Deep Blue / Michigan Research Experts
Integration, Next Century Library Share
Summit

Welzenbach, Rebecca

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Deep Blue / Michigan Research Experts Integration
Rebecca Welzenbach, Research Impact Librarian
Next Century Library Share Summit
November 14, 2018
Source: Byrne, Kate and Stephen Cawley. Connections, Collaborations, & Impact: Data-Driven Approaches to Understanding institutional research expertise. Digital Science case study. October 2018 (pending publication)
This is a diagram showing the underlying information architecture and connections behind Michigan Research Experts.
RT2 - Repository Integration

Add a to-do

- Please confirm all possible ways of how content is currently ingested into the IR. 2 comments (Completed by Jim Ottaviani on 12 Sep)
- If you have an existing IR, how many items does it currently contain? 3 comments (Completed by Jim Ottaviani on 12 Sep)
- What repository platform is your IR based on? 2 comments (Completed by Igor Kondrashov on 11 Sep)
- Do you require one way or bidirectional sync? 2 comments (Completed by Igor Kondrashov on 11 Sep)
- If you use a third party to host or maintain your IR please confirm provider. 1 comment (Completed by Igor Kondrashov on 11 Sep)
- Do you maintain the IR server in-house or is it a hosted service? 2 comments (Completed by Igor Kondrashov on 11 Sep)

RT2 - Preparation

Add a to-do

- Confirm that Deep Blue folks can log in to their Elements accounts. 1 comment (Completed by Rebeca Welztenbach on 11 Oct)
- Review repository tools integration documentation. 8 comments (Completed by Jim Ottaviani on 2 Oct)
- Beescape training for the Deep Blue Team (Jim Ottaviani, Martha Stilt, Jose Blasco, Becky Welztenbach). We want to make sure we’re following best practices and that we assign appropriate roles (who checks off that tasks are complete, etc.). Not sure who to assign this to, so starting w/Igor. Please reassign as appropriate. Or, if it’s a full session, please let me know. We can confirm practices and roles on our next weekly call. (Completed by Igor Kondrashov on 25 Sep)
- Create a table of all the metadatas in DeepBlue. 2 comments (Completed by Igor Kondrashov on 25 Sep)
- Configure the repository API. 5 comments (Completed by Igor Kondrashov on 25 Sep)
- Provide details of current repository software. 1 comment (Completed by Igor Kondrashov on 30 Aug)
- Ports and Firewalls. 1 comment (Completed by Igor Kondrashov on 10 Aug)
- Request Repository Licence from Symplectic. (Completed by Igor Kondrashov on 10 Aug)

RT2 - Harvest Crosswalks

- Build the crosswalk map file (at least 0.5 day per object type intended for harvest) 8 comments (Evelina Buiclag - Fri, Nov 2)
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day) Evelina Buiclag - Mon, Nov 5
- Test and review crosswalk (1 week) Jim Ottaviani - Mon, Nov 12
- Adjust and retest crosswalk (1 week) Evelina Buiclag - Mon, Nov 19
- Enable harvest (1 day) Jim Ottaviani - Tue, Nov 20

Add a to-do

RT2 - Deposit Crosswalks

- Identify functionality required for crosswalk Jim Ottaviani - Tue, Nov 27
- Build the crosswalk map file (at least 0.5 day per object type intended for deposit) Evelina Buiclag - Tue, Dec 4
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day) Evelina Buiclag - Wed, Dec 5
- Test and review crosswalk (1 week) Jim Ottaviani - Mon, Dec 10
- Adjust and retest crosswalk (1 week) Evelina Buiclag - Thu, Dec 13
- Enable deposit (1 day) Jim Ottaviani - Fri, Dec 14

Add a to-do
<table>
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<th>Underlying field in Elements</th>
<th>data type</th>
<th>Default mapping in Repository</th>
<th>Default source field in Repository</th>
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The Michigan Research Experts
Information Architecture

- **UNIVERSITY OF MICHIGAN FEEDS**
  - Person metadata
  - Grants metadata

- **SHIBBOLETH SSO**
  User authentication to support single sign on

- **EXTERNAL DATA FEEDS**
  - Dimensions
  - Scopus
  - Google Scholar
  - Crossref
  - arXiv.org
  - Europe PubMed Central
  - CiNii
  - PubMed
  - RePEc
  - dblp

- **Altmetric**
  Online attention tracking for over 13m outputs

- **MICHIGAN RESEARCH EXPERTS**
  [https://experts.umich.edu](https://experts.umich.edu)

- **Dimensions Profiles**
  Discovery and analysis platform for data from UMich's Elements system.
  Currently includes:
  - 4,859 experts
  - 260,564 publications
  - 17,640 grants
  - 11,901 patents
  - 1,895 clinical trials

- **Dimensions Plus**
  Richly linked research database used by UMich to analyze global research and contextualize their work.
  Currently includes:
  - 97m publications
  - 4.1m grants
  - 42k clinical trials
  - 36k policy documents

- **DEEP BLUE**
  Institutional Repository (Dataport)

- **Elements**
  Research Information Management solution for data collection, curation and enrichment.
  Profile data claimed or added by UMich researchers is used to automatically populate downstream systems including Dimensions Profiles, UMich Deep Blue Repository and other reporting tools

- **Elements**
  Data source for additional UMich Grants, Patents and Clinical Trials not yet captured in Elements

- **readcube**
  Enhanced PDF Viewer for OA articles in Dimensions Profiles and Dimensions Plus

Source: Byrne, Kate and Stephen Cawley. Connections, Collaborations, & Impact: Data-Driven Approaches to Understanding institutional research expertise. Digital Science case study. October 2018 (pending publication)