



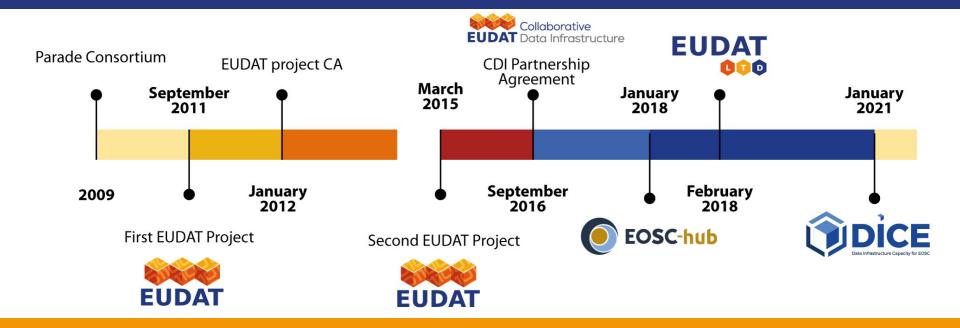
Debora Testi | User Engagement coordinator



Outline

- Introduction to EUDAT CDI data infrastructure
- EUDAT offering for Research Data management
- EUDAT services overview

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



EUDAT CDI in a nutshell



The EUDAT Collaborative Data Infrastructure (EUDAT CDI) is one the major e-infrastructures supporting research in Europe

EUDAT's vision:

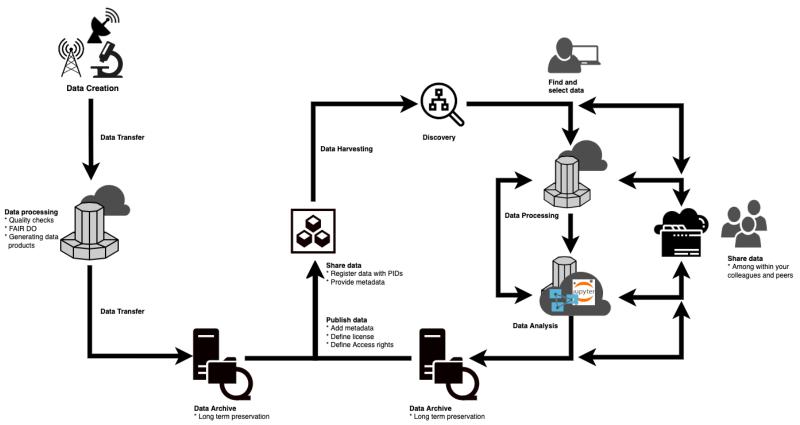
Data is shared and preserved across borders and disciplines

According to the vision, EUDAT provides a set of interoperable services that support European researchers in different steps of the research data life cycle.



Research Data Life Cycle



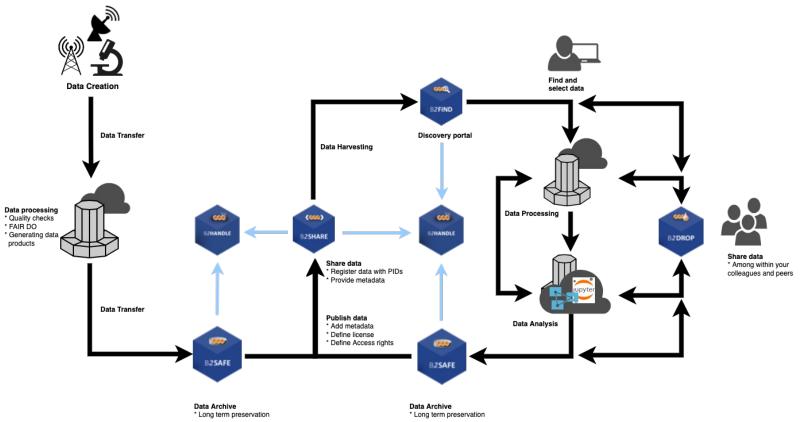


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Research Data Life Cycle

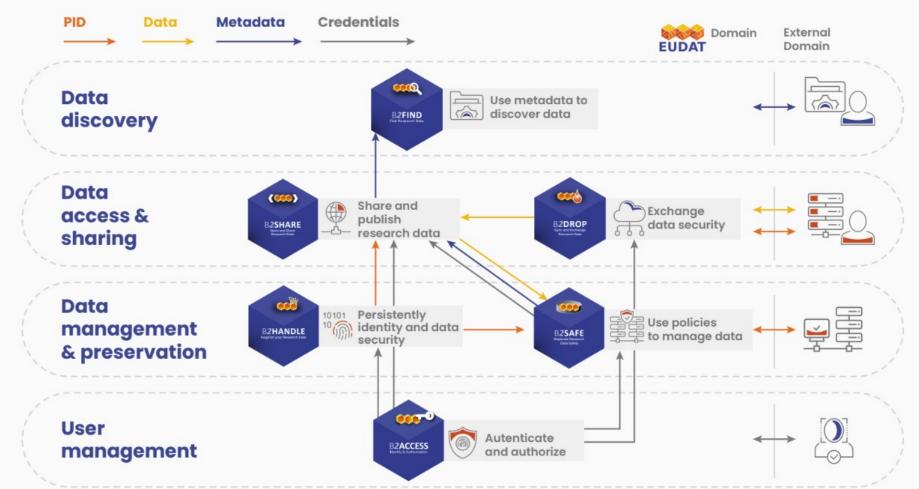






The EUDAT Service Suite







Data Discovery

Making FAIR research data findable

Data Repository

Long term data resources, accessible from computing facilities to store non-active FAIR data

Policies based Data Archive

Mid-long term data resources, accessible from computing facilities to store non-active research data, high level data management

Data Archive

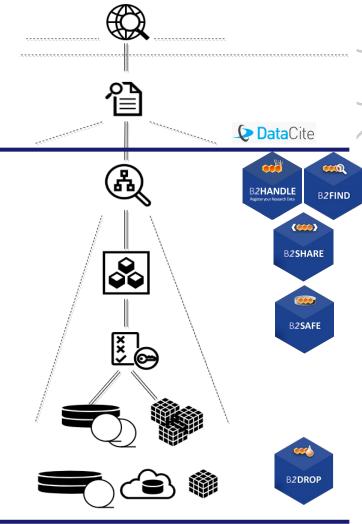
Mid term storage resources after/between projects, accessible from computing facilities to store non-active research data, bitwise preservation

Personal and/or Project workspace

Mid-term storage resources during project, Good connection to computing facilities, To storage active resource data

Data Analysis and/or Processing

Short term storage resources, tightly coupled to computing resources, used during data processing and analysis









Compute clusters

Supercomputers

Compute



EUDAT support to communities

- DICE EU funded project offer a significant amount of resources to users
 - Free at the point of use until June 2023
 - Ideal also for piloting the different services
- Data Infrastructure Capacity for EOSC

- Services can be used
 - By themselves
 - In combination with other DICE services and other providers







B2FINDFind Research Data

Search communities...



Anyone

What

- Find collections of scientific data quickly and easily, irrespective of their origin, discipline or community
- Get quick overviews of available data
- Browse through collections using standardized facets

Why

- Unique collection
- Ease of Searching

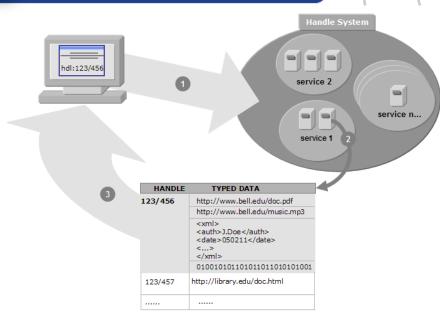


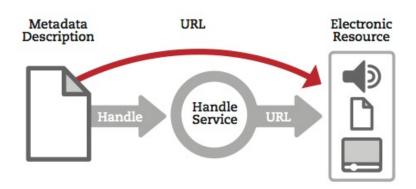




B2HANDLE Register your Research Data

- Who
 - Groups or Communities who want to make their data citable
- What
 - Follows policies to register data and make it long term refer- and citable
 - Reliability through mutual PID mirroring
 - Provides abstraction layer between a globally unique persistent identifier and physical location of data objects
- Why
 - Simple integration
 - Technology Agnostic









B2SHARE

Store and Share Research Data

Who

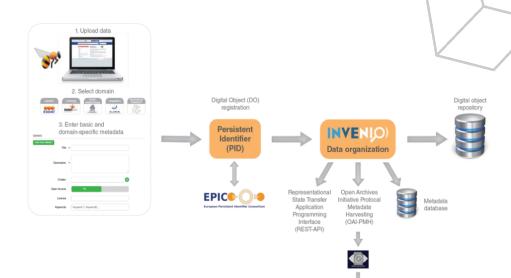
Anyone, Small to Medium Teams, Communities

What

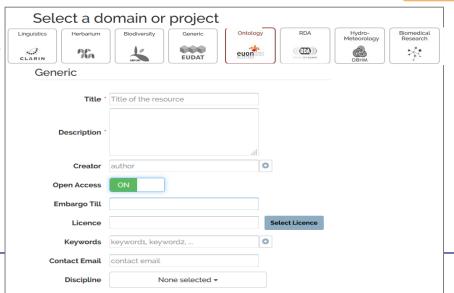
- Store data (incl. software) and add domain meta data
- Share registered research data worldwide
- Preserve (small-scale) research data for long-term

Why

- Register Data for Publications
- Make known to wider community



Metadata Service







B2SAFE Replicate Research Data Safely

Who

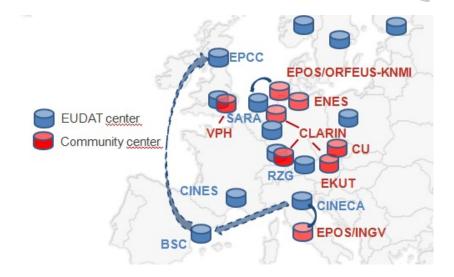
- Community Data Managers
- 'Sophisticated' Organisations

What

- Provide an abstraction layer which virtualizes large-scale data resources
- Guard against data loss in long-term archiving and preservation
- Optimize access for users from different regions
- Bring data closer to powerful computers

Why

- Performance
- Replication between trusted sites
- Data Preservation







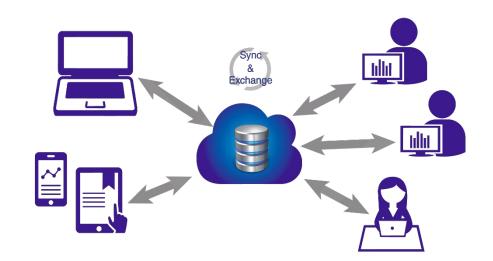








- Who
 - Citizens Scientists and small teams
- What
 - Store and exchange data
 - Synchronize multiple versions
 - Ensure automatic desktop synchronization
- Why
 - Ease of Use
 - Trusted European Service



- Different solutions are available at the different providers:
 - Free usage at the central instance, Premium usage, dedicated instances or customised solutions