Data Management Plans - What You Need to Know

Michele Gibney, University Libraries
Barbara Sasso, Office of Research and Sponsored Programs

https://scholarlycommons.pacific.edu/plw/2020-2021/fall/4/
Introductions

Michele Gibney, University Libraries, mgibney@pacific.edu
Barbara Sasso, Office of Research and Sponsored Programs, bsasso@pacific.edu

And you?
What is a data management plan (DMP)?

1. Description
2. Collection
3. Organization
4. Ethics
5. Storage
Why does it matter?

- Grant funding requirements
- Journals requiring the research data alongside the article/study
  - Increase impact and visibility
- Reproducibility
  - Maximize transparency, accountability and scrutiny of research findings
- Enable reuse and new research projects
Grant Compliance Checkers

http://v2.sherpa.ac.uk/juliet/

http://researchsharing.sparcopen.org/data
Funder Requirements: NIH example

**Requires Open Access Archiving**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>National Institutes of Health requires Open Access Archiving</th>
</tr>
</thead>
<tbody>
<tr>
<td>What to archive</td>
<td>Peer-reviewed publications</td>
</tr>
<tr>
<td>Publication version</td>
<td>Author’s final version</td>
</tr>
<tr>
<td>When to archive</td>
<td>When accepted for publication</td>
</tr>
<tr>
<td>Permitted Embargo</td>
<td>12 months</td>
</tr>
<tr>
<td>Where to archive</td>
<td>Named repository</td>
</tr>
<tr>
<td>Named Repositories</td>
<td>PubMed Central <a href="http://www.ncbi.nlm.nih.gov/pmc/">http://www.ncbi.nlm.nih.gov/pmc/</a> (Required)</td>
</tr>
</tbody>
</table>

**Requires Open Data Archiving**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>National Institutes of Health requires Open Data Archiving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Types of Data</td>
<td>Research Data Supporting Documentation</td>
</tr>
<tr>
<td>When to archive</td>
<td>Within a reasonable time after completion of the work</td>
</tr>
<tr>
<td>Where to archive</td>
<td>Any appropriate repository (Required)</td>
</tr>
<tr>
<td>Named Repositories</td>
<td>NIH Databases <a href="http://www.nlm.nih.gov/databases/">http://www.nlm.nih.gov/databases/</a> (Example)</td>
</tr>
<tr>
<td>Effective for all new projects from</td>
<td>1 October 2003</td>
</tr>
<tr>
<td>Special Conditions</td>
<td>Applies to applications seeking $500,000 plus in direct costs within any year of the project period. Include a data sharing plan within application. Sharing of data no later than publication of final results</td>
</tr>
</tbody>
</table>

**Funder Information**

- **Funder Name**: National Institutes of Health (NIH)  
  [English]
- **URL**: http://www.nih.gov/  
  [English]
- **Identifiers**: FundRef DOI: 10.13039/1000000002
- **Country**: United States of America
Funder Requirements: NSF example

Sherpa Juliet

Funder Information

- **Funder Name**: National Science Foundation (NSF) [English]
- **URL**: http://www.nsf.gov/ [English]
- **Identifiers**: FundRef DOI: https://doi.org/10.13039/100000001
- **Country**: United States of America

Requires Open Data Archiving

- **Requirement**: National Science Foundation requires Open Data Archiving
- **Types of Data**:
  - Research Data
  - Specimens and Samples
  - Associated Metadata
  - Program Code
- **When to archive**: Within a reasonable time after completion of the work
- **Where to archive**: 18 January 2011
- **Effective for all new projects from**
- **Special Conditions**: Applies to primary datam samples, physical collections and supporting materials created or gathered in the course of the work. Encouraged to share software and inventions. Data Management Plan must detail the types of data to be shared, the standards of data and metadata format and content, the policies for access and sharing of data, the policies for provisions of reuse and redistribution, as well as plans for archiving. Data should acknowledge support of NSF and award number. Applies to all approved NSF Individual Research and Development plans for NSF employees and Intergovernmental Personnel Act assignees
- **Data Access Cost**: Costs of access provision may be recovered on a not-for-profit basis
- **Policy links**: Dissemination and Sharing of Research Results (Policy): http://www.nsf.gov/bfa/dias/policy/dmp.jsp
Examples

Pacific

Boilerplate describing Scholarly Commons

Writing guides from ORSP Research Development

Guidance from NIH Office of Extramural Research

External

- Example of NIH Data Sharing Plans
  - Three short examples of data-sharing plans from the NIH website
  - Create a Resource Sharing Plan

- NSF Data Sharing Requirements
  - Requirements by Directorate or other NSF unit
Data Repositories - Scholarly Commons

Pacific branded
Unlimited storage
Any file type
Excellent SEO
Customizable display & metadata
FAIR Principles
FAIR Principles

1. Findable
2. Accessible
3. Interoperable
4. Reusable

https://www.go-fair.org/fair-principles/
https://www.nature.com/articles/sdata201618
Data Repositories - External

Figshare: https://figshare.com/

OSF: https://osf.io/

Re3data: https://www.re3data.org/
DMP Tool

https://dmptool.org/
Additional DMP Resources

https://dataoneorg.github.io/Education/
https://scholarlycommons.pacific.edu/plw/2020-2021/fall/4/

QUESTIONS?

Michele Gibney, University Libraries, mgibney@pacific.edu
Barbara Sasso, Office of Research and Sponsored Programs, bsasso@pacific.edu