B2SHARE
An Open eScience Data Sharing Platform

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B2SHARE - An Open eScience Data Sharing Platform

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Agenda

- The context: EUDAT
- B2SHARE - An Open eScience Data Sharing Platform
- The Future
“EUDAT’s vision is to enable European researchers and practitioners from any research discipline to preserve, find, access, and process data in a trusted environment, as part of a Collaborative Data Infrastructure (CDI) conceived as a network of cooperating centres, combining the richness of numerous community-specific data repositories with the permanence and persistence of some of Europe’s largest scientific data centres.”
Pan-European Data Infrastructure
Key Principles

- Service-oriented
- Community driven
- Sustainable
- Integrated
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
Why B2SHARE?

Store
Share
Publish
Store in B2SHARE

- Long tail data
- Spreadsheets, images, documents, raw data
- File size currently up to 2GB
- Data that do not fit in with existing data management policies
Share

- Share with colleagues all over the world
- Share research data
- Collaborate
Publish

- Publish research results
- Articles and papers
- Documents
- Raw data
How?

1. Upload data

2. Select domain

3. Enter basic and domain-specific metadata

- Title
- Description
- Creator
- Open Access
- Licence
- Keywords
B2SHARE Architecture

Data Storage
- Object Storage
- Metadata Storage
- Identity Management
- Federation Support
- Revision Support
- Data Management

User Interface
- Browse
- Search
- Data Organization
- Unified View
- Customized Community Interface

API
- REST API
- Standardized Interface
- OAI PMH for Harvesting

Access Control
- User Access Control
- Object Access Control
- Metadata Access Control
- Federation Support
User interface

- Designed with a primary focus on easy usage
- Deposit and search
Access control

- Today: register in B2SHARE
- E-mail address only requirement
- Prepared for federated access control via EUDAT’s service B2ACCESS
- Two access levels: normal users and data managers
APIs

- OAI-PMH for metadata harvesting
- HTTP REST API for scripting and integration with communities (community portals, CMS, other storage systems)
Data storage

- Data objects
- Persistent Identifiers (EPIC PID)
- Metadata

Integration with other EUDAT services:
- B2SAFE for safe storage and replication
- B2DROP for collaboration
Future

- Geographically distributed
- Federated
- Integration with community repositories
- Integration with B2SAFE
- Metadata store
- Semantic web infrastructure?
- Graph-based data integration?
- Data analysis integration?
EUDAT Pilot Call

EUDAT Call for Data Pilots

15 May – 30 Sept 2015
Know more?

- Start using: https://b2share.eudat.eu
- Try it: https://trng-b2share.eudat.eu
- Read more: http://eudat.eu