eosc | DATA COMMONS

Services for inter- and cross-disciplinary data discovery, access, sharing and reuse
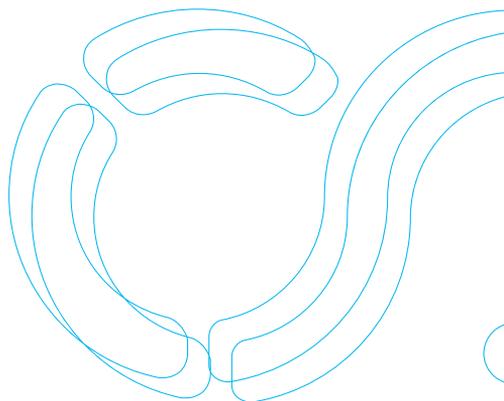
Building the European Research Commons

EOSC Data Commons is shaping the next generation of research data infrastructure for Europe. It fosters seamless access to high-quality, interoperable research data and services, and enables researchers across disciplines to collaborate, innovate and succeed.

- Discover and access data from multiple disciplines through a federated infrastructure.
- Share, preserve and reuse data with full support for the research lifecycle: discovery, analysis, preservation, and reuse.
- Increase FAIRness and reproducibility of research outputs.
- Leverages AI for discovery, with analytics led by communities and optionally supported by AI.

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Why It Matters

Research today generates exponential volumes of data. But with data siloed, heterogeneous, and often underused, valuable insights go untapped. The EOSC Data Commons addresses this by creating a trusted, federated ecosystem of data, tools and compute — across national boundaries and disciplines.

What We Are Building

Here are the main innovation areas:

- AI-enhanced metadata warehouse and discovery layer that integrates heterogeneous repository metadata, supports natural language searches, performs FAIRness assessments, and pairs datasets with suitable analytical tools (EOSC Matchmaker).
- Harmonised APIs, metadata specifications and automated deployment and execution of analyses across the compute continuum (EOSC Data Player)
- Validation through real-world use-cases from life sciences, social sciences, environment, physics and more, ensuring cross-disciplinary relevance.

We Want You

- Researchers looking for interoperable data and compute resources.
- Data repository managers and infrastructure providers interested in joining the federated ecosystem.
- Tool developers and analytics service providers seeking integration.
- Research organisations and policy-makers committed to open science, data reuse and FAIRness.

Our Partners

How To Get Involved

Visit our website:
www.eosc-data-commons.eu

- Test our services and give us feedback
- Connect with us to pilot your use case on the EOSC Data Commons infrastructure
- Subscribe to our newsletter for updates, events and collaboration opportunities