The Future of EOSC

- *Possible models of EOSC development*

Bertil Egger Beck
European Commission (DG RTD)   6 November 2023   I   EOSC National Tripartite Event Poland

Implementation of EOSC

EOSC phase 1: Preparatory	EOSC phase 2: Continued EOSC rollout	EOSC phase 3
2018 - 2020	**2021 – 2027 (2030)**	**Post-2027**

EOSC phase 1: Preparatory

Grants' approach in H2020

EOSC roadmap
by the EC

Interim EOSC Governance
(Commission, Member States - Associated Countries, experts from the research community)

EOSC phase 2: Continued EOSC rollout

Partnership approach in Horizon Europe

Strategic **R**esearch & **I**nnovation **A**genda (SRIA)
by the EOSC community

EOSC Tripartite Governance
(Commission, Member States - Associated Countries, EOSC Association)

EOSC phase 3

Trends (tbc)

- Renewed EOSC Tripartite collaboration
- Strengthened participation of the Member States
- Higher level of integration and synchronisation by the three Parties (at EU, national, Institutional levels)
- Flexibility matters as much as integration
- Indirect management by an external entity of some/all EOSC Tasks after 2027

⊗
- **Launch event in Vienna**
- 2nd EOSC Declaration (AT Presidency of the EU)

⊗
- **Assessment of EOSC Phase 1**
- 3rd EOSC Declaration (DE Presidency of the EU)

⊗
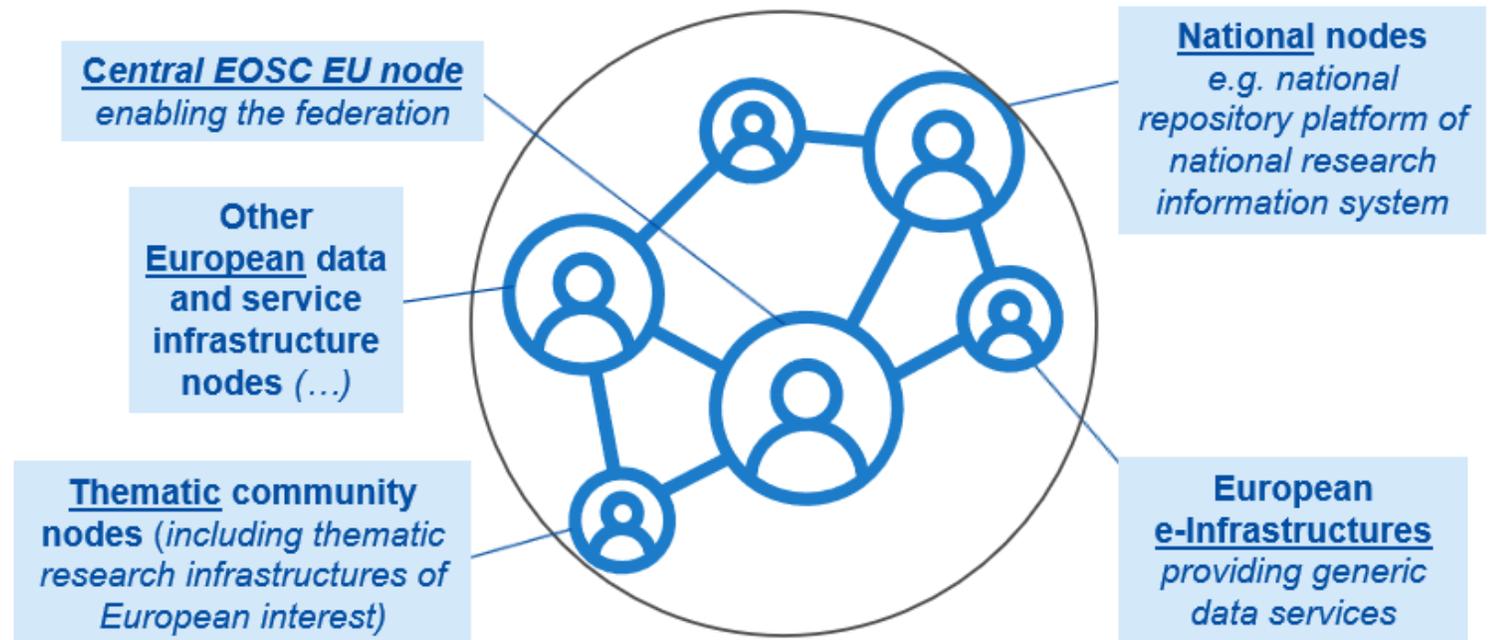- **Preparatory steps for EOSC post-2027** (ES Presidency of the EU)

New Challenge:
- Transitioning from prototyping to operation the EOSC infrastructure

Basic elements for the EOSC Federation

- The Authentication and Authorization Infrastructure
- The Policy framework on Persistent Identifiers
- The Interoperability Frameworks
- The common search and access engine
- Security Coordination
- Monitoring and accounting modules
- Rules of Participation
  (onboarding of services)
- Acceptable Use Policy
  (by all public users of the EC node)
- Access policy
  (centrally procured services)

Upcoming: The central EOSC EU node enabling the EOSC federation

Central EOSC EU node enabling the federation

Other European data and service infrastructure nodes *(…)*

Thematic community nodes *(including thematic research infrastructures of European interest)*

National nodes *e.g. national repository platform of national research information system*

European e-Infrastructures *providing generic data services*

The EOSC post-2027 reflection process

Steps undertaken by the Commission in 2023 to facilitate well-informed positions by the three Parties:

- Four information **webinars** organised in January 2023 documenting sustainability issues and existing governance models
- Characterisation of **EOSC tasks and features** for the post-2027 period
- Elaboration of **logical pathways** along key strategic questions
- EOSC Tripartite event on 24 May
  - ➢ 53 participants: 29 country representatives of the EOSC Steering Board, 13 participants of the EOSC Association and 11 participants from the European Commission
  - ➢ Review of existing scenarios and guidance on the next steps

Coming next:
- October: Detailed analysis of the preferred scenarios with check points with the EOSC Steering Board, its Policy sub-group and the Board of Directors of the EOSC Association
- End of October: Delivery to the three parties of the final version of the analysis document
- 28 November: EOSC Tripartite event in Madrid

EOSC 'helicopter view'

Main EOSC tasks for the future	Today (EOSC co-programmed partnership)	In the future?
Task 1: Deploying and operating the EOSC EU node (Core, Exchange, FAIR Data Federation)	- EC procurement « EOSC managed services »	EC - Entrusts another legal entity with budget implementation tasks, possibly in the context of a European partnership? or - Continues to manage directly grants and procurement actions, possibly in the context of a European partnership ?
Task 2: Maintaining and updating the EOSC EU node and expanding the EOSC federation (with elements that are close to the 'market')	N/A	
Task 3: Enabling a 'web of FAIR data and service' for science	- EU grants across HE - National & institutional additional activities	
Task 4: Develop, prototype and test new elements supporting the evolution of the EOSC Core and Exchange and the tools enabling the federation (focus on elements that can be made ready for the 'market')	- EC grants resulting from Calls defined in the RI Work Programme	What about combining these two approaches (depending on the tasks) ? What would be the right balance between procurement and grants ? (Irrespective of who is the granting / contracting authority)
Task 5: Enabling Open Science policies and the uptake of Open Science practices	- Tripartite Governance activities (including with support of EU grants)	

Additional Aspects Considered by Tripartite Governance

- Wish for a **more streamlined governance model after 2027**

- Need for a **higher level of integration and synchronisation** of activities

- **The governance should be able to engage the research infrastructures in Europe**

- **Need to develop a blueprint model matching EOSC specifics**

- **Direct participation of the Member States** shall be strengthened (pre-requisite to enable direct financial participation by the countries)

- **Flexibility matters as much as integration**. The future EOSC model should be able to adapt to different sizes of resourcing and to variable national investments over time.

- General interest for the scenarios where **an external entity** would be in charge of all (integrated scenario) or some (hybrid scenario) of the 5 main Tasks defined for EOSC Post-2027.

European Commission

Thank you

European Commission