

The EOSC Portal:

Uses and benefits for researchers

Research is always evolving, and innovation and breakthroughs are enabled by the resources and services available to researchers. In addition to discipline-specific solutions, the European Open Science Cloud (EOSC) is there to help researchers find, access, exploit and re-use data resources and services.

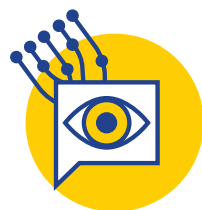
Research communities and research infrastructures are collaboratively creating their respective parts of EOSC and support the formation of an EOSC central infrastructure, including the EOSC Portal.



Discover a wealth of research products and services with EOSC

The EOSC Portal complements discipline-specific catalogues and marketplaces, offering new possibilities to find (and publish your own) data and research outputs. For researchers, the Portal is a first step in the search for data from various disciplines related to your and your colleagues' research projects. You can also find many useful data analysis tools (e.g. Jupyter notebooks).

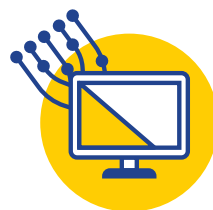
Find out how to use the [EOSC Portal](#) – a search engine for the cross-domain discovery of publications, data, software, grey literature and other research, services and training resources.



Increase your organisation's visibility by registering your research products and services with EOSC

Research data-hosting organisations and infrastructures can increase the visibility of their datasets and other research products by registering their repositories and enabling automatic metadata harvesting of their resources through the EOSC Portal.

See the [EOSC Providers Hub](#) for more details and training resources about how to register your research products and services with EOSC.



Add research support services to the EOSC Marketplace

IT and related service providers can make their offers available to a vast network of research communities and their RIs as well as public organisations and industry stakeholders.

Register to the [EOSC Marketplace](#). Follow these guidelines for [service onboarding](#).

www.eoscfuture.eu  

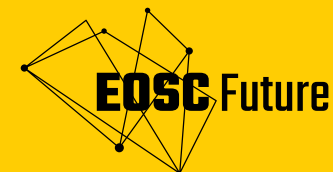
Stay up to date on the EOSC Portal and services

Want to learn more about EOSC and what has been developed in the past years in the context of EOSC Future and other EU-funded projects? Discover [science projects](#), [EOSC in practice stories](#) and the latest [EOSC news](#).



The EOSC Future project is co-funded by the European Union Horizon Programme call INFRAEOSC-03-2020 - Grant Agreement Number 101017536

Additional EOSC services



User dashboard

The EOSC Portal's [user dashboard](#) allows authenticated users to define a [user profile](#) that will allow the EOSC Portal to suggest new resources of interest. Users can add projects with multiple users, bookmarks for favourite resources, and more. Communication with EOSC experts and alerts can also be managed through the dashboard.



Federated AAI

Federated Authentication and Authorization Infrastructure (AAI) is a service provided by many research community infrastructures that enables users to access those services and tools with their institutional credentials. EOSC provides the same federated AAI for all its core services and offers guidelines for application developers who consider implementing EOSC type federated AAI in new services.



EOSC Monitoring

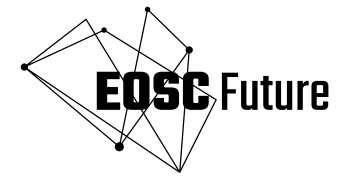
EOSC service providers can integrate the EOSC monitoring service into their own services which helps to measure and improve the service reliability (e.g. uptime). Potential users can view this information via the service landing page in the catalogue or overall EOSC services status page.



EOSC Helpdesk

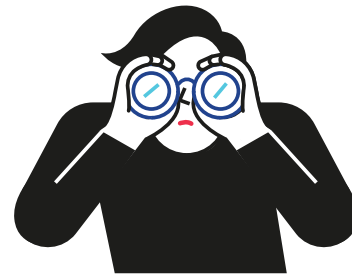
EOSC offers a helpdesk service that EOSC service providers can integrate into their own services at different levels, e.g., linking their service's GUI or integrating their own helpdesk workflow with the central [EOSC Helpdesk](#).

ANSWERING RESEARCH QUESTIONS WITH EOSC



How did the COVID-19 pandemic affect air quality in France?

ANNE FOUILLOUX, Climate data scientist



FINDING COMPATIBLE TOOLS

Additionally, **EOSC recommends tools** to help Anne process the Jupyter notebook and share her outputs.

SEARCH

Anne starts by checking the EOSC Portal for existing research outputs that can help her on her way. She's in luck! She finds a Jupyter notebook with atmospheric data from Copernicus, the EU's Earth Observation Programme.



SHARING RESULTS

Anne also uses the Jupyter notebook and B2Drop to **make her outputs accessible** through EOSC using Zenodo***.

ORDERING AND ACCESS

Anne is eager to dive in. To request access to the Jupyter notebook, she'll need to **place an order** through EOSC. With just a few clicks she makes the request for an **EGI Notebook*** and **B2Drop**** package.

* **EGI Notebook:** A browser-based tool for interactive data analysis using EGI compute resources.
** **B2DROP:** A low-barrier, user-friendly storage environment provided by EUDAT.
*** **Zenodo:** A general open repository for all scholarship, developed by OpenAIRE.

REUSE

Anne **adapts and reuses the Jupyter notebook** to get results for France in the years before, during and after the COVID-19 pandemic.

