



University of
New Hampshire

Public Access to Research Data: the UNH story

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Vice Provost for Research



From a friend:

“Personally, I think more public access to research data would be a great thing. There have been times that getting research info for projects at work has been a frustrating and/or limited process.”

“Private-sector industry also needs access to research data. Facilitating this access could promote the work of researchers and potentially lead to greater support and mutually beneficial collaborative endeavors.

Maybe that’s carrying it too far.

But anyway, it’s been a real thing for me.”



Overview

- Why did we get involved? (land grant, my own conviction, crisis of integrity)
- Where did we start? (UNH policy)
- What did we get from workshop?
- What is our approach and trajectory now?
- What are our pain points, obstacles?



University of
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RESEARCH ON THE EDGE



69.4713°N | 171.6903°W
CHUKCHI SEA, ARCTIC OCEAN

OUR RESEARCH PUTS US ON TOP OF THE WORLD

What's happening in the Arctic isn't staying in the Arctic. Because the rapid warming at the top of the globe has powerful implications for the rest of the world, more than 50 UNH researchers are responding to these changes and helping us understand their impact on our lives. We're mapping the seafloor, coring into ice, listening for methane, launching rockets into the aurora and working with Arctic communities in a collaborative effort to solve some of this fragile region's most pressing issues — ones that transcend disciplinary and political borders.

Welcome to the edge of possible at the University of New Hampshire, designated R1 for research productivity by the Carnegie Classification. Here, intellectual curiosity is rewarded with challenging academic programs and exciting research opportunities around the world.



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RESEARCH ON THE EDGE



10°19'S | 100°58'E
SUNDA TRENCH

NO ONE DIVES DEEPER TO UNDERSTAND OUR WORLD.

Less than nine percent of the seafloor has been mapped to precision, but UNH's internationally recognized Center for Coastal and Ocean Mapping is out to change that. We're at the forefront of an international initiative to map the entire seafloor by 2030. Deploying sophisticated multibeam sonar from research ships and advancing autonomous technology to dramatically reduce the time and cost of seafloor mapping, our researchers are driven by the thrill of discovery.

Welcome to the edge of possible: where intellectual curiosity is rewarded with exciting research opportunities and challenging academic programs. Whether mapping the Arctic seafloor or training the next generation of global hydrographers, we exist to help our students create possibilities for our world.

unh.edu/edge



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Public access to research data workshop

- Team:
 - Research Data Services librarian
 - Central IT security (Information Security Compliance Program Manager)
 - Research Computing Center (core facility)
 - Vice Provost for Research
- Committee formed as an outcome of fall 2018 workshop (had a home in Damask).



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UNH Data Management Steering Committee: Damask

(Damask: a rich, firm, woven, patterned, reversible fabric)

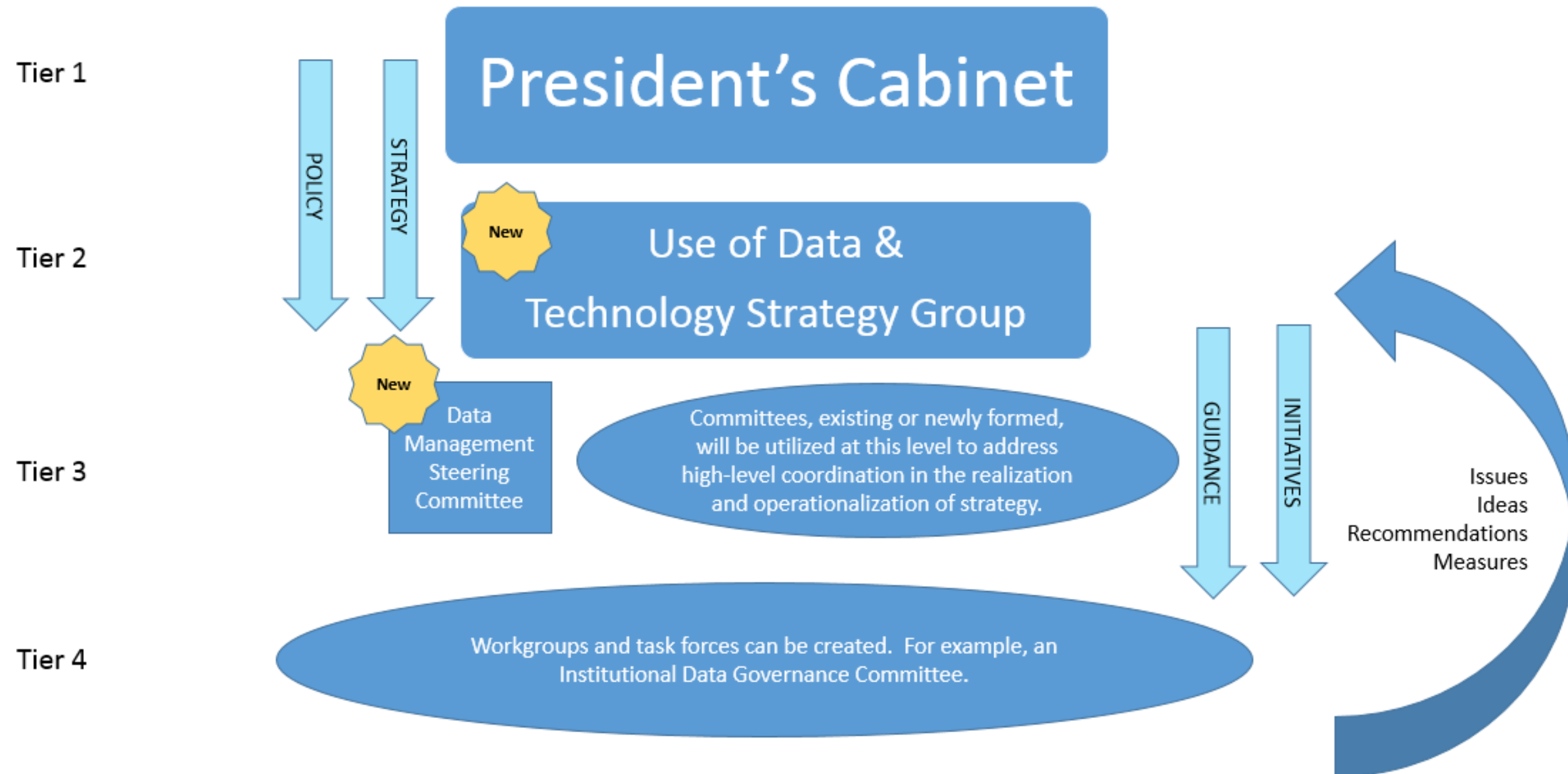
Mission:

- The University of New Hampshire Data Management Steering Committee is responsible for providing institutional leadership, strategic planning, policy and procedure development and oversight, as well coordination and collaboration across all UNH campuses regarding the effective use of data to support the University's culture, values, mission and stated goals.

Vision:

- A future state where collaboration and coordination of resources of multiple stakeholders across campus adequately address the data management and data stewardship needs of the UNH community, and form a robust, responsible, and sustainable data service infrastructure on campus.

DAMASK Organizational Structure


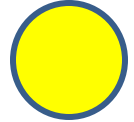


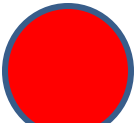






Specific workgroups of Damask:

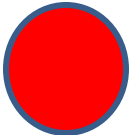
- Regulated Data (CUI strategy/approach)
- Data management coordination and communication (strategic funds for shared data storage).
- Enrollment management data governance (availability, usability, integrity and security of institutional data).
- **Public access to research data.**

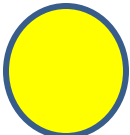
Roadmap from workshop

Task No.	Description	Lead	Status
1	Ensure PIs are complying with Data Management Plans (DMPs) and sponsor public access requirements. Establish a process to ensure compliance. Capture DMPs that get submitted electronically with proposals.	Kevin	
2	Define university policy/guidance for considering retention/reusability/appraisal criteria for research data.	Patti	
3	Establish the ability to mint Digital Object Identifiers (DOIs) through the UNH library	Patti	
4	Develop guidance on data workflow for PIs. Get workflow integrated into DMPs.	Terry	
5	Identify long term storage solutions for unpublished data (which doesn't have same public access requirement currently from federal agencies).		
6	Identify procedures for preservation, public access, and repository solutions.	Patti	
7	Deploy active storage repository , connect to larger workflow from 4.	Terry	

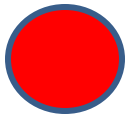
Roadmap (continued)

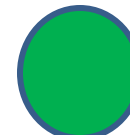
Identify policies, practices and procedures to ensure **data integrity**:

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- a. Define requirements for integrity controls on public access data.
 - b. Ensure suitable security controls exist for all storage environments
 - c. Develop standards/processes to vet [security/copywrite] external repositories to ensure compliance synergies with UNH and funding agencies.
 - d. Identify processes for data integrity QA/QC at each workflow stage and during transfer to repositories. Provide guidance for researchers on QA/QC methodologies.
- Rori 

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- Develop processes for **training UNH researchers** (faculty, staff and students) in emerging principles of data management i.e. data is a valued university asset.
- Patti/Terry 

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- Ensure that UNH data, which has been publicly archived/published/ shared by our researchers, is **recorded in the Data Catalog** in the Scholars' Repository.
- Patti 

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- Ensure shared **data citations** are visible and accessible on faculty [profiles](#), and that faculty receive **credit** during Promotion and Tenure (P&T) processes.
- Kevin 

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- Coordinate with other DMSC Working Groups, in particular the Data Coordination and Communication Committee, for **establishing a communication plan**.
- all 



Current State

- Committed and engaged collaboration: IT, Library, Research Office, and researcher ‘champions’.
- roadmap for data services (issued first DOIs in May)
- working toward guidance and workflows that have been vetted across units.
- building a communication web that connects the support services (but not through any org chart!).



Current challenges

- Characterizing the value of data; including in P&T.
- Culture change (in some areas); keeping up with researcher champions in other areas.
- Resources
 - No one unit has responsibility for this
 - People
 - Infrastructure



Current challenges

- Appraising data for long-term retention
- What does 'open' mean on our campus (open science, open access)?
- Encouraging/changing culture of data citation
- Promoting data management best practices as a tenet of the responsible conduct of research.
- Moving from public access as any kind of sharing of data to public access as the long-term preservation and access of data.



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Workshop was huge success for
UNH!

Thank you!

Kevin Gardner

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