

March 2023

Personal Data Spaces
Workshop 2 – Technology Landscape

intercoerable europe

# Welcome! Viivi Lähteenoja, University of Helsinki & MyData Global

# Meet our hosts Alex Kotsev & Sven Schade, JRC Digital Economy (JRC.T.1)

# Greetings from SEMIC action

Seth van Hooland, DG DIGIT Interoperability (DIGIT.B.2)



# Agenda

	Time
Welcome & introduction	10:00 - 10:30
Breakout workshop sessions – A. Identity & B. Data models	10:40 - 12:40
Lunch	12:40 - 13:30
Fishbowl discussion: Growing Personal Data Space Services	13:30 – 14:30
Breakout workshop sessions – C. Data Access Control & D. Governance	14:30 – 16:30
Break	16:30 – 17:00
Synthesis of the results of the day	17:00 – 17:45
Thank you and closing	17:45 – 18:00
Networking drinks	18:00 – 18:45

Transport to hotels



# Today's workshop in context



The **policy and business landscape** of interoperable personal data spaces adoption and implementation: what are the key challenges for different stakeholders, public & private?

Held January 12, 2023 in Brussels, Belgium



The **technical landscape** of personal data spaces: how can existing and potential technical approaches support addressing identified challenges in an interoperable way?

Today March 1, 2023 in Ispra, Italy



The co-creation of a **roadmap of future actions** as a joint work plan for the coming 2 years: what do we need to do next to promote interoperable personal data spaces?

To be held March 31, 2023 in Ghent, Belgium



# Getting ready for today's work

Max Leonard, Inrupt; Joss Langford, Coelition



# Today's objectives

Bringing together **Solid** and **MyData** experts around a **concrete use case** to:

- Identify the key building blocks which will show how personal data space technologies can be used to create an architecture that is conformant to MyData principles.
- Looking at the areas of:
  - Identity
  - Data Modelling
  - Access Control
  - Governance



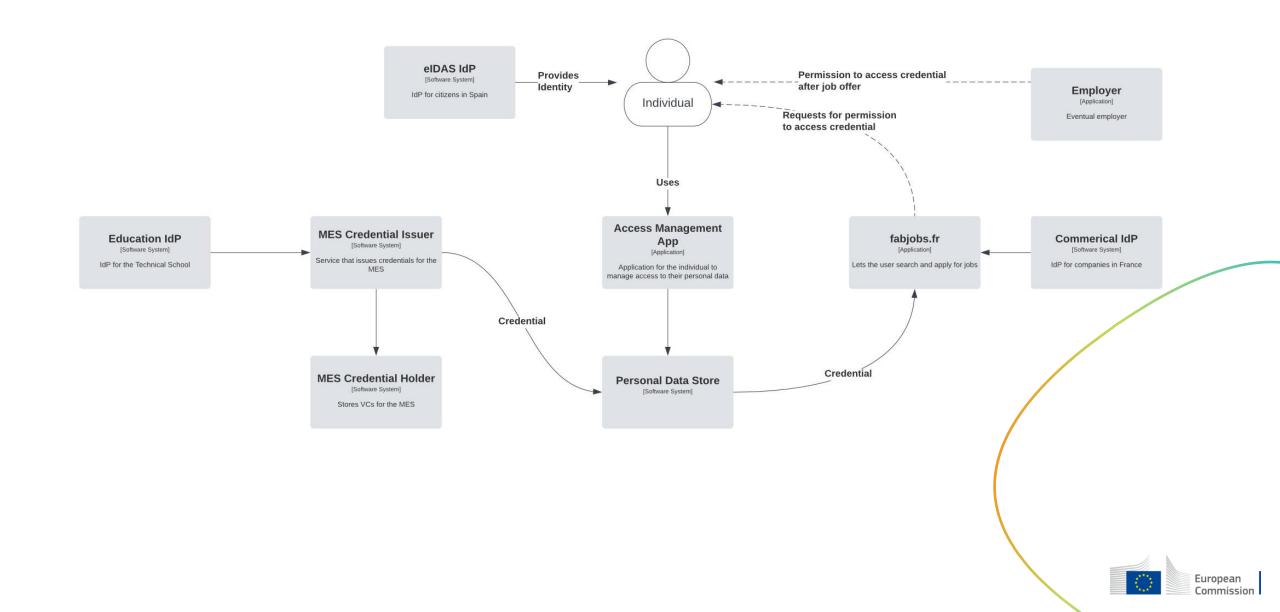
# **Today's Outcomes**

By the end of the day we will have:

- A set of annotated architectures diagrams which shows a candidate approach to building the use case
- A summary of:
  - Some of the big problems to solve
  - Integration points
  - Technologies
  - Things we agree on!

To inform a EC recommendation whitepaper on personal data spaces and interoperability



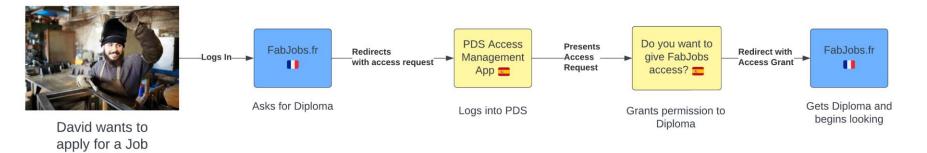




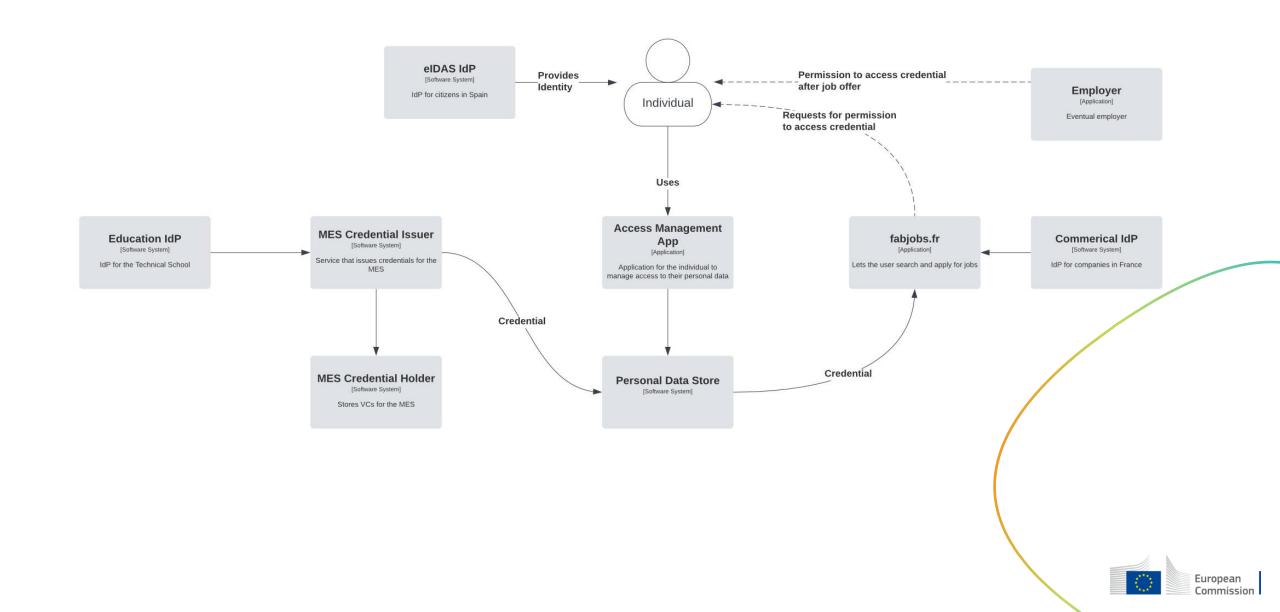
David

- Qualifed welder from the Madrid Technical School
- Living in Madrid
- Moving to France
- Needs to prove his qualifications and right to work to apply for welding jobs in France
- Has a personal data store, issued by the Spanish government, used to store his diploma & right to work as Verifiable Credentials

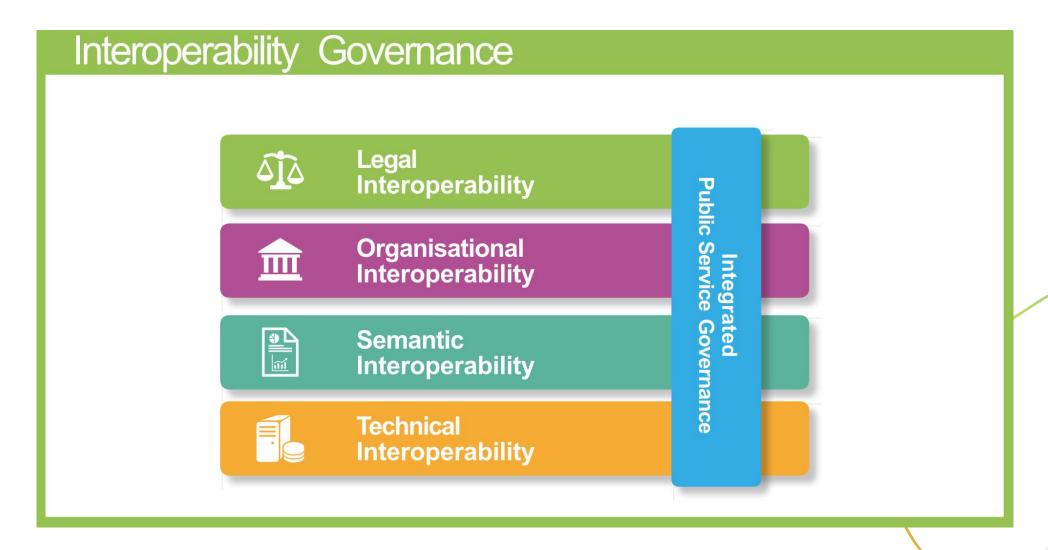








## European Interoperability Framework (EIF)





# European Interoperability Framework (EIF) Principles

- Subsidiarity & Proportionality
- Openness
- Transparency
- Reusability
- Technological Neutrality & Data Portability
- User-Centricity
- Inclusion & Accessibility
- Security & Privacy
- Multilingualism
- Administrative Simplification
- Preservation of Information
- Assessment of Effectiveness & Efficiency



## Interoperability for Engineers

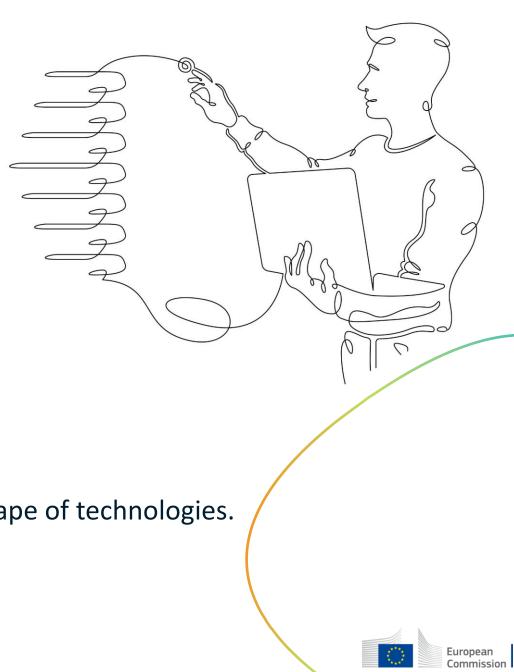
### Sometimes easier or lower risk:

Using tools & approaches developed by others

### **Sometimes more difficult:**

Ensuring tools & approaches can be used by others

Always requires an understanding of the evolving landscape of technologies.



# Morning workshops

# A. Identity

### **Facilitator: Max Leonard**

Florian Barthelemy

Matthias De Bièvre

Harri Honko

Anton Wiklund

Mika Leivo

**Huw Diprose** 

Jan Lindquist

**Bart Buelens** 

Mika Huhtamäki

Gaber Terseglav

**Alexander Kotsev** 

Space: 306A

# B. Data Models

### **Facilitator: Joss Langford**

Arne Van Der Stuyft

Esther De Loof

Melanie Verstraete

Michiel de Jong

Katryna Dow

David Van den Brande

Pierre-Antoine Champin

Marcello Grita

**Paul Knowles** 

Michael Mulquin

Sven Schade

Space: 305



# B. Data Models (space Y) Joss Langford, Coelition





# Fishbowl discussion: Growing Interoperable Personal Data Spaces



## Growing Interoperable Personal Data Space Services

### 1. More services:

Better use & more re-use of personal data requires more services to be available to individuals and those services need to be findable.

### 2. More individuals using services more often:

Personal Data Spaces will need to be valuable to all the participants of ecosystem – individuals as consumers of services, efficiencies for infrastructure providers, compliance & evidencing for those with regulatory requirements etc.

### 3. More data to build services on:

Bringing together more data sources: working across data spaces.

### 4. More dynamic, efficient and larger markets:

Cross-border within EU and third country considerations.



# Afternoon workshops

## C. Data Access Control

### **Facilitator: Max Leonard**

Florian Barthelemy

Michiel de Jong

Katryna Dow

Harri Honko

Anton Wiklund

Michael Mulquin

Pierre-Antoine Champin

**Huw Diprose** 

Jan Lindquist

**Bart Buelens** 

Sven Schade

Space: 306A

### D. Governance

### **Facilitator: Joss Langford**

Arne Van Der Stuyft

Esther De Loof

Melanie Verstraete

Matthias De Bièvre

Paula Kolenko

David Van den Brande

Mika Leivo

**Paul Knowles** 

Mika Huhtamäki

**Gaber Terseglav** 

**Alexander Kotsev** 

Space: 305

# C. Data Access Control Max Leonard, Inrupt



### Governance

"Governance is the framework of authority and accountability that defines and controls the outputs, outcomes and benefits"

- Murray-Webster, Ruth; Dalcher, Darren. / APM Body of Knowledge. 7th ed ed. Princes Risborough: Association for Project Management, 2019. 230 p.

"It is done by the government of a state, by a market, or by a network. It is the process of choosing the right course among the actors involved in a collective problem that leads to the creation, reinforcement, or reproduction of acceptable conduct and social order."

- Hufty, Marc (2011). "Investigating Policy Processes: The Governance Analytical Framework (GAF). In: Wiesmann, U., Hurni, H., et al. eds. Research for Sustainable Development: Foundations, Experiences, and Perspectives". Bern: Geographica Bernensia: 403–24.





# Synthesis of the results of the day Viivi Lähteenoja, University of Helsinki & MyData Global



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# Workshop series



Another event upcoming, the First International Workshop on Semantics in Dataspaces on April 30 / May 01, 2023.







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innovation ∞ govtech ∞ community

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<u>Interoperable Europe | LinkedIn</u>



DIGIT-INTEROPERABILITY@ec.europa.eu



https://joinup.ec.europa.eu/collection/interoperableeurope/interoperable-europe