



# The EOSC EU Node

<https://open-science-cloud.ec.europa.eu/>

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# EOSC EU Node -Your Gateway to Open Science

**Open Science** is at the centre of European research policy aiming to make science more accessible, efficient, transparent and robust.

The **European Open Science Cloud** (EOSC) is an enabler of Open Science, and data-centric research in Europe a **federated** multi-disciplinary network of distributed **nodes** operating under a common framework offering a **consolidated** pan-European access mechanism to FAIR research data, publications, and services.



The **EOSC EU Node** is the first European-level gateway of the emerging EOSC Federation, made available to a wider research community by the European Commission.

<https://www.youtube.com/watch?v=67mirPt-FhY>

# Unique Features - New User Experience

- **Authentication, Authorization, Accounting (AAA)**
  - eduGAIN and EU Login (with eIDAS) integration
  - Policy-based Access Control (PBAC) retrieving user attributes from home IdP
  - Virtual Credits and Wallets (personal, group)
- **Contributor tiers (discoverable, onboarded, native)**
  - Resource Hub collecting 127 mil research objects from OpenAIRE, CORDIS, data.europa.eu, Software Heritage and more
  - Curation service for resource object owners
  - Recommendations, Favourites, Persistent Identifiers
- **Integrated User Space with Automated deployment workflows**
  - TOSCA templates into Virtual Machines and Kubernetes containers
  - Application and Data to Infrastructure
- **Monitoring and Helpdesk**
  - Availability dashboard and support for end-users



## Researchers

## Researchers

If you are a researcher or citizen scientist in Europe interested in collaborative, data-driven Open Science, the EOSC EU Node offers easy access to diverse data, publications, software, and services from across Europe's research networks.

- Discover, access and use **tens of millions** of scientific **publications, data** and **software**
- Find and access **services** and **tools** from research infrastructures, technology providers, leading scientific clusters and more.
- **Use integrated** compute, storage as well as interactive collaboration tools, applications and services free at the point of use.
- Create **teams** and **work together** putting Open Science principles in practice

The collage consists of five overlapping screenshots from digital resource platforms:

- Top Left:** A 'Resource hub' search interface. It features a search bar at the top and a horizontal navigation menu with categories: All resources, Publications, Data, Software, Other Products, Services, Data Sources, Training, Interoperability Guidelines, and Tools. Below the menu, a 'Recommended for you:' section displays five 'PUBLICATION' cards with titles like 'Current Perspectives and Progress in Preoperative Portal Vein...' and 'Choc-Tadalafi Fusion: Unlocking Solubility and Taste Harmony with...'. A sidebar on the left allows filtering by 'Access right' (Closed, Embargo, Open access, Restricted), 'Scientific domain', and 'Document type'. The main content area shows 'Showing 1 to 20 of 47,345,005 resources'.
- Top Right:** A complex bioinformatics visualization. It displays multiple genomic tracks, including a sequence alignment track, a coverage track, and a heatmap. The interface includes various toolbars for navigation and analysis.
- Middle Left:** A search results page for a specific article titled 'The wxacO gene of Xantho lipopolysaccharide biosyn virulence'. The page shows the article's title, a brief description, and options to view or download the document.
- Middle Right:** A Jupyter Notebook interface. It shows a file browser on the left with folders like 'Python 3 (base)' and 'Python 3 (base)'. The main area displays a notebook with code cells and output, including a plot of a sine wave.
- Bottom:** A screenshot of the 'Images' section in a project management tool. It displays a table of image assets with columns for Name, Type, Status, Visibility, Protected, Disk Format, and Size. The table lists several images, including 'almond-0', 'citra', 'dibao-10', 'dibao-11', 'dibao-12', 'skuto-20-04', 'skuto-22-04', and 'skuto-24-04'. Each row has a 'Launch' button next to the size column.

# EOSC EU Node Offers

The screenshot displays the EOSC EU Node user interface. At the top, there are links for 'Terms of Use', 'Contact us', and 'Privacy Policy'. The main heading is 'European Open Science Cloud EU Node', followed by a description: 'Access your account and take advantage of the free resources, perform research and collaborate.' Below this is a 'Log in' section with a 'Select identity provider' dropdown and a search bar. A list of institutions is shown, including 'Budapest Metropolitan University', 'Corvinus University of Budapest', 'Eötvös Loránd University', and 'University of Veterinary Medicine'. A sidebar on the left lists 'SERVICES' such as 'File Sync & Share', 'Interactive Notebooks', 'Large File Transfer', 'Cloud Container Platform', and 'Virtual Machines'. The main content area shows 'EOSC EU Node Core Services Monitoring' with a 'Core Services Status' section for 'LOT-1-MS1'. A 'Credits' section displays 'Your credits' with a table of services and their status. A 'Helpdesk' section is also visible, featuring a form for submitting a message.

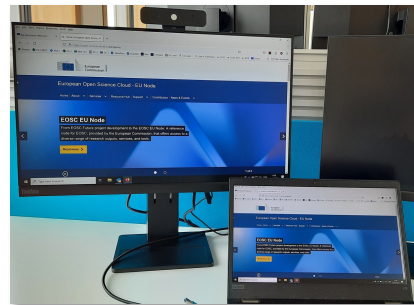
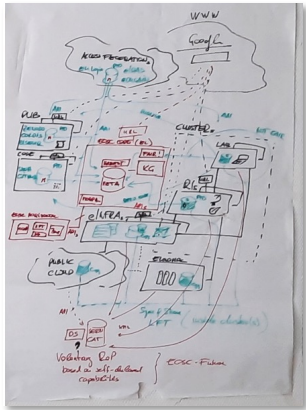
## Contributors

If you are a scientific resource provider in Europe, the EOSC EU Node invites you to contribute your research objects - such as data, software, services, and tools - to support the mission of promoting Open Science.

- Benefit from the **federated AAI** capability, get single user identity and group membership attributes
- Get user entitlements for automated **authorization** decisions
- Utilize **virtual credit** allocations in multiple **wallets** across applications and services
- Harvest curated **catalogues** and connect to metadata **knowledge graph**
- Share **deployment templates** across infrastructures, get **monitoring probes** and first-level support via **helpdesk**



# EOSC EU Node - Passed Timeline and Milestones



<https://open-science-cloud.ec.europa.eu/>



## European Open Science Cloud - EU Node

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# EOSC EU Node

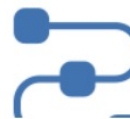
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# Managed Service Contractors



## EOSC EU Node

EXCHANGE



CORE



netcompany

intrasoft





# Thank you!