

About us

Europe lacks an integrated compute and storage infrastructure that would support the exploitation of Copernicus datasets in scientific and applied applications.

C-SCALE responds to that challenge by making Copernicus data, tools, resources and services easier to discover, access and share.

Our Info

Find out what C-SCALE has to offer



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<https://c-scale.eu/>



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C-SCALE

C-SCALE

Enabling Copernicus Big Data Analytics through EOSC

for Users

Our Mission

C-SCALE empowers European researchers, institutions and initiatives to easily discover, access, process, analyse and share Copernicus data, tools, resources and services through the EOSC Portal, a catalogue of possible services for EOSC.

How?

The C-SCALE project enhances the EOSC Portal with pan-European federated data and computing infrastructure services for Copernicus.

Our services



FedEarthData



Metadata Query Service



OpenEO platform



Workflow solutions



Based on satellite and in situ observations, the Copernicus services deliver near-real-time data on a global level, to help us better understand our planet and sustainably manage the environment we live in



EOSC will be a 'Web of FAIR Data and services' for science in Europe. It will be a multi-disciplinary environment where researchers can publish, find and re-use data, tools and services, enabling them to better conduct their work



enables



Seamless access

C-SCALE seamlessly integrates access to EO and Copernicus data into the EOSC portal service offerings, exposing Copernicus data to a much broader audience

Easy Processing & Analysis



C-SCALE federates European e-infrastructures and lay the foundation for a European open Big (Copernicus) Data Analytics platform



Cross-disciplinary research

The integration enabled by C-SCALE helps to make the Copernicus data FAIR and create optimal conditions for cross-disciplinary research

Knowledge for sound decision making



Data and service-based knowledge facilitated by C-SCALE will help to monitor and mitigate climate change and improve the quality of life for citizens of Europe and around the world

Let's pilot a new federated infrastructure for Copernicus and Earth Observation data, with a core computing through our call for use cases.

Co-design the C-SCALE federation with us to ensure that the e-infrastructure implementation is aligned with your needs. You will get access to infrastructure and platform services, and dedicated user support and training.

Who

international researchers, research projects, communities, and infrastructures, as well as national research groups, SMEs and industries

Why

- Use new technologies and platform services and reach higher technology readiness levels
- Reduce your reliance on proprietary, commercial cloud platforms
- Access a large repository of Copernicus data with fast access from the project Cloud IaaS
- Scale your application up and out to achieve planetary-scale analytics
- And more.....

What

- A compute and data federation combining resources from ESA's Collaborative Ground Segment, Copernicus Data and Information Access Services and the European Open Science Cloud.
- 12 PB months of storage
- 18 million Cloud CPU hours
- 3.1 million HPC/HTC CPU hours
- 6,000 GPU hours

How

Visit <https://c-scale.eu/call-for-use-cases/>