



EOSC Nodes model

Dejan Dvorsek



EUROPEAN OPEN
SCIENCE CLOUD

What is EOSC



A process

- Accelerate Open Science, FAIR data management and use of digital methods and services
- Stimulate co-operation in science and research, new insights and innovations, higher research productivity and improved reproducibility in science.

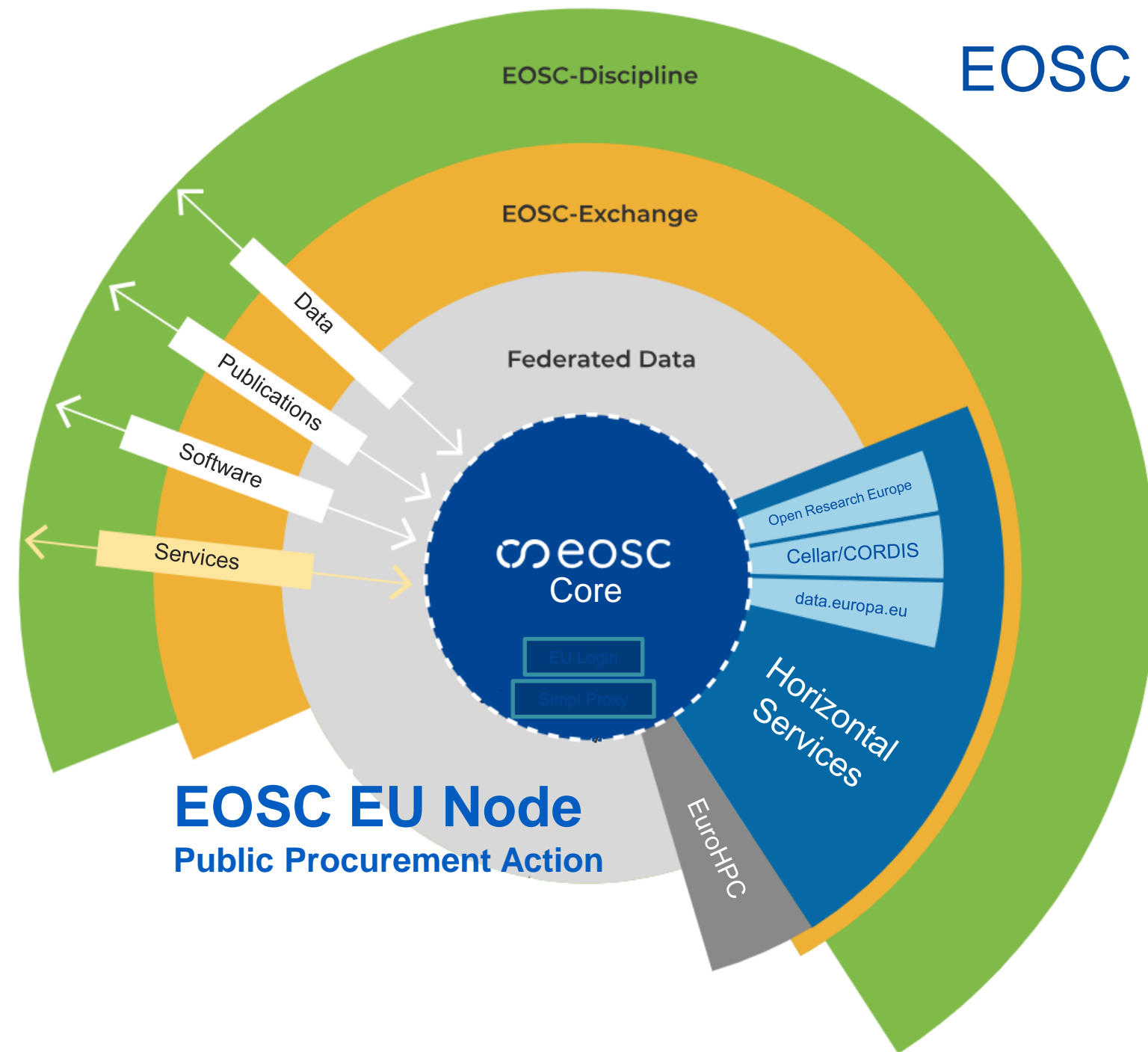
An open, trusted, federation of infrastructure

- Access existing Research Infrastructures in Europe;
- Enable circa 2 million European researchers to store, share, process, analyze, and reuse research digital objects (e.g. data, publications and software)

An evolving ecosystem

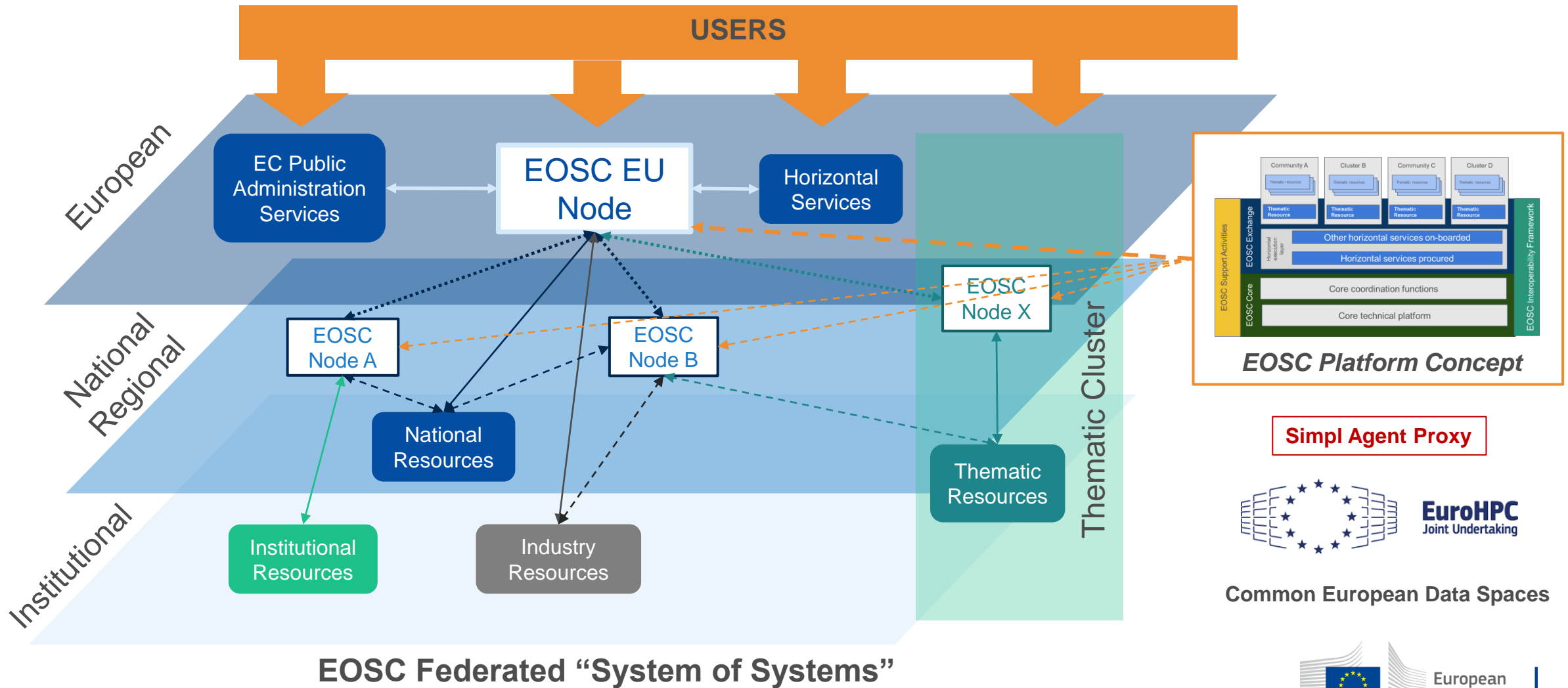
- Bringing together the European Commission, the governments and the many R&I stakeholders involved in the European Research Area
- Co-created across European, national, and institutional levels

EOSC EU Node Value Proposition



- **Facilitate** the creation of the “*Web of FAIR data and interoperable services*” (aka. EOSC Federation) under the Open Science Policy
- **Put** a “*seed in the ground*” by operationalizing the first recognised EOSC Node at the European level for the initial 3 years
- **Offer** “*core services*” for scientific research infrastructures to federate (single-sign-on, catalogues, knowledge graph, application workflow, monitoring, accounting, helpdesk) and common “*horizontal services*” for end-users to benefit from (compute, containers, data transfer, notebooks, file sharing, open research data)
- **Define** the *pathway and blueprint* (EOSC Interoperability Framework) for other potential EOSC Node operators to join the federation

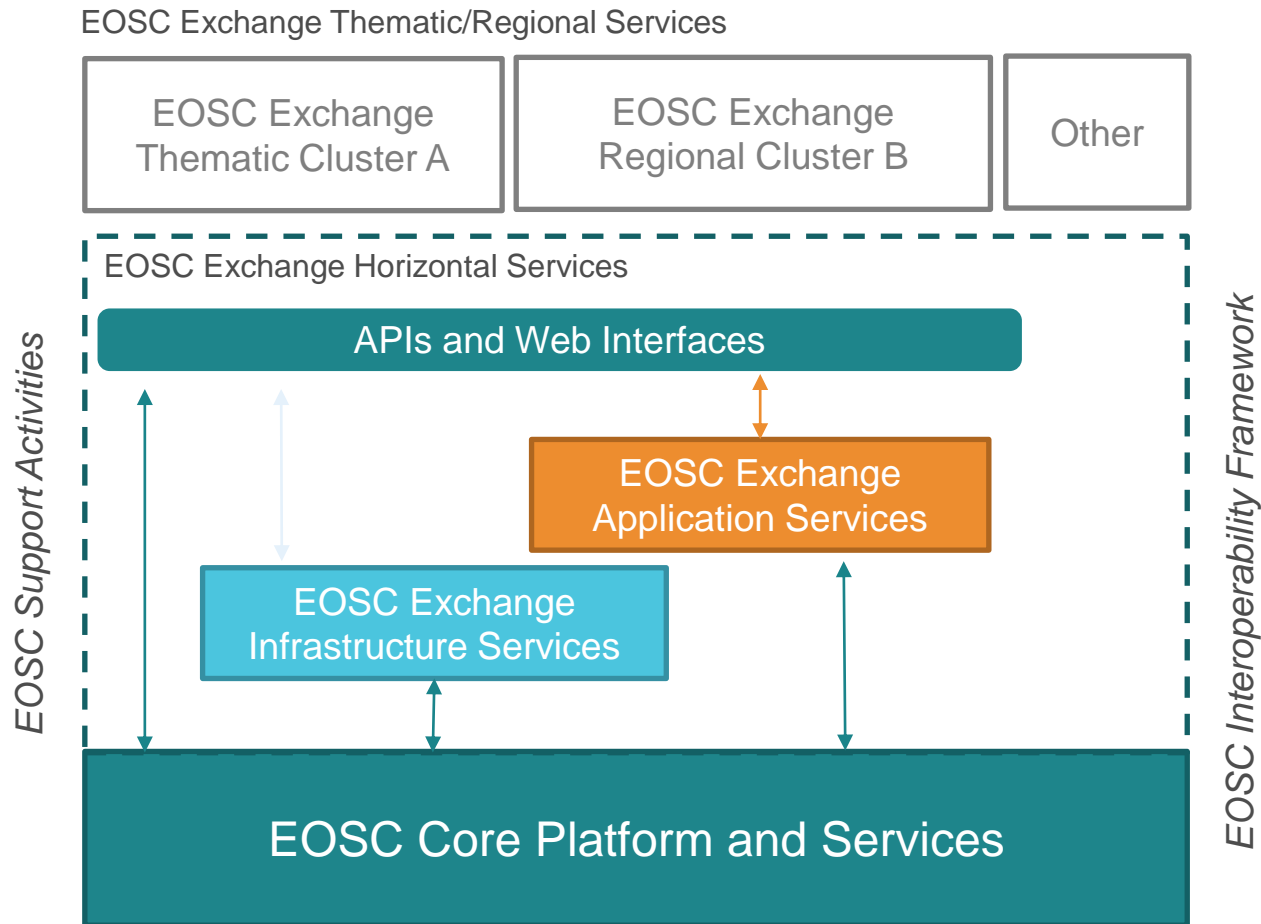
EOSC EU Node – Federation Approach



EOSC EU Node characteristics and features

- **European level multi-disciplinary and multi-national** scientific data/service portfolio for all research users (eduGAIN) and citizen scientists (EU Login/eIDAS)
- **For now, owned by the EC** and governed by the EOSC Tripartite Governance (EC, EOSC-A, MS/AC) Future ownership is under discussion.
- **Operated and maintained 24/7** by contracted third-parties (result of the EOSC Procurement Action) in production
- **SIMPL Agent proxy** to connect to other industrial Data Spaces
- **EuroHPC resources** may be offered to the EOSC Federation
- **Open concept: National, regional and/or thematic** service providers as well as autonomous EOSC Nodes can connect to the federation (established interoperability frameworks and policies)

Procurement Lot Structure



Procurement Lot Structure

- Lot 3** Managed Collaborative Data Platform, Interactive Data Analytics Platform and Visualization Services for the EOSC Exchange (Application Services)
- Lot 2** Managed Container Platform and Virtual Machine Services for the EOSC Exchange (Infrastructure Services)
- Lot 1** Managed Services for the Development, Integration, Deployment and Operations of the Federated EOSC Core

All together the awardees



EOSC EU Node

EXCHANGE



CORE



netcompany

intrasoft



Thank you



© European Union 2023

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](#) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Slide xx: [element concerned](#), source: [e.g. Fotolia.com](#); Slide xx: [element concerned](#), source: [e.g. iStock.com](#)