



HYBRID EVENT

**22 June 2023**

11:00 - 17:45 CEST



Location: Poznan (Poland),  
*co-located with EGI Conference*

**Science Mesh** - Unlocking  
Open Science & Collaborative  
Research Landscape



**Maciej Brzezniak**

Storage and Cloud System Architect

*PSNC*

***Science Mesh User-story***

*Room Paris | 11:10-11:20 CEST*



# CS<sup>3</sup> MESH<sup>4</sup> EOSC

Connecting European Data



**Science Mesh** - Unlocking  
Open Science & Collaborative  
Research Landscape

## USER STORIES (INTRO)

*Maciej Brzeźniak (PSNC)*

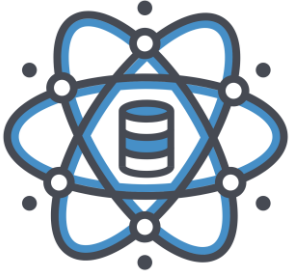
Users and applications workpackage



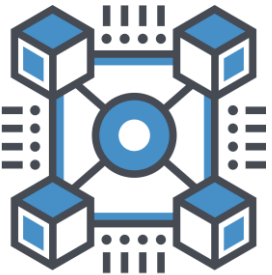
CS3MESH4EOSC has received funding from the European Union's Horizon 2020 Research and Innovation programme under **Grant Agreement No. 863353**.



26/06/2023



**Data Science  
Environments**



**Open Data  
Systems**



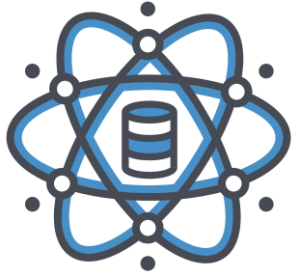
# Science Mesh



**Collaborative  
Documents**



**On-demand  
data transfer**



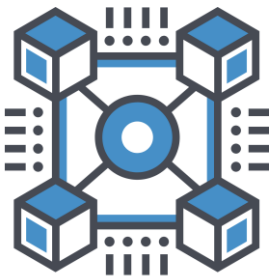
**Data Science  
Environments**



# Science Mesh



**Collaborative  
Documents**



**Open Data  
Systems**

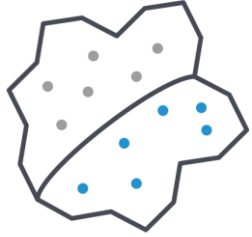
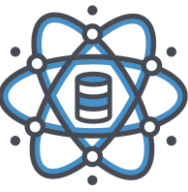


zenodo

Describo



**On-demand  
data transfer**



## Data Science Environment

### Idea / purpose:

- # Provide Data Science Environments embedded in sync & share systems
- # Ensure integration of data and compute
- # Improve Data Science processes performance and functionality
- # Facilitate conducting data-centric research: analysis and visualisation



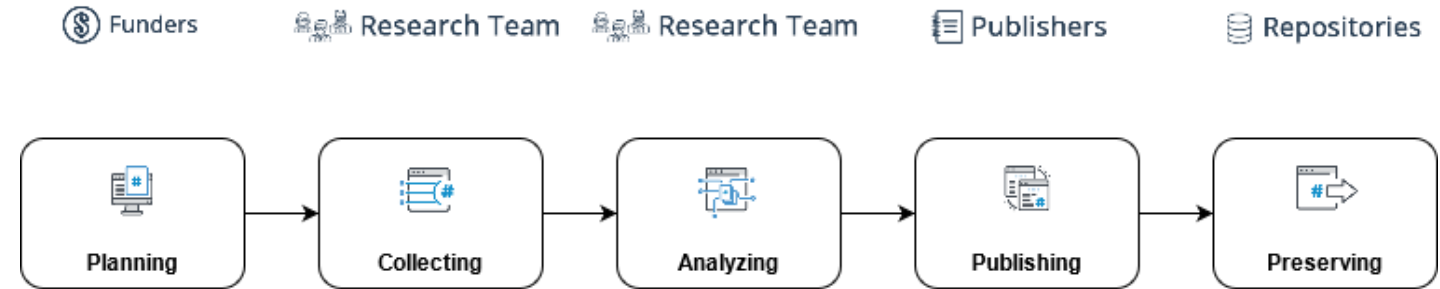




## Open Data Workflow

### The idea / purpose:

- # Integrated workflow, from creation to publishing
- # Create, collaborate, annotate and publish
- # Generate FAIR data
- # Based on battle-tested tools



Describo  RO-Crate



Describo

zenodo

  
ownCloud

  
Nextcloud



### The idea / purpose:

- # Enable cross-federation collaboration on content, real time, through the EFSSes
- # Improve the level of integration of collaborative document apps, e.g. running the partner's editors vs your local content
- # Provide 'community-specific' collaboration apps vs 'classical' ones, e.g. mark-down editors



COLLABORA



ONLYOFFICE



CodiMD



Reva

WOPI



ownCloud



Nextcloud



### Data Transfers

#### The idea/purpose:

- # Integration of data transfer into EFSS:
  - # enable ad-hoc data transfer, directly into or from user's data space
  - # remove manual steering of data flow (cumbersome, error prone)
- # Improve usability of the datasets:
  - # Researchers can easily stage-in/out datasets for their collaborative work
  - # External data sources (e.g. large instruments) are integrated into data-centric workflows





### Project partners:



### Early adopters:





**Thank you!**  
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