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# Data Management Services at Boise State University 2016

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# Data Management Services

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BOISE STATE UNIVERSITY

## WHAT IS DATA MANAGEMENT?

### Plan

- Create a Data Management Plan (DMP)
- Apply for data protocols (IRB, IACUC, IBC)
- Estimate computing resource needs

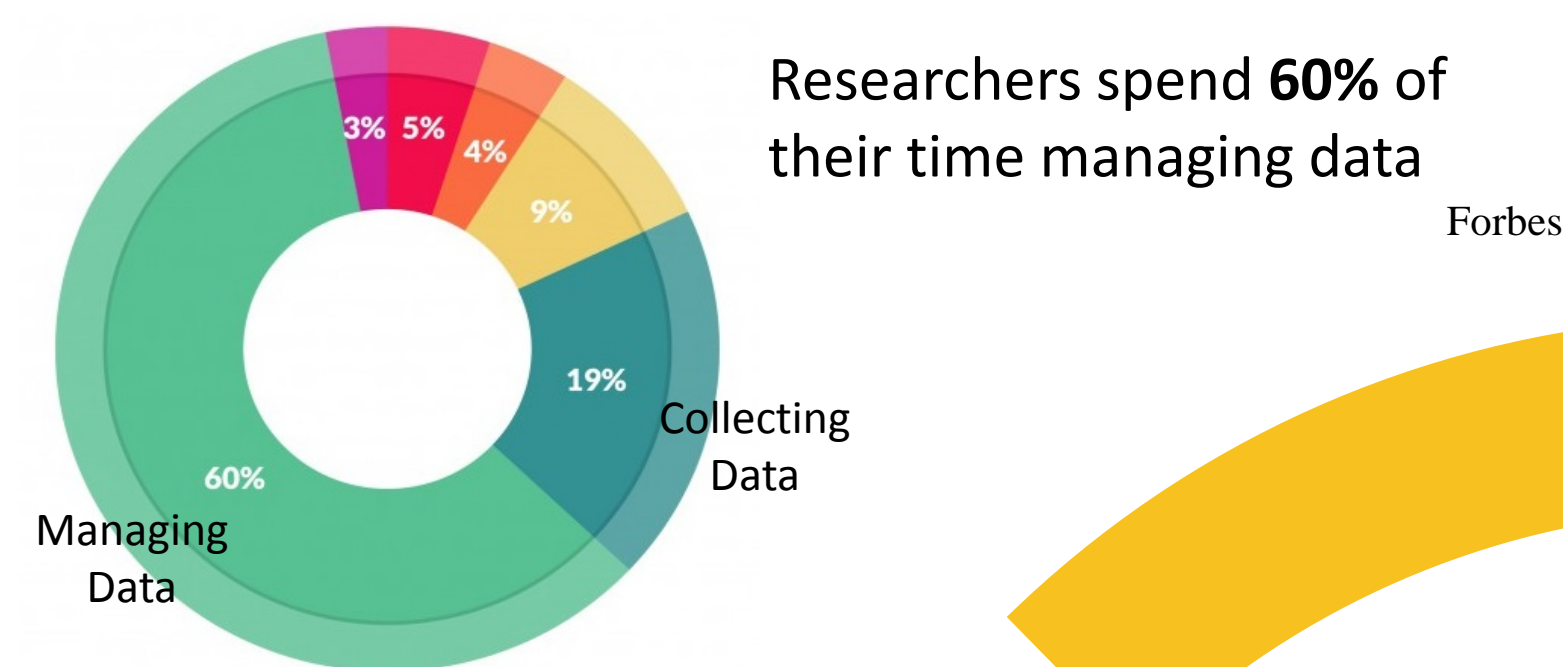
### Produce

- Collect, derive, analyze, model
- Maintain detailed metadata—Who/What/Why/Where/When/How
- Protect data from loss and unauthorized access

### Publish

- Finalize metadata
- Cleanse data to meet ethical requirements
- Submit to repository
- Update bibliography

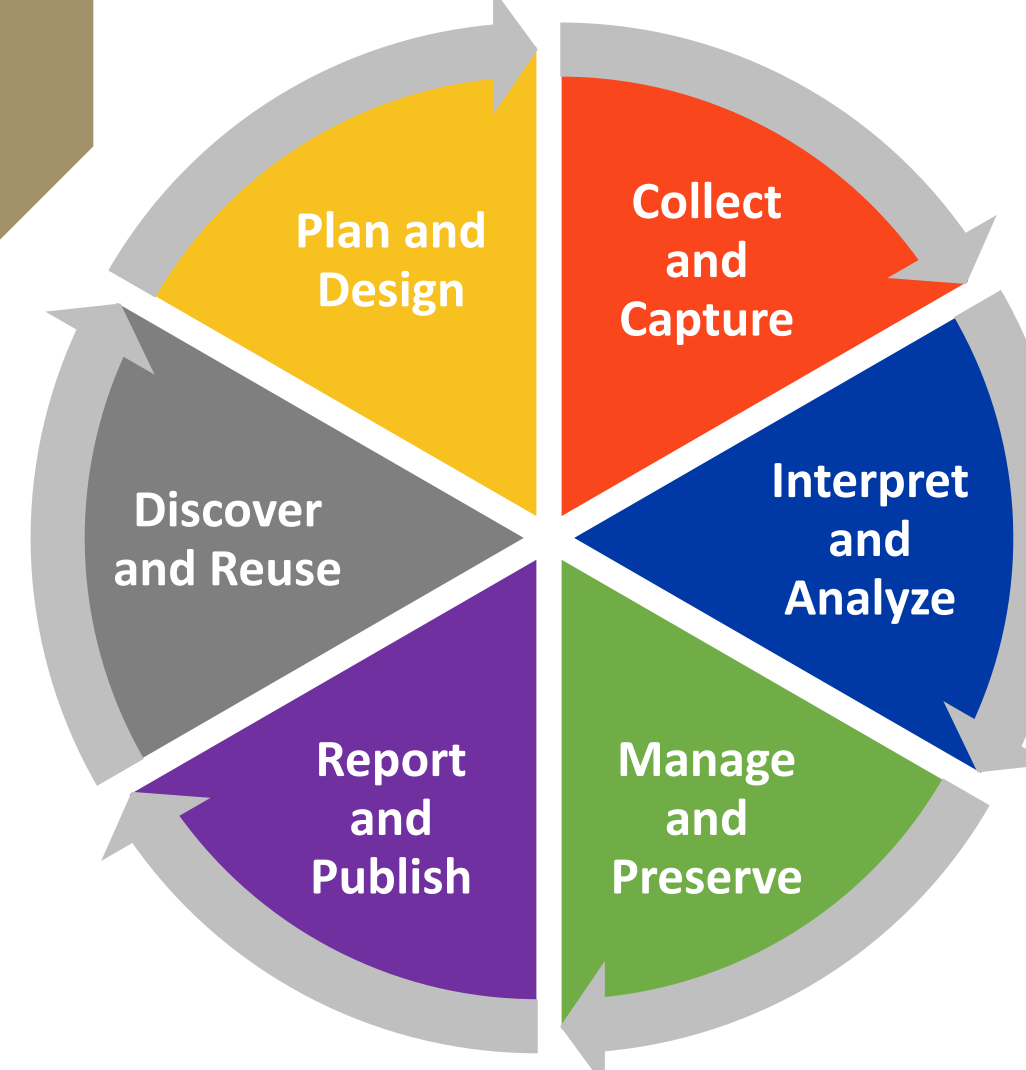
**DATA MANAGEMENT** is the development and execution of plans, policies, practices and procedures that properly manage the lifecycle of research data.



Proposal

Project

Post-Grant



KPMG predicts that by 2020 there will be **35 zettabytes** (ZB=10<sup>21</sup> bytes) of data in existence.



## WHY IS IT IMPORTANT?

### Funding

- Agencies require data management plans
- Publishers require data sharing



### Ethics

- Transparency
- Reproducibility
- Accountability



### Advancement

- Get recognition
- Promote collaboration and interdisciplinary research
- Inspire new scholarship



### Planning Support

- Data management plan (DMP) assistance
- Technical consulting services
- Proposal and grant support



### Computing Resources

- Virtual servers and free virtual storage (>500 GB)
- High Performance Computing (HPC)
- Networking and data transfer
- Programming support for research faculty
- Big Data solutions



### Data Publishing & Curation Services

- Metadata review and validation
- DOI (digital object identifier) minting
- ScholarWorks permanent repository storage
- Readership reports
- Embargo



### ScholarWorks Readership Report

- Number of downloads
- Institution
- Country



Heath Lab and Raptor Research



Thank You to Our First-Year Contributors!

### Help Us Be Timely

- Involve us early in the project cycle
- Keep us in the loop throughout the project

### Help Us Be Effective

- Join the growing list of data contributors
- Your feedback is welcome and very important to us
- Identify problems and suggest solutions
- Tell us about new services you need
- Educate us about data management challenges in your discipline

### Help Us Plan for the Future

- Here are some of our ideas. What are yours?
- Identify and integrate campus-wide data management processes
- Publish best practices guidelines for file and attribute names
- Host data management workshops
- Build on-line tutorials

LET US HELP YOU

PLEASE HELP US



MILES



Managing Idaho's Landscapes for Ecosystem Services

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