



DG CNECT  
October 2022

[#DigitalEuropeProgramme](https://twitter.com/DigitalEuropeProgramme)

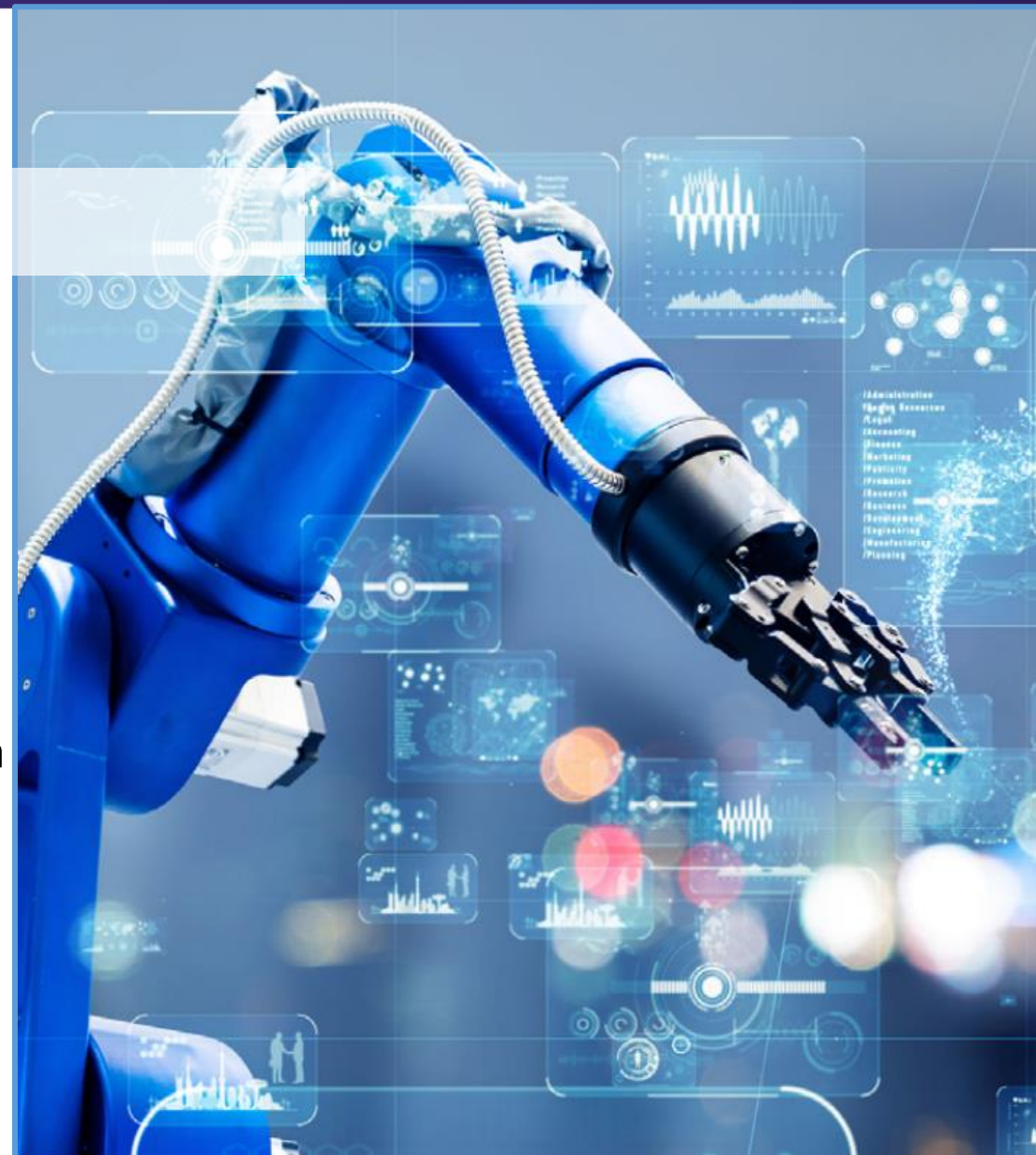


## Data Spaces one definition (of many)

A data space can be defined as a federated data ecosystem based on shared policies and rules. The users of such data spaces are enabled to access data in a secure, transparent, trusted, easy and unified fashion.

Data holders are in control of who can have access to their data, for which purpose and under which conditions it can be used.

From a technical perspective, a data space can be seen as a data integration concept which does not require common database schemas and physical data integration, but is rather based on distributed data stores and integration on an “as needed” basis.





# Design principles for common European data spaces

Tools to control, pool, access, use and share all types of data in a fair, reasonable and non-discriminatory manner

**Data access and control**

**Governance**

Governance structure (mechanisms) to ensure fair, transparent, proportionate and non-discriminatory access to, sharing and use of data.

Comply with applicable EU legal framework, and put in place adequate measures to prevent unauthorised access to data

**Respect of EU rules and values**

**Interconnection and interoperability**

Based on common standards, FAIR principles to progressively lead to single EU data space

Open to all actors (organisations/individuals) that respect EU rules and values and comply with data space rules

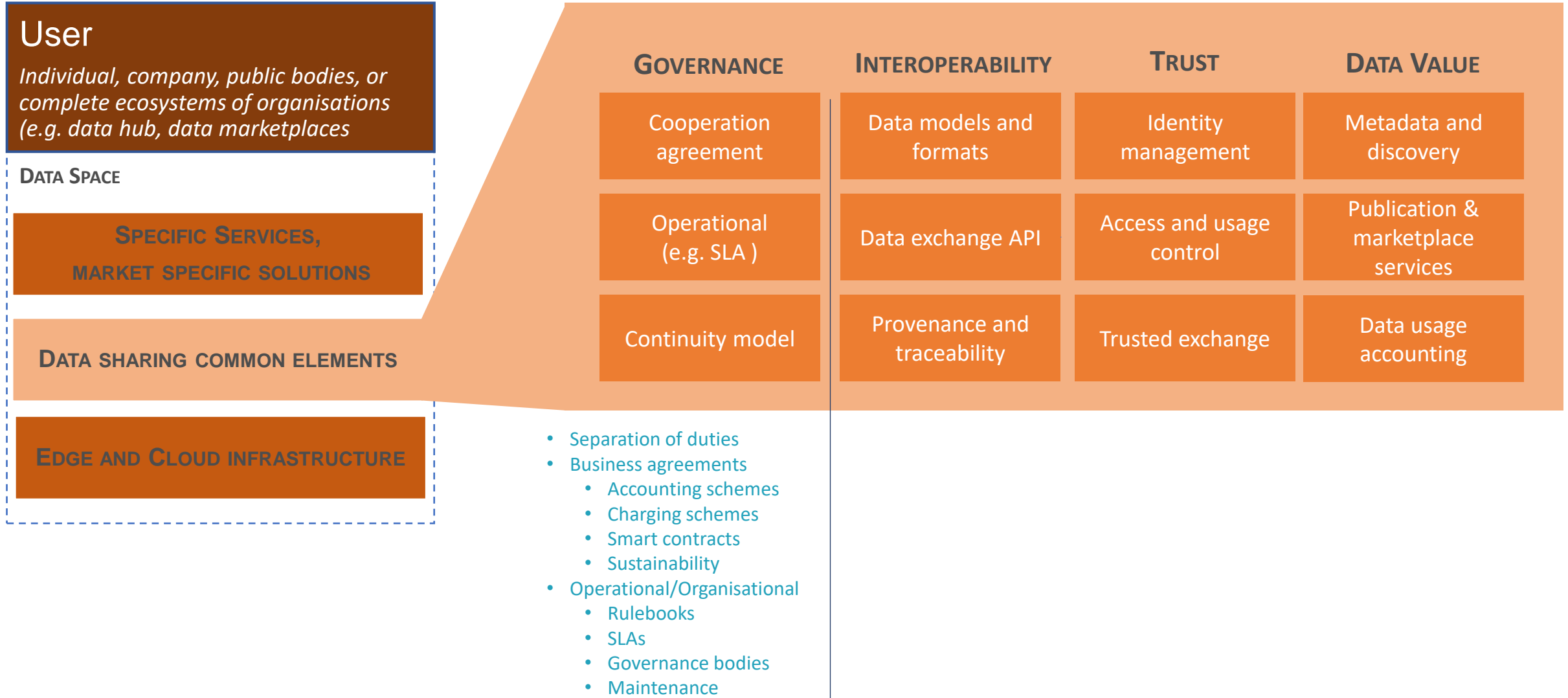
**Openness**

**Technical data infrastructure**

Common technical data infrastructure (including sector-specific framework and cybersecurity- and data protection-by-design principles)

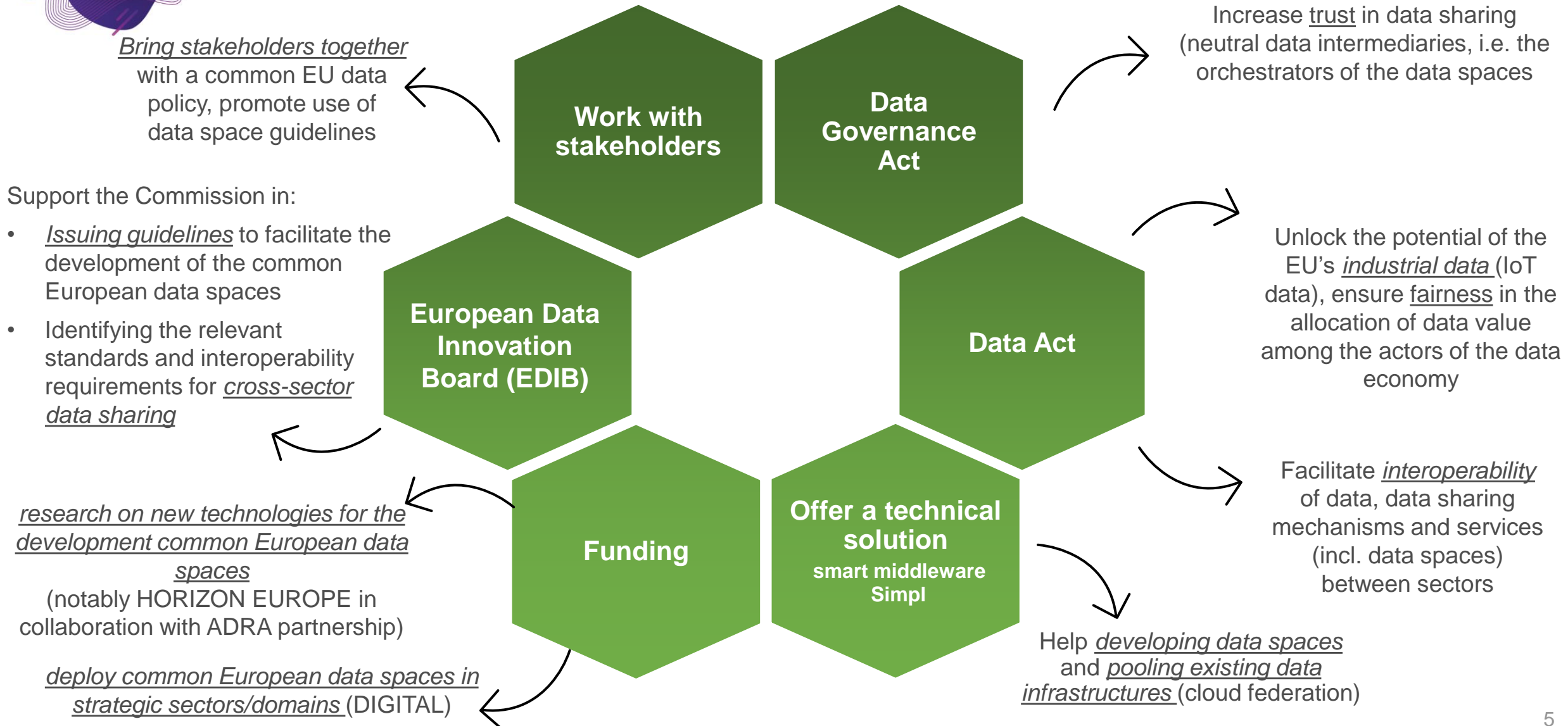


# Data spaces common elements





# The EC's role in supporting the creation of data spaces





# Common European data spaces



High Value Datasets from public sector

- Driven by stakeholders
- Rich pool of data of varying degree of openness
- Sectoral data governance (contracts, licenses, access rights, usage rights)
- Technical tools for data pooling and sharing

## Data Spaces Support Centre

- Coordinating the development of data spaces
- Assuring common standards and interoperability

## Technical infrastructure for data spaces





# Staff working document on data spaces



<https://digital-strategy.ec.europa.eu/en/library/staff-working-document-data-spaces>