Libraries, Leadership & Data Management

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Qualifying the Quantitative: Research Data as Community Development

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Metadata Services in The Andrew W. Mellon Foundation’s Grant Academic Research and University Libraries: A New Model for Collaboration
12 Projects Funded

• Multidisciplinary
• Substantial work with the library (research platform)

Research Themes:
Smart Cities, Cultural Discourse, Arctic Studies
12 Projects Funded

- Multidisciplinary
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- Research Themes:
  - Smart Cities, Cultural Discourse, Arctic Studies
Mapping Victorian Literary Sociability

Visualizing a Canadian Author Archive: Alice Munro

Metadata Services
- controlled vocabularies
  - subject creation
  - data standards
    - templates
    - instruction
    - procedures
  - quality assurance
  - data transformation

Digitally Preserving Alberta’s Diverse Cultural Heritage
Enterprise Metadata Services Model: Workflows for Supporting Research and Metadata Services

- Leveraged existing metadata templates
- Increased expertise with Dublin Core
- Quality assurance for subject creation
- Used Online tools to improve existing workflows
Workflows for Supporting Research:
Digitally Preserving Alberta’s Diverse Cultural Heritage

Consultation with research team
Quotes for services
Templates for resources
Procedures for data entry
Instructional session for resource description

Keywords for subject
Resources description

Quality assurance for data entry
Subject creation
Consultation with Researchers

Data Deposit
Research Team

Library
Embedded Metadata Services Model: Improving Expertise in Data Transformation

- Continued consultation
- Template creation
- Data transformation and crosswalks
- Deepening understanding of data standards (TEI)
- Selection of controlled vocabulary
- Linked data principles using VIAF’s authority file
- Data creation using software to harvest data with OpenRefine
- Collaborative teaching opportunity
- Contributions to scholarship
- Continued Collaboration
Metadata Services throughout Mellon

- Total Consultations
- Quality Assurance
- Controlled Vocabularies
- Metadata Templates
- Data Creation Support
- Support Staff Involved

Round 2 vs Round 1
Resource Allocation and Reshaping Services

Round 1: 2017 – 2018

- Drop-in hours for researchers
- Templates for non-bibliographic materials and data
- Support for data deposits

Common Resources and Service

- Templates for data creation
- New metadata schemas
- Expertise data standards, controlled vocabularies, subject creation, and quality assurance
- Metadata education/instruction
- Data creation support
- Opportunities for continued collaboration

Round 2: 2018 – 2019

- Data harvesting
- Data transformation and crosswalks
- Templates for text encoding
Thank you

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Positioning the Library for Leadership in Institutional Data Governance
Arthur Downing
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Data Governance for Enterprise Data Management
Interest in Enterprise DM

• Enterprise Data Management to support analytics/BI
• Higher Ed Drivers: Enrollment (~Revenue) and Student Success (Retention, Graduation)
• 2018 study by NASPA, Educause and AIR:
  – 89% of higher ed institutions investing in predictive analytics for student outcomes
  – “this requires high levels of coordination between the many units that collect and analyze student data.”
Data Governance Enables EDM

• 2017 Study by NASPA, Educause and AIR:
  “Institutions reported that prior to considering the use of predictive analytics, they created data governance committees to make decisions about how data would be accessed, collected, analyzed, and reported across departments and divisions.”

• Data Governance = The framework for making decisions about how to manage one’s data assets and “the exercise of decision-making authority for data-related matters” (Data Governance Institute).
Data Governance Defined

Data Governance is a system of decision rights and accountabilities for information-related processes, executed according to agreed-upon models which describe

• Who can take what actions with data
• When and under what circumstances
• Using what methods

Source: Data Governance Institute
Data Governance Framework

• Defined Scope
• Principles
  – “Collaboration – enterprise data is a shared resource and not owned by any specific business area.” (Ladley, 2012)
• Policies
• Organization around Hierarchical Roles
• Functions (write policies, assess data quality, etc.)
• Metrics for Assessment
Roles and Responsibilities

Source: University of Georgia. Office of Institutional Research.
Libraries in Enterprise Data Governance
What Libraries Bring to the Process

• Data Management Skills & Experience
• Institution-Wide Orientation
• Reputation for Collaboration
• Data Literacy Instruction (see Koltay, 2016)
• Use of Foundational Principles
  – “All information resources that are provided directly or indirectly by the library, regardless of technology, format, or methods of delivery, should be readily, equally, and equitably accessible to all library users.” (ALA Core Values)
Efforts at Baruch College
Baruch College

- Senior College with 18,700 students
- CUNY system of 25 campuses
- PeopleSoft ERP: HR, Finance & Student Information
- Limited Data Governance
  - Some business processes excluded (e.g., graduate admissions)
  - Campuses create own data warehouses & “shadow systems”
- Information Services = Library + IT + IR
Our Data Governance Organization

- President's Cabinet
- DG Steering Committee
- DG Governance Council
- DG Working Group A
- DG Working Group B
- DG Working Group C
- DG Working Group …
Positioning the Library: 1st Steps

• Include Librarians in Data Governance Charter
• Designate Librarians in DG Roles (Stewards & Custodians)
• Demonstrate Librarians’ Relevant Data Skills
  – Example Projects:
    • Metadata for Photographic Images
    • Review of Rankings
• Prepare Librarians to Participate
Sources - 1

Sources - 2

- Ladley, J. (2012). Data governance: How to design, deploy and sustain an effective data governance program. Waltham, MA: Morgan Kaufmann.
Thank you

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