Open Scholarship in the Digital Age

Data Initiatives at North Dakota State University

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Agenda

- What is going on with research data?
- AAU/APLU document
  - Best practices and trends
- NDSU digital scholarship efforts
  - Digital Scholarship Advisory Board
- Road Ahead?
Digital Scholarship

Digital scholarship creates research in all forms, including digital and data-intensive scholarship, digital humanities, and digital publishing.

Open scholarship practices accelerate the dissemination of scholars’ work and improve its quality, impact, and reach.

--Association of Research Libraries
Data Sharing and Management
Snafu in 3 Short Acts
What is your story with data sharing and management?
AAU-APLU Public Access Working Group
Report and Recommendations
November 29, 2017

In this era of open scholarship, greater access to research findings and data, especially when grounded in the FAIR principles (findable, accessible, interoperable, reusable), has proven to be an important way to accelerate scientific progress and advance innovation to better serve the public good. Although there is general agreement about the value of increased public access to data, ensuring such expanded access will require a significant culture shift at universities and among their faculty, thoughtful and carefully crafted new government policies and practices, and investment in the infrastructure required to make data publicly accessible.
AAU/APLU Goals

- Provide public access to research data
- Minimize administrative burden
- Allow exceptions for privacy, security, and IP
- Prioritize data quality and evaluation in preparing, documenting, and releasing data
- Balance the costs of data access against the benefits of access
- Recognize that data types and accessibility needs vary across disciplines
- Consider the community of interest and duration of usefulness for the data to make retention and access requirements clear
Guidance for Research Universities

• Ensure access to data sets associated with a peer-reviewed scholarly works
• Provide clear guidance to researchers to ensure uniformity in data access plans
• Develop documentation, metadata, and standards to support sharing and stewardship of the data
• Implement policies, develop digital repositories, and reward researchers
NDSU Digital Scholarship

• Digital Scholarship Advisory Board
• Raise awareness of digital scholarship happening at NDSU
• Connect University faculty, staff, and students with the assistance needed at any point during a digital scholarship project
Digital Scholarship components

Faculty & students
- Research
- Projects
- Publications
- Datasets

Digital Scholarship staff
- Data Services Librarian
- Digital Archivist
- Systems
- RAMD
- Subject liaisons
- Special Collections

Digital assets
- Institutional Repository
- Data Archive
- Digital Archive
- Media Archive
- Finding aids

Digital Scholarship facilities
- Digital Scholarship Lab
- Digital Fabrication Lab
- Presentation Studio
- BARC

NDSU support
- Research & Creative Activity
- CCAST
- Information Technology Services
- Technology Learning & Media Center

NDSU

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Digital Scholarship Advisory Board
NDSU Libraries Digital Scholarship Facilities
(existing/proposed)

Digital Scholarship Lab
(Main Library)
- Data visualization
- GIS
- Text mining
- Online exhibits, projects, etc.

Digital Fabrication Lab
(Main Library)
- 3D printing
- Virtual reality
- Augmented reality

Presentation Studio
(Main Library)
- Audio/video recording

Business and Applied Economics Research Center
(Barry Hall)
- Data discovery, access, curation
- Data visualization
- Virtual reality
- Augmented reality
- 3D prototyping lab

Proposed facility
Proposed service
Existing facility
Existing service

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Next Steps

- Engagement on campus
- Structure and process
- Customization
- Sustainability
- Building a community of open scholarship
- Repeat…
Services

• Data management plan
• Preservation
• Metadata and linked data
• Research data services
• Subject matter consultations
• Project help
  – Scholarly publishing
  – Special collections
Q & A