



B2SHARE

How to share and store research data using EUDAT's B2SHARE

Version 7

June 2014



B2SHARE is...

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

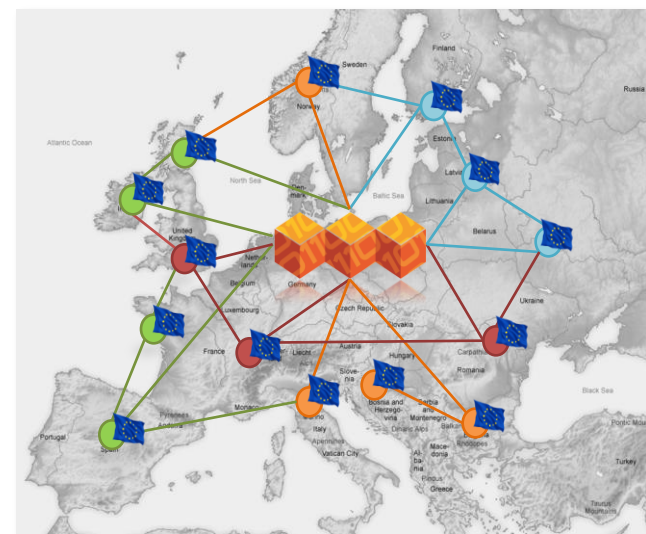
B2SHARE is part of EUDAT...



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 these technical services as part of the EUDAT Collaborative Data Infrastructure (CDI)





A truly pan-European Infrastructure

Research Communities

National Data centres

Technology providers

Offering permanence,
persistence, reliability
and long term
solutions

■ general data centres



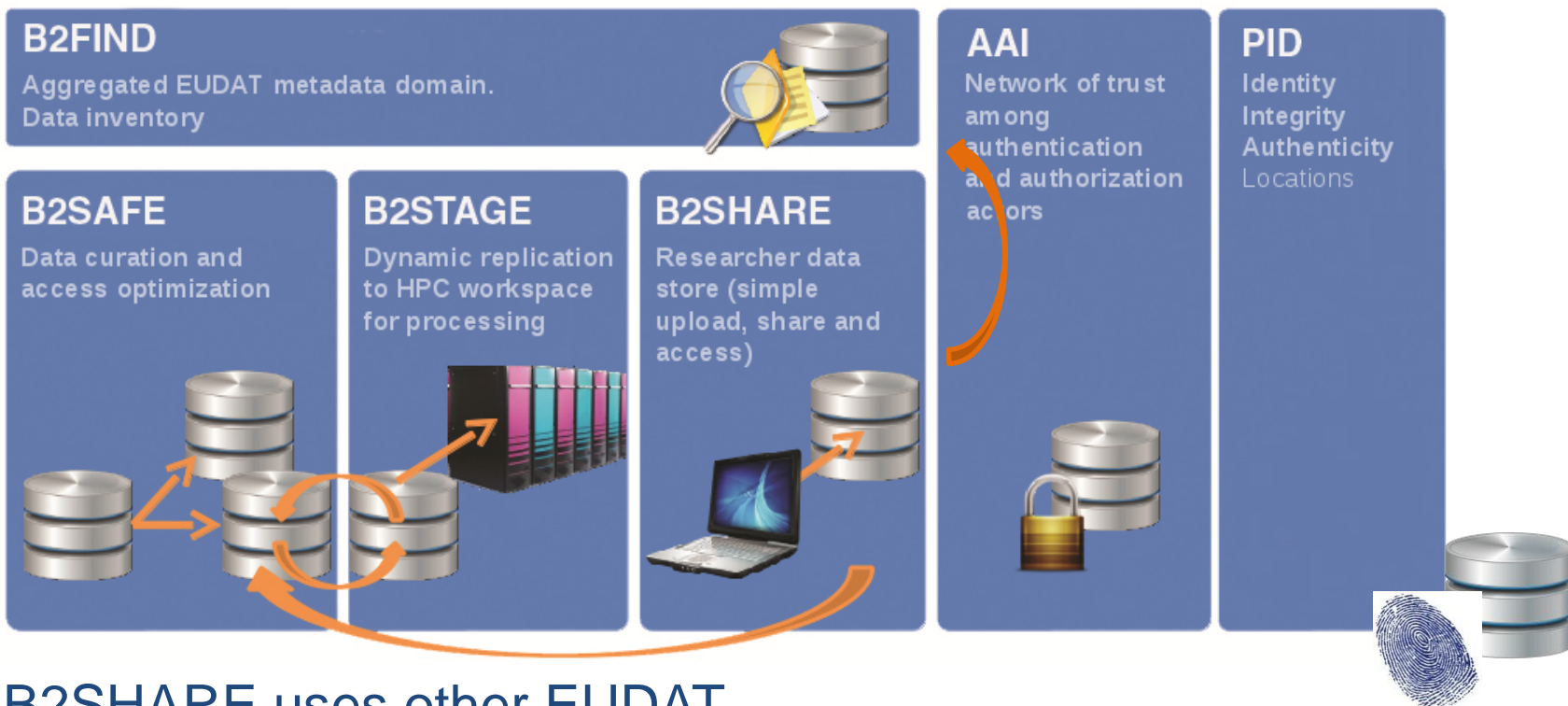
■ community centres

representing all the associated
community data centres





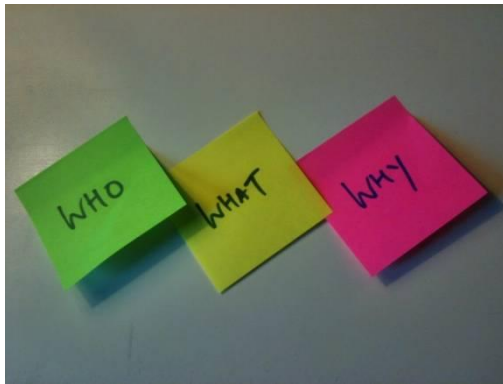
Where is B2SHARE in the EUDAT suite?



B2SHARE uses other EUDAT services such as B2SAFE and B2STAGE to provide reliability and data retention.



The Who, What, Why of B2Share



Who uses B2Share?

Researchers, students and even citizen scientists are creating small “long tail” data which is not stored safely or easily sharable.

What is B2Share?

B2Share is a user-friendly data repository

A place where small data sets can be safely stored and easily shared with others.

Why use it?

To have that peace of mind that your data is stored safe and sound while reaping the rewards of sharing data with others.



Who is B2SHARE for?

Basically anyone!

- ✓ *From individual researchers, PhD and Postdoc students, to project coordinators and collaborators, and even schools and citizen scientists.*
- ✓ *Use the service as an individual user or as part of a specific research community.*

B2SHARE bridges the gap between citizen scientists and researchers to enable and stimulate research data collaboration and sharing

A winning solution to ...

- ✓ **Store:** facilitates research data storing
- ✓ **Preserve:** guarantees long-term persistence of data
- ✓ **Share:** allows sharing of data, results or ideas worldwide



B2SHARE added-value

Your data is ...

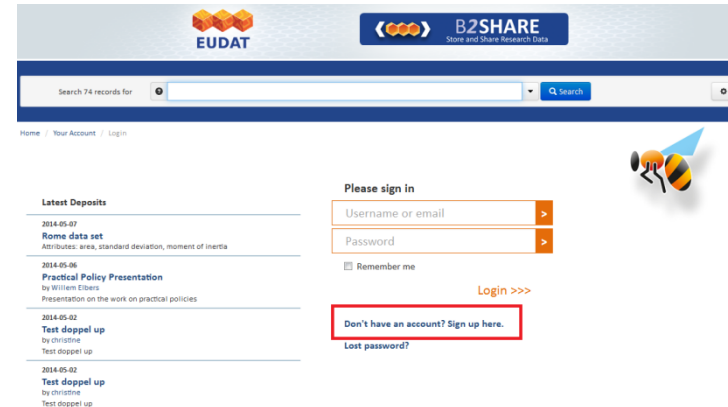
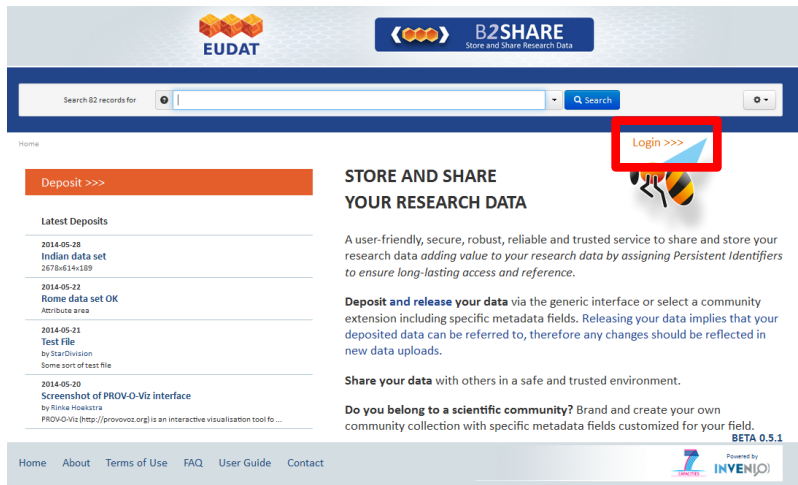
- *Hosted so there are no hardware or network worries on depositor side*
- *Assigned a permanent ID which means it is always retraceable to you*
- *Stored alongside queriable & findable metadata and automatically available via the B2FIND metadata catalogue*
- *Managed and stored by a trusted and certified data centre*



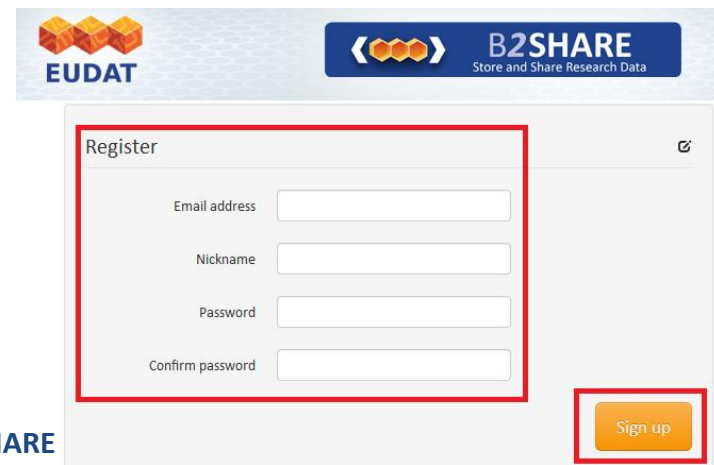


First you have to register

1. Visit our homepage
<http://b2share.eudat.eu>.
2. Click on “Login”
3. Click on “Don't have an account? Sign up here.”



4. Fill in the details and click on sign up to create your account then.....





.....and then.....

5. ...Check your email and follow the instructions by clicking on the activation link

You must do this within 3 days of receiving the message

Hello,

We have received an account activation request via b2share.eudat.eu for the email address ["t.biro@trus"](mailto:t.biro@trus)

If you would like to complete this account registration, please go to:

<https://b2share.eudat.eu/youraccount/access?ln=en&mailcookie=4001b1548fcb323d24c70ebc961e1ae9dca0>

to confirm the validity of this request.

Please note that this URL will remain valid for about 3 days only.

Email address successfully activated

You have confirmed the validity of your email address!

You can now go to your account page.

[Home](#) [About](#) [Terms of Use](#) [FAQ](#) [User Guide](#)
[Contact](#)

Last updated: N/A

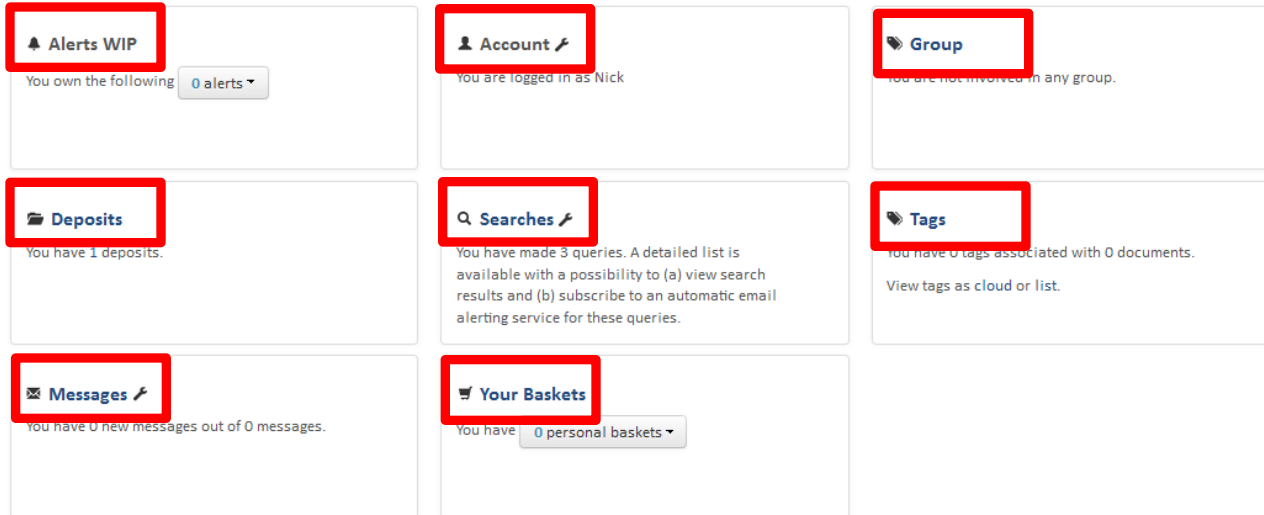
6. Click on the link to your account page



...and then you see your user page

Your Account

Filter widgets



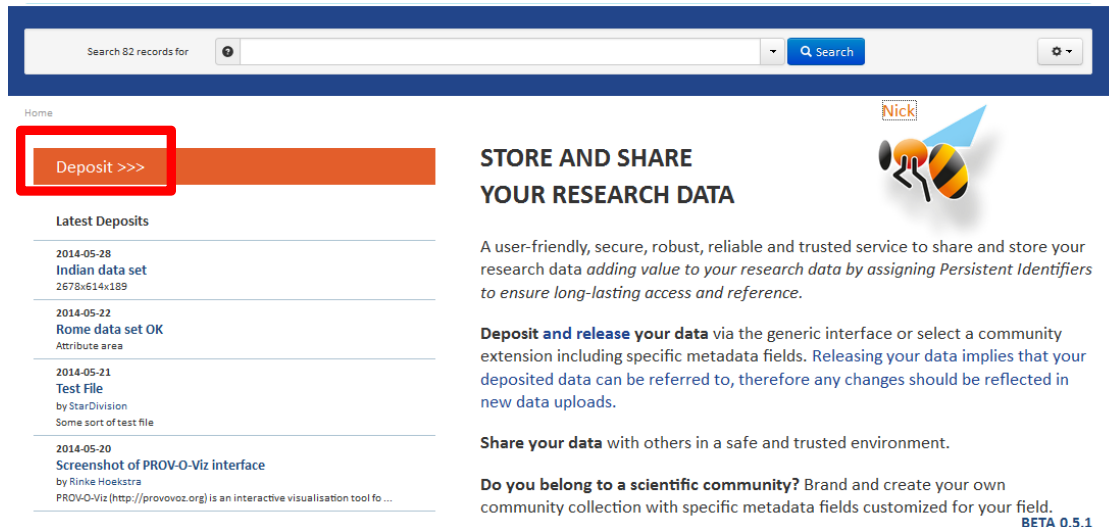
The screenshot shows the 'Your Account' page with several widgets. Each widget title is highlighted with a red box:

- Alerts WIP**: You own the following 0 alerts.
- Account**: You are logged in as Nick.
- Group**: You are not involved in any group.
- Deposits**: You have 1 deposits.
- Searches**: You have made 3 queries. A detailed list is available with a possibility to (a) view search results and (b) subscribe to an automatic email alerting service for these queries.
- Tags**: You have 0 tags associated with 0 documents. View tags as cloud or list.
- Messages**: You have 0 new messages out of 0 messages.
- Your Baskets**: You have 0 personal baskets.

Including all your tools and services:

- Alerts
- Account
- Groups
- Data deposits
- Searches
- Tags
- Messages
- Basket

How do I deposit data? – Step 1



The screenshot shows the B2SHARE homepage. At the top, there is a search bar with the text "Search 82 records for" and a "Search" button. Below the search bar, there is a navigation bar with a "Deposit >>>" button highlighted by a red box. To the right of the navigation bar, there is a section titled "STORE AND SHARE YOUR RESEARCH DATA" with a description: "A user-friendly, secure, robust, reliable and trusted service to share and store your research data adding value to your research data by assigning Persistent Identifiers to ensure long-lasting access and reference." Below this, there is a section titled "Deposit and release your data" with a description: "via the generic interface or select a community extension including specific metadata fields. Releasing your data implies that your deposited data can be referred to, therefore any changes should be reflected in new data uploads." To the right of the description, there is a small icon of a person with a lightbulb. Below the description, there is a section titled "Share your data" with a description: "with others in a safe and trusted environment." At the bottom, there is a section titled "Do you belong to a scientific community?" with a description: "Brand and create your own community collection with specific metadata fields customized for your field." The version number "BETA 0.5.1" is displayed at the bottom right.

Home

Search 82 records for

Deposit >>>

Latest Deposits

- 2014-05-28
Indian data set
2678x614x189
- 2014-05-22
Rome data set OK
Attribute area
- 2014-05-21
Test File
by StarDivision
Some sort of test file
- 2014-05-20
Screenshot of PROV-O-Viz interface
by Rinke Hoekstra
PROV-O-Viz (<http://provoviz.org>) is an interactive visualisation tool fo ...

STORE AND SHARE YOUR RESEARCH DATA

A user-friendly, secure, robust, reliable and trusted service to share and store your research data *adding value to your research data by assigning Persistent Identifiers to ensure long-lasting access and reference.*

Deposit and release your data via the generic interface or select a community extension including specific metadata fields. Releasing your data implies that your deposited data can be referred to, therefore any changes should be reflected in new data uploads.

Share your data with others in a safe and trusted environment.

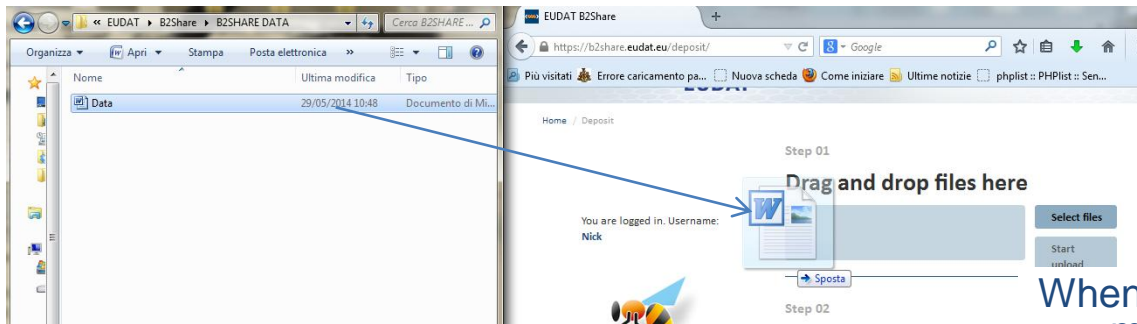
Do you belong to a scientific community? Brand and create your own community collection with specific metadata fields customized for your field.
BETA 0.5.1

Go to the
homepage
and click on
“Deposit”

How do I deposit data? – step 2

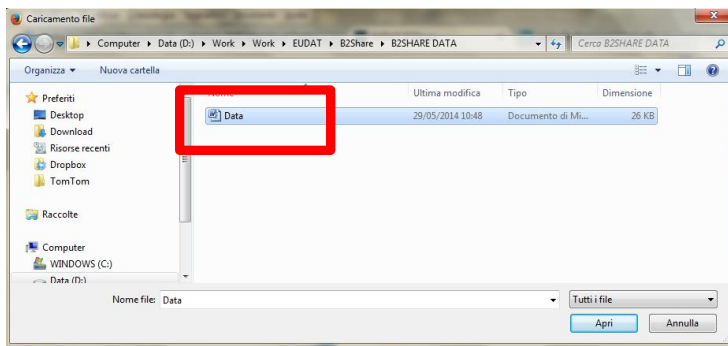
Select and upload one or several data resources

Drag and drop to "Drag and drop files here"



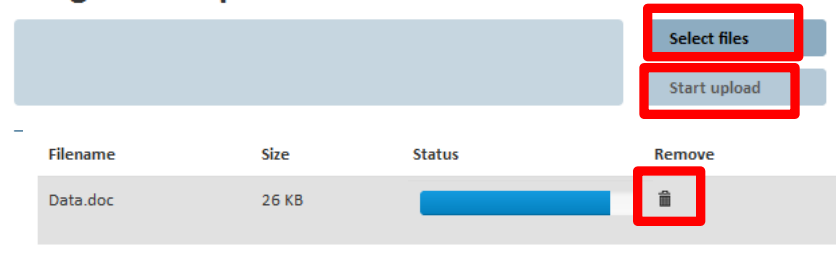
When ready, click the button marked "Start upload"

OR.....Hit "Select files" and select from your pop-up file



Step 01

Drag and drop files here



Check the upload status
You can cancel uploads by clicking on the dustbin icon



How do I deposit data?– step 3

Step 02

Select a domain or project



Select an appropriate domain or project by clicking on one of the domain or project boxes.

Your data will be stored there.

How do I deposit data? – step 4

Step 03

Add basic details

Generic

Add more details?

Title

* Title of the resource

Description

*

Creator

author

Open Access

ON

Licence

Keywords

keyword1, keyword2, ...

Contact Email

contact email

generic

* indicates required field

Add basic metadata fields.

The more information you add the easier your data will be to find for others

Open Access:

Select “ON” to make your data accessible to registered members only

Select “OFF” and everyone can see your data

All metadata is visible to all

How do I deposit data? – step 6

Generic

[Add more details?](#)

Title *

Description *

Creator [+](#)

Open Access ☒ ON

Licence

Keywords

After completing the general information, you should also complete the community specific fields

Each community has different fields to complete

euon

Ontology Domain

Ontology Language

Ontology Engineering Tool

Creation Date

Modification Date

drihm

Reference date

Reference System

Topic Category

Responsible Party

Geographic Location

Spatial Resolution

Vertical Extent

Lineage

Linguistics

Language Code

Country/Region

Resource Type

Project Name

Quality

BBMRI

Study ID

Study name

Study Description

Principal Investigator

Study design

Disease

Categories of data collected

Planned sampled individuals

Planned total individuals

Sex

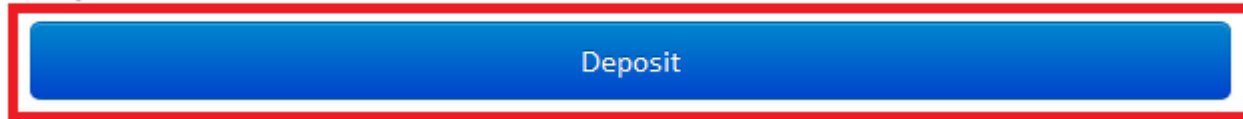
Age interval

Material type

* indicates required field

How do I deposit data? – step 7

Step 04



Hit the deposit button to share your data and then....

...see the records page for your data

test
test

04 May 2014
<http://b2share.eudat.eu>

Abstract: test

Add tags

Name	Date	Size	
tyne bridge.png	09 May 2014	418.2 kB	Download

[Comments & Reviews](#) [Report abuse](#)

Export

[BibTeX](#), [MARC](#), [MARCXML](#), [DC](#), [EndNote](#), [NLM](#), [RefWorks](#)

Metadata

PID:	http://hdl.handle.net/11304/4c7813d8-d783-11e3-8cd7-14feb57d12b9
Publication:	http://b2share.eudat.eu
Publication Date:	2014-05-04
Uploaded by:	n.ferguson@trust-itservices.com
Domain:	generic
Checksum:	6aba1473574596f9003f037f713c07754b18f9cfa16da15afe4b2cc0d062fe22



What data can you upload?

Research data

Primary data

Processed data

Data as basis for a publication

Empirical data

Theoretical data



In virtually any kind of format....

Papers

Spreadsheets

Audio-visual media,

Data source or purpose of the data
has a scientific background.

Just a note....

Make sure that you are allowed to upload your data. Data protection laws exist to protect sensitive data and restrictions exist on this data is stored. Always check if your data has any such restrictions on where it can be stored.

Unrelated personal data should not be stored on B2SHARE



Are there any limits on how much I can upload?

The number of files you can upload is unlimited
Maximum file size is 2GB per file
If you want to upload larger files then contact
eudat-simplestore@postit.csc.fi



Can I restrict access to my data?

You can choose if you want your data to be open to anybody or be restricted.

All metadata stored in B2SHARE, except private information such as email addresses and phone numbers, are made publicly available.

As the service is dedicated to research data, the names and affiliations of the data owner and/or the data depositor are publicly available.





Identifying data

The B2SHARE service provider will respect the user's access restrictions, assign PIDs to each object (and by this way, register them to the EUDAT domain of registered data) and store the data according to the B2SHARE service statements.

For the most common data types – such as text, audio and video files – custom players will be available so that authorized users will be able to directly view the contents of the data files.



What happens to my data once I have deposited it?

EUDAT has no claim over the data deposited in B2SHARE and depositors remain entirely responsible for the data they deposit.

Data is stored on state of the art servers at the Finnish IT Center for Science, Kajaani, Finland

EUDAT retains the right of archiving, i.e. creating replicas at trusted centers to take care of long-term persistence.

In the next few months we plan to make it possible to users to choose their preferred storage provider from a selection of EUDAT centres in various European locations.



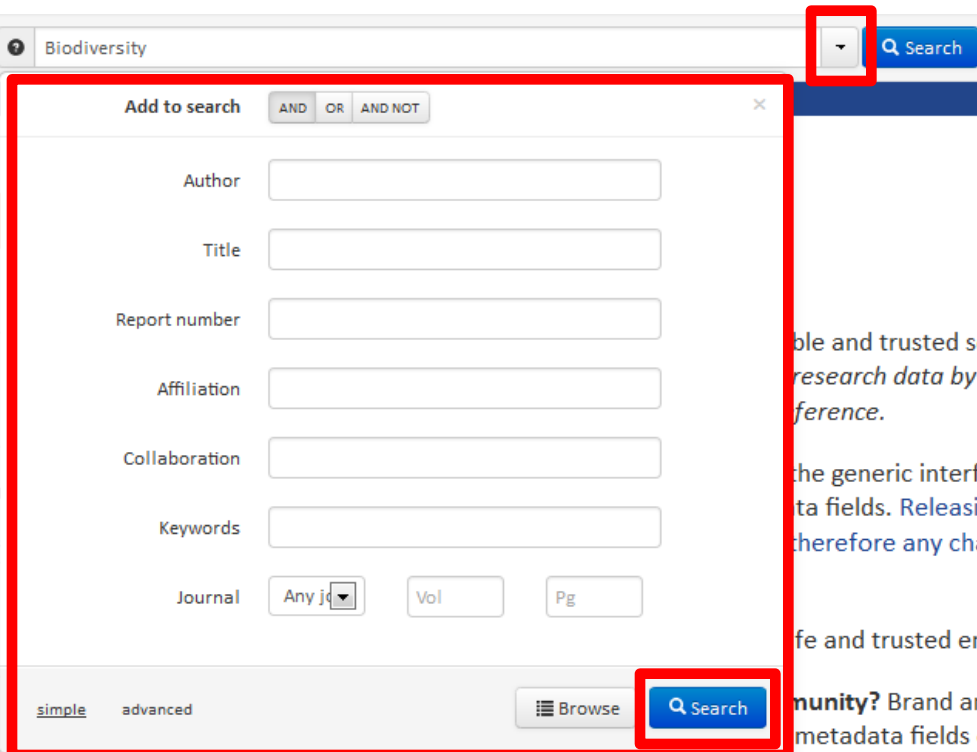
How do I search for data?



Basic search interface showing the search bar and the search button. The search bar contains the text "Biodiversity".

Basic search

- Type in part of a title, keyword, abstract or other metadata and click on "search"



Advanced search interface showing the search bar and the search button. The search bar contains the text "Biodiversity". The search button is highlighted with a red box. Below the search bar, there is a dropdown menu with a red box around it. The dropdown menu is open, showing the "Add to search" section with various search fields: Author, Title, Report number, Affiliation, Collaboration, Keywords, and Journal. The Journal field has a dropdown menu with "Any journal" selected. At the bottom of the dropdown menu, there are buttons for "simple", "advanced", "Browse", and "Search".

Advanced search

- Click on the arrow next to "Search"
- The Advanced search options drop down.
- Specify search fields, use boolean methods in various indices and use regular expressions and other search operators (spans, refers to, cited by).
- Click on search at the bottom of the drop down area.



How can I download data?

Showing records 1 to 5 out of 5 results.

Display ▾ Sort by ▾

Download

1 **SMEAR Hyytiälä measurements as JSON; 1**

<http://www.atm.helsinki.fi/SMEAR/> Station for Measuring Ecosystem-Atmosphere Relations. [https://wiki.helsinki.fi/display/SMEAR/Measurements Continuous](https://wiki.helsinki.fi/display/SMEAR/Measurements+Continuous) measurements: Aerosols Meteorology and gases Forest-atmosphere fluxes Soil and catchment areas Trees Lake Smart-SMEAR: on-line data exploration and visualization tool for SMEAR stations. BOREAL ENVIRONMENT RESEARCH (BER) Vol 14, Issue 4, pp.447-457 <http://avaa.tdata.fi/web/smart/smeaar>

by atm-data@helsinki.fi Junninen, H ; Lauri, A ; Keronen, P ; Aalto, P ; Hiltunen, V ; Hari, P ; Kulmala, M. ; Junninen, H ; Lauri, A ; Keronen, P ; *et al* | 30 Jan 2014, 15:07 | Similar records |

Once you have found the data you want, you can download easily by clicking on the download button



Data records page

Name, date
& abstract

Rome data set

04 May 2014

<http://b2share.eudat.eu>

Abstract: Attributes: area, standard deviation, moment of inertia

The record appears in these collections:

Generic

Download

Add tags

Files			
Name	Date	Size	
multi_std_training.el	07 May 2014	13.4 MB	Download
multi_all_test.el	07 May 2014	279.9 MB	Download
multi_inertia_test.el	07 May 2014	119.4 MB	Download
multi_pan_training.el	07 May 2014	4.5 MB	Download
multi_std_test.el	07 May 2014	120.2 MB	Download

Formats

Export

[BibTeX](#), [MARC](#), [MARCXML](#), [DC](#), [EndNote](#), [NLM](#), [RefWorks](#)

Metadata

Metadata

PID: <http://hdl.handle.net/11304/8ce5c6f0-d5d4-11e3-8cd7-14feb57d12b9>

Publication: <http://b2share.eudat.eu>

Publication Date: 2014-05-04

Uploaded by: cavallaro.gabriele@gmail.com

Domain: generic

Checksum: 23e5019779cda8c69aaf9ed5bf9e4b588cf3947070df5e570cd9c0cb95124cb8

Each data or data set has its own records page



And how much does all this cost?

The B2SHARE service is free of charge for European scientists and researchers.
No comparable service currently exists to support EU research.



Services

- Self-service registration
- Free upload and registration of stable research data,
- Data access policy defined by data owner,
- Metadata openly accessible and harvestable,
- Customized metadata handling and customized user interfaces (e.g. for metadata acquisition),
- Data integrity ensured by checksums which are calculated during data ingest,
- Data is kept online

Services

- Storage usage based on fair share principle,
- Professionally managed service: data is stored at Datacenter CSC Kajaani, certified by the ISO/IEC 27001:2005 standard for its information security management system,
- User support provided via EUDAT ticketing system,
- Service availability and usage of storage is monitored,
- Data and metadata remains accessible for two years if services [is closed](#)



What's next for B2SHARE users?

We're always looking to improve B2SHARE and the following additions will be made:

- Provision of basic B2SHARE service by multiple service providers,
- Communities will be able to request a premium service providing larger storage capacity
- Service provisioning based on SLAs,
- Users will be able to choose their own trusted service provider,
- B2SAFE repositories will be connected to the safe replication service,
- Sharing data with user groups,
- Introduction of social tagging.





Thanks

For more info: <https://b2share.eudat.eu/>