Developing Human Infrastructure in Research Libraries to Support Research Data Services

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Christie Peters, University of Kentucky Libraries

Technological & human infrastructure supporting data stewardship are preconditions to meaningful access & reuse, as “homeless” data quickly become no data at all.

(Berman and Cerf 2013)
The Complexity of RDM Support in Libraries

Technical Services
- Digital Scholarship
- Metadata
- Information Technology

Public Services
- Liaisons
- Reference
- Information Literacy
- Copyright

Academic Libraries
- Technical Services
  - Sciences & Engineering
  - Medical Center
- Public Services
  - Social Sciences
  - Humanities
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Pre-Workshop Survey

Knowledge & Comfort on Data-Related Topics

- Open Access
- Copyright
- Author Rights
- Data Citation
- Repositories
- Finding Data
- Research Identifiers
- Data Preservation
- Metadata
- Data Sharing
- Data Lifecycle
- Altmetrics
- Data Analysis/Manipulation
- DMP Consultation
- Funder Mandates/Policies

Knowledge
Comfort

Knowledge vs. Comfort comparisons for various data-related topics.
**Objectives:**

1. Describe the research data lifecycle & the importance of RDM best practices

2. Develop expertise with the research data lifecycle through hands-on activities

3. Demonstrate RDM best practices through the development of a DMP for a research case study using DMPTool
RDM Workshop

- **Day 1:** Workshop Overview, Research Data Lifecycle, Introduction to DMPTool
- **Day 2:** Data Formats, Naming Conventions & Data Description
- **Day 3:** Data Storage, Backup & Security
- **Day 4:** Data Sharing, Preservation & Archiving
- **Follow-Up:** Brown Bags & Guest Speaker

**Dates:** February 2-5
- 3 – half days, 1 – full day

**Attendees:** Liaison Librarians
- 14 participants w/ ~ 20 years of service

**Guest Speakers:** UK Campus
- 9 speakers from service units & departments at UK
Day 1 – Overview

- Associate Director, Proposal Development Office
- Professor & Interim Director HPC, Chemical & Materials Engineering

Day 2 – Metadata

- Research Staff, Biosystems & Agricultural Engineering

Day 3 – Storage, Backup & Security

- Chief Information Security Officer, Campus IT
- UK Records Manager, Libraries
- Technical Services & University Archivist, Libraries

Day 4 – Data Sharing

- Assistant Professor, Political Science
- Louis Boyarsky Professor, Physiology

Day 4 – Archiving & Preservation

- COO & Service Manager, DPN

Workshop Guest Speakers
Workshop Case Study

- Case Study: Combining data from 10 years of research for retrospective studies on the effects of exercise and diet on the risk of diabetes
  - New England Collaborative Data Management Curriculum (NECDMC)

- Assigned interdisciplinary teams

- At the end of each presentation, teams worked on related aspects of the case study

- Groups shared DMP with cohort one week after workshop
Post-Workshop Survey Results

Comfort-Level
DMP Consultation

Comfort-Level
Funder Mandates & Policies

- Very anxious
- Anxious
- Neutral
- Comfortable
- Very comfortable

Pre-workshop  Post-workshop

Pre-workshop  Post-workshop
Post-Workshop Survey Results

■ Favorite part of workshop
  ■ Guest speakers

■ Least favorite part of workshop
  ■ Difficulty of learning DMPTool

■ General comments
  ■ More pre-reading
  ■ Discipline-specific case studies
  ■ More time dedicated to DMPTool
Semester-Long Follow-Up

Brown Bags

- Open Educational Resources
  - Adrian Ho & Carla Cantagallo

- Data Management Resources
  - Christie Peters

- Funder Mandates
  - Robert Shapiro

External Speaker:

- Kristin Briney
  - Data Librarian @ University of Wisconsin-Milwaukee Libraries
  - Author, Data Management for Researchers: Organize, Maintain, and Share Your Data for Research Success
Next Steps

- 2017 RDM workshop
- RDM badging program
- Administrative data services committee
REFERENCES


- New England Collaborative Data Management Curriculum (NECDMC) – library.umassmed.edu