



Simpl Programme

e-IRG Session III: EU Data Spaces and EOSC

25/06/2025

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DG CNECT E2

What is Simpl?

open-source means built-in trust & security, flexibility to deploy, simplicity to customise

middleware are software suites that enable applications and databases to work seamlessly together and provide a flawless user experience

Simpl is the **open-source** smart **middleware** that enables **cloud-to-edge federations** and **all major data initiatives** funded by the European Commission

all major data initiatives, in particular the development of **Common European Data Spaces** modular and interoperable way.

cloud-to-edge federations put together resources across cloud and edge computing environments as a cohesive system, creating a seamless integrated infrastructure that combines the strength of both cloud and edge computing.

European Single Market

Data legislation

- Data Act
- Data Governance Act
- Open data directive
- GDPR
- NIIS Directive

Common European Data Spaces

- Health
- Industrial & Manufact.
- Agriculture
- Finance
- Mobility
- Green Deal
- Energy
- Public Admin.
- Skills
- EOSC
- Tourism
- Cultural heritage
- Media
- Language

High Value Datasets from public sector

European Data Innovation Board

- Facilitate the sharing of best practices
- Prioritisation of cross-sectoral interoperability standards

Data Spaces Support Centre

- Development of blueprint, glossary, etc.
- Support of data space projects

Technical infrastructure

- Standards
- Digital identity (eIDAS)
- Smart Middleware solutions (Simpl)**
- High-Performance Computing
- Testing and Experimentation Facilities

Simpl is made of three products

the open-source smart middleware itself

Simpl-Open



playground environment for Simpl-Open
+
interoperability test for existing data spaces

Simpl-Labs

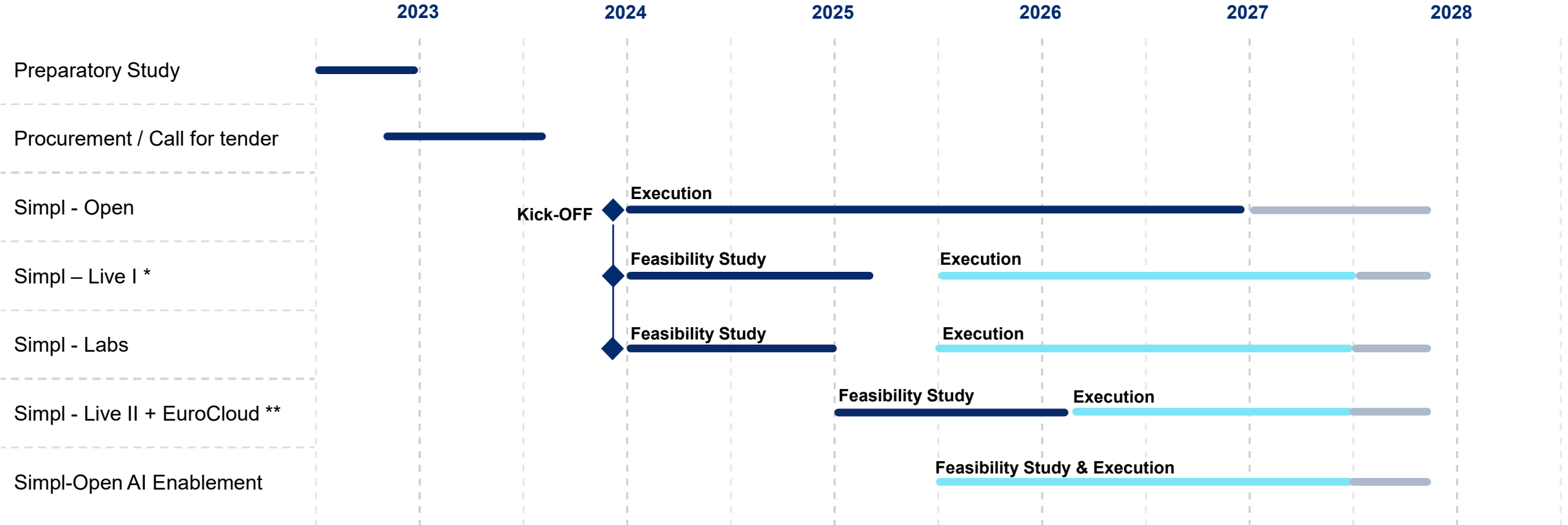
instances of Simpl-Open for common European data spaces

Simpl-Live

The Simpl Programme Roadmap

Simpl-Open, Simpl-Live, and Simpl-Labs

- Committed scope
- Forthcoming - Implementation of Simpl Live/Labs; Simpl-Live Feasibility Studies for new data space initiatives
- Potential next step still to be validated



* Data spaces included: PPDS, EHDS2, LDS, EOSC, DestinE, SCDS

** Data spaces included: CEADS, GDDS, CEMDS, CEEDS





Contractors

Sovereign-X

EVIDEN

Capgemini

aruba
CLOUD

IONOS



COSMOTE
GLOBAL SOLUTIONS

ENGINEERING
THE DIGITAL TRANSFORMATION COMPANY

InfrateX

sopra  steria

NTT DATA

Programme Support
Office (quality assessment)

indra

Simpl-Open is the core open-source software

Simpl-Open

Simpl-Open

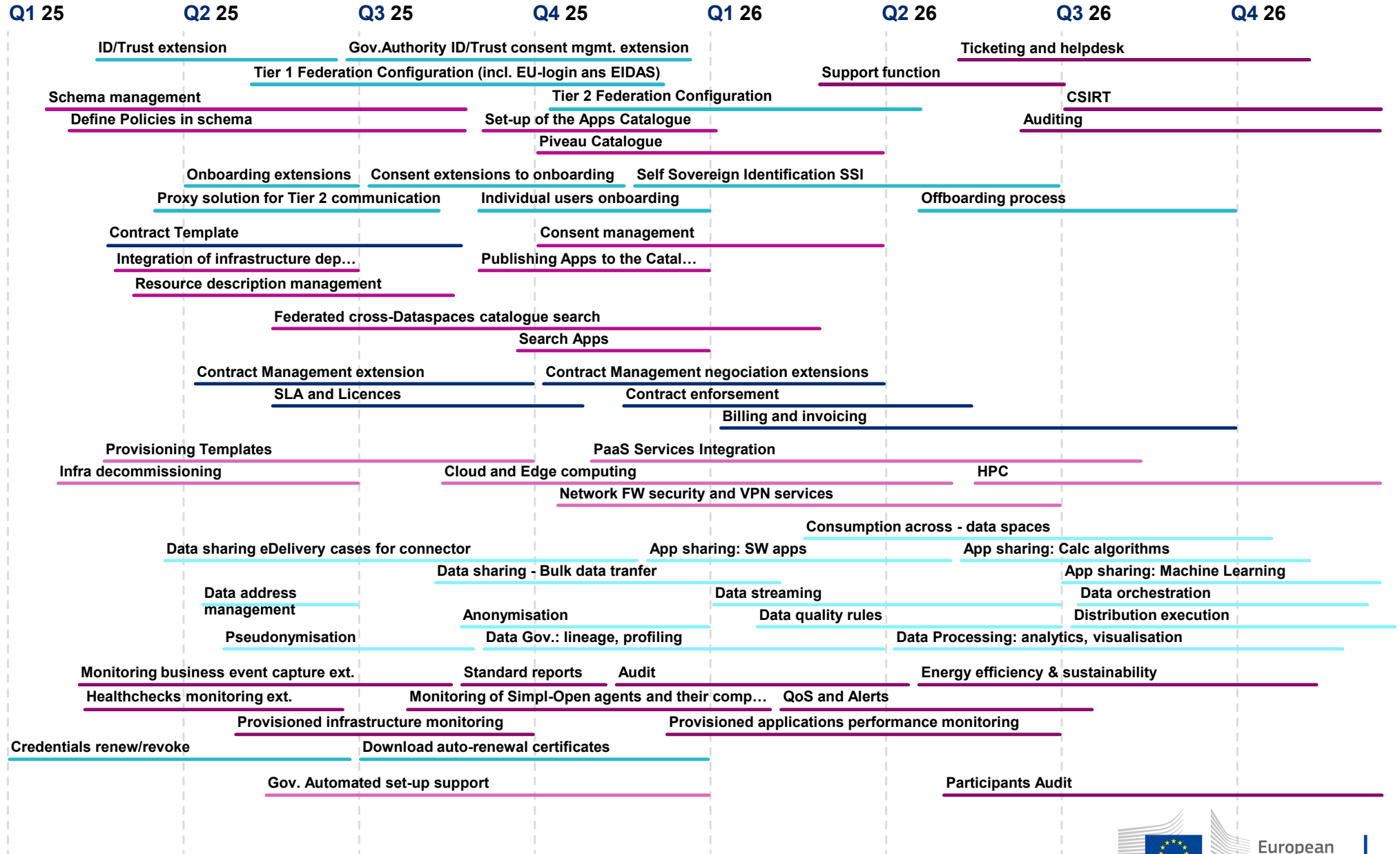
- Open-source
- Middleware
- Cloud to edge federations
- Common engine behind data spaces



- Minimum Viable Product (MVP) is available since January 2025
- Stakeholder-driven roadmap of developments for 2025-2026
- September 2025: new contract for AI & HPC enablement
- Updated Architecture documentation & installation guide

Simpl-Open roadmap 2025-26

● Admin & Monitoring
 ● Data
 ● Infrastructure
 ● Contract & Billing
 ● IAA
 ● Catalogue & Connector



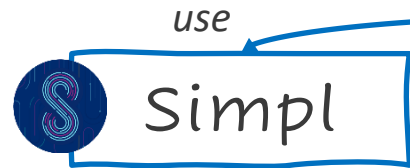
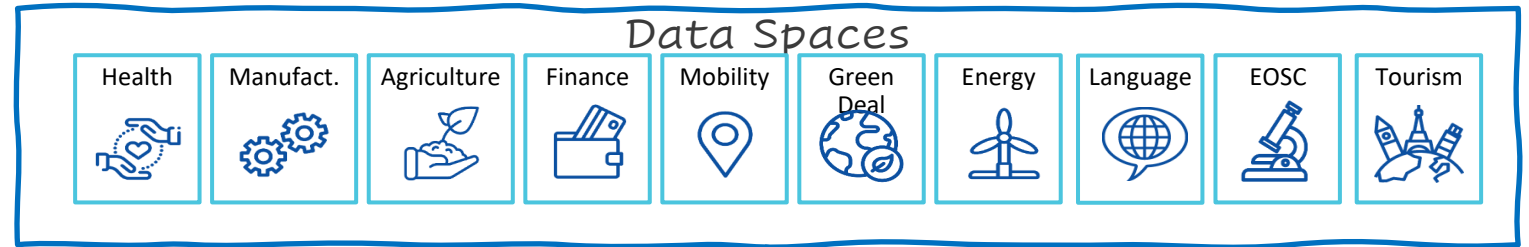
Simpl-Open – AI enablement, AI factories and DOME integration

1) New Simpl-Open AI and ML capabilities

Simpl-open AI and ML services:

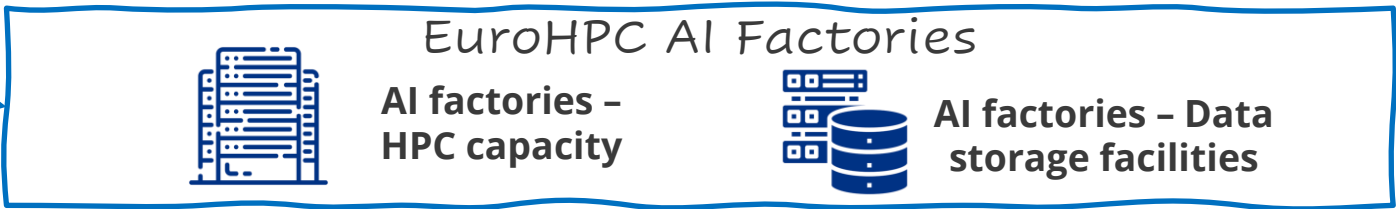
Extensions to PaaS services ML provisioning.

New layer of **AI services** to be added Simpl-open, as **built-in AI services for Data spaces**.



Simpl as an enabler for data spaces and other initiatives to access AI factories resources.

and gives access to



Simpl-open Infrastructure connectors to connect to **AI Factories using EuroHPC federation services**

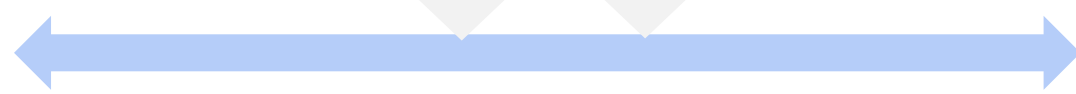
Simpl-open Data services to **make use of Data facilities and data services provided by AI Factories**

2) Simpl and DOME Marketplace catalogue connection



Availability of **DOME products in Simpl-open catalogues**

New **Simpl AI services published in DOME catalogues**



DOME
(Distributed Open Marketplace for Europe)





Live

Simpl-Live

Supporting data spaces with Simpl

Simpl-Live are instances of Simpl-Open deployed for specific data spaces

Simpl-Live

Simpl-Live

- **distinct instances** of Simpl-Open software stack
- deployed for **specific sectoral data spaces/ initiatives**

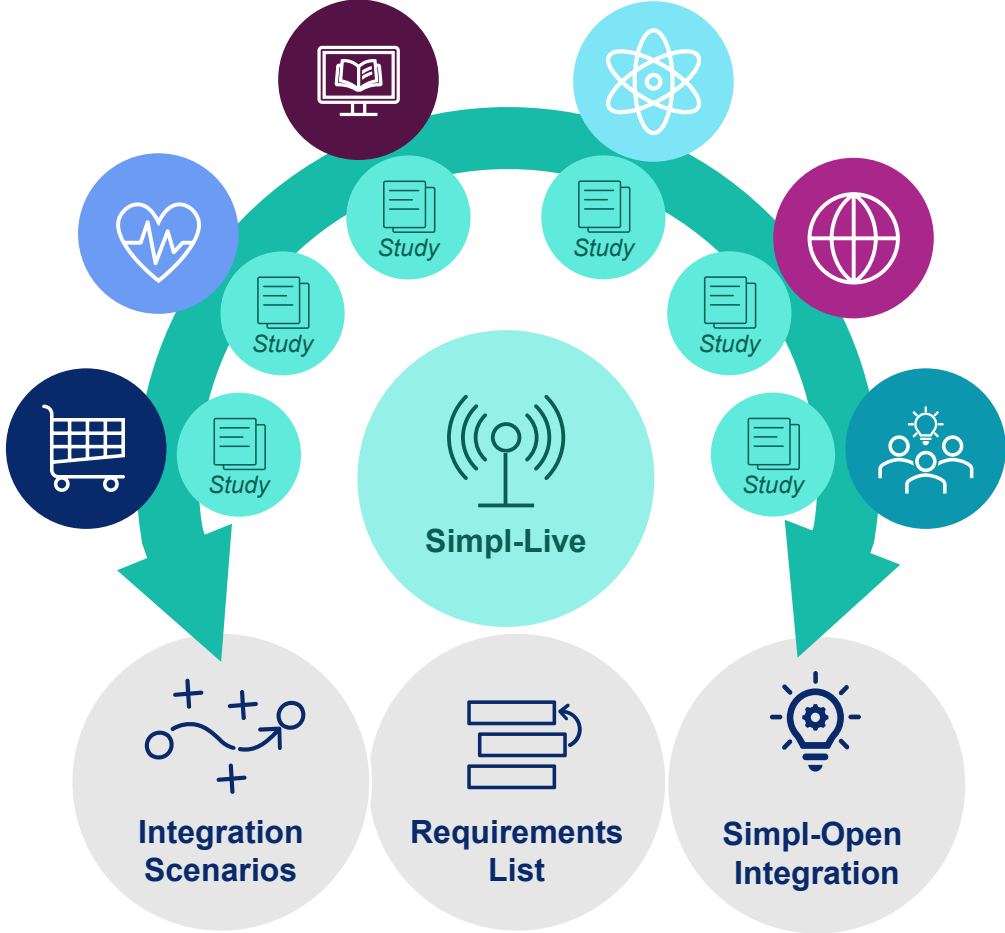
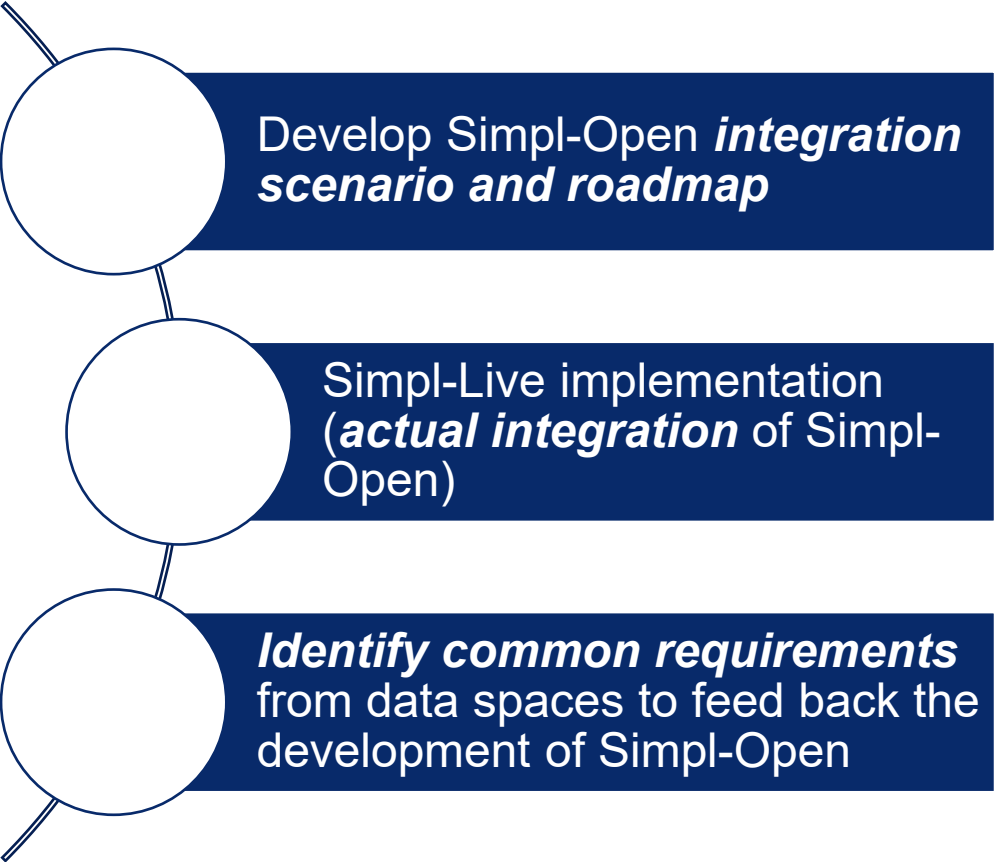


- 1st Feasibility Studies are over.

- In Q3 2025: launch the implementation contract.

- 2nd Feasibility Studies are on-going, including EuroCloud with 10 Member States

Simpl-Live objectives



Simpl-Live are instances of Simpl-Open deployed for specific data spaces


Simpl-Live

- **distinct instances** of Simpl-Open
- deployed for **specific sectoral data spaces/ initiatives**



 **Public Procurement Data Space (PPDS)**


 **European Open Science Cloud (EOSC)**

 **Destination Earth (DestinE)**

 **Energy Data Space**


 **European Mobility Data Space**

 **EuroCloud initiative**

 **Language Data Space (LDS)**

 **Smart Communities Data Space (SCDS)**

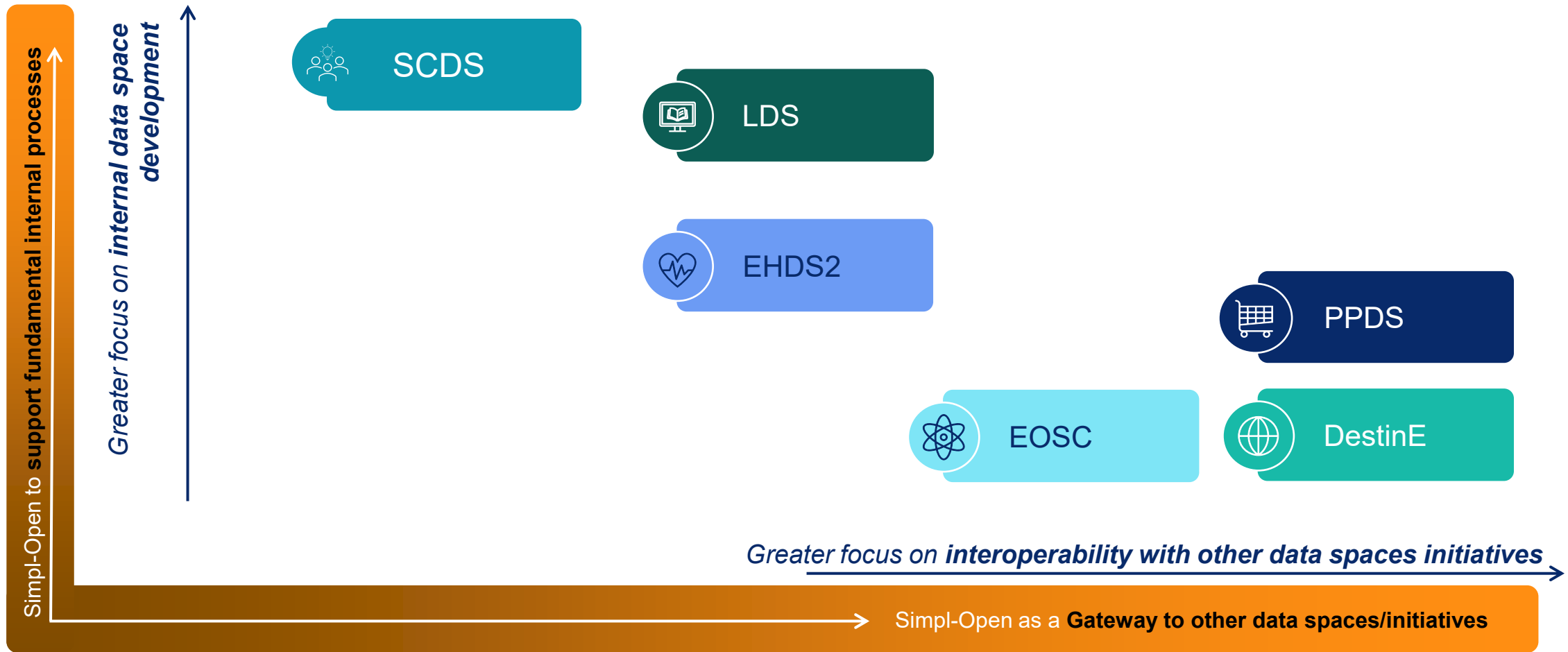
 **Agriculture Data Space**

 **Green Deal Data Space**

 **European Health Data Space of Secondary Data (EHDS2)**

Positioning of the data spaces/initiatives on Simpl-Open adoption*

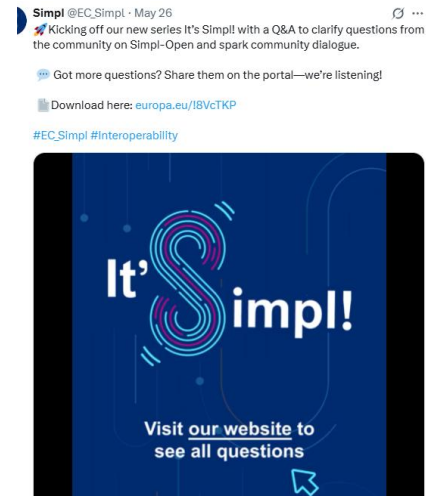
Findings of the Simpl-Live Feasibility Studies 2024



* The integration approach may be subject to adjustments during the initial phase of Simpl-Live implementations, in alignment with the respective data space initiatives.

Simpl's next steps

- Webinar on installation of Simp-Open (1st July);
- It's Simpl social media series;
- Launch of Simpl newsletter by mid July;
- Annual event 2026, Brussels



Get involved and participate

It's Simpl!



Webinars & Workshops

Join technical and business sessions, online and in person.



Website

Visit our website for Simpl documentation, requirements and latest news.



Social Media

Join and engage with our growing community!



Forum

Keep a look out for Simpl's forum launch! Coming soon!



Surveys

Help us improve!



Code Repository

Check out and review the code!



Scan me for more information about Simpl

