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RDM Solutions for Smaller Institutions

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University of Massachusetts Medical School

Et al.

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Welcome to the New England e-Science Seminar Series:

Research Data Management (RDM) at Smaller Institutions

This project is funded by the National Library of Medicine, National Institutes of Health, Department of Health and Human Services,
under Cooperative Agreement Number UG4LM012347

NATIONAL LIBRARY OF MEDICINE

Physical library is Bethesda, MD part of the NIH campus.

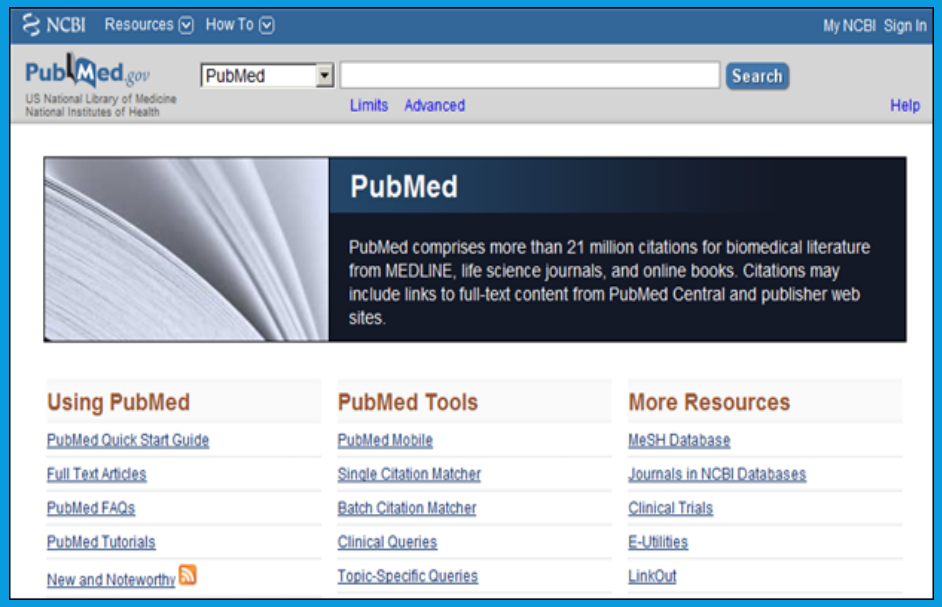
Largest biomedical library in the world

One of the federal government's largest providers of digital content

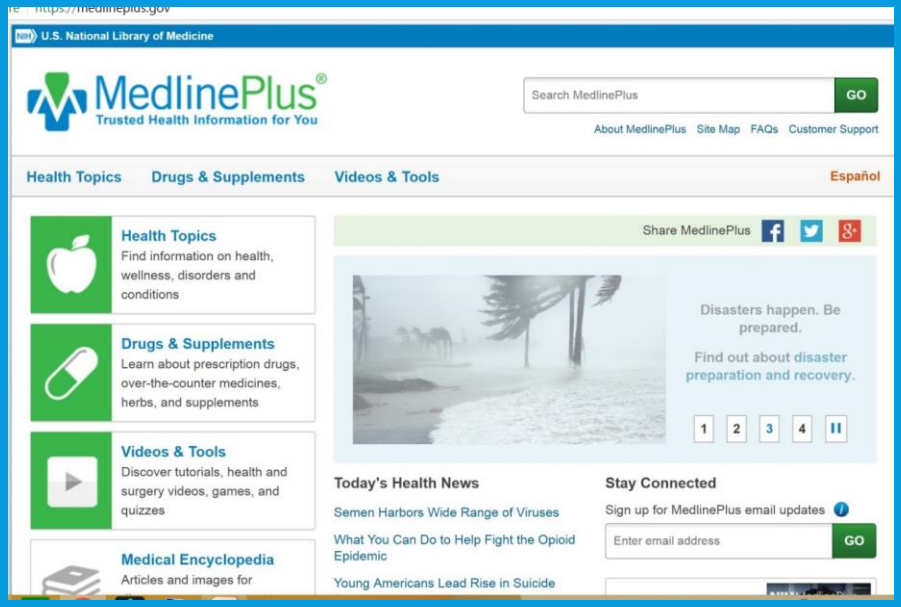
The library is open to everyone

- **NLMs mission**
- *Advance the progress of medicine and improve public health by making biomedical information and data accessible to everyone.*

NLM RESOURCES YOU KNOW…

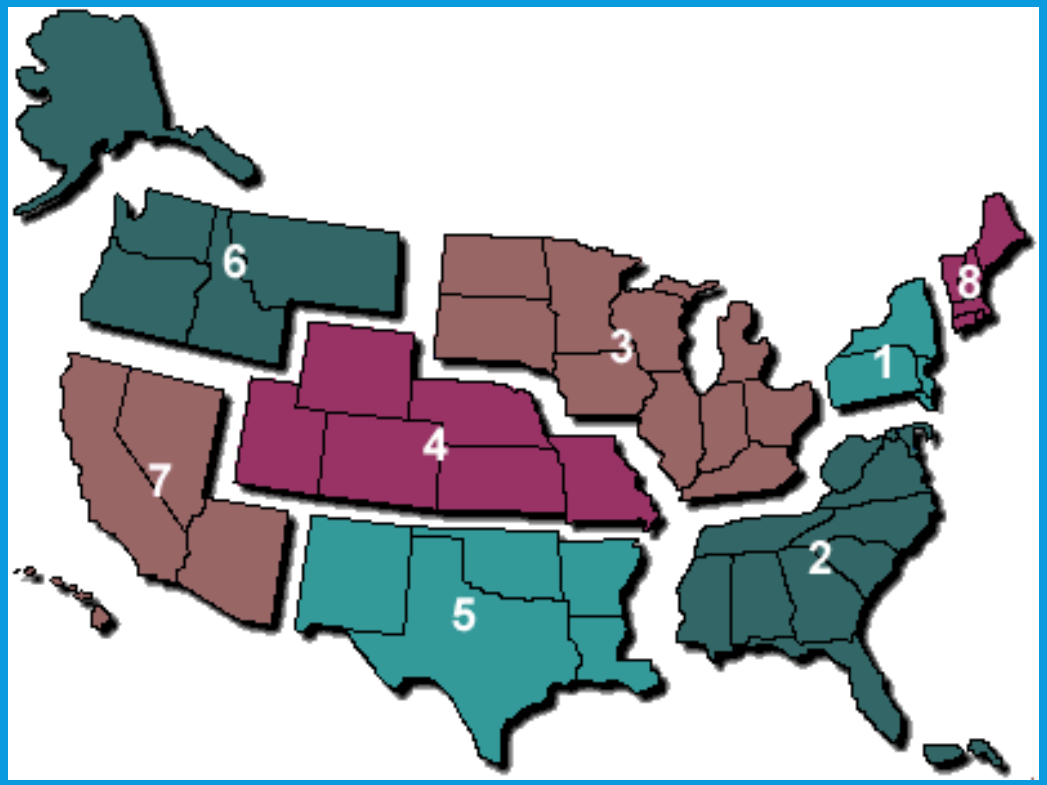


https://www.ncbi.nlm.nih.gov/pubmed/



https://medlineplus.gov/

NLM CARRIES OUT ITS MISSION THROUGH NATIONAL NETWORK OF LIBRARIES OF MEDICINE (NNLM)



Nationwide network of health sciences libraries, public libraries & information centers

Each region has a partnership with a regional medical library

Outreach provided through:

- Free access to online resources
- Training & PD
- Grant funding opportunities

FREE To Join the NNLM Network :
https://nnlm.gov/members/join-network

NNLM RD3: RESOURCES FOR DATA-DRIVEN DISCOVERY HTTPS://NNLM.GOV/DATA

- Data Thesaurus
- Subject primers on Managing data and sharing data
- RDM course materials
- Free Courses and Webinars
- Funding opportunities:

NATIONAL NETWORK OF LIBRARIES OF MEDICINE FUNDS PROJECTS HTTPS://NNLM.GOV/NER/FUNDING

Title	Amount/Application Deadline	Description	Funding Period/Status
All of Us Research Program Community Engagement	Up to $15,000	Support public libraries in outreach projects that involve information and education about the All of Us Research Program and health information literacy.	05/01/2019 to 04/30/2020 Open
All of Us Research Program Technology	Up to $10,000	Enhance technology access to and delivery of All of Us Research Program and health literacy information in public libraries.	05/01/2019 to 04/30/2020 Open
Technology	up to $7,000 04/05/2019 (All day)	Enhance technology access to and delivery of health information for Network Members, health professionals, and consumers.	05/01/2019 to 04/30/2020 Closed
Professional Development	up to $5,000 04/05/2019 (All day)	Support the development of instructional programs that improve the knowledge and skills of librarians and/or health information professionals.	05/01/2019 to 04/30/2020 Closed
Knowledge & Data Management	up to $10,000 04/05/2019 (All day)	Support projects that stimulate innovations in biomedical knowledge or data management and information or research services at the health care or research institution.	05/01/2019 to 04/30/2020 Closed
Community Engagement	up to $10,000 04/05/2019 (All day)	Support short-term outreach projects that involve advancing health information resources in collaboration with local community groups.	05/01/2019 to 04/30/2020 Closed

RYAN CLEMENT

DATA SERVICES LIBRARIAN

WENDY SHOOK

SCIENCE DATA LIBRARIAN

RDM for Smaller Institutions

Ryan Clement
Wendy Shook
Middlebury College
July 11, 2019

HELLO

RYAN CLEMENT

Data Services Librarian, Middlebury College
@rkclement

HELLO

Wendy Shook

Science Data Librarian, Middlebury College

What we're talking about today

1. Challenges and opportunities for RDM at smaller institutions
2. Review of the NW5C Research Data Management & Curation Workshop
3. Current practices and future plans at Middlebury

1

Challenges & Opportunities

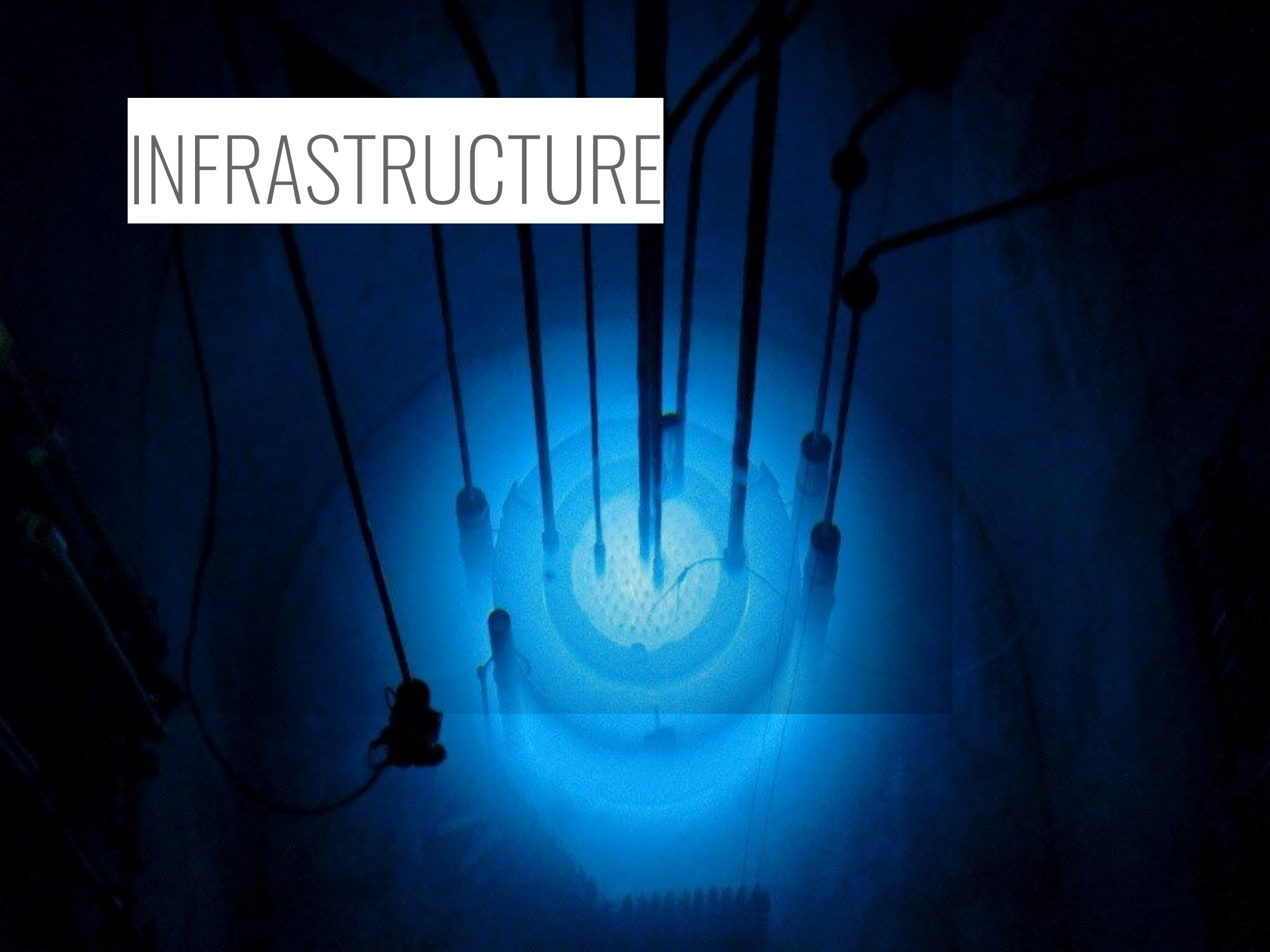
For RDM in liberal arts colleges

CHALLENGES

for data management & curation at liberal arts colleges

FOCUS

INFRASTRUCTURE



ADJUSTMENT

Thesis Desk
BLAIRE
KATHRYN
Uncertain Terms
HOLDING WORLDS TOGETHER
CONCEIVING THE NEW WORLD ORDER
Writing at the Margin
Consuming Motherhood
AGAINST LITERATURE
JANE AUSTEN
STRUCTURAL ANALYSIS OF ORAL TRADITION
WHAT IS CULTURAL STUDIES?
THE CULTURAL STUDIES READER
BEYOND GENRE
INTERPRETATION
A Handbook of Critical Approaches to Literature
Reading from the Heart
Lovers and Beloveds
PRIMAL MYTHS
Romance Fiction
Women and Romance: A Rea
KNOWLEDGE, POWER & PRACTICE
PLANTATION SOCIETIES IN THE ERA OF EUROPEAN EXPANSION
REPRODUCTION & SUCCESSION
PATRONAGE AND EXPLOITATION
DIMENSIONS OF SOCIAL CHANGE IN INDIA
VIOLENCE and Subjectivity
STATES OF IMAGINATION
Imperial Encounters
NATION AND RELIGION
TEXTUAL ESCAPADES
Romance Writing
PLOTS AND PROPOSALS
EROTICS TALK
Love, Friendship, & the Self
FAIRY TALES
Hindu Wife, Hindu Nation

OPPORTUNITIES

for data management & curation at liberal arts colleges

FOCUS

TRAINING

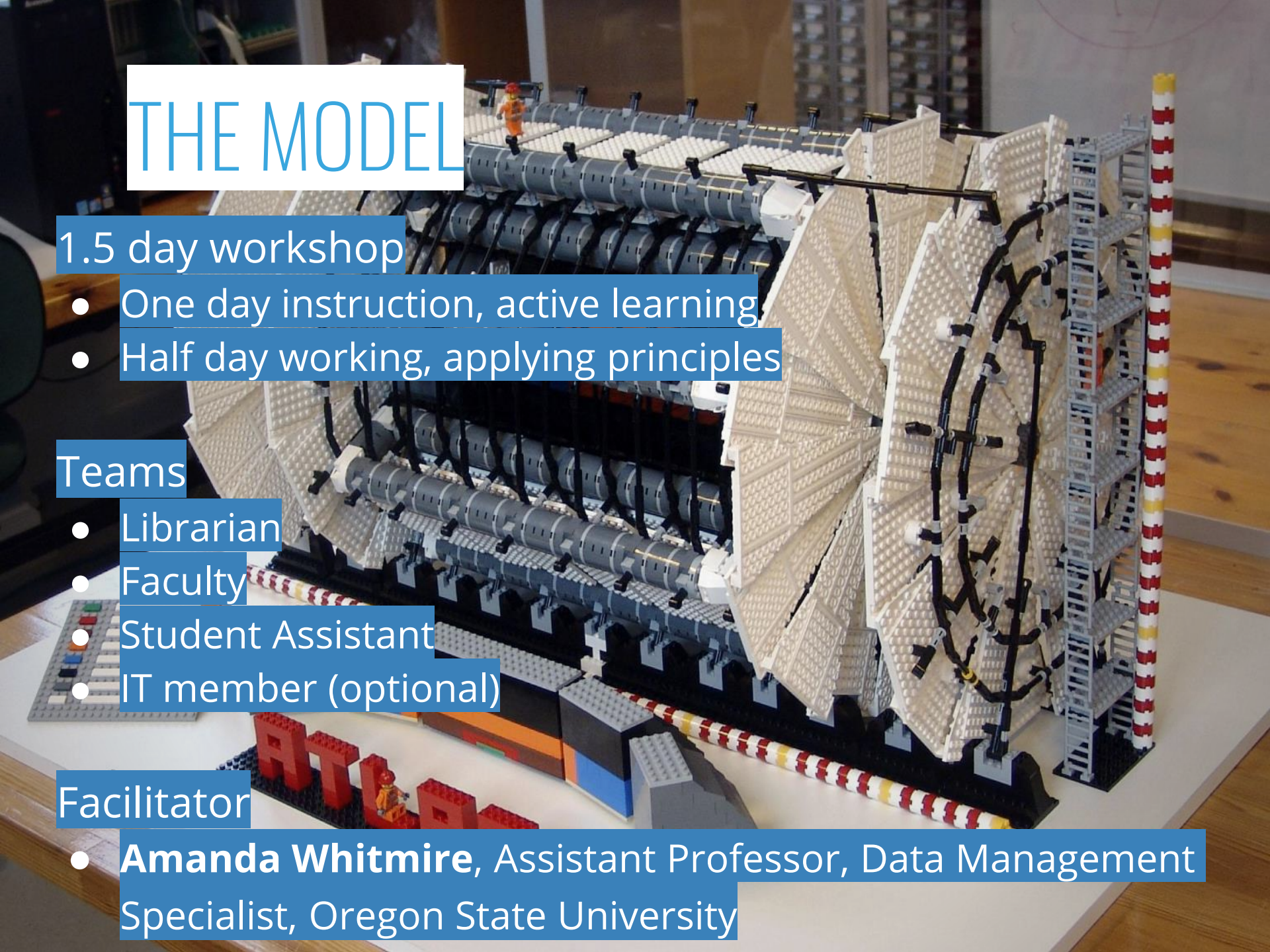
RELATIONSHIPS

The workshop

Planning and structure

2

THE MODEL



1.5 day workshop

- One day instruction, active learning
- Half day working, applying principles

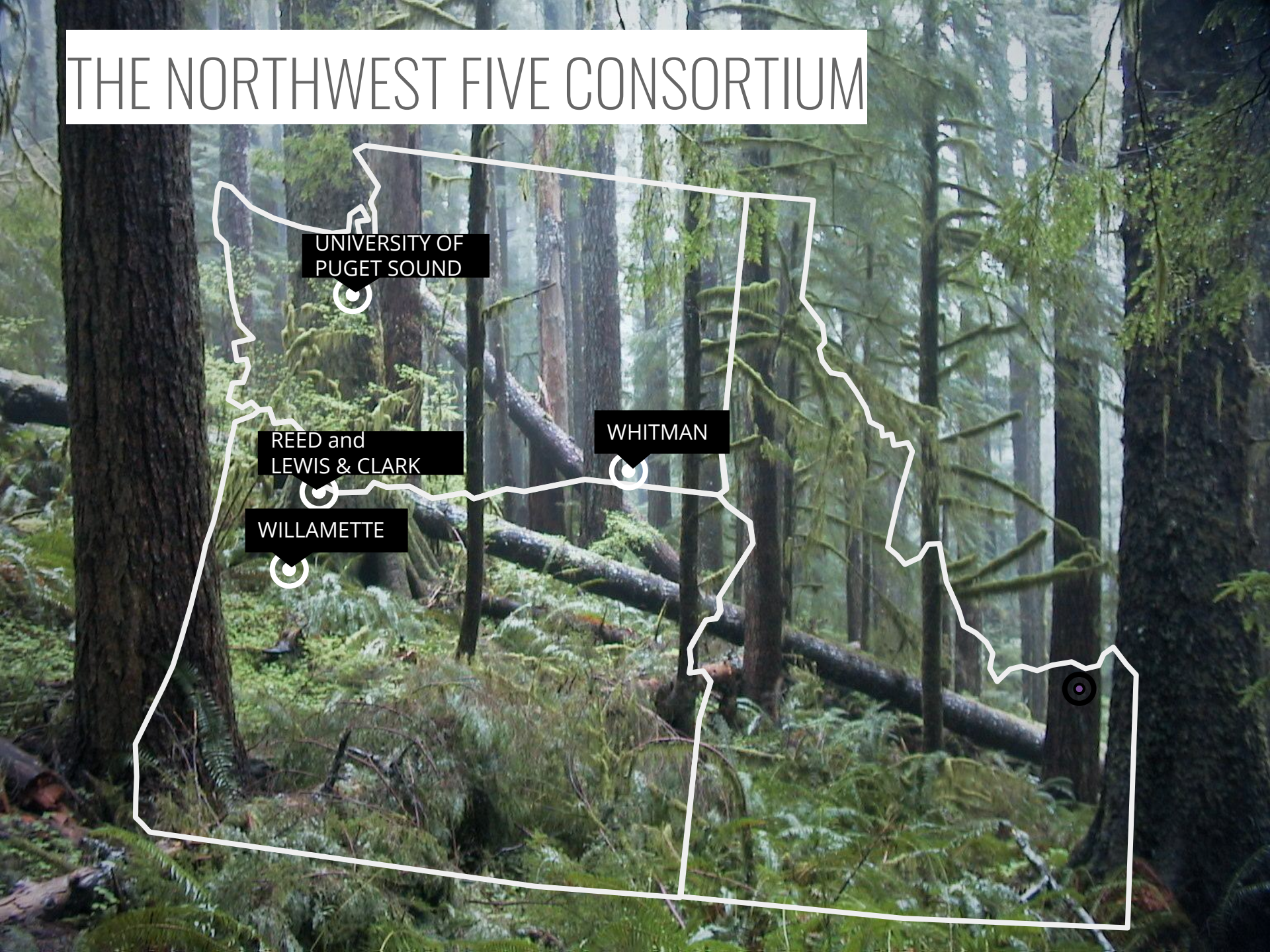
Teams

- Librarian
- Faculty
- Student Assistant
- IT member (optional)

Facilitator

- **Amanda Whitmire**, Assistant Professor, Data Management Specialist, Oregon State University

THE NORTHWEST FIVE CONSORTIUM



THE PLANNERS

- ➔ Parvaneh Abbaspour, Science & Data Services Librarian, L&C
- ➔ Amy Blau, Instructional & Data Services Librarian, Whitman
- ➔ Ryan Clement, Data Services Librarian, Middlebury College

- ➔ Eli Gandour-Rood, Science Librarian, University of Puget Sound
- ➔ Gary Klein, Business Librarian, Willamette
- ➔ Michael Spalti, AUL for Library Systems, Willamette

Co-PIs

- ➔ **Mark Dahl, Director of the Aubrey R. Watzek Library at L&C**
- ➔ **Dena Hutto, College Librarian, Reed College**

7 STUDENTS

6 LIBRARIANS

6 FACULTY

1 IT STAFF

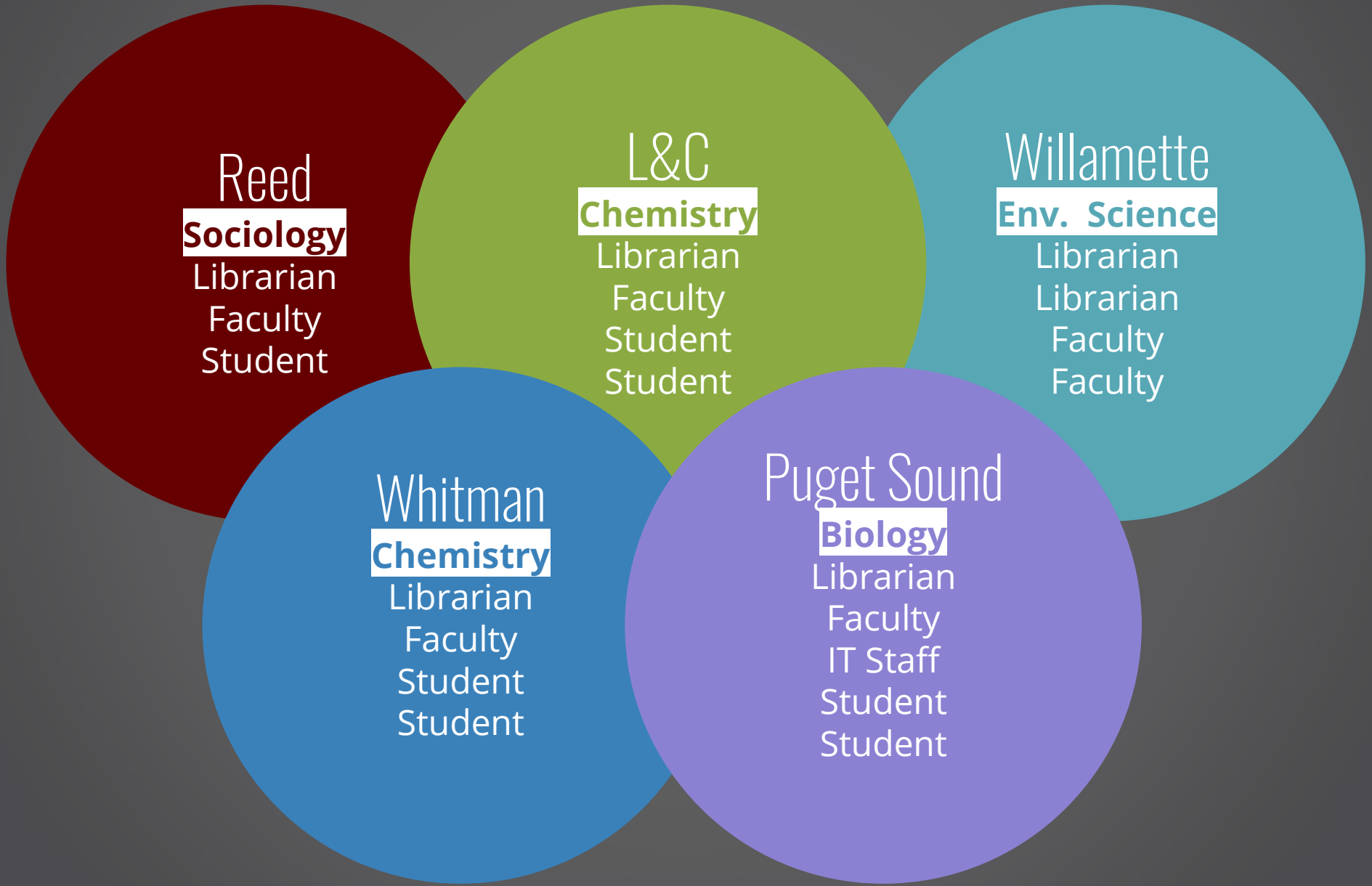
BIOLOGY

ENVIRONMENTAL STUDIES

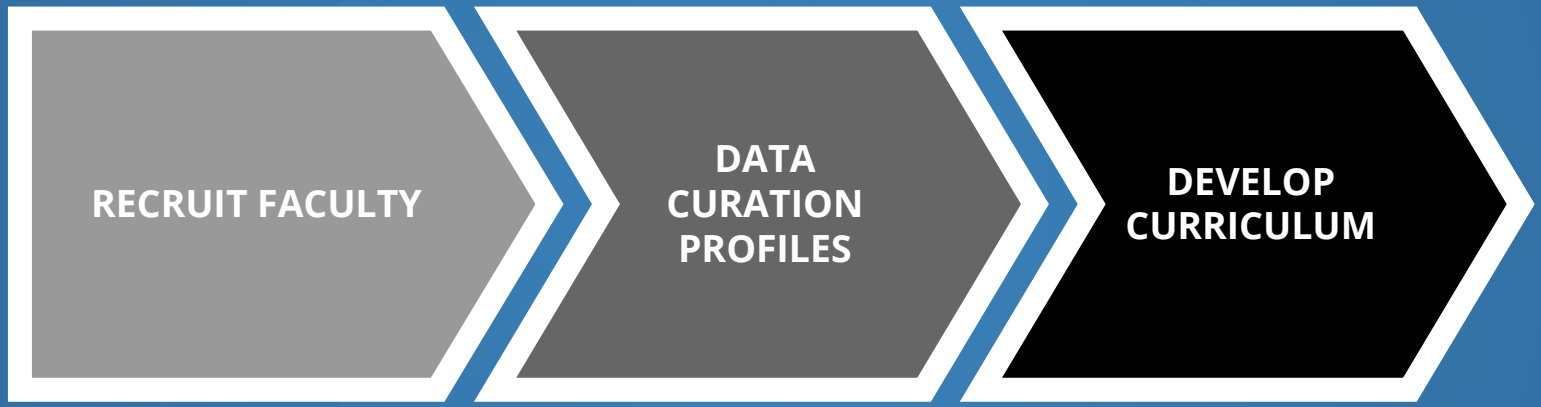
SOCIOLOGY

CHEMISTRY (X 2)

TEAM RECRUITMENT



CURRICULUM PLANNING



For more information on Data Curation Profiles:
datacurationprofiles.org

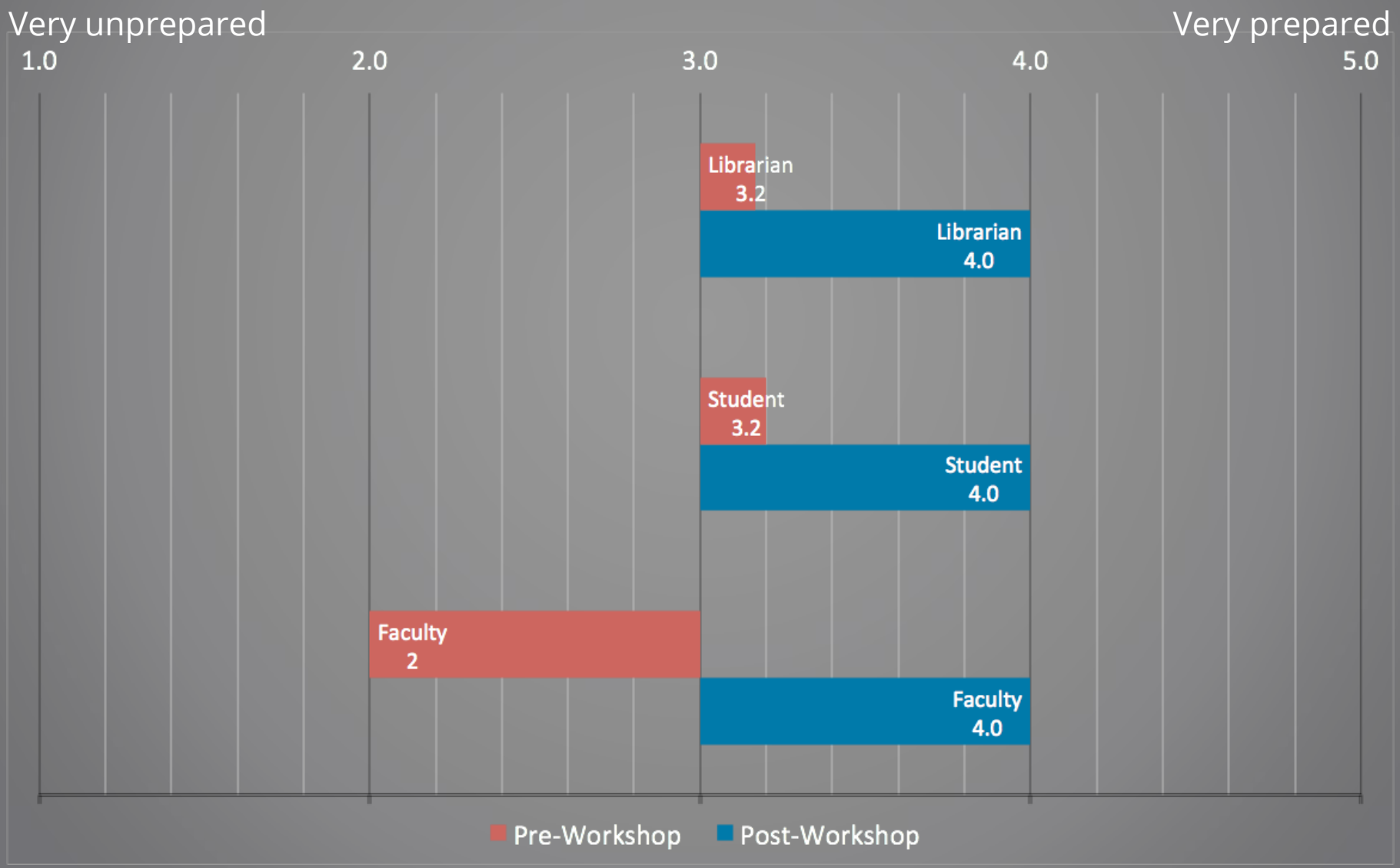
THE SCHEDULE: DAY ONE

Overview of RDM landscape	Definition, types, & formats
Best Practices: RDM basics	Organization, naming, & version control
Best Practices: Backup & Storage	Storage, backup, security, & access control
Metadata	Types, disciplinary standards, readme files
Data Sharing	Obstacles, solutions, & value
Data Archiving & Long-term Storage	Long-term preservation, sustainability, archival basics

DAY TWO: WORKING & DISCUSSING

- Faculty and students worked together to design and document new protocols, etc.
- Librarians had a breakout session:
  - How to generalize content from workshop to broader campus
  - How to reach out to students, faculty, and staff on campus
  - Building a data services program (beyond just RDMC)
  - How we can work together and share (building a Community of Practice)

How prepared do you feel to find and apply discipline-appropriate data management approaches/principles to your research project?



- Yes, it seemed like a very good balance between group discussion, learning in a more lecture format, and opportunities to work in our small teams. I was interested to hear more specifically about some of the challenges the other teams were facing.

- Working in teams was KEY.

- Faculty members

- A succinct understanding of the major issues of the RDM lifecycle… A better understanding of what is taking place at my peer institutions.

- Networking and sharing situations.

- Librarians

Key Workshop Successes

1. Teams of librarians, faculty and student researchers (and IT)
2. Contextualized training in data management for undergraduates
3. Cross-institutional discussion of data management challenges
4. Creation of a community of practice for library data services

Key Workshop Challenges

1. Recruitment of teams (timing, recognition, focus)
2. Facilitating (multiple institutions, some with experience and some without)
3. $$$
4. In-person vs. virtual?

RDM @ Middlebury now

And into the future...

3

Current Efforts

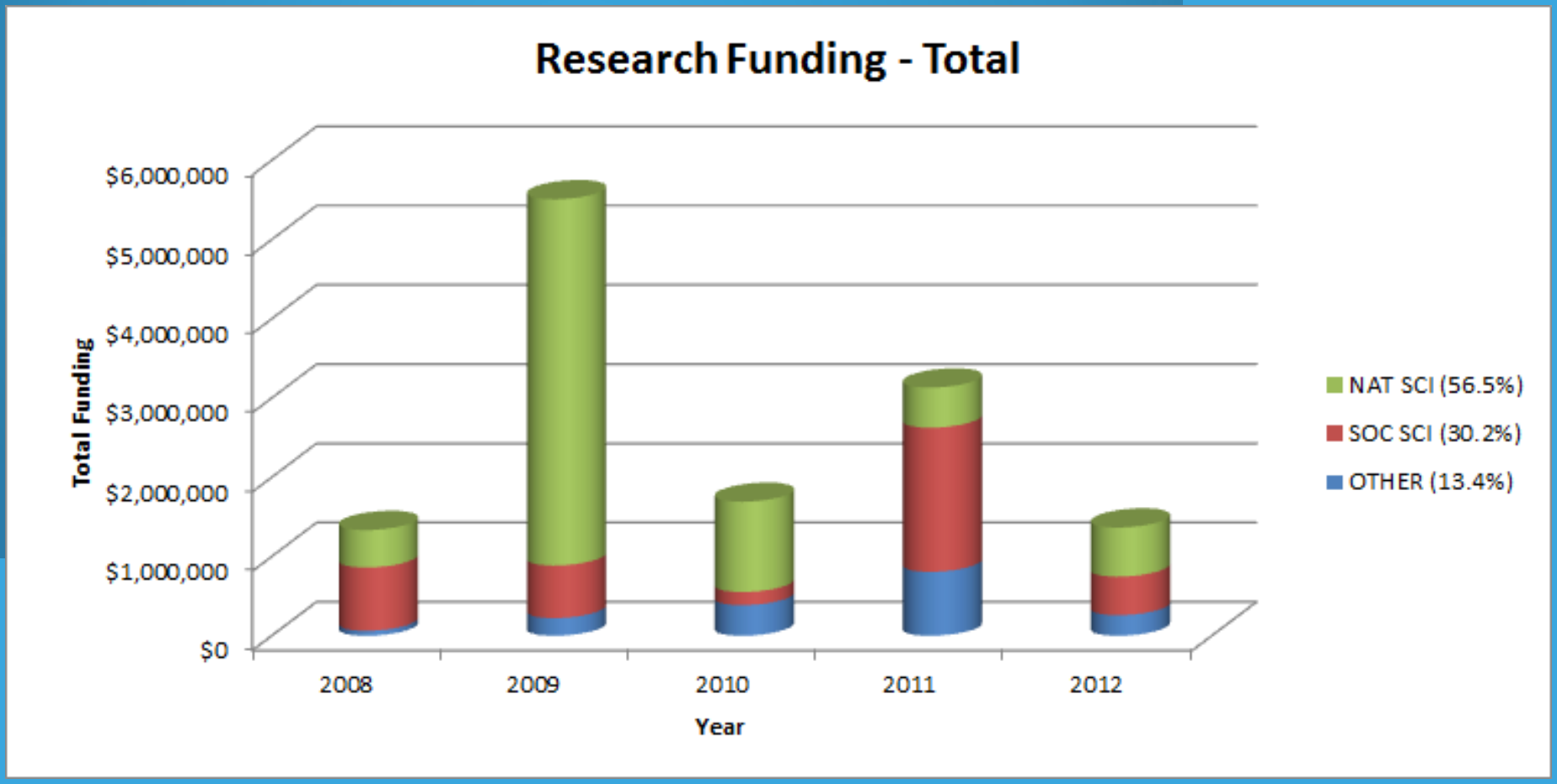
- Consultations
- Collaborations
- Committees

Data Management Planning

Using size and scale to our advantage:

- leverage our small scale to build relationships
- take advantage of large scale resources to scaffold best practices

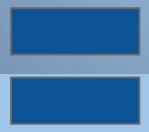
Data Management Planning



Archiving and Preservation

Support the collaborations built through the DMP process.

Leverage the collaborations that Institutional Repository.



Data at Middlebury

D@M

'dä-təm

Looking Forward

- Data Management projects with individual labs/researchers
- Data Science Initiatives
- Outreach to disciplines outside of the science and social sciences.

THANKS