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
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
  - PubmedCentral
  - RePEc
  - dblp

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

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

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

- **Dimensions**
  Discovery and analysis platform for data fed from UMich Elements system. Currently includes:
  - 4,885 experts
  - 240,564 publications
  - 17,640 grants
  - 11,901 patents
  - 1,895 clinical trials

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

- **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

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 - Harvest Crosswalks**

- Build the crosswalk map file (at least 0.5 day per object type intended for harvest) 8 comments  
  Evelina Buicig - Fri, Nov 2
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day)  
  Evelina Buicig - Mon, Nov 5
- **Test and review crosswalk (1 week)**  
  Jim Ottaviani - Mon, Nov 12
- Adjust and retest crosswalk (1 week)  
  Evelina Buicig - 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 Buicig - Tue, Dec 4
- Take full backup of Elements, enable verbose logging, limit volume of data for testing phase (1 day)  
  Evelina Buicig - Wed, Dec 5
- Test and review crosswalk (1 week)  
  Jim Ottaviani - Mon, Dec 10
- Adjust and retest crosswalk (1 week)  
  Evelina Buicig - Thu, Dec 13
- Enable deposit (1 day)  
  Jim Ottaviani - Fri, Dec 14
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<th>Underlying field in Elements</th>
<th>data type</th>
<th>Default mapping field usage</th>
<th>Default source field in Repository</th>
<th>object/item type (internal values)</th>
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<th>book</th>
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- 361k policy documents

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

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