Integrated management of Project, Funding and Research Data: The experience of BORIS Portal

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Open Science at the University of Bern

- Research Data Management
- Open Access
- Bern Open Publishing
- BORIS Portal
- BORIS Publications
- BORIS Theses
- Identifiers
BORIS Portal – a comprehensive CRIS for the University of Bern

> DSpace Version 5
> Go-Live September 2021

> Two applications:
  > Publication of project- and funding information > Vice Rectorate Research
  > Publication of research data > Clinical Trial Unit of the University of Bern
BORIS Portal: Research Data

- Institutional Research Data Repository of the University of Bern
- Publication of research data and/or metadata as well as supplementary documents such as codebooks
- Making research data citable (DOI, licenses)
- Meets the requirements of the most important funders (FAIR Data Principles)
- Management of access to the research data
- Sensitive data is not allowed to be uploaded, but its metadata, associated documents and data transfer agreements can be published
BORIS Portal: Research Data
Managing Data Access

<table>
<thead>
<tr>
<th>Open</th>
<th>Free Access</th>
</tr>
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<tbody>
<tr>
<td>Embargoed</td>
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<tr>
<td>Restricted</td>
<td>Data set is on BORIS Portal, Access on demand</td>
</tr>
<tr>
<td>Closed</td>
<td>Metadata only, no upload of data on BORIS portal</td>
</tr>
</tbody>
</table>

Metadata and Documentation: CC0

Data Transfer Agreement
- For data that can not be made public
- Individual definition of permitted data use
- Sharing of the DTA together with other data for download and subsequent use.
BORIS Portal: Further Developments

> Integration of BORIS Portal into the credit opening process
> Interfaces to the databases of the research funders
> Overview of the research activities of faculties, institutes, centers and individuals
> Migration BORIS Publications
> Migration to DSpace 7
Upload Step Documents (I)

**Data Upload**
- Accepted data file types:
  - *max 2GB/file

**Data Transfer Agreement (DTA) Upload**
- If you chose the Data Availability of your data to be Embargoed, Restricted, or Closed, it is recommended to upload a Data Transfer Agreement (DTA).
- Read more
- Accepted data file types:
  - *max 2GB/file

**Supplementary Upload**
- Upload documentation needed to understand and re-use your research data, e.g., readme files, codebooks, methods, or study designs. It is highly recommended to upload supplementary files even if access to your data is restricted or embargoed. Supplementary files will be dedicated to the Public Domain (CC0).
- Accepted data file types:
  - *max 2GB/file

> One upload step for three different document types
> Each type is stored in a specific bundle
> Availability of bundle depends on access rights Metadata

<table>
<thead>
<tr>
<th>Access Rights</th>
<th>Data</th>
<th>DTA</th>
<th>Supplementary</th>
</tr>
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</table>
Upload Step Documents (II)

- CC-License can be set for each bitstream
- Saved as metadata of the bitstream instead
Submitting Funding and Projects Documents

> Upload of Document from entity page
> Start a submission:
  > Item type document
  > Automatically related to the entity (via authority)
> Permission on files can be created during submission on specific EPerson from Researcher Profiles
HR application (PARIS) to BORIS Portal

- Import Researcher and Organizations using ETL
- Create and update Affiliation of Researcher Profiles
- Save Unique ID from PARIS (GUID) as External ID of Researcher Profile (SourceID)
- Login from Shibboleth uses GUID as netid
- Post-login triggers connection between Researcher and EPerson based on GUID
Integration Datasets & Projects with Publication Repository

> Implemented a lookup on E-Prints (Publication repository) during submission
> Request metadata from E-Prints search end-point (JSON citation format)
> Retrieve data into:
  > Metadata with citation as value and E-Prints ID as authority (*Datasets*)
  > Nested metadata field with citation and E-Prints ID (*Projects*)
> Custom rendering as citation with link to E-prints (via E-Prints ID)
Further Information & Contact

Website:
www.unibe.ch/ub/openscience
www.4science.it

Questions about BORIS Portal: borisportal@ub.unibe.ch
Thank you for your attention!