



OSCARS

Open Science Clusters' Action
for Research & Society

About OSCARS

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CNRS-IN2P3-LAPP

1st RICH Symposium - 7 May 2024

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

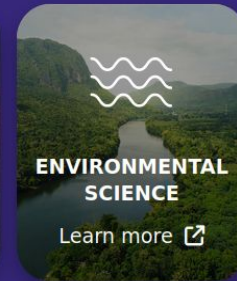
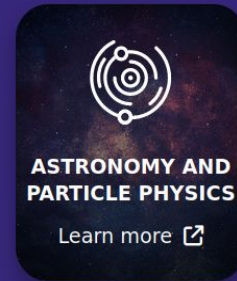
- Coordinator: **CNRS LAPP**
- **15** partners, **2-3** representing each Science Cluster community

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://oscars-project.eu/>

Science Clusters fostering the uptake of Open Science in Europe



European Research Infrastructure
on Highly Pathogenic Agents



UNIVERSITEIT VAN AMSTERDAM



University of Ljubljana



universität
wien



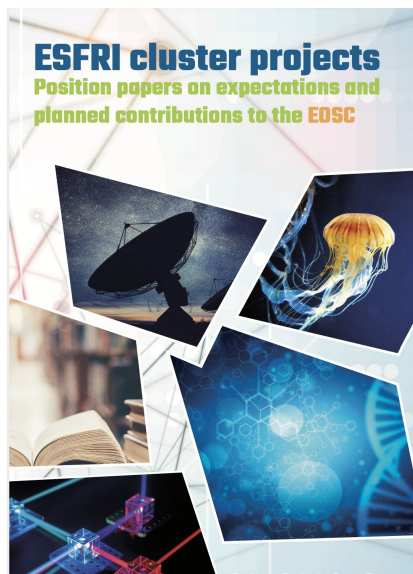
The Science Clusters: a stimulating adventure.

- We took a gamble by joining the EOSC concept in order to foster cooperation among 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

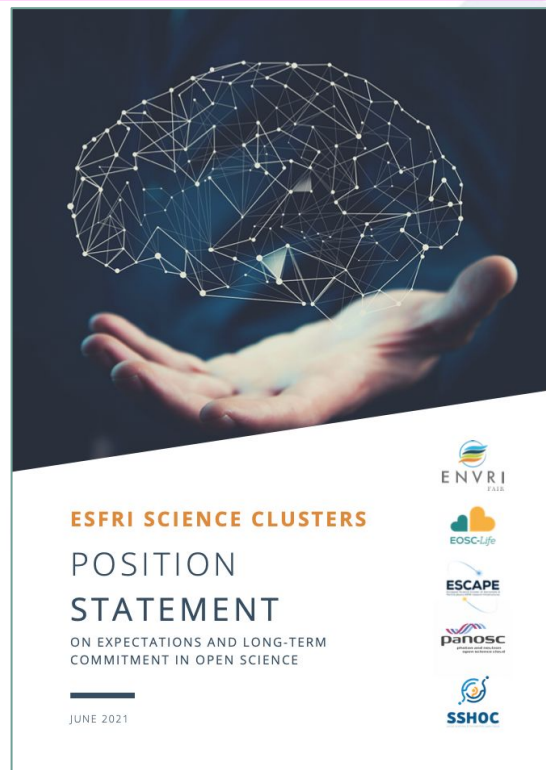
<https://science-clusters.eu/>



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**



<https://zenodo.org/record/3675081-.X2R2PJNLhTY>



<https://zenodo.org/record/4889503>

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



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).

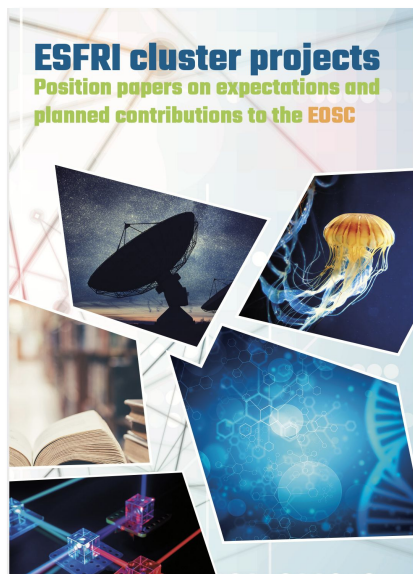
Definition of more structuring inter-Cluster objectives.



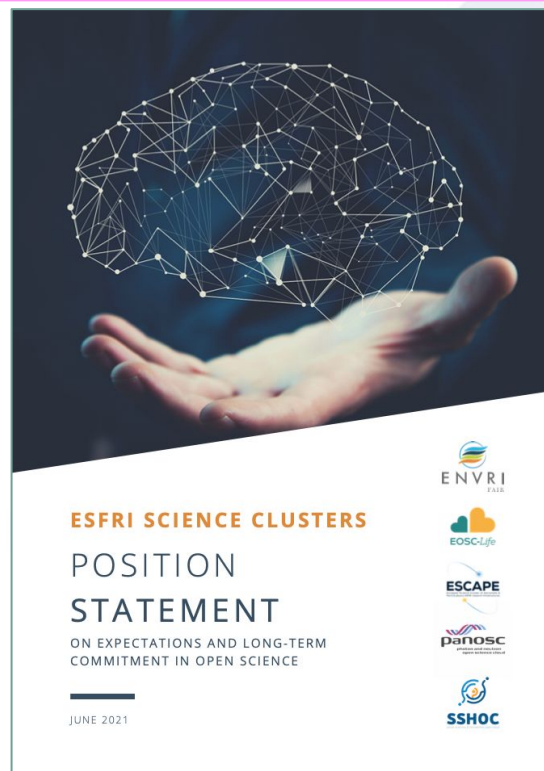
The Science Clusters in Horizon Europe : OSCARS and EVERSE

- 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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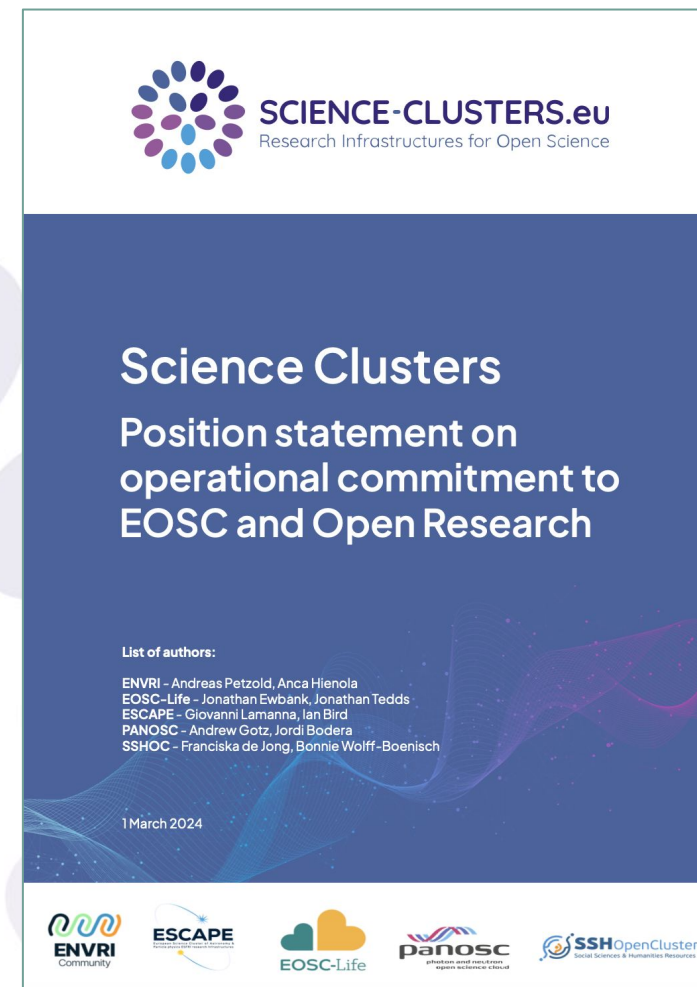


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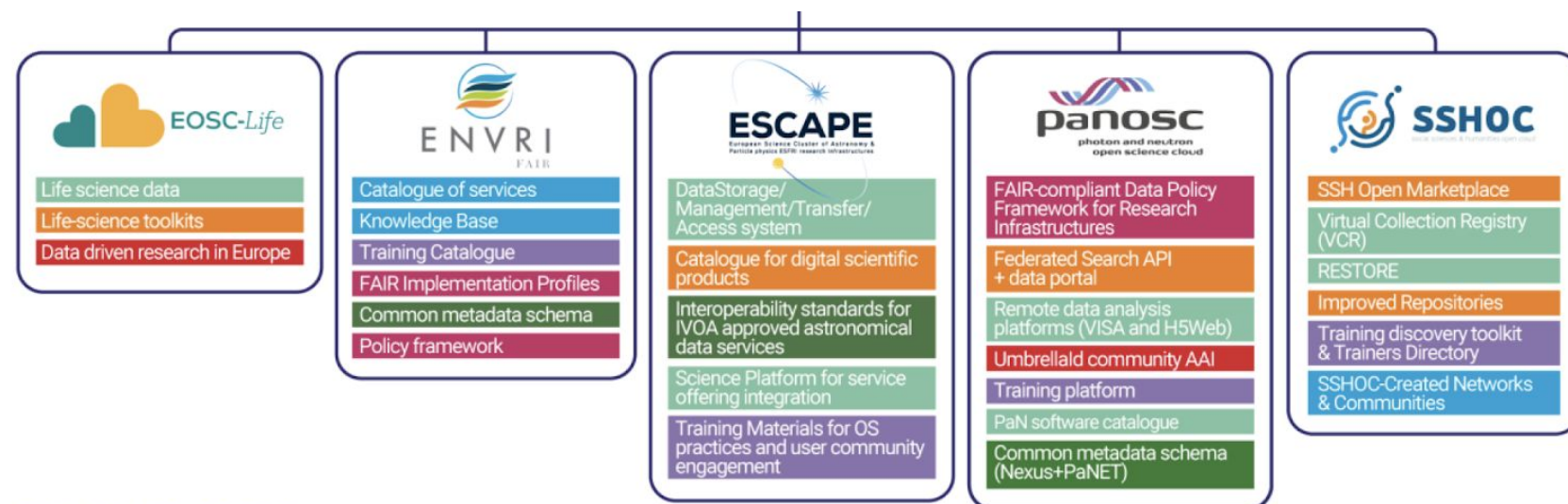
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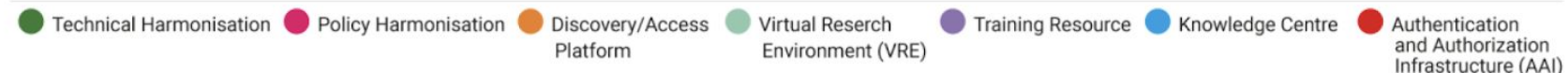


<https://doi.org/10.5281/zenodo.10732049>

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.

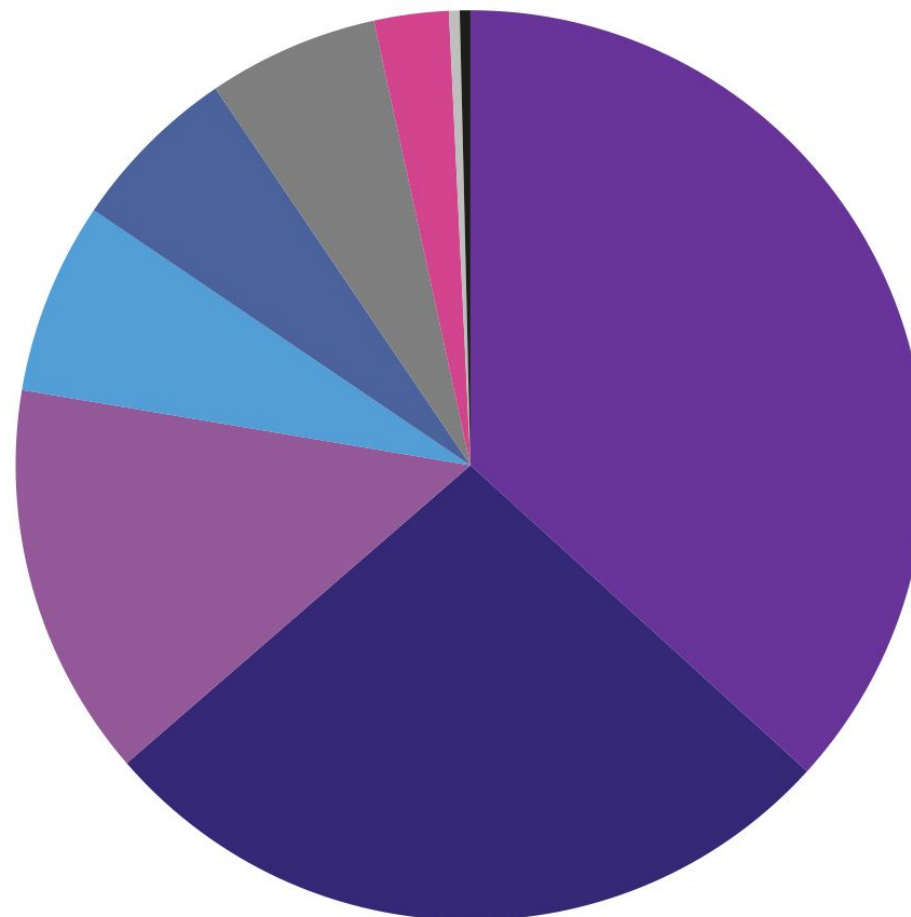
€16 million

**IN OPEN CALLS
FOR OPEN SCIENCE
PROJECTS**





Percentage of proposals per type of coordinating organisation



■ University

■ SMEs & Startups

■ International Organisation

■ Research Technology Organisation

■ Non-Profit or NGO

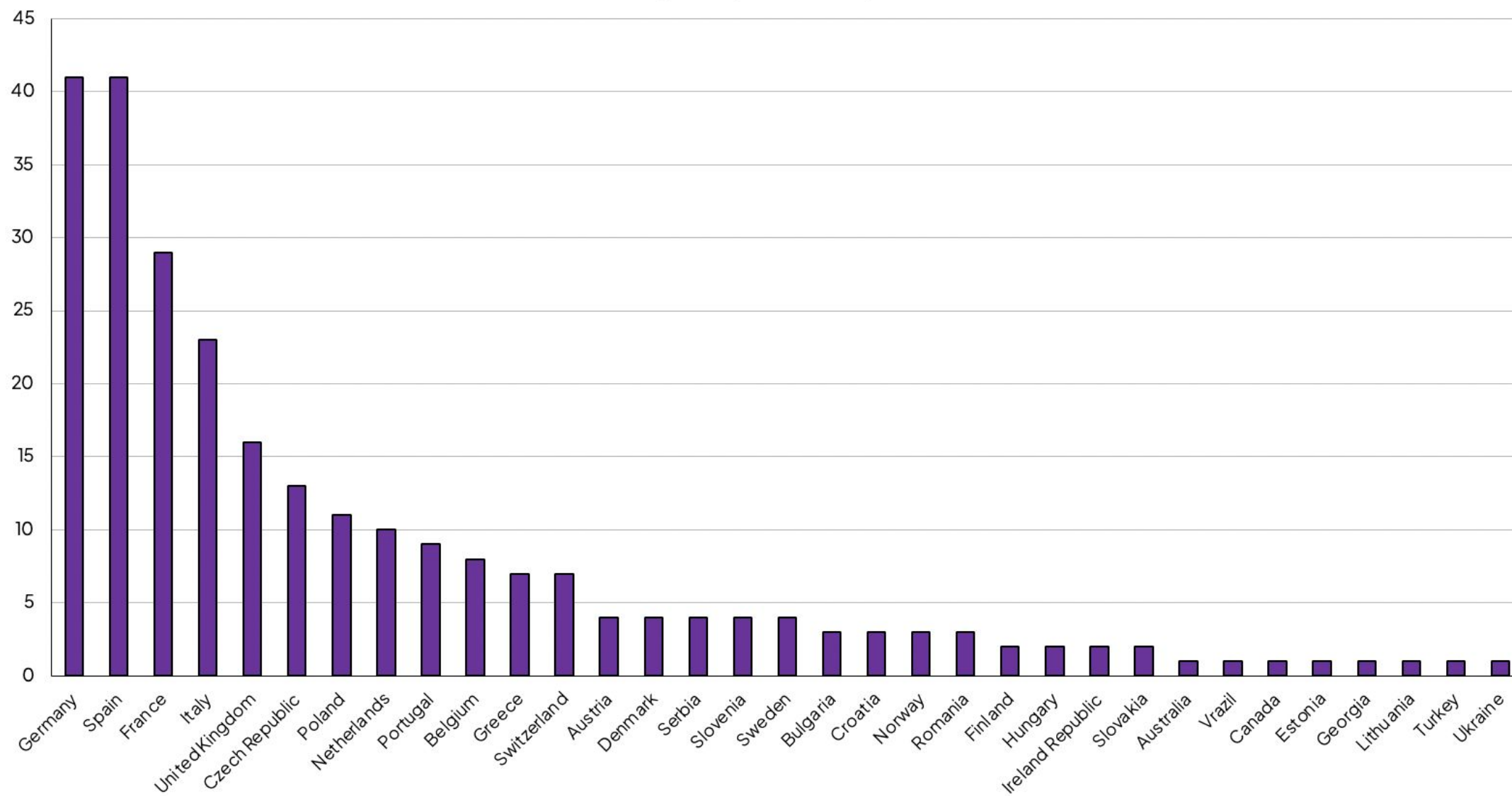
■ Large Corporation

■ Research Infrastructure

■ Other

■ Pan European Organisation

Projects per country



- **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.

WP1
CLuster Open science
Competence Centres
(CLOCC)

Jordi Boderà 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

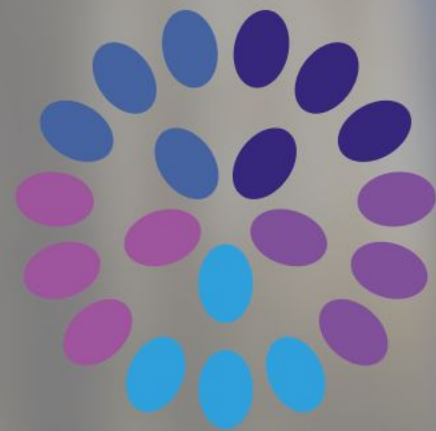


Paul Millar



Anca Hienola





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Thank you