

GAIA-X AND THE EUROPEAN DATA SPACES

Building a European **Data Economy** is part of the **Digital Single Market** strategy.

It seeks to foster the free sharing of data between member countries following the values of:

- Self-determination
- Privacy
- Transparency
- Security
- Fair competition

The European Commission estimates that the Data Economy will reach a value of:

- 829 billion euros** for the 27 member countries
- This represents **of GDP**
- It will employ **10,9 million** professionals



Benefits of data sharing between public and private bodies:

- Possibility of reciprocal access to third party data
- New business opportunities
- Faster and more innovative product development
- Diversity of data for training machine learning systems
- Enrichment of internal analytics
- Improved transparency and reputation



WHAT ARE DATA SPACES?

Ecosystem where different actors **share data in a voluntary and secure manner**, following common governance, organisational, regulatory and technical mechanisms.

Characteristics:

- They enable peer-to-peer data sharing.
- They guarantee the **sovereignty** of participants, who retain control of their data.
- They promote **trust**, through approval or certification mechanisms.
- Are **independent of the underlying technological solution**.
- Ensure **interoperability** with other data spaces.
- They allow the deployment of different roles.
- Data is shared under **FAIR principles**.



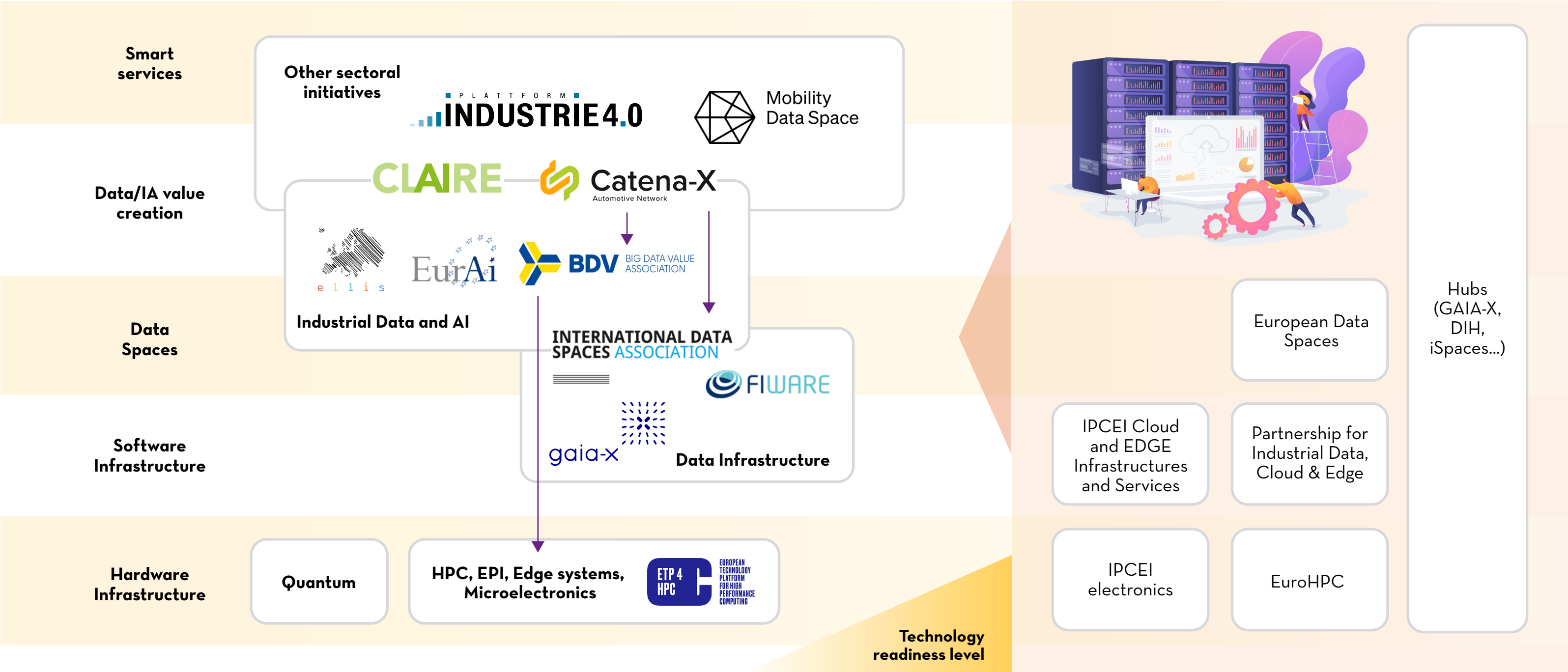
The EU aims to invest in and develop **common data spaces** in strategic economic sectors and sectors of public interest.

Sectors of public interest

- Manufacturing
- Sustainable energy
- Mobility
- Health
- Education
- Science
- Financial sector
- Energy
- Agricultural sector
- Public administration
- Cultural heritage
- Media
- Tourism

EUROPEAN DATA-RELATED INITIATIVES

Europe endorses various measures and initiatives for the development of secure and sustainable digital infrastructures:



SOME OF THEM ARE:

1 Gaia-X: European private sector initiative for the creation of an open, federated and interoperable data infrastructure, built on the values of digital sovereignty and data availability.

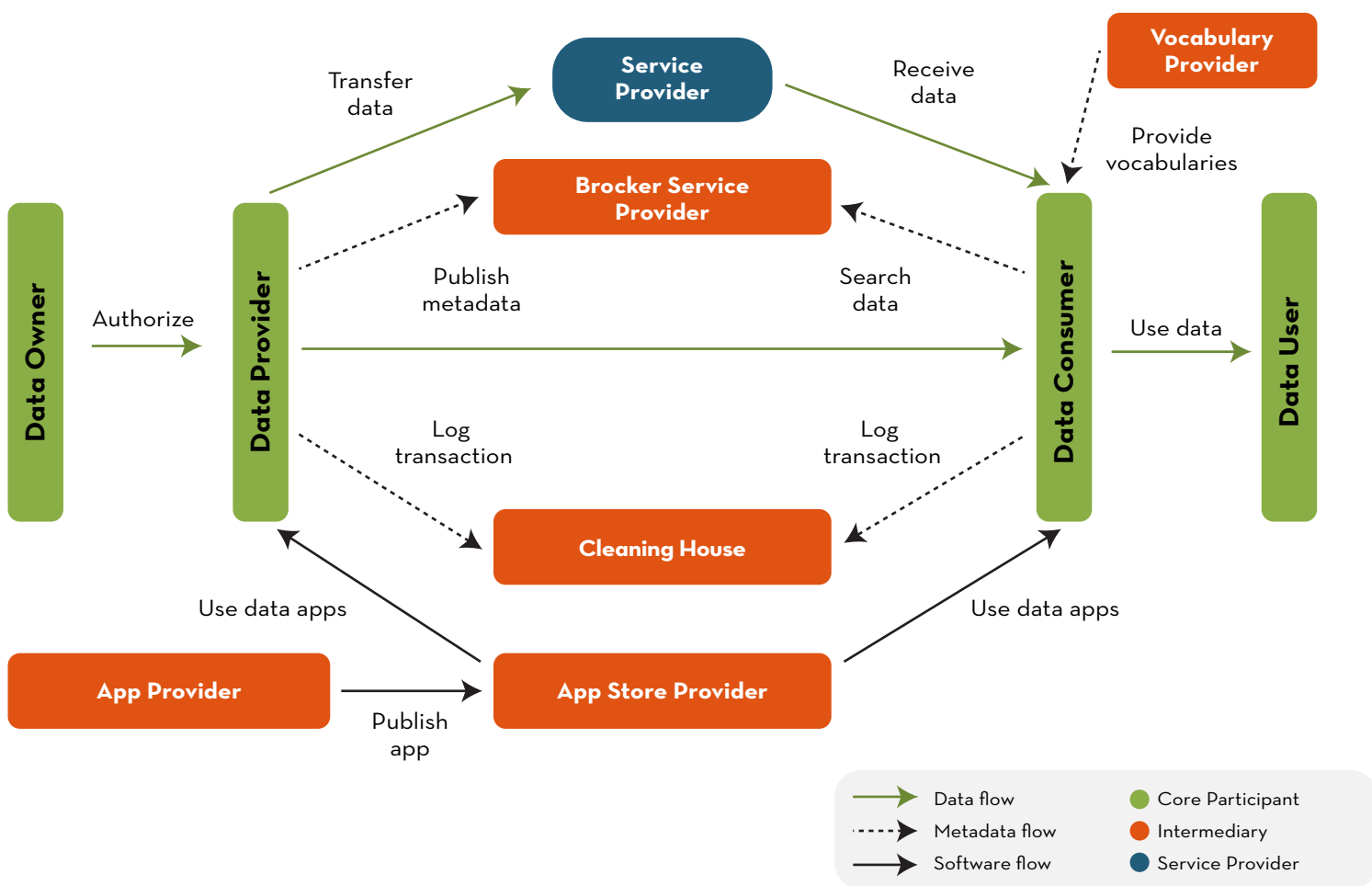
Gaia X Fundamental Principles:

- Openness**
Specifications and code available to all users
- Inclusive**
Open to any member or country inside or outside Europe
- Transparent**
Available for users to examine the features of the services in a trusted environment
- Free of charge**
Code and specifications at no additional costs
- Sovereign**
Self-determination from a digital and technical perspective, independent of the underlying technological infrastructure
- Federated**
Organized under the distributed cloud model where to materialize spaces for data sharing and use
- In accordance with FAIR principles**
Environment that facilitates findability, accessibility, interoperability and reusability
- Innovative**
Integrating emerging concepts: decentralized architectures, distributed consensus, compute to data, etc
- Independent**
Independent project that is funded by membership fees
- Evolutionary**
Subject to the principle of continuous improvement

Source: "Vision & Strategy" report by Francesco Bonfiglio, CEO Gaia-X (16 December 2021)

2 IDSA: Coalition of international companies that seeks to boost the global digital economy through an architectural reference model called IDS.

Connector Flow in IDS-RAM:



THE DATA ECONOMY IN SPAIN

The Data Economy is one of the main axes of **Spain Digital 2025**.

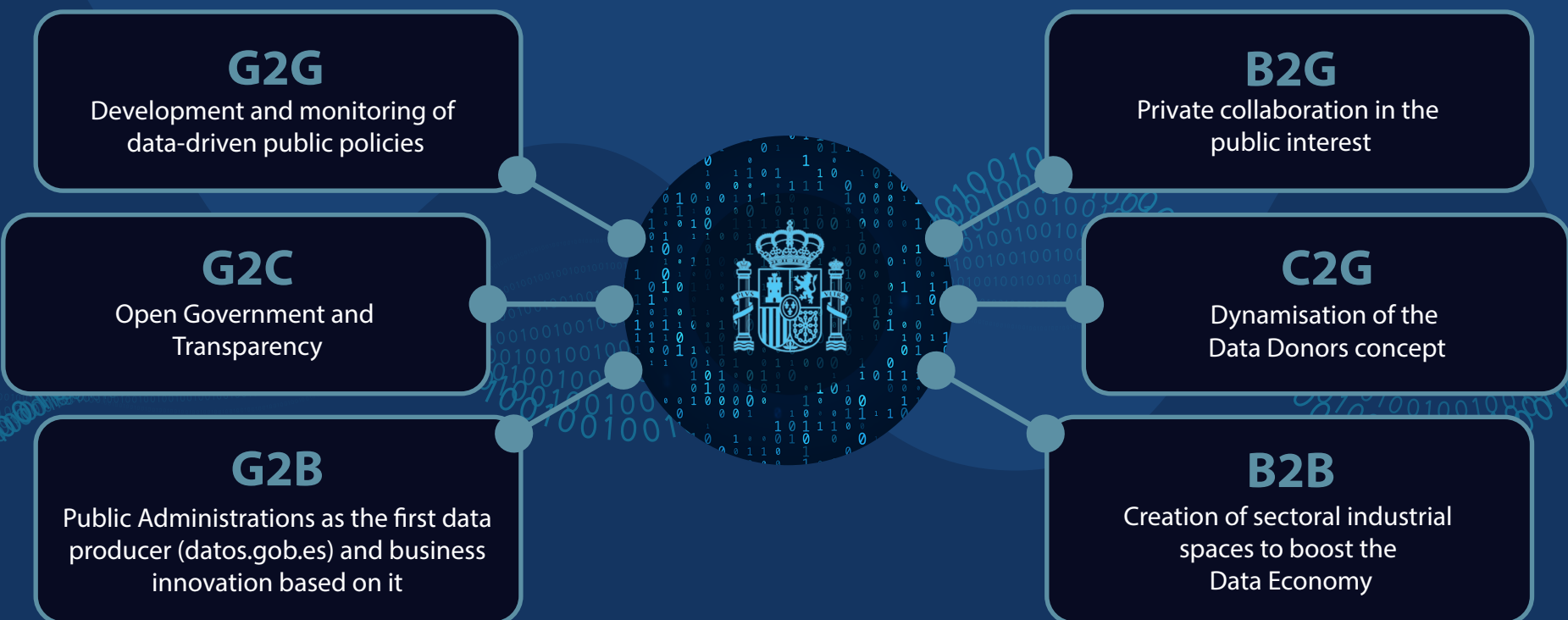
DIGITAL SPAIN 2025 Axis 9: Data Economy and AI

This includes, among others:

- Making Spain a benchmark in the transformation towards a Data Economy
- Promoting AI as a driver of innovation and social, inclusive and sustainable economic growth

The Data Office is the unit in charge of designing and proposing **strategies to promote the sharing, management and use of data**.

Areas of activity of the data office:



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