EU-Manufacturing Data Spaces Update

Brokering event DEP Data for EU
DSBA
16. Dezember 2021

Matthias Kuom
“My ambition is that European data will be used for European companies in priority, for us to create value in Europe”

The aim is to make Europe “the most data-empowered continent in the world”

Thierry Breton, Commissioner for the Internal Market
What is a data space?

Data spaces

- Data generation
- Data correlation
- Data services

Data

Platforms

Services

Business

Education · Mobility · Industry 4.0 · Healthcare ...

Things

Cars · Machines · Smart Phones · Cameras ...

Data services

Data correlation

Data generation
**Artificial intelligence, data and cloud**

### Data Spaces

- **Green Deal**
  - CSA – 100% 2 mln €
  - 12-18 months

- **Smart communities**
  - CSA – 100% 1 mln €
  - 12 months

- **Mobility**
  - CSA – 100% 1 mln €
  - 12 months

- **Manufacturing**
  - CSA – 100% 1 mln €
  - 12-24 months

- **Agriculture**
  - CSA – 100% 2 mln €
  - 18 months

- **Skills**
  - CSA – 100% 1 mln €
  - 12 months

- **Tourism**
  - CSA – 100% 1 mln €
  - 12 months

- **Health - Genomics**
  - Simple grants – 50%
  - 20 mln € 36-48 months

### First call

<table>
<thead>
<tr>
<th>Data Spaces Support Centre</th>
<th>CSA – 100% 14 mln €</th>
<th>36-42 months</th>
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</thead>
<tbody>
<tr>
<td>Call opening:</td>
<td>17 November 2021</td>
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<tr>
<td>Deadline for submission:</td>
<td>22 February 2022 – 17:00:00 CET (Brussels)</td>
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<td>Evaluation:</td>
<td>14 March to 29 April 2022</td>
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<td>Information on evaluation results:</td>
<td>End of May 2022</td>
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<td>GA signature:</td>
<td>September 2022</td>
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Leveraging the momentum

Converging guidelines worldwide

Ongoing data spaces initiatives across Europe
EC workshops on Manufacturing Data Spaces

**2020**

- **10.02.2021** [Workshop on initial ecosystems](#)
- **06.05.2020** [Common European data spaces for Smart Manufacturing](#)
- **29.07.2020** [Manufacturing data spaces - predictive maintenance](#)
- **23.11.2020** [Data Spaces for Manufacturing - current state of play](#)

**2021**

- **16.03.2021** [What role standards play with regard to data sharing](#)
- **10.05.2021** [Manufacturing Data Spaces and their relation to GAIA-X](#)
- **28.10.2021** [The way forward – How to prepare for Manufacturing Data Spaces](#)
- **22.11.2021** [Manufacturing Data Spaces info day upcoming calls](#)
Co-ordination and Support Action (CSA)

Preparatory action
• To develop multi-stakeholder data governance scheme, sustainable business models, inventory of existing data platforms, agreed set of priority datasets and data themes.

Call dates: First call: Open, Closed: 22 Feb 2022, Evaluation: Q2 2022, Contracts signed: Q3 2022
Budget: EUR 1 million
Funding rate: 100% eligible costs
Duration of action: 12 – 24 months

Deployment – Simple Grants

Two projects to deploy two data spaces for the manufacturing industry at scale for:
• Supply chain operations
• Maintenance operations / Asset management.

Call dates: Third call: Open: Q3 2022, Closed: Q4 2022, Evaluation: Q1 2023, Contracts signed: Q3 2023
Budget: EUR 16 million
Funding rate: 50% co-funding rate (75% for SMEs)
Duration of action: 24 months
coordination of stakeholders & support the deployment

1. Develop a multi-stakeholder data governance scheme, jointly agree on the data interoperability requirements and interfaces, and data federation models.

2. Delivering sustainable business models for the data spaces, which incentivise data sharing and reuse

3. Inventory of existing data platforms for manufacturing and a blueprint for manufacturing-specific building blocks

4. Agreed set of priority datasets and data themes, including real-time data, conform with the new blueprint standards and principles.
Objective of the deployment call

• Increase data sharing across manufacturing companies and with service providers

• Demonstrate how sharing industrial data improves company operations in
  • agile supply chain management and execution
  • dynamic asset management and predictive/prescriptive maintenance

• Enhance business opportunities for industrial data value added services by parties outside a production site

• Particularly SMEs will benefit from larger sets of industrial data to broaden their offers in terms of products and services

• Support the transition towards a circular economy
Timeline

• Call 1 – for preparatory action (CSA)
  • Open: 17 November – 22 February
  • Evaluation: 14 March to 29 April 2022
  • Information on evaluation results: End of May 2022
  • Signature of the grant agreements: September 2022
  • Project duration 12 – 24 months

• Call 2 –
• Call 3 – Deployment call
  • Open: Q3 2022 – Q4 2022
  • Evaluation Q1 2023
  • Information on evaluation results: Q2 2023
  • Signature of the grant agreements: Q3 2023
  • Project duration 24 months
Data governance scheme & data federation models

Outcome 1: Governance Scheme

- Practical Manufacturing Data Spaces Governance Scheme
  - Jointly agreed
  - Accession & Roles
  - Rules & Procedures
  - Soft infrastructure (functional and non-functional requirements regarding interoperability, portability, findability, security, privacy, and trustworthiness)
  - Templates and tools that enable federation & scaling up
sustainable business models that incentivise data sharing and reuse

From use cases to business models

- Methods to estimate the value of data shared
- Non-financial incentive mechanisms
- Business models for intermediation services
- Quality assessment methods
- Agreement mechanisms (e.g. Smart contracts for value sharing) that enable to share the benefits
outcome 3: Inventory and a blueprint

Inventory of existing data platforms & manufacturing-specific building blocks

Analysis of examples (incl. maturity) to identify commonalities and key features

• Open source components
• Methods to estimate the value of data shared
• Use of intermediation services
• Templates and tools that enable to share the benefits, develop a blueprint; and act as a transition guide
Bring an agreed set of datasets and data themes, including real-time data, into line with the new standards and principles of the blueprint.

- Analysis of available datasets
- Prioritization
- Adapt to standards and principles identified in the blueprint

To create critical mass of initial data to share.
Keep in touch

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