

EUDAT OVERVIEW

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eudat.eu



@eudat_eu

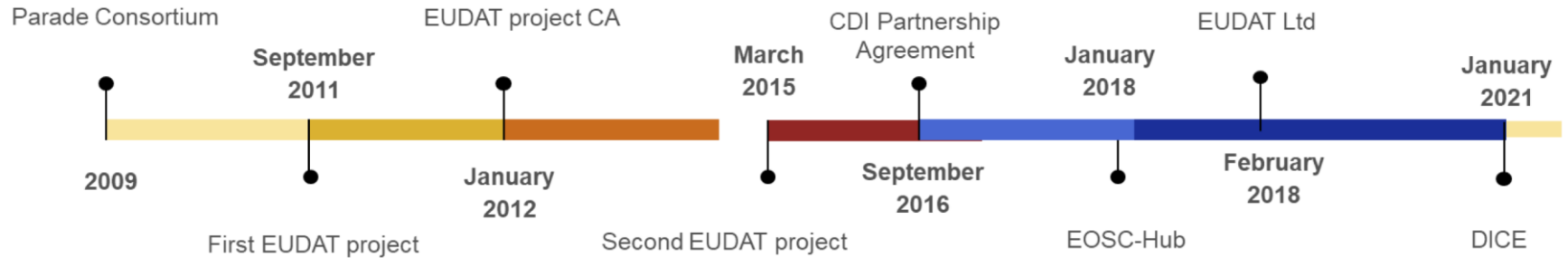
- EUDAT Collaborative Data Infrastructure (CDI) is one the major European e-infrastructures supporting research
- EUDAT provides a set of interoperable services that focus different phases of the research data life cycle

EUDAT's vision:

Data is shared and preserved across borders and disciplines



History of EUDAT



Riding the wave

How Europe can gain from the rising tide of scientific data

Final report of the High Level Expert Group on Scientific Data
A submission to the European Commission

October 2010

Research data management

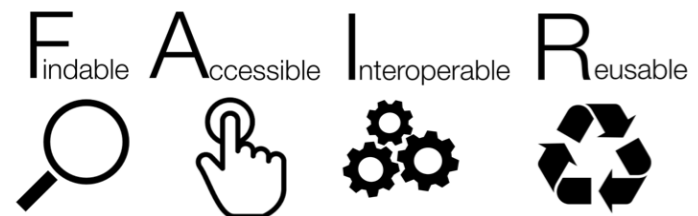
Data management is a set of practices to handle collected and created information. It consists of a wide range of practices, concepts, procedures, processes, policies, and of accompanying systems. It enhances the value of data by making it interoperable, easier to find and understand, less likely to be lost, and more likely to be used and reused during original use and beyond.

Enabling good research data management requires

- Policies
- Skills and support
- Services and infrastructure

TURNING
FAIR INTO
REALITY

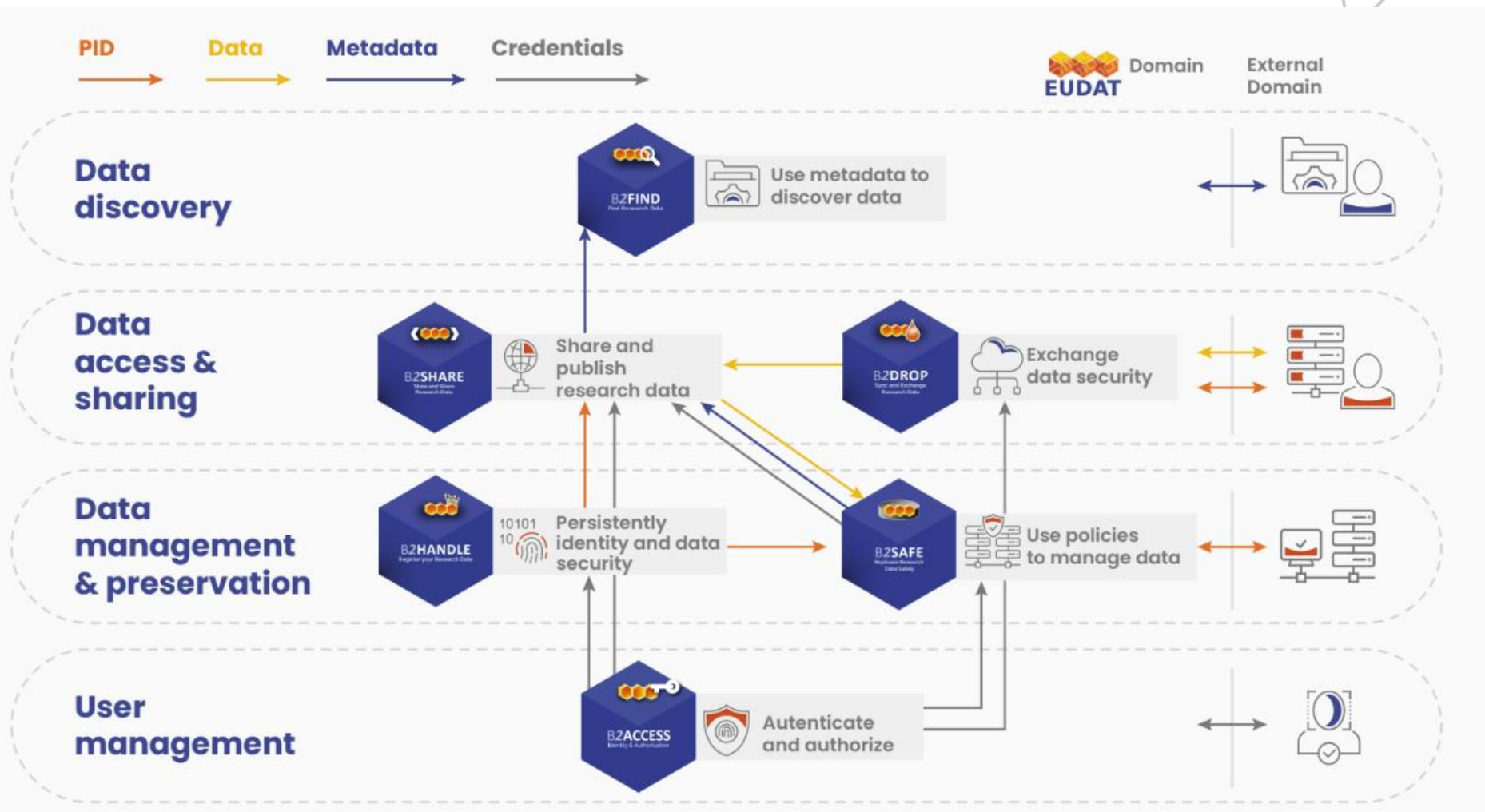
<https://doi.org/doi:10.2777/1524>



The EUDAT Service Suite

<p>B2ACCESS</p> <p>B2ACCESS Identity & authorisation</p> <p>View service</p>	<p>B2DROP</p> <p>B2DROP Sync and share research data</p> <p>View service</p>	<p>B2FIND</p> <p>B2FIND Find research data, research data portal</p> <p>View service</p>
<p>B2HANDLE</p> <p>B2HANDLE Register your research data with a persistent identifier</p> <p>View service</p>	<p>B2SAFE</p> <p>B2SAFE Keep research data safe via data management policies</p> <p>View service</p>	<p>B2SHARE</p> <p>B2SHARE Store and publish research data</p> <p>View service</p>

The EUDAT Service Suite



Use cases

Home » Use cases



Blue-Cloud provides cross-domain marine data with EUDAT's B2FIND



eliance
oHub

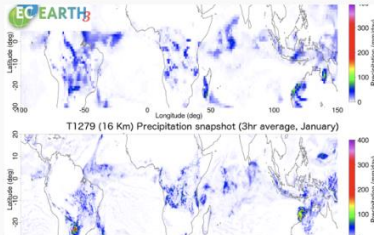
EUDAT services in ROHub for storage of scientific artefacts and publication of research objects



Data Management in CompBioMed using EUDAT services



European Network for Earth System Modelling



Data storage and preservation of high resolution climate experiments



EUDAT services to guarantee long time archiving and visibility to the repository of IST Austria



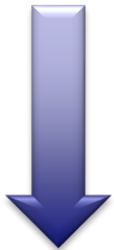
Linked Data service pilot



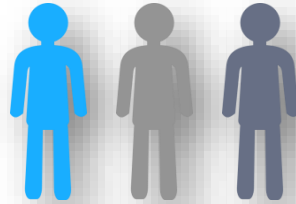
A distributed infrastructure for life-science information



Single researcher



Upload and
download



Team



Upload, add
metadata, share



Community



Periodic transfers,
quality checks ...

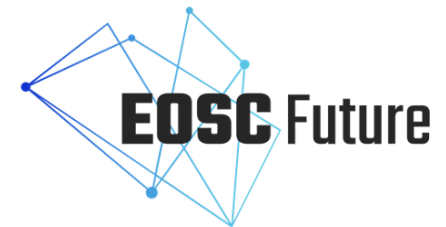
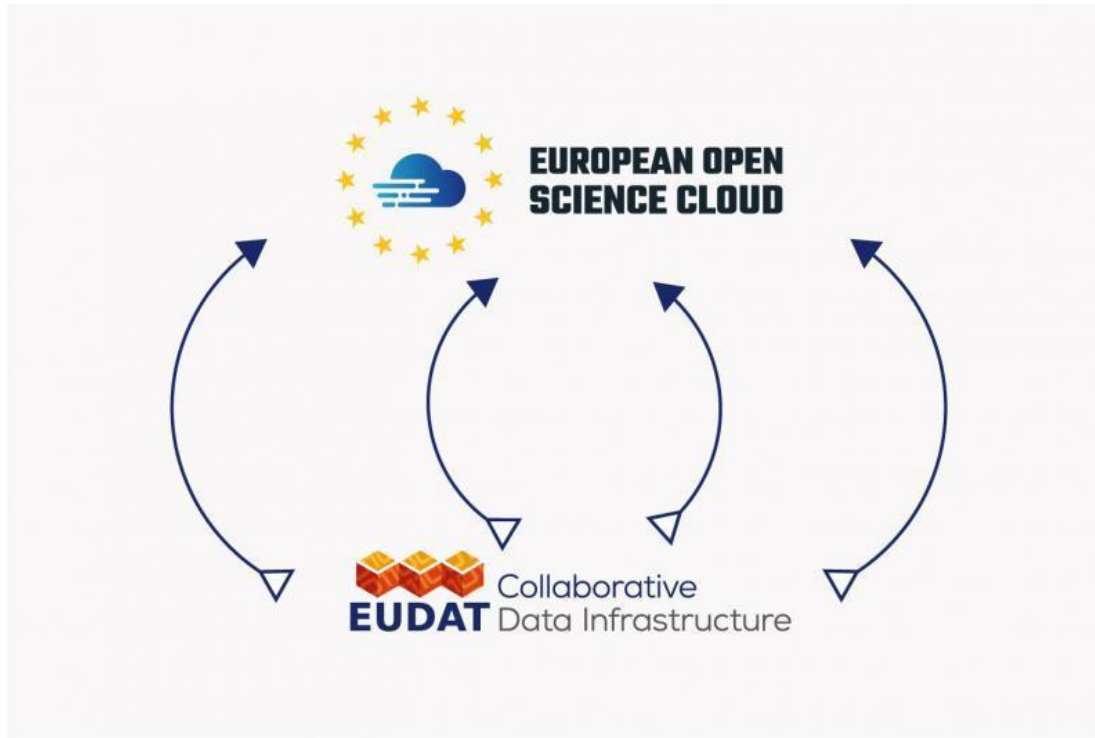
Different strategies for different usage scenarios

EUDAT offering for Research performing organisations (RPOs) and service provider organisations

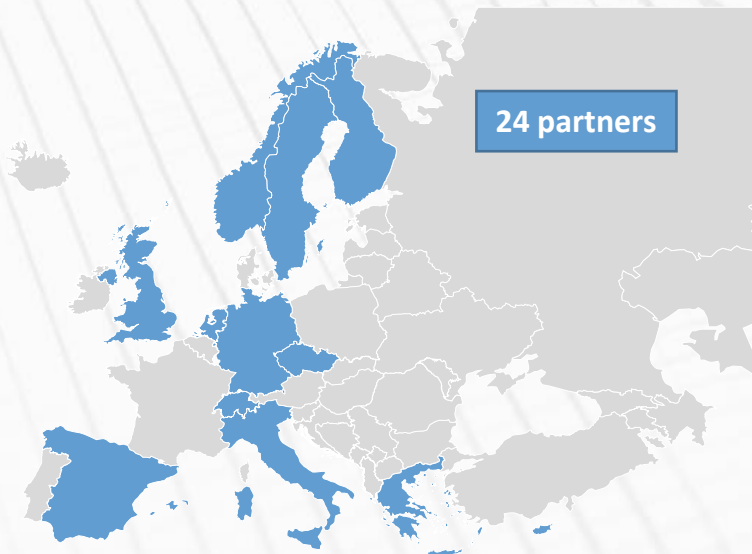
- EUDAT offers service contracts for RPOs to
 - Deliver B2 services according to defined service levels
 - Possibilities for tailoring the services, e.g. with metadata extensions, integrations, larger storage capacity, and other additional features
- For service providers
 - Leverage the EUDAT services and technologies in their service provision
 - Join the EUDAT CDI for being part of the European network benefiting from sharing knowledge, joining the development and contribute in the EUDAT vision


EUDAT and EOSC


- The EUDAT CDI supports the vision of the European Open Science Cloud offering open and seamless services for storage, management, analysis and re-use of research data, across borders and scientific disciplines.





Data infrastructure capacity for EOSC





 **Service providers**



 **Users' communities**



 **Outreach & sustainability**

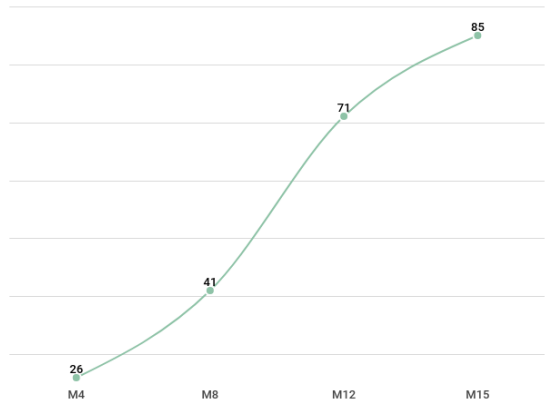


14 service providers are EUDAT members

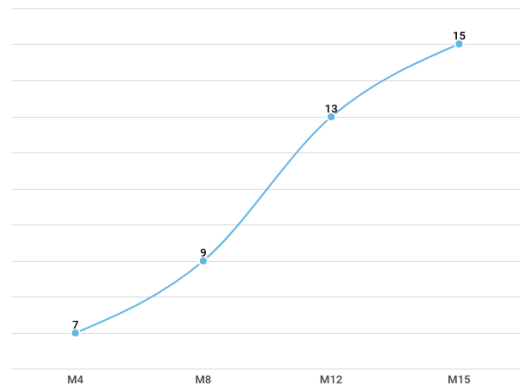
 Collaborative
EUDAT Data Infrastructure
Data shared and preserved across borders and disciplines



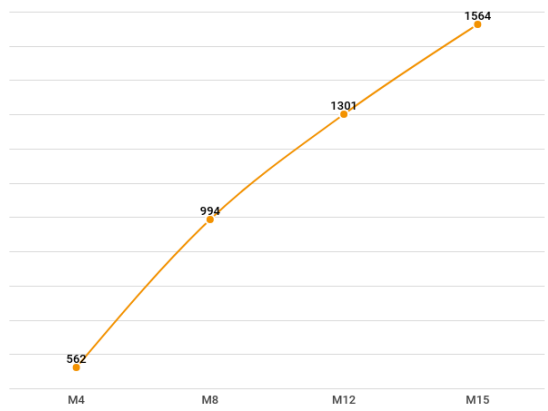
Number of projects



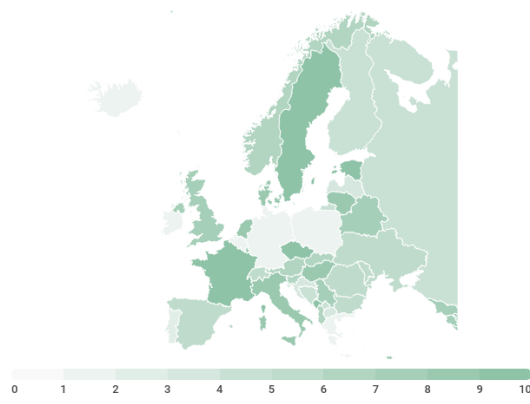
Number of domains



Number of users

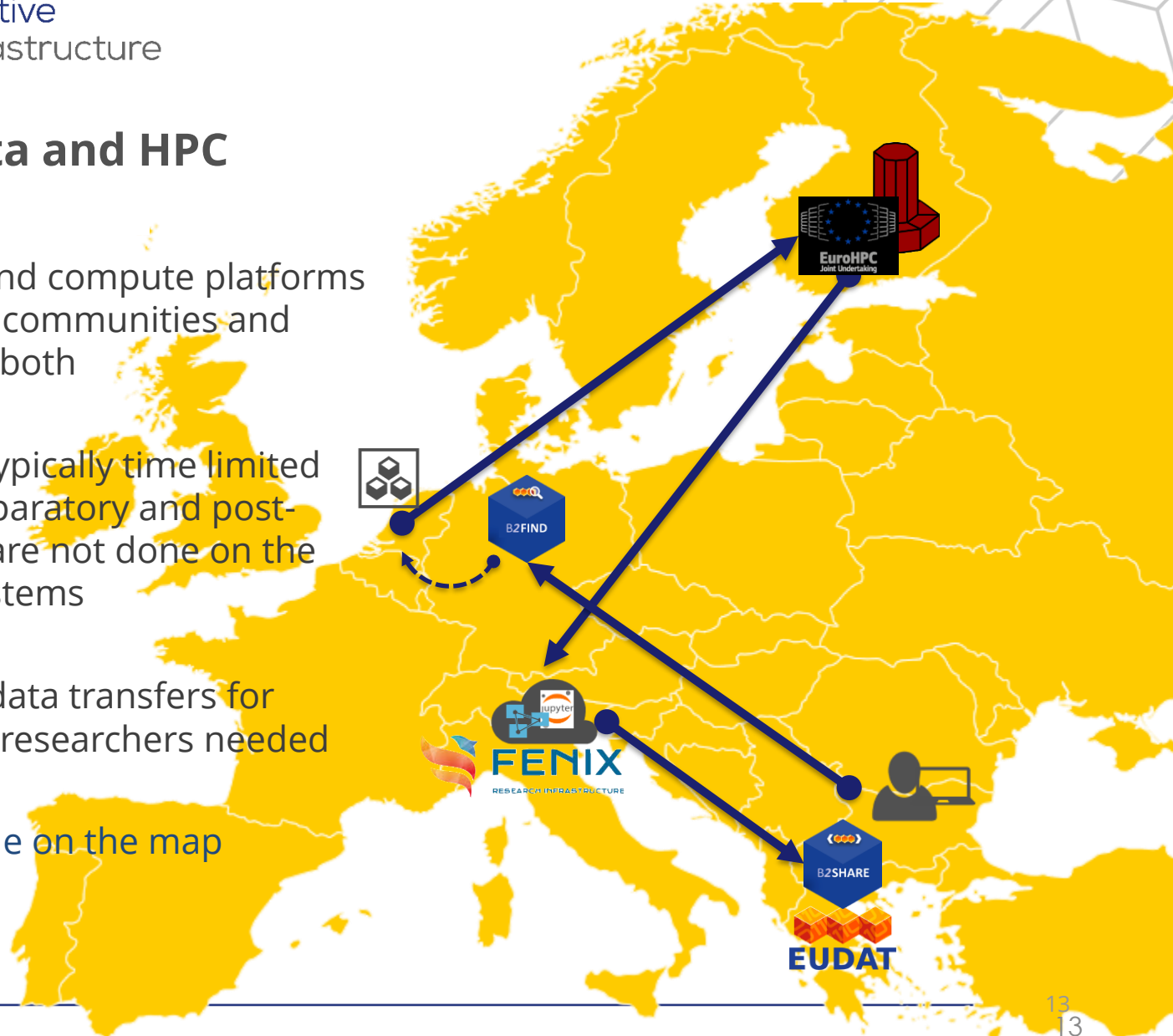


Number of countries



Integrating Data and HPC

- Integrating data and compute platforms is essential as the communities and researchers need both
- Access to HPC is typically time limited meaning that preparatory and post-processing steps are not done on the top notch HPC systems
- Support for easy data transfers for communities and researchers needed
- Schematic example on the map





Collaborative
Data Infrastructure

EUDAT in European landscape



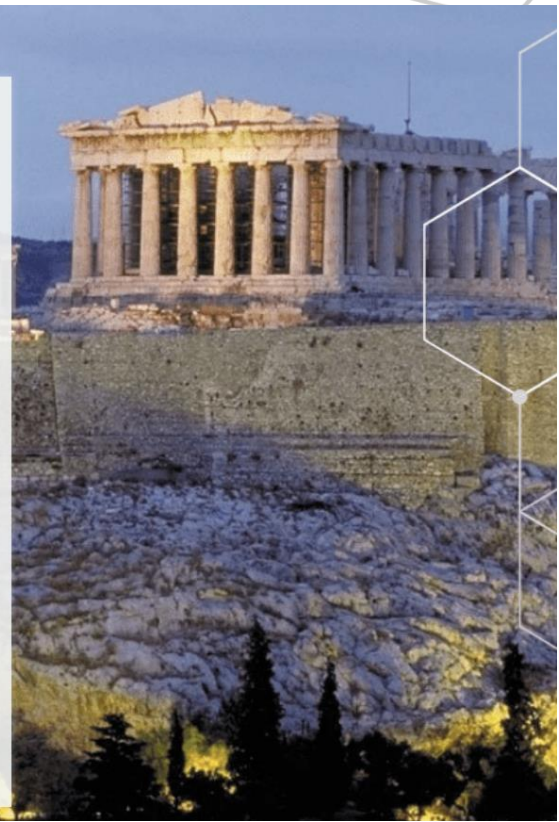
<https://youtu.be/7iclGfyQjsE>



EUDAT CONFERENCE
2022

13-16 Sept. 2022 | Athens, Greece

WELCOME





EUDAT Collaborative
Data Infrastructure

THANK YOU



eudat.eu



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