Data Management Services
BOISE STATE UNIVERSITY

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WHAT IS DATA MANAGEMENT?

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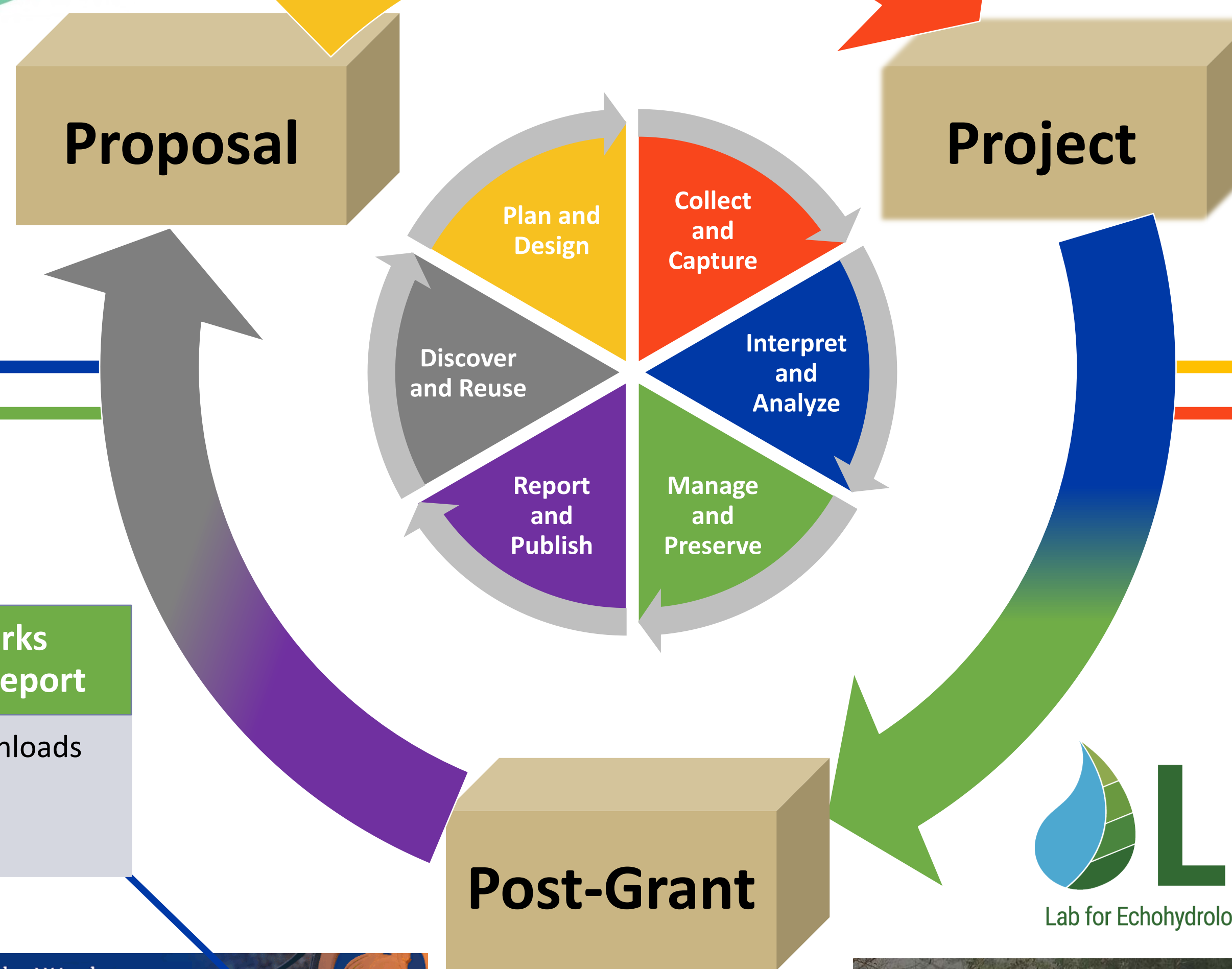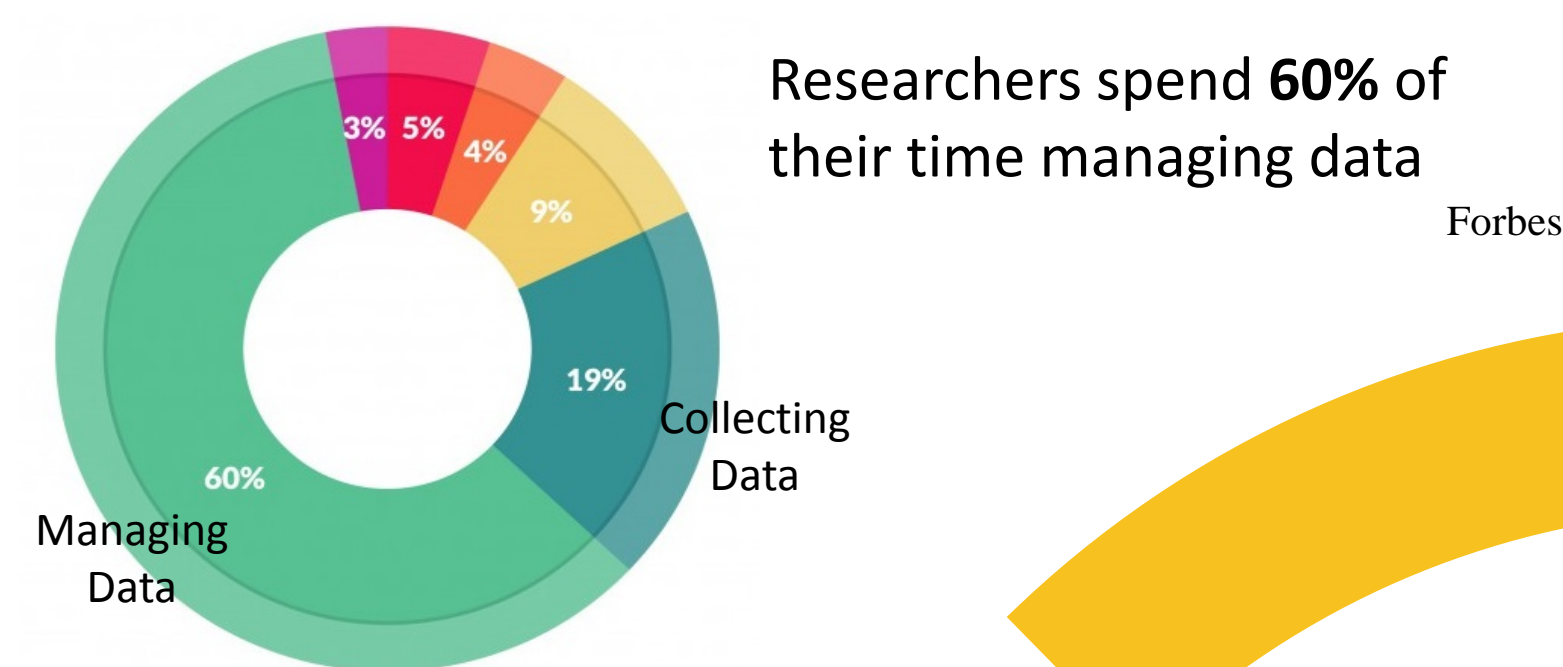- Estimate computing resource needs

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.

Researchers spend **60%** of their time managing data
Forbes

3% 5% 4%
9%
19% Collecting Data
60% Managing Data

Proposal

Plan and Design
Collect and Capture
Interpret and Analyze
Manage and Preserve
Report and Publish
Discover and Reuse

Project

Post-Grant

WHY IS IT IMPORTANT?

KPMG predicts that by 2020 there will be **35 zettabytes** (ZB=10^{21} bytes) of data in existence.

Funding
- Agencies require data management plans
- Publishers require data sharing

Ethics
- Transparency
- Reproducibility
- Accountability

Ethics

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

LET US HELP YOU

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

DMPTool
Build your Data Management Plan

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

RESEARCH COMPUTING
Advancing research at Boise State through innovative technical partnerships and grant development to support a robust cyberinfrastructure.

Data Publishing & Curation Services
- Metadata review and validation
- DOI (digital object identifier) minting
- ScholarWorks permanent repository storage
- Readership reports
- Embargo

doi®

ScholarWorks Readership Report
- Number of downloads
- Institution
- Country

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PLEASE HELP US

Heath Lab and Raptor Research

LEAF
Lab for Echohydrology and Alternative Futuring

Barber Sensory Ecology Lab
Boise State University

BOISE CENTER AEROSPACE LABORATORY

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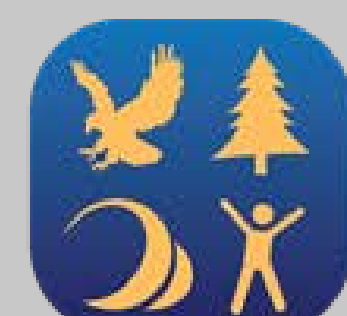
Help Us Plan for the Future
- Here are some of our ideas. What are yours?
- Identify and integrate campus-wide data management processes
- Publish best practices guidelines for file and attribute names
- Host data management workshops
- Build on-line tutorials

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