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Starting the Conversation

University-wide Research Data Management Policy

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OCLC Research

Overview

- Genesis and approach
- Benefits and advocacy
- Stakeholders
- The conversation

Source

- OCLC
  - OCLC Research
    - OCLC Research Library Partnership
      - Advancing the Research Mission
        - Library's Role in Data Curation
          - Data Curation Working Group

Jon Platek, Map of the course, watershed, and major tributaries of the Mississippi River.

Data Curation Working Group

- Daniel Tsang, University of California, Irvine *(Chair)*
- Anna Clements, University of St. Andrews
- Joy Davidson, Digital Curation Centre
- Mike Furlough, Pennsylvania State University
- Amy Nurnberger, Columbia University
- Sally Rumsey, University of Oxford
- Anna Shadbolt, University of Melbourne
- Claire Stewart, Northwestern University
- Beth Forrest Warner, Ohio State University
- Perry Willett, California Digital Library

Distribution

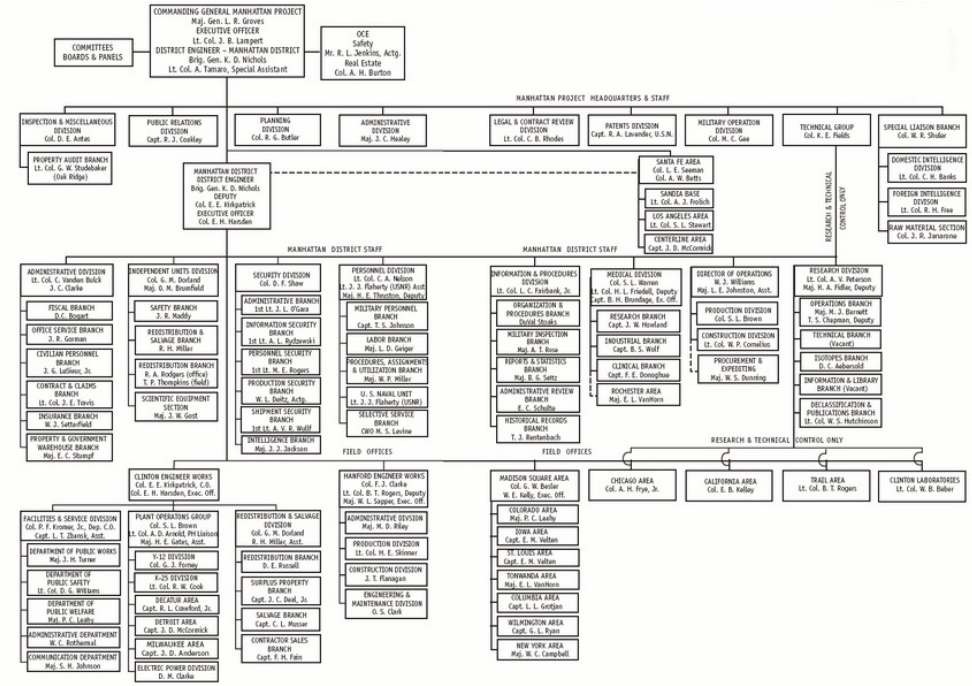
- Data Curation Working Group
  - OCLC Research Library Partnership Listservs
    - OCLC Publication
      - EDUCAUSE Review Online
        - CNI Fall Briefing
          - ????

Benefits of data management

- Validation of results
- Reuse in new areas of research
- Curation throughout data lifecycle
- Efficiencies of scale
- Clear expectations for data managers
- Uniform requirements for researchers
- Consistent standards foster harmony
- Ease compliance and improve access
- Benefit <u>all</u> research

Stakeholders

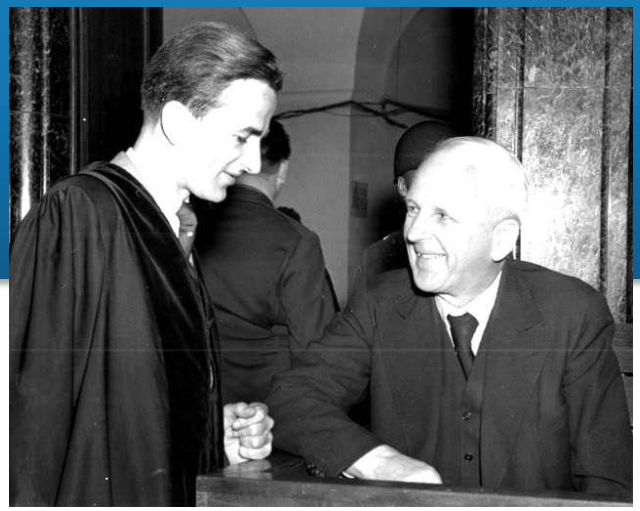
- The University
- Office of Research
- Research Compliance
- IT Department
- Researchers
- Academic Units
- Library



The University

- Assets from research mission
- Safeguard investment
- Balance commercialization with sharing
- Responsible steward
- Economical and sustainable
- Contribution to the public good
- Ensure future research funding
- Commitment to open access
- Contribute to academic integrity and responsible stewardship

Office of Research



- Administers sponsored research
- Key contact with funding agencies
- Responsibility for technology transfer, patent, IP
- Tracks awards, progress reports, and completion
- Point of coordination
- Interest in funding, policy, and governance
- Assists researchers with data mgmt costs
- Embed data management into workflows

Research Compliance

- Compliance with policies and regulations
- Reviews policies, weighs benefits and risks
- Training, communication, and enforcement
- Uniformity of data management expectations, requirements, and standards
- Measures of validation
- Responsibilities to data housed elsewhere
- Impacts of changing data retention requirements

IT Department

- Data acquisition, storage, management, security, integration, mining, and visualization
- Systems for documenting, depositing, managing, archiving, and preserving data
- Search and retrieval and access
- Economies of scale, integration
- Coordinating technology and expertise
- Integration with CRIS, VRE to make data management part of the researchers' workflow

Researchers

- Career advancement depends on research outputs.
- Confront a mix of requirements
- Negotiate publishing agreements
- May deposit data in external repositories
- Resist new administrative burdens
- Trust is critical
- Must be informed of decisions and procedures

Academic Units

- Manage research projects
- Support proposal writing, budgets
- Administration and tracking
- Some have their own technology infrastructure
- Close relationships with the researchers
- Good conduits for communication
- Might welcome guidance and infrastructure

The Library

- Experience with selection, repositories, preservation, and access
- Subject area and functional liaisons
- Help with appraisal, deposit, retention, metadata
- Researcher name disambiguation
- Copyright and privacy issues
- Guidance for deposit in external repositories

Creation of data-management plans

Elements of the Conversation 1/4

- **Who Owns the Data?**
  University? Funding agency? Researcher?

- **What Requirements are Imposed By Others?**
  Funders? Publishers? Other institutions?

- **Which Data Should Be Retained?**
  Only data worth keeping. Data from failed experiments? Data derived from secondary analysis?

Elements of the Conversation 2/4

- **Who decides which data to keep?**
  Researcher? Someone else? Domain experts? Peers? Reuse? Validation? Expensive to recreate?

- **How Long Should Data Be Maintained?**
  Long-term value? Subject to review? How tracked? Reappraisal? Extension? Metrics? Who reassesses? How managed? Destroy? Document?

- **How Should Digital Data Be Preserved?**
  Unique needs? Cloud storage? DMPs preserved? File formats? Descriptors? Standards?

Elements of the Conversation 3/4

- **Are there Ethical Considerations?**
  IRB or grant conditions? IP, privacy, or access restrictions? Consent forms? Risk management?

- **How are Data Accessed?**
  Metadata discoverable? Deeper support? Which indices? Service-level assurances? Monitor and quantify access? Impact? Measure?

- **How Open Should the Data Be?**
  Constraints? Share case-by-case? Embargoes? Justification provided?

Elements of the Conversation 4/4

- **How Will Costs Be Managed?**
  Include in proposals? Indirect or direct costs? Time-limited? Share costs? Co-investment? Which services covered? How to assess costs? ROI?

- **What are the Alternatives to Local Data Management?**
  National, international, or discipline-based data center? Other institutions? Local metadata for external data? Multiple homes?

Changes ahead

- Office of Science and Technology Policy mandate
- ARL, AAU, and APLU's proposal, "SHared Access Research Ecosystem (SHARE)
- 30 organizations that archive scientific data released a call for action urging the creation of sustainable funding streams

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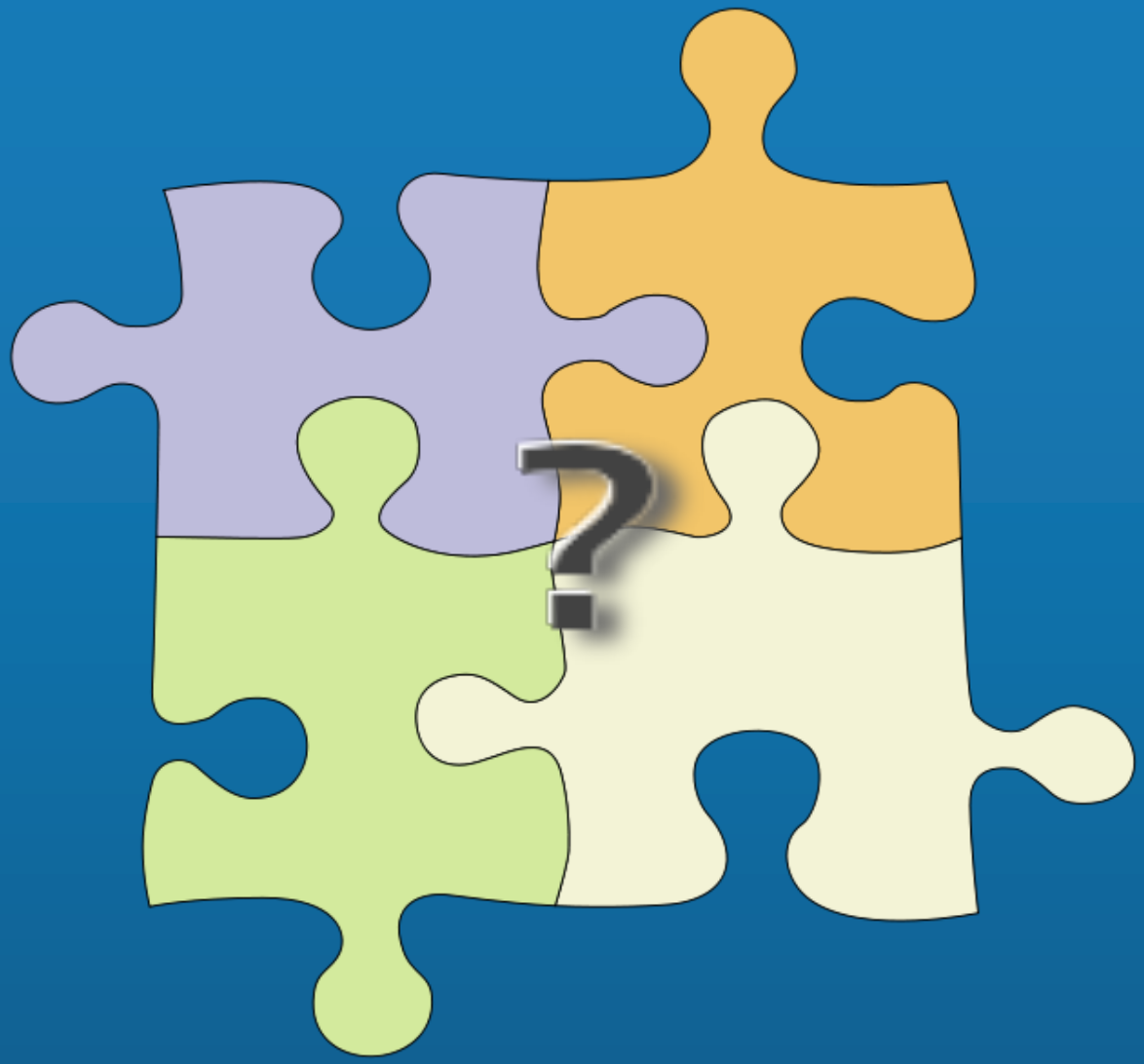

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