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Applied DMP Consultation Workshop

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APPLIED DMP
CONSULTATION
WORKSHOP

LISA ZILINSKI
Data Services Specialist

Special Thanks to:
The Data Education Working Group

August 28, 2013
AGENDA

APPLIED DATA MANAGEMENT PLANNING WORKSHOP

1. Data Services Strategic Goals
2. Funding Sources
3. NSF DMP Requirements
4. Scenario
5. Types of Data
6. Data Formats & Metadata Standards
7. Access & Sharing
8. Data Re-Use and Distribution
9. Preservation and Archiving
10. Group Presentations
11. Wrap-Up and Questions
• Libraries Strategic Plan: Liaisons will assist researchers with data management planning by:
  1. Liaisons will be able to engage with faculty and graduate students in data management planning.
  2. Liaisons will be able to relate data lifecycle to restricted or sensitive data.
  3. Liaisons will be able to discuss issues related to data “ownership”.

• Relationship Building

• Potential Benefits
  – Discovery
  – Context
  – Security
  – Preservation
  – Impact through citation
  – Documentation
  – Funding mandates

DATA MANAGEMENT

FUNDING AGENCIES

• External sources
  – IES (Institute of Education Sciences)
  – IMLS (Institute of Museum and Library Services)
  – NEH (National Endowment for the Humanities)
  – NIH (National Institutes of Health)
  – NSF (National Science Foundation)

• Internal Sources
  – PRF (Purdue Research Foundation)
  – Internal Seed Grants (Showalter Research Trust)
  – Research Awards (The McCoy Award)

Resources
DMPTool Funder Requirements: https://dmp.cdlib.org/pages/funder_requirements

University of Minnesota Funding Agency Guidelines: https://www.lib.umn.edu/datamanagement/funding

Purdue University Internal Funding Sources: http://www.purdue.edu/research/vpr/funding/internal.php
National Science Foundation (NSF) Data Management Plan (DMP) Requirements

- Plans for data management and sharing of the products of research. Proposals must include a supplementary document of no more than two pages labeled “Data Management Plan”. This supplement should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results (see AAG Chapter VI.D.4), and may include:

  1. the **types of data**, samples, physical collections, software, curriculum materials, and other materials to be produced in the course of the project;
  2. the **standards** to be used for data and metadata format and content (where existing standards are absent or deemed inadequate, this should be documented along with any proposed solutions or remedies);
  3. policies for **access and sharing** including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements;
  4. policies and provisions for **re-use**, re-distribution, and the production of derivatives; and
  5. plans for **archiving** data, samples, and other research products, and for preservation of access to them.

- Data management requirements and plans specific to the Directorate, Office, Division, Program, or other NSF unit, relevant to a proposal are available at: http://www.nsf.gov/bfa/dias/policy/dmp.jsp. If guidance specific to the program is not available, then the requirements established in this section apply.

http://www.nsf.gov/pubs/policydocs/pappguide/nsf13001/gpg_2.jsp#dmp
Dear Liaison,

I need to write a data management plan for a grant I am working on. It seems to me that writing the dm plan is more intimidating than writing the grant. I will admit I still am not 100% sure what they are looking for but I think that is par for the course. I would appreciate it if you could meet with me. I am attaching a draft of a data management plan. I used the boilerplate language from the Web site as well as developed a table that I tried to then fit in the 5 needed aspects. Any feedback would be greatly appreciated.

Thanks,

HTM Faculty
TYPES OF DATA

NSF DMP SECTION 1
National Science Foundation (NSF) Data Management Plan (DMP) Requirements

1. the types of data, samples, physical collections, software, curriculum materials, and other materials to be produced in the course of the project;

SBE Directorate

*Expected data.* The DMP should describe the types of data, samples, physical collections, software, curriculum materials, or other materials to be produced in the course of the project. It should then describe the expected types of data to be retained.

Research data does not include:

A. Trade secrets, commercial information, materials necessary to be held confidential by a researcher until they are published, or similar information which is protected under law; and

B. Personnel and medical information and similar information the disclosure of which would constitute a clearly unwarranted invasion of personal privacy, such as information that could be used to identify a particular person in a research study.
DATA FORMATS AND METADATA STANDARDS

NSF DMP SECTION 2
THINGS TO CONSIDER

National Science Foundation (NSF) Data Management Plan (DMP) Requirements

2. the standards to be used for data and metadata format and content (where existing standards are absent or deemed inadequate, this should be documented along with any proposed solutions or remedies);

SBE Directorate

Data formats and dissemination. The DMP should describe data formats, media, and dissemination approaches that will be used to make data and metadata available to others.

Disciplinary Metadata Directory

http://www.dcc.ac.uk/resources/metadata-standards
DATA ACCESS AND SHARING

NSF DMP SECTION 3
THINGS TO CONSIDER

National Science Foundation (NSF) Data Management Plan (DMP) Requirements

3. policies for **access and sharing** including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements;

SBE Directorate

*Period of data retention.* SBE is committed to timely and rapid data distribution. However, it recognizes that types of data can vary widely and that acceptable norms also vary by scientific discipline. It is strongly committed, however, to the underlying principle of timely access, and applicants should address how this will be met in their DMP statement.

<table>
<thead>
<tr>
<th>What Data:</th>
<th>Data Set #1</th>
<th>Data Set #2</th>
<th>Data Set #3</th>
<th>Other Data (if applicable)</th>
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<tbody>
<tr>
<td>When:</td>
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<tr>
<td>Immediately after the data has been generated.</td>
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<td>After the data has been processed, normalized and/or corrected for errors.</td>
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<td>After the data has been analyzed.</td>
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<td>Immediately before publication.</td>
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<td>Immediately after the findings derived from this data have been published.</td>
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<td>Immediately after the funding for this project has expired.</td>
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<td>Within 6 months after the funding for this project has expired.</td>
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<td>Within 1 year after the funding for this project has expired.</td>
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<tr>
<td>Other:</td>
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</tbody>
</table>

From the Purdue University Libraries. “Data Management Plan Self-Assessment Questionnaire.”
https://purr.purdue.edu/site/media/docs/dmp_self_assessment.pdf
DATA RE-USE AND DISTRIBUTION

NSF DMP SECTION 4
THINGS TO CONSIDER

National Science Foundation (NSF) Data Management Plan (DMP) Requirements

4. policies and provisions for **re-use, re-distribution**, and the production of derivatives; and

SBE Directorate

*Data formats and dissemination.* Policies for public access and sharing should be described, including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements.

Research centers and major partnerships with industry or other user communities must also address how data are to be shared and managed with partners, center members, and other major stakeholders.

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PRESERVING AND ARCHIVING

NSF DMP SECTION 5
National Science Foundation (NSF) Data Management Plan (DMP) Requirements
5. plans for archiving data, samples, and other research products, and for preservation of access to them.

SBE Directorate
*Data storage and preservation of access.* The DMP should describe physical and cyber resources and facilities that will be used for the effective preservation and storage of research data. These can include third party facilities and repositories.

PURR Digital Preservation Policy
[https://purr.purdue.edu/legal/digitalpreservation](https://purr.purdue.edu/legal/digitalpreservation)

PURR Boilerplate Text
[https://purr.purdue.edu/about/usehub](https://purr.purdue.edu/about/usehub)
DATA MANAGEMENT RESOURCES

TOOLS, SUPPORT, and GUIDANCE

PURR: Writing a Data Management Plan
https://purr.purdue.edu/dmp

DMPTool
https://dmp.cdlib.org/

DataBib
http://databib.org/

Supporting Information for Data Services LibGuide
http://guides.lib.purdue.edu/dataservices

DMP Self-Assessment Questionnaire
https://purr.purdue.edu/site/media/docs/dmp_self_assessment.pdf

OVPR Sponsored Programs Awards Listing
http://www.purdue.edu/research/vpr/publications/archivedawards.php
DATA MANAGEMENT RESOURCES

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Each group has 7 - 9 minutes to present their DMP Consultation recommendations.
Thank you.