



**DATA SPACES
SUPPORT CENTRE**

The Common European Data Spaces and the Data Spaces Support Centre

Gianfranco Cecconi · Executive Director · Data Spaces Support Centre

13th October 2023

Data space concept – A definition, what it is, and what it is not

*A **distributed system** defined by a **governance framework**, that enables trustworthy **data transactions** between **participants** while supporting **trust** and **data sovereignty**.*

(DSSC Glossary)

What is it?

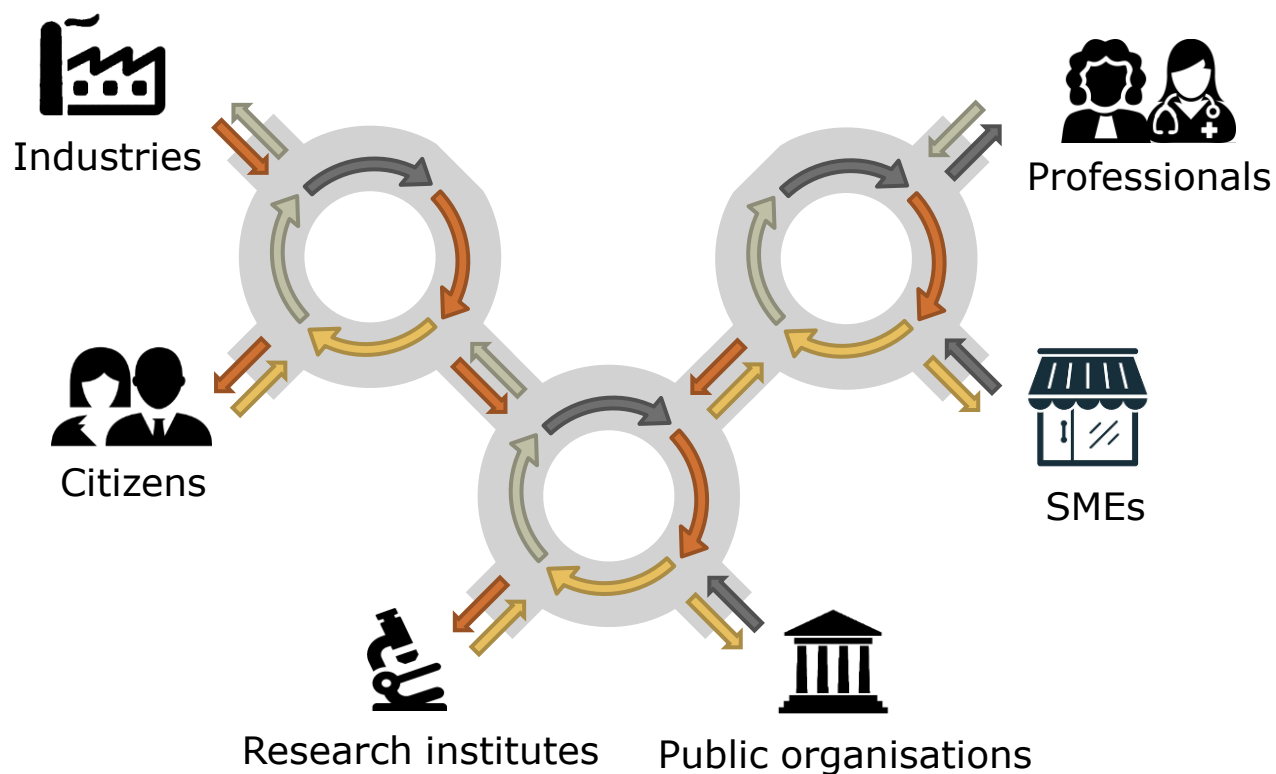
Several infrastructures supporting one or more use cases:

- Distributed structure
- Governance framework
- Enabling trusted data transactions
- Enabling data sovereignty

What is it not?

- A data lake
- Only its participants
- Only a data platform
- Only a digital ecosystem

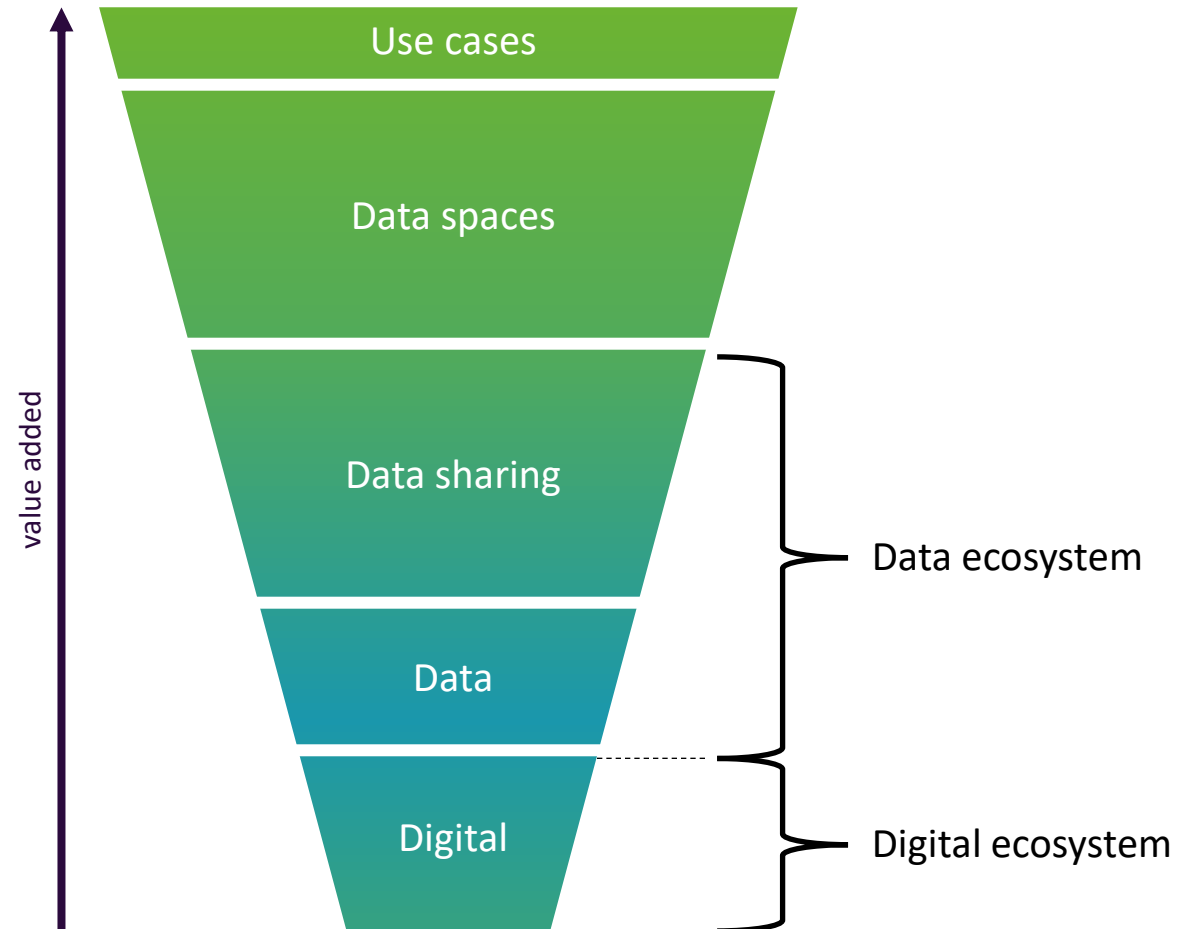
Data space concept – The ecosystem view



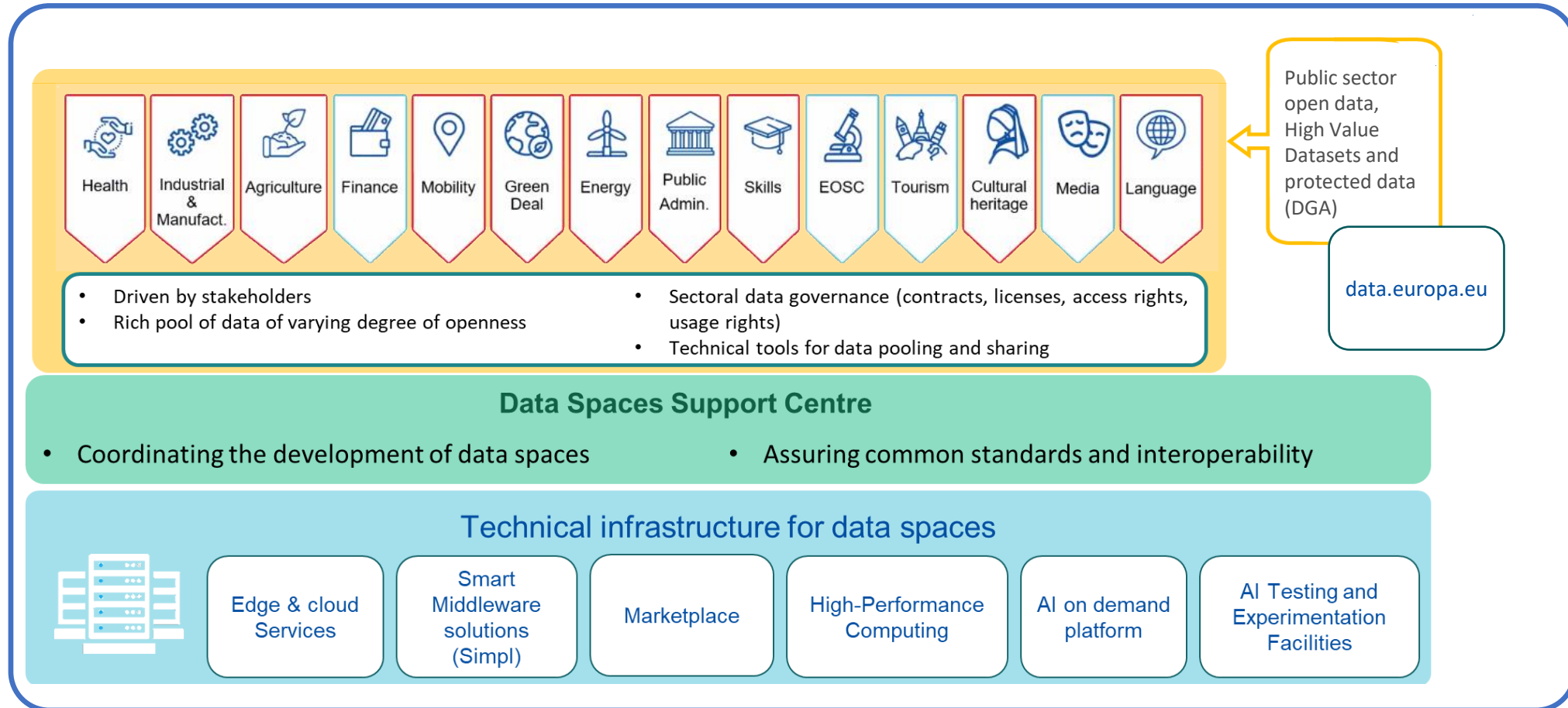
- A data space can also be defined as **the federated data ecosystem** based on **shared policies and rules**.
- The participants of such data spaces are enabled to access data in a secure, transparent, trusted, easy and consistent fashion.
- From a technical perspective, a data space can be seen as 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.

Value of data spaces

- The value of data spaces relies on the value of data sharing and therefore on the value of data and digital services
- Data spaces operate in digital ecosystems and inherit some of their characteristics
- The data offered in data spaces finds application in concrete use cases



Common European Data Spaces



Common European Data Spaces actors 1/2



Data Spaces Support Centre

- **coordination of all relevant actions** on sectoral data spaces in Europe
- blueprint, best practices, common standards, support activities and knowledge transfer
- funded by the DIGITAL Europe Programme

Data Space Coordination and Support Actions (CSAs)

- paving the way for **sectoral/domain-specific** data spaces
- community of practice, priority datasets, stakeholder engagement, governance/business models, roadmap
- funded by the DIGITAL Europe Programme

Data Spaces

- **actual data spaces** that are already in operations, like the Cultural Heritage Data Space and the Data Space for Language
- funded by the DIGITAL Europe Programme

Common European Data Spaces actors 2/2



European Data Innovation Board (EDIB)

- Consultative and advisory body established by the Data Governance Act, to kick off operations in November 2023
- **guidelines** for interoperability of common European data spaces

Simpl (Smart Middleware Platform for Cloud-to-edge Federations and Data Spaces)

- **Simpl-Open:** curation / development and maintenance of a suite of **open-source components** providing the functionality specified in the DSSC technical building blocks (Simpl-Open)
- **Simpl-Live:** build and operations of a **production-grade SaaS offering Simpl-Open** to the Common European Data Spaces
- **Simpl-Labs:** like for Simpl-Live, but for **experimental** components
- funded by the DIGITAL Europe Programme



DATA SPACES
SUPPORT CENTRE

The Data Spaces Support Centre (DSSC)

DSSC mission



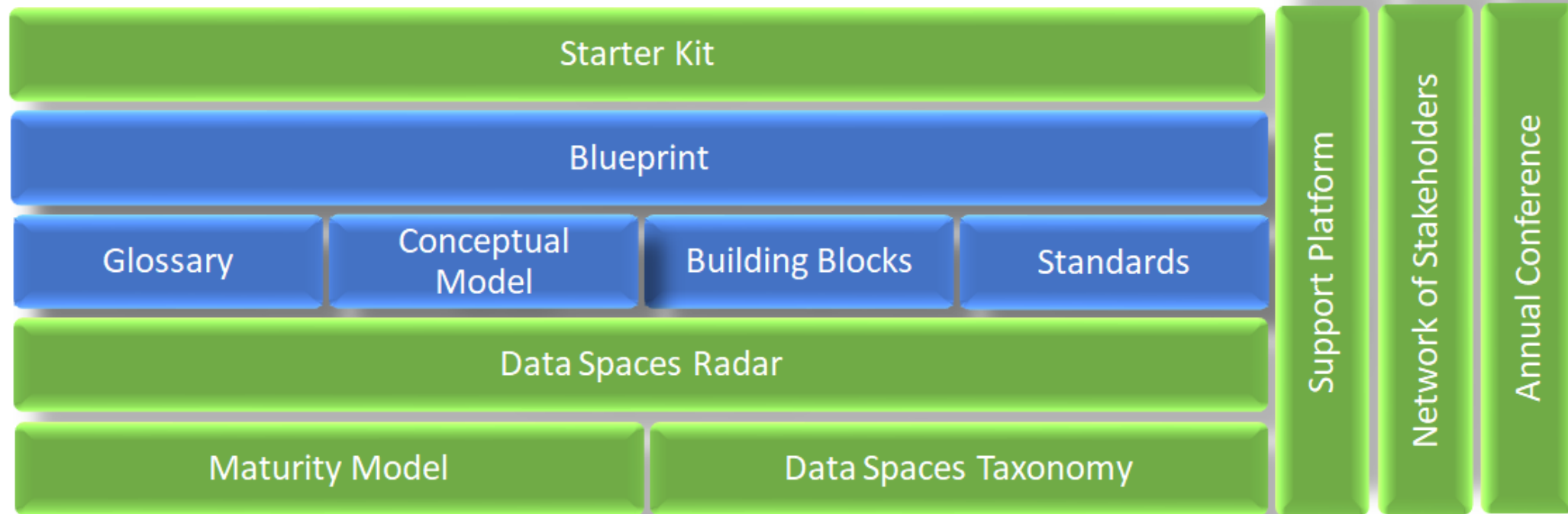
- Enable new European data spaces to **a faster start and scale-up**
- Provide the tools to address the **basic organisational and technical matters**, required by every data space
- This includes a **“Blueprint”**, best practices, common standards and reference implementations which will be developed according to a **co-creation process**
- Enable dataspaces to focus on their domain-specific business challenges and **provide business benefits to their participants**



The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412.



DSSC assets



Blueprint v0.5 just released

<https://dssc.eu/page/knowledge-base>



Starter Kit



Blueprint



Building Blocks



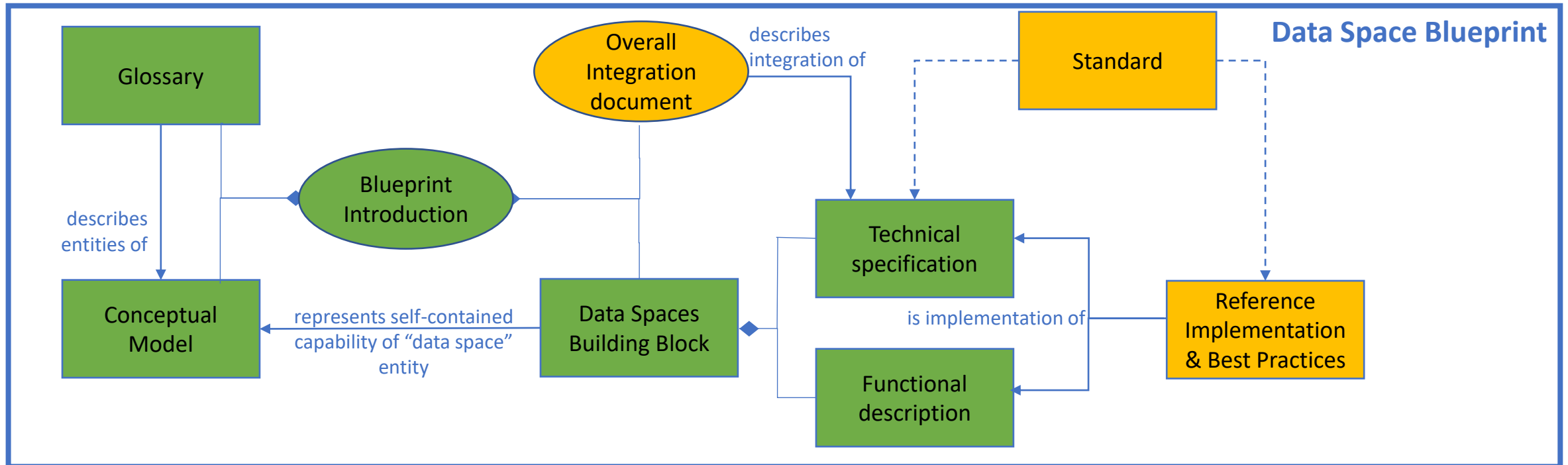
Conceptual model



Glossary

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412.

The DSSC Blueprint structure

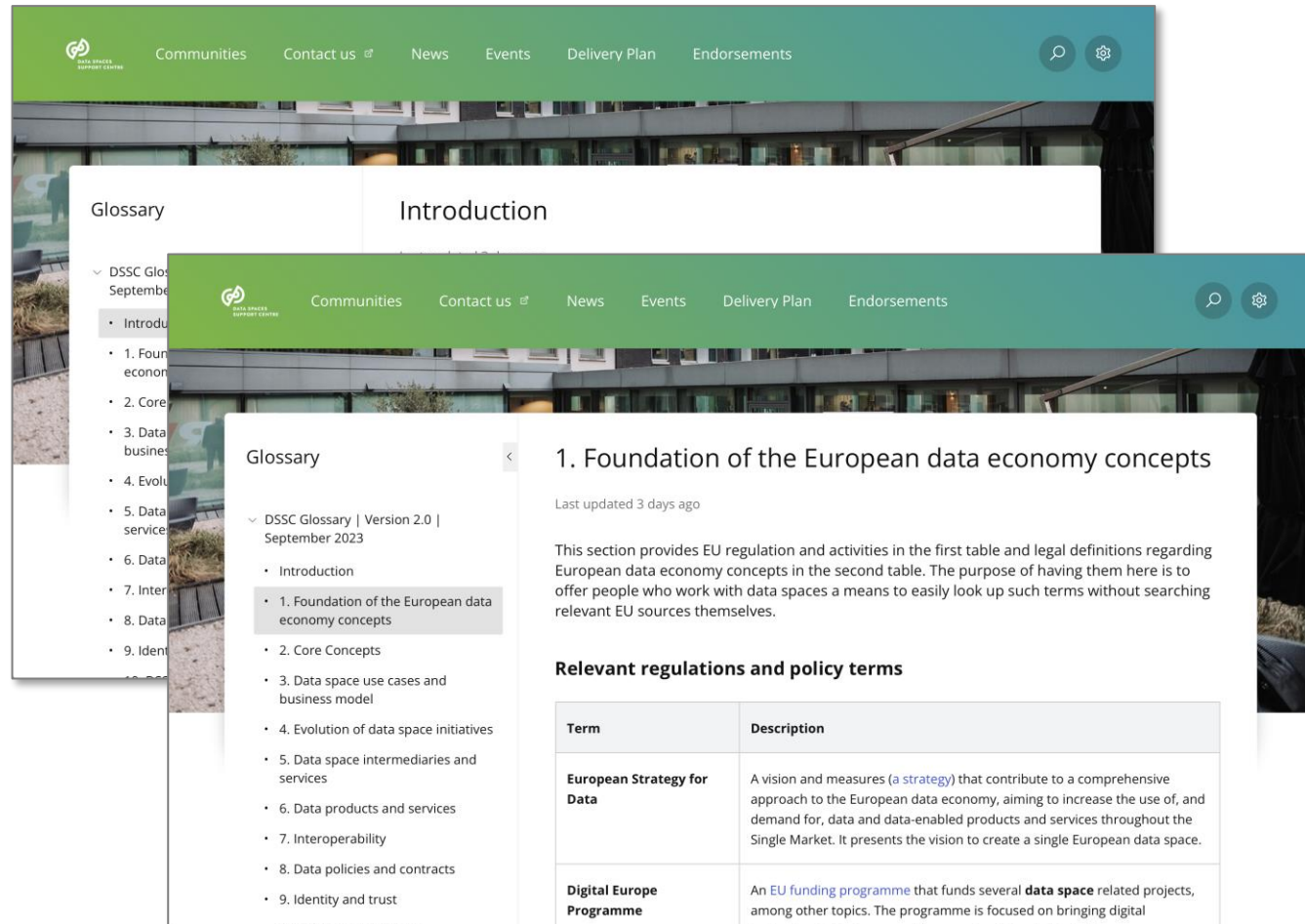


V0.5 – Available now

V1.0 – Publication in April 2024

Blueprint v0.5 elements - Glossary

- In **co-development** with the Common European Data Spaces (the “community of practice”)
- Aims at **developing a common vocabulary to describe data spaces** for publications and communications in DSSC, and possibly, beyond
- Terms are provided with a **criterion** and **definition** – The same term may have different meanings in different contexts
- **Inherits and adopts definitions** from EU official documents and legislation and and international standards, when suitable



The screenshot displays the DSSC Glossary website interface. The top navigation bar includes links for Communities, Contact us, News, Events, Delivery Plan, and Endorsements. The main content area is divided into two columns: 'Glossary' and 'Introduction'. The 'Glossary' column shows a list of sections, with '1. Foundation of the European data economy concepts' selected. The 'Introduction' column provides an overview of the glossary's purpose and structure.

1. Foundation of the European data economy concepts

Last updated 3 days ago

This section provides EU regulation and activities in the first table and legal definitions regarding European data economy concepts in the second table. The purpose of having them here is to offer people who work with data spaces a means to easily look up such terms without searching relevant EU sources themselves.

Relevant regulations and policy terms

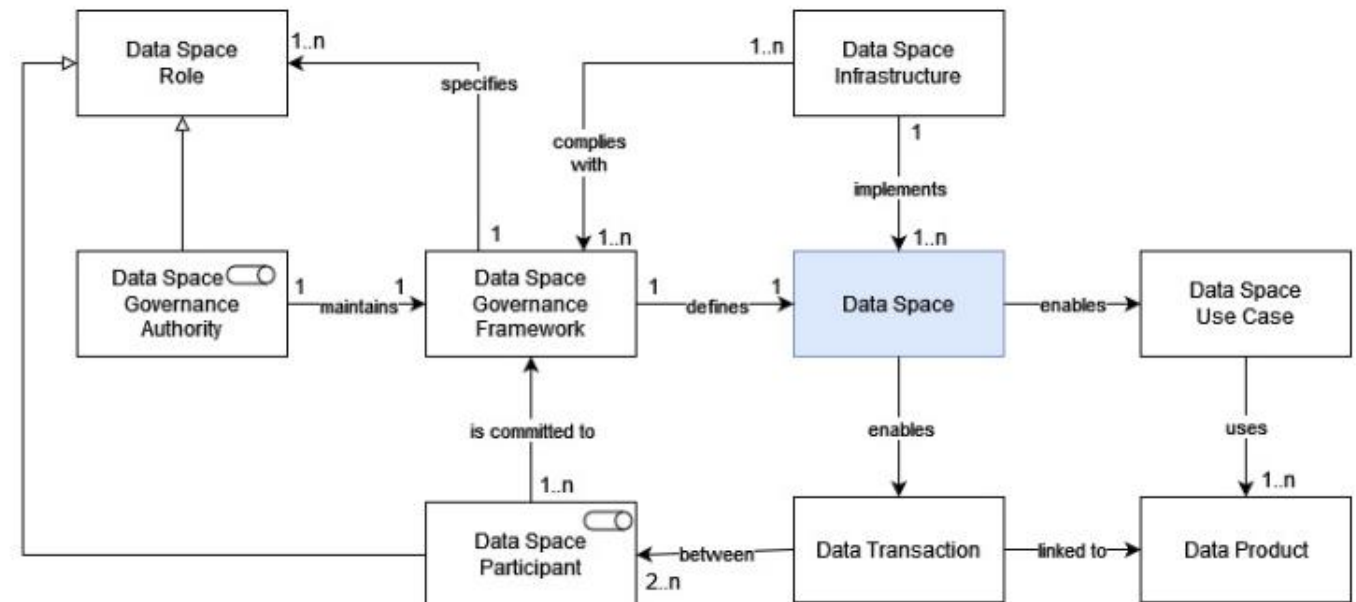
Term	Description
European Strategy for Data	A vision and measures (a <i>strategy</i>) that contribute to a comprehensive approach to the European data economy, aiming to increase the use of, and demand for, data and data-enabled products and services throughout the Single Market. It presents the vision to create a single European data space.
Digital Europe Programme	An EU funding programme that funds several data space related projects, among other topics. The programme is focused on bringing digital

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412.

Blueprint v0.5 elements - Conceptual Model

- Provides a **high-level description of the components that a data spaces is made of** - all of which are specified in the glossary
- Describes **the relationships between those components**
- In the future, it will also include:
 - An overarching view of the data space environment (level 0)
 - A detailed view of a few individual concepts (level 2)

Level 1: basic terminology and key concepts

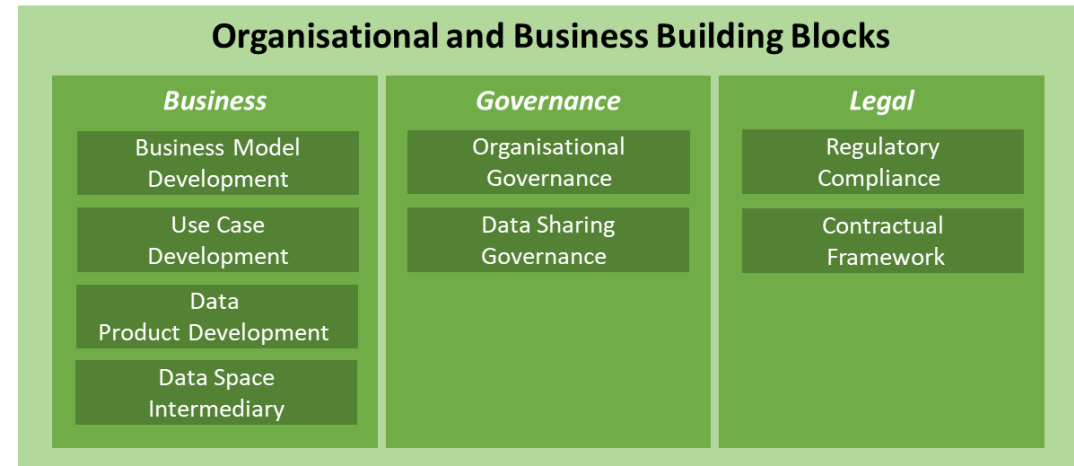


Blueprint v0.5 elements - Building Blocks

Organisational & business building blocks

Describe the capabilities that implement elements and aspects of:

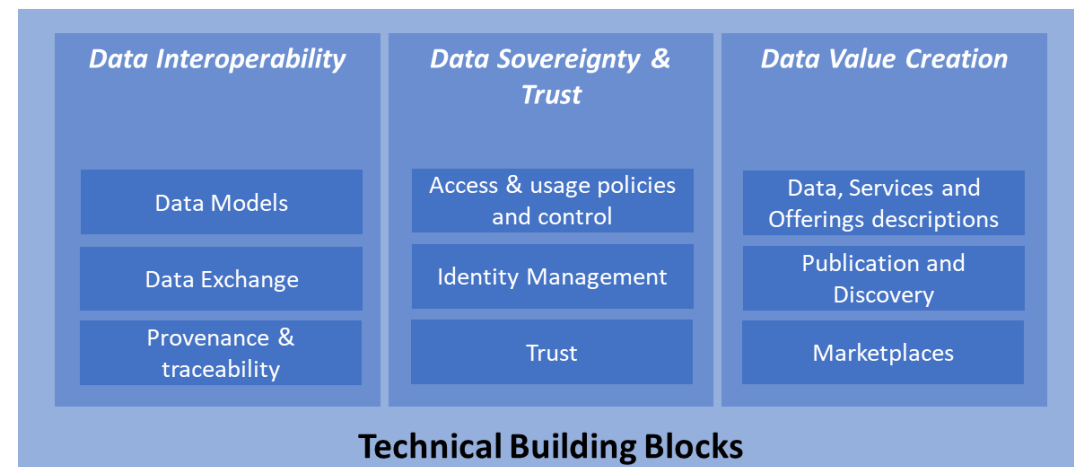
Business
Governance
Legal



Technical Building Blocks

Describe the technical capabilities that implement:

Data Interoperability
Data Sovereignty & Trust
Data Value Creation



How to stay up to date

- News and publications at dssc.eu
 - [Get support](#)
- Join the Thematic Groups
 - Knowledge base and periodic meetings
 - [Get involved](#)
- Monthly DSSC Insights Series
 - The latest was yesterday, fully dedicated to the Blueprint. The recording will soon be available at <https://www.youtube.com/@eudataspacesupportcentre>
- Keep yourselves available for the next Data Spaces Symposium in March 2024 in Germany