

# DATA SPACE 4.0

## Webinar on Data Space in Manufacturing

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7 December 2022

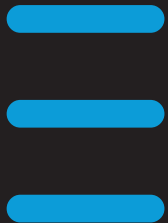
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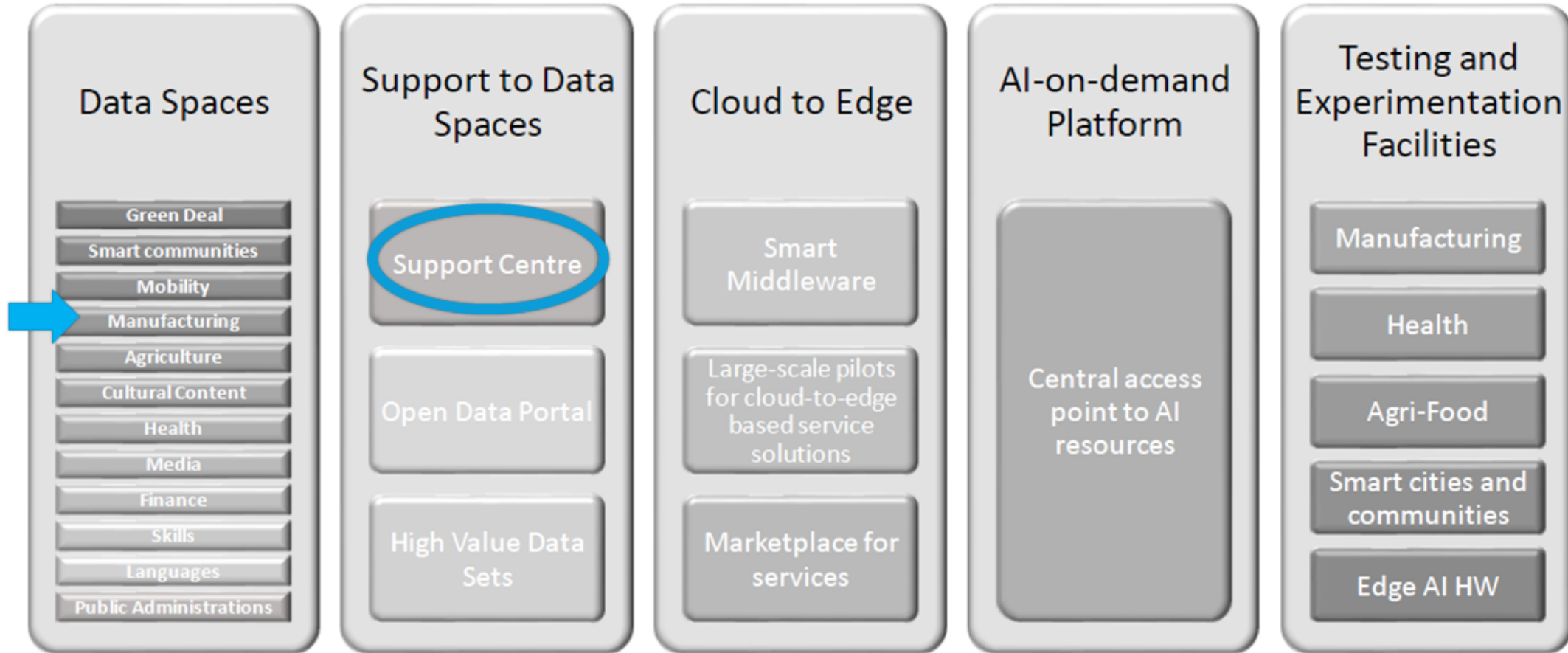
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01

# DATA SPACE 4.0 IN A NUTSHELL

# BACKGROUND



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**Project No:** 101083939

**Duration:** 15 Months

**Start Date:** 1<sup>st</sup> October 2022

**Partnership:** 13 Partners, 1 Associated Partner,  
30+ Global Collaboration Partners

**Strategic Objective:** DIGITAL-2021-CLOUD-AI-01-PREP-  
DS-MANUFACT

**Total Budget:** 999 665.69 €

**EC Contribution:** 999 665.69 €

**Project Website:** <https://manufacturingdataspace-csa.eu>

**Community Website:** <https://digitalfactoryalliance.eu>

The logo for Data Space 4.0, featuring the words "DATA" and "SPACE" stacked vertically in a bold, sans-serif font, with "4.0" to the right. The "4" is blue and the ".0" is black.

A **EU**ropean Common **D**igital  
**M**anufacturing Infras**T**tructure and **D**ata  
**S**pace **P**athway for Connected Factories **4.0**  
Data Value **C**hain Governanc**E**

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# CONNECT

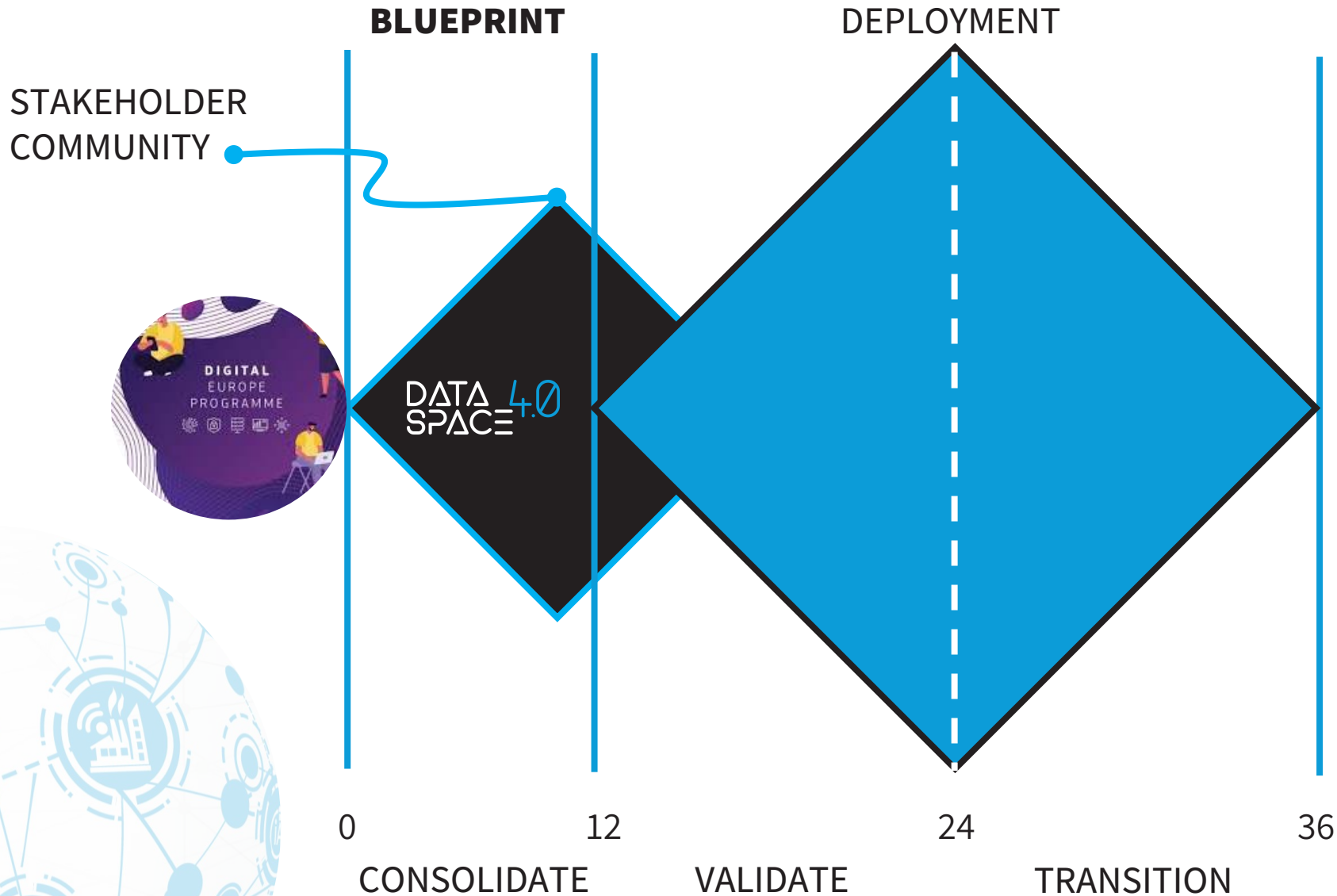
# DATA SPACE 4.0



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# MISSION

DATA SPACE 4.0



MADE IN EUROPE

CONNECTED FACTORIES

Autonomous Factory

EFFRA  
EUROPEAN FACTORIES OF THE FUTURE  
RESEARCH ASSOCIATION

<https://www.connectedfactories.eu/video/data-space-pathway-video>

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# CONNECT

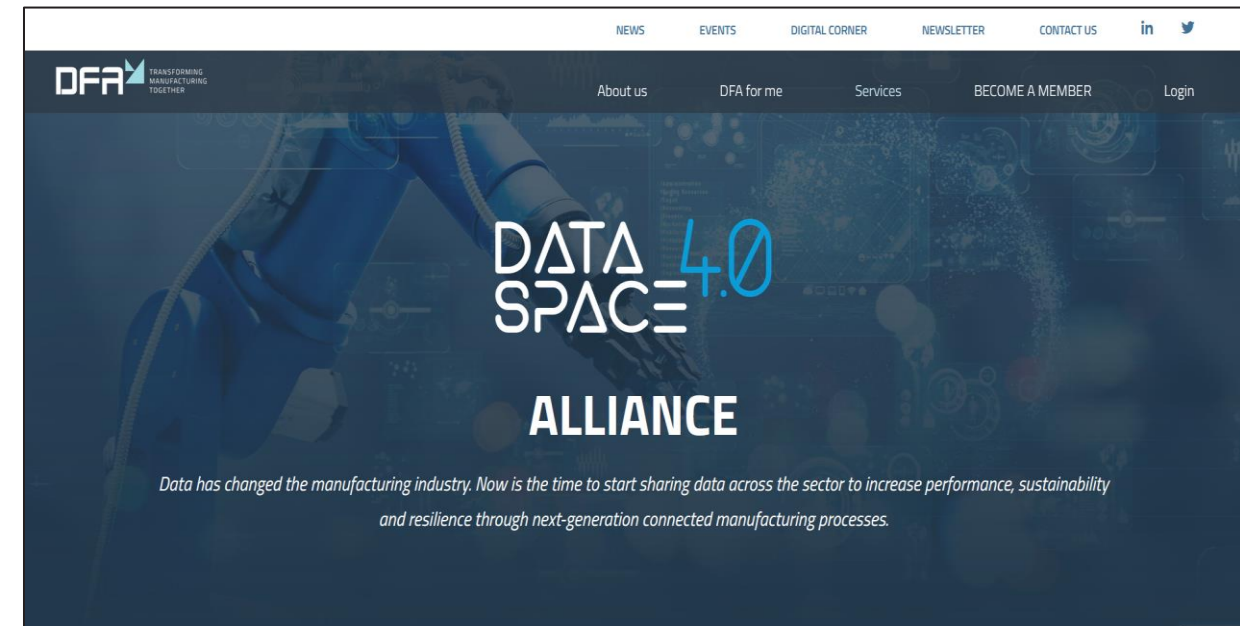


## Project Website



<https://manufacturingdataspace-csa.eu>

## Data Space for Manufacturing Community



<https://https://digitalfactoryalliance.eu/data-space-4-0-alliance/>

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# CONSORTIUM MEMBERS

DATA SPACE 4.0

**innovalia**  
ASSOCIATION

**VDI** PLATFORM  
**INDUSTRIE 4.0**

**cea**

Alliance  
INDUSTRIE  
DU FUTUR

**INDUSTRIE 4.0**  
ÖSTERREICH



Fondazione  
Politecnico  
di Milano

**Brainport**  
Industries

**smart**  
industry



INTERNATIONAL DATA  
SPACES ASSOCIATION

**FIWARE**  
FOUNDATION

**ENGINEERING**  
THE DIGITAL TRANSFORMATION COMPANY

UNPARALLEL

**IDC**

**SQS**  
SOFTWARE QUALITY SYSTEMS

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**DFA** TRANSFORMING  
MANUFACTURING  
TOGETHER

# ASSOCIATED & COLLABORATION PARTNERS

DATA SPACE 4.0

	 	 	 <small>EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION</small>  <small>European Association of the Machine Tool Industries and related Manufacturing Technologies</small>
  <small>DIGITAL BOOST FOR FINNISH INDUSTRY</small>	 	 	 
	 <small>Technology Centre of Catalonia</small> 	 	 <small>INTERNATIONAL DATA SPACE ASSOCIATION</small>  <small>European Federation of National Maintenance Societies vzw</small>
 	 <small>Industrial Digital Twin Association</small> 	 	 <small>POLO DE COMPETITIVIDADE DAS TECNOLOGIAS DE INFORMAÇÃO, COMUNICAÇÃO E ELECTRÓNICA</small>



**OPEN**

<https://digitalfactoryalliance.eu/contact-us/>

**CONTACT US**  
Do you have any questions about the Digital Factory Alliance?

Full name

Company

Email

Your question

Submit

# MISSION



Provide Access to a Set of Comprehensive Tools, Reference Best-practices and Assets To Support Manufacturing Industry To Share Data Securely, Cost-Effectively and With Full Sovereignty



Maintain a Set of Reference Data Space Blueprints For Predictive Maintenance, Agile Supply Chains And Circular Manufacturing.



Maintain a Data Space 4.0 Minimum Viable Framework 4.0 Implementation For Manufacturing Data Spaces For the Benefit of the Community.



# SCOPE

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## Focused Data Value Networks

- Dynamic Asset 4.0 Management & Predictive Maintenance
- Agile Supply Chains
- Circular Manufacturing

5

## Sectors Addressed

- Automotive
- Textile
- Medical/Pharma
- Aero
- Machine Tool
- .....
- Electronics
- Energy, Oil & Gas

2

## Data Space 4.0 Ecosystems Analysed

- Hierarchical
- Non-Hierarchical



# KEY OBJECTIVES

- Codesign Data Space 4.0 pathway to meet **Data Act data sharing challenges.**
- Set data spaces guidelines for agile supply chains, dynamic asset management and predictive maintenance **data value networks organic growth.**
- Set Data Space 4.0 broad consensus to **accelerate secure, fair and responsible data sharing and reduced operational and maintenance costs.**
- Boost pan-European dialogue for Data Space 4.0 **SME friendliness.**
- Facilitate access to Data Space 4.0 initiatives and legal, business and technical building blocks to **ease Data Space 4.0 adoption.**
- Explore the role of Data Space 4.0 to **support resilient digital product passport (DPP) implementation** and circular manufacturing.

# OUTCOMES



**European Data Space 4.0 Alliance & Multi-stakeholder Governance Model** for data spaces for manufacturing



**Data Space 4.0 Canvas** of design strategies, business modelling, incentive schemes and best-practices



**Directory** of existing manufacturing data space assets, toolkits and blueprints



Reference **Smart Data 4.0 Models. Data Space 4.0 Roadmap**



Data Space 4.0 **Minimum Viable Framework (MVF)**

A **Multi-Step** Roadmap towards deployment of pan-EU data spaces for manufacturing



02

# WHY JOINING DATA SPACE 4.0

# PARTICIPATE



**Connect** with a vibrant data space for manufacturing community



**Share** strategies, ideas and use cases



**Unlock** new business models powered by data-sharing



**Design** multilateral data value chains in manufacturing products, factories and supply chains

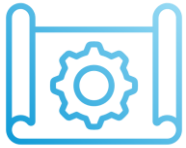




03

# DATA SPACE 4.0 ACTIVITIES

# COMMUNITY ACTIVITIES



## Data Space 4.0 Blueprints

- Certification Programme
- Data Governance



## Data Space 4.0 Surveys

- Data Space 4.0 Requirements (Jan 2023, Sept. 2023)
- Ref. Data Value Chain Scenarios.



## Physical Events

- EU Data Space 4.0 Unboxing Week (May 2023)
- EU Data Space 4.0 Adoption Week (Sept. 2023)
- DSSC Joint workshops (Feb 2023, May 2023, Sept. 2023)
- National & International Expert Workshops



## Virtual Events

- Deep Dive Webinars
- Open Dialogues
- Tech Talks



## Data Space 4.0 Roadmap

100+	<b>Events</b>
2	<b>EU Data Weeks</b>
3	<b>DSSC Workshops</b>
4	<b>Blueprints</b>
10	<b>Bootstrapping Programme</b>

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# DEPLOYMENT ACTIVITIES



## Data Space 4.0 Directory

- Building Block Catalogue
- Industrial Agreements
- Smart Data Model



## Data Space 4.0 SME

- (E)DIH Partner Programme
- AI TEF for Manufacturing Partner Programme



## Data Space 4.0 Governance

- Data Space 4.0 Alliance



## Data Space 4.0 Adoption

- Minimum Viable Framework 4.0



## Data Space 4.0 Inventories

- Data Platform Marketplace
- Business Model Navigator
- Maturity Assessment

- 1 Alliance
- 1 Inventory
- 1 Repository
- 2 SME Partner Programmes
- 1 Data Space 4.0 MVF

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04

**DATA SPACE 4.0  
ACTIVITIES:  
GET ENGAGED**

## Digital Factory Alliance

*“A community to see and be seen, to know and be known”*



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# ENGAGEMENT ACTIVITIES

		Member	Partner	Follower
<b>Physical Events &amp; Virtual Events</b>	(Co)organise Data Space 4.0 Private Events	YES	--	--
	Attend Data Space 4.0 Private Events	YES	By invitation	--
	(Co)organise Data Space 4.0 Public Events	YES	YES	--
	Attend Data Space 4.0 Public Events	YES	YES	YES
<b>Blueprints</b>	Participate in Committees	YES	By invitation	--
	Access Committee documentations	YES	--	--
	Access public blueprint information	YES	YES	YES
<b>Surveys</b>	Design surveys	YES	--	--
	Launch surveys	YES	YES	--
	Participate in surveys	YES	YES	YES
<b>Roadmap</b>	Define roadmap	YES	By invitation	--
	Consult roadmap	YES	YES	YES

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# DEPLOYMENT ACTIVITIES

		Member	Partner	Follower
<b>Directory</b>	Contact directory asset owners	YES	---	---
	Contribute asset to the directory	YES	YES	YES
	Consult directory	YES	YES	YES
<b>Governance</b>	Participate in Committees	YES	By invitation	--
	Consult governance model	YES	YES	YES
<b>Inventories</b>	Contact inventory asset owners	YES	---	---
	Contribute inventory to the directory	YES	YES	YES
	Consult inventory	YES	YES	YES
<b>DIH/TEF Partner Programme</b>	Design & Participate in Programme	YES	---	---
<b>Minimum Viable Framework 4.0</b>	Design MVP 4.0	YES	---	---
	Use MVP 4.0	YES	YES	YES

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# GET ENGAGED

Follow us and participate to open activities



Subscribe to the Data Spaces 4.0 newsletter  
and be part of the data space for manufacturing journey

Sign Up for the Data Space 4.0  
dialogue now. Be up to date and do  
not miss anything.

Having updated visibility, news and  
insights on the latest events, initiatives,  
assets and blueprints from the data  
space 4.0 community will help you to  
connect and develop your own  
competitive advantage.

<https://https://digitalfactoryalliance.eu/data-space-4-0-alliance/>

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# GET ENGAGED

## Join us and shape Data Spaces 4.0



### Why you should join the Data Space 4.0 Alliance?



The Data Space 4.0 Alliance will connect your business with a vibrant community where participants will share strategies, ideas and use cases that will help your organisation unlock new data-powered business models and develop or connect to rich data value chains in manufacturing products, factories and supply chains.

The Data Space 4.0 Alliance will maintain a Minimum Viable Product 4.0 implementation for the benefit of the members as well as reference data space blueprints for predictive maintenance, agile supply chains and circular manufacturing.

Data Space 4.0 will provide access to a set of comprehensive tools, reference best-practices and assets to support manufacturing industry to share data securely, cost-effectively and with full sovereignty.

Let's shape data spaces 4.0 together!

**Actively engage and become part of the evolution. Steer the Data Space 4.0 deployment.**

Connect with your preferred local, national, EU or International initiative or associations collaborating with Data Space 4.0 community and start contributing.

Become a member of the [Digital Factory Alliance \(DFA\)](#) and be a protagonist in the data space for manufacturing journey.

<https://https://digitalfactoryalliance.eu/data-space-4-0-alliance/>

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# PARTICIPATE Pan-EU Mnfg Industry 4.0 Data Platform Inventory

- DS 4.0 will provide a **comprehensive, highly usable and unified manufacturing data platform inventory**.
- A Call to Action. **Expression of Interest** for bringing **YOUR data platform** to the Inventory.
- First step to identify relevant Data Platforms and key stakeholders.
- Workshop to define the Data Platform inventory criteria, ensuring a shared vision on Data Platform key features, assets and building blocks to be detailed in the Data Platform Inventory.

**Fill out the Form by Dec 19th** and connect (5 min.)

<https://forms.office.com/e/zE1UrNcXXd>

# DATA SPACE 4.0

GRACIAS • THANKS • MERCI • DANKE • GRAZIE • DANK JE • OBRIGADO

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US



FOLLOW  
US



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[@dataspace40](https://twitter.com/dataspace40)

