



European Open Science Cloud (EOSC)

EOSC platform and related EU infrastructure initiatives

Tobias Wiesenthal

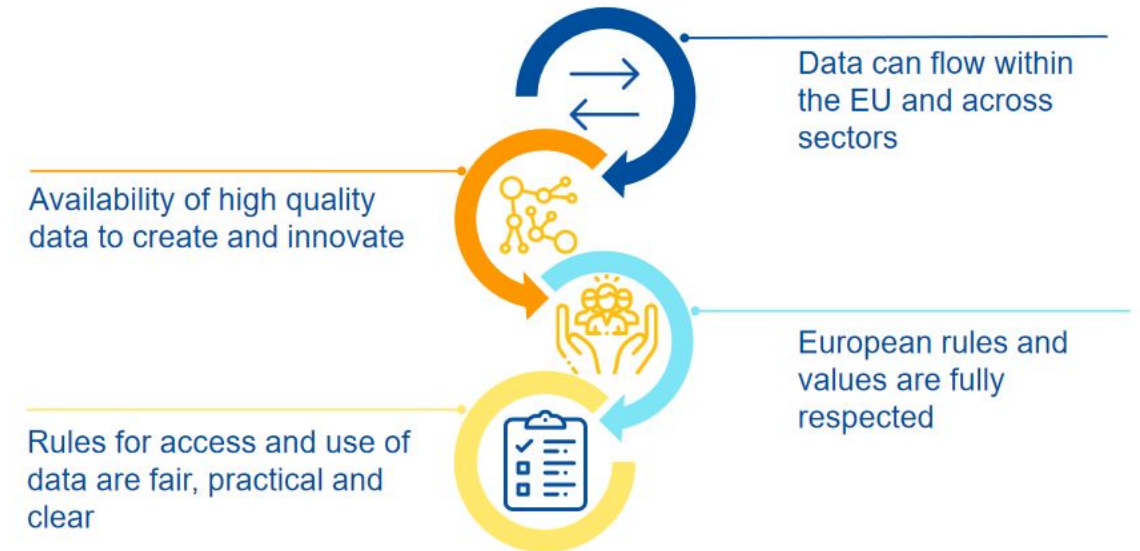
Deputy Head of Unit

DG CNECT C.1

EOSC in the European Data Strategy

*“**EOSC** is the basis for a science, research and innovation data space that will bring together data resulting from research and deployment programmes and will be connected and fully articulated with the sectoral data spaces.”*
(European Data Strategy, COM(2020) 66 final)

A common European data space, a single market for data



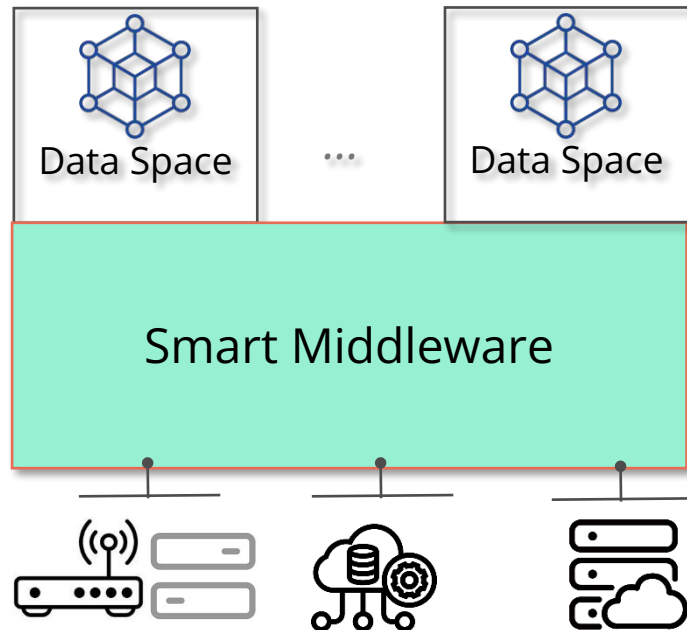
As part of the data strategy, EOSC will provide a data space for science, research and innovation.

This will support research and deployment projects and link with sectorial data spaces.

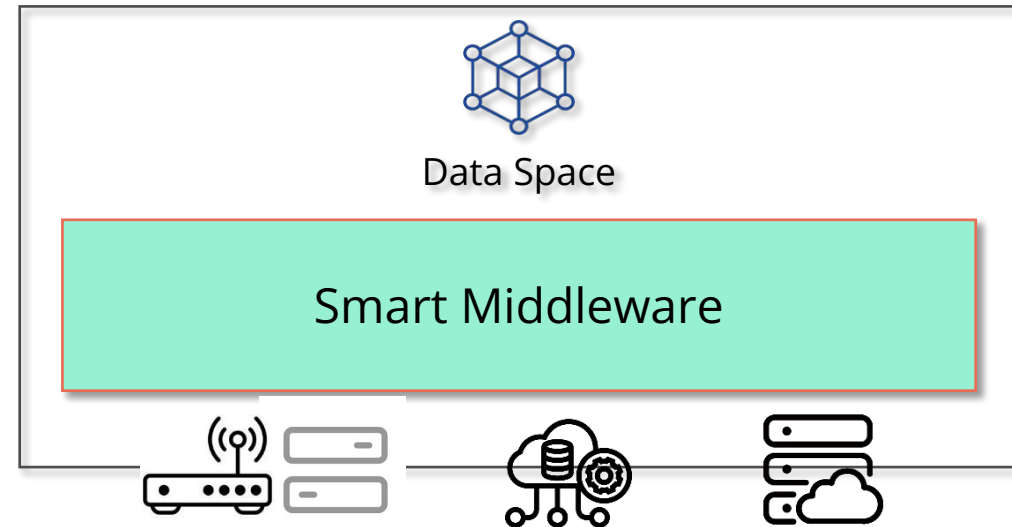
Smart Middleware to support Data Spaces

Smart Middleware (SIMPL) will be a **software stack** that provides **common services and capabilities** to **Data Spaces** on top of what is offered by the operating systems of **Edge and Cloud computing infrastructures**

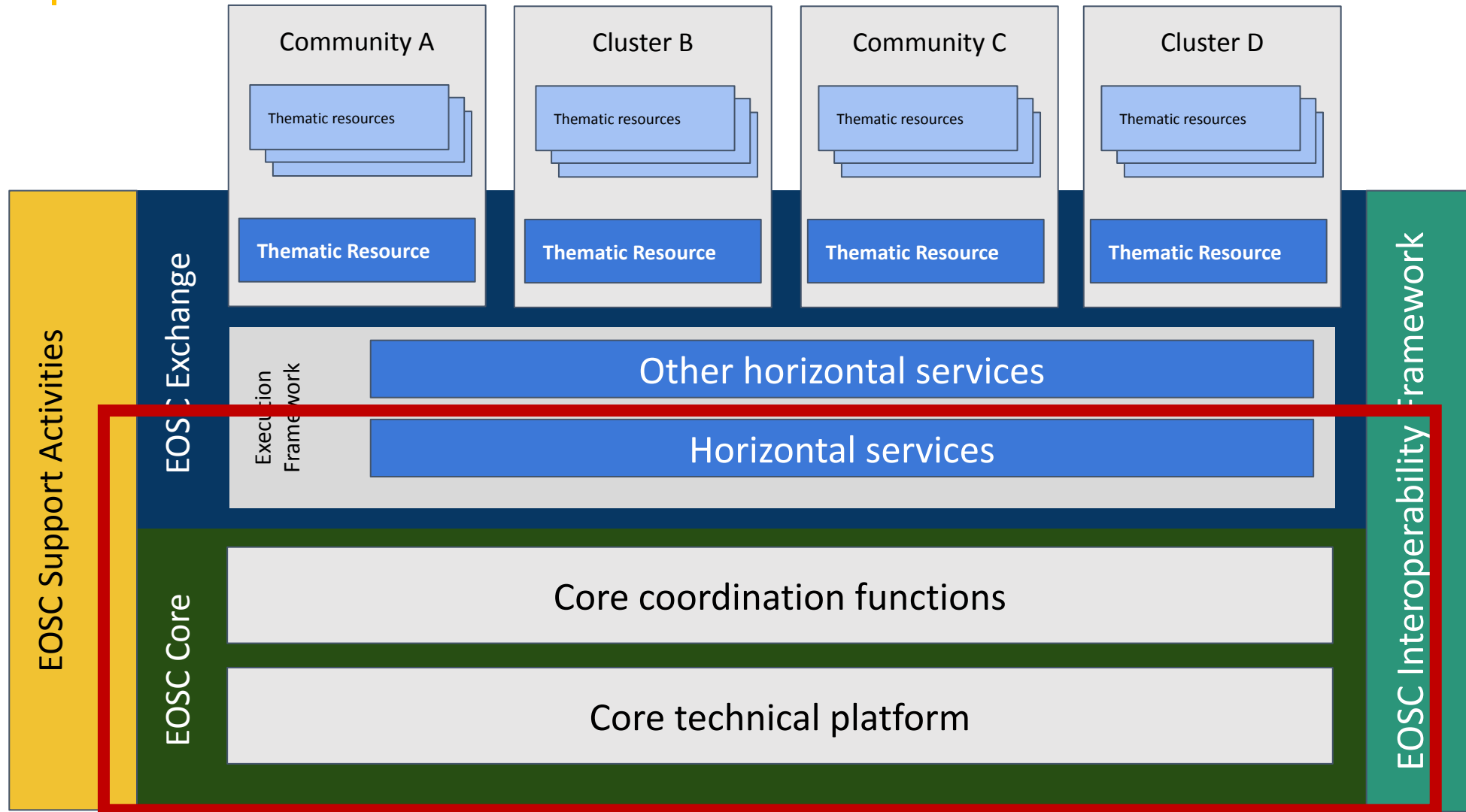
Smart Middleware among data spaces



Smart Middleware within a data space



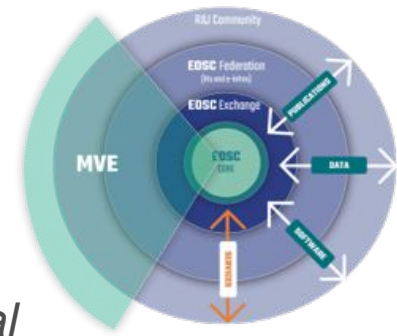
Scope of the EOSC Procurement Action



Input from the EOSC Future project
public deliverables
<https://eoscfuture.eu/library/>

Scope of the EOSC
Procurement Action

EOSC Procurement Action



Factsheet

- **Funding programme:** Horizon Europe RI Work Programme 2021-22
- **Form of funding:** Procurement
- **Type of action:** Public procurement
- **Indicative timetable:** Fourth quarter of 2022
- **Indicative budget:** EUR 35.00 million
- **Indicative contract duration:** 36 months

Scope

This action should build and deploy a fully operational enabling infrastructure for EOSC, providing access to a rich portfolio of FAIR data and professional quality FAIR services in all relevant domains from data handling to computing, processing, analysis and storing.

May 4th, 2022

Prior Information Notice published in TED (Official Journal of the EU)
<https://ted.europa.eu/udl?uri=TED:NOTICE:234660-2022:TEXT:EN:HTML>

May 31st and June 9th 2022

European Commission organized two consecutive webinars for the European Open Science Cloud procurement's preliminary market consultation
<https://digital-strategy.ec.europa.eu/en/news/open-market-consultation-european-open-science-cloud-public-procurement-action>

August 5th, 2022

The stakeholders and open market consultation exercise was finalised.

Destination Earth (DestinE)



- **Flagship initiative of the Commission** addressing the twin green and digital challenge
- **Objective:** An interactive and highly reliable knowledge generation system to support decision-making and generate insights, to enhance our ability to anticipate environmental disasters and their resultant socio-economic crises for a sustainable future
- Strategic partnerships with ESA - ECMWF - EUMETSAT
- Involvement of the EU industry; important R&I activities to support evolution of DestinE
- Funding for Phase I: **M€ 150** from **EU's Digital Europe Programme**, **M€ 55** from **Horizon Europe**
- **FAIR** principles by design

2021-2024

- Operational cloud-based platform
- First two digital twins

2024-2027

Platform integrates the next operational digital twins and offers services to public sector users

2027-2030

Towards a full “digital twin of the Earth” through a convergence of multiple digital twins on the platform

Thank you



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