

# OSCARS project

Open Science Clusters' Action for Research and Society

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## In response to the EU call on EOSC HORIZON-INFRA-2023-EOSC-01-01

- Building on the [Science Cluster approach](#)
- to ensure the [uptake of EOSC by research communities](#)

## Partners

- Coordinator: [CNRS LAPP](#)
- [15](#) partners, [2-3](#) representing each [Science Cluster community](#)

## Research Infrastructures and Communities

The science clusters have grown out of five collaborative projects funded by the European Union in 2019 to link ESFRI and other world-class Research Infrastructures (RIs) to the European Open Science Cloud (EOSC). The services developed by the clusters and other outcomes of the projects are cornerstones of the emerging EOSC fabric and support both disciplinary communities and multidisciplinary initiatives with harmonised models for access to data, tools, workflows and training. Each cluster unites multiple RIs in their specific scientific domain.



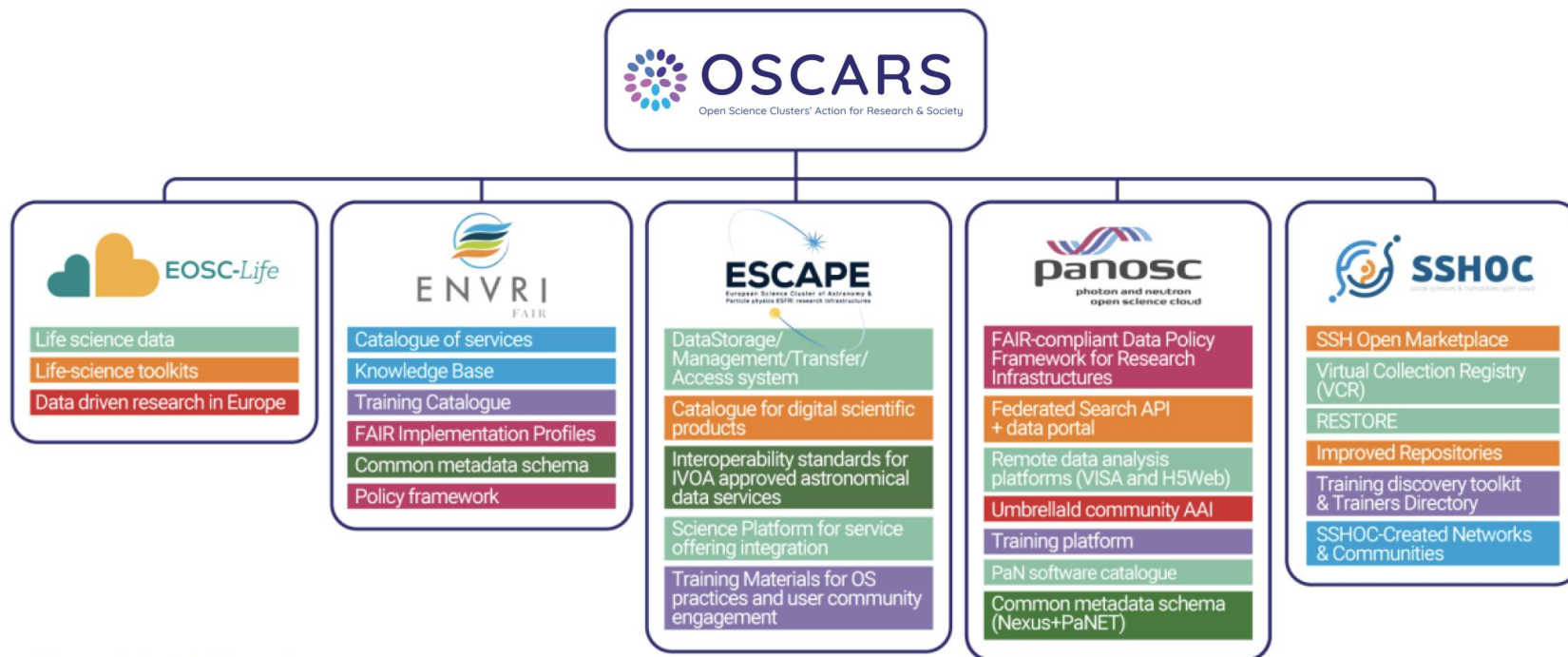
<https://science-clusters.eu/>

## Budget and timeline

- Starting date: [2024-01-01](#)
- Duration: [4 years](#)
- EC funding: [25 M€](#) (100%)

**Science Clusters fostering the uptake of Open Science in Europe**

# Clusters' results



## RESULTS CATEGORIES

- Technical Harmonisation
- Policy Harmonisation
- Discovery/Access Platform
- Virtual Reserch Environment (VRE)
- Training Resource
- Knowledge Centre
- Authentication and Authorization Infrastructure (AAI)

# OSCARS' Objectives

**A)** consolidating achievements from the five H2020 INFRA-EOSC-2018-01-04 projects into **lasting interdisciplinary services and working practices** towards:

- More cohesion;
- Leveraging **cross-domain approach** and **cooperation with e-infrastructures**;
- **Cross-fertilization** for shared solutions of key services for researchers in all domains;
- Cooperating and supporting the **EOSC partnership**.

**(B)** Leading and fostering the involvement of a broad range of research communities in EOSC via the development of new **Open Science projects** to drive the uptake of FAIR-data-intensive research throughout the ERA by:

- Contributing to a **data space for science, research and innovation**, integrated into the other data spaces described in the European Strategy for Data.
- Pursuing the creation of **pan-European research-enabling value-added services**;
- Fostering the **coordination** of national activities, European RIs and the scientific community at large, including the long tail of science;
- Fostering **interdisciplinarity** for achieving challenging new science pathways.

# EXPECTED RESULTS

- **Open Science practice:** increased scientific impacts via the support of Open Science projects;
- **Community-based Competence Centres (CCC)**, contributing to the sustainability of the Science Cluster actions, fostering their impacts, supporting and aligning operations of ESFRI and other RIs and involving the long tail of science.
- **Composable Open Data and Analysis Services (CODAS)** onboarded into the EOSC Exchange platform, fostering the alignments of practices in scientific data analysis and enhancing researchers' participation in Open Science.
- An **established inter-cluster web-based "scientific social network"** in Europe. Training, mentoring, cross-disciplinary events and cross-cluster developments.

# EXPECTED OUTCOMES

- **Operational Competence Centres**
- Uptake of **web-based highly composable platforms for Open Science data analysis**;
- **Stronger involvement of scientific communities in Open Science** and the shaping of EOSC;
- Enhancing and further structuring of the successful **cross-fertilization** work built by the Science Clusters;
- **Economy of scale** of (cross-cluster) services;
- Enable a **largely participative research ecosystem**, promoting provenance tracking to research outputs and contributing to the evolution of research assessment methodologies.

# OSCARS project – OPEN CALLS

16 / 25 M€

## GOAL:

Build on the science cluster approach to ensure the uptake of EOSC, i.e., consolidate FAIR services of the five Science Clusters and, more broadly, perform excellent science and pursue societal benefits by leveraging an Open Research approach.

## TARGET USER COMMUNITIES:

Science Clusters and wider community (RIs, Universities, Institutes, either consortia, or individual researchers)

## Submission process

- Opens: ~ **March 2024 / Nov. 2024**
- 10 pages max
- Submission within **60 days**
- Project start: **Sept-Dec. 2024 / Aug-Oct. 2025**

## Limits

- Budget: **100 - 250 k€** / project
- Duration: **1 - 2 years**

## Evaluation criteria for the independent expert panel

- Project description: clear objectives, towards **FAIR** and **open**
- Scientific impacts: **multiple RIs / cross-cluster**
- Digital resources: use of **EOSC** services / new **EOSC** service
- Implementation: **realistic** within budget

# OSCARS project

## OPEN CALLS – Proposal guidelines

- 10 pages max
- Language: English

### Proposals' structure

- Proposal Title and Acronym
- Open Science/Data FAIRNESS challenge(s)
- Domain
- Consortium composition
- Duration and financial support
- Summary
- Project description
- Scientific impacts
- Digital resources
- Project Implementation, Budget Breakdown and Final Deliverables

The screenshot displays the OSCARS proposal submission interface. At the top, there is a navigation bar with 'OPEN CALLS' and 'MY APPLICATIONS' tabs. The main content area shows a form for submitting an application. The form includes a header section with a title 'Lorem ipsum dolor sit amet', a logo field, and an acronym field. Below this, there is a 'Title of Application' field and a list of sections to be completed: 1. Summary (max 4000 characters), 2. Objectives (max 4000 characters), 3. Scientific impacts (max 4000 characters), 4. Final goals (max 3000 characters), 5. Project implementation (max 20,000 characters), and 6. Budget. There are 'SAVE DRAFT' and 'SUBMIT APPLICATION' buttons at the bottom of the form. A large orange watermark 'MOCK-UP of cascading grants platform' is overlaid on the form.

### Deliverables for public dissemination:

- A final project summary in PDF format of maximum 5000 characters, including spaces.
- A presentation
- A “scientific journal or journal-type” article summarising the main project results and methodology used to achieve them.

# EVERSE

European Virtual Institute for Research Software Excellence

**Further actions are led by the Science Clusters, e.g. EVERSE**

**In response to the EU call on EOSC HORIZON-INFRA-2023-EOSC-01-02**

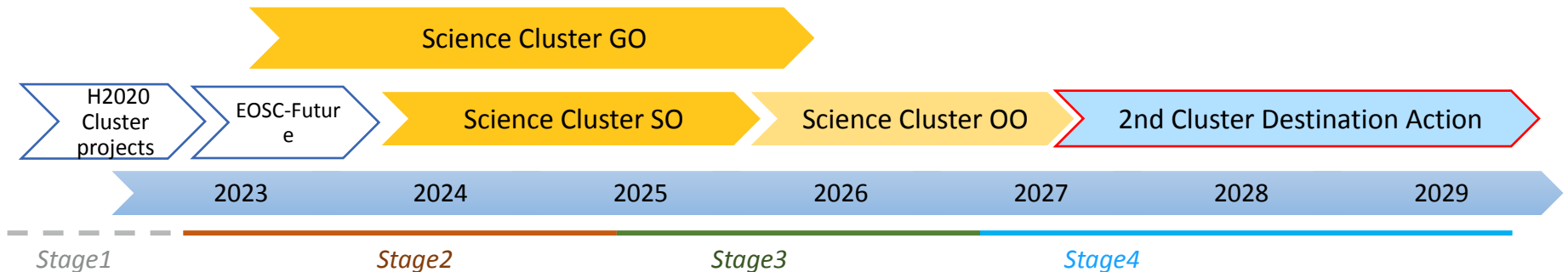
- Building on the [Science Cluster approach](#)
- The **catalogue of software** will continue to be populated with new collaborative cross-border software, workflows and methods and for the benefit of the community at large.
- Development of community-based approaches for ensuring and improving **quality of scientific software and code** highly relevant to all Science Clusters.
- **Establish the Virtual Research institute (VRI)**

**Science Clusters fostering the uptake of Open Science in Europe**



# Conclusions

OSCARS (EVERSE and others) to support the Science Cluster work plan within **Horizon Europe**



## General Objectives (GO):

- consolidation of thematic data infrastructures (cluster VREs, platforms and a “few core services”) as parts of a federation.

## Specific Objectives (SO):

- relevant scientific results from clusters;
- increased number of RIs;
- enhance researchers uptake of OS and widening dimension.

## Operational Objectives (OO):

- sustainable operation of the deployed cluster as a “platform infrastructure” (e.g. CCC and VRI);
- continuous promotion and hosting of inter-domain FAIR Science Projects.
- domain-based (new RIs’) challenges as well as new Open Science Objectives (**a new cluster destination action**).