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

Welzenbach, Rebecca

http://hdl.handle.net/2027.42/148275
Deep Blue / Michigan Research Experts Integration
Rebecca Welzenbach, Research Impact Librarian
Next Century Library Share Summit
November 14, 2018
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
- Web of Science
- arXiv.org, Crossref
- Europe PubMed Central
- CiNii, PubMed, RePEc, dblp

**DEEP BLUE**
Institutional Repository (Dspace)

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

**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

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

**Dimensions Profiles**
Discovery and analysis platform for data fed from UMich Elements system. Currently includes:
- 4,669 experts
- 260,564 publications
- 17,540 grants
- 11,901 patents
- 1,995 clinical trials

**Dimensions Plus**
Richly interlinked research database used by UMich to analyse global research and contextualise their work. Currently includes:
- 97m publications
- 41.1m grants
- 424k clinical trials
- 361k policy documents

**DATA SYNC**
**HARVEST**
**HARVEST DEPOSIT**

> This is a diagram showing the underlying information architecture and connections behind Michigan Research Experts

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.
To-do lists

RT2 - Harvest Crosswalks

- **Test and review crosswalk (1 week)**

RT2 - Deposit Crosswalks

- **Identify functionality required for crosswalk**
- **Build the crosswalk map file (at least 0.5 day per object type intended for deposit)**
- **Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day)**
- **Test and review crosswalk (1 week)**
- **Adjust and retest crosswalk (1 week)**
- **Enable deposit (1 day)**

Add a to-do
<table>
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<tr>
<th>Underlying field in Elements</th>
<th>data type</th>
<th>Default mapping field usage</th>
<th>Default source field in Repository</th>
<th>artefact Field usage for type 'artefact'</th>
<th>Source field for type 'artefact'</th>
<th>book Field usage for type 'book'</th>
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- Deep Blue
  Institutional Repository (Dspace)

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

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

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