



OSCAR

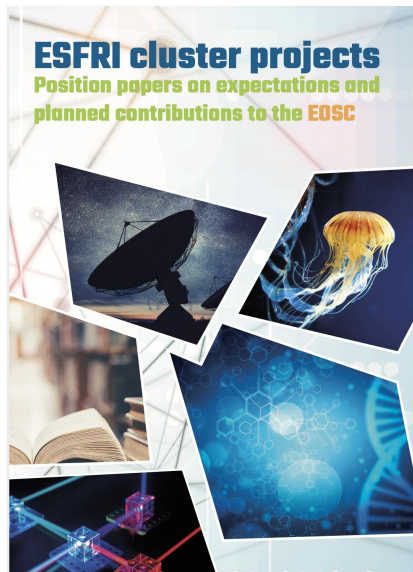
Open Science Clusters' Action
for Research & Society

The Science Clusters work programme: EVERSE and OSCAR

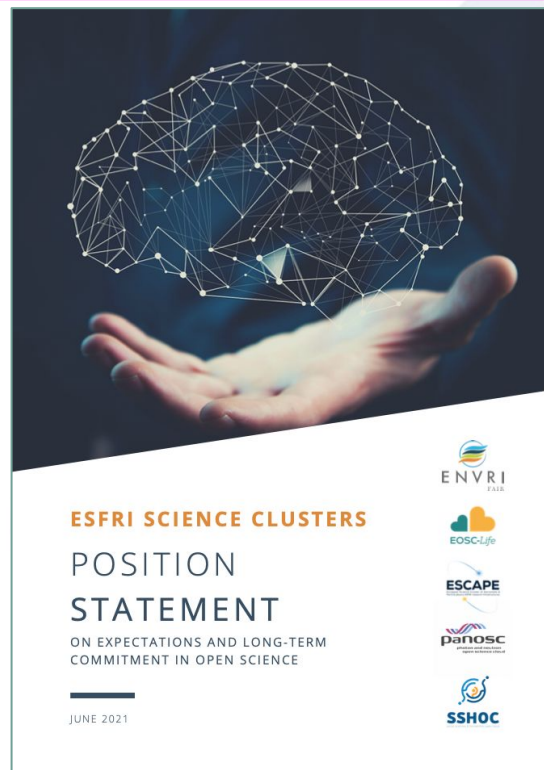
Giovanni LAMANNA
CNRS-IN2P3-LAPP

OSCAR & EVERSE meeting - 13 March 2024

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**



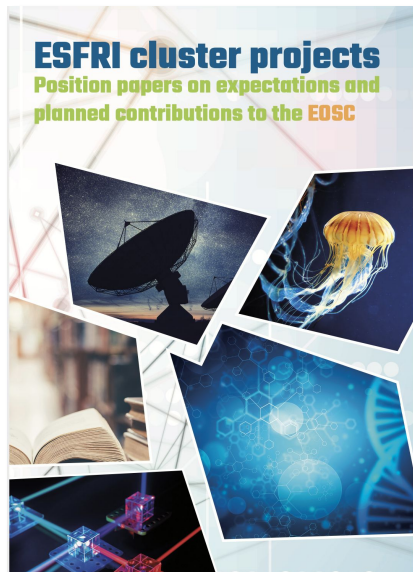
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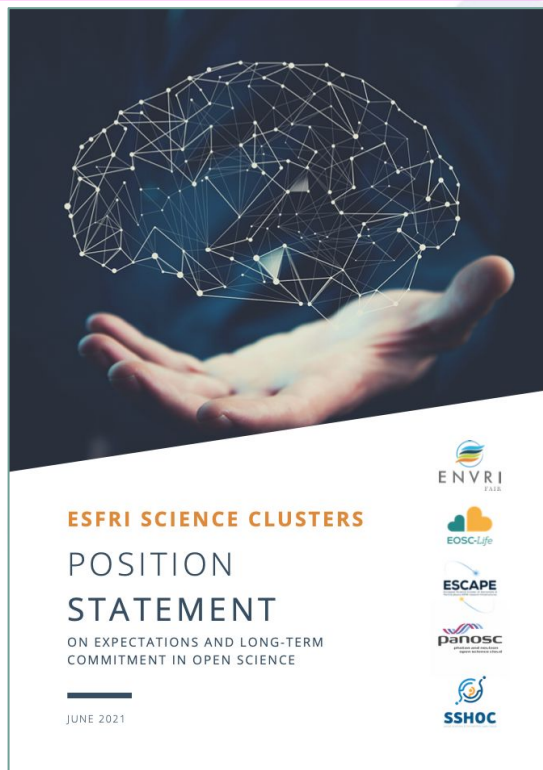
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<https://indico.in2p3.fr/event/24327/>

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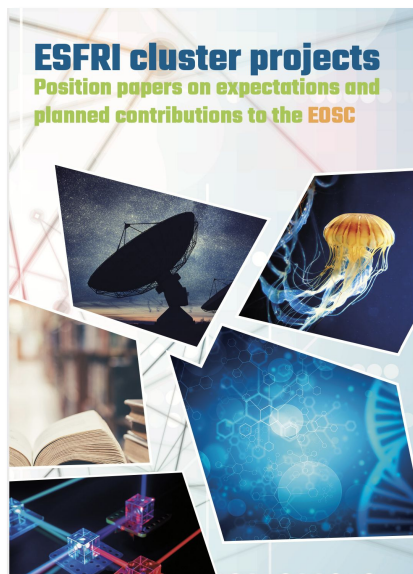
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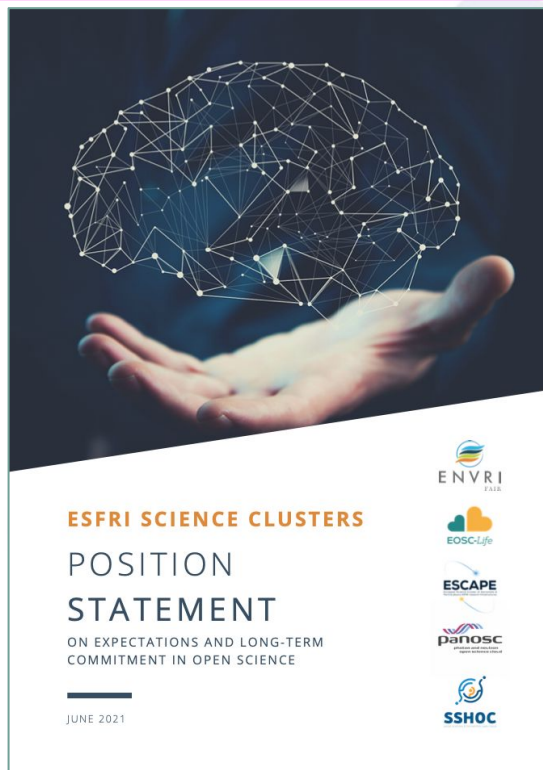
A small but impactful participation and a step forward in shaping the SCL work plan.

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

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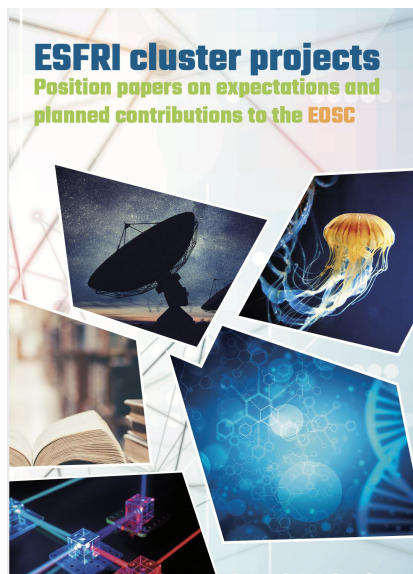
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After H2020 grants, the five Science Clusters are putting long-term structures in place (through MoU or Collaboration Agreements).

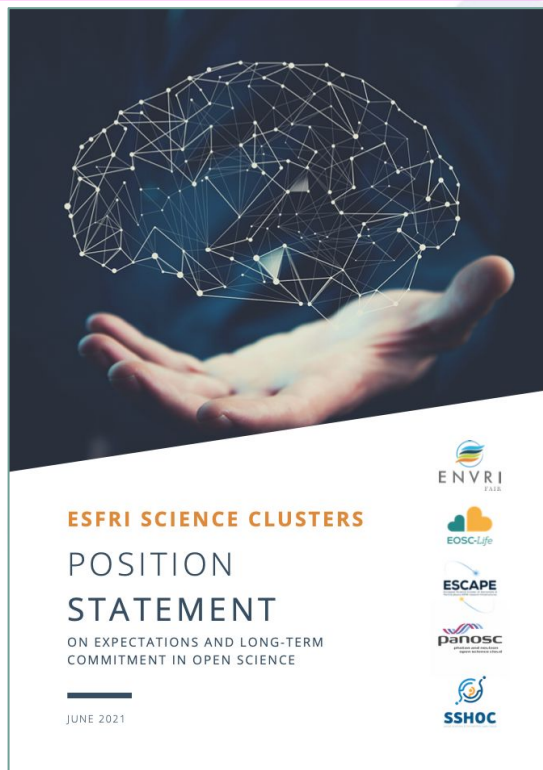
Definition of more structuring inter-Cluster objectives.



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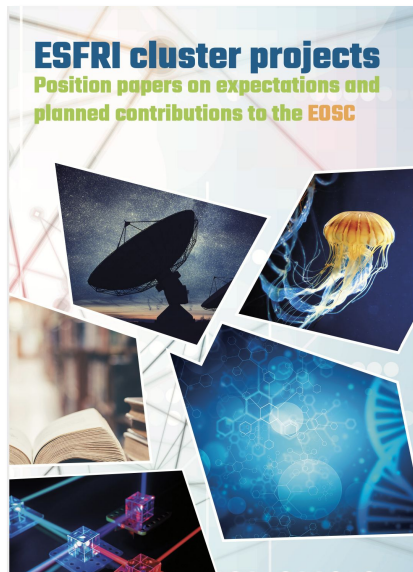
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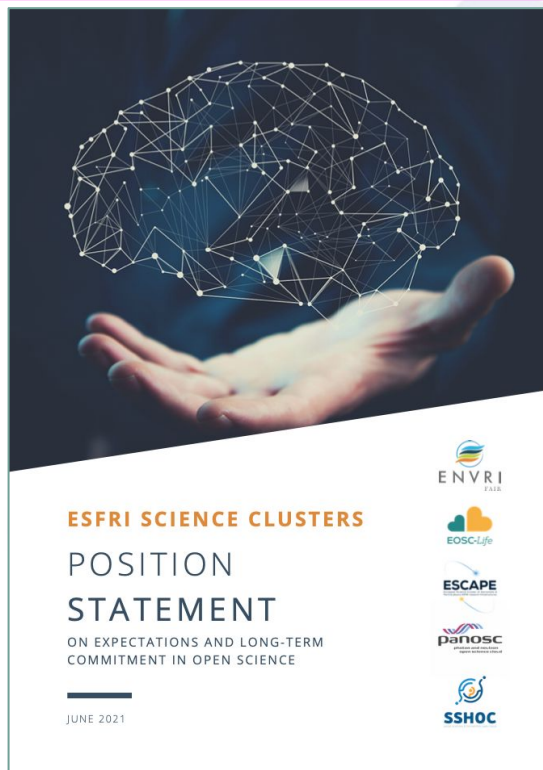
The Science Clusters in Horizon Europe : OSCARS and EVERSE

- 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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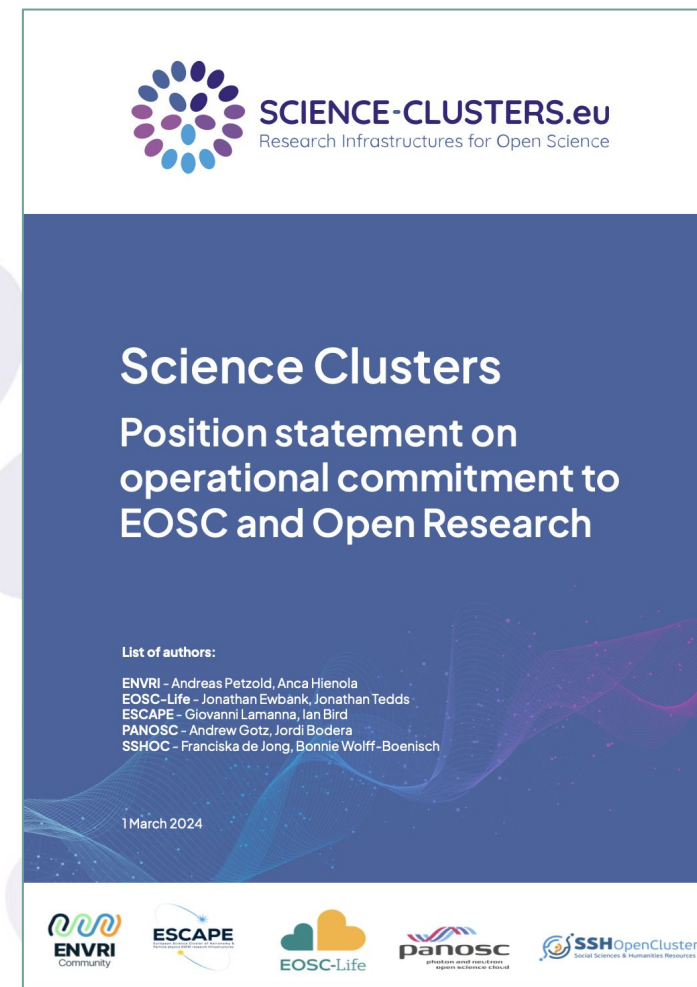


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<https://doi.org/10.5281/zenodo.10732049>

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

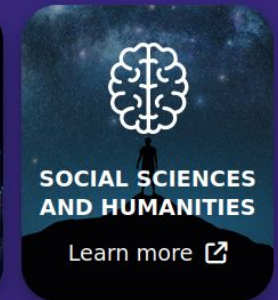
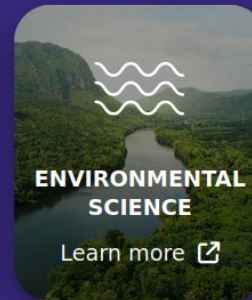
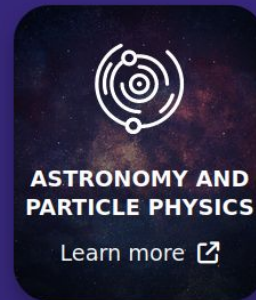
- Coordinator: **CNRS LAPP**
- **15** partners, **2-3** representing each [Science Cluster community](#)

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/>



Science Clusters fostering the uptake of Open Science in Europe

OSCARS' partners and AEs

CNRS	ESRF
CERN	DESY
	CERIC-ERIC
FZJ GmbH	
Lifewatch ERIC	CLARIN ERIC
Universiteit van Amsterdam	CESSDA ERIC
FMI/Ilmatieteen Laitos	Universität Wien
	Univerza v Ljubljani
EMBL	KNAW
Albert-Ludwig Universität	DARIAH ERIC
Freiburg	
Masarykova Univerzita	Trust-IT
EATRIS ERIC	COMMPLA
ERINHA	

OSCARS' WP leaders

WP1 - CLuster Open science Competence Centres (CLOCC)

Jordi Bodega Sempere, ESRF
Gary Saunders, EATRIS

WP2 - Composable RI Services in EOSC (CRISE)

Sally Chambers, DARIAH
Paul Millar, DESY

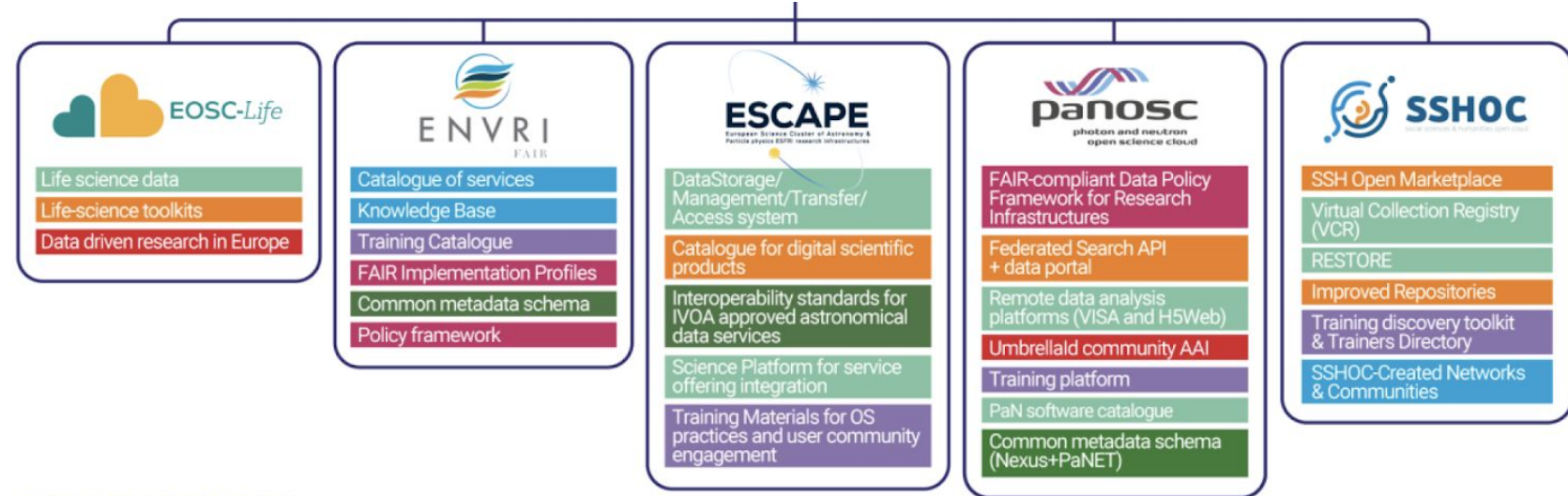
WP3 – Testing and Widening Uptake (TEWE)

Romain David, ERINHA
Anca Hienola, FMI/Ilmatieteen Laitos

WP4 – Management, Communication and Open Calls (MACC)

Giovanni Lamanna, CNRS LAPP
Friederike Schmidt-Tremmel, Trust-IT

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**






Open Call for Open Science Projects

Launch event

15 March 2024
Online

Funded by the European Union

GOAL:

Build on the science cluster approach to ensure the uptake of EOOSC, 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)

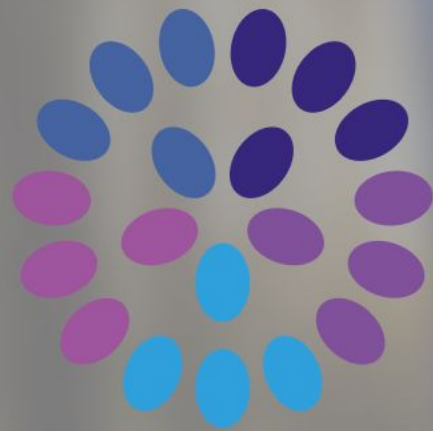
- Opens: ~ **March 2024 / Nov. 2024**
- Submission within **60 days**
- Project start: **Sept-Dec. 2024 / Aug-Oct. 2025**
- Budget: **100 - 250 k€** / project
- Duration: **1 - 2 years**

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 **EOOSC** services / new **EOOSC** service
- Implementation: **realistic** within budget

- **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** (encompassing the **Virtual Research Institute**)
- Uptake of **web-based highly composable platforms for Open Science data analysis** through Virtual Research Environments (**VRE**) that include the **software catalogues**.
- Stronger involvement of **scientific communities in Open Science**, implying the **quality of open source code** and their shared **developments**.
- Demonstrating the successful **cross-fertilization** work built by the Science Clusters towards a **“foundation approach”**, including **“open science camps, summer schools and other training services”**
- **Showcase economy of scale** of (cross-cluster) approaches;
- Enable a **largely participative research ecosystem**, promoting provenance tracking to research outputs and contributing to the evolution of research assessment methodologies.



OSCARS

Thank you