

Many hands make new opportunities: Institutional collaborations in supporting data stewardship

Alicia Hofelich Mohr, Ph.D.
University of Minnesota LATIS

Lisa Johnston
University of Wisconsin-Madison



UNIVERSITY OF MINNESOTA
Driven to DiscoverSM

University of Minnesota - Twin Cities

18 Colleges

12,000 Graduate Students

4,000 Faculty

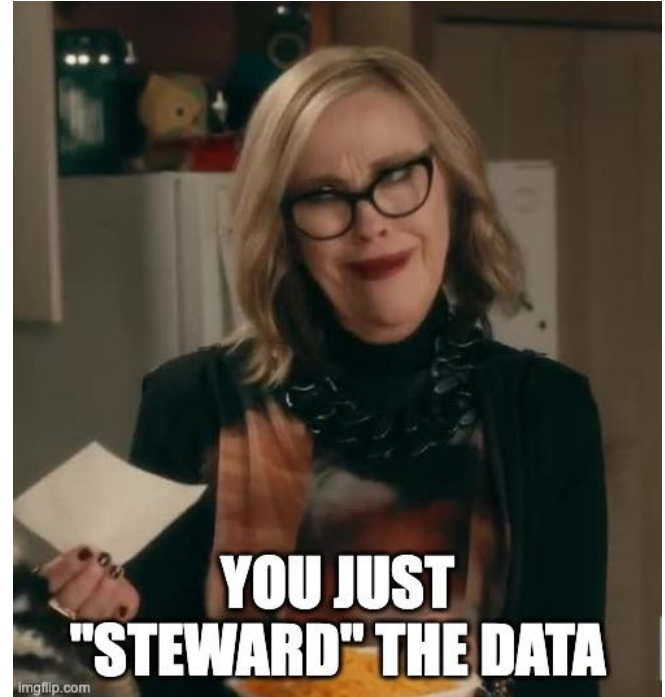
> 150 departments



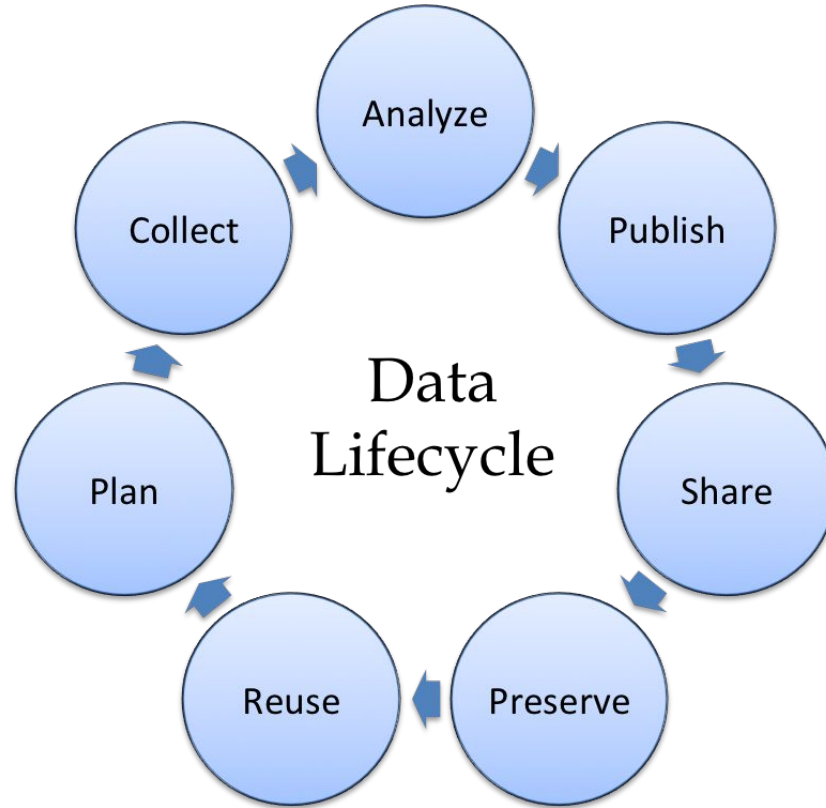
The Minneapolis campus of UMN-TC

Supporting "Data Stewardship"

- Broad set of activities at both the individual and institutional level
- Ensures data are well managed throughout their lifecycle
- Applies to resources supporting data throughout the research lifecycle



Data lifecycle

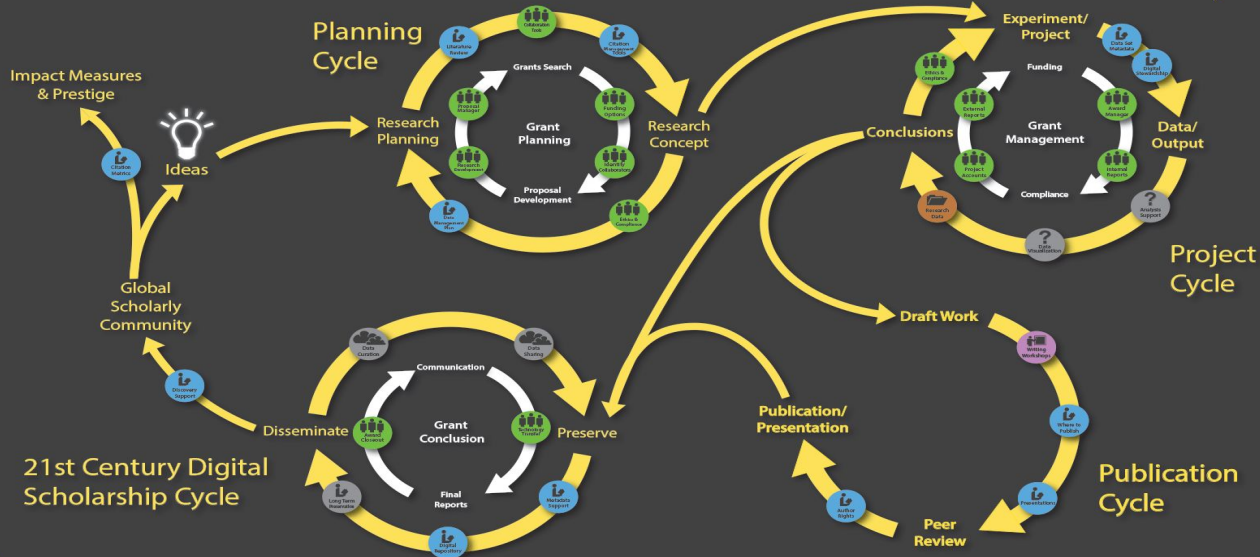


Often looks more like this...

Research Lifecycle at University of Central FL

Version 2.0

A library-led institutional collaboration to develop a mental model of research support and services



All content is available under the Creative Commons Attribution-ShareAlike license. <http://creativecommons.org/licenses/by-sa/3.0/us/>

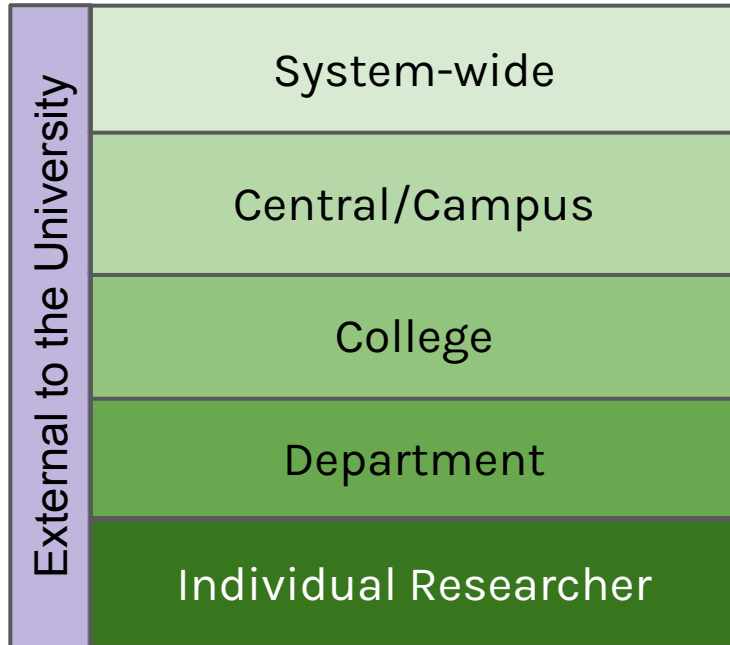
Legend

- Research Data Management
- Faculty Center for Teaching and Learning
- Libraries
- Office of Research and Commercialization
- Institute for Simulation & Training
- Not yet supported

Design Inspiration by OpenWetWare

library.ucf.edu/ScholarlyCommunication

U of M Researchers have lots of potential people to turn to for support...



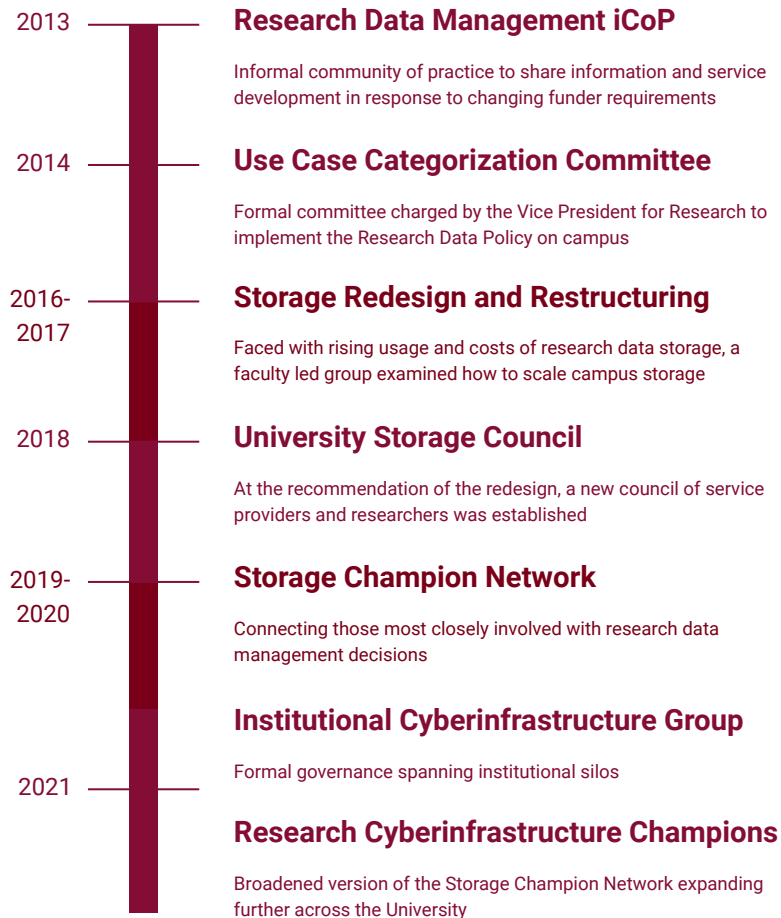
- IT system administrators
- Grants coordinators
- Human resources/ finance staff
- Collegiate research deans
- Experts in....
 - stats, supercomputing, informatics,
 - data security
 - copyright/legal
- Technology commercialization office
- Repository / data curators
- Other peers...

Connections are vital

- How do we effectively connect research service providers at a large, de-centralized university?
- We've asked this question before...
 - Hofelich Mohr & Lindsay (2014) - "It takes a Village" IASSIST presentation
 - Hofelich Mohr, Johnston, & Lindsay (2016) - chapter in Kellum & Thompson's *Databrarianship*
- After nearly a decade of trying to bring together service providers at the University of Minnesota... what have been the fruits and follies of this labor?

The path

Many groups charged with this work have formed, dissolved, and transformed during this time




Notable wins of this work

Research Data Management Policy (2015)



The screenshot shows the top portion of a document page. At the top left is the Minnesota State logo and the text "ADMINISTRATIVE POLICY". At the top right is a "Print" icon. The main title is "Research Data Management: Archiving, Ownership, Retention, Security, Storage, and Transfer". Below the title is a "Policy Statement" section. The text of the policy statement begins with "Management of research data is a shared responsibility among: the Office of the Vice President for Research (OVPR); the Office of the Vice President and Chief Information Officer (OVPCIO); the Academic Health Center (AHC); the University Libraries and system campus libraries; the colleges, schools and system campuses; and the Principal Investigator (PI)." To the right of the text are two yellow buttons: "+ Table of contents" and "+ Responsible Individuals and Dates".

 ADMINISTRATIVE POLICY Print 

Research Data Management: Archiving, Ownership, Retention, Security, Storage, and Transfer

Policy Statement

Management of research data is a shared responsibility among: the Office of the Vice President for Research (OVPR); the Office of the Vice President and Chief Information Officer (OVPCIO); the Academic Health Center (AHC); the University Libraries and system campus libraries; the colleges, schools and system campuses; and the Principal Investigator (PI).

+ Table of contents

+ Responsible Individuals and Dates



University-wide secure storage (2016)

Storage Selection Tool

- Pick storage based on security, size, versioning, and backup needs
- Reproducible management of this tool, as it is fed from a Google Sheet

Select Digital Storage Options

Answer the questions below to describe your storage needs, skipping any that are not applicable to your project. The tool will display supported University of Minnesota solutions that may work best.

To explore data options available to members of the UMN Health Care Component please visit the [Health Sciences Technology: Request Services](#) page.

For more information, contact the [Research Cyberinfrastructure Champions](#) at rcc-help@umn.edu.

Adapted from: Cornell University Research Data Management Service Group and Cornell Information Technologies Custom Development Group (2018). Finder Module. Drupal 8. <https://github.com/CU-CommunityApps/CD-finder>

STEP 1 Identify Your Needs

Your answers will exclude unsuitable **Services and Technologies** options.

[Start Over](#)

STEP 2 Select Services and Technologies

Select the options you would like to compare and details will display at the bottom of the screen. Select **Compare Selections** to jump to the details.


[Select All](#)

<p>What campus are you on?</p> <p><input type="checkbox"/> Crookston</p> <p><input type="checkbox"/> Duluth</p> <p><input type="checkbox"/> Morris</p> <p><input type="checkbox"/> Twin Cities</p> <p><input type="checkbox"/> Rochester</p>	<p><input type="checkbox"/> Application Storage (OIT) Shared space for departmental applications</p>	<p><input type="checkbox"/> Box Secure Storage Free secure cloud-based storage</p>	<p><input type="checkbox"/> CrashPlan Data protection software for endpoint devices</p>	<p><input type="checkbox"/> Crookston Storage For IT professionals at UMC</p>
<p>Are your data regulated by external security regulations? If yes, please select the regulation that applies.</p> <p><input type="radio"/> Yes, contains Social Security Numbers (SSN)</p> <p><input type="radio"/> Yes, contains Payment Card Industry Data (PCI)</p> <p><input type="radio"/> Yes, contains financial information (GLBA, financial aid)</p> <p><input type="radio"/> Yes, contains attorney-client privilege data</p>	<p><input type="checkbox"/> Departmental Data Storage Storage for the University Community</p>	<p><input type="checkbox"/> DRUM Publish data for public access</p>	<p><input type="checkbox"/> Duluth Storage for Servers For IT professionals at UMD</p>	<p><input type="checkbox"/> Elevator Cloud-based storage for digital assets</p>
	<p><input type="checkbox"/> Google Drive Free cloud storage provided by Google</p>	<p><input type="checkbox"/> Google Shared Drives Free cloud storage provided by Google designed for teams</p>	<p><input type="checkbox"/> High Performance Storage (MSI) Provided by MSI for high performance needs</p>	<p><input type="checkbox"/> High Performance Storage (OIT) Temporary, high-speed storage for data and computational tasks</p>

Check it out: z.umn.edu/sst

Security Decision Form

- Navigate University security policy
- Classify research data according to 50+ laws, rules, regulations
- Know what to choose on the Storage Selection Tool



UNIVERSITY OF MINNESOTA
Driven to Discover®

Unsure where to securely store your research data?



Use this brief form to
find the **data security classification** for your data and
the next steps to take to store them safely.

Check it out: z.umn.edu/classify-data

Storage Restructuring Initiative



- Moving from "everything in one box" to "different boxes for different needs"
- Motivated by expense challenges
- Driven by faculty feedback
- But Champion Networks were vital mechanism for input from broad University audience

Storage Champion Network



- Comprised of research and IT experts across the University
- Connected departmental, collegiate, and campus support staff
- Training and webinars to keep community network connected and informed

Research Cyberinfrastructure Champions



- Dedicated staff time
- Moving beyond storage
- Mechanism for academic & library involvement in IT decisions
- Policy development and guidance
- More extensive webinar series

Reflecting on the Village(s) and its people

- Campus-wide data management strategy still predominantly lead by IT
- Network is large, but involvement led by only a few
- "Data management" and "data stewardship" can mean very different things to IT, general counsel, researchers
- As issues become more narrow and specific, fewer gains from assembling a village
- Need for sustainable communication

Translating to different villages

- Our success was bringing people under different units together
- Frame this as a campus-wide initiative
 - Own it together
 - Celebrate outputs of system
- Trajectory of work is advancing, even if village changes
- Challenges similar across institutions, as well as for data types (e.g., enterprise versus research data)

Thank you!

Alicia Hofelich Mohr
hofelich@umn.edu

Lisa Johnston
lrjohnston@wisc.edu



(uncredited slide editor)