



OCLC Americas Regional Council Conference

Library Data; From Linked Data to the Research Landscape

JOE MOCNIK, NORTH DAKOTA STATE UNIVERSITY

MACKENZIE SMITH, UNIVERSITY OF CALIFORNIA, DAVIS

#OCLCARC18





OCLC Americas Regional Council Conference

Academic Research Landscape: A Setting for Developing Partnerships

JOE MOCNIK

NORTH DAKOTA STATE UNIVERSITY

#OCLCARC18



There are challenges to the librarian and researcher since data sources are usually in silos and use different standards, rendering data integration difficult.

--2018 Top Trends in Academic Libraries



About NDSU

North Dakota State University is distinctive as a student-focused, land-grant, research university.



Research Data Management Resources

[About Us](#)

[Contact](#)

Data Management/Open Access

[Overview](#)

[Discipline Related Repositories](#)

[Federal Agency Information](#)

[Planning Resources and Tools](#)

NDSU Resources

[Libraries](#)

[Information Technology](#)

[Research and Creative Activity](#)

Overview

Most federal funding agencies now require a Data Management or Data Sharing Plan as part of a proposal submission. This is a formal document that outlines the type of data you are collecting, standards used to describe the data (metadata), who owns the data and how it can be accessed, considerations needed to protect sensitive information, including study participant confidentiality and intellectual property protection, and how you will ensure the archiving and preservation of the data. Carefully read proposal solicitations and agency guidelines for specific data plan instructions. Requirements may vary by agency and program.

For specific information on federal agency requirements, see [Federal Agency Information and Open Access](#).

Data Life Cycle

Take into account the life cycle of data when developing data management plans. There are various stages to consider, including:

Proposal Planning and Project Start-up

- Collection
- Analysis
- Sharing
- Archiving
- Re-Using

Data management throughout the life-cycle of your research can be beneficial in numerous ways:

- Save time
- Increase research impact
- Ensure long-term ability to preserve fragile data sets
- Organize and categorize data for efficient access, analysis, queries, etc.
- Support sharing and open-access
- Focus on data sharing as an objective of investigation
- Support data-intensive discovery across disciplines
- Promote verification and replication of research analysis and findings



Opportunity

- **Embrace data as valuable assets**
- **Uphold research in the digital age**
- **For investigators to conduct research**
- **For academic institutions to advance knowledge and develop competitive advantage**
- **For librarians to extend expertise to manage and preserve scholarship**

Leverage diverse responsibilities

- **Risk management**
- **Compliance & privacy**
- **Information technologies**
- **Systems administration**
- **Legal counsel**
- **Provost & other policy stewards**
- **Faculty researchers**
- **Faculty affairs**
- **Research management**
- **Library and archives**
- **Graduate education**

Why librarians & research data?

Traditional roles

- **Collecting**
- **Curating**
- **Preserving**
- **Describing**
- **Discovering**
- **Accessing**

Why librarians & research data?

- **Receptiveness for RDM**
- **Long term funding cycles**
- **Sustainable models to collect, preserve and access**
- **Trained info managers**
- **Partnerships with researchers**
- **Training next generation researchers**

Intellectual entrepreneurship models to empower others

- **Create synergistic relationships cross disciplines**
- **Harness, integrate, and use intellectual energy**
- **Take advantage of university knowledge assets**
- **Empower faculty and students to become change agents**

Borrow tools for leaning into the future of rapid technological change

- **Missional shifting**
- **Transitional technologies**
- **Predicting the future**
- **Options for approaching the future**

Evolve the organization beyond its hierarchy

- Embrace diverse partnerships
to evolve the library



Intellectual entrepreneurship efforts

- **Realign and train staff for new expertise**
- **Identify how researchers conduct work:**
 - Use cases, observation, group reflections help understand challenges
 - Faculty survey identifies range of awareness
- **Convene self-governance Forum of campus leaders**
- **Offer support services to improve productivity**

Transforming Libraries for research support

- **Mission to be a learning enterprise**
- **Changing metaphors about collections**
- **Transition beyond server administration**
- **Pragmatic combined view of the future**

Evolve organization beyond its hierarchy

- **Matrix direction**
- **Professional Forum**
- **Libraries Advisory Group**
- **Expand your skills...Expand your engagement**
- **Library Explorers**
- **Libraries Faculty Fellows**

In progress

- **Research output is an institutional asset**
- **Managing research output crosses multi-campus units**
- **Librarians empower change agents**
- **Partnering around research infrastructure is emerging**



OCLC Americas Regional Council Conference

THANK YOU

Joe Mocnik

NORTH DAKOTA STATE UNIVERSITY

Josip.Mocnik@ndsu.edu