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Building a PaN analysis platform using EOSC

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The European Open Science Cloud (EOSC) is a key framework through which the EC is fostering the collaboration and interoperability of scientific research across domains to make services and data easily accessible to a broader audience and benefit from synergies.

The EC is establishing the EOSC by funding a series of projects, supporting either individual science domains to get up to speed with distributed cloud mechanisms and by encouraging multiple domains to collaborate and build there analysis stack on core EOSC services. EOSC-Future is one of the latter.

The activity within EOSC-Future is divided between work that applies generally and individual projects that each target a specific scientific domain. One such domain-specific project is building a Photon and Neutron (PaN) analysis platform. This project is building a service through which researchers may take advantage of EOSC services and resources when analysing data from various PaN facilities in Europe.

In this paper, we provide an overview of EOSC and EOSC-Future before describing the EOSC PaN analysis platform. The design and underlying architecture is presented together with the initial analysis use case. Some examples are given that demonstrate, concluding with a road-map for the services future.

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