

Data Management, Sharing, & Preservation Services

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The Art & Science of Data: From Numbers to Narratives January 15, 2020



Outline

- Context
- The Research and Data Lifecycles
- Data Sharing & Demonstrating Impact
 - File sharing strategies & resources
 - Data publication & preservation

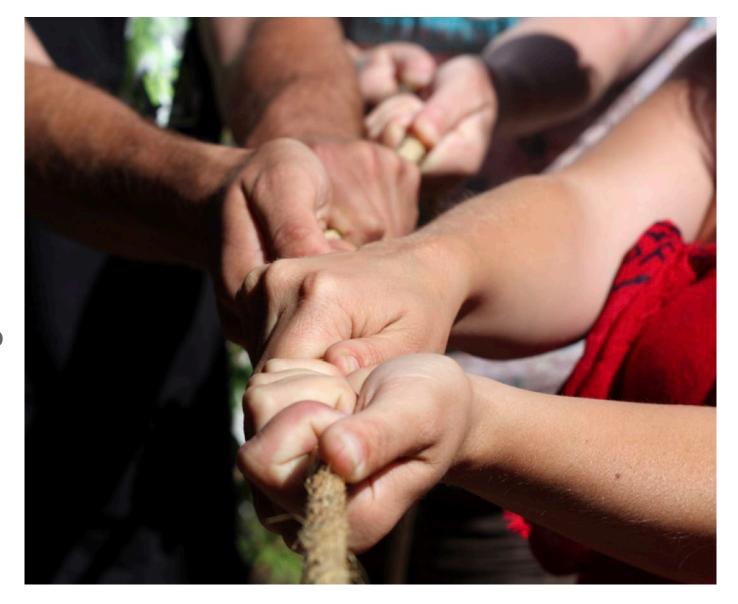
Context

Increased Project Efficiency

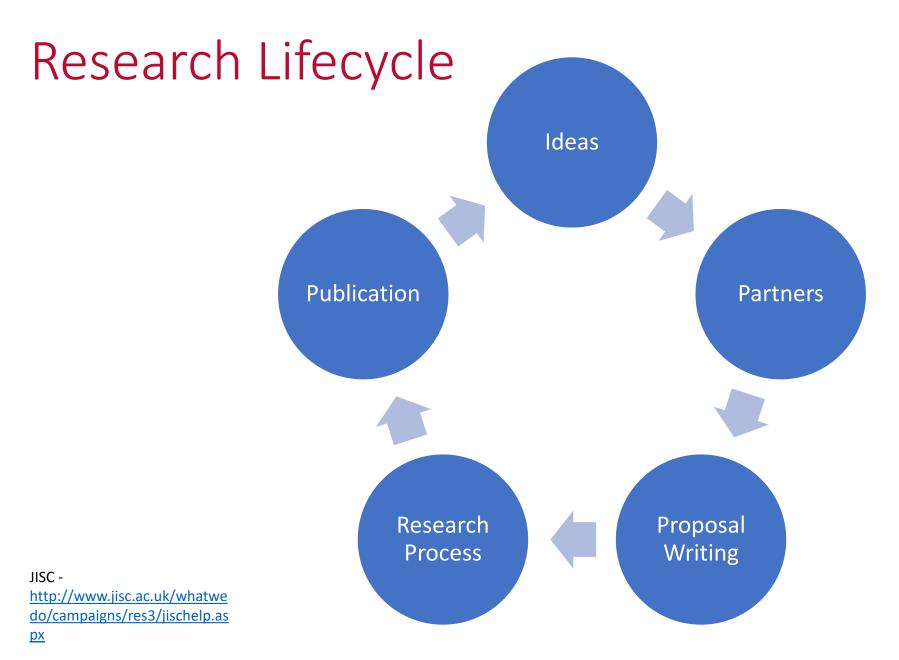
Data Management Plans required by funding agencies

Publications requiring links to supporting data

Increasing collaborative research where data must be shared

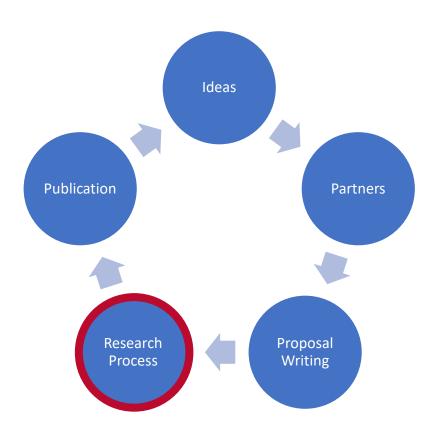


The Research & Data Lifecycles

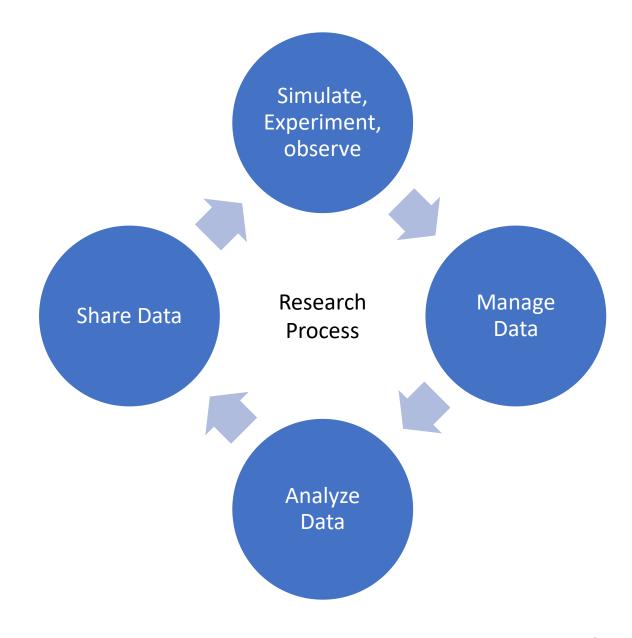


Data Management, Preservation, & Sharing Services

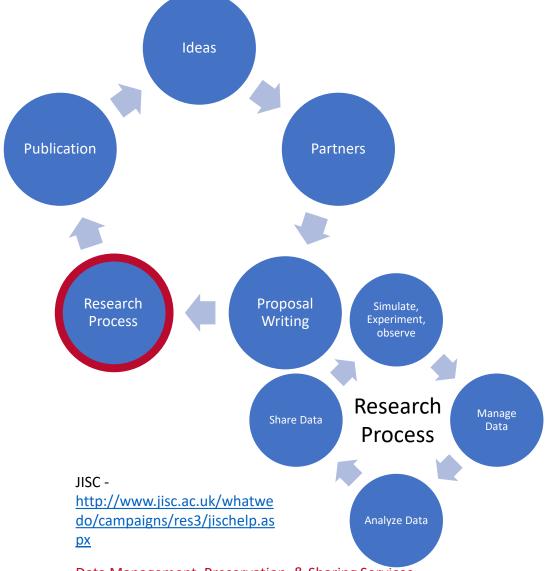
Research Lifecycle



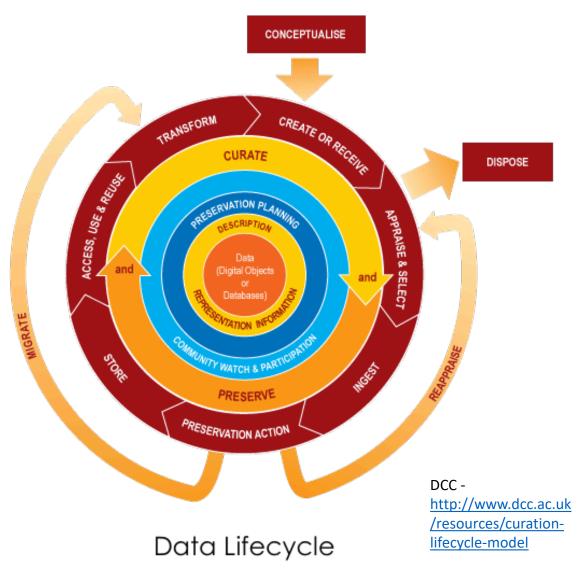
JISC - http://www.jisc.ac.uk/whatwe do/campaigns/res3/jischelp.as px



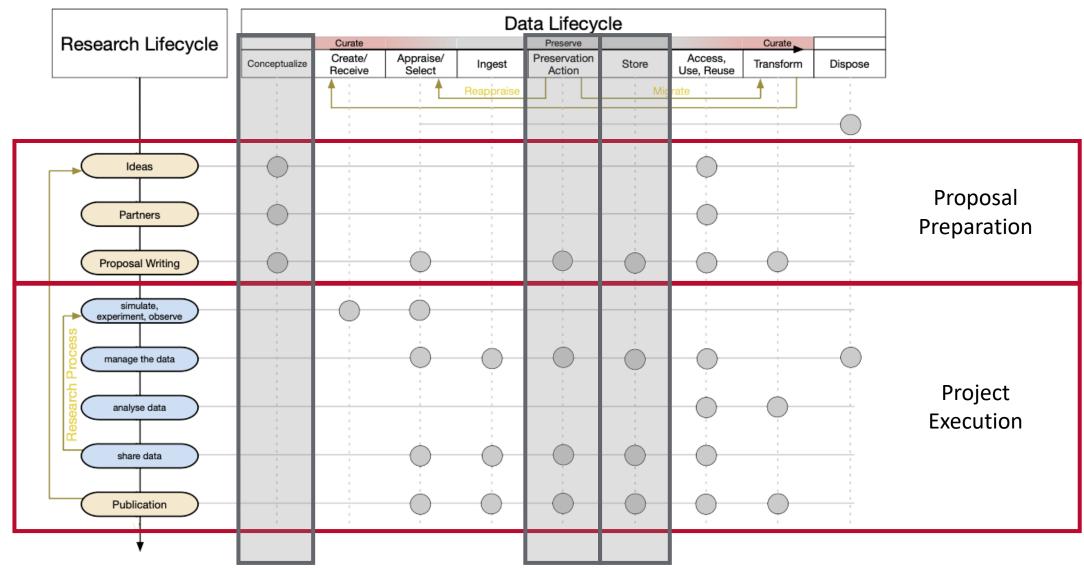
Research Lifecycle



Data Lifecycle



Research & Data Lifecycles



Collaborative Data Management & Sharing

Collaboration & Sharing Solutions

Library Supported Platforms

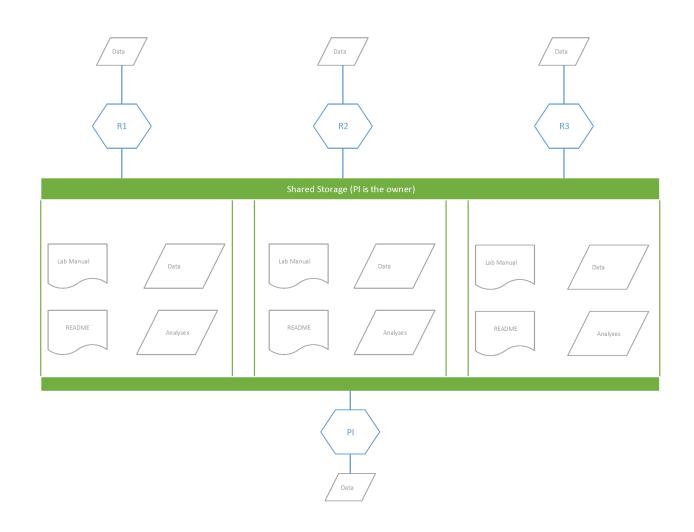
- LoboGit
 - https://lobogit.unm.edu/
 - Supports source code development, data collection, data analysis
- UNM Digital Repository
 - https://digitalrepository.unm.edu/
 - Public open access repository for documents and data
- Dryad
 - https://datadryad.org
 - Public open access data preservation
- LibSafe
 - Non-public digital preservation for all content types (images, documents, data)

Other University Supported Platforms

- OneDrive
 - File sharing & collaborative document development for nonsensitive data
- SharePoint
 - Project management & file sharing for non-sensitive data
- Secure SharePoint
 - Project management & file sharing for some sensitive data

Best Practices

- Develop a data management plan documenting
 - Expected data types & sources
 - Roles & responsibilities
 - Backup & preservation strategies
 - Publication & archiving strategies
- Centralize shared file management
- Establish project-wide file naming conventions
- Verify backups
- Share & publish documentation where appropriate



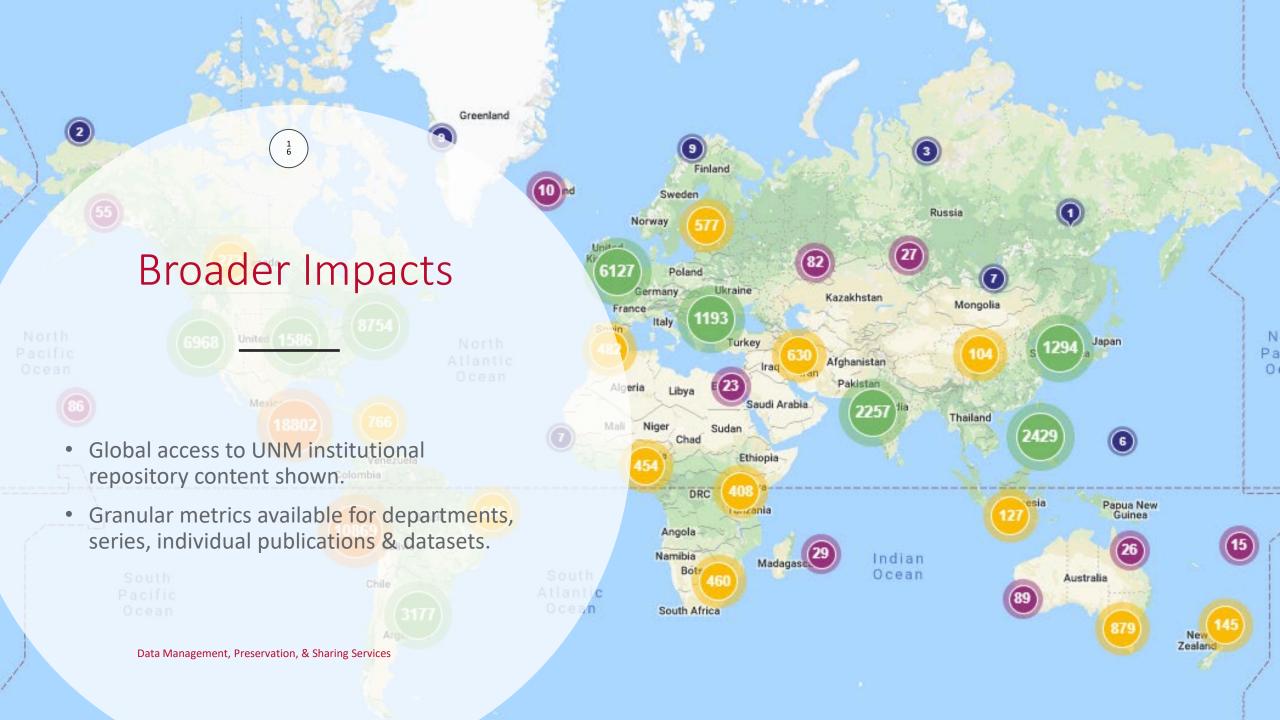
Demonstrating Impact



UNIVERSITY LIBRARIES & LEARNING SCIENCES FACULTY AND STAFF PUBLICATIONS

Functional Requirements Specification for **▲** Download Archival Asset Management: Identification and Integration of Essential Properties of Services Oriented Architecture Droducts 455 DOWNLOADS Citations Since August 26, 2016 Jon Wheeler, University of New Mexico - Main Campus Citation Indexes: 3 R PLUMX METRICS **Karl Benedict** Usage **Document Type** INCLUDED IN Preprint Downloads: 455 **Publication Date** Abstract Views: 35 Scholarly Communication Summer 9-4-2015 Commons Captures Abstract SHARE The complexity and size of geospatial data can constrain Readers: 11 service providers and create risks to the long term pres f 💆 in 🖾 🛨 of valuable information assets. While services oriented see details the Earth Data Analysis Center's Geographic Storage, Thansion and Retrieval Engine (GSToRE1) facilitate increased use and impact of geospatial data by mitigating these complexities through the development of dynamic applications and interfaces, such services can often be primarily focused on the maintenance and delivery of only the most current versions of geospatial data that may nonetheless possess significant historical, cultural, or scientific value. Actions and documentation required to assure long term preservation may not be supported by existing business models, or may be otherwise compromised. However, general purpose archives offer a preservation capability that is complementary to the value created by dynamic service providers. We present an overview of the features of GSToRE and the DSpace2 repository platform and describe the requirements of a methodology for the harvest, quality assurance, and ingest of geospatial data into an institutional repository as a complement to the dynamic data access and visualization services provided by GSToRE and systems like it.





Making Research Accessible

Research Data Services can help:

Identify Shareable Products Identify Best Fit Repositories Curate, Document & Publish Report & Assess Impact