



# EOSC – Strengthening Europe's Data Sovereignty

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Initiated in 2015; developed over ten years into a functioning research data infrastructure



Not a new system, but a **federation of existing European infrastructures**



Goal: **Seamless access** to data and services for all European researchers



Data and service providers retain ownership — a core principle underpinning **European data sovereignty**

# eosc EOOSC as a Social Infrastructure

...is the nerve centre that enables education, collaboration, and scientific productivity of vibrant and dynamic research communities across Europe.



# eosc EOOSC as a Technical Infrastructure

...serves as the backbone **enabling digital data management services** for research and innovation to operate reliably and efficiently across Europe.





- 121 applications to join EOSC; 13 Nodes selected for the first wave



- Expansion planned: ~100 Nodes expected in the federation



- EOSC ensures **interoperability, traceability, and open-science-based governance**



- Clear terms & conditions ensure that joining Nodes uphold **trustworthy, FAIR, and sovereign data management**



**European AI in Science Strategy:** AI research depends critically on access to high-quality, well-governed data

## EOSC



- provides a **trusted, transparent, and FAIR data environment**



- enables development of **trustworthy and transparent AI models and explainable AI**



- strengthens Europe's independence from non-European hyperscalers by encouraging the use of **European storage and compute capacities**



**EOSC ensures European data sovereignty** by keeping ownership with data providers and implementing shared governance



**EOSC provides a trustworthy data environment**, grounded in FAIR principles and open science



**EOSC builds resilience** through redundancy of data and services across multiple European locations



A truly **European infrastructure**, developed by European providers, serving European research and strategic autonomy

A network diagram consisting of various sized grey circles (nodes) connected by thin grey lines (edges) on a black background. The nodes are distributed across the frame, with some larger nodes and some smaller ones.

 eosC | Federation

**TOGETHER**

**WE MAKE IT HAPPEN**