



OSCARS

Open Science Clusters' Action
for Research & Society

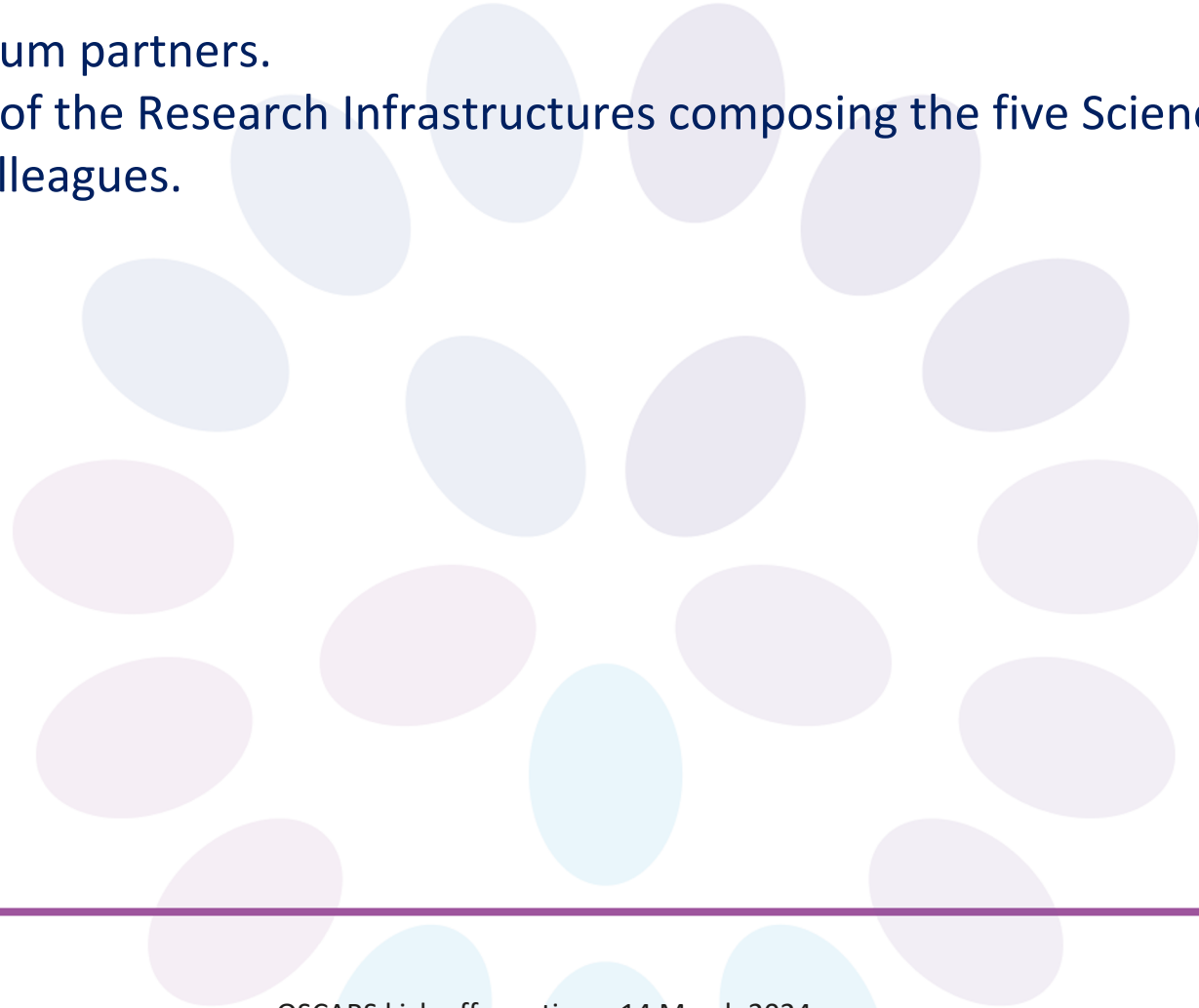
About OSCARS

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CNRS-IN2P3-LAPP

OSCARS kick-off meeting - 14 March 2024

The Science Clusters address a warm welcome to all:

- OSCARS consortium partners.
- Representatives of the Research Infrastructures composing the five Science Clusters.
- All concerned colleagues.



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

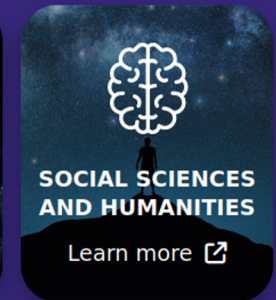
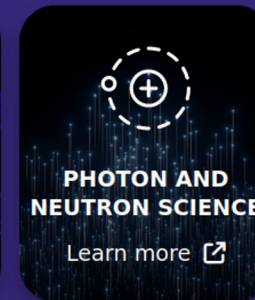
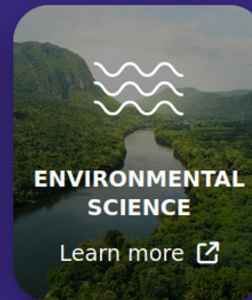
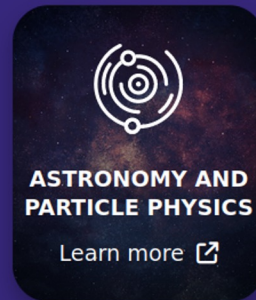
- Coordinator: **CNRS LAPP**
- **15** partners, **2-3** representing each [Science Cluster community](#)

Budget and timeline

- Starting date: **1 January 2024**
- Duration: **4 years**
- EC funding: **25 M€ (100%)**

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/>

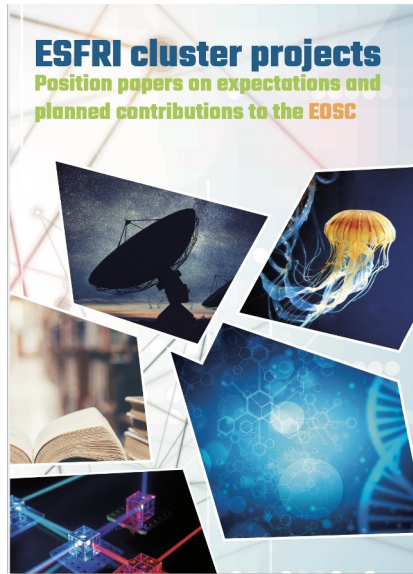


The Science Clusters: a stimulating adventure.

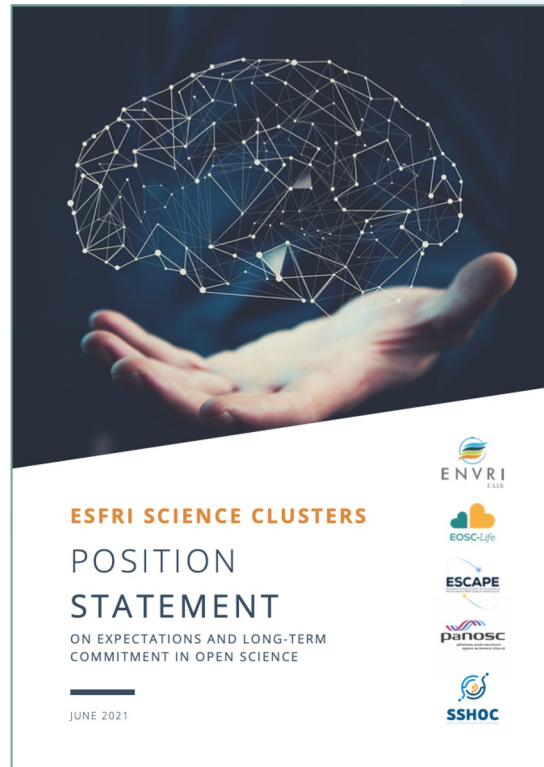
- We took a gamble by joining the EOSC concept in order to foster cooperation among our RIs.
- We offered ourselves an opportunity and a role to help the uptake of Open Science in Europe.
- We build and provide visions.
- We deploy cooperative actions and support a shared work programme



The Science Cluster concept was aimed at supporting “**Open-science data-intensive research**” in order to “**raise productivity of researchers and to lead to new insights and innovation**” and has enabled broader synergies and **shared visions**



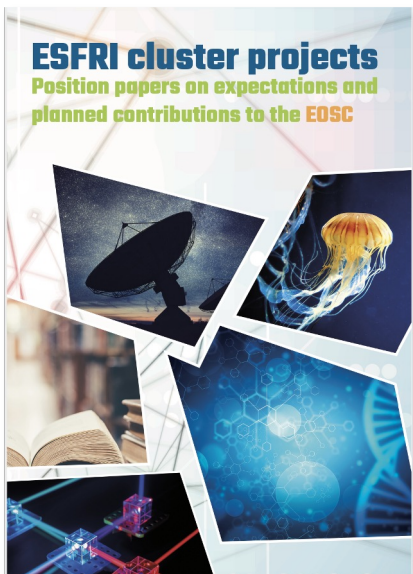
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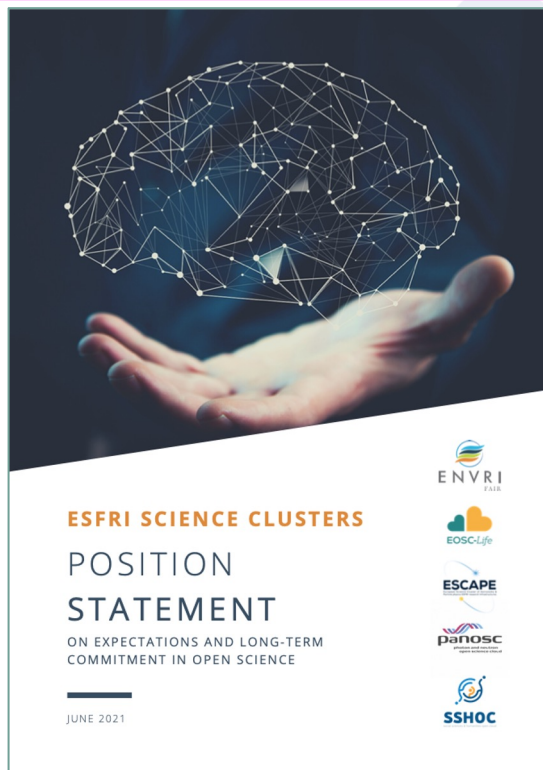
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<https://indico.in2p3.fr/event/24327/>

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A small but impactful participation and a step forward in shaping the SCL work plan.

- Supporting Open Research Test Science Projects
- Fostering the domain based EOSC exchange services for RIs
- Integrating them with EOSC core functionalities

After H2020 grants, the five Science Clusters are putting long-term structures in place (through MoU or Collaboration Agreements).

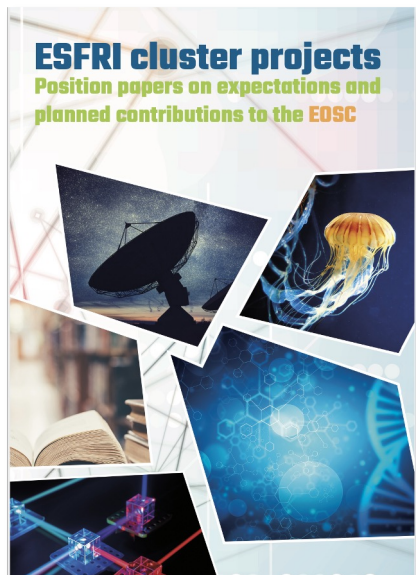
Definition of more structuring inter-Cluster objectives.



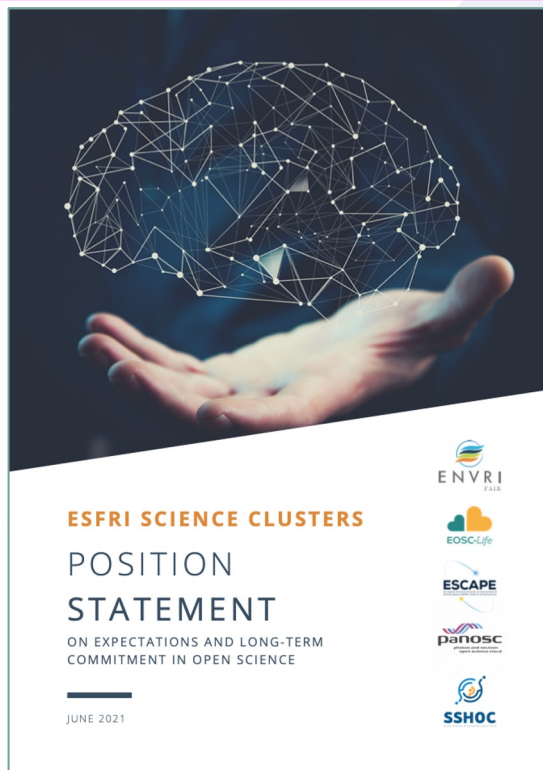
The Science Clusters in Horizon Europe : **OSCARS** and **EVERSE**

- Acknowledge software achievements, raise awareness of the foundation approach (virtual institute), promote careers and skills
- Implement EOSC through highly composable platforms (VRE), including software
- Consolidate SCL services and support the goals of Open Research.

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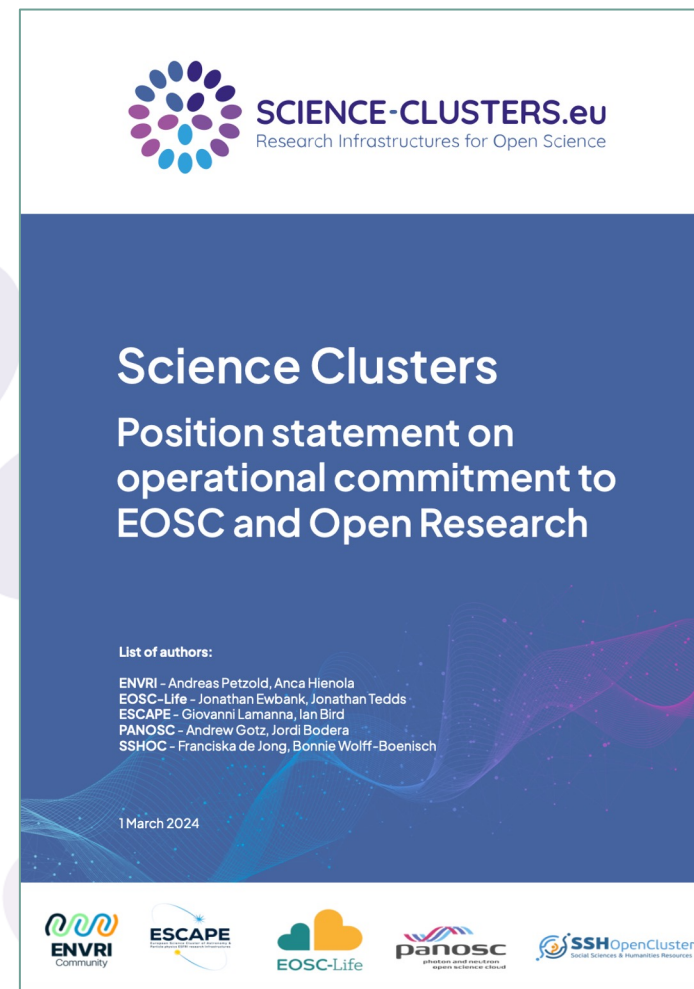


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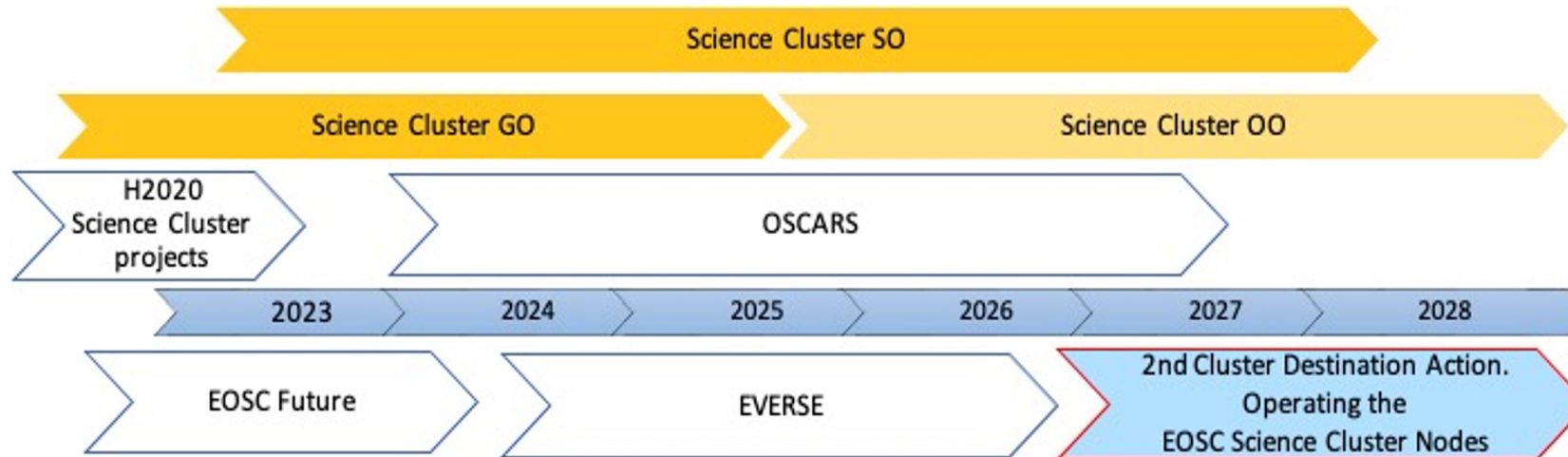
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<https://doi.org/10.5281/zenodo.10732049>

- EOSC is seen as a federation of distributed systems of multiple interconnected Nodes.
- Defining and developing the implementation model of such a federation is a significant challenge.
- The Science Clusters' vision: EOSC Federation as a system of “Web of FAIR Data and Services for Science” and effective thanks to a “community-governed” open science commons co-developed and operated by scientists.
- It is proposed to establish thematic community-based ‘EOSC Science Cluster Nodes’, contingent upon resources, and interconnected with the EOSC EU Node and National Nodes.

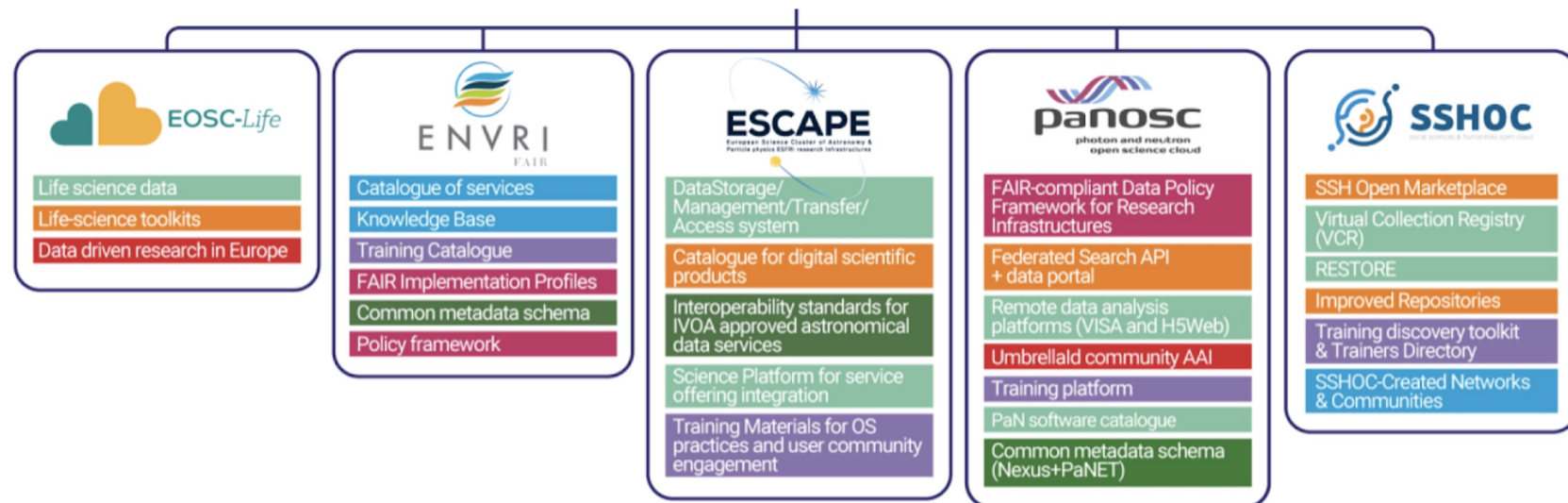


The Science Clusters' workplan addresses General, Specific and Operational Objectives (GO, SO & OO).

- **OSCARS must be seen as a “relevant phase” of the overall Science Clusters’ work plan.**
- **OSCARS goal is to drive the Science Clusters’ scientific communities to enter a sustainable operational stage.**
- **OSCARS is an inter-cluster “cooperative framework open to all”.**
- **OSCARS challenges the Science Clusters to conceive and implement long-term operative framework for Open Research in ERA.**
- **With OSCARS the Science Clusters integrate the EOSC programme and strengthen the EOSC ambitions.**



Science Clusters' Key Exploitable Results



RESULTS CATEGORIES



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 the involvement of a broad range of research communities in Open Research (EOSC) via the development of new **Open Science projects/services** 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.

€16 million

**IN OPEN CALLS
FOR OPEN SCIENCE
PROJECTS**





CERIC

Central European
Research Infrastructure
Consortium



CLARIN



COMMpla

Communication Platforms
and Online Solutions



eatris

EMBL



erinha

European Research Infrastructure
on Highly Pathogenic Agents



FMI



KNAW

MUNI Masaryk
University



UNIVERSITEIT VAN AMSTERDAM



University of Ljubljana



universität
wien

Trust Trust-IT Services
communicating to markets

WP1
**Cluster Open science
Competence Centres
(CLOCC)**

Jordi Bodera Sempere



WP2
**Composable RI Services
in EOSC (CRISE)**

Sally Chambers



WP3
**Testing and Widening
Uptake (TEWE)**

Romain David



Giovanni Lamanna
OSCARS project coordinator



Friederike Schmidt-Tremmel
OSCARS project manager



Gary Saunders



Paul Millar



Anca Hienola



- **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)** (service catalogues, data hubs, analysis platforms, etc.) onboarded into the EOSC, 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.

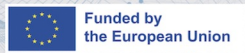
- **Operational Competence Centres**
- Uptake of **web-based highly composable platforms for Open Science data analysis**;
- **Stronger involvement of scientific communities in Open Science** and the shaping of EOSC;
- Enhancing and further structuring of the successful **cross-fertilization** work built 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.



Open Call for Open Science Projects

Launch event

15 March 2024
Online



- Opens: ~ **March 2024 / Nov. 2024**
- Submission within **60 days**
- Project start: **Sept-Dec. 2024 / Aug-Oct. 2025**
- Budget: **100 - 250 k€ / project**
- Duration: **1 - 2 years**

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)

Evaluation criteria for the independent expert panel

- Project description: clear objectives, towards **FAIRness** and/or **openness**
- Scientific impacts: excellent science per **domain RI, multiple RIs / cross-cluster**
- Digital resources: “data”, **SCL and EOSC** services / new service
- Implementation: **realistic** within budget



OSCARS

Thank you