



Manufacturing Data Spaces



DG CNECT
07. December 2022

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



Data Spaces for Manufacturing

- 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

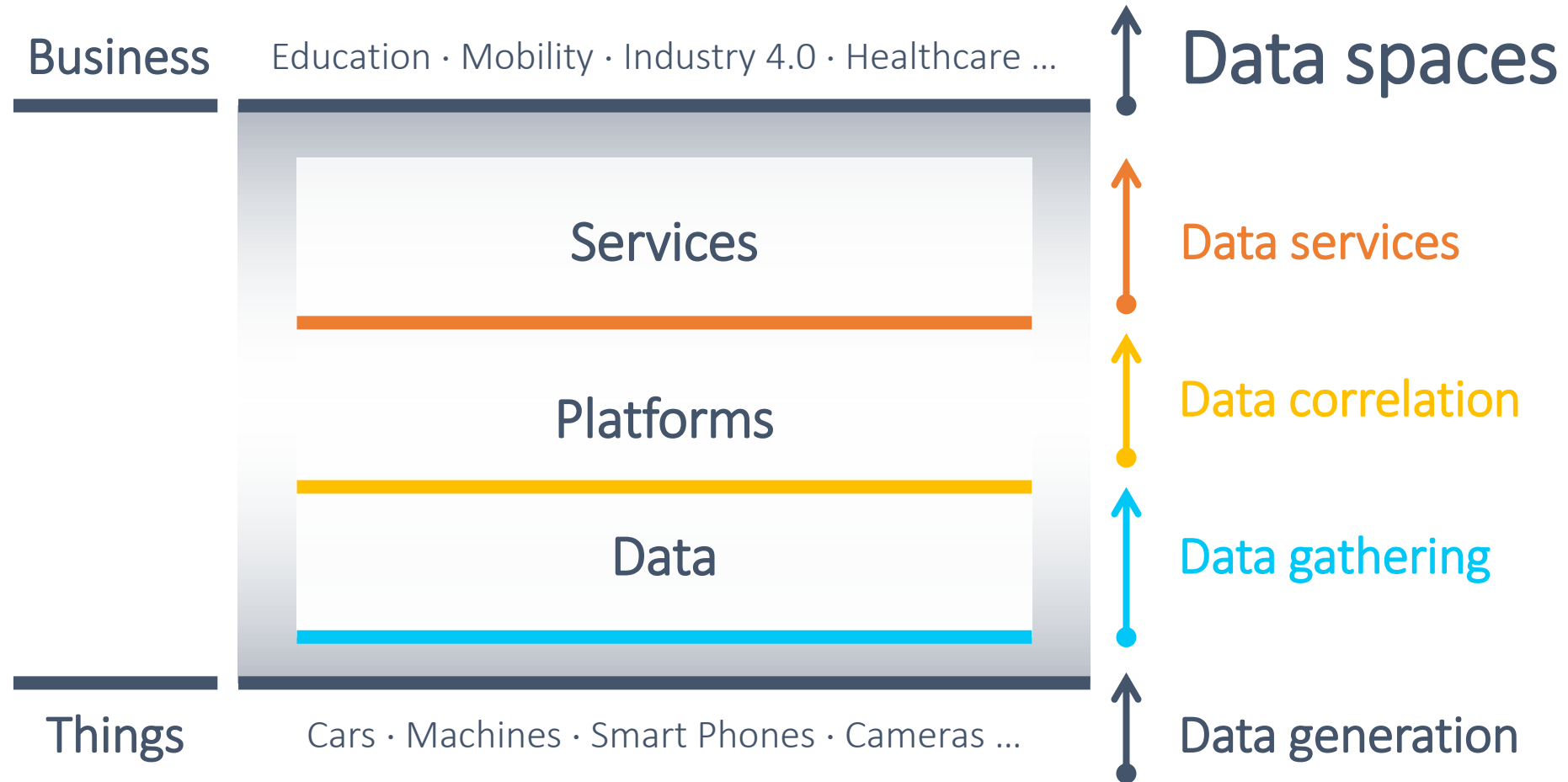


Data Spaces for Manufacturing

- 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
- Budget: 16 Mio. EUR EU funding, 50% funding rate (75% for SMEs)



What is a data space?





Data Spaces for Manufacturing

1

Agile supply chain management (+ supply chain execution)

2

Dynamic asset management and Predictive/Prescriptive maintenance

3

Data sharing for circularity, recycling, remanufacturing (horizontal)

Businesses have increased their focus on achieving a green recovery, and more broadly, environmental, social, and governance (ESG) targets. **86% of Eurozone CEOs think that ESG is an important value driver, even higher than revenue growth**

1 CSA selected to prepare Manufacturing Dataspaces:

DATA SPACE 4.0

Call for two MDS is open and closes on 24 Jan 2023
([DIGITAL-2022-CLOUD-AI-03](#))



DS for Manufacturing – topic evolution

- **Preparatory phase**

- Industry Agreements (study SMART 2018-0003)
- Call for Preparatory actions for data spaces for manufacturing 11/21

- **First implementation phase**

- Call for implementation projects Q3/2022
- Launch of manufacturing data space projects and TEF projects in manufacturing
- Minimum viable deployment of manufacturing data spaces for supply chain management and asset management and maintenance

- **Alignment**

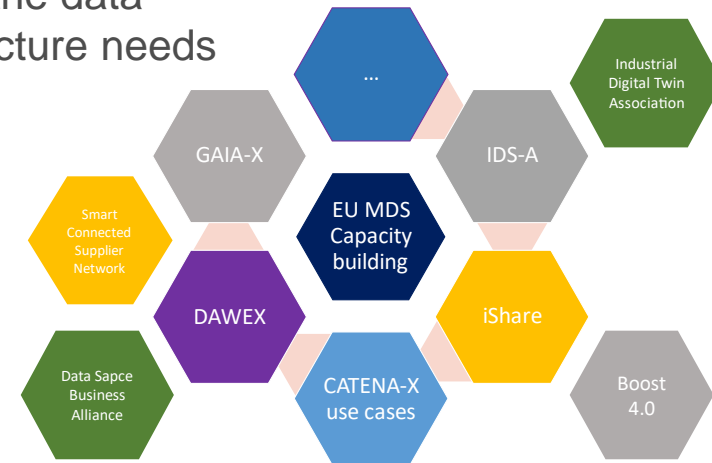
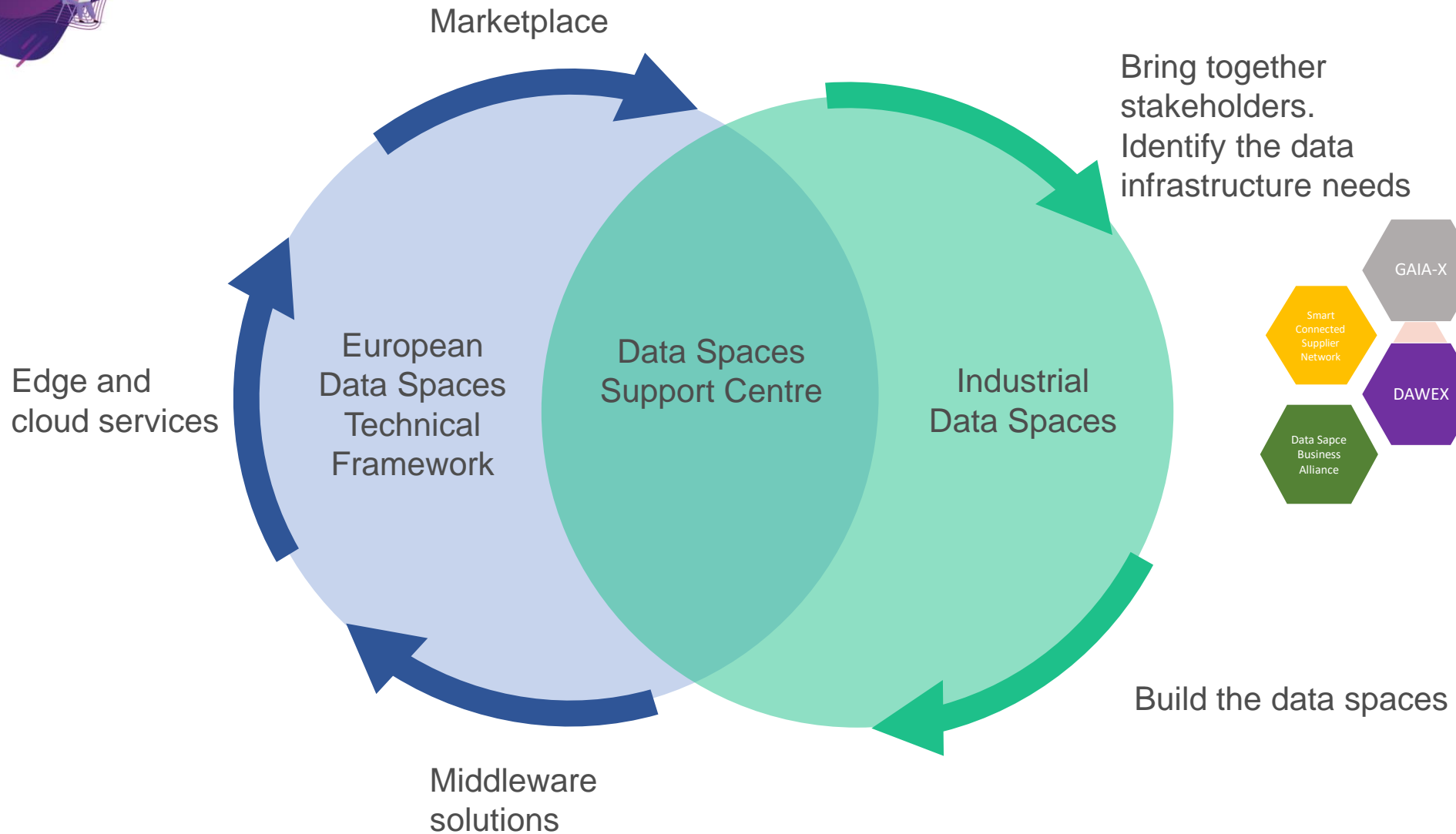
- Align the activities with the ongoing work on the Data Governance Act
- Align with Data Space Support Centre and the solutions available under the Common Services Platform

- **Next Work Programme**

- Integration
- Sustainability



Data Spaces deployment in DIGITAL





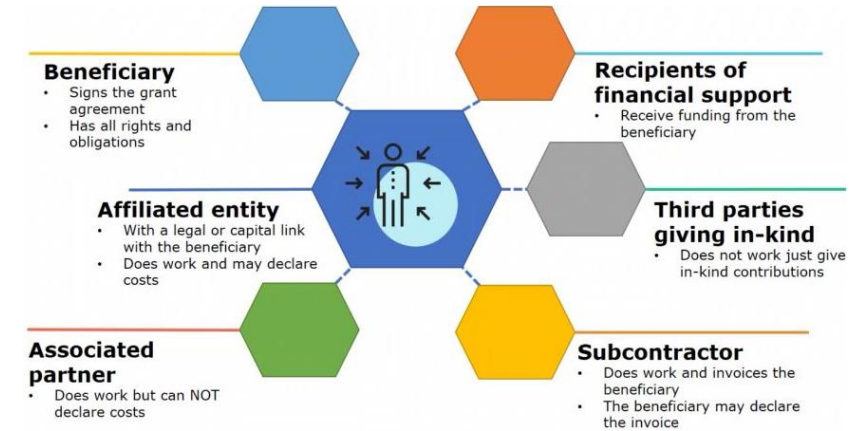
DS for Manufacturing – Key actors

Applicants must be legal entities established in EU Member States or [countries associated](#) to the Digital Europe Programme

Consortium of minimum 3 independent entities from 3 different eligible countries

Data spaces must be operated and coordinated by companies, an industrial association or a non-profit organization

- act as trustworthy data brokers and
- continue operations beyond the end of the action.





Who can participate?

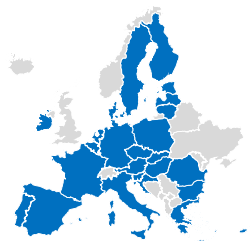
In order to be **eligible**, participants **must be**



legal entities (public or private body)

and

established in a **EU Member State** (including overseas territories)



legal entities established in the EU but **controlled from third countries** and legal entities established in Associated Countries **may participate if they comply with certain conditions** included in the Work Programme and certified by the MS/AC where they are established

Important for participants to submit the '**Declaration of Ownership Control**', unless they are public entities. Without the declarations, the proposals may be declared ineligible.



DS for Manufacturing – expected outcome

- Deploy two operational data spaces, continuing to be available after the end of the project
- Interact with large amounts of industry data across organisational borders of more than two stakeholders
- Offer a secure and trustworthy way of making data usable between supplier and user companies on the basis of voluntary agreements
- Agree on common rules for access to data and fair compensation
- Complete, deepen, expand data sharing in existing ‘embryonic’ data spaces, and enlarge with other organisations
- Gradually integrate into the common Data Space Technical Infrastructure



KPIs to measure 'Outcomes and deliverable'

- Number of relevant stakeholders involved/supporting the established governance scheme and detailed roadmap, including data providers and users, service providers, associations, intermediaries and governmental bodies
- Number of validation workshops and level of participation (in number, representability, individual level of decision making of the attendees) and degree of agreement to the proposals for the governance scheme and/or detailed roadmap.
- Number of technology and data space service providers offering middleware based on the solutions identified by the network/supporting the blueprint.
- Number of data providers offering data sets based on the standards and conditions identified by the network.



Horizontal aspects - Future Outlook



- Prepare industrial data agreement(s) on
 - Data related to design, reuse, recycling, and environmental impact of production processes and products
 - Indicators for continuous monitoring and exchange of data on product performance and reuse, material content and origin
 - Feedback to design, product recycling, product remanufacturing, etc.
- Prepare to effectively track and report resource use (e.g. CO₂). Actions should preferably target data sharing for circularity in key product value chains of the Circular Economy Action plan (COM(2020) 98 final).



Where is the information?

Funding and tender portal

Main entry point

Description of the call on the **Funding & tender opportunities portal** <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/digital-2022-cloud-ai-03-ds-manuf>

Work programme docs: [\(1\) Main](#), (2) Cybersecurity, (3) EDIH, (4) HPC

Comprehensive document – read this first

Call [DIGITAL-CLOUD-AI-03](#)

Specific for this call (budget, eligibility, award criteria, timing...)

General Model Grant Agreement for the Digital Europe programme

<https://europa.eu/!nxBvjj>

Annotated Model Grant Agreement

<https://europa.eu/!4KGHKX>

Contract, participants, administration, payments...

Regulation establishing the Digital Europe Programme

<https://europa.eu/!KYQMdB>

Background and legal basis



The pieces of the puzzle

Administrative forms (Part A)

[Edit forms](#) [View history](#) [Print preview](#) [?](#)

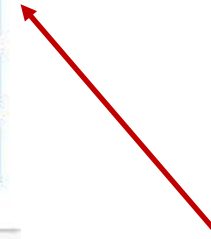
Part B and Annexes

In this section you may upload the technical annex of the proposal (in PDF format only) and any other requested attachments. [?](#)

Part B	<input type="text"/>	?	Upload
List of previous projects	<input type="text"/>	?	Upload
Ownership control declaration	<input type="text"/>	?	Upload
Ethics issues table	<input type="text"/>	?	Upload
Security issues table	<input type="text"/>	?	Upload
Other annexes	<input type="text"/>	?	Upload

Max 70 pages

Mandatory

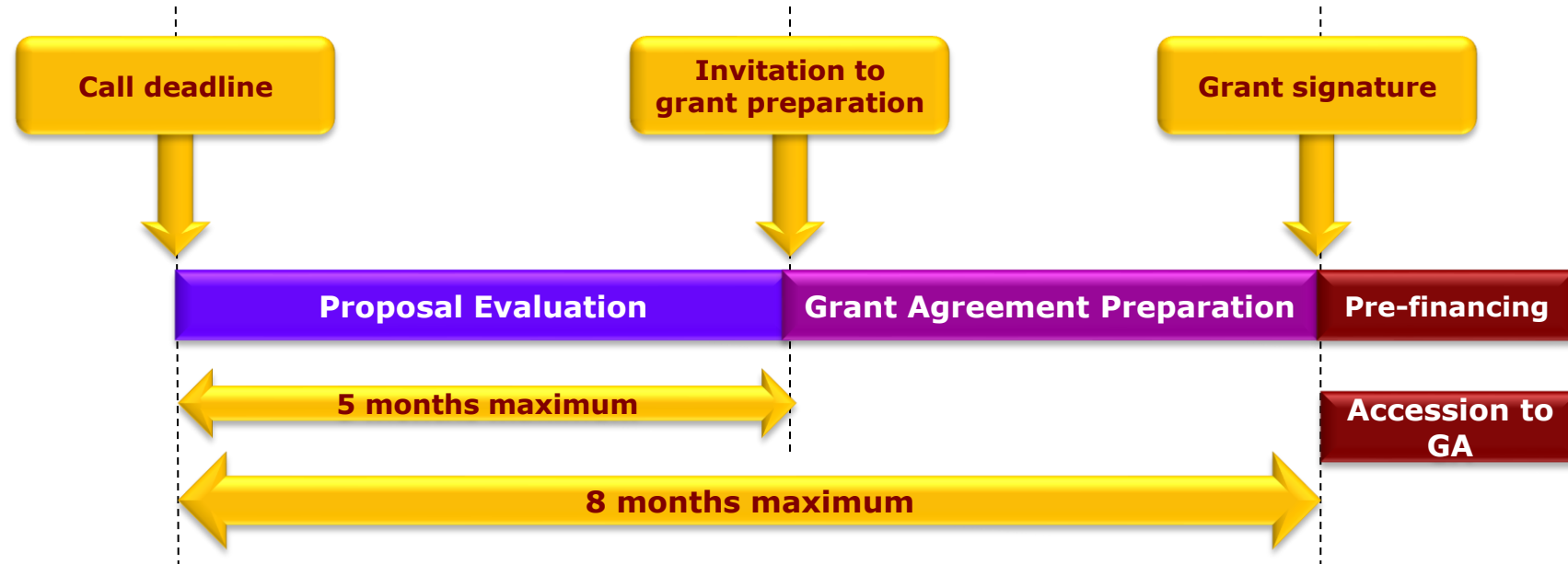


⚠ In case it is not possible to identify the potential risks related to the AI system/techniques at this stage, describe the procedure you intend to use to detect, assess and address potential ethics issues (or explain why such a procedure is not needed).

See “How to complete Ethics self-assessment”, chapter on Artificial Intelligence
<https://europa.eu/!4w6YWN>



From submission to implementation



- Maximum **five months** from call closure date - until the date of informing applicants about the outcome of proposal evaluation
- Maximum **eight months** from call closure - until the signature of the grant agreement



Questions?

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