

DATA SPACE = 4.0

**SME Support for Data Spaces in Manufacturing Data in
Manufacturing EDIHs & AI-TEFs**

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DATA SPACE 4.0 Final Event – 31st May 2024

The European Context

EU **goals** for 2030

- 1) +90% of SMEs to reach basic digital intensity
- 2) 75% of SMEs to
 - 1) Use cloud computing services
 - 2) Perform big data analysis
 - 3) Use Artificial Intelligence

Areas of required immediate action for SMEs

- 1) Digital Transformation services
- 2) New data sharing technologies & processes based on European ethical values
- 3) Fast, trusted and secure links to data assets built on digital and data sovereignty

DATA
SPACE 4.0



99% of all businesses in the EU
66% of the increase in value added

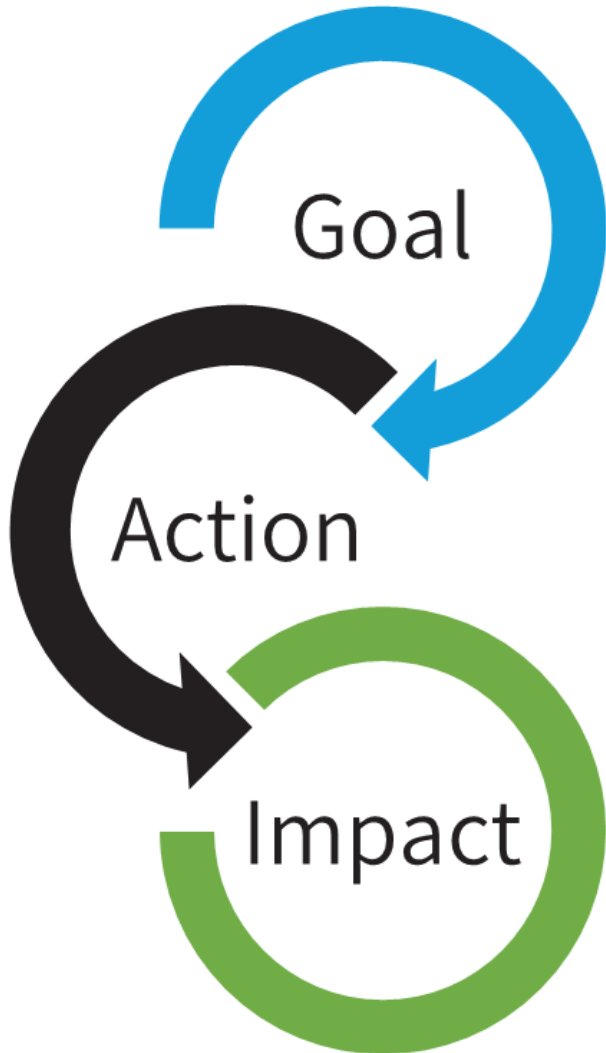
Digital Transformation



The use of data in manufacturing to align with the Digital Transformation goal implies Data exchange between SMEs, Data sharing frameworks, and therefore,

Data space exploitation

European Digital Innovation Hubs (EDIHs)



Digital Transformation of SMEs in the Manufacturing Sector



one-stop innovation expert shops that support SMEs & public organizations to respond to digital challenges and become more competitive



Manage the web presence of the network,
Host appropriate software platforms & tools,
Collaborate with Thematic Working Groups as “Data in Manufacturing”
Coordinate the online catalogue of EDIHs.



EDIH services in support to SMEs

1 Test Before Invest services



providing access to technical expertise and testing, as well as the possibility to 'test before invest'

2 Innovation services



providing innovation services, such as financing advice, funding search, among other services, that are central to successful digital transformation

3 Digital Skills Training



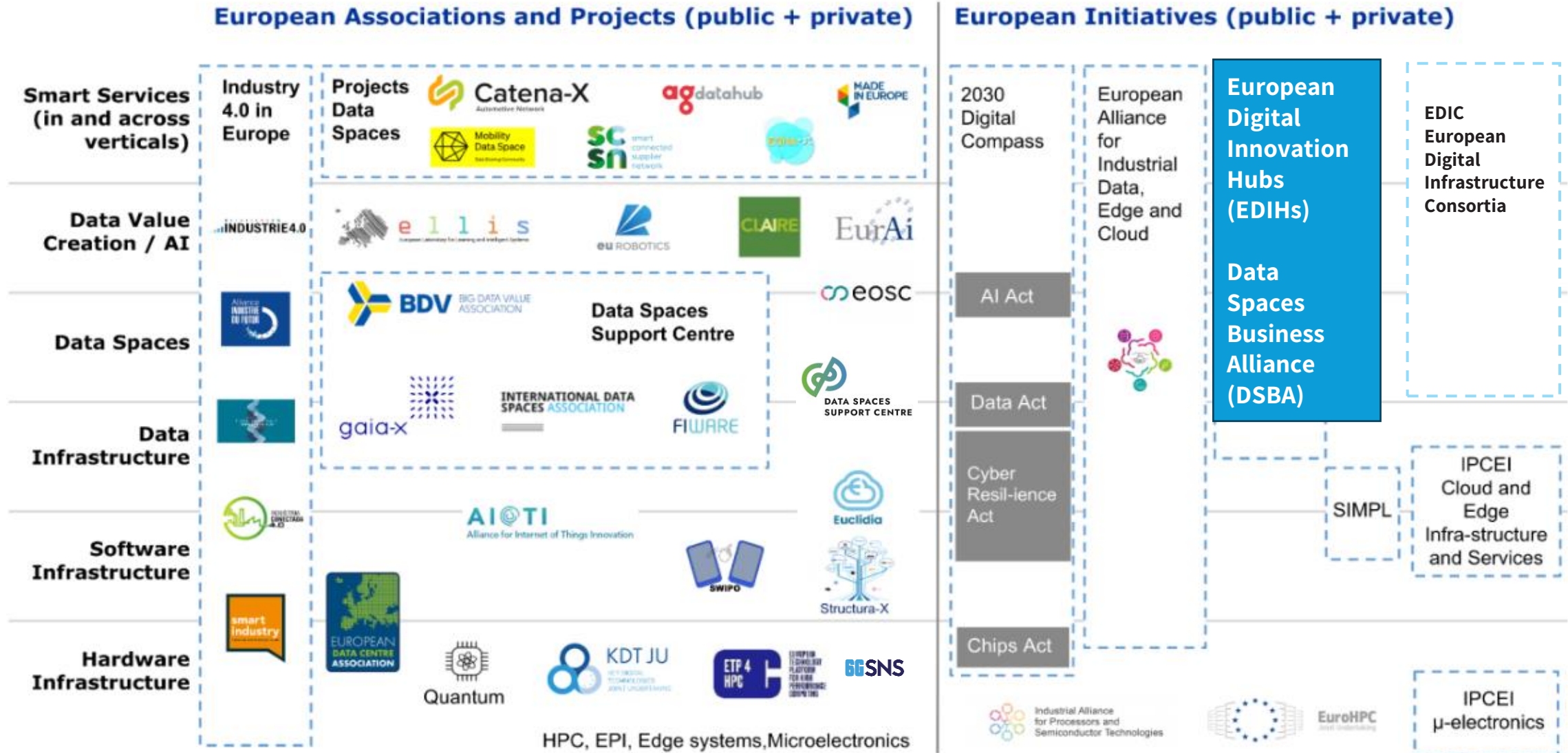
Providing expertise, digital skills training, and skills development for SMEs to grow their own digital transformation teams

4 Digital sustainability & circularity services



helping companies tackle environmental issues, in particular the use of digital technologies for sustainability and circularity

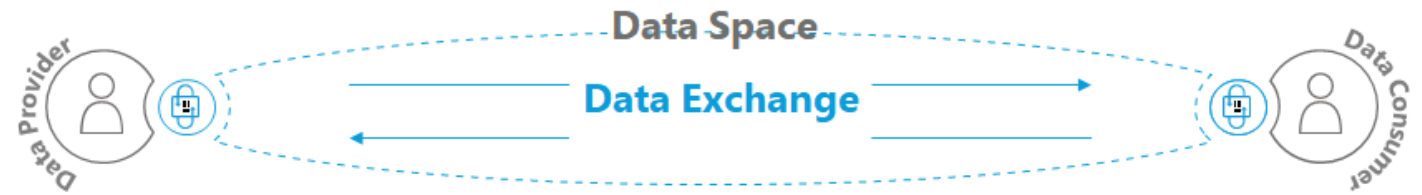
EDIHs in the EU Landscape



Business Role in a Data Space

Category 1: Core Participant

- DATA SUPPLIER
 - Data Creator creates data, e.g. by generating data such as from a sensor or accessing data in backend IT systems.
 - Data Owner as a legal entity or natural person executing control over data.
 - Data Provider makes data technically available in the Data Space
- DATA CUSTOMER
 - Data Consumer receives data from a Data Provider.
 - Data User is the legal entity that has the legal right to use the data of a Data Owner as specified by the usage policy.



Category 2: Intermediary

- Data Intermediary
- Service Intermediary
- Vocabulary Intermediary
- Clearing House
- App store
- Identity Authority

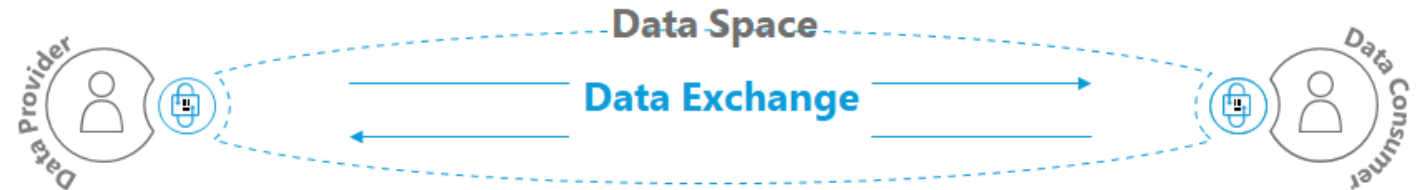
Business Role in a Data Space

Category 3: Software Developer

- App developer
- Connector developer

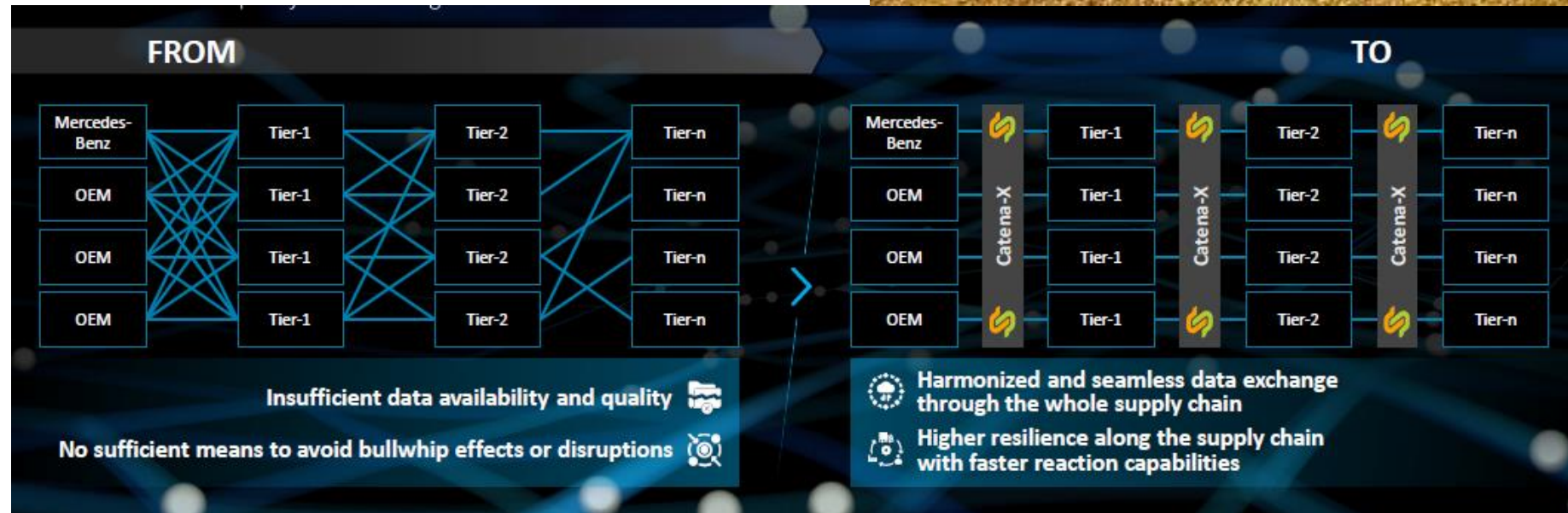
Category 4: Governance Body

- Data Space Owner
- Data Space Operator
- Certification Body & Evaluation Facilities
- Standardisation Organisations



Data Space Vision: SME pilot “atomization”

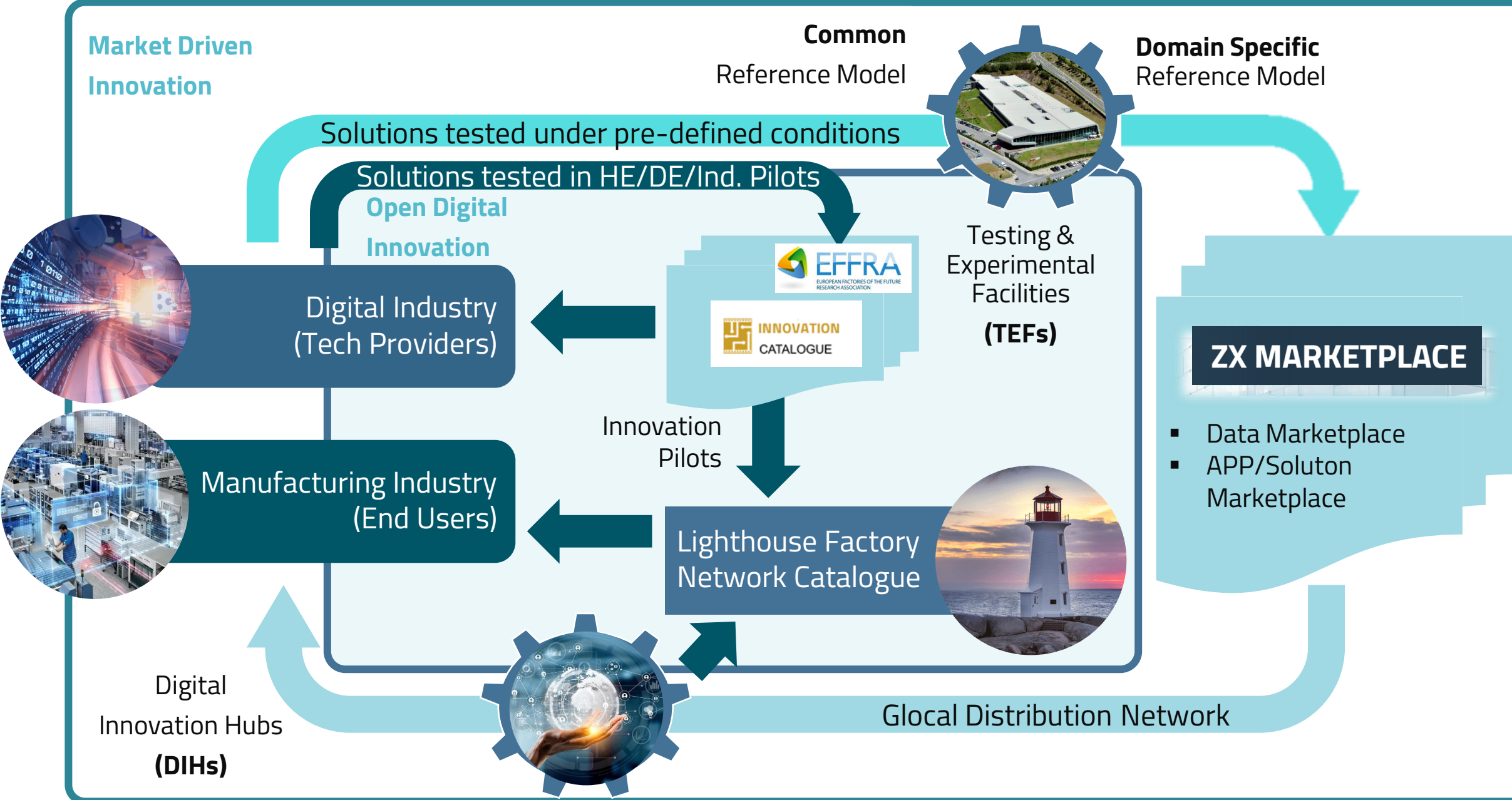
- Do I need a data space?
- What can I do with a data space?
- Should I join a data space?
- How do I join a data space?
- How do I made my data available in a data space?
- How do I create my data hub?
- How do I provide better services with data in a data spaces?
-



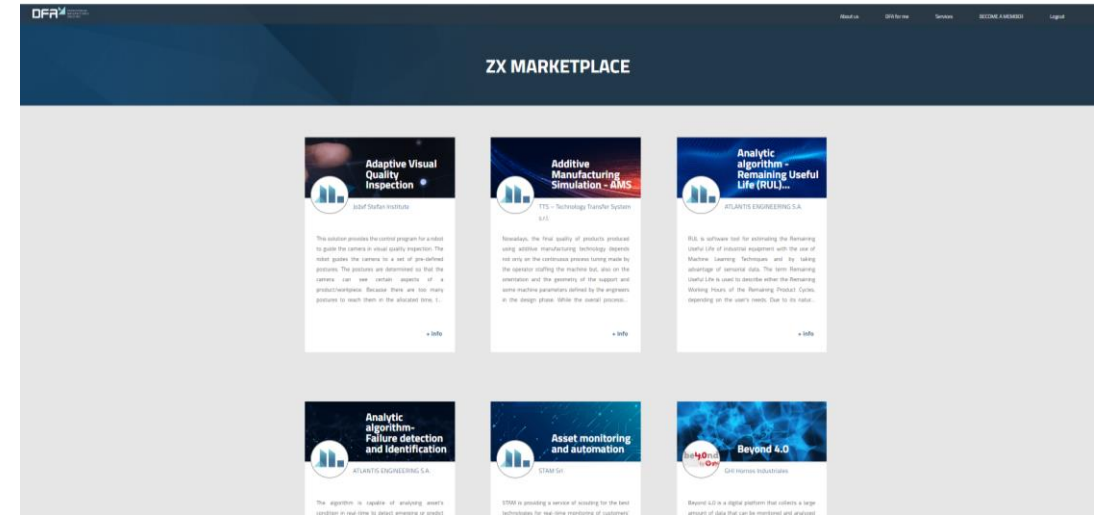
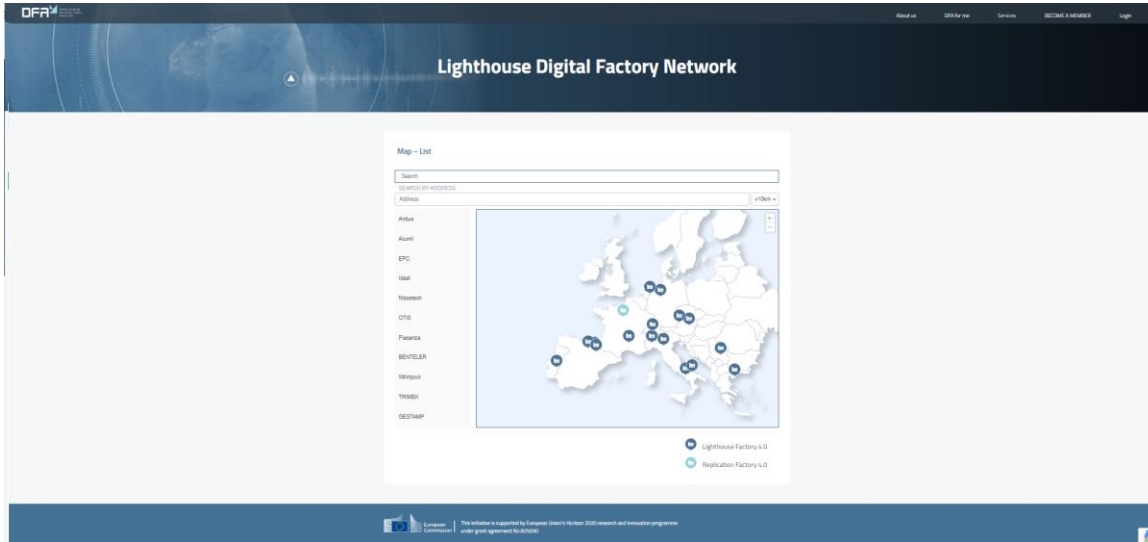
SME Data-Driven Transformation



Rapid Innovation Cycle for Zero-X Manufacturing



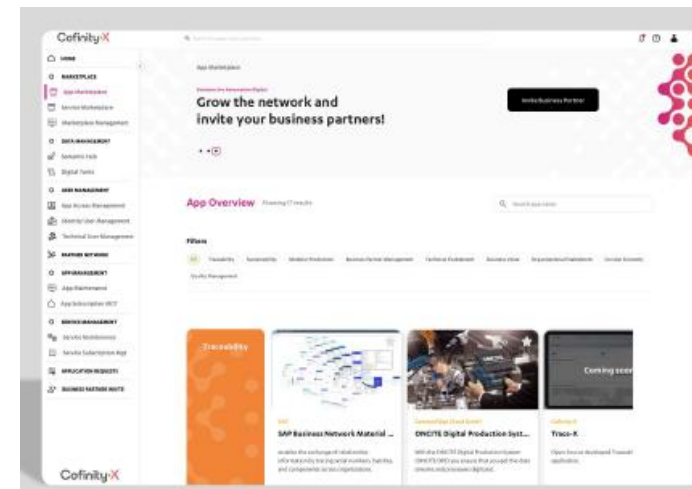
SME Data-Driven Transformation



Transparency & visibility for scale.

The value does not rely only on the availability of repository and use cases.

The value relies on a shared information repository that can be exploited and extended by collaboration with multiple national, regional and European associations & stakeholders.



(E)DIHs roles in Data Space 4.0 Ecosystem Development

Trusted neutral brokers of Data Space 4.0 solutions

- Traceability
- Quality management
- Supply chain management
- PCF
- DPP
-

Knowledgeable neutral brokers for engagement in Data Space 4.0 ecosystems

- Onboarding
- Data Services
- AI applications

**Digital Industry
(Tech Providers)**



Data Space Ecosystem

EDIH Network



01

Register

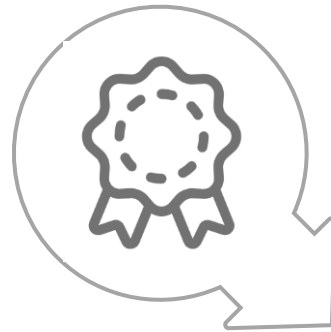
Be recognised as a Product & Service Provider in specific ecosystems



02

Search

Enhance your Solution & Find a Suitable Certification Centre to Qualify It



03

Improve

Incorporate your solution in Catalogues & Marketplaces



04

Connect

Connect and Offer Your Solution to (E)DIHs



05

Business

Support SMEs with Your Products as Part of Pilots

Manufacturing Industry
(End Users)



Data Space Ecosystem

EDIH Network



01

Register

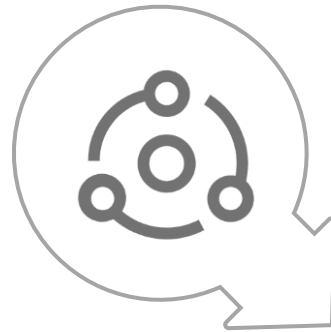
Get access to catalogues and marketplaces



02

Search

Find Replicable Pilots for Data Space 4.0 Manufacturing Processes



03

Connect

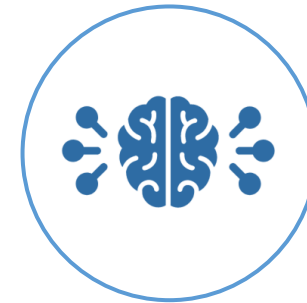
Connect with (E)DIHs to Support the Pilot Implementation to Your Manufacturing Reality



04

Improve

Incorporate Qualified Data Space 4.0 Digital Solutions



05

Compete

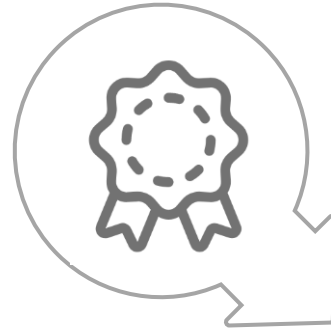
Improve Your Business Performance

Digital Innovation Hubs



Data Space Ecosystem

EDIH Network



01

Register

Become a Master DIH in Data Space 4.0 Processes

02

Specialise

Take part in the Data Space 4.0 DIH Onboarding Programme

03

Stand Out

Become an (E)DIH in the stakeholder Activation Network

04

Access

Get Access to Solution Marketplace & Reference Pilot Cases

05

Grow

Support Manufacturing SMEs

DATA SPACE 4.0

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



TRANSFORMING
MANUFACTURING
TOGETHER



Funded by the
European Union

