European data spaces for public administrations and the role of data.europa.eu
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Introduction

Gianfranco Cecconi
Capgemini Invent

Maria Rosaria Coduti
Directorate-General for Communications Networks, Content and Technology (DG CNECT)

Marc-Christopher Schmidt
Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW)

Marta Pont Guixa
Data Spaces Support Centre
The concept of data spaces, differences with data portals, policy landscape and requirements of data spaces

Maria Rosaria Coduti
The common European data spaces: harnessing data to benefit the society, the planet and the economy

data.europa.eu webinar, 7 June 2023

Maria Rosaria CODUTI

European Commission, DG CNECT – Data policy and innovation
Creating a single European market for data

European Data Strategy
- Published Feb 2020
- Genuine internal data market
- Built on EU values and rules

A cross-sectoral legislative framework
- Data Governance Act – July 2022
- Data Act – Proposal Feb 2022
- Implementing Act on High-value datasets (Open Data Directive) – December 2022

Common European data spaces
- Staff Working Document – Feb 2022
  Overview development data spaces, at request European Council
  ✓ Horizontal aspects (concept, legislation, EU programmes/funding)
  ✓ Sectoral/domain-specific initiatives
Data Governance Act

Leveraging the potential of data for the economy and society

Pillar 1: Re-use of sensitive data held by public sector bodies

Pillar 2: Framework for trusted data intermediaries in the Single Market

Pillar 3: Corporate and Individual data altruism for purposes of general interest

Pillar 4: Co-ordination and interoperability: European Data Innovation Board

Horizontal framework for the creation of a single market for data
Data Act: Scope of rights and obligations

Better access to IoT data

**Manufacturers of IoT objects** need to allow access & can use the data

**Users of IoT objects** get right to access and port data

**3rd parties** can use the data to offer services (SMEs get special conditions)

*Rules for IoT data also frame data sharing in other sectors*

Tackle contractual unfairness

Make business data available for the common good

Easier switching between cloud services

Facilitate data flows through technical standards and interoperability

The European Commission may adopt technical specifications if necessary to ensure interoperability
Technical infrastructure for data spaces

Data Spaces Support Centre (dssc.eu)

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

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

$\text{Technical infrastructure for data spaces}$

- Edge & cloud Services
- Smart Middleware solutions (Simpl)
- Marketplace
- High-Performance Computing
- AI on demand platform
- AI Testing and Experimentation Facilities
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.
Role EC in supporting the creation of data spaces

- Work with stakeholders
- Data Governance Act
- European Data Innovation Board (EDIB)
- Data Act
- Funding
- Offer a technical solution
Offer a technical solution – Simpl Smart Middleware

Simple deployment, easy to use and extend

Build security, trust, confidence and compliance with regulations into the system.

Allow to monitor its environmental performance and add new users without affecting performance.

Simple

Interconnection and interoperability

Ensure that data sets and their infrastructures can be seamlessly interconnected and made interoperable.

Allow for insights into all parts of the architecture (without any proprietary claims)

Simpl will enable cloud-to-edge federations and support the common European data spaces

Smart and modular

Allow the replacement or addition of components without affecting the rest of the system.

Open source

Green, scalable and elastic

Allow for insights into all parts of the architecture (without any proprietary claims)
### OVERALL MISSION

- Create a **network of stakeholders** and **community of practice**
- Provide tools to address **organisational and technical matters** required for every data space
- This includes a **blueprint, building blocks**, best practices, common standards, reference implementations and identification of **data governance models**
- Provide **support** and enable data spaces to focus on their domain-specific business challenges
- Enable data spaces to reach a higher flight level faster: **quick start** and an **accelerated scale-up**

### SPECIAL FOCUS ON INTEROPERABILITY

- Ensure that participants of one data space can also **participate in other** European data spaces
- Can only be achieved if data spaces conform to certain **standards**, which will be part of the DSSC blueprint

### GENERAL

- Create **economies of scale** and **synergies** on a European level for the development of common European data spaces
Common European data space actors

Data Spaces Support Centre (DSSC)
- 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)
- for sectoral/domain-specific data spaces
- community of practice, priority datasets, stakeholder engagement, governance/business models, roadmap
- funded by the DIGITAL Europe Programme

European Data Innovation Board (EDIB)
- Consultative and advisory body established by the Data Governance Act, to be set up in September 2023
- guidelines for interoperability of common European data spaces
Thank you for your attention
The state of play of the public procurement data space (PPDS)

Marc-Christopher Schmidt
Public Procurement Data Space (PPDS)

European data spaces for public administrations and the role of data.europa.eu

June 2023
Every year in the EU, over 250 000 public authorities spend around **EUR 2 trillion** (around 13.6 % of GDP) on the purchase of services, works and supplies…
…However, data from only 20 % of all procurement procedures by public buyers are available and searchable for analysis in one place.

The remaining 80 % are spread, in different formats, at national or regional level and difficult or impossible to re-use for policy, transparency and better spending purposes.
The project success will be marked by the implementation and escalation of the PPDS. The long-term objective is that the PPDS becomes the ‘de facto’ data access point for all procurement data in the EU. Achieving an optimal development of PPDS will depend to a large extent on the participation and collaboration of stakeholders.

**PPDS Impact**

- **Policy makers**
  - Use of the PPDS to analyse the functioning of the public procurement market and produce evidence-based policy-making in the area of procurement

- **Companies**
  - Have an easy-to-use portal that gives them access to a much greater number of procurement information with better data quality

- **NGO/Academia/Journalists**
  - Use the PPDS data for research and investigation purposes

- **Public buyers**
  - Acquire the most comprehensive knowledge base of procurement all around Europe (and beyond)

- **Service providers**
  - Use of the PPDS to create value based on the public procurement data

- **Citizens**
  - Benefit from increased transparency on public spending from public administrations

[Diagram showing the impact of PPDS on different stakeholders]
Roadmap

2023
• Connect Tenders Electronic Daily (TED)
• Process basic indicators

2024
• Support interested MS to connect to PPDS
• Further develop analytics toolset/ Implement quality dashboard
• Integrate historical data

2025 and beyond
• Link PPDS with other existing data sources at EU level
• Link PPDS with other data from the procurement life cycle
High-level Architecture

The Public Procurement Data Space will allow the interactivity of different types of users who will act as providers or consumers of data. The PPDS architecture will envisage these interdependencies, providing a single-access point to public procurement data for every user.

data.europa.eu would be a data user of the PPDS
The PPDS initiative has been formalised through a Communication from the Commission that depicts the way forward, including an identification of use cases, relevant stakeholders and a roadmap of actions.

Link to the communication
Thank you.

Contact us

EC-PPDS@ec.europa.eu
Data Spaces Support Centre and EU-funded data spaces

Marta Pont Guixa
DSSC and the EU-funded data spaces

June 2023 – Marta Pont Guixa
Content

1/ Project context
2/ Goals and areas of work
3/ Target stakeholders
4/ Main assets developed
Create a Support Centre to **operationalise the European Strategy for Data** by fostering and coordinating the development of common data spaces through the definition of requirements, technologies, processes, standards and tools assuring interoperability and allowing the reuse of data across sectors.

**European Commission, DG CONNECT (Unit G1 – Data Policy and Innovation)**

Funded under Digital Europe Programme: EUR 14 million

42 months (Oct 2022 – March 2026)

12 project partners
(RTOs, data-focused associations & businesses)

**European Strategy for Data (2020):** “The Commission intends to fund the establishment of **EU-wide common, interoperable data spaces** in strategic sectors. Such spaces aim at overcoming legal and technical barriers to data sharing across organizations[1]”

“An infrastructure enabling data transactions between different data ecosystem parties based on the governance framework of that data space. A data space should be generic enough to support the implementation of multiple use cases” (DSSC Starter Kit)

**Underlying Strategy**

**Data spaces...?**

**EU-funded data spaces**
(mostly through DIGITAL)

- Public administration
- Finance
- Health
- Smart communities
- Cultural heritage
- Skills
- Tourism
- Language
- Agriculture
- Green Deal
- Industrial & Manufacturing
- Energy
- Mobility
- Education
The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412.

**Data Spaces Support Centre Goals**

- **Closely work with CSAs and projects funded under DIGITAL**
  - Support the creation of a community of practice in the field of data sharing, with a focus on EU-funded initiatives

- **Create a network of stakeholders**

- **Identify the common requirements**

- **Support the work of the envisaged European Data Innovation Board**
  - Define guiding design principles, identify standards, building blocks, open sources technologies, business models, identify and address barriers, etc. for the creation of data spaces

- **Create a platform for knowledge exchange**

- **Support the deployment of data spaces**
  - Offer and promote the use of common architecture, test, approve and make available solutions, publish good practices, give access to model contract clauses, provide advice, etc.
**DS initiatives engaged – CoP as primary target**

Who? Group of people and organisations working together to develop and implement data space initiatives in various sectors, central to the co-creation of DSSC assets.

How many? 17 engaged initiatives in 11 sectors, including preparatory and deployment actions funded by DIGITAL & H2020

Activities
- Monthly community meetings
- Co-creation workshops and meetings (*inventories, legal and governance, glossary, business models …*)
- Regular interaction with DSSC’s Relationship Managers

In the future
- **Growth**: Expanding the community with additional data spaces initiatives and building block implementers (e.g. SIMPL)
- **Collaboration**: More co-creation and sensemaking activities
- **Visibility**: Mapping initiatives in the DSSC Radar
Collaboration with other EU initiatives

- 70 engaged Initiatives
- 17 Workshops
- 3 surveys conducted

Growth: Standardisation Bodies and Organisations, National initiatives, Policy makers, International initiatives, Hubs, continue enlarging the network...

Collaboration: Engagement and alignment
# Main assets being developed

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<th>Purpose and description</th>
<th>Timeline</th>
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<td>DSSC glossary</td>
<td>Support smooth information sharing and co-development between the different data space initiatives and people involved in DSSC through a common vocabulary and concepts.</td>
<td>First release in March 2023 (regular updates)</td>
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<td>Starter kit</td>
<td>Entry point to assist individuals or organisations who want to establish or take part in a data space, in understanding the requirements for creating a data space and providing access to a resource inventory for guidance and support.</td>
<td>First release in March 2023 (regular updates)</td>
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<tr>
<td>Standards and technology landscape</td>
<td>Mapping of available standards and technologies suitable to implement the identified building blocks, co-created with CoP, thematic groups and expert groups.</td>
<td>Publication on DSSC website by end September</td>
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<td>Catalogue of building blocks</td>
<td>Collection existing components (1- business, governance &amp; legal and 2- technical) &amp; creation of new ones to support the functionality of a data space.</td>
<td>September 2023</td>
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<td>Data Spaces Blueprint</td>
<td>Comprehensive set of guidelines to support the implementation, deployment and maintenance of DS. It will contain: conceptual model of DS, building blocks and recommended selection of standards and specifications.</td>
<td>Public consultation in August, first version 0.5 in September</td>
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<td>Maturity Model &amp; Data Spaces Radar</td>
<td>Tools to measure and give visibility to the technical, functional, operational, business and legal capabilities of data spaces.</td>
<td>Fall 2023</td>
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<td>Evaluation of data space initiatives</td>
<td>Yearly appraisal of the socioeconomic benefits/outcomes yielded by EU-funded data space initiatives with the purpose of informing the EC on use of public funding, provide DS on insights and foster peer learning.</td>
<td>Release of ex-ante report by mid-June 2023</td>
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<td>Data Spaces Support Platform</td>
<td>Web-based platform to host, grow and curate discussions related to data spaces and providing access to a knowledge base including project assets.</td>
<td>Released in March 2023, publication of knowledge base in September</td>
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Thank you
Panel discussion

Place your questions in the chat!
Stay up-to-date on our 2023 activities!
Join our next webinar!

WEBINAR

Stories of use cases: Open data to make Europe fit for the digital age

30 June 2023
10.00 — 11.30 CET
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