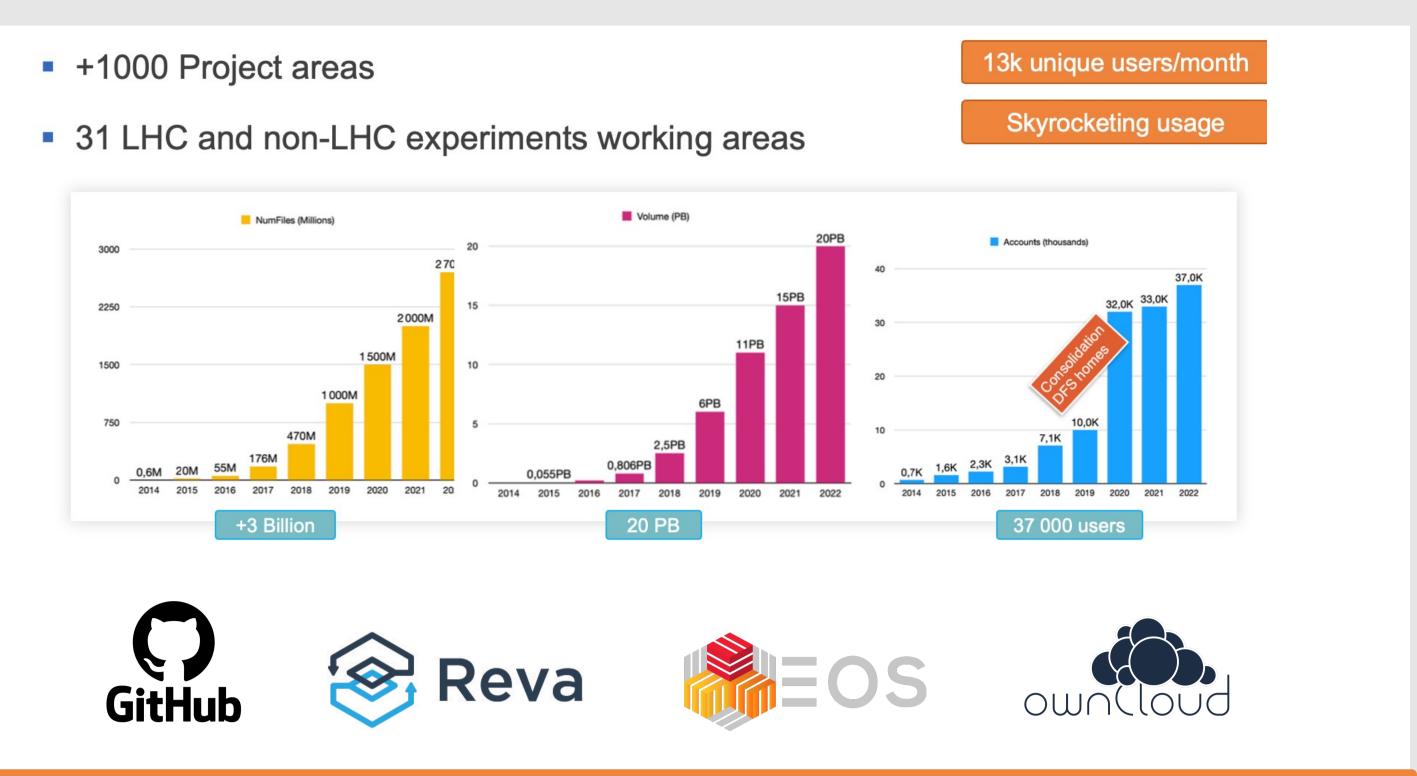
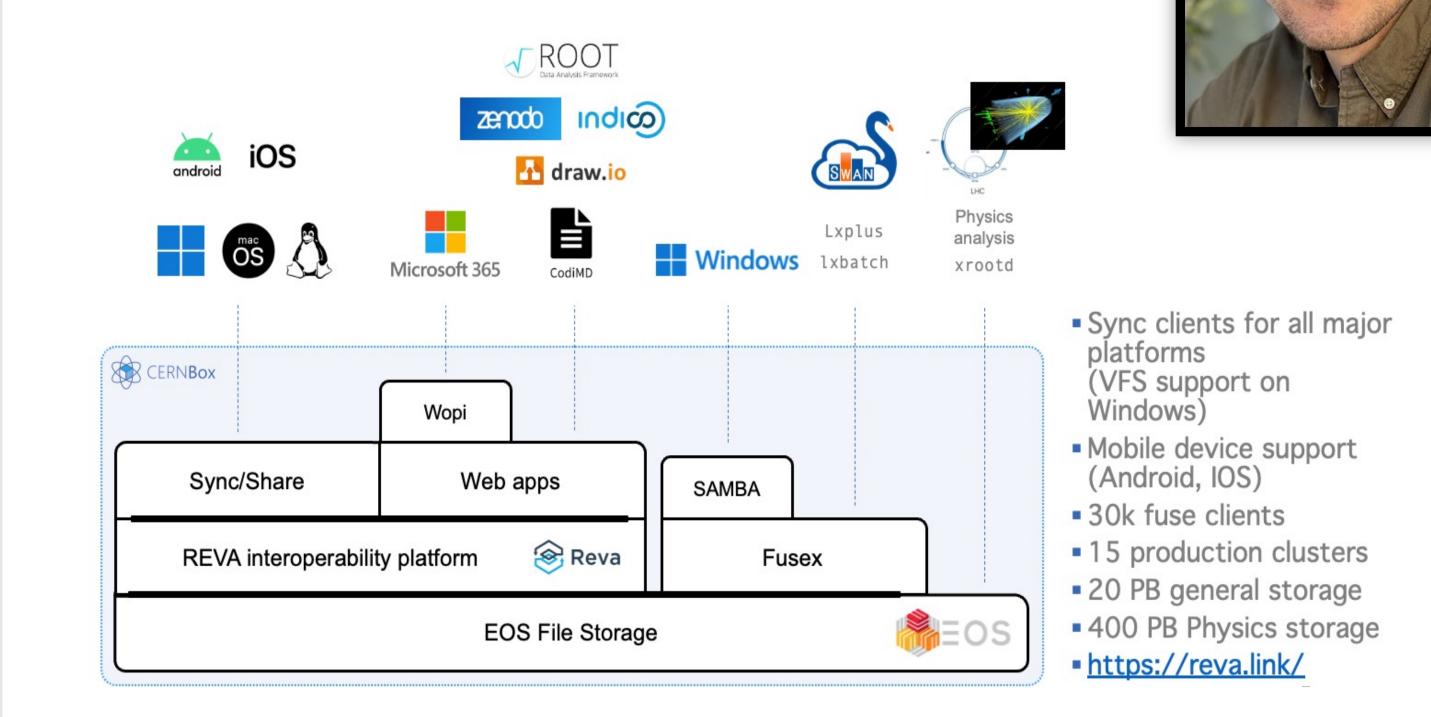


CERNBox: Storage gateway for CERN and beyond

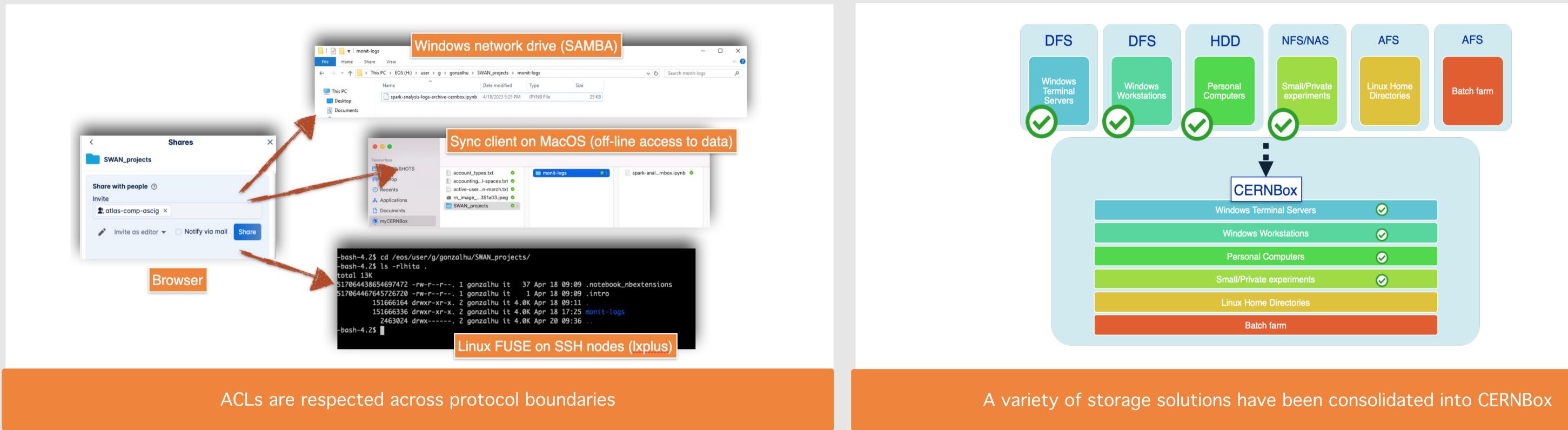
H. Gonzalez, S. Alfageme, E. Bagakis, S. Bukowiec, D. Castro, S. Chebbi, G. Del Monte, J. Ferrer, F. Furano, V. Guita, J. Iven, O. Keeble, G. Lo Presti, E. Ragozina, R. Valverde



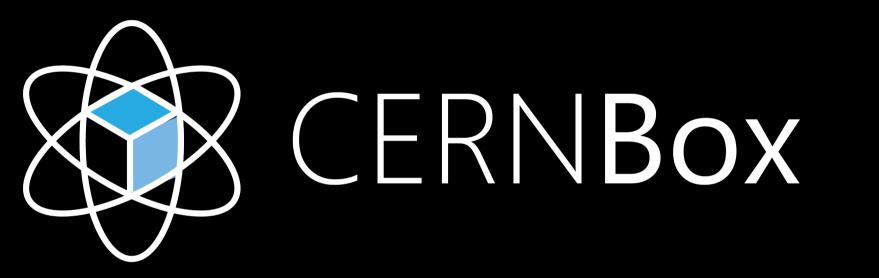


Successful evolution built on open source technologies: ownCloud, Reva and EOS

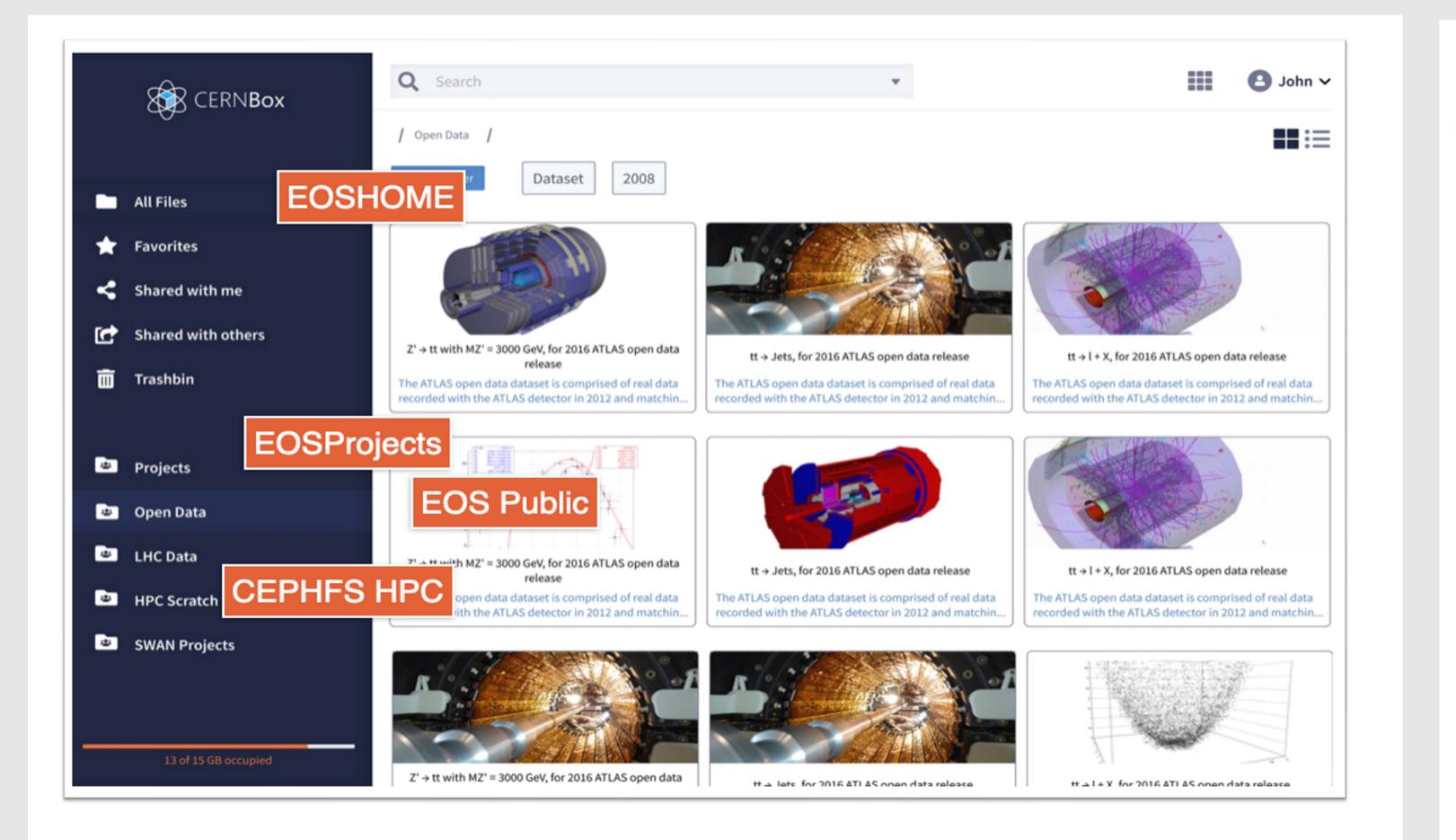
Flexible layered architecture



CERNBox is CERN's on-premises Scientific Cloud Storage Platform

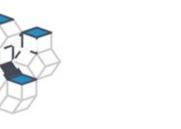


After 10 years running, the service satisfies the needs of 37,000 users at CERN, who store more than 20PB of data over 3 billion files

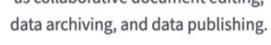


CERNBox is part of ScienceMesh

- Federated network of Cloud Sync and Share Services (EFSS)
- 300K user base (CS3 community) across Europe (SURF, WWU, DESY, PIC, SUNET, ...)
- Product of EC H2020 funded project CS3MESH4EOSC
- Reva provides access to the mesh thanks to standards protocols (OCM, WebDAV) OPENCLOUDMESH

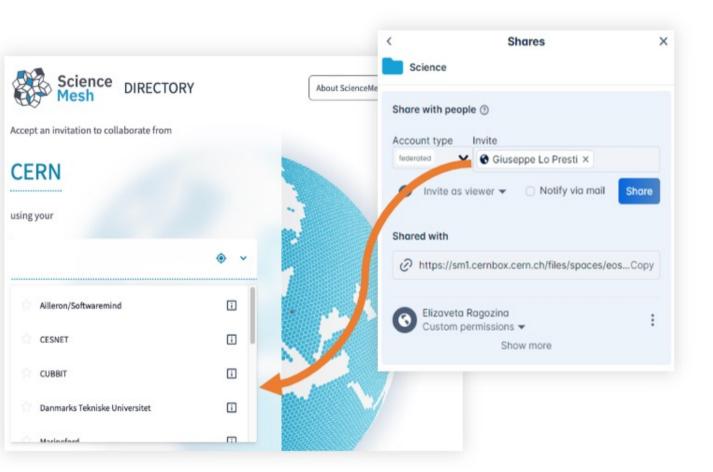








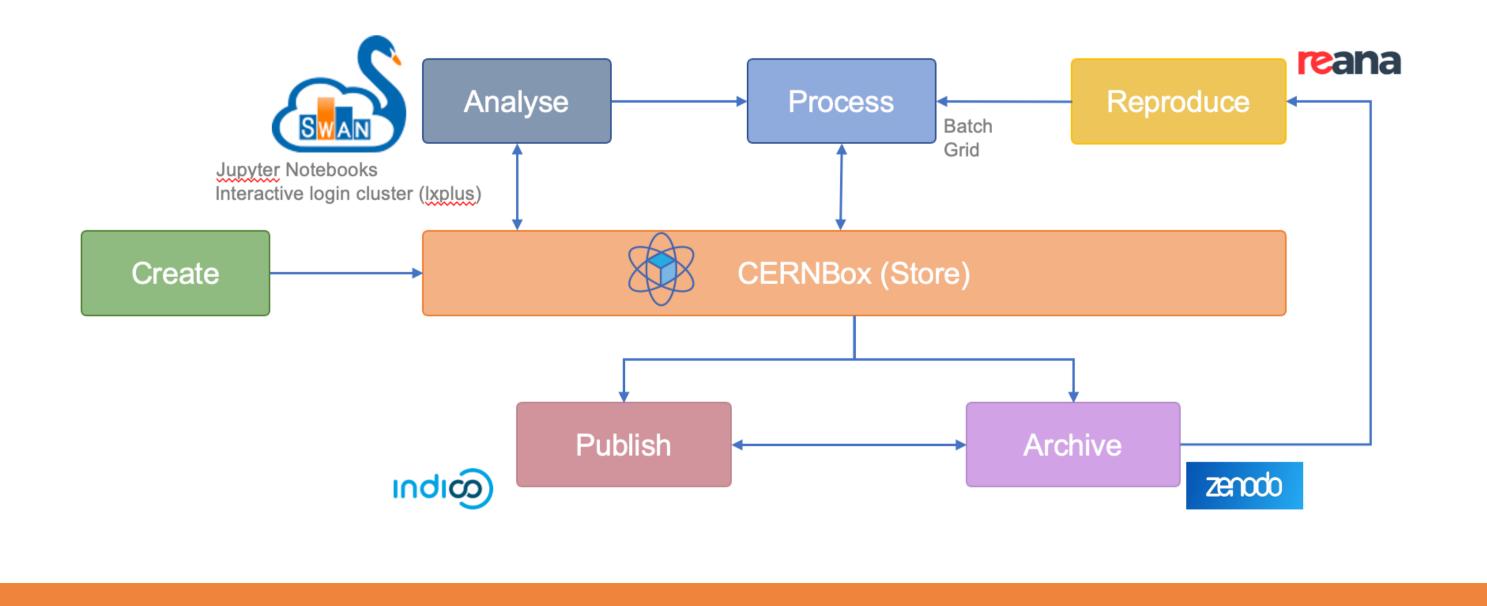
Fast transfer of large datasets from Remote data analysis through syncone site to another. and-share services.

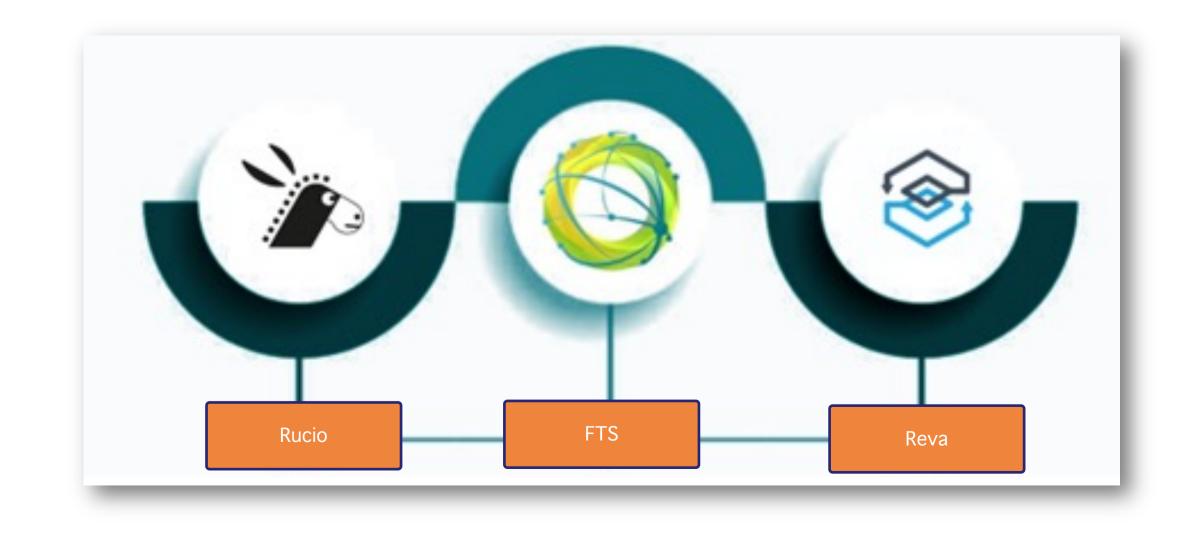


CERNBox provides access to personal and project areas. We are extending support to all Physics data stores and CephFS-based HPC areas

CERNBox allows local users to share their data with remote collaborators by leveraging the Open Cloud Mesh protocol







CERNBox is an integration tier for Research Data Lifecycle services

CERNBox integrates with Data Management technologies like Rucio and FTS to transfer large amounts of data thanks to EOS. It also supports TPC (Third-Party-Copy)

CHEP 2023, Norfolk, EE. UU

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