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 Rebecca Welzenbach on 11 Oct)
- Review repository tools integration documentation. 8 comments (Completed by Jim Ottaviani on 2 Oct)
- Best practice for the Deep Blue Team (Jim Ottaviani, Martha Stull, Jose Blanco, Becky Welzenbach). 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 re-assign as appropriate. Or if a full session doesn't seem needed, perhaps 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 License from Symplectic. 1 comment (Completed by Igor Kondrashov on 10 Aug)

To-do lists

Add a to-do

RT2 - Harvest Crosswalks

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

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 Bulciag - Tue, Dec 4
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day) Evelina Bulciag - Wed, Dec 5
- Test and review crosswalk (1 week) Jim Ottaviani - Mon, Dec 10
- Adjust and retest crosswalk (1 week) Evelina Bulciag - Thu, Dec 13
- Enable deposit (1 day) Jim Ottaviani - Fri, Dec 14

Add a to-do
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<th>Underlying field</th>
<th>data type</th>
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<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 Web of Science
- arXiV
- Crossref
- Europe PubMed Central
- CiNii
- PubMed
- RePec
- dblp

**Altmetric**
Online attention tracking for over 12m outputs

**MICHIGAN RESEARCH EXPERTS**
https://experts.umich.edu

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

**Dimensions Profiles**
Discovery and analysis platform for data fed from UMich Elements system. Currently includes:
- 4,839 experts
- 240,564 publications
- 17,640 grants
- 11,901 patents
- 1,895 clinical trials

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

**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

**Deep Blue**
Institutional Repository (Dspace)

**Data Sync**
- Harvest
- Harvest Deposit

**VIEW PDF**
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)