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## CS3MESH Introduction

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Cloud storage services for synchronisation and sharing are an indispensable element of the daily workflow routine, allowing research groups, scientists and engineers to share, transfer and synchronise data in simple but powerful ways. The services are operated and funded by major e-infrastructure providers such as the National Research and Education Networks and major research institutions. However, these services remain largely disconnected from each other. The EU-funded CS3MESH4EOSC project will integrate the existing application and storage ecosystem by promoting vendor-neutral application programming interfaces and protocols. State-of-the-art connected open-source infrastructure will provide researchers with a broader access to services and boost collaborative research.

CS3MESH4EOSC will implement a service for the European Open Science Cloud (EOSC) with a built-in sustainability model using the on-premise service delivery by utilizing existing key technology enablers: Open Cloud Mesh (OCM) standardized protocol and EduGAIN service. It will consolidate and integrate the existing application ecosystem following the open-source strategy for delivering services.

CS3MESH4EOSC will empower service providers in delivering state-of-the-art, connected infrastructure to boost effective scientific collaboration across the entire federation and data sharing according to FAIR principles. It will also help strengthening the role of European industry in delivering competitive cloud solutions on global scale. Finally, the project will deliver the core of a scientific and educational infrastructure for cloud storage services in Europe for research, education and public institutions.

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