OSCARS

In a Nutshell

OSCARS is a four-year Horizon Europe project that will foster the uptake of Open Science in Europe by consolidating the achievements of world-class European Research Infrastructures (RIs) in the ESFRI roadmap and beyond into lasting interdisciplinary FAIR data services and working practices.

Fostering the uptake of Open Science in Europe

OSCARS will strengthen the role of the Science Clusters (SCs) in the European Research Area (ERA) by developing **Community-based Competence Centres (CCCs)** and **Composable Open Data and Analysis Services (CODAS)**, and by fostering the implementation of **Open Science projects and services** funded through a cascading-grant mechanism.

www.oscars-project.eu

OSCARS

Consortium

OSCARS
Open Science Clusters' Action
for Research & Society

www.oscars-project.eu

Led by:

SCIENCE-CLUSTERS.eu
Research Infrastructures for Open Science

Setup and implementation of

Clusters' Open Science Competence Centres (CLOCCs)

Community-based virtual hubs dedicated to fostering research excellence through training and knowledge transfer, and providing expertise, best practices and services in relation to Open Science.

OBJECTIVES

- Support researchers and RIs
- Foster communication and collaboration for Open Science between RIs in the Science Clusters (SCs) and across the SCs
- Create a collaborative network to provide expertise, best practices and services in relation to Open Science
  - ★ Registry of data stewards
- Promote cross-disciplinary collaborations for Open Science
- Set up a common dashboard model and a mentoring strategy to support the efforts of SCs in training, and to disseminate skills and best practices.

Identify and provide

Composable Open Data and Analysis Services (CODAS)

accessible via

Virtual Research Environments (VREs)

OBJECTIVES

- Provide portfolios of Clusters' Services and FAIR Data Sources.
- Undertake a survey to identify where services may be made composable.
- Identify and select a set of services for further development, to provide the basis for CODAS.
- Build 1-2 "Composability demonstrators" per Science Cluster.

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Contribute to the

EOSC Federation for science, research and innovation

Pursuing the creation of

Pan-European research-enabling value-added services

OBJECTIVES

- Involve a broad range of research communities in Open Research via the development of new **Open Science projects and services** to drive the uptake of FAIR data-intensive research throughout the ERA.
- Engage with existing networks, projects, international fora and working groups contributing to the implementation of the EOSC Federation as a “Web of FAIR Data and Services for Science”.

€ 16 MILLIONS

IN OPEN CALLS FOR

OPEN SCIENCE PROJECTS AND SERVICES

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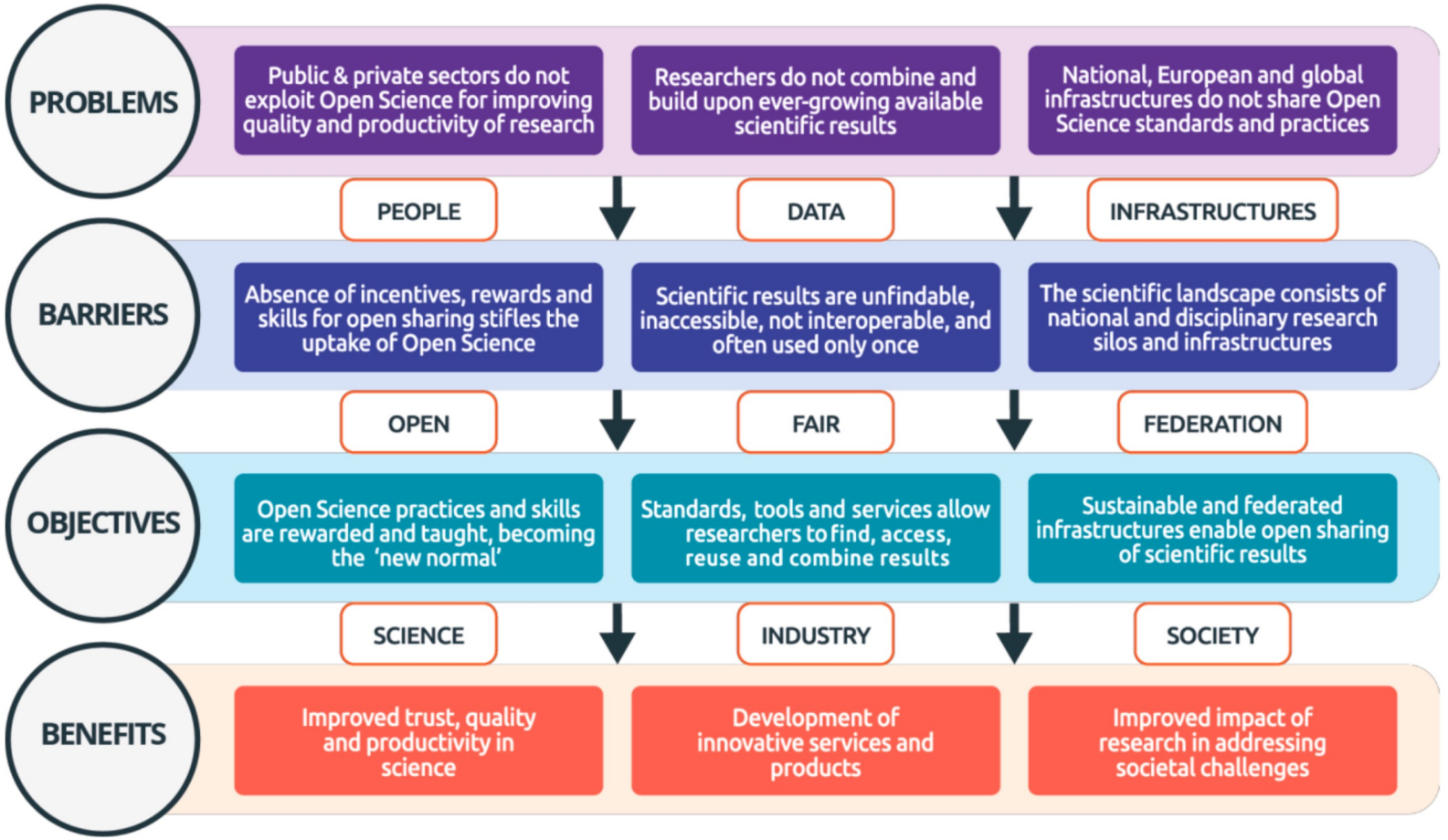
SRIA - Strategic objectives of the European Open Science Cloud



SRIA - Strategic objectives of the European Open Science Cloud

EOSC Objectives Tree … and some of the Science Clusters' (SCs) contributions through OSCARS and other actions.

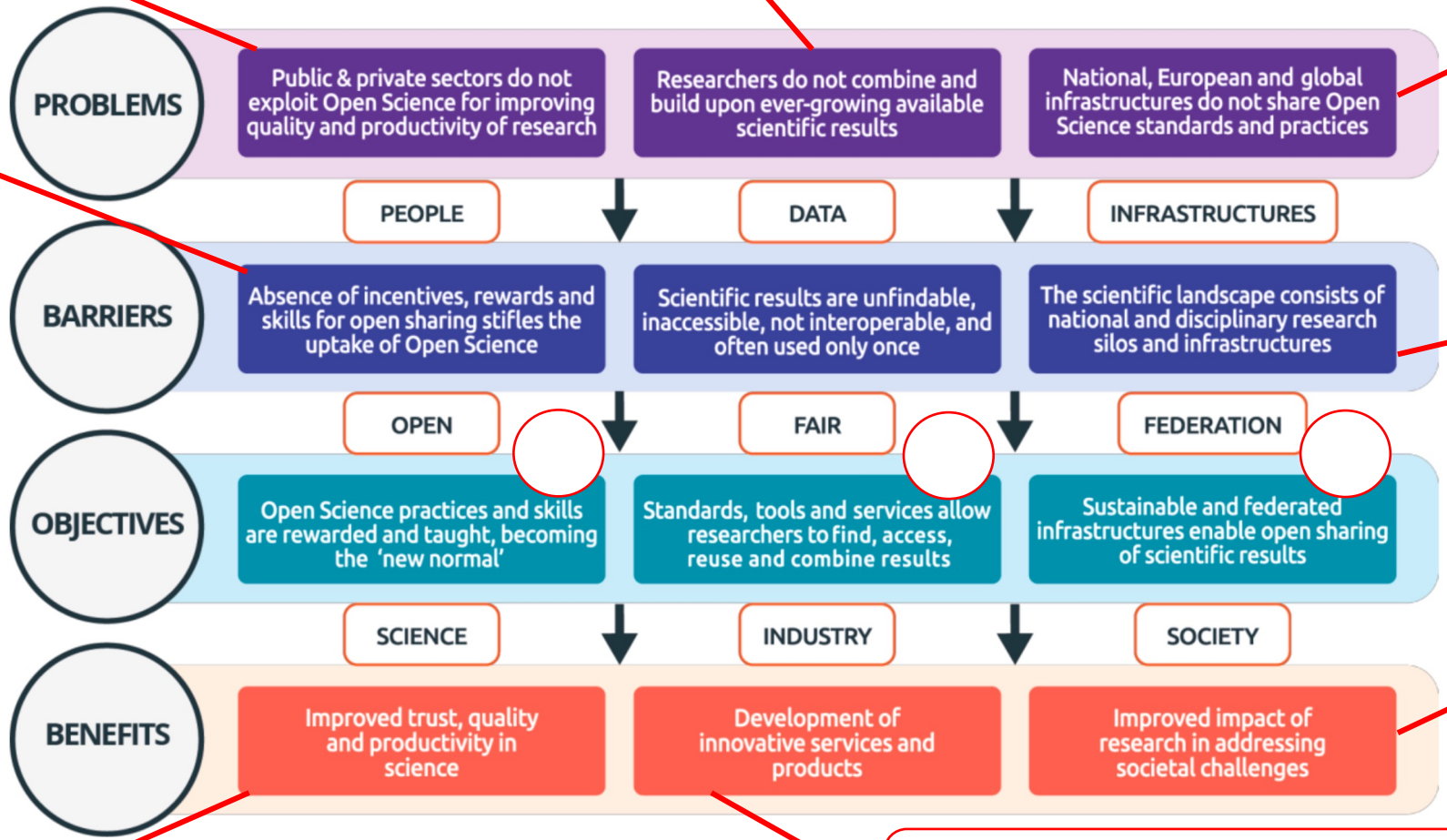
SCs commit in:
- Citizen Science Projects;
- Training events and high-level schools;
- Mentoring for OS and data stewardships.

SCs Competence Centres and the Virtual Institute for Software Research (VRE) are ultimate solutions for addressing this problem.

SCs ESFRIs communities together aim at economy of scale solutions among national agencies, develop EU domain-based as well as cross-domain practices.

The SCs' framework offers outstanding cross-collaboration incentives against barriers; fostering innovation in data science, software and training.

EU commitment in ESFRIs requires disciplinary focus. SCs have strengthened the disciplinary objectives while deploying cross-fertilisation to align intents and a long-term vision : a federation of EOSC SCs Nodes.



Cascading Grant call projects target scientific and societal benefits.

SCs action has contributed to improvement of practice and quality of data production of concerned RIs (and all future Cascading Grant call projects).

Many of them are the results of the SCs' work programmes, as well as of the Cascading Grant call projects for innovative open services. One on top of all is the "VRE" that would address exhaustively this objective (although the involvement of industry is not the main goal).

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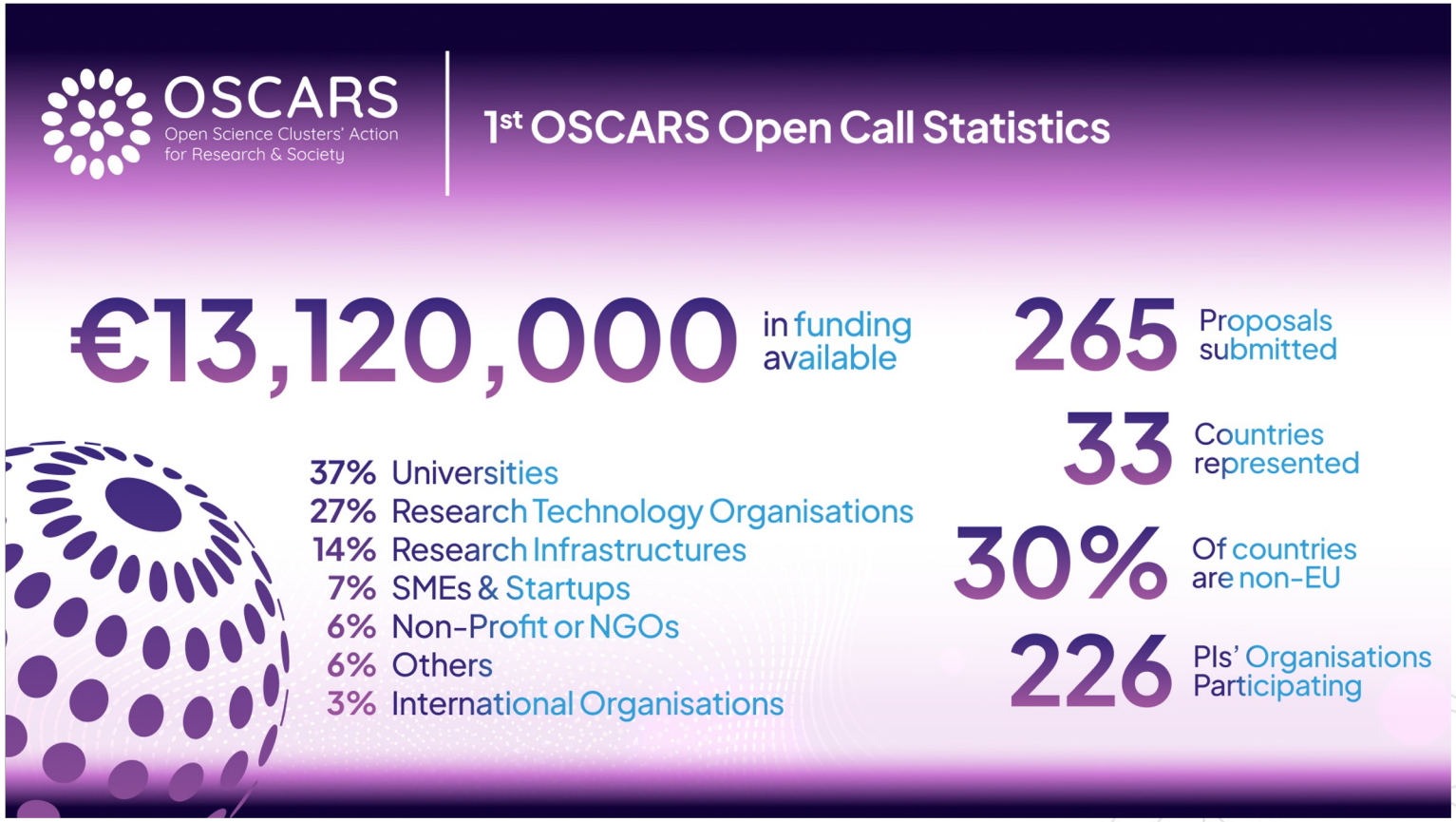
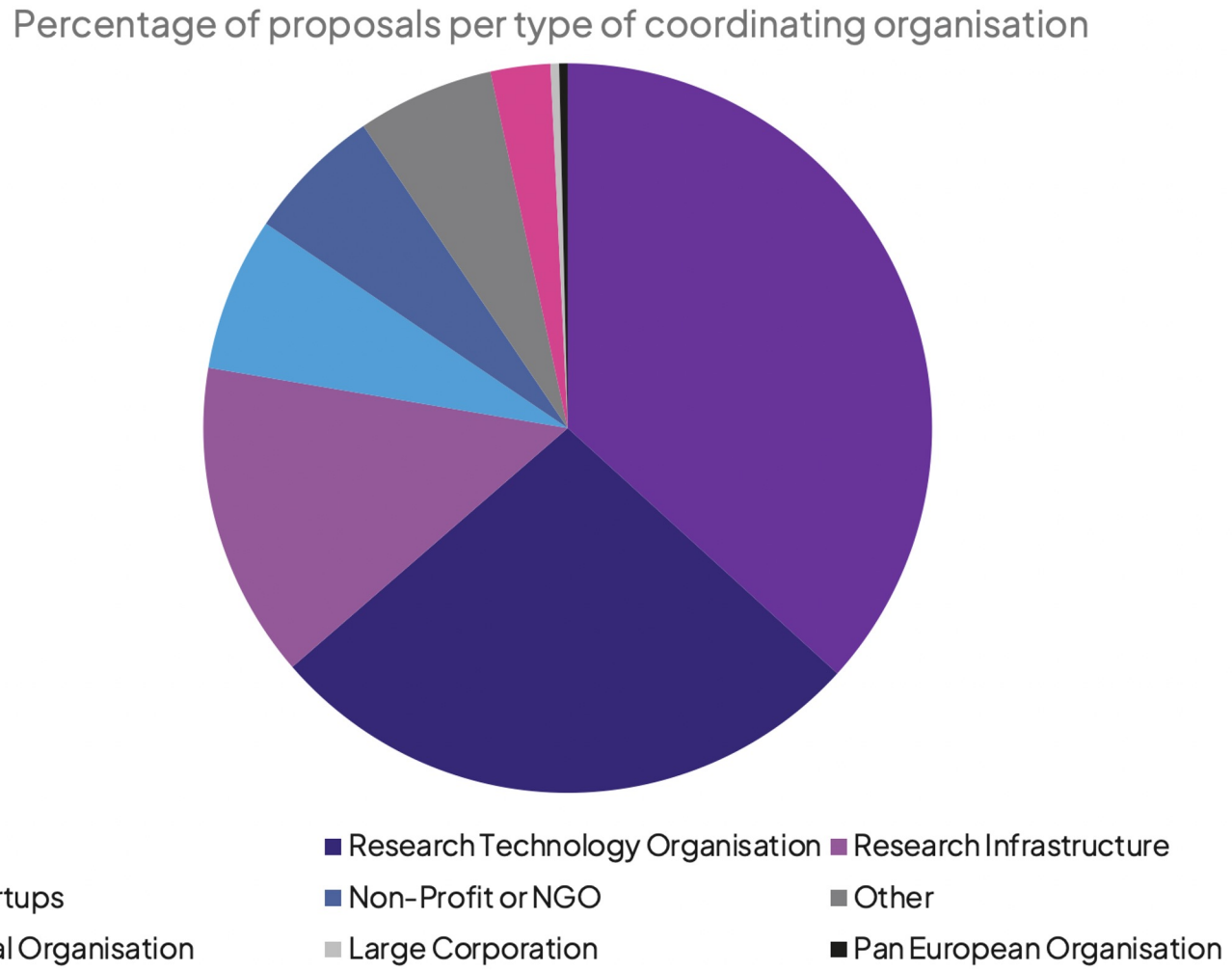
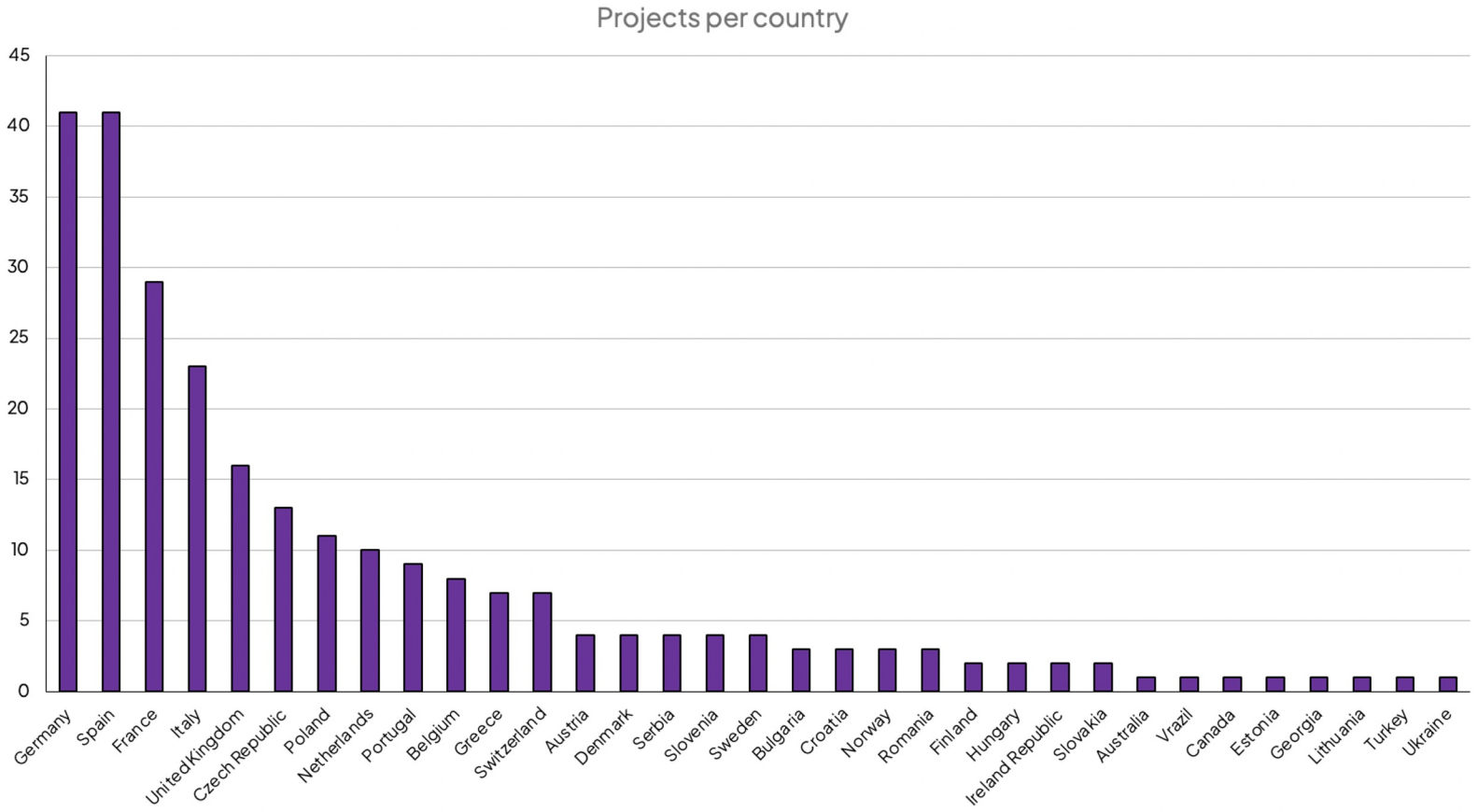
First statistics from the 1st Open Call



First statistics from the 1st Open Call



First statistics from the 1st Open Call – Coordinating organisations



Key impacts and deliverables

OSCARS

- **Operational Cluster-based 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;
- Setting up of a collaborative network to provide expertise, best practices and services in relation to Open Science;
- 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.
- Build-up and deployment of **EOSC Science Cluster Nodes**

Dependencies and Collaborations

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Collaborations established with other projects/initiatives relevant for the development of the EOSC

EVERSE

Open Data and Analysis Services / Virtual Research Environments

BEYOND

Contribution to the definition of EOSC Nodes and their federation, requirements for EOSC Core services from a use case perspective and integration activities.

Skills 4 eosc

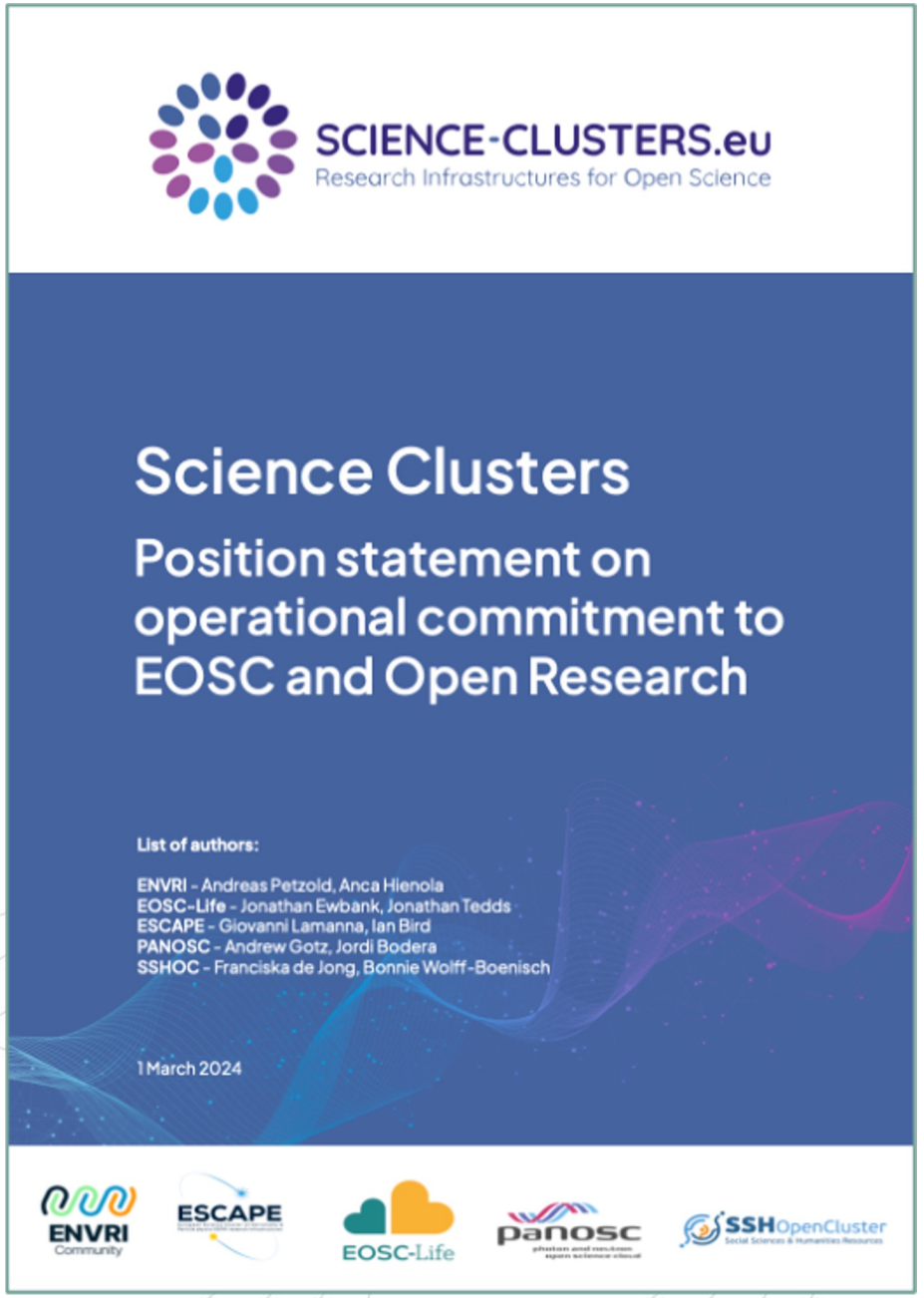
Open Science Competence Centres, Training, Best practice

More to follow…

OSCARS vision

The ESFRI Science Clusters, operating as a cluster of clusters in projects like OSCARS and EVERSE, have released the **Science Clusters Position Statement on operational commitment to EOSC and Open Research**, which articulates the Science Clusters' vision for the future towards the successful implementation of the EOSC, as the result of five years of collaborative efforts, including interactions with the European Commission, EOSC Association, ESFRI-EOSC task force, and e-Infrastructure Reflection Group (e-IRG).

[Read the position paper here]



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