Data Spaces Symposium

13:30

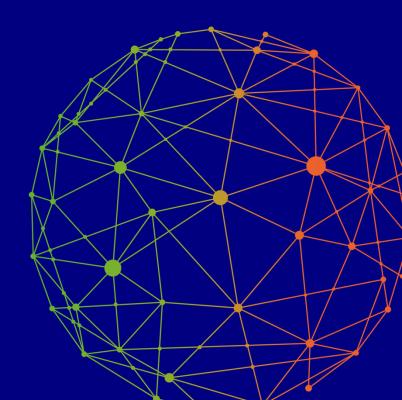
Designing and delivering the European single market for data

Data space tech [facilitated by the DSSC]

Designing and delivering the European single market for data (Part 1 of 2)

Questions? Use the QR-Code





Data Spaces Symposium

Setting the scene | Designing and delivering the European single market for data

Boris Otto

The Network of Stakeholders

Designing and delivering the European single market for data

Data Spaces Symposium 2025



Testimonials from our guests:



Georg Rehm, DFKI













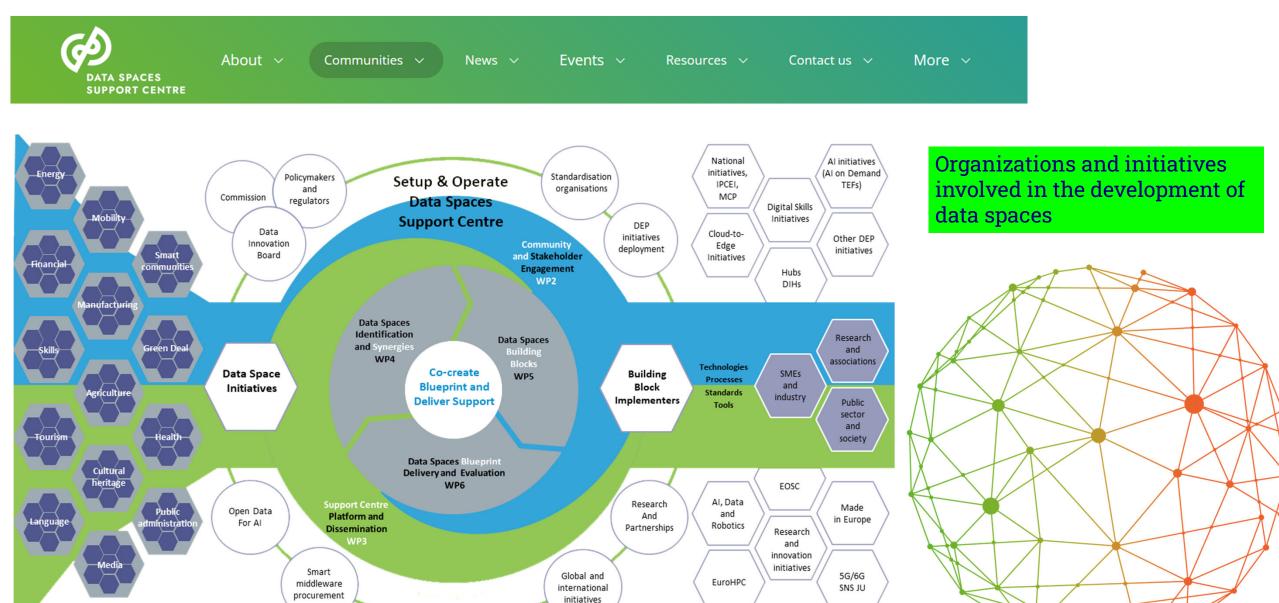




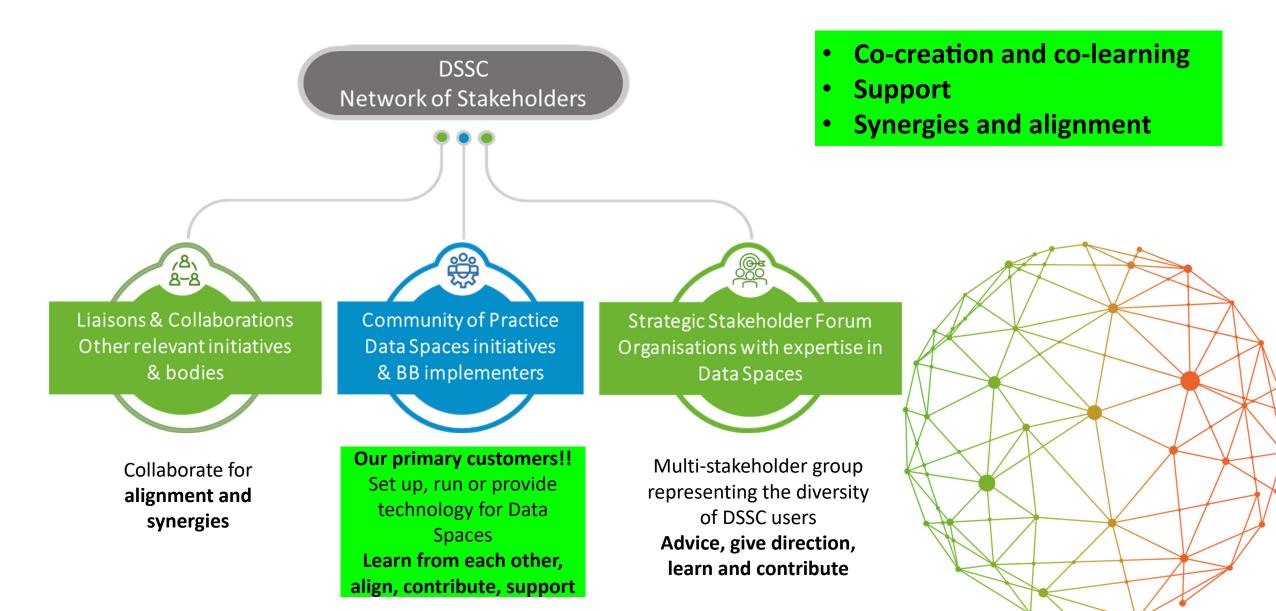




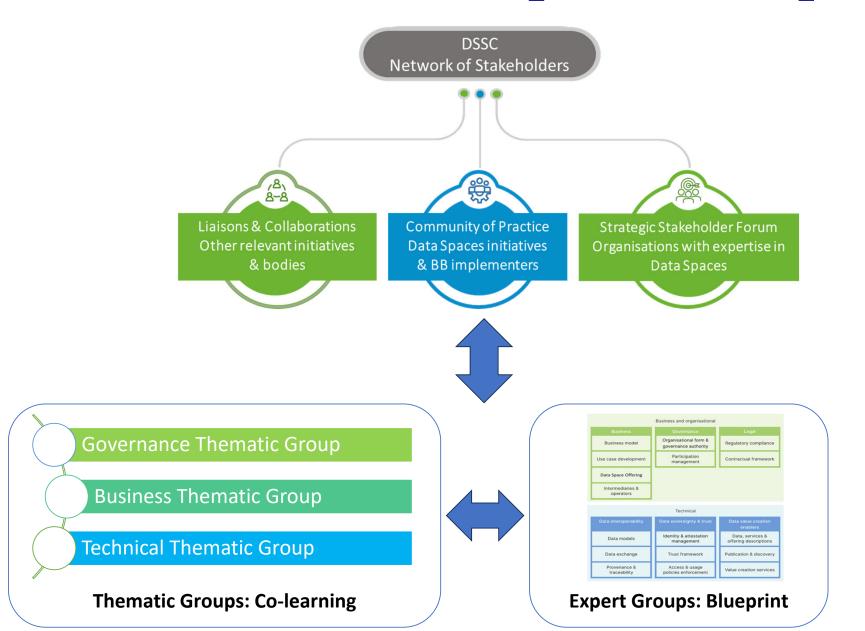
A Network of Stakeholders (NoS)?



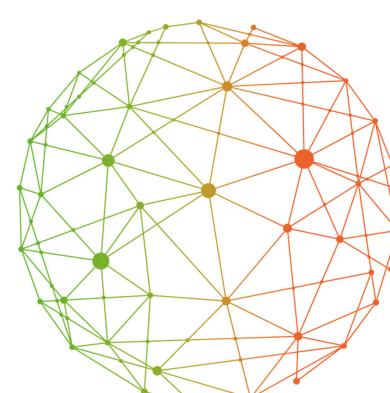
NoS: how is it organised?



Thematic and Expert Groups







Diving into the NoS: Community of Practice (CoP)

data4EUROPE























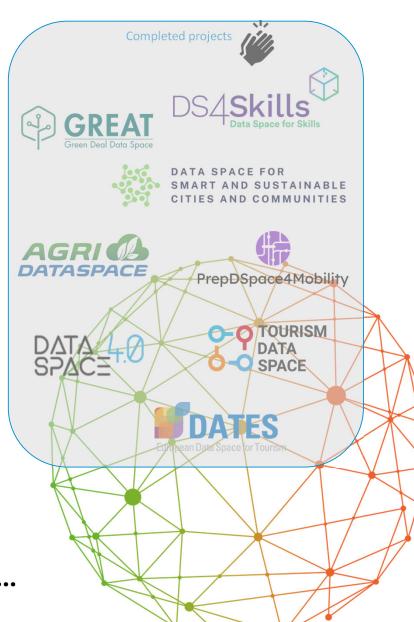








Focus on Digital Europe Programme (DEP) funded Data Spaces ... but ALL Data Spaces are relevant !!





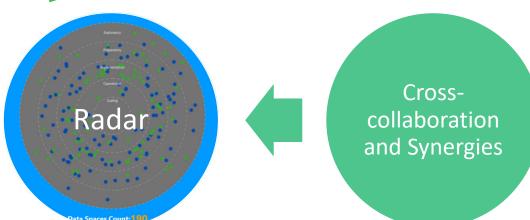
Relationship Managers Community of Practice (CoP): Activities

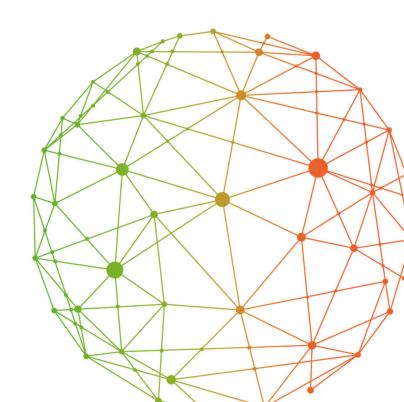
Impact and Maturity assessment



Thematic and Expert Groups







Diving into the NoS

Strategic Stakeholder Forum (SSF)





National Public Authorities & Agencies



REPUBLIC OF ESTONIA MINISTRY OF JUSTICE AND DIGITAL AFFAIRS



REPUBLIC OF SLOVENIA MINISTRY OF DIGITAL TRANSFORMATION

RTOs













National/Regional data spaces enabling initiatives







Data Intelligence Initiative Association for Data Economy Development



Industry Associations







Non-Profit Associations & Technology Platforms























Industry SMEs, Large and MidCaps











- Multi-stakeholder group representing the diversity of **DSSC** users
- 35 members in the Strategic Stakeholder Forum
- Targeting presence in all EU MSs (and beyond)



Thematic and expert groups

Regular feedback

Collaborative papers

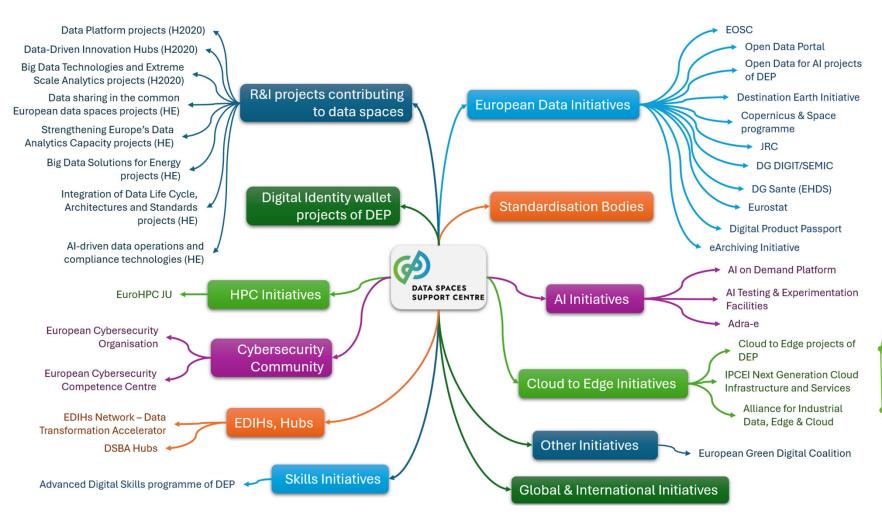
Collaboration and synergies

Strategic Stakeholder Forum (SSF): Activities



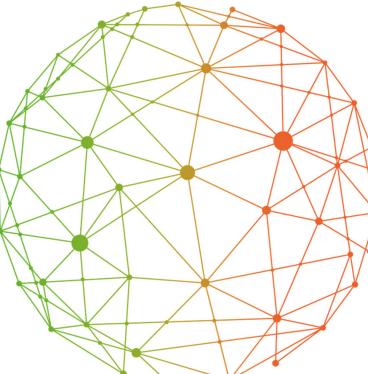
Diving into the NoS

Collaboration and Liaisons (I)

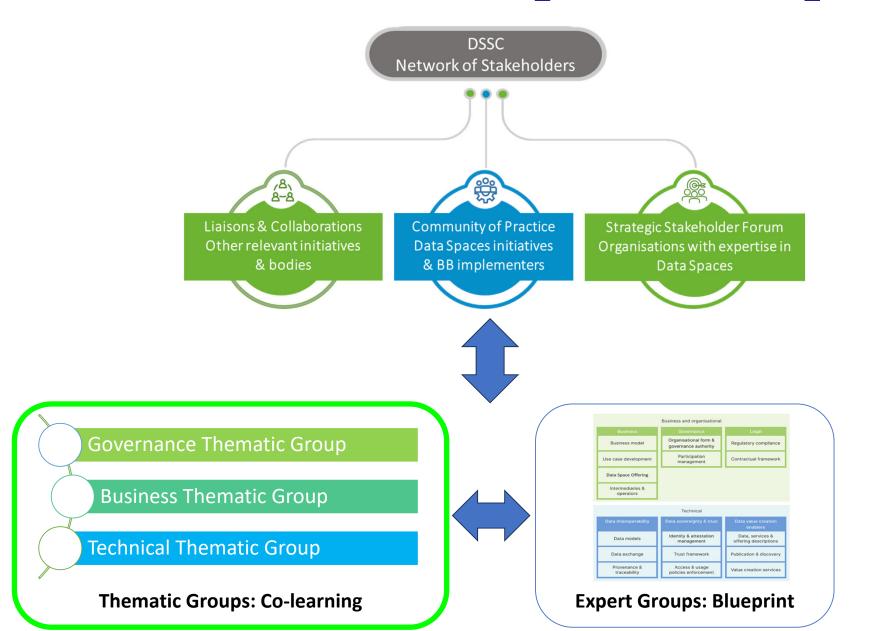


Collaboration with the European Data Innovation Board (EDIB)

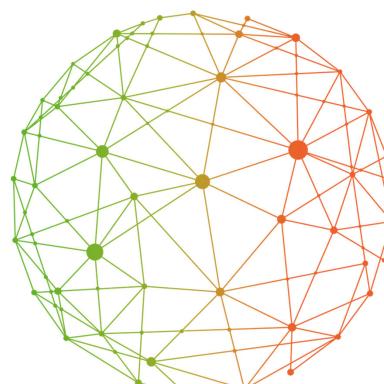
100+ initiatives engaged for alignment, influencing, knowl edge sharing and bringing requirements



Thematic and Expert Groups







Example Thematic Groups: **Technology Thematic Group**





Meetings / Topic	Thematic Group	3	
Follow up meeting 14/12/2023 - Provenance and Traceability	☐ Eight meeting	,	
Follow up meeting 11/01/2024 - Value Added Services	☐ Nineth meetii About		
Follow up meeting 15/02/2024 - Consent Management I	The "Technology of Data Spa	ce.	
Follow up meeting 07/03/2024 - Data Quality I	■ 11th meeting interested in technology and		
Follow up meeting 04/04/2024 - Blueprint v1.0	■ 12th meeting knowledge, sharing best prace of the Strategic Stakeholder F		
Follow up meeting 08/05/2024 - Consent Management II	a 13th meeting you are interested and can co		
Follow up meeting 13/06/2024 - Data Quality II	14th meeting - Technology TG (13 June 2024)	- Technology TG (13 June 2024)	
Follow up meeting 04/07/2024 - Data Space Connectors	15th meeting - Technology TG (4 July 2024)		
Follow up meeting 05/09/2024 - Data Spaces Federation	■ 16th meeting - Technology TG (5 September 2024)		
Follow up meeting 10/10/2024 - DSSC Blueprint v1.5	17th meeting - Technology TG (10 October 2024)		
Follow up meeting 07/11/2024 - DSSC Blueprint v2.0	■ 18th meeting - Technology TG (21 November 2024	1)	
Follow up meeting 12/12/2024 - Data Spaces architectures and infrastructures	■ 19th meeting - Technology Meet the 1	Γh	
Follow up meeting 23/01/2025 - Data Provenance and Traceability	20th meeting - Technology		
Follow up meeting 20/02/2025 - SIMPL architecture and components	☐ 21st meeting - Technology ☐	ara VI	

Group Technology of Data Spaces

Data Spaces" Thematic Group brings together experts, professionals and researchers ology and technical challenges in Data Spaces with the main objective of sharing best practices and identifying and co-creating new knowledge. If your organisation is part ceholder Forum, Community of Practice or our larger Network of Stakeholders (NoS) and and can contribute to this topic you are very welcome to join us!

leet the Thematic Group leads



Clara Pezuela **台** VP Funded Programs



Daniel Alonso Senior Technical Lead Big Data and Al ecosystems

Interested in collaborating with us?

Join us !!!



Welcome! You can raise a request among the following options.

What can we help you with?



Submission to the Toolbox

Submit a request to list implementations in the DSSC Toolbox.



Get Informatio

Looking for a document, not sure about a definition, missing an information about the DSSC?



Get Suppor

Looking for practical support while setting up your data space project?



et Involved

Looking to collaborate with the DSSC on the co-creation of assets?



Subscribe to the Newsletter

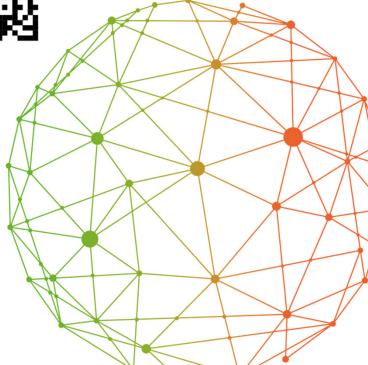
Get monthly highlights about DSSC activities, events and important publications.



Provide feedback and contributions

Submit your requests for contributions and feedback about DSSC assets, including building blocks implementations.





The Network of Stakeholders

Designing and delivering the European single market for data

Data Spaces Symposium 2025

Testimonials from our guests:



Georg Rehm, DFKI



Kuldar Aas, Ministry of Justice and Digital Affairs, Estonia















Starter kit

Designing and delivering the European single market for data

Data Spaces Symposium 2025



Tuomo Tuikka VTT

Our Guest:



Desislava Petrova-Antonova GATE institute

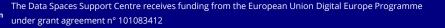


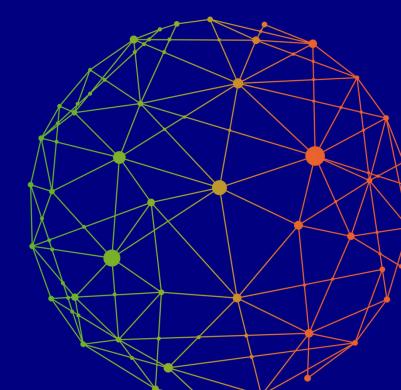












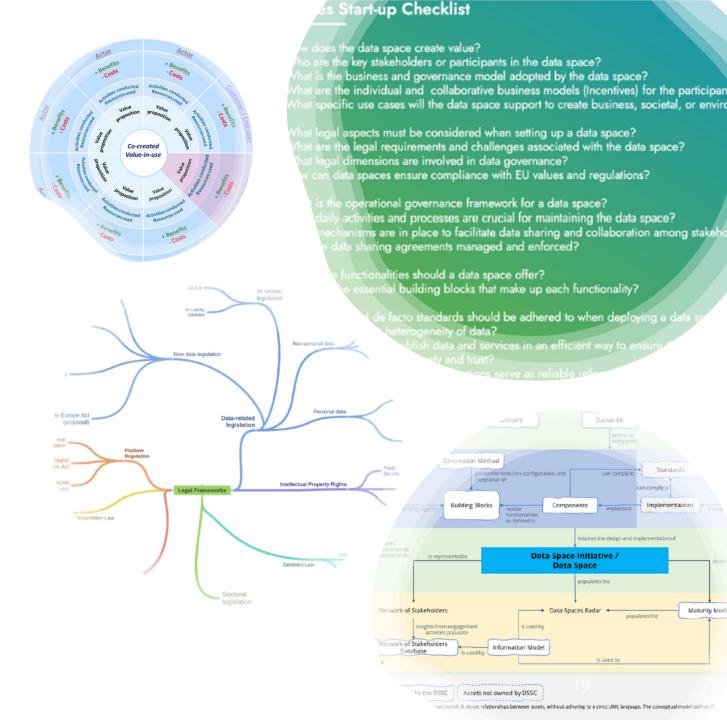
Starter Kit

- An easy introduction to data spaces and Data Spaces Support Centre
- Helping emerging data spaces
- For data space designers, data producers, data consumers, providers of intermediary services, or services and business applications.



Starter kit contents

- Explaining basic concepts
- Data Spaces Support Centre assets
- Data Space Start-up Checklist
- Design Approach
- Resources



Interoperability Layer



Intra-Data Space Interoperability

Updates 2024 ->







Interoperability and data quality section

Data interoperability
Intra-data space
cross-data space



Glossary checks



Building block overview

Starter kit

Designing and delivering the European single market for data

Data Spaces Symposium 2025



Tuomo Tuikka VTT

Our Guest:



Desislava Petrova-Antonova GATE institute

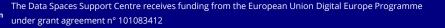


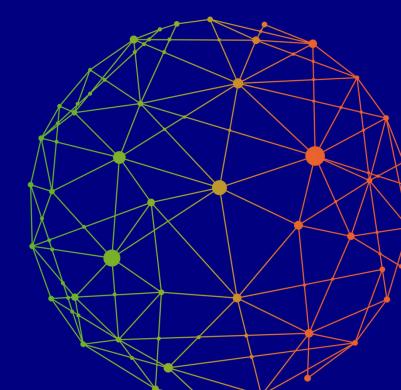












The Design Principles

Designing and delivering the European single market for data

Dr. Rafiqul Haque, NUI Galway

Data Spaces Symposium 2025



Dr. Rafiqul Haque Insight, National University of Galway

Our Guest:



Valentine Charles Europeana Foundation











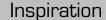


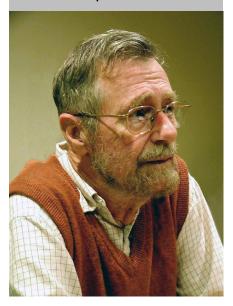


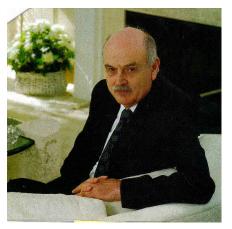




What is in it for data spaces?







"A **principle** may relate to a **fundamental truth** or **proposition** that serves as the **foundation** for a **system** of **beliefs** or **behaviour** or a **chain** of **reasoning**" – Stevenson, Angus; Lindberg, Christine A.



WHAT ARE DATA SPACE DESIGN PRINCIPLES?

- Set of guidelines
- Helps data space initiatives making informed design decision
- Focuses on core values essential for the success of data spaces
- Built upon the expertise of data space professionals

Conceptualization

"Principles can make values explicit, transforming them into rules and standards that guide behaviour

and decision-making."

WHY DESIGN PRINCIPLES?

DATA SPACES

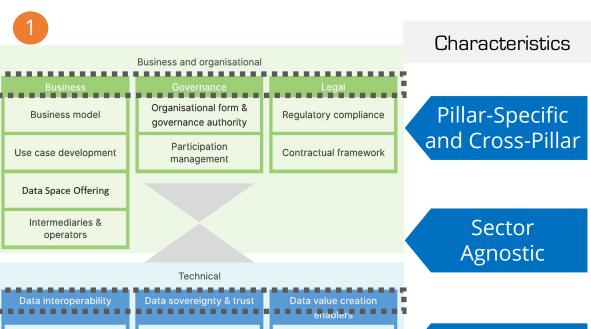
- Ensure that design choices are consistent and aligned with strategic objectives of data spaces
- Mitigate the risks of unexpected behavior at runtime
- Ensure that functional and non-functional requirements are adopted





The Development of Data Space Design Principles





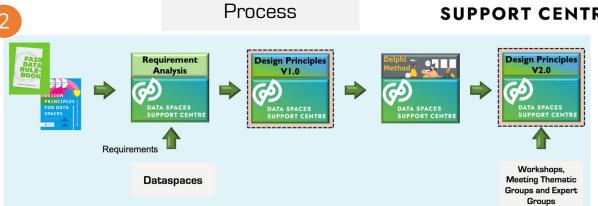
Data, services &

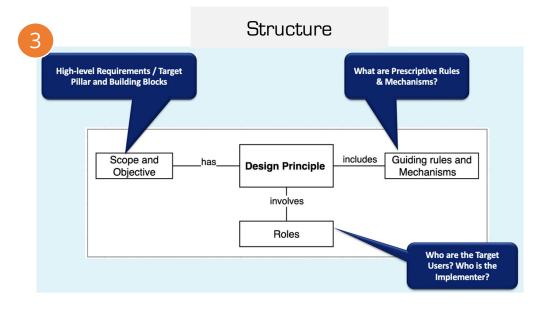
offering descriptions

Publication & discovery

Value creation services

Technology Agnostic







Data models

Data exchange

Provenance &

traceability

Identity & attestation

management

Trust framework

Access & usage

policies enforcement

The DSSC Design Principles for Data Spaces



DSSC's 13 Design Principles			
S#	Design Principles	Category	
1	Reusability of Data	Pillar – Specific Design Principles	
2	Pursuit Quality by Design		
3	Adaptable Data Space Governance Framework		
4	Establish a fit-for-purpose Contractual Framework		
5	Ensure Data Interoperability in Data Spaces		
1	Incentives and Synergies between Data Space Participants	Cross-pillar Design Principles	
2	Ensure Compliance with EU Legal Framework and Norms		
3	Discoverability, Availability, and Accessibility of Data		
4	Transparency		
5	Establishing Trust and Security in Data spaces		
6	Ensure Participants Rights in Data Sovereignty		
7	Promote Participation through Inclusivity		
8	Promote Environmental Sustainability		





Curious to know more?



Design Principles Interim Report

Web Link: https://dssc.eu/space/DDP/117211137/DSSC+Delivery+Plan+-+Summary+of+assets+publication



Interim Report

Data Space Design Principles



Design Principles Blog

Read our blogpost: https://dssc.eu/space/News

Design Principles for Building Interoperable and Trusted Data Spaces

Last updated 9 January, 2025



Ask your Question About Design Principles

Help Center / DSSC Support	
OSSC Support	
Welcome! You can raise a request among the following options.	
What can we help you with?	
Get Support Looking for practical support while setting up your data space project?	v

The Design Principles

Designing and delivering the European single market for data

Testimonial

Data Spaces Symposium 2025



Valentine Charles
Europeana
Foundation









The Co-creation Method

Designing and delivering the Common European Data Spaces

Data Spaces Symposium 2025



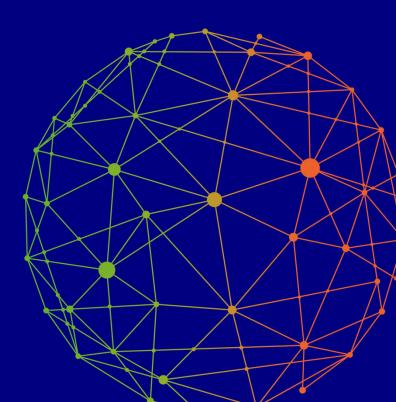
Jelte Bootsma, TNO





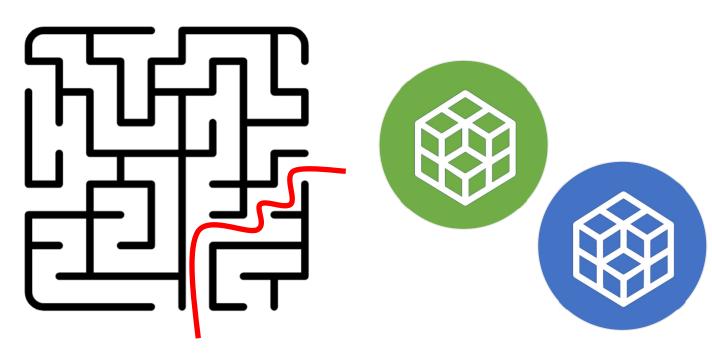






Why a Co-Creation Method?





A guide through the blueprint, to make choices about the setup of the data space! ¢Ι′ΩςΨŜửΙ ΰŘ Ι-ΚΏΩσ ΥΌΔΙ ửΙ Ŝ ŘI-Úqul-ŎŚlσΨΙ-ÚΠΟΦΘ ΘЭΛΟΘΟ° ΰΩΡЭ ỬΙ Ŝ ΩŜŎŚασΙ-Φ-ΘΛΙΡΚΌΟ° ΘΡΌΘΞΟΥ



Faster creating data spaces



Contents of Co-creation Method 2.0 (9)



DATA SPACES SUPPORT CENTRE **Links to Building Blocks**

Life cycle stages

Data Space Development Processes

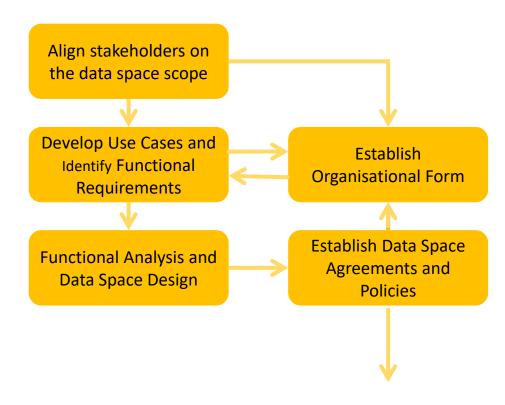
Exploratory

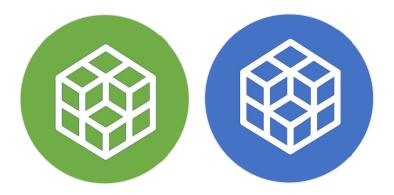
Preparatory

Implementation

Operational

Scaling





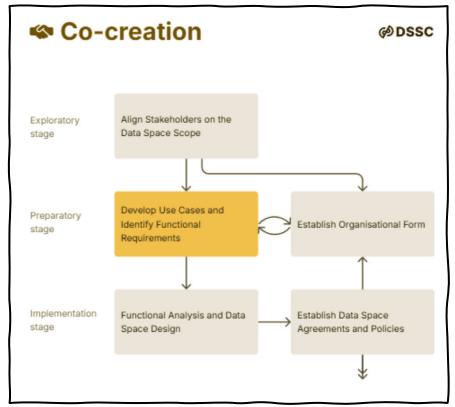
The development processes are:

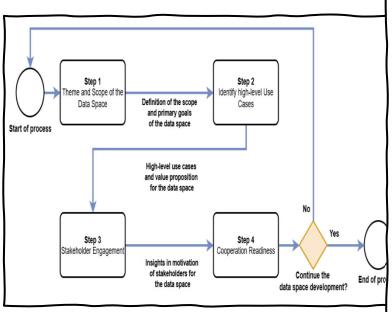
- are **connected** to both the green and the blue building blocks;
- provide the **order** in which building blocks should be used;
- help explain the relationships between the building blocks.

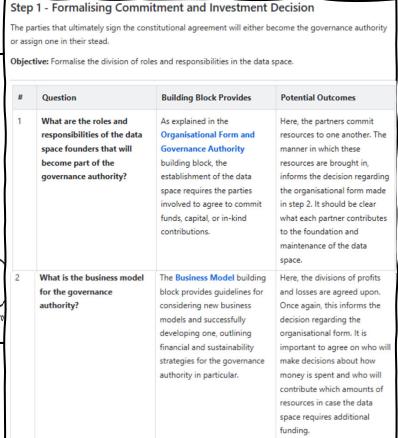
What are highlights in v2.0?

DATA SPACES
SUPPORT CENTRE

- 1. A new start page and overview in relation to the DSSC toolbox.
- 2. Multiple steps per process!
- 3. Each step comprises several questions that relate to the building blocks and potential outcomes









Co-creation method **Testimonial**

Data Spaces Symposium 2025



Manlio Bacco | JRC, EC

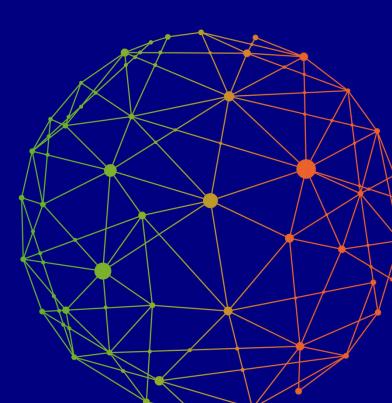












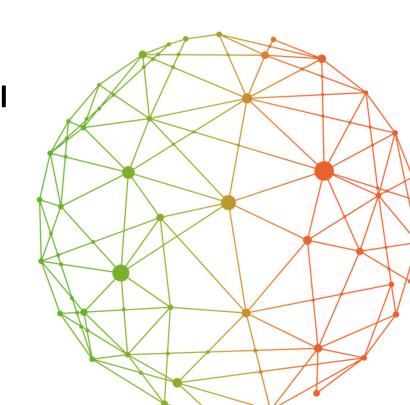
Co-Creation Method at JRC, EC



The **Joint Research Centre** (JRC) is the European Commission's science and knowledge service. JRC scientists carry out research to provide independent scientific advice and support to EU policy.

In the activities of the ENABLED project (in Directorate JRC.T - Digital Transformation and Data), we prioritise an **experimental approach** (social and technical) **in a Data sharing innovation lab**.

As part of the Strategic Stakeholder Forum of the DSSC, we invited DSSC experts, internal and external colleagues from research and policy, to a **role play experience**.



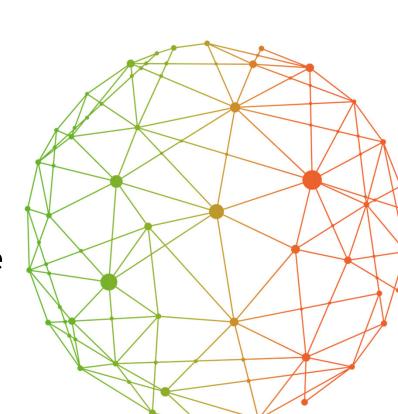
Use of wearable data in the EHDS

Role Play organised by the DSSC and hosted at the Joint Research Centre, EC, in Ispra (IT) on September 27th, 2024

DSSC Organisers
Gianfranco Cecconi, IDSA
David Regeczi, TNO
Olga Batura, TNO
Geert Lamerichs, TNO

8 actors: JRC colleagues, external experts

roles: ministries of health, private insurances, data service providers, health operators association, consumers association, wearable manufactures association



Use of wearable data in the EHDS

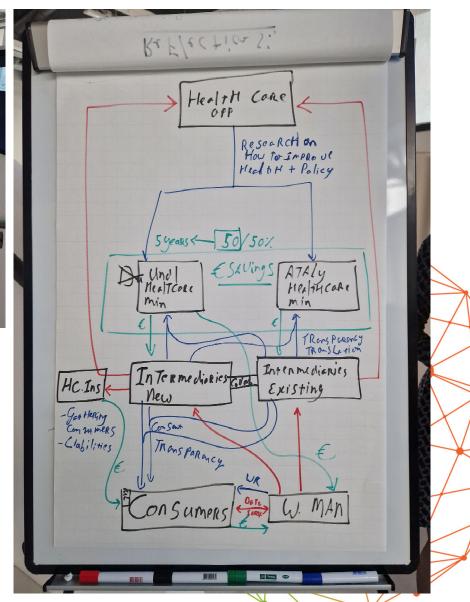






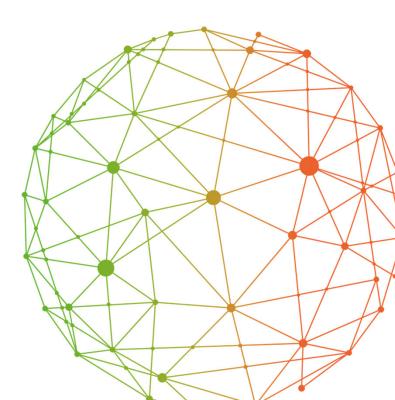


several colleagues
participated; different
expertise at the table; clear
understanding of the
problem mimicking
challenges and opportunities
of the data economy



Next steps

- The data sharing innovation lab will serve as proof of concept to showcase the benefits and complexities of developing data spaces and to promote wider datasharing at the JRC and beyond
- Experiment with SIMPL, the secure middleware platform for data spaces supporting data access and interoperability in European data initiatives
- Develop and test AI-based solutions to generate AI-ready data so to foster the data market

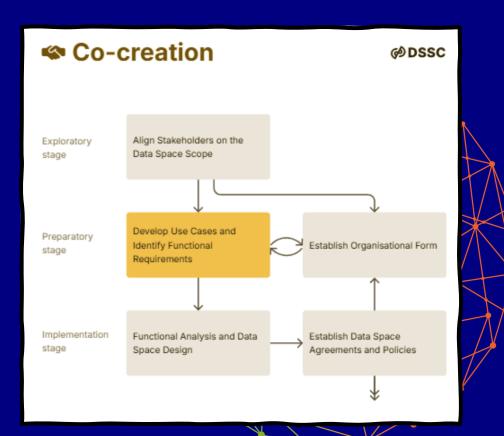


Thank you!

Any questions please reach out: jelte.bootsma@tno.nl

Connect, use and contribute

Use the DSSC Cocreation Method to develop or enhance the rulebook of your own dataspace



Our Support

Designing and delivering the European single market for data

Mariano Blaya-Andreu, IDSA

Data Spaces Symposium 2025

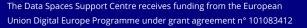












What support means for DSSC

Online/Offline

- Website and email - reactive
- Relationship managers direct engagement

Logistics

Network of Stakeholders Newsletter Point me to a speaker

Support to our assets and services

At the threshold of consultancy

5%

Total: 2400 tickets

Average: 66 hours

30%

What is consultancy is what is support

The **line** between consultancy and support is thin and blurring.

The **support** is related related to our assets. Example: we would like to know about interdataspace governance.

We consider it consultancy when a request is specific. Example: we would like to build *this* dataspace.

Testimonials from the audience



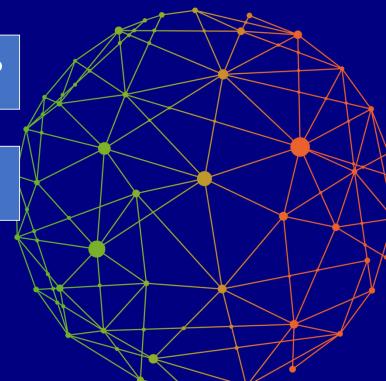
Those of you who used DSSC online support channels

High-medium level of satisfaction?

Low level of satisfaction?

contact@dssc.eu

dssc.eu > support



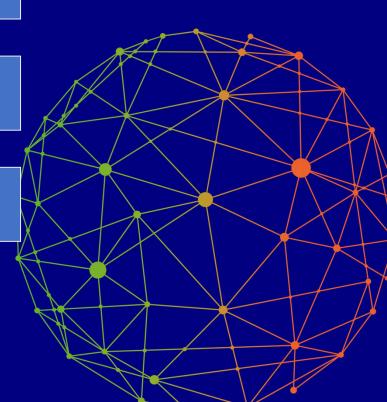
Testimonials from the audience



Those of you running data spaces projects

Who finds very useful the support provided by DSSC?

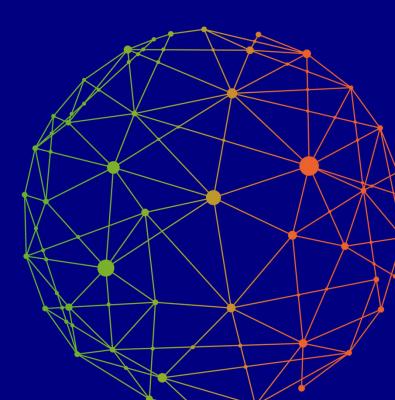
Who sees significant room for improvement?



Thanks!

- Find me
 - at the DSSC booth
 - contact@dssc.eu
 - DSSC.eu > support





Standardization

Designing and delivering the European single market for data

Data Spaces Symposium 2025



Clara Pezuela FIWARE

Testimonial



Coen Janssen EC



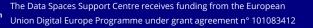


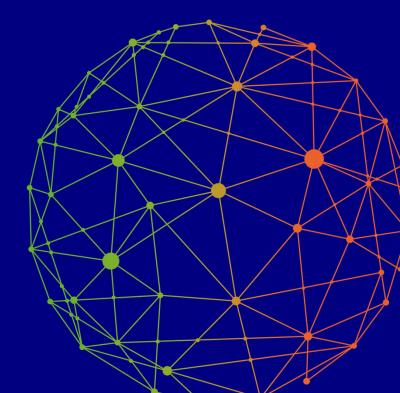




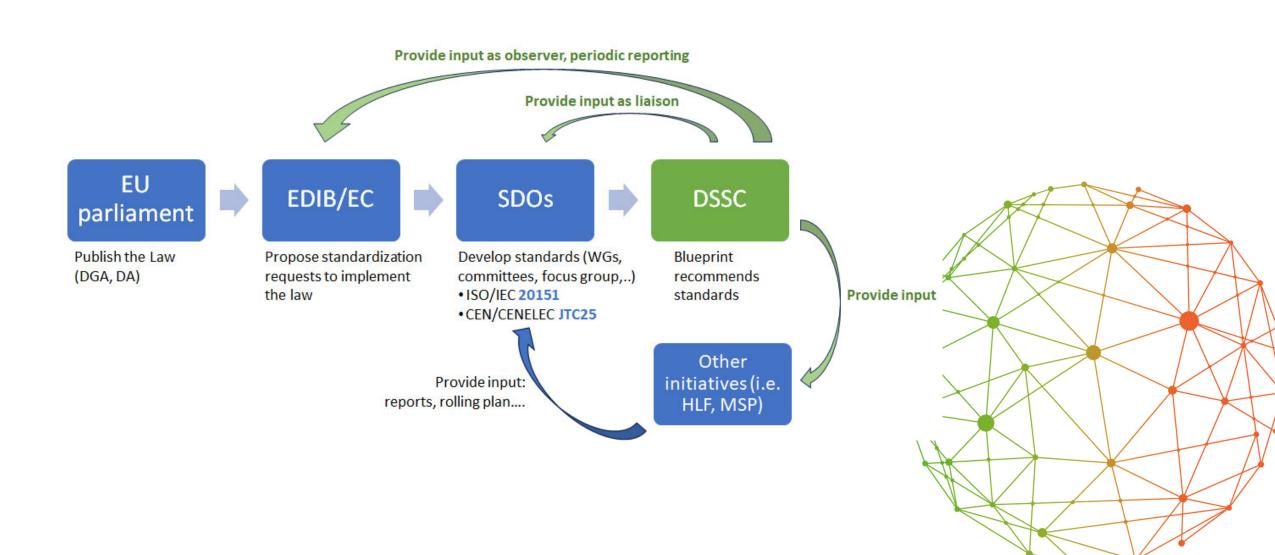








Role of DSSC in standardization landscape



DSSC activities in standardization

