Research Support Throughout the Research Lifecycle

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Outline

• Context
• The Research and Data Lifecycles
• Support Opportunities Throughout the Lifecycle
  • Proposal Planning and Development – Pre-award
  • Project Initiation – Post-award
  • Ongoing Project Support – Post-award
  • Project Closeout – Post-award
Context

Data Management Plans required by funding agencies
Publications requiring links to supporting data
Increasing collaborative research where data must be shared
The Research & Data Lifecycles
Research Lifecycle

1. Ideas
2. Proposal Writing
3. Research Process
4. Partners
5. Publication

JISC -
Research Lifecycle

Idea
Partners
Publication
Research Process
Proposal Writing
Share Data
Research Process
Analyze Data
Manage Data
Simulate, Experiment, observe

Research Lifecycle

- Ideas
- Partners
- Publication
- Proposal Writing
- Share Data
- Manage Data
- Analyze Data
- Simulate, Experiment, observe

Research Process:

- Research Process
- Data Lifecycle


Data Lifecycle:

- Conceptualise
- Consume or receive
- Describe
- Transform
- Curate
- Preserve
- Reuse
- Perform
- Source
- Store
- Preserve action
- Invest
- Generate

DCC - http://www.dcc.ac.uk/resources/curation-lifecycle-model

Research Support Throughout the Research & Data Lifecycles
Research Support Throughout the Research & Data Lifecycles

Research & Data Lifecycles

Pre-award

Post-award
Support Opportunities Throughout the Lifecycle
Pre-award

• Project Development & Planning

- Project Concept & Plan
- Coordinate with Resource Providers
- Data Management Plan (DMP)
- Budget Reflecting DMP Requirements
- Broader Impacts & Previous Research Products
Post-award

• Project Initiation

- Review Data Management Plan
- Coordinate with Resource Providers
- Set up Data Management, Sharing & Preservation Process and Infrastructure
- Schedule Periodic Reviews Aligned with Reporting Cycles
Post-award

• Ongoing Project Support

- Track Progress Towards DMP at Regular Intervals
- Document Data Products in Preservation & Sharing Systems
- Integrate Data Products into Periodic Reports
Post-award

• Project Closeout

Finalize Inventory of Project Data Products

Add All Data Products to Preservation System, Appropriate Data into Sharing System

Add Publicly Available and Embargoed Data Inventory to Final Reports
Key Resources

• Research Data Services – University Libraries
  rds@unm.edu | kbene@unm.edu | jwheel01@unm.edu
  https://libguides.unm.edu/data

• UNM Digital Repository
  https://digitalrepository.unm.edu

• Dryad Data Repository (coming soon)
  https://datadryad.org

• UNM Center for Advanced Research Computing
  http://carc.unm.edu