Engaging with data creators and users to foster a culture of data sharing and reuse

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THE DATAONE WEBINAR SERIES
TUESDAY, APRIL 11, 2017
Opportunities & Challenges
Culture of data sharing and reuse

**Campus Culture**
- Institutional policy on data sharing
- Disciplinary differences of data sharing & reuse
- Levels of researcher comfort submitting data to repositories
- Reuse of data for undergraduate/graduate thesis

**Library Culture**
- Library expertise in data reference
- Library support for working with data
- Library services in data publication and archiving
Opportunities & Challenges

Engaging with data creators and users

- Slow & Steady
- Messaging
- Education & Training
- Collaboration
Slow & Steady

Acknowledging that engaging with data creators and users to foster a culture of data sharing and reuse is about revolutionizing the culture of research.
Messaging

Adapting how we talk about data sharing and reuse so that it is more meaningful to data creators and users
Education & Training

Providing data creators and users with the skills and knowledge they need to reuse and share data responsibly
Collaboration

Teaming up with campus partners - some of which may be different than partners for developing data management services and infrastructure.
Thank you!

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Data Curation at the National Agricultural Library

Adam Kriesberg, PhD

DataONE Webinar: Engaging with data creators and users to foster a culture of data sharing and reuse

April 11, 2017
Current NAL Organizational Overview

USDA

Research, Education and Economics (REE)

Agricultural Research Service

National Agricultural Library

Information Services Division

Information Products Division

Data Production Division

Knowledge Services Division
Establishment of NAL: Prioritization of Information Dissemination and Preservation

That it shall be the duty of the Commissioner of Agriculture to acquire and preserve in his department all information concerning agriculture which he can obtain by means of books and correspondence and by practical and scientific experiments ...

1862

An Act to Establish a Department of Agriculture,
Sec. 520 [7 U.S.C. 2201] Enacted May 15, 1862
“Library-Mediated Collaborations: Data Curation at the National Agricultural Library”

• Motivation: Information professionals (e.g. archivists and librarians) are increasingly called upon to engage further upstream in the research lifecycle.
Library-Mediated Collaborations

• Research Question: How do information professionals at NAL mediate data curation collaborations?
Data Curation at NAL

• The Knowledge Services Division is the primary data curation group at NAL.
• Four primary projects in the division highlight the range of approaches to data curation embodied in the organization, and different types of reuse facilitated for different user communities.
## Summary of NAL Collaborative Projects

<table>
<thead>
<tr>
<th>Scientific Field</th>
<th>i5k</th>
<th>LTAR</th>
<th>LCA</th>
<th>ADC</th>
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<tbody>
<tr>
<td>Types of Data</td>
<td>Gene sequences</td>
<td>Meteorological instruments, hydrology, ecological data</td>
<td>Unit processes for use in model construction</td>
<td>Inclusive of research data from agricultural sciences</td>
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<td>Collaborative Nature of Project</td>
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<td>Facilitates collaboration for users through sharing of gene annotations. Project grew out of relationship between USDA researchers and international community of insect genomics researchers.</td>
<td>NAL serves as data curation organization for network of 18 research sites maintained by USDA and land grant universities.</td>
<td>Following the success of the initial project, NAL partnering with 2 other federal agencies (Department of Energy and Environmental Protection Agency) to develop federal LCA Commons, uniting access to public LCA data.</td>
<td>Infrastructure building project that promises to lead to additional collaboration between NAL and agricultural researchers, inside and outside of the government.</td>
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Library-Mediated Collaborations

- Library-mediated collaborations are the strategies that libraries employ to become and remain involved in data curation projects.
Library- Mediated Collaborations: Findings

• Three strategies of collaboration emerged from our study:
  – Organizational Collaboration
  – Collaboration in System Design
  – Facilitation of Collaboration
Implications: Questions for Potential Collaborators

1. At what stages of the data lifecycle is the library involved in collaboration around research data?

2. What is the position of the library in relation to users of research data?

3. What is the level of resource commitment for the library in this collaboration?

4. What are the outcomes and benefits of collaboration for the library, data producers, and users?
Data Curation at the National Agricultural Library

Thank you!

For more data curation and NAL, see http://muse.jhu.edu/article/653641

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