

# Eudat services

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# Contents

Data Publication@U.Porto

RDM: challenges and opportunities

Dendro - Data description before publication

EUDAT

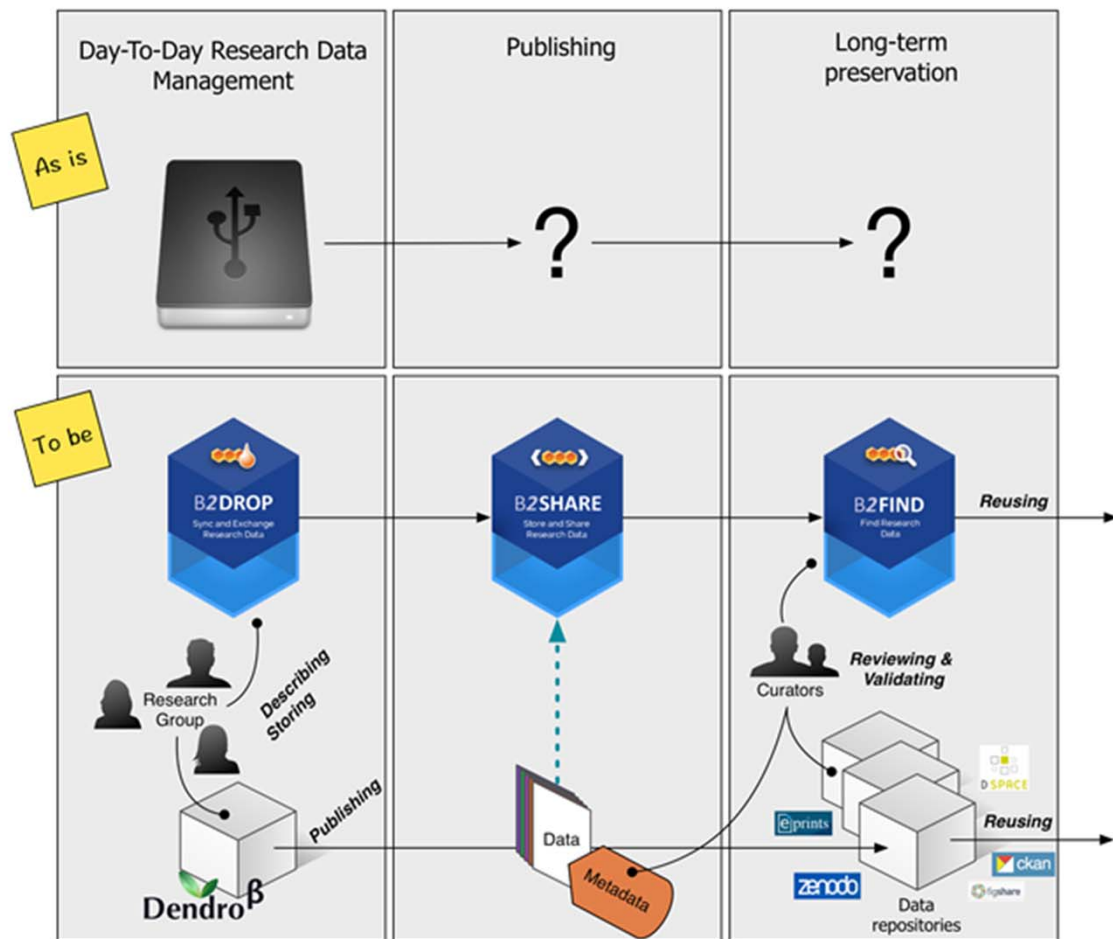
EUDAT services [B2DROP] [B2SHARE] [B2NOTE]

# DataPublication@UPorto

EUDAT use case

**Streamline research data workflow with focus on data description**

Researchers organize and describe data in Dendro [at U. Porto],  
deposit data in the EUDAT service, B2Share (when ready)



To know more about EUDAT and Dendro, please visit <https://eudat.eu/> and <http://dendro.fe.up.pt>

# Research Data Management

## **Challenges**

Data management required by funding agencies

Institutions compelled to implement RDM infrastructures

Issue (1) **Traditional publication workflow** [generic]

Issue (2) **Lack of manpower and infrastructure to support researchers** [for most]

# Research Data Management

## **Opportunities**

Institutions benefit from timely disclosure of data

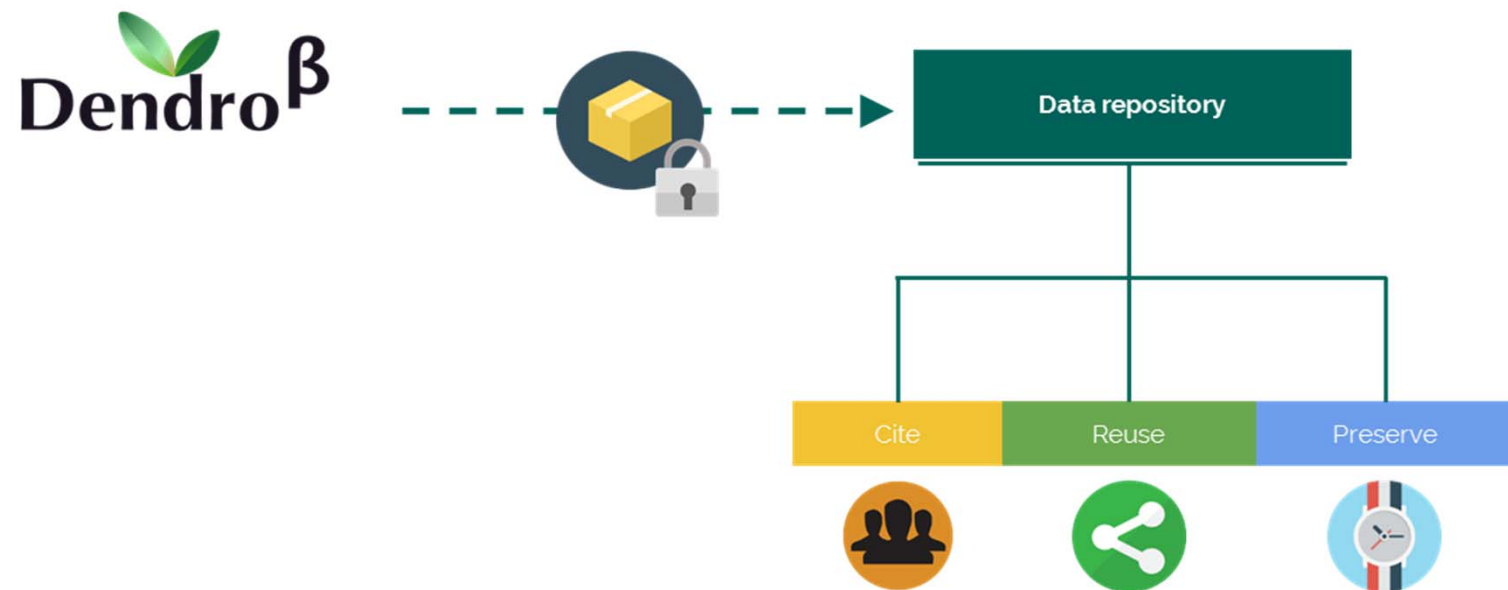
Credit to researchers

Promote reuse and collaboration between researchers

Foster science

# Dendro platform

Data organisation and **description early in the research workflow**



# Dendro platform

The screenshot displays the Dendro platform interface, which is used for managing digital objects and their metadata. The interface is divided into several sections:

- Top Bar:** Contains action buttons: **SAVE** (with a checkmark), **UNDO** (with a circular arrow), **COPY FROM PARENT** (with a downward arrow), **IN MANUAL MODE** (with a dropdown arrow), and **CLEAR** (with a trash icon).
- Project List:** Shows a list of projects. The first project is **current project** with a blue **Added** tag. Below it is a text input field containing **TweeProfiles Twitter data Results**.
- Abstract Editor:** A section for editing the abstract of the selected project. It features a rich text editor toolbar with buttons for **B** (bold), **I** (italic), **H** (heading), link, image, list, table, and other functions. The text area contains the sentence: **File names holds temporal information**.
- Access Rights:** A section for managing access rights, currently empty.
- Metadata Fields:** A vertical list of fields for adding or editing metadata. Each field has a plus sign and a dropdown arrow. The fields are: **AIM CHAT ID**, **DNA CHECKSUM**, **GIVEN NAME** (two instances), **ICQ CHAT ID**, **MSN CHAT ID**, and **SKYPE ID**.
- Dublin Core Terms:** A vertical list of Dublin Core terms, each with a dropdown arrow. The terms are: **Dublin Core terms**, **Friend of a friend**, **Dendro research**, **Double Cantilever Beam**, **Pollutant analysis**, **Biodiversity evolution studies**, **Biological Oceanography**, **Gravimetry**, and **Hydrogen Generation**.

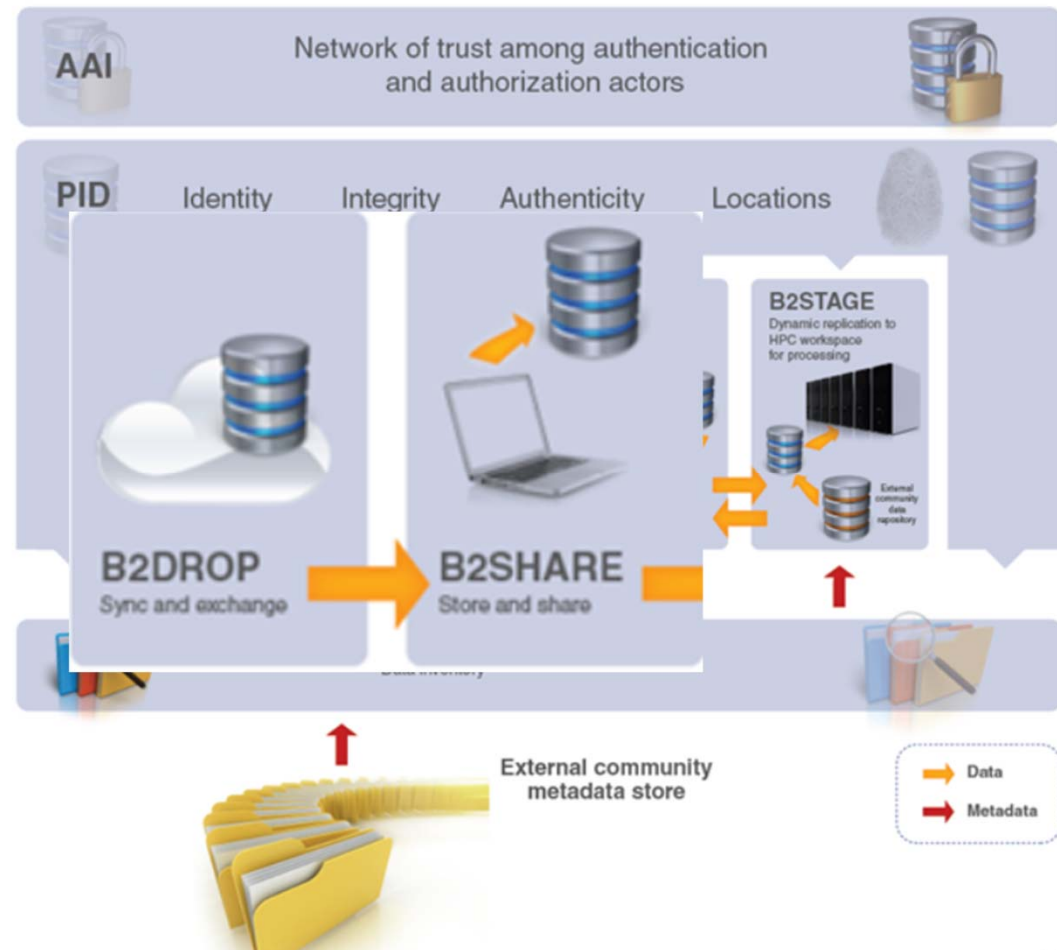




- Enabling data stewardship within and between European research communities through a **Collaborative Data Infrastructure**
- A service-oriented, community driven, **sustainable** and integrative initiative
- Aim is to **bridge the gap** between research (e-) infrastructures through an **active engagement strategy**



- Management and communication
- Metadata harvesting and indexing
- Long-term preservation



# B2DROP

A solution to store and exchange data with project partners  
Synch. data versions and automatic desktop synch. of large files



The screenshot shows a file sharing interface for a folder named "photos". The folder icon is a blue folder with a white link symbol. The folder name "photos" is displayed next to a link icon. Below the name, it shows "★ 4.2 MB, a year ago". There is a search bar for "Collaborative tags". Below that, there are tabs for "Activities", "Comments", and "Sharing". A "Share with users, groups or remote us" input field is present, followed by an information icon "i". A checked checkbox "Share link" is shown, with a text box containing the URL "https://b2drop.eudat.eu/s/AHsKCTIVYOdSgs". Below this, there are three unchecked checkboxes: "Allow editing", "Password protect", and "Set expiration date". At the bottom, there is an "Email link to person" input field and a "Send link via email" button.

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## **B2SHARE**

A way to store and share small-scale research data

# 1-D beams crossing a relaxed simulated gal.cluster

by [Franco Vazza](#);

Oct 13, 2017

**Description:** 150 lines of sight through the volume of a simulated relaxed galaxy cluster at  $z=0$ , produced by F.Vazza et al. running ENZO-MHD on the Jureca supercluster in Juelich. Each line is simple tabulated dataset containing 1st col-distance along axis (in comoving kpc) 2-gas density  $g/cm^3$  3-temperature[K] 4,5,6 =  $B_x, B_y, B_z$  in microGauss 7,8 = position along x and y in cell units. The beams are sweeping the cluster along the Z-direction. Each cell is 3.95 kpc and the centre of the cluster in this case is at 640,640. The "random" dataset contain 100 beams at random x,y location in the projected cluster area, the "central" dataset contains 50 beams closely extracted around the cluster core. The cluster has a final mass of  $\sim 1e15 M_{sol}$  and the magnetic field model assumes an initial seed field of 0.1nG (comoving). More info in Vazza et al. 2017 MNRAS (forthcoming publication)

**Disciplines:** 3.4.3 → Physics → Astrophysics;

**Keywords:** MHD; simulated cluster;

**DOI:** [10.23728/b2share.7fafef0af6184182820b124a29948cb4](https://doi.org/10.23728/b2share.7fafef0af6184182820b124a29948cb4)

**PID:** [11304/8431e960-2289-4ec4-9f3e-b88476ce58db](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-11304-8431e960-2289-4ec4-9f3e-b88476ce58db)

## Files

Name	Size
▼ <a href="#">100LOS_cluster_random.zip</a>	1.33MB
Checksum: md5:df02cf862a717e49fc159f93b299cd78	
PID: <a href="https://nbn-resolving.org/urn:nbn:de:hbz:5:1-11304-066f8f2e-be09-4620-ae99-632792747e0d">11304/066f8f2e-be09-4620-ae99-632792747e0d</a> <input type="button" value="Copy"/>	
<input type="text" value="   "/>	
▼ <a href="#">50LOS_cluster_central.zip</a>	1.26MB
Checksum: md5:b7d4bcc294e181296b5ab0b8e949f6b4	
PID: <a href="https://nbn-resolving.org/urn:nbn:de:hbz:5:1-11304-ad7b39e9-2f2a-4b9c-91b9-9209aac02859">11304/ad7b39e9-2f2a-4b9c-91b9-9209aac02859</a> <input type="button" value="Copy"/>	
<input type="text" value="   "/>	

## Basic metadata

<b>Open Access</b>	True ✓
<b>License</b>	Creative Commons Attribution-NonCommercial-ShareAlike (CC-BY-NC-SA)
<b>URL</b>	<a href="http://creativecommons.org/licenses/by-nc-sa/4.0/">http://creativecommons.org/licenses/by-nc-sa/4.0/</a>
<b>Contact Email</b>	franco.vazza2@unibo.it

# B2NOTE

Data annotation after deposit  
comments, keywords, free-keywords

DOI: [XXXX/b2share.gb39d7abe1db47d2be3c9286c18b31ef](https://doi.org/XXXX/b2share.gb39d7abe1db47d2be3c9286c18b31ef)   
PID: [0000/gb39d7abe1db47d2be3c9286c18b31ef](https://doi.org/0000/gb39d7abe1db47d2be3c9286c18b31ef)

### Files

Name	Size
<b>smeardata_85484355.csv</b> Checksum: md5:a108510c6e665ca3d9ccd56a13c20c79 PID: <a href="https://doi.org/0000/smeardata_85484355.csv">0000/smeardata_85484355.csv</a> <input type="button" value="Annotate in B2Note"/>	20.12MB

# Final Remarks

- Data description and organization should start early
- Detailed metadata improve data reuse
- Collaboration tools ease communication between researchers
- B2SHARE allocates Persistent Identifiers and targets long-term preservation