



31 March
2023

Personal Data Spaces Workshop 3 – Quo vadis, interoperability

interoperable
europe

Welcome!

Viivi Lähteenoja, University of Helsinki & MyData Global



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?

Held 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?

Today March 31, 2023 in Ghent, Belgium

Meet our hosts

Esther De Loof, Operation director of SolidLab



Greetings from SEMIC action and JRC

Sven Schade, JRC Digital Economy (JRC.T.1)



Agenda

	Time
Welcome & introduction	10:30 – 10:45
Report from workshop 2	10:45 – 11:00
Plenary	11:00 – 11:30
Coffee break	11:30 – 11:45
World café: Workshopping 3 further topics	11:45 - 13:00
Lunch	13:00 – 14:00
Roadmapping: What needs to happen next?	14:00 – 16:45
Summary & next steps	16:45 – 17:00
Networking drinks	17:00 - ...

Report from workshop 2

Workshop 2

Bringing Solid and MyData technical experts to look at the **technical landscape** of personal data spaces:

"How can existing and upcoming technologies and approaches address the identified challenges in an interoperable way?"

Workshop 2

4 Areas:

- Identity
- Access Control
- Data Models
- Governance

Workshop 2

Identity

- Scalable networks of trust are essential, but the standards are here to help us build them
- Bilateral trust relationships will remain important

Workshop 2

Access Control

- Proliferation in approaches often tailored to domain
- Common set of capabilities but complete portability is a non-trivial problem
- Common use of foundational technology

Workshop 2

Data Models

- Use of Linked Data non-contentious
- Scenarios where Linked Data is inappropriate still need to be explored

Workshop 2

Governance

- Governance needs to be separated from regulatory and legal compliance.
- Authority and Administration need to be separated
- The individual is rarely in complete control of data about them unless they are the data source.

After the break: World café

World café session



Workshop further the topics included in the prereading materials



Approach:

- Plenary: Core team members will pitch a section from the prereading materials.
 - **Motivation:** Why personal data spaces? What are the problems they solve?
 - **Concept:** How do we understand personal data spaces? How do they relate to other concepts being developed?
 - **Market:** How do parties in personal data spaces sustain their operations?
- Breakout session 'World café'
 - The group is divided into three groups (will be displayed later).
 - Three stations across the room to discuss a section.
 - Each group will join a station.
 - After 20 minutes, the facilitators will signal that it is time to rotate to the next station.
 - All groups visit all stations.

Motivation: Why interoperable personal data spaces

We used the BLOFT framework of the DSSC

Business : The Eu Data Economy organized for individual and societal benefit in a level playing field can improve competitiveness and sovereignty and speed up innovation

Legal : The Regulatory Acts and intermediary roles and investments in the technology standards and rulebooks will help to "get the data flowing" , enable adoption and growth of the fair data economy (DGA, DMA, DA, AI acts and DSSC) and increase trust, compliance and accountability

Operational : Data Utilities, Digital Commons, cooperatives and data altruism are helping us evolve towards Society 5.0 goals in our local communities and European cross border collaborations.

Functional : Easy to manage personal data spaces help us realise the potential benefits for individuals and society and participate in our transition towards our urgent climate neutrality and sustainable development goals

Technology : Contextual personal data usage is essential in an AI driven future , and secure sandboxing with interoperable, ethical, transparent and accountable software algorithms can help us realise our ambitions.

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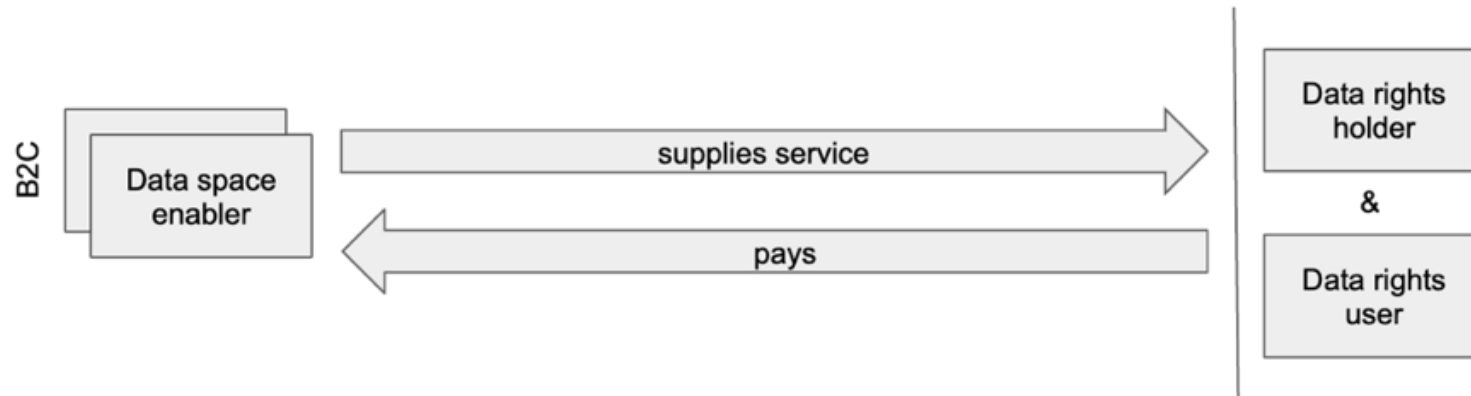
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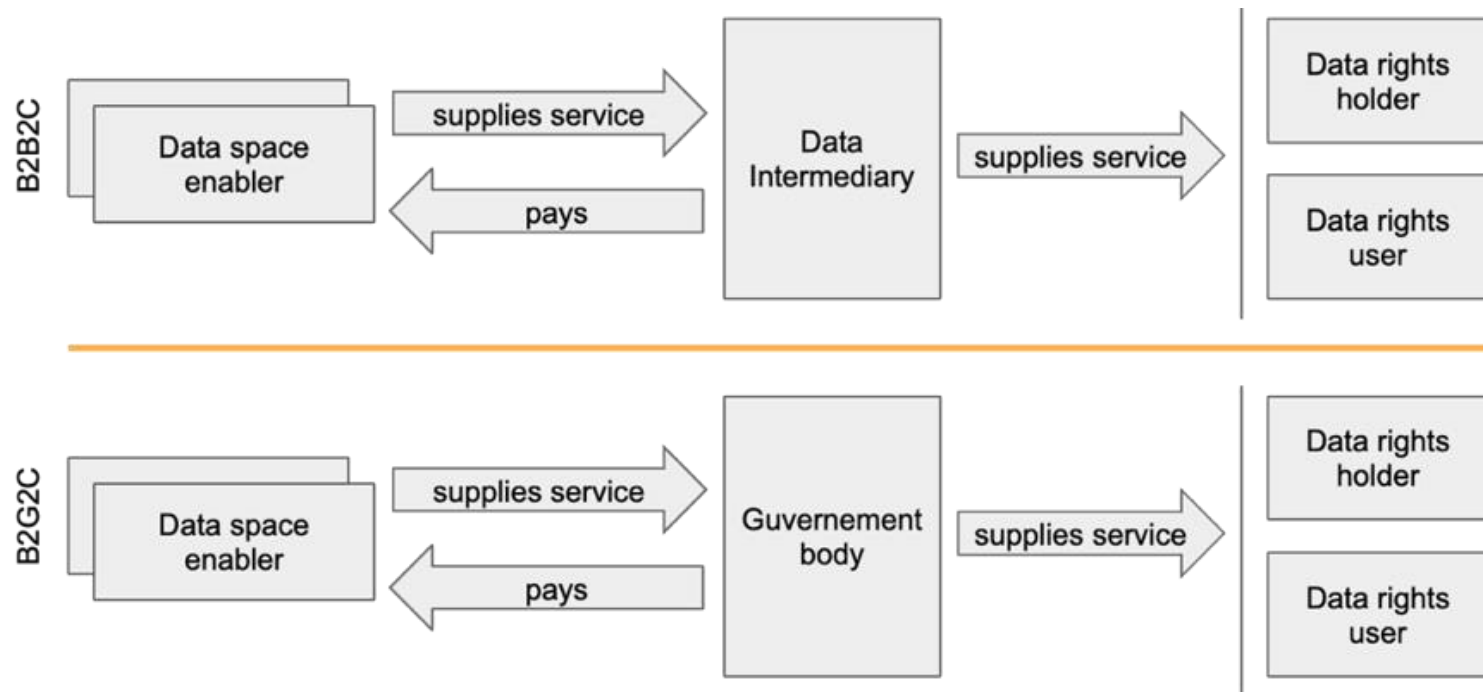
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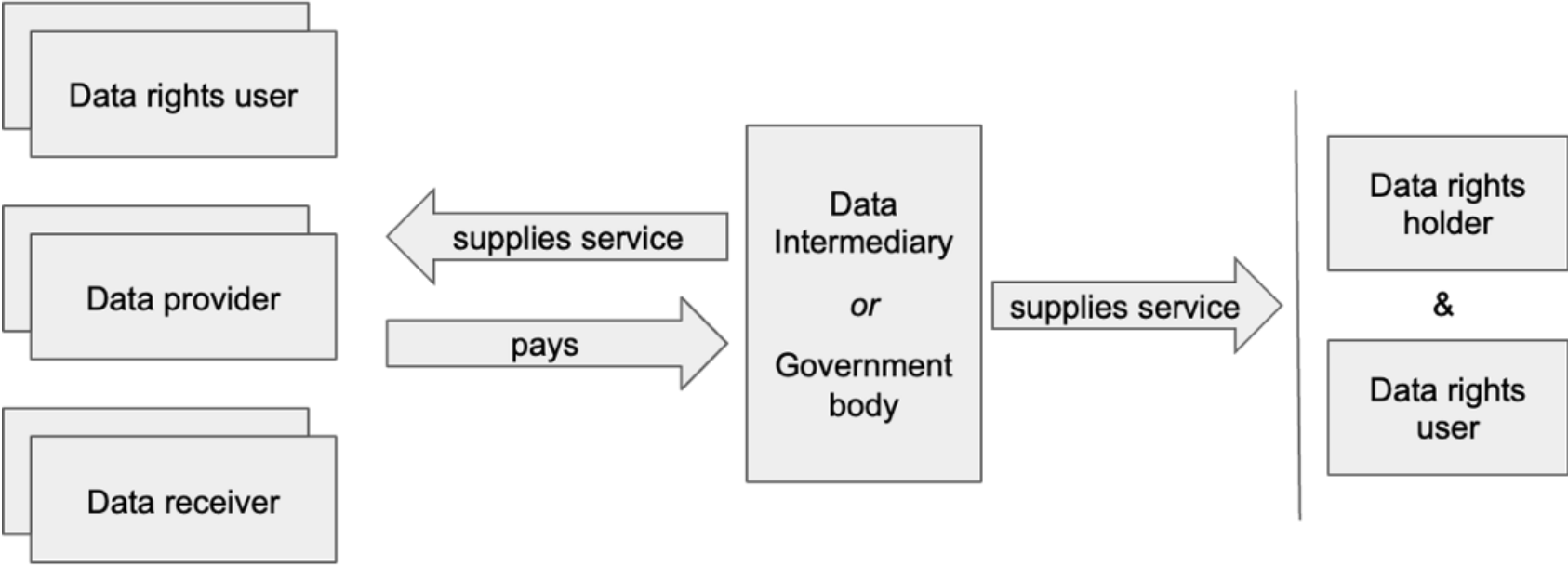
Business model: Personal data space enabler



Business model: Personal data space enabler



Business model: Intermediary and Government body





BREAK!
World café at 11:45



Morning workshops: First stations

A. Motivation / Paul

Group name: Brussels

Seth Van Hooland
Esther De Loof
Saskia Huys
Diogo Pereira Henriques
Tomas Lehtinen
Dimitris Zeginis
Karmen Kern Pipan
Miha Jesenko
Anabel Fraga
Gijs van den Beucken
Max Leonard
Vrikson Acosta
Pierre-Antoine Champin
William Verbeeck

B. Concept / Viivi

Group name: Ispra

Christopher Wilson
Harri Honko
Mikko Sierla
Elfi Goesaert
Andreea Dumitru
Mihaela Cioara
Sonia Jimenez
Philippe Duchesne
Raf Buyle
Franky Deleu
Hans Arents
Katryna Dow
Wouter Janssens
August Bourgeus
Florian Barthelemy

C. Market / Marcello

Group name: Ghent

Jasmin Repo
Sylvain Le Bon
Jaak Geens
Meindert Osinga
Michael Mulquin
Paul Knowles
Mario Schraepen
Pieter Van Everdingen
Laurens Vandencruysse
Stijn Debie
David Van den Brande
Mehdi Akbari
Christophe Cop
Arne Van Der Stuyft

Morning workshops: Second stations

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Roadmapping

Approach road mapping session



Objective: identify **actions** to be taken in the upcoming 2 years in the field of interoperable personal data spaces. The actions should be an answer on the questions:

- What are you as an expert/organisation in this domain going to do anyway?
- What should someone else in this domain do?

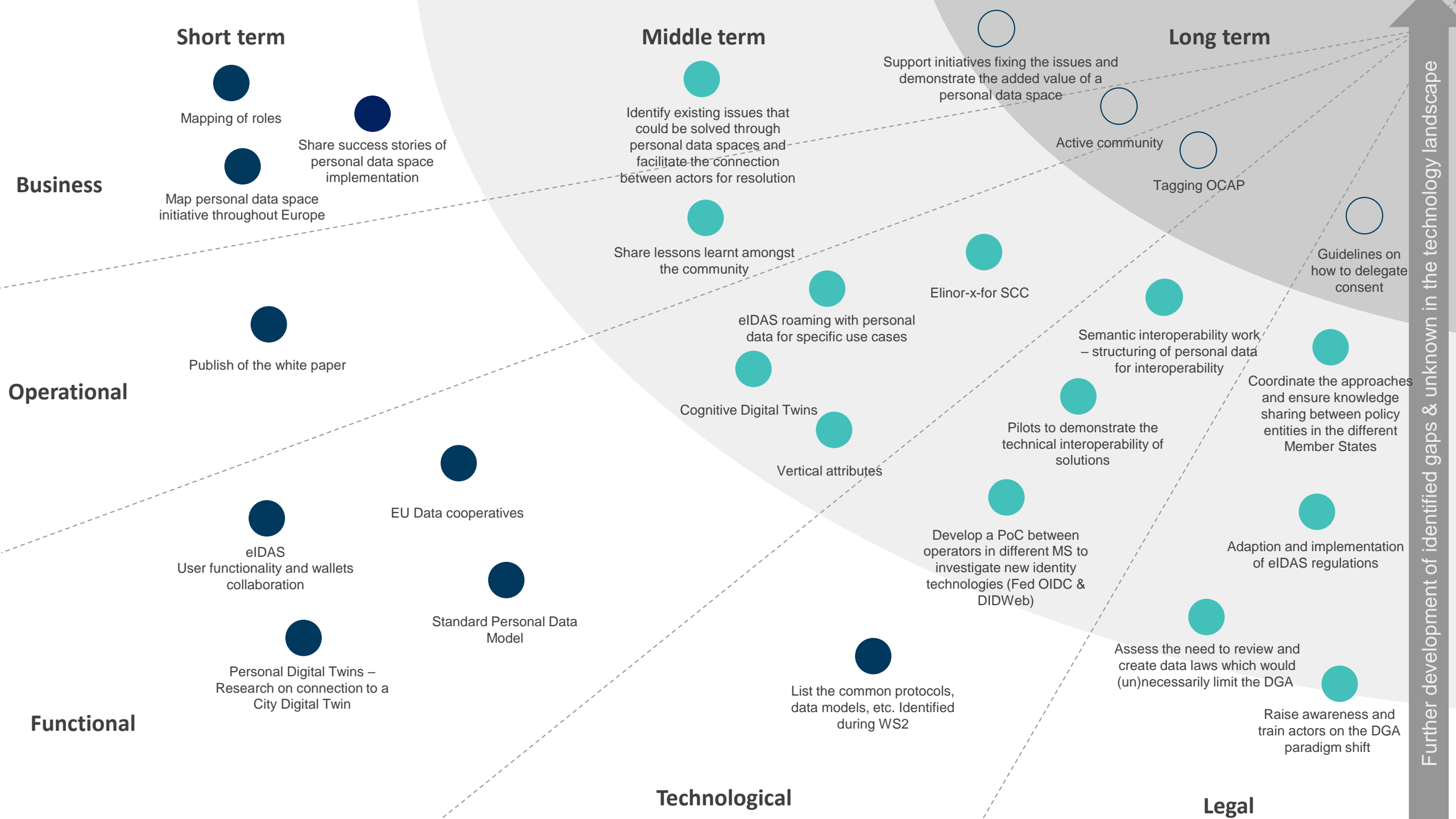


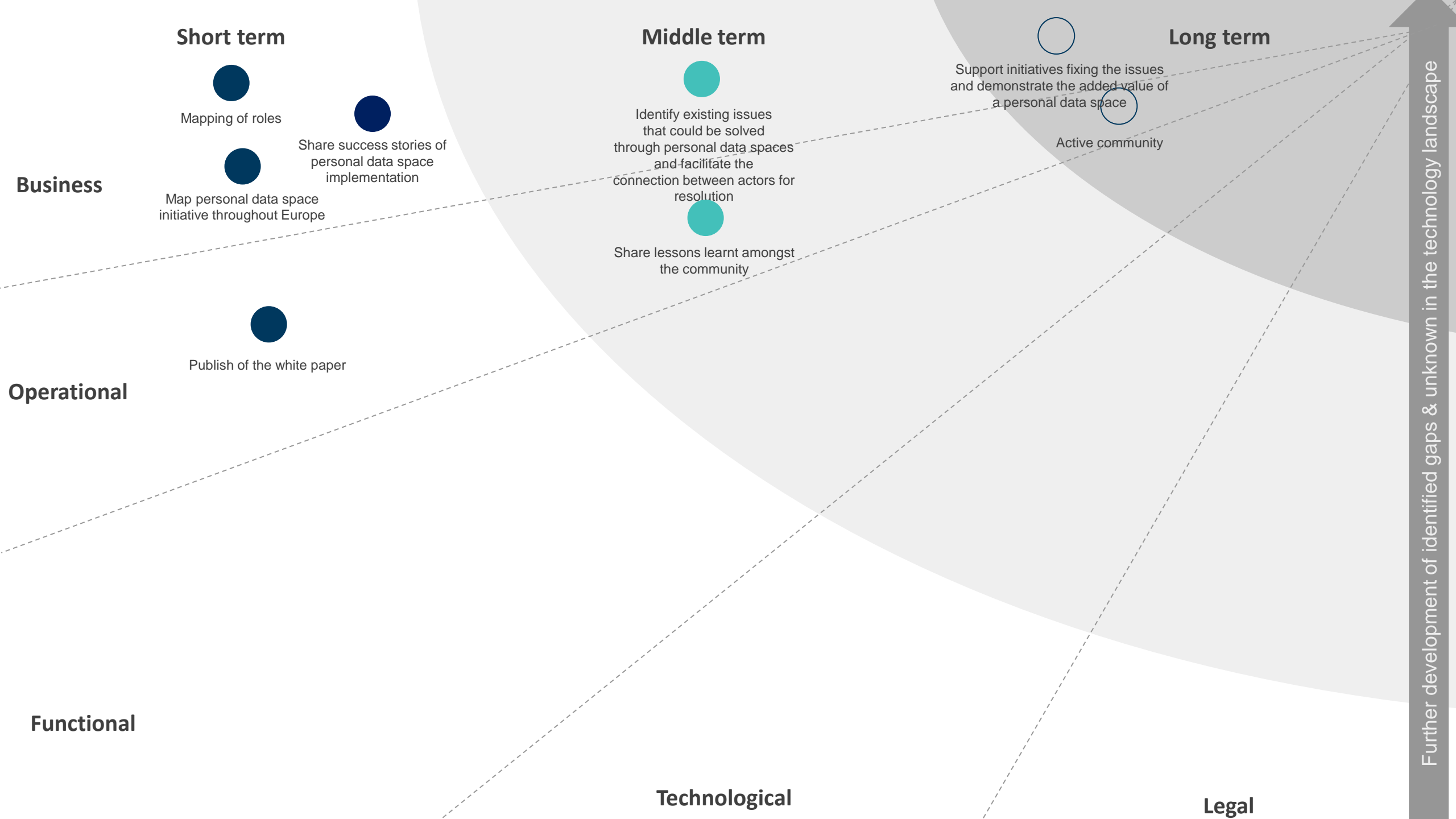
Guidelines:

- The actions will be categorised against the BLOFT framework of DSSC
- You are free to join a dedicated session
- Sessions will build on (the) previous session(s)

Agenda road mapping session

Activity	Time
Pitches about the pre-identified actions	14:00 – 14:30
Dividing the group in 4-5	14:30 – 14:35
First session	14:35 – 15:10
Second session	15:10 – 15:45
Third session	15:45 – 16:15
Break	16:15 – 16:30
Plenary session to validate the main actions identified	16:30 – 16:45





Short term



Mapping of roles



Share success stories of personal data space implementation



Map personal data space initiative throughout Europe



Publish of the white paper

Middle term



Identify existing issues that could be solved through personal data spaces and facilitate the connection between actors for resolution



Share lessons learnt amongst the community

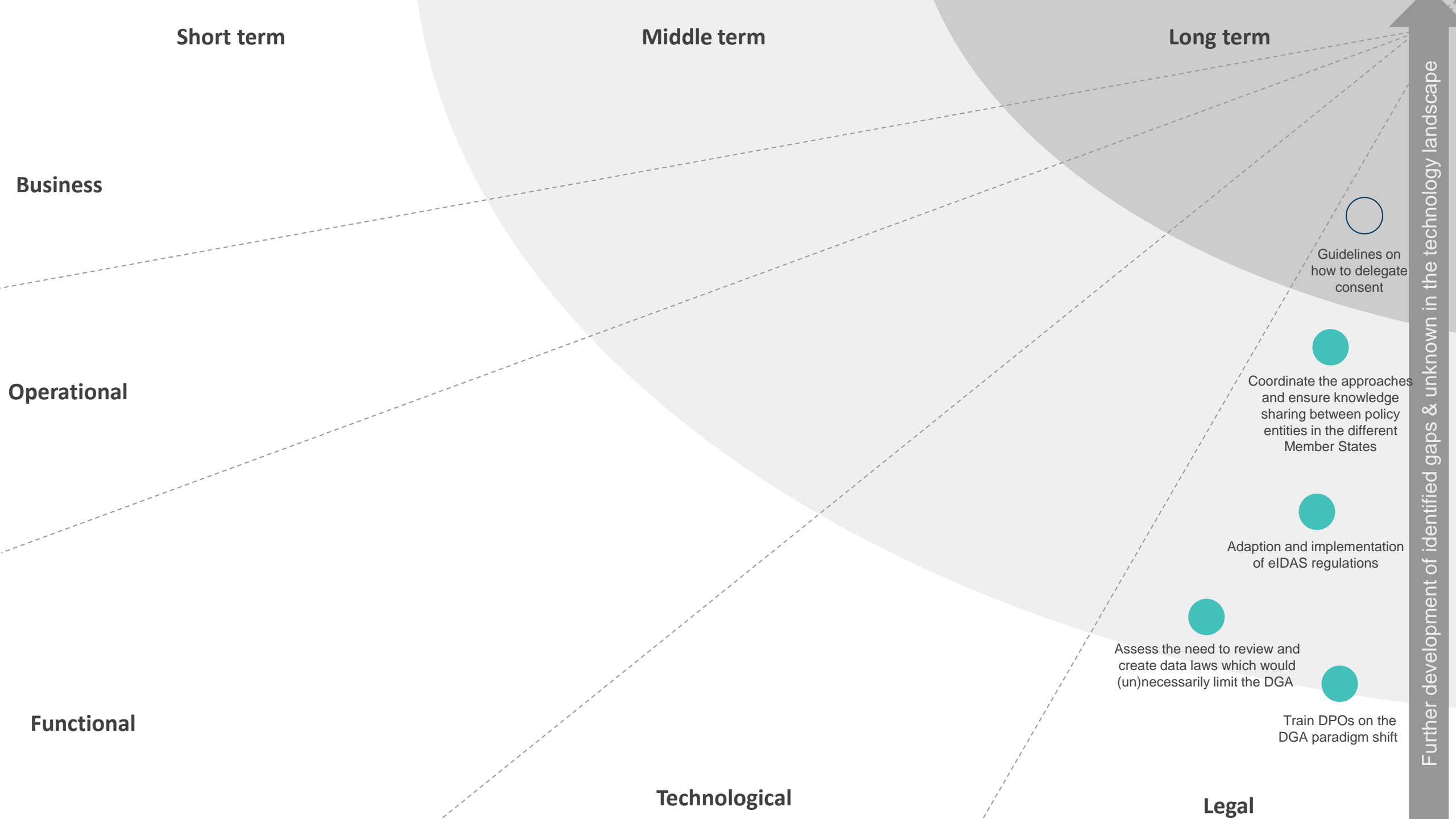


Support initiatives fixing the issues and demonstrate the added value of a personal data space



Active community

Further development of identified gaps & unknown in the technology landscape



Short term

Middle term

Long term

Business

Operational

Functional

eIDAS
User functionality and wallets
collaboration

Personal Digital Twins –
Research on connection to a
City Digital Twin

EU Data cooperatives

Standard Personal Data
Model

Cognitive Digital Twins

eIDAS roaming with personal
data for specific use cases

Vertical attributes

List the common protocols,
data models, etc. Identified
during WS2

Elinor-x-for SCC

Develop a PoC between
operators in different MS to
investigate new identity
technologies (Fed OIDC &
DIDWeb)

Pilots to demonstrate the
technical interoperability of
solutions

Semantic interoperability work
– structuring of personal data
for interoperability

Tagging OCAP

Further development of identified gaps & unknown in the technology landscape

Technological

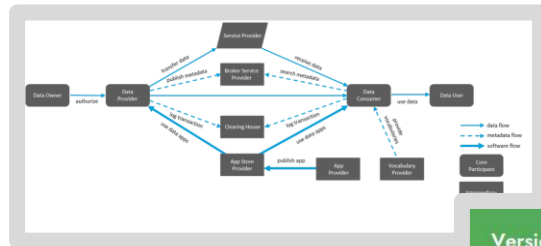
Challenges in (personal) data spaces

➤ Overcoming the ecosystem interoperability hurdles



EU legal framework(s) / roles

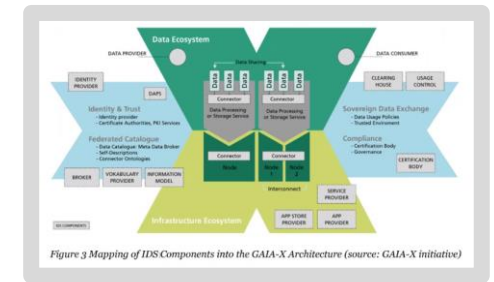
Data Governance Act, Data Act, GDPR, ...



IDSA roles



MyData roles



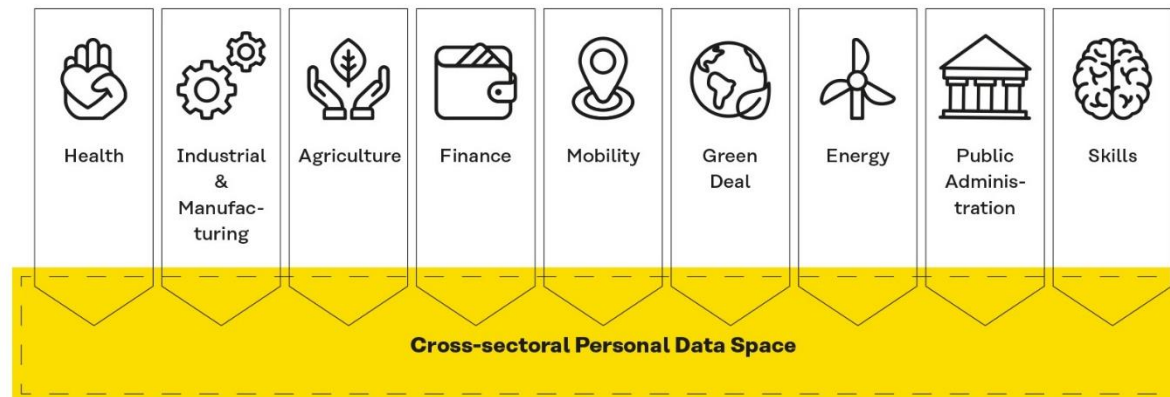
GAIA-X roles

Objective of the roles' vocabulary



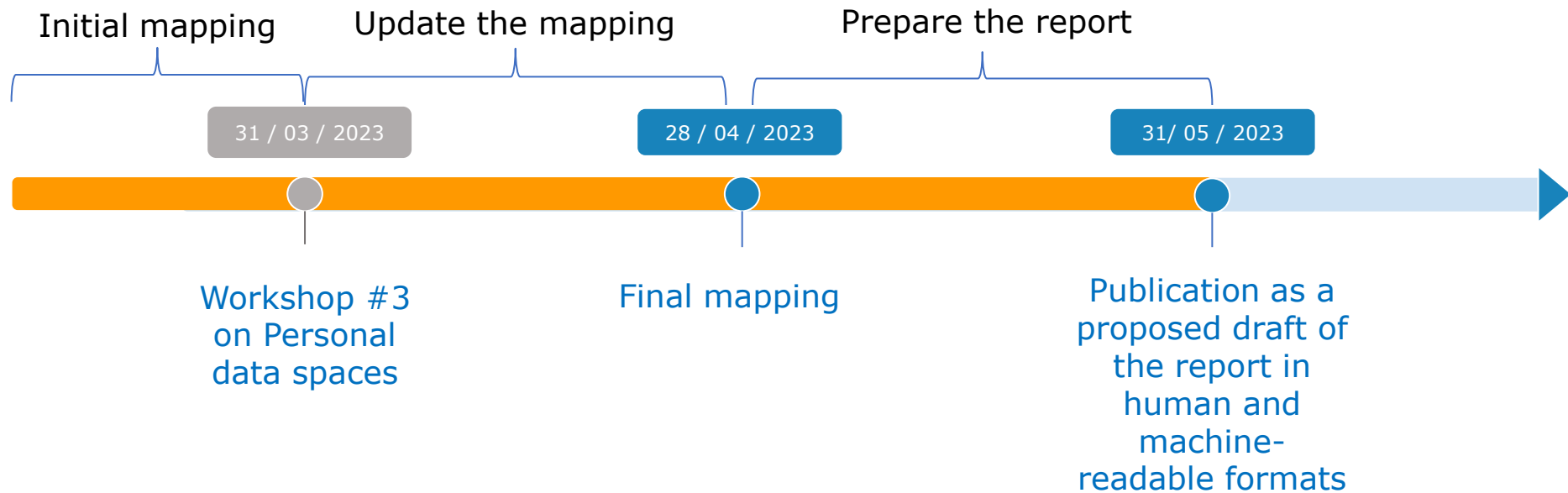
Ease the exchanges and agreements reached in implementing cross-sectoral (personal) data spaces by proposing a first common view^(*) around the roles and how these roles interact (in transactions).

^(*) this view focusses on the roles which raise interoperability across existing frameworks including IDSA, GAIA-X, MyData (...) and their link with the EU legal frameworks.



Timeline & approach

- Start from the existing frameworks and a mapping initiative in Flanders.
> *Identify the gaps and overlaps between the existing specifications*
- Propose a short human and machine-readable report compiling the results on which the community could further build.



Call to action



What do we expect from you?

- Which **vocabularies and/or frameworks** are you applying?
Share your sources with us!
- What should we be able to solve with this specification?
Share your use cases!



For all these points, please contact arne.van.der.stuyft@pwc.com

Summary & next steps

Next steps



Finalise the white paper and the roadmap based on the inputs gathered today



Circulate the white paper (for public review)

Workshop series



Another event upcoming, the [First International Workshop on Semantics in Dataspaces](#) on April 30 / May 01, 2023.



Thank you



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innovation ∞ govtech ∞ community

Stay in touch



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