EUDAT
Collaborative Data Infrastructure
Towards the convergence of Compute, Data, Knowledge and Scientific Instruments
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www.eudat.eu
EUDAT is ...

- a pan-European initiative building a sustainable cross-disciplinary and cross-national data infrastructure providing a set of shared services for accessing and preserving research data.

- supporting multiple research communities by working closely with them to deliver technical services as part of the EUDAT Collaborative Data Infrastructure (CDI).

- consortium of high performance computing (HPC) / data centres, libraries, scientific communities, data scientists.
EUDAT’s contribution to Open Science

Delivering an integrated suite of common data services covering the full research data lifecycle & addressing both long tail and big data.
B2 SERVICE SUITE

B2DROP  
Sync and Exchange Research Data

B2SHARE 
Store and Share Research Data

B2SAFE  
Replicate Research Data Safely

B2STAGE  
Get Data to Computation

B2FIND  
Find Research Data

http://www.eudat.eu/services
Community-Driven
Open Science & EUDAT

- **OPEN** – all researchers, communities and infrastructures are encouraged to use / join the Collaborative Data Infrastructure

- **GLOBAL** – pan European infrastructure with global collaborations – US, Japan, …

- **COLLABORATIVE** – designed and driven by research communities and end users

- **CREATIVE** – enabling scientists from any research discipline to find, access and process data enabling them to carry out research effectively

- **CLOSER TO SOCIETY** - services and technology offers are available to all
Four interoperability pilots fostering the coupling of data and cloud resources. Large communities involved, BBMRI, ICOS, EISCAT-3D, ELIXIR.

Contribution to regular PRACE calls by providing medium/long-term storage capacity and services. 10 potential pilots emerging from the last DECI Call (13th).
Services description
B2DROP

EUDAT’s Personal Cloud Storage Service

B2DROP is a secure and trusted data exchange service for researchers and scientists to keep their research data synchronized and up-to-date and to exchange with others.
An ideal solution for researchers and scientists to:

- Store and exchange data with colleagues and team members, including research data not finalized for publishing
- Share data with fine-grained access controls
- Synchronize multiple versions of data across different devices

Features:

- 20GB storage per user
- Living objects, so no PIDs
- Versioning and offline use
- Desktop synchronisation
B2SHARE

B2SHARE is a **user-friendly, reliable and trustworthy** way for researchers, scientific communities and scientists to **store and share** small-scale research data from diverse contexts.

b2share.eudat.eu  
www.eudat.eu
A winning solution for **researchers, scientists and communities** to:

- **store data safely** at a trusted and certified data centre
- **preserve data** to guarantee long-term persistence
- **control access and share data** with colleagues and the world

**Features:**
- metadata management
- permanent PIDs
- Open Access support
B2SAFE

B2SAFE is a robust, safe and highly available service which allows community and departmental repositories to implement data management policies on research data across multiple administrative domains in a trustworthy manner.
The ideal solution for communities with no facility for archival to:

- **replicate research data** into secure data stores
- **archive and preserve** research data in the long-term
- bring data close to **powerful compute resources**
- **co-locate** data with different communities
- benefit from **economies of scale**

**Features:**
- large-scale storage
- robust and highly available
- permanent PIDs
B2STAGE

B2STAGE is a reliable, efficient, light-weight and easy-to-use service to transfer research data sets between EUDAT storage resources and high-performance computing (HPC) workspaces.

get data to computation

eudat.eu/b2stage
www.eudat.eu
Facilitating communities to:

- **move large amounts of data** between data stores and high-performance compute resources
- **re-ingest computational results** back into EUDAT
- **deposit large data sets** onto EUDAT resources for long-term preservation

**Features:**

- high-speed transfer
- reliable and light-weight
- manages permanent PIDs
B2FIND

B2FIND is a simple, user-friendly metadata catalogue of research data collections stored in EUDAT data centres and other repositories.
A metadata catalogue service to:

- **seek data objects and collections** using powerful metadata searches
- **catalogue community data** by means of selected metadata
- **browse through multi-disciplinary data collections** filtered by content, provenance and temporal keywords

**Features:**

- simple to use
- standards-based
- comprehensive catalogue