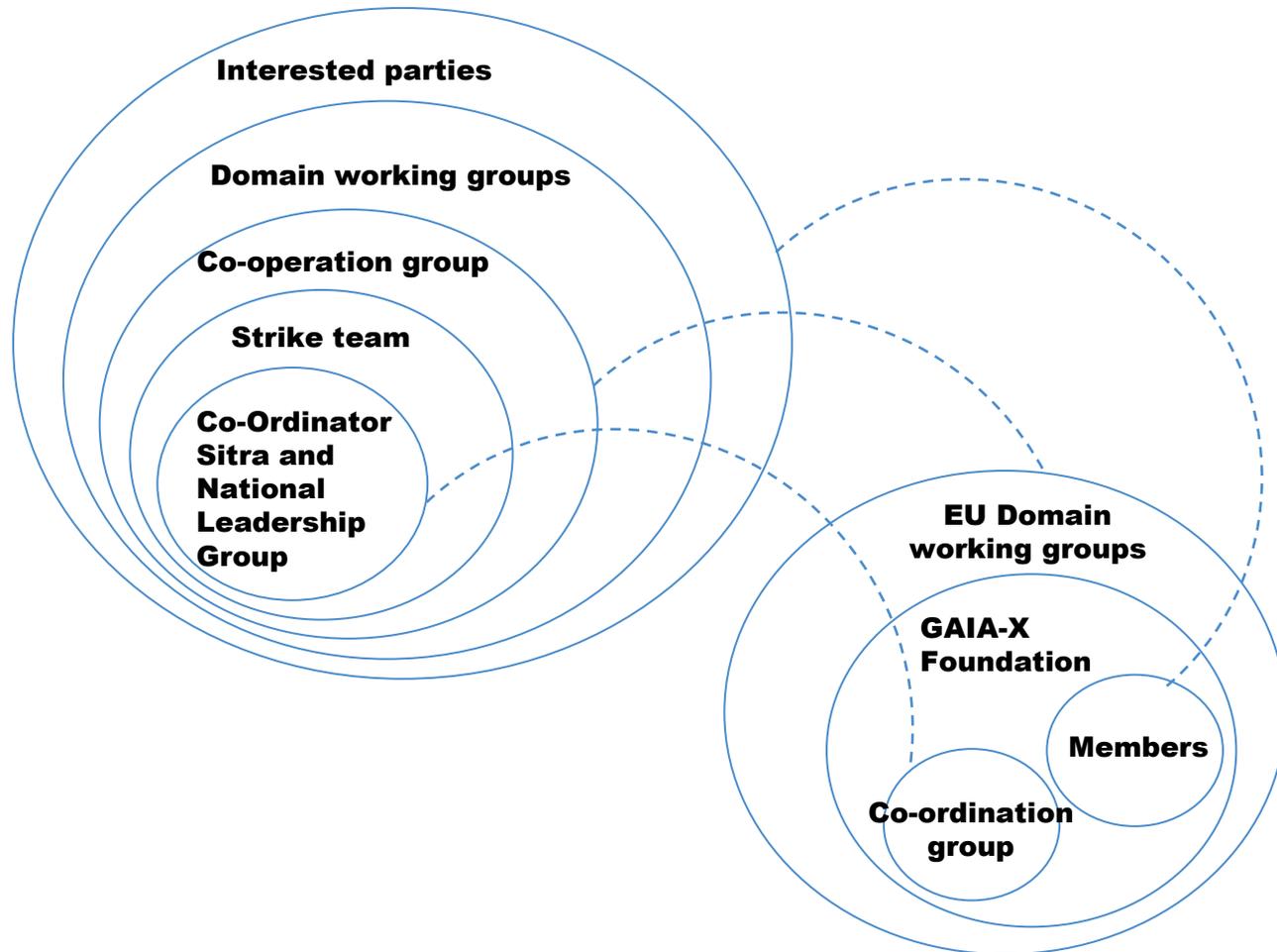
- 1** Increase cooperation between Finnish companies with European companies in data sharing projects
- 2** Linking data sharing projects and actors within Finland
- 3** Ensure the coherence of Finland's data space development with European development
- 4** Promote the competitiveness of Finnish companies in the European market



The future is built on network models and complementing strengths.

– Jyrki Katainen

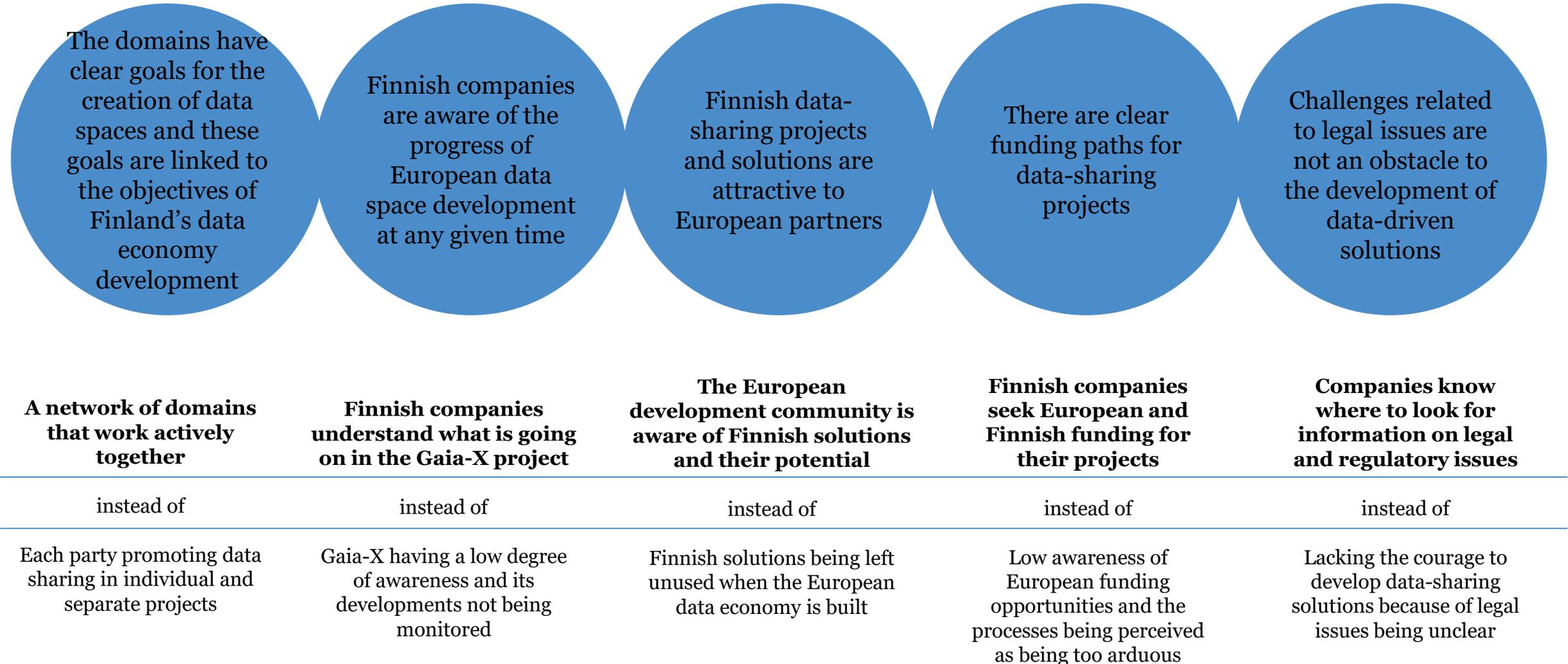
# Structure in Finland



In Finland, GAIA-X hub has an important role to create the Finnish data-based innovation ecosystem and connecting it to the European ecosystem.

– Ilona Lundström,  
Director General,  
Ministry of Employment and  
the Economy

# Gaia-X Finland hub aims to ensure that..



# **CASE CATENA-X**

# „Never let a good Crisis go to Waste“

- Winston Churchill



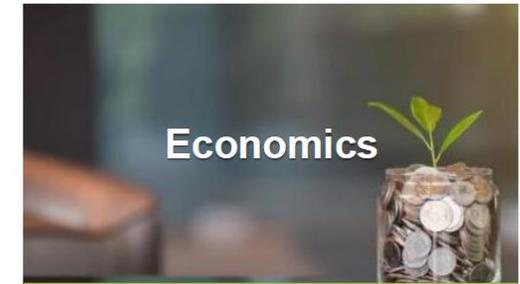
Executive Awareness



Network – Task



Stronger Together



Shared Burden

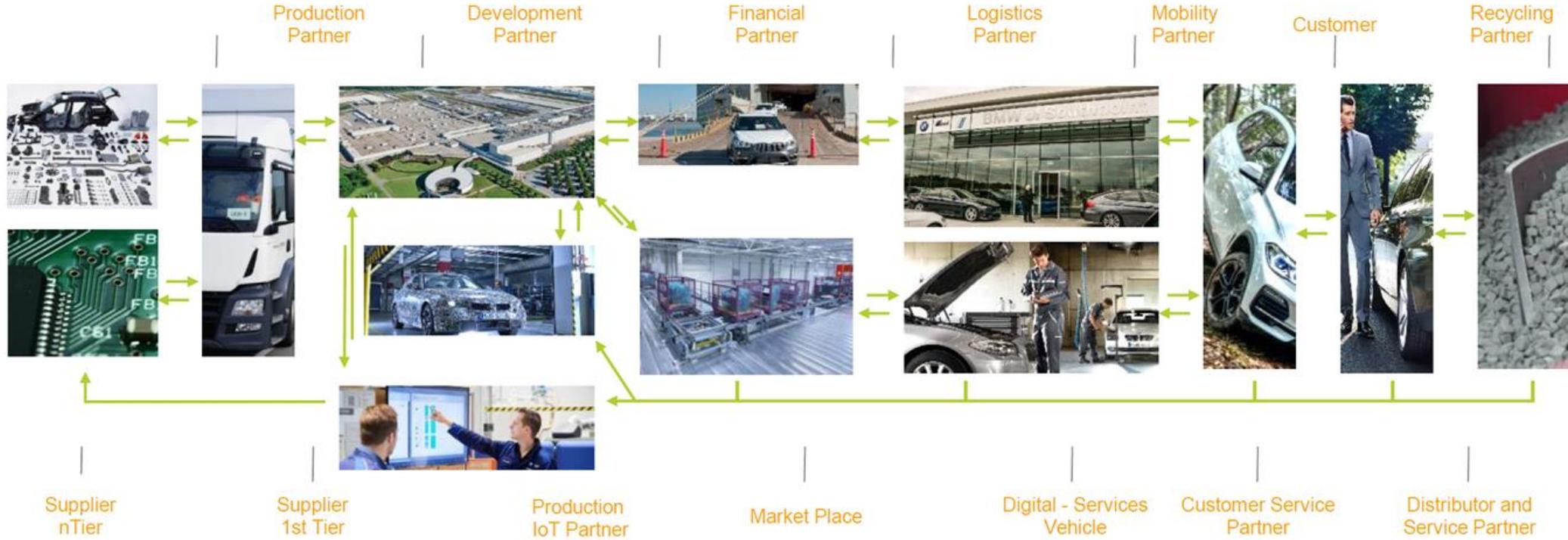
Network Mission

"We offer the **most user-friendly environment** for building, operating and collaboratively **using end-to-end data chains**, along the entire automotive value chain.

The resulting **data ecosystem** sustainably **differentiates us** as a location, industry and ultimately as an individual company. **It rewards all participants** with superior resilience, innovation and revenue opportunity."



# Scope of „Data Driven Value Chain“



Industry Platform

Providing the most user-friendly environment for building, operating and collaboratively using end-to-end data chains along the entire (automotive) value chain



**Catena-X**  
Automotive Network



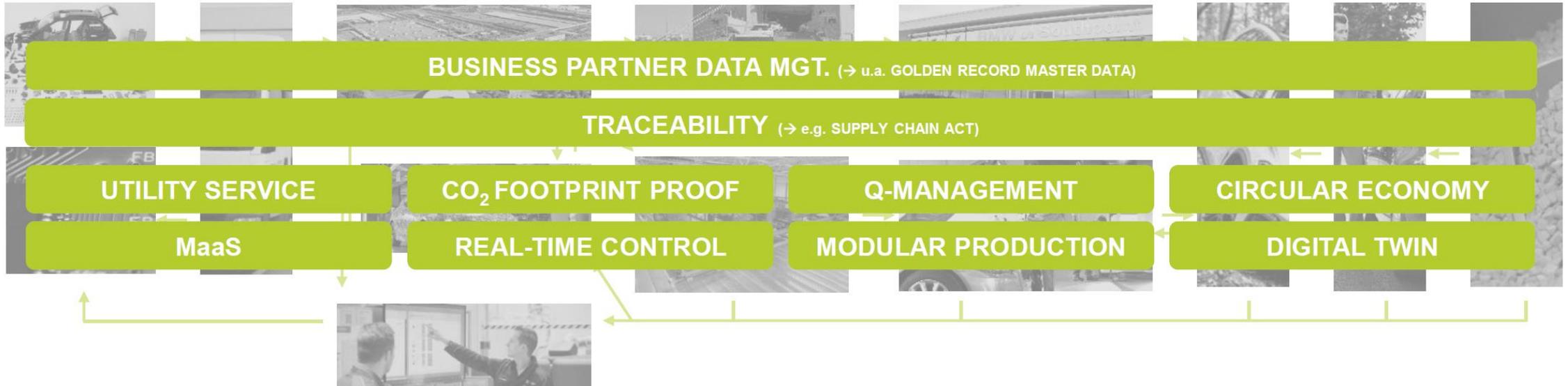
# 28 strong Partners cooperate with the BMWi (KoPa35c) for the initial Setup of this Data Ecosystem → Catena-X.



# Vision & Guiding Principles

-  **Consensus of the pioneers:** Significant need for action to meet the challenges of the automotive industry. Creation of a German / European investment in interoperable and secure information exchange and network-based services.
-  **Alliance Vision:** Provisioning of a user-friendly environment for building, operating and collaborating on end-to-end data chains along the entire (automotive) value chain.
-  **Guiding principle:** Collaborative approach to selecting and implementing scalable, system-relevant use cases. Covering the entire value chain of the automotive industry, regardless of company size.
-  **Security & Openness:** Openness and non-discriminatory access to the network as the overriding principle for all market participants. Implementation of data sovereignty, security & interoperability principles based on Gaia-X & concepts of IDSA.
-  **Openness to technology:** Openness and interoperability of the technology landscape (multi-tech approach). Based on standards, a solution portfolio of certified, network-based applications and solutions is created.
-  **Industry standards:** Validation of the Gaia-X principles and management of industry-specific requirements by the association. Open exchange for the Catena-X standards and certifications with industry-relevant standardization bodies where appropriate.

# Catena-X starts with Ten Use Cases (Apps) and focuses on eliminating Barriers for Partners, especially SMEs.



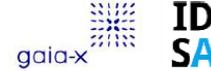
# Catena-X Operating System / Architecture

One Operating System

## Data Sovereignty & Interoperability (europ. architecture)



Decentralized data rooms



Competition at application level

## One Operating System (decentralized, federated, FOSS)



Operating System on GitHub



Plug and Play - Standardized APIs

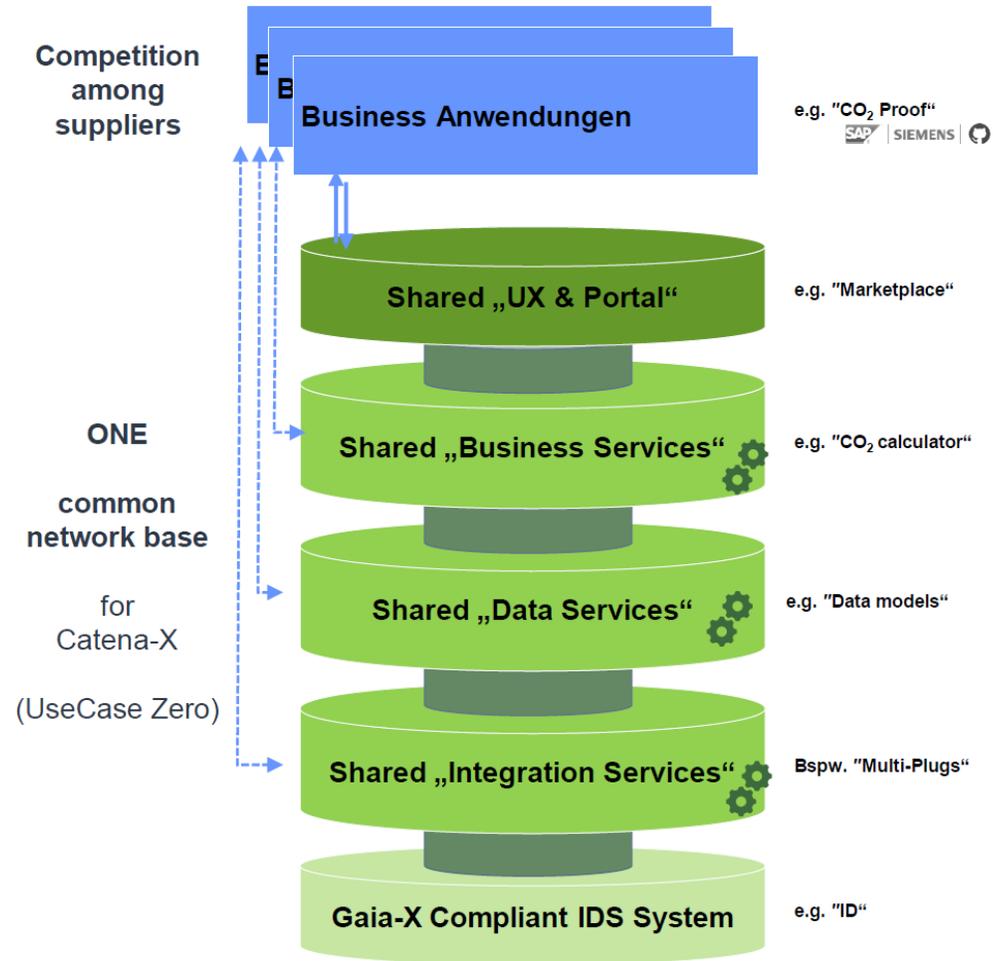
## Collaborative and agile product development



Eclipse Open Source Community



100% Agile working model



# **THANK YOU!**

For additional information about the activities of the Finnish Gaia-X hub,  
please contact [gaiax@sitra.fi](mailto:gaiax@sitra.fi)