The UNIVERSITY of VERMONT

FACULTY SENATE

Research, Scholarship & the Creative Arts Committee
November 8, 2018
427a Waterman 12:30-2:00

Present:	Brandon Ackley (GSS), Steve Budington (CAS), Chris Burns (LIB), Mary Cushman (LCOM), Rachelle Gould (RSENR), Britt Holmen (CEMS), Albert van der Vliet (COM)
Absent:	Tammy Kolbe (CESS), Dimitry Krementsov (CNHS), Steve Keller (CALS), David Neiweem (CAS), Cathy Paris (Faculty Senate President), Matthew Price (CAS), Chuck Schnitzlein (GSB)
Guests:	Cindy Forehand (Dean of Graduate School)

Chair Chris Burns called the meeting to order at 12:32pm in 427a Waterman.

1. **Approval of the Minutes.** The minutes of September 12, 2018 and October 11, 2018 were approved as written.

2. **Data Management.**

Research Data Management @ UVM:

Progress and next steps

Christie Silkotch

- Science and Data Librarian
- New position, hired July 2017

- **Liaison areas**: Animal Science, Biology, Chemistry, Food Systems, Geology, Nutrition & Food Science, Physics, Plant & Soil Science, Plant Biology, Zoology, Extension

- **Data**: ? 25%?

What Do We Mean By Data Management?

Data management refers to the **storage**, **access**, and **preservation** of research data.

Data management practices cover the **entire lifecycle** of the data, from planning the investigation to conducting it, and from backing up data as it is created and used to long term preservation of data deliverables after the research investigation has concluded.
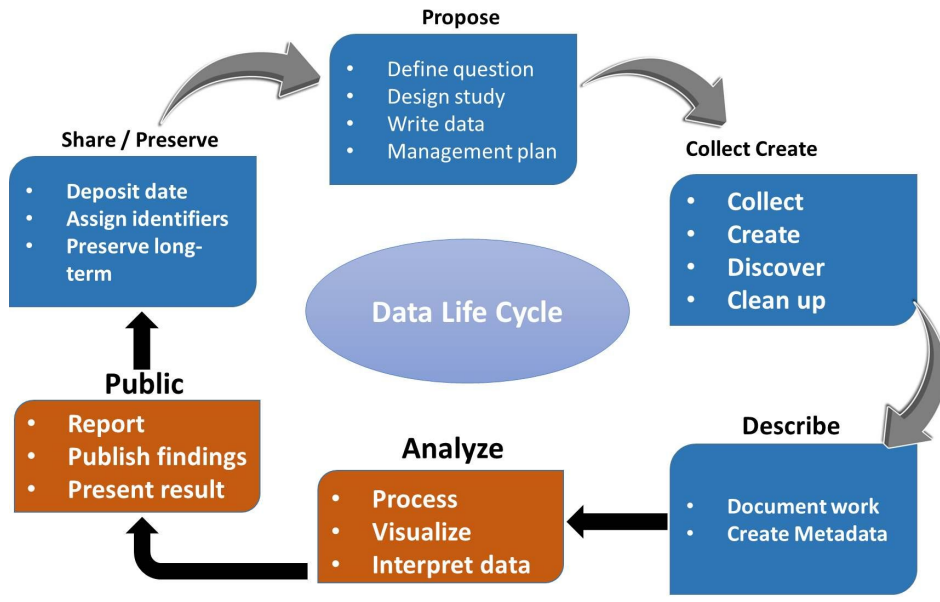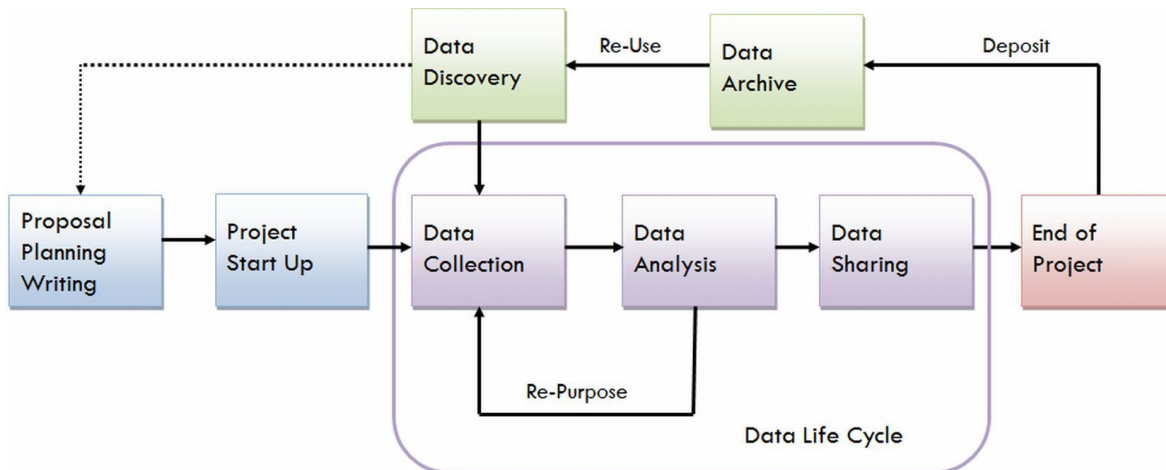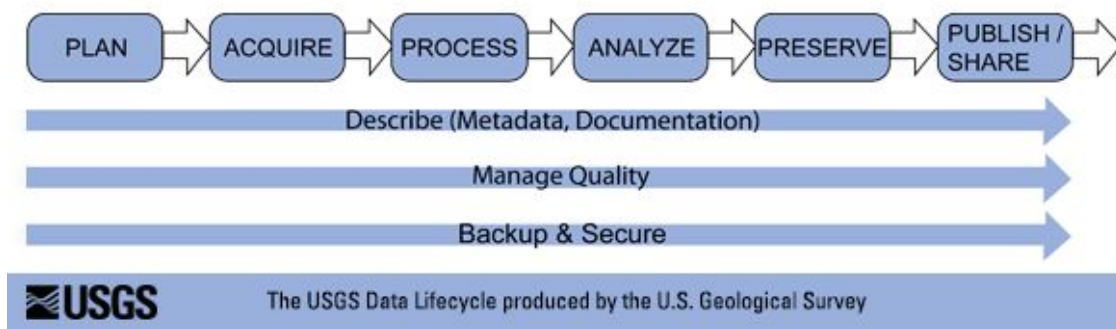

Propose
- Define question
- Design study
- Write data
- Management plan

Share / Preserve
- Deposit date
- Assign identifiers
- Preserve long-term

Collect Create
- **Collect**
- **Create**
- **Discover**
- **Clean up**

Data Life Cycle

Public
- **Report**
- **Publish findings**
- **Present result**

Analyze
- **Process**
- **Visualize**
- **Interpret data**

Describe
- **Document work**
- **Create Metadata**

Image: ITTStar

Data Life Cycle

Data Discovery

Re-Use

Data Archive

Deposit

Proposal Planning Writing

Project Start Up

Data Collection

Data Analysis

Data Sharing

End of Project

Re-Purpose

Data Life Cycle

Data Life Cycle

The USGS Data Lifecycle produced by the U.S. Geological Survey

Where Are Libraries Often Involved?

- **Data management plans**: assisting with writing plans and identifying resources for annotating, storing, and sharing research data
- **Records management**: naming conventions, file versioning, general good information practices
- **Metadata**: identifying discipline and general metadata standards
- **Retention and long-term planning**: interpreting funder requirements, identifying repositories, DOIs + discoverability
- **Other**: How to cite data, how to locate and purchase data sets, teaching students about data management, copyright and license info, citation/data impact

February 2017 B.C. (Before Christie)

- Faculty Senate: UVM Research Data Management Resolution
  - Researchers in all disciplines are faced with a range of data management needs...
  - Data management requires a long-term commitment to a storage environment...
  - Office of Science and Technology Policy (OSTP) has directed federal agencies to mandate that digitally formatted research data [...] should be stored and publicly accessible... (2013, earlier for individual agencies)
  - Most large federal funding agencies [...] now require data management plans...
  - Current practices at UVM [...] do not meet user needs...
  - An institutional commitment to providing technical expertise and support services is required...
- Supported the appointment of a joint Administration/Faculty Senate committee

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March 2017 B.C. (Before Christie)

- Administration approved the Faculty Senate resolution and appointed the **Ad Hoc Data Management Committee**, charged with:
  - Review a recent analysis of data management plans and data management practices on campus.
  - Conduct a thorough examination of data management plans in place in select peer and comparator institutions; identify common elements; broadly describe different approaches and their strengths and weaknesses.
  - Develop standard (and, where appropriate, agency specific) UVM data management plan language for use by faculty members in the submission of grant applications requiring DMP statements.

October 2017

Ad Hoc Data Management Committee submits report to the Provost, with the following recommendations:

1. Become a partner institution of the DMPTool
2. Create a research data support team led by reps from ETS, the Libraries, and Sponsored Programs, with faculty advisors from across the University
3. Assess further faculty data management needs in relation to DMPs and data storage, preservation, and sharing
4. Review current UVM policies related to research data and identify and fill any policy gaps

Fall 2017 - Spring 2018

While getting oriented to UVM and settling into my role, sought out meetings and conversations across campus:

- UVM Enterprise Technology Services (ETS)
- College of Medicine Technology Services
- Office of the Vice President of Research (OVPR)
- Research Administration & Integrity
- Sponsored Projects Administration (SPA)
- Research Protection Office (RPO)
- Office of Clinical Trials Research, College of Medicine
- UVM Foundation

March 2018

OVPR and the Provost respond to the committee's recommendations, and prioritized before hiring of a new CIO:

1. Educate faculty about research data management and better communicate existing institutional support, including that data management costs can be covered by grants (OVPR)
2. Library commissioned at the lead unit to assist UVM's investigators in developing research data management plans (CS)
3. Become a DMPTool partner institution (Library + later ETS)
4. Faculty survey about data management needs (Library)

March 2018 (cont.)

After the CIO's arrival:

1. Extend the work of the committee in a collaborative effort with the Library, OVPR, and faculty representatives to craft a UVM Data Management Policy and University Operating Procedures to cover all aspects of the data management pipeline
2. Concrete policy and procedures

Since March 2018

- DMPTool partner institution (admins = CS and Mike Austin of ETS)

- August: Invited and applied, but not accepted, for *APLU/AAU Workshop on Accelerating Public Access to Research Data*
  - Provost (David Rosowsky), VPR (Richard Galbraith), CIO (Simeon Ananou), and VP and General Counsel (Sharon Reich Paulsen) participated in this application

- Updated UVM's Data Management Guide (revised, added new UVM resources tab)

- Started reviewing my predecessor's surveys and articles about UVM needs, preparing to conduct another campus study (maybe IRDL)

Current Status

- Been in a bit of a holding pattern waiting for CIO's hire and settling in

- Upcoming meeting with Simeon Ananou, CIO: Thursday, November 15

- Upcoming meeting with Mike Austin, Director of Systems Administration, about promoting DMPTool and campus conversation: November 28

- IRDL Application due in January, lots of reading after the semester

- Hosting New England Research Data Management Roundtable in July 2019

Challenges

- **Administrative pace**: Aforementioned holding pattern
- **Broad and fuzzy definition of data**: People think anything "data" is relevant: storage, big data, statistical analysis…
- **Working top down**: Minimal requests on the ground, difficult to pinpoint specific, tangible needs
- **Scale and scope**: How assess an entire campus with so many disciplinary needs? Previous surveys are not generalizable
- **Learning curve**: Professional development on the fly

Thank You!

Questions? Comments?

Christie Silkotch
Science and Data Librarian
Howe Library, Room 122B
christie.silkotch@uvm.edu
(802) 656-8130

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3. **Faculty Awards.** Jim V. would like to discuss faculty awards, resources and faculty professional development opportunities at the December RSCA meeting.

4. **Burack Lecturers.** The committee went into executive session to discuss the Burack nominations. The committee will vote by e-mail. The committee would like to invite a guest to a future meeting to discuss the Burack process.

5. **New Business.** There was no new business at this time.

Adjourn at 2:00pm.

The next meeting of the RSCA is scheduled for Thursday, December 6, 2018 from 12:30 – 2:00 in 427a Waterman.