Why Science Mesh is relevant for EOSC?

Combining these various systems and services into a joint, coordinated service, where users in research and academia can collaborate seamlessly, would boost open-science at a pan-European level.

CS3MESH4EOSC has developed the Science Mesh (sciencemesh.io), a data storage and sharing mesh that connects locally and individually data sharing and synchronization service providers, scaling them up at the European level and beyond.

The Science Mesh is field agnostic, meaning it is a horizontal service that serves multiple science communities at once. This is contrary to e-infrastructure services, which are focused on specific science fields.

Science Mesh data services can also be integrated with additional science applications from other researchers, rendering the overall Science Mesh service offering even more attractive to end-users. This is due to application plugins that ultimately allow for increased capacity for expansion.

An Open Science Platform suitable for diverse research communities

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Borderless research environment for Europe and beyond. Easily sync&share data, deploy applications and access software through an interoperable federation of services

Cloud services for Synchronization and Sharing (CS3) are deployed in the research and educational space, mostly by e-infrastructure providers, NRENs (National Research & Education Networks) and major research institutions. However, these services usually remain largely disconnected, since they are developed and deployed in isolation from each other, compromising the efficiency of daily workflows for hundreds of thousands of users.

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The European Open Science Cloud (EOSC) aims to be an environment for hosting and processing research data to support European science. A messenger service for communities that are organised and already have an infrastructure for their own community (i.e., a portal and other services) at their disposal. The Science Mesh, as an ecosystem for bilateral scientific collaboration, aims to unite in EOSC.

The Science Mesh (sciencemesh.io) is a service for bilateral scientific collaboration, allowing for seamless data sharing and movement across different nodes and services.

Stay tuned with the latest CS3MESH4EOSC & ScienceMesh news to follow how it is making friction-free data collaboration in Europe a reality.

Learn how to join the Science Mesh! Watch the demo

Understanding how the Science Mesh is unlocking scientific collaboration through technology in Europe. Watch the video.

Connecting European Data

Interactive & agile/responsive sharing mesh of storage, data & applications for EOSC

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The Science Mesh is a federation of EFSS (Enterprise File Sync and Share) storage services and interconnects existing data repositories in an interoperable way, allowing an easy, frictionless scientific collaboration between users from different institutions, while also providing access to research services where data, applications, and computation are brought together.

Researchers, educators, data curators, and analysts can retain control over their remote or domestic datasets, while easily sharing and working on data across services with peers from other institutions. The Science Mesh can be used by individual researchers who are not connected to an organized research infrastructure or have their own E-infrastructure.

Who should use the Science Mesh?

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Become a user

Add your local Sync and Share system as a node

How to add your software tool within the services categories

SERVICE 1
Data Science Environments

SERVICE 2
Open Data Systems

SERVICE 3
Collaborative Documents

SERVICE 4
On-demand Data Transfers

Understand how Science Mesh is unifying European Data Services, check our Use-cases