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## Facility update from European Spallation Source (ESS) (Participant)

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The European Spallation Source (ESS) aims to fully leverage the potential of its state-of-the-art neutron facility through a data-centric approach. This includes advanced tools for data acquisition, processing, and analysis, enhanced metadata frameworks for improved data usability, increased automation in workflows, AI-driven data insights, and strengthened adherence to FAIR principles to maximize data reusability.

Recent software developments supporting this strategy span the entire data life cycle, including the SciCat data portal, remote data analysis platforms, and automated workflow solutions. Additionally, ESS is actively engaged in European data initiatives, including collaborations within the EOSC framework and PaNOSC, fostering synergies for open science and data interoperability.

I will present the envisioned ESS data journey, highlighting our software components and their integration across the entire data life cycle, from proposal to publication.

**Primary author:** BOLMSTEN, Fredrik (European Spallation Source (ESS))

**Presenter:** BOLMSTEN, Fredrik (European Spallation Source (ESS))

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