

B2SHARE

An Open eScience Data Sharing Platform

Nicolas Harraudeau IT Engineer for EUDAT B2Share at CERN



Schedule

- The context: EUDAT
- B2SHARE An Open eScience Data Sharing Platform
- Invenio as a flexible framework
- Invenio's open community



Context: EUDAT

"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."

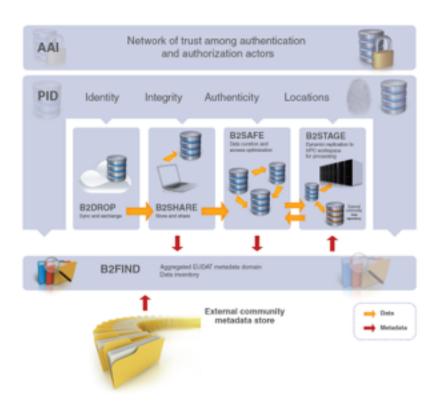
- Users: European researchers (of any discipline)
- Goal: Preserve/Find/Access/Process Scientific Data
- Collaborative and Federated Data Infrastructure
- Working with Research Communities and Scientific Data Centres



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Find Research Data



http://www.eudat.eu/services



Pan-European Data Infrastructure





B2Share

- 📦 Publish long tail data
- Share it with colleagues all over the world
- Compatible with other EUDAT services
 - Replicated storage in B2Safe
 - Searchable with B2Find
 - Sharable from B2Drop
 - Secure with B2Access



B2SHARE An Open eScience Data Sharing Platform

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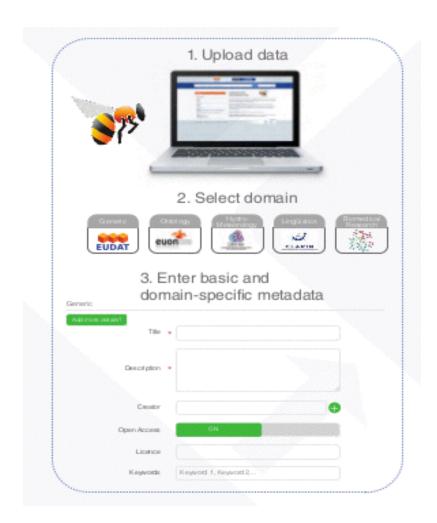
Invenio as a flexible framework

- Currently using Invenio 2.0
- Many customizations (Jinja templates, views, custom modules)
- B2Share 2.0 will use Invenio 3.0 (master branch) which adds even more flexibility.



Custom submission workflow

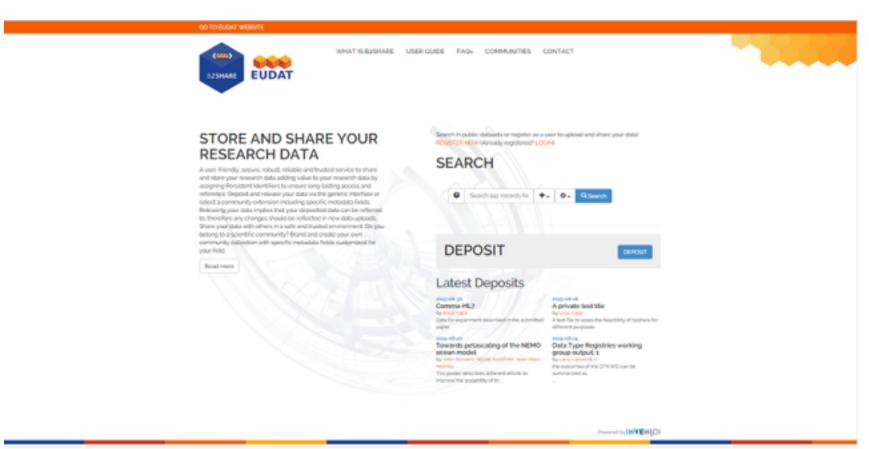
- Upload Files
- Choose a community
- Fill Metadata for this community
- Publish





Custom user interface

- Custom Design
- Moving to custom technology (AngularJS)





APIs

OAI-PMH for metadata harvesting is provided by Invenio. Used by B2FIND

- Custom HTTP REST API
- Currently working on a core record API compatible with Zenodo



Custom Data and Data storage

Store data in



Moving to new Invenio json-schemas for our custom metadata schemas



Custom Authentication and Access control

- B2Access service for authentication
- Separate policy management service
- Three access levels: Users, Community Managers and Admins



Invenio Open community

- We are all contributing to Invenio in some way
 - User requirements
 - Code
 - Feedback (missing or bad documentation, bug reports...)



Want to know more?

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