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ESRF Data Strategy (Participant)

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The ESRF Data Strategy aims at fully exploiting the potential of the 4th generation ESRF-EBS towards a fully data-centric approach. More specifically, it includes more efficient tools for data processing and data analysis, further development of metadata for an increased usability of data sets together with improved automation workflows and AI exploitation of data, as well as increased data FAIRness resulting in an increased re-use of data sets.

I will present the ESRF data strategy implementation status, introducing in particular recent software developments and how they fit into a consistent approach encompassing the entire data life cycle from beamline control (BLISS), advanced detector management (Lima2), e-Logbook, workflow management including feedback loops (EWOKS), remote data analysis (VISA), data catalogue (DRAC).

I will also briefly discuss the present status of the involvement of the ESRF in DAPHNE4NFDI. The ESRF is going to coordinate the future Photon and Neutron EOSC node which might offer new opportunities for increased collaboration with DAPHNE4NFDI and German National photon and neutron sources.

Primary author: DAILLANT, Jean (ESRF)

Presenter: DAILLANT, Jean (ESRF)

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