

#EHTEL_Symposium

2022 Thought Leader EHTEL Symposium

European Health Data Space: Putting plans into practice

28 - 29 November 2022

Free participation
Online



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EHTEL

Collaborating for Digital Health and Care in Europe



OPENDEI

Using available building blocks to create impact

Silvia Castellvi (International Data Spaces)

*Session 8 | Private sector approaches to health data spaces creation:
Can they also deliver?*

European Health Data Space: Putting plans into practice



Design Principles for Data Spaces

to be built on

- Data sovereignty
- A level playing field for data sharing and exchange
- A distributed soft infrastructure
- Public-private governance

This co-created in the EU funded CSA OpenDEI and written down in the Paper “Design Principles for Data Spaces”

OpenDEI Background

- Digitizing European Industry Program
- 40 organizations involved
- 27 big EU projects, hundreds of companies
- Fundamentals of data spaces, building blocks, future governance, transition



www.design-principles-for-data-spaces.org

Design Principles for Data Spaces

achieved a great impact on

- EC
- National Governments
- Industrial associations
- Companies
- Research & innovation community

Some KPIs:

- + 2.500 downloads
- + 400 events presentations
- + 10.000 potential community achieved

Data spaces experts team up with domain experts to define the fundamental design principles to build data spaces, written down in the Paper "Design Principles for Data Spaces"

OpenDEI TF 1 group of experts:

- +40 experts
- +25 companies
- + 13 project



www.design-principles-for-data-spaces.org

Building blocks state of the art

Objective and methodology

Objectives:

- Identify the existing building blocks, preliminary implementations and business cases.
- Initiate the evaluation of the building blocks and query the requirements.
- Create a building blocks catalogue.
- Investigate current data spaces implementations.

Methodology:

- Design a survey and communicate it
- TF1 IT2 KOM – 30th June 2022
- 1st Workshop – 21st July 2022
- 2nd Workshop- 31st August 2022

Open DEI co-create paper

- + 40 participants to the survey
- + 18 contributors to building blocks
- + 100 participants to the workshops

Results:

- OPEN DEI building blocks state of the art paper
- New release: next weeks



<https://internationaldataspaces.org/download/35062>

OPEN DEI building blocks catalogue

Objectives and scope

Objectives:

- Initiate a single source of true for technical building blocks.
- Provide detailed information about the building blocks.
- Map (in a self-descriptive way) the preliminary implementations of the building blocks.
- Create a living document

Technical building blocks:

Interoperability bb:

- Data Models & Formats
- Data Exchange APIs
- Provenance and traceability

Trust and sovereignty bb:

- Identity Management
- Access & usage control
- Trusted Exchange

Added value bb:

- Metadata & discovery
- Data usage accounting
- Publications & Marketplace



INTERNATIONAL DATA SPACES ASSOCIATION

GitHub

Search or jump to... Pull requests Issues Marketplace Explore

International-Data-Spaces-Association / Building-Blocks-Catalog Private Watch 7

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 3 branches 0 tags Go to file Add file Code Ab

Building-Blocks-Catalog

Interoperability Building Blocks

These building blocks should be deployed by all data providers. This way, each data provider can be sure that a consumer is entitled to do so, while each data consumer can be sure that data made available by any data provider selected. This way, each data provider can be sure that a consumer is entitled to do so, while each data consumer can be sure that data made available by any data provider selected.

- [Data Models and Formats](#)
- [Data Exchange APIs](#)
- [Data Provenance and Traceability](#)

to support innovative features and functions. For instance, this will help to support innovative features and functions. For instance, this will help to support innovative features and functions.

<https://github.com/International-Data-Spaces-Association/Building-Blocks-Catalog>

OPEN DEI TF1 Building blocks state of the art

Table of content

1. Introduction – DSBA technical convergence document
2. Survey participants profile
3. Importance of using building blocks for data space development
4. Data spaces instance of building blocks
5. Identification of building blocks
6. Data spaces initiatives contributing to building blocks
7. Data spaces harmonization survey
8. Next steps



OPEN DEI TF1 Building blocks state of the art

Per each building blocks

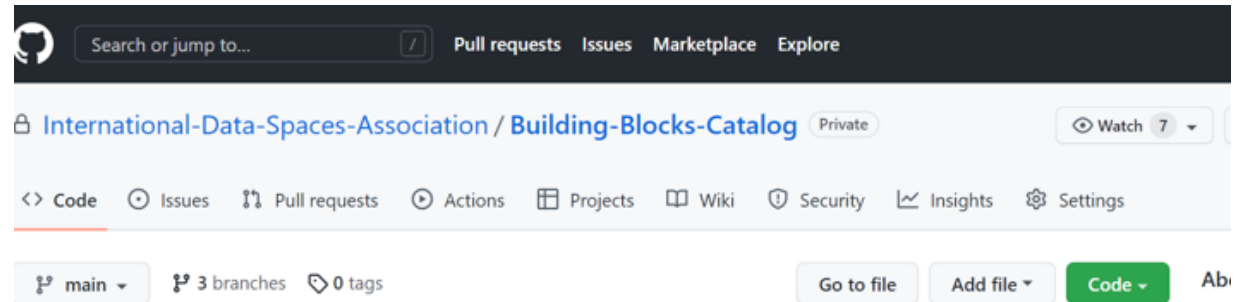
1. Identification of building blocks
2. Definition
3. Some preliminary implementations and business cases from diverse projects and initiatives
4. Requirements
5. DSBA technology convergence direction



OPEN DEI Building blocks catalogue

Per each building blocks

1. Role and scope
2. Features
3. Components and technologies
4. Implementations
5. Business use cases
6. Requirements



Building-Blocks-Catalog

Interoperability Building Blocks

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From data spaces concept to big data spaces deployment

Data Spaces Support



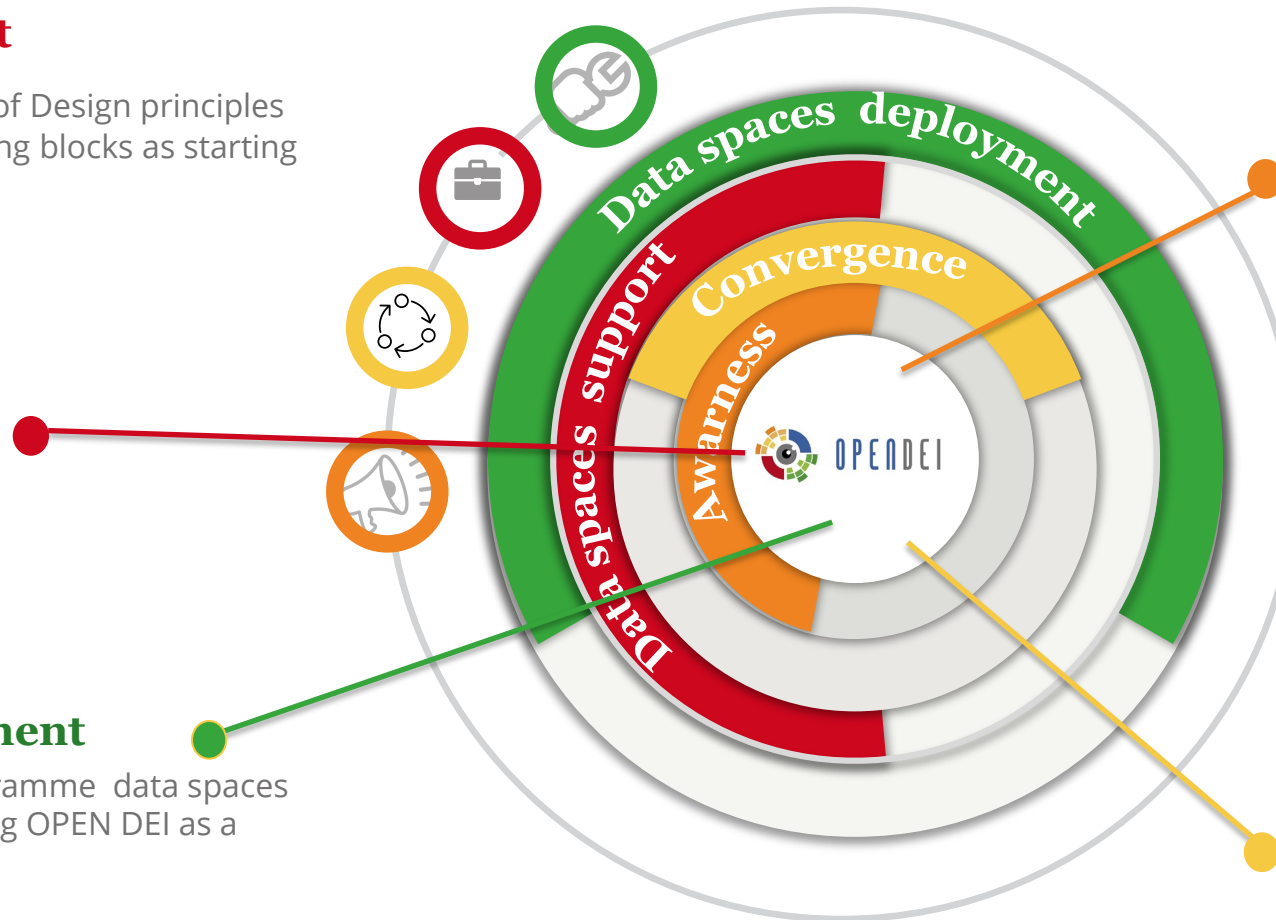
Adoption of Design principles and building blocks as starting point.



INTEROPERABILITY	TRUST	DATA VALUE	GOVERNANCE
Data Models & Formats	Identity management	Metadata & Discovery Protocols	Overarching cooperation agreement
Data Exchange APIs	Access & usage control policies	Data Usage Accounting	Operational (e.g. SLA)
Provenance and traceability	Trusted exchange	Publication & Marketplace services	Continuity model

Data spaces deployment

Current Horizon Europe programme data spaces deployment projects are taking OPEN DEI as a reference.



Awareness

OPEN DEI position paper influenced on target stakeholders as EC and National Governments:

- Uptake of the results into Horizon Europe & Digital Europe Programme
- Data Act and Staff working document on data spaces.
- EC workshops on future data spaces
- Finland: State of data spaces study has been commissioned by the Ministry of Transport and Communications of Finland.
- Spain has considered in their data spaces strategy.
- KPIs:
 - +2.500 downloads
 - +400 events presentations

Convergence



TF4 - Digital transformation business impact scope

TF4 is a **Think Tank**

to create **knowledge** and **tools** to foster effective **sharing** and **assessment** of experiences and lessons learnt on analysing the **drivers and barriers** for adoption of **platforms** supporting **Digital Transformation** and on assessing their **business impact**.

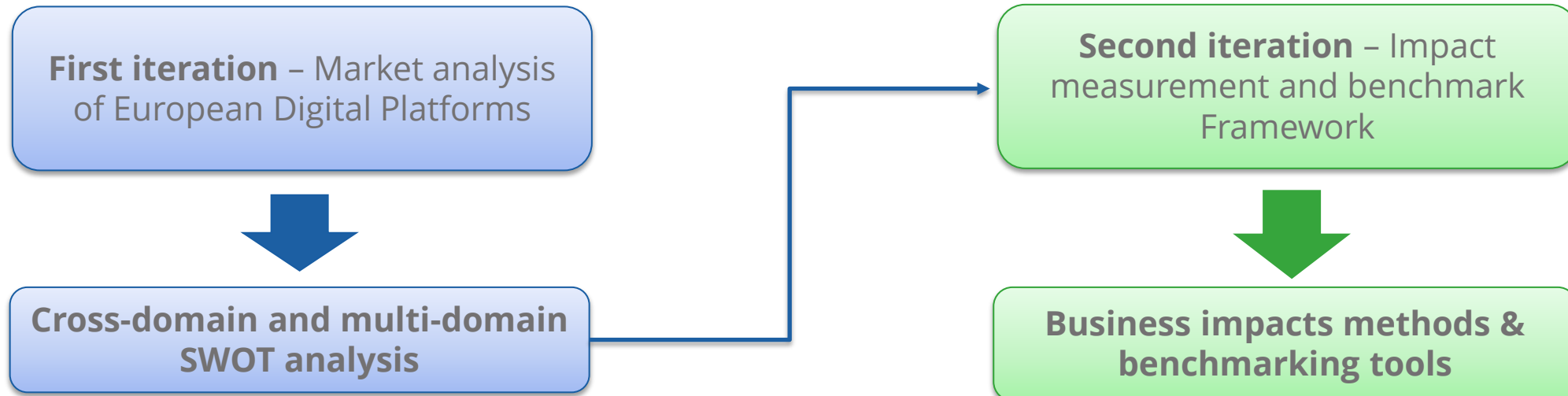


A pool of experts in the domain of Digitising European Industry (DEI) discuss, on a voluntary basis, **new opportunities and challenges** and consolidate their findings in a **White Paper** and **a business assessment framework**.



Task Force 4- Objectives and approach

- Provide a **consolidate view of drivers and barriers to adopt digital platforms and recommendations** in different domains and across domains
- Develop a **Business Impact and Benchmarking Framework** to support OPENDEI projects in maximizing the socio-economic impact and to guide the OPENDEI projects in developing and adopting their **Exploitation Plans**
- **Boost collaboration** with other EU initiatives and projects within the scope of business impact using existing synergies



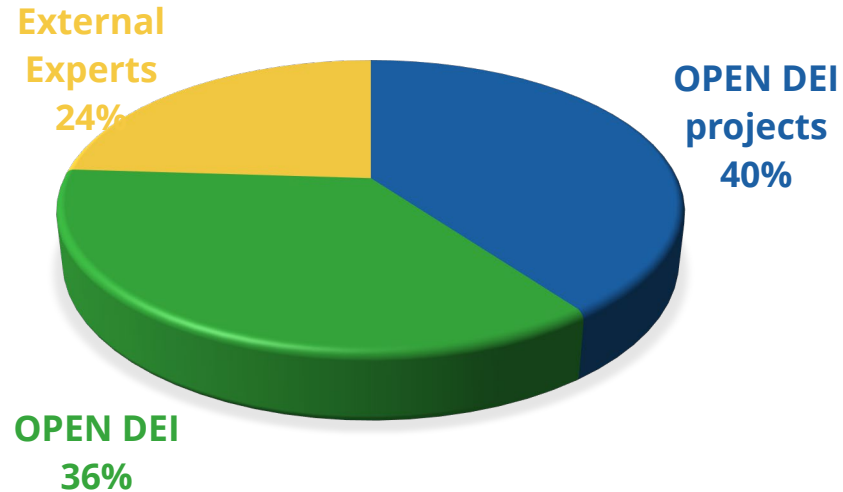


TF4 in a nutshell

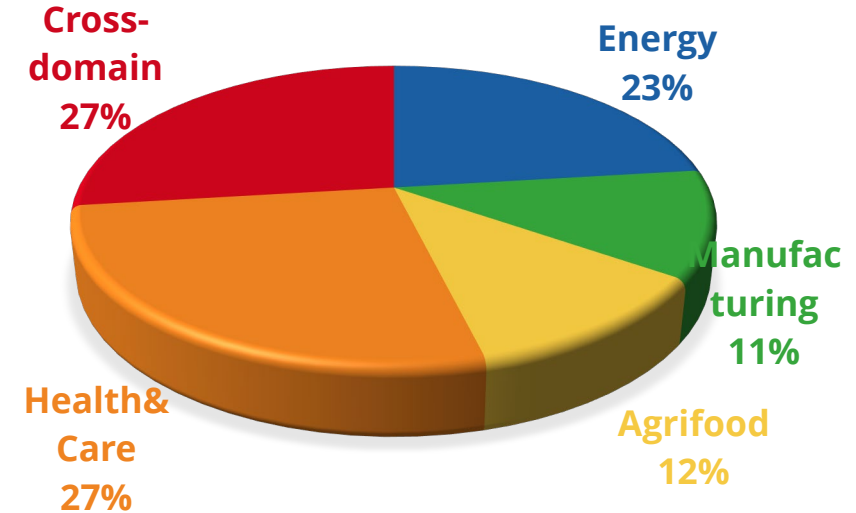


Total 25 members

TF4 MEMBERS PER TYPE



TF4 MEMBERS PER DOMAIN



Outputs

Iteration 1

- Market analysis *webinar*
- Domain-based and cross-domain *SWOT*
- *Position paper* "Analysis of drivers and barriers for the adoption of digital platform"

Iteration 2

- *Business impact assessment framework* (42 KPIs)
- *2 surveys* (Projects+ companies)



Iteration 1: TF4 Position Paper

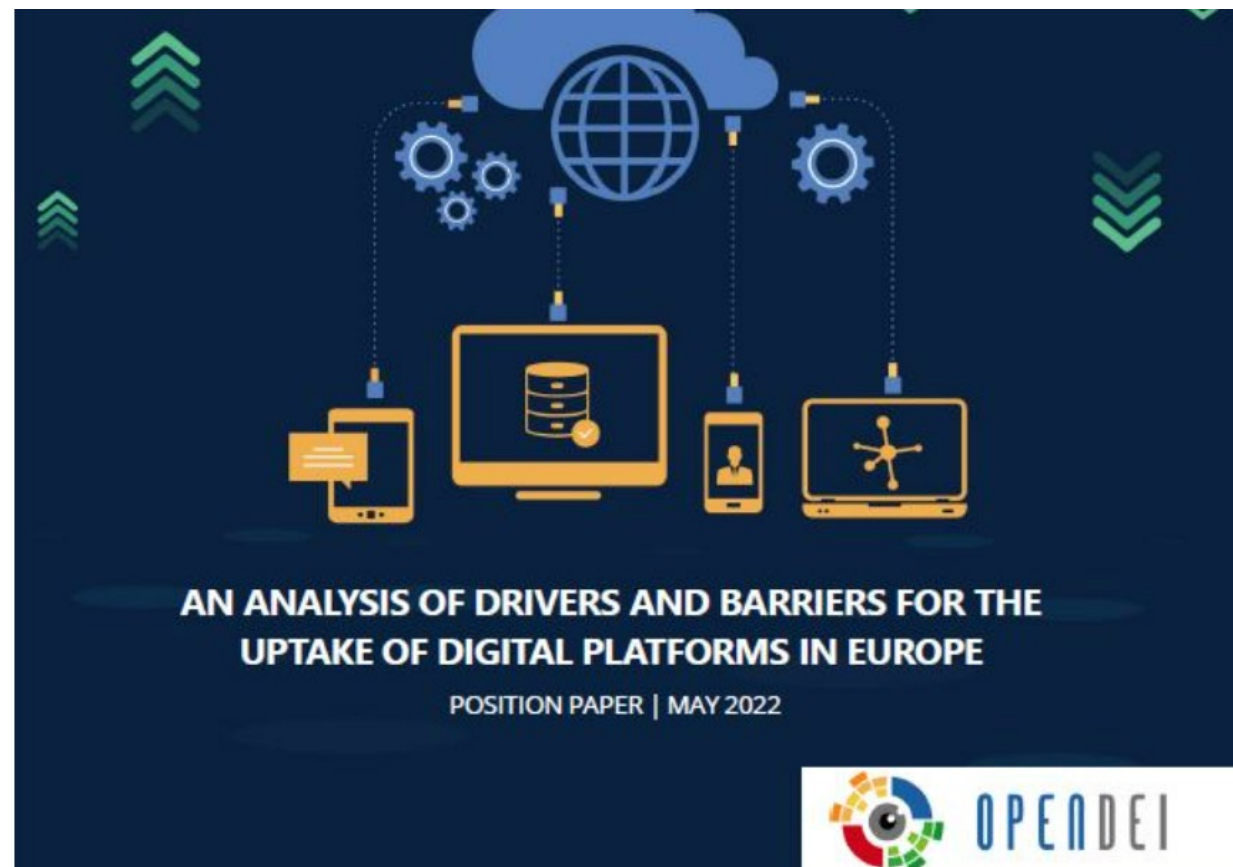
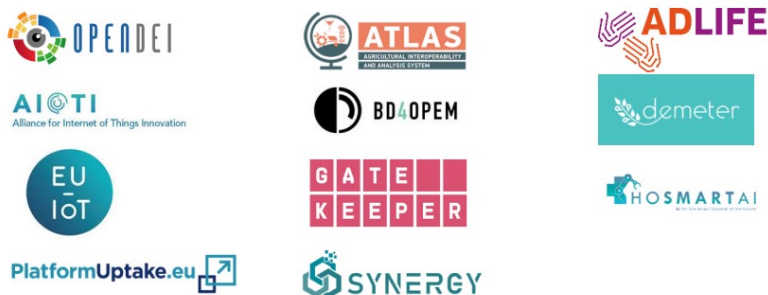
- Public on OPEN DEI website

<https://www.opendei.eu/case-studies/an-analysis-of-drivers-and-barriers-for-the-uptake-of-digital-platforms-in-europe/>

Contributing organizations



Contributing Projects





OPENDEI

THANK YOU

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