



**CS³
MESH⁴
EOSC**

Connecting European Data



**Democratising FAIRness
by
adding metadata
to**

a storage platform researchers love to use



**Science
Mesh**



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

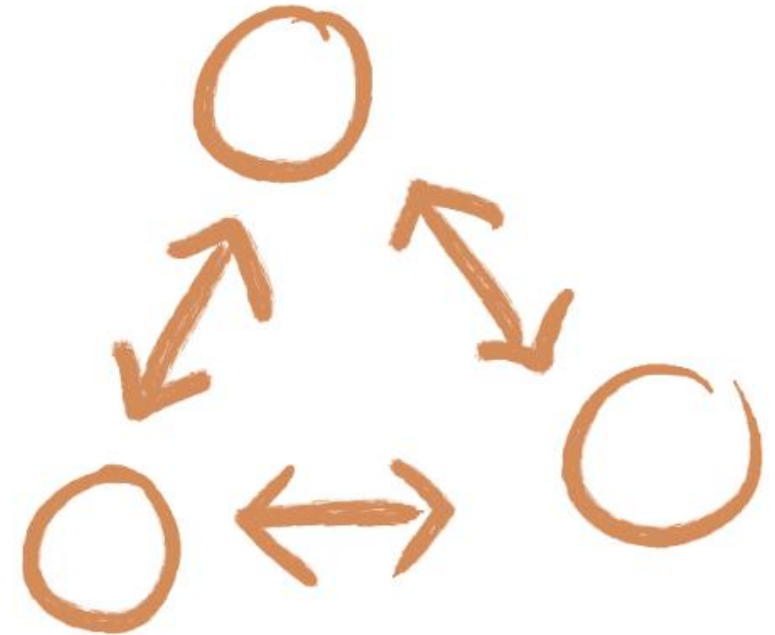
Guido Aben, OSFair, 22 Sept 2021



30/09/2021

“dropbox-like” services, or EFSS, are ever more popular with eInfra operators and users. However...

- # Researchers remain **isolated on data islands** because these services aren't interconnected
- # **no common, ratified API among sites**
 - # Hard to share add-ons between operators
 - # Hard to get traction with eScience community
- # **Suboptimal knowledge transfer** back to commercial and business environments. We can't make a joined-up front this way



3-year Project

- # Started **January 2020** (kick-off meeting in Copenhagen)

Objectives

- # Building, operating and developing governance for a **Decentralized Mesh of EFSS nodes**
 - # for researchers, educators, data custodians, analysts...
- # Developing and integrating into said Mesh an **interoperable platform** to easily share and deploy applications and software components
- # Leveraging the **potential of the Community** of NREN Operators of Cloudstor-like services and expanding it (“the CS3 community”)

Split in 5 Work Packages

Led by **CERN**





**Data Science
Environments**



Open Data Systems

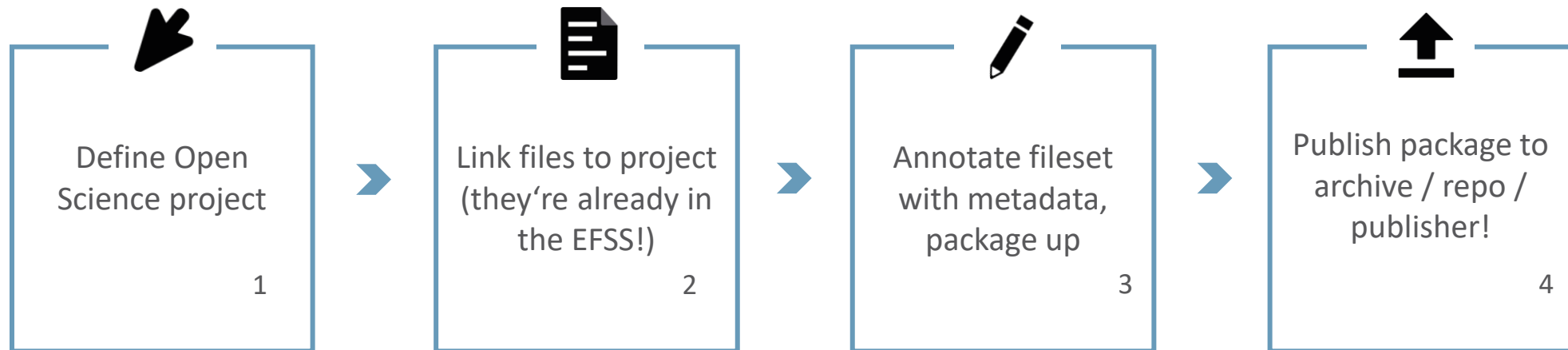


**Collaborative
Documents**



**On demand large
dataset transfer**

So we have an EFSS full of live research data –
how can we get more value out of that?
FAIR and Open Science seem tantalisingly close!



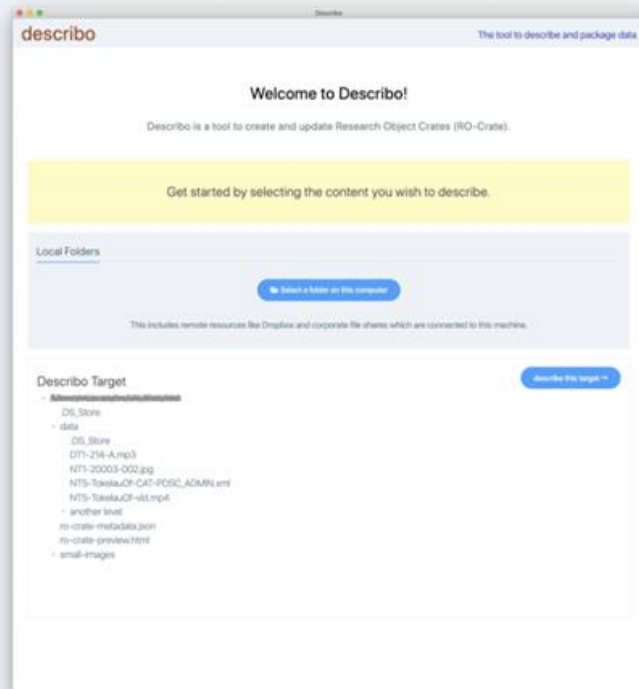
 OSF **zenodo**

...

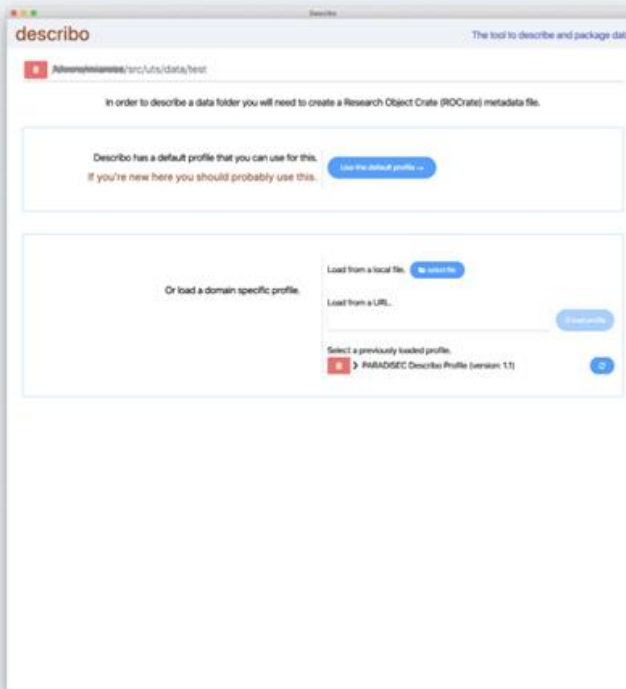
Describo

The tool to describe and package data.

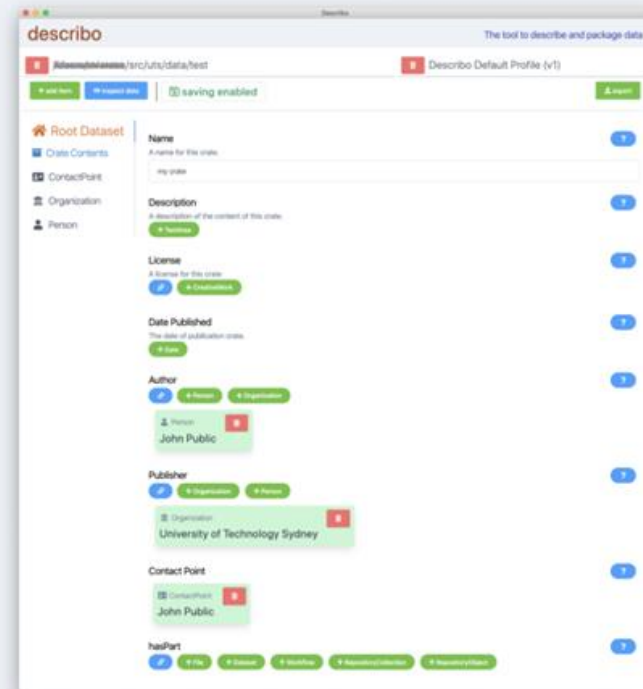
Describo is a tool to create and update **Research Object Crates (RO-Crate)**



Select a folder to describe.





Select a profile.



Describe your data.

User Interface & Digital Nudging Example

	Größe	Geändert
...	58 MB	gestern
...	35 KB	vor einem Monat
...	988 KB	17.12.2028
	6.8 KB	

 Documents 
★ 35 KB, vor einem Monat

Gemeinschaftliche Tags

Aktivitäten Kommentare Teilen Publizieren

Please select all Services, which you want to use for your Synchronisation

Zenodo
 Openscienceframework

Publish

 Publizieren

Support Open Science 

Bringen Sie die weltweite Forschung voran und teilen Sie Ihre Daten mit anderen Forschern! 



<https://sciencemesh.io>

<https://gitter.im/sciencemesh/community>

<https://github.com/sciencemesh>