Open Source and Global Standards for Local Data Spaces

CxC Festival 2022, Brussels, 11.01.2022

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The new Digital Life will gravitate around Digital Twin / Data Spaces describing **What** is going on, **Where**, **When** and **Why**.
Today data are very often organized in silos

- Smart City
- Smart Water
- Smart Energy
- Smart Lighting
- Smart Transport
- Smart Home
- Smart Retail
- Smart Port
This is FIWARE!

- A framework of Open Source platform components (Generic Enablers with the **FIWARE Context Broker** as main component)

- A standard for exchange of context information: **FIWARE-NGSI** (Next Generation Service Interface)

- Standard Data Models

- Reference Architectures
Data Spaces Business Alliance

Unleashing the Data Economy
BDVA, FIWARE, GAIA-X AND IDSA LAUNCH AN ALLIANCE TO ACCELERATE BUSINESS TRANSFORMATION IN THE DATA ECONOMY (SEPTEMBER 23RD, 2021)

• One voice and a common framework to make interoperable Data Spaces happen;

• Together, the Alliance's founding organisations represent 1,000+ leading key industry players, associations, research organisations, innovators, and policy-makers worldwide;

• With its combined cross-industry expertise, resources and know-how, the Alliance drives awareness and uses more than 100 Hubs for dissemination
DSBA: OPERATIONALISATION AND 100-DAY PLAN
BRUSSELS, SEPTEMBER 30TH 2021
### Data Spaces Funnelling / Roll-out plan and process
Coordinate the evolution of the most promising data spaces,
- Group the lighthouse initiatives and promising data spaces to a frontrunner data spaces initiative
- Map similar initiatives in different MS, and match-making,

### Data Space Handbooks
- Create handbooks
- Make use of use case template and use case playbooks
- Individual plans per data space, coherent to a common framework

### Data Space Deployment
Continuous knowledge transfer to the data spaces
- Enable consortia to grow and realize the data space
- Network of experts / mobilise talent
- What value will you find in the harmonized model? Transition stories for early adopters

### Data Space Operations
- Support to create all the elements needed for roll-out a Data Space, Not only the technical, but organisational, skills, etc, etc.
- Handbook of intra-organisational and inter-organisational aspects
- Governing body and operating company(ies)

### Radar and Maturity Assessment
Retrieve information on data space endeavours / Scout promising and mature endeavours
Identify Lighthouses and best practises / Benchmarking

### Standards
- Influence standards (European and Global standards)
- Standards landscape
- Liaisons

### Regulation
- Understand, influence, Implement, Educate, Compliance

### Technology Roadmap and Strategy
- Map technologies on timeline
- Identify challenges and gaps
- Derive technology roadmap
- Strategic Agenda
- Future frameworks / Evolution

### Disruption and Innovation
- How do we bring disruption and innovation into the ecosystems?
- Incubator / Testbeds / Experimentation
- Scientific reflection on the evolution of the framework
- Network of research experts

### Data Space Education
- Data Spaces designer, engineer, operator and PM profile
- Training and educational courses
- General Awareness Programme

### Common Data Space Framework
- Minimum set of requirements (operate, interoperate, comply, get value,...)
- Common set of rules and design principles, based on existing frameworks

### Reference Technology Framework
- SW integration of components
- Integration of existing solutions
- Map technologies to process

### Common voice
- Mission and Vision
- Joint plan

### HUBs
- Map
- Coordinate
- Collaborate

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**WORK-PLAN STRUCTURE**

**Deployment**

- Data Spaces Funnelling / Roll-out plan and process
- Data Space Handbooks
- Data Space Deployment
- Data Space Operations

**Monitor**

- Standards
- Regulation
- Technology Roadmap and Strategy
- Disruption and Innovation

**Long-term enablers**

- Common Data Space Framework
- Reference Technology Framework
- Common voice

**Ecosystem engagement and Communications**

- Radar and Maturity Assessment
- Data Space Support Centre

**Framework**

- Standards
- Regulation
- Technology Roadmap and Strategy
- Disruption and Innovation
- Data Space Education
- Data Space Operations

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**INTERNATIONAL DATA SPACES ASSOCIATION**

**BDV**

**FIWARE foundation**

**gaia-x**
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<td>JWT/JWS, XACML, IDS Connectors</td>
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(*) CEF Building Blocks

Technology Building Blocks

Example for Building Blocks as published in Open DEI 'Design Principals for Data Spaces' Version 1
Matchmaking for European Data Spaces

**Dec. 16th, 2021**

**Registration open:** Apply for your pitch!

**Dec. 16 | 9:00–10:00**
**Setting the scene**
- Convergence of initiatives on data spaces
- How to team up to make data spaces happen and leave business impact
- EC and BDVA, FIWARE, GAIA-X, IDSA, MYDATA representatives

**Dec. 16 | 10:00–13:30**
**Pitches of your domain and data space expertise**
- 30 minutes per domain
- 3 minutes per pitch
- Green Deal
- Mobility
- Energy
- Media
- Skills
- Manufacturing
- Agriculture
- Smart Communities
- Cultural Heritage
- Public Administration
- Financial
- Tourism
- Energy

**Dec. 16 | 13:30–14:00**
**Wrap-up, next steps, closing**
How we support matchmaking, ecosystem building and the growth of data spaces in all domains

**Make matches and build teams!**
(matchmaking tool stays open)

Some days before Dec. 16

After Dec. 16
Our quick-wins within the first 100 days

1. Align our **hubs** – mapping paper to be released in January
2. (technical) **Architecture** coherence – 1st draft in January
3. Common Data Spaces **Framework** – start of consultation process in January
4. One joint **radar** to scout promising data spaces – registration is already open
5. Giving **deployment support** to data spaces – teaming up for the data spaces support center, joint data spaces support activities
Recent FIWARE Position Papers and White Papers
DATA SPACES, DIGITAL TWINS, System-of-Systems, Smart MAAS

- **FIWARE FOR DATA SPACES**
  - Published in June 2021

- **FIWARE FOR DIGITAL TWINS**
  - Published in June 2021

- **FIWARE FOR 4CITIES**
  - Version 2 published in November 2021

- **ARTIFICIAL INTELLIGENCE WITHIN CITIES**
  - Editorial Campaign published in July 2021

- **FIGHTING CLIMATE CHANGE WITH FIWARE**
  - Published in May 2021
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