



# OSCARS

Open Science Clusters' Action  
for Research & Society

## An overview

Paul Millar, WLCG/HSF workshop 2024-05-17



Funded by  
the European Union

## 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**

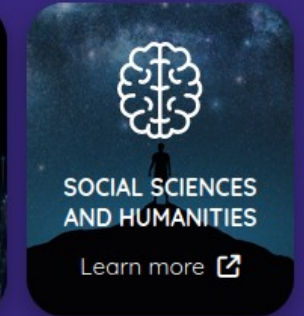
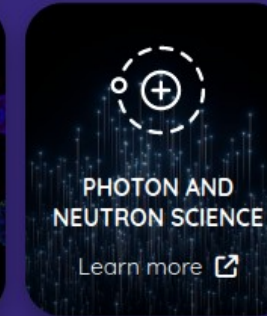
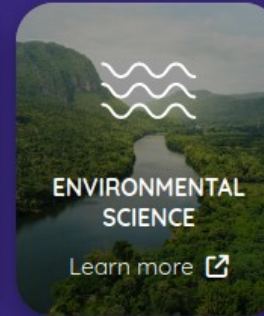
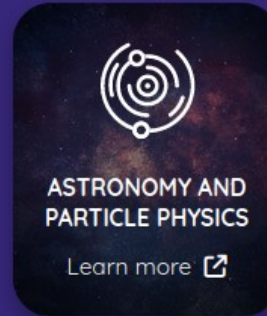
## Partners

- 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



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



**SCIENCE-CLUSTERS.eu**

Research Infrastructures for Open Science


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



## Research Infrastructures and Communities




ASTRONOMY AND  
PARTICLE PHYSICS

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


ENVIRONMENTAL  
SCIENCE

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


LIFE SCIENCE

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


PHOTON AND  
NEUTRON SCIENCE

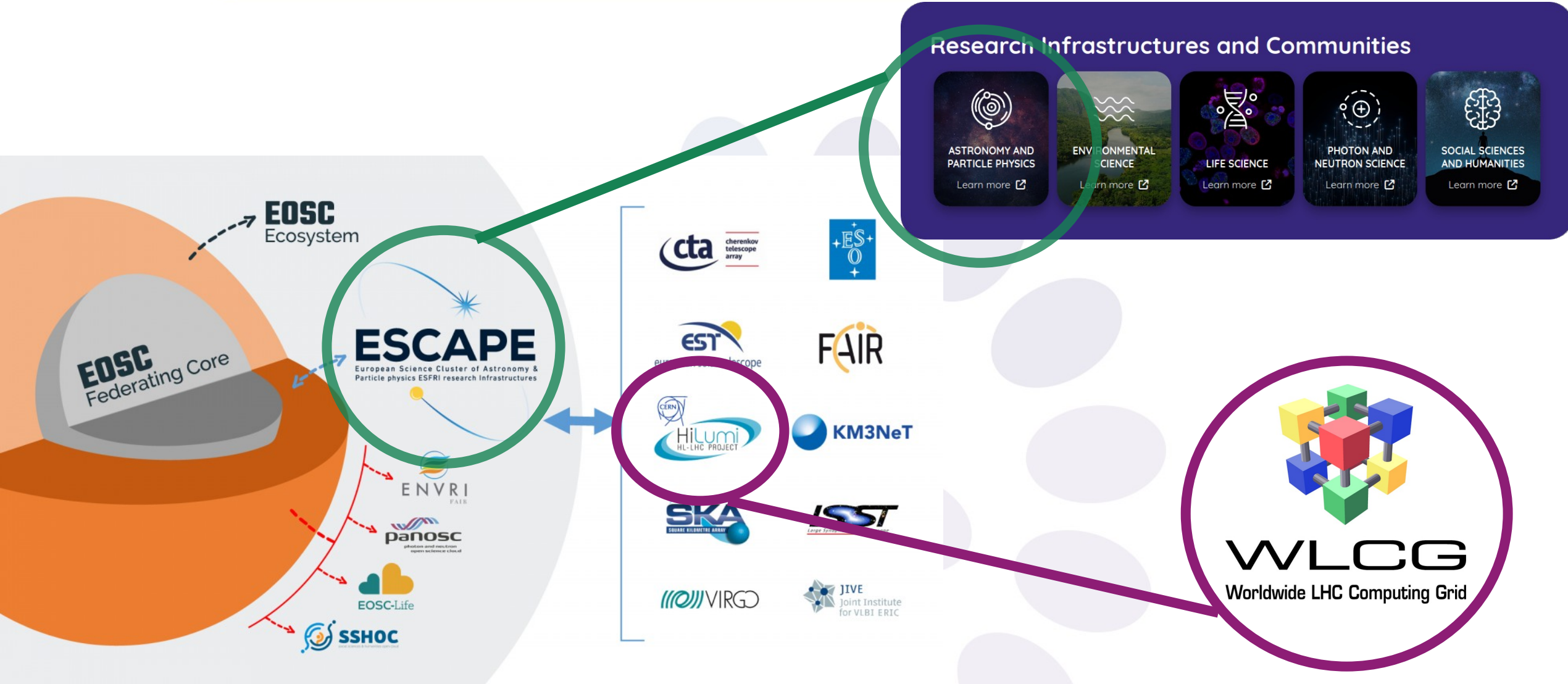
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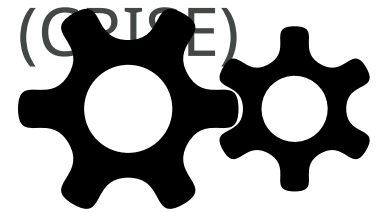
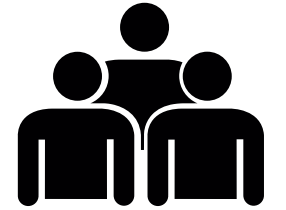
SOCIAL SCIENCES  
AND HUMANITIES

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- **WP1** – CLuster Open science Competency Centres (CLOCC)
- **WP2** – Composable Research Infrastructure Services in EOSC (CRISE)
- **WP3** – Testing and Widening uptake (TEWE)
- **WP4** – MAnagement, Communication and open Calls (MACC)







# 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

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[https://oscars-project.eu/open-call\\_s](https://oscars-project.eu/open-call_s)



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The **ESCAPE data-related activities** are now grouped as:

- Distributed data management,
- Data access and data analysis frameworks,
- AAls and cyber security.

Three **draft documents** (“straw-dogs”) were shared among the community and a small workshop was scheduled last month for each of the activities.

From these mini-workshops the **short- and medium-term plans** are being discussed and agreed. The responsible person in each activity will be scheduling further meetings soon.

Alignment with the OSCARS project is part of this discussion.



**WARNING:** THIS SLIDE MAY CONTAIN INACCURATE INFORMATION



Anticipate developing and testing of **Analysis Facilities** at CERN.

### Desired feature-set:

- Support **interactive analysis** (rapid iterations) on large datasets.
- Allow interactive workloads to be converted and run on **batch systems**.
- “Cloud bursting”-style **adoption of WLCG** to scale beyond capabilities of the facility (as necessary).
- Support efficient training of **machine learning models**.
- **Reproducibly** instantiate desired software stack.
- Collaborate in a **multi-organisational team** on a single resource.

**Example:** adoption of **Rucio JupyterHub plugin** at an analysis facility.



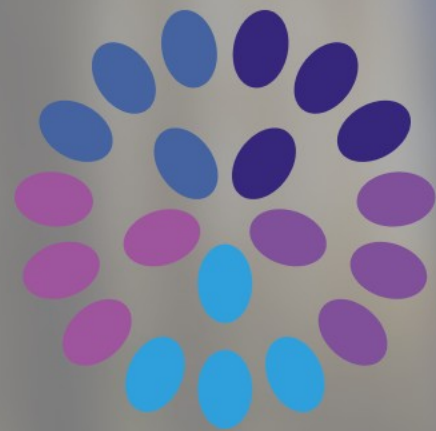
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- OSCARS is **25 M€ project**, over four years: 2024-01-01 / 2027-12-31.
- It is based on the **Science Clusters** concept, with a goal to facility FAIR and open science.
- Core **OSCARS activities** include: building Community Competency Centres, enhancing existing services and funding “seed projects” (16 M€ of 25 M€).
  - First call is now closed. Second (and final) call will open 2024-11.
- WLCG is represented (in OSCARS) by CERN.
- The anticipated benefits for WLCG are improvements to data-management, AAI/security and analysis facilities.

My thanks go to **Giovanni Guerrieri** and **Enrique Garcia** for their valuable input when preparing the ESCAPE-specific slides.

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OSCARS

Thank you



European Research Infrastructure  
on Highly Pathogenic Agents



UNIVERSITEIT VAN AMSTERDAM



University of Ljubljana



universität  
wien





**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**





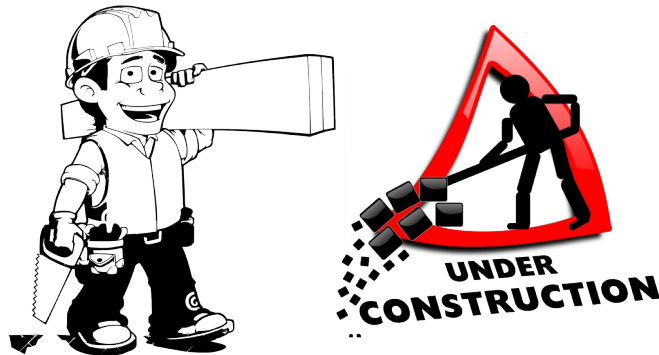


### **TASK 2.1 – CONSOLIDATION**

- Inventorise the Services and FAIR Data portfolios offered by each of Science Clusters
- Undertake a gap analysis to identify where these offerings may be made composable

### **TASK 2.2 – COMPOSABILITY**

- Identify and select a set of services which, when improved, will provide the basis for their Composable Open Data and Analysis Services (CODAS).



### **TASK 2.3 – ENGAGEMENT**

- Each Cluster will build 1-2 exemplary “Composability demonstrators”
- Engage researchers in order to encourage uptake and solicit feedback

