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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.
- If you have an existing IR, how many items does it currently contain?
- What repository platform is your IR based on?
- Do you require one way or bidirectional sync?
- If you use a third party to host or maintain your IR please confirm provider.
- Do you maintain the IR server in-house or is it a hosted service?

**RT2 - Harvest Crosswalks**

- Build the crosswalk map file (at least 0.5 day per object type intended for harvest)
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day)
- 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)
<table>
<thead>
<tr>
<th>Underlying field in Elements</th>
<th>data type</th>
<th>Default mapping in Repository</th>
<th>Default source field in Repository</th>
<th>object/item type (internal values)</th>
<th>artefact Field usage</th>
<th>Source field for type ‘artefact’</th>
<th>book Field usage for type ‘book’</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.org, Crossref
Europe PubMed Central, CiNii, PubMed, RePEc, dblp

Almetric
Online attention tracking for over 12m outputs

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

Dimensions
DIMENSIONS PROFILES
Discovery and analysis platform for data collected, curated, and enriched. 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.

Dimensions
DIMENSIONS PLUS
Richly interconnected research database used by UMich to analyze global research and contextualize their work. Currently includes:
- 97m publications
- 4.1m grants
- 434k clinical trials
- 361k policy documents

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)

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

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