

## (Remote) OSCARS: Consolidation of Services in the Photon and Neutron Open Science Cluster

*Tuesday, March 18, 2025 5:00 PM (30 minutes)*

The EU project OSCARS (Open Science Clusters' Action for Research and Society) brings your research data to new audiences and targets new use-cases in a broad range of scientific clusters including Photon and Neutron Sciences (PaN). As recommended by a new White Paper (submitted to IUCrJ) from the user organisations, ESUO and ENSA, adherence to the FAIR principles (Findable, Accessible, Interoperable, Reusable) facilitates the use of research data in novel ways, with increased citations acknowledging original researchers and facilities that provided that data. Further, increased (meta)data and software findability and accessibility promotes a better use of resources by reducing the duplication of experiments.

We are currently engaged in the Consolidation task by cataloguing existing services and data sources, aiming to highlight common approaches between the clusters and to identify "composable" services. For the PaN Open Science Cluster (PaNOSC) this will create such a portfolio from scratch starting with link collections from the most relevant Research Infrastructures (RIs) of PaNOSC, e.g. LEAPS, LENS, and European Research Infrastructure Consortia (ERICs). The representatives of the different RIs within the PaNOSC Competence Center (also established within OSCARS) contributed significantly by adding new resources and also by completing information on already listed resources (e.g. TRL, licences). Currently, the portfolio contains more than 500 resources.

The portfolio provides the basis to identify services required for a specific task within a specific research scenario. We are currently collecting PaNOSC-typical scenarios that can be simplified by composing and slightly adapting the involved services. One or two scenarios will be realised as demonstrators within the project. The services and data sources could be onboarded to the thematic PaN EOSC node, which is being proposed as candidate node of the EOSC Federation.

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**Session Classification:** Virtual Research Environment (VRE)

**Track Classification:** Track 5: Virtual Research Environment (including tools, services, workflows, portals, ... etc.)