

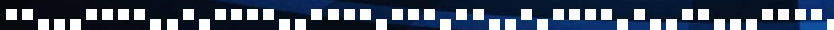


CS3MESH4EOSC

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3. 12. 2019



- Intro
- CS3 community
- CS3MESH4EOSC

- institutions (NRENs, universities, R&D centers ...) provide fancy and useful services
 - provided for end users/researchers
- services are "institutionally and nationally isolated"-impeding collaboration (local/international)
- difficult to use services across national/international institutions (sync&share, collaborative tools, large data sets transfers ...)
 - **users are pushed to use services like Google Disk - simple access and collaboration (just have Gmail account)**

- Cloud Storage Services for Synchronization and Sharing
- members: providers, developers and users of sync&share services
- various vendor technologies - Seafiler, DropBox, ownCloud, NextCloud, Jupyter Notebooks
- regular meeting once a year (since 2014)
 - **in 2020, 27-29 January, Copenhagen, DK**



- EU funded project for **significant improvement upon sync&share services** to be operated by EOSC
- starting in January 2020
- objectives
 - deliver a **global CS collaboration service** for European¹ research, education and public institution
 - provide **community collaboration platform** on technology applications, use-cases, software and operation
- 12 partners - NRENs, Universities, R&D centers, SME
- **CERN (CH)**, DTU (DK), SURFSARA (NL), PSNC (PL), **CESNET (CZ)**, AARNET (AUS), SWITCH (CH), WWU (DE), AILLERON (PL), CUBBIT (IT), JRC (BE), ESADE (ES)

¹Europe, Australia and beyond

- **connect existing self-sustainable sites and services**
- use existing authentication infrastructure
 - eduGAIN, eduTEAMS, EGI-CheckOut ...
 - close collaboration with GEANT, EGI, EOSC-hub
- use existing interoperability APIs and protocols
 - OCM, CS3APIs ...
- integrate Enterprise File Sync & Share and application technology stacks
 - close collaboration with all vendors
 - vendor neutral and vendor friendly
- connect to all relevant projects and initiatives, e.g. OpenAIRE

- CS3 community consists of 300k users
- key enabler is to offer a global interface layer among data storage solutions
- key capabilities
 - form collaborative groups composed of domestic and remote users
 - use tool sets available at remote sites in the same way as if they were available locally
 - no need to export data to remote systems to reach the functionality
 - easy deployment of various apps developed in various sites
 - full metadata awareness in the research workflows (FAIR)

■ Interactive Data Science Environments

- Jupyter Notebooks and services like SWAN (CERN)

■ Collaborative editing of Documents

- Only Office, Collabora Online, CodiMD ...

■ Open Data Applications

- Metadata collections, Open Data Publishing systems based on OpenAIRE

■ Distributed Processing Workflows and Large Dataset Sharing

- state-of-the-art protocols (e.g. S3), existing file transfer infrastructures (e.g. FTS, GridFTP ...)

- "collaborative workflows"- data transfers, sync&share, collaborative tools...
- ease and enhance the international collaboration for over 300k users in the CS3 community base
- vendor neutral and vendor friendly solution operated under EOSC umbrella
- environmental impact

■ Thank you for attention

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EVROPSKÁ UNIE
Evropské strukturální a investiční fondy
Operační program Výzkum, vývoj a vzdělávání

