DMPTool for Data Management Plans

Sherry Lake
Senior Scientific Data Consultant
University of Virginia Library

Laine Farley
Executive Directory
California Digital Library

http://dmp.cdlib.org
DMP Tool Briefing

• Discuss background, purpose
• Goals of the DMP Tool
• Screenshots of functionality
• Explain how to participate
• Marketing the DMP Tool
• What’s Next for the tool
• Questions/Discussion
DMP Tool for Data Management Plans

• Helps researchers meet requirements of NSF and other U.S. funding agencies.
• Guides researchers through the process of creating a data management plan.
• Is available to everyone.
• Provides additional help for researchers at DMP Tool partner institutions.

http://dmp.cdlib.org Dec 12, 2011
Reasons for the DMP Tool

• NSF requirements for data management plans beginning Jan 2011
• Other agencies following suit: NEH, IMLS
• NIH has data sharing requirements
Goals of the DMP Tool

I. To provide researchers a simple way to create a Data Management Plan by giving them information from the funding agency:
   – Questions asked by the agency
   – Any additional explanation or context provided by the agency
   – Links to the agency website for policies, help, guidance
Goals of the DMP Tool

II. To provide researchers with additional information from their local institution:
   – Resources and services to help them manage data
   – Help text for specific questions
   – Suggested answers to questions that they can simply cut-and-paste
   – News and events related to data management on their campus

http://dmp.cdlib.org  Dec 12, 2011
DMPTool project

• Partners: CDL, DataONE, Smithsonian, UCLA, UCSD, UIUC, UVa, Digital Curation Centre (UK)
  – Great team!
• Started working in January 2011
• Developed requirements, divided work among partners, self-funded
• Usability testing at Ecological Society of America conference and University of Virginia

http://dmp.cdlib.org
In many cases, get data management advice and resources for your specific institution.

Recent DMP News

DMPTool workshop at the DLF Fall Forum
DMPTool demo: Wed Oct 19
Importance of Data Management Education

Photo courtesy of the International Maize and Wheat Improvement Center
In many cases, get data management advice and resources for your specific institution.

Data Management Plan
Atmospheric CO2 Concentrations, Mauna Loa Observatory, 2011-2013

1. Type of data produced
An samples at Mauna Loa Observatory will be collected continually from an inlets located at the summit - a central tower and four towers located at compass quadrants. Raw data files contain continuously measured CO2 concentrations, calibration standards, reference standards, daily checks, and security. The samples taken at compass quadrants were used to examine the influence of source effects associated with wind directions (S). In addition to CO2 data we will record weather data (wind speed and direction, temperature, humidity, precipitation, and cloud cover). Small conditions at Mauna Loa Observatory will also be noted and retained.

See a plan created with the DMP Tool.

Recent DMP News
DMPTool workshop at the DLF Fall Forum
DMPTool demo: Wed Oct 19
Importance of Data Management Education

More news >
In many cases, get data management advice and resources for your specific institution.

The DMP Tool allows you to:

1. 2. 3. 4.

See a plan created with the DMP Tool

Recent DMP News

DMPTool workshop at the DLF Fall Forum

DMPTool demo: Wed Oct 19

Importance of Data Management Education

More news >
<table>
<thead>
<tr>
<th>Funder</th>
<th>Funder Link</th>
<th>Sample Plan</th>
<th>Funder Requirements Template</th>
<th>Supported in DMP Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gordon and Betty Moore Foundation - GBMF</td>
<td>Guidelines</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>IMLS</td>
<td>Guidance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEH - Office of Digital Humanities</td>
<td>Guidelines</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSF - General</td>
<td>Grant Proposal Guide</td>
<td>NSF-GEN Sample 1</td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NSF-GEN Sample 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSF - Astronomical Sciences</td>
<td>Advice to Pls</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Atmospheric &amp; Geospace Sciences</td>
<td>AGS Advice</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Biological Sciences</td>
<td>Information</td>
<td>NSF-BIO Sample 1</td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NSF-BIO Sample 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSF - Chemistry</td>
<td>Advice to Pls</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Computer and Information Science</td>
<td>Advice to Pls</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>Science and Engineering</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSF - Earth Sciences</td>
<td>Guidelines</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Education &amp; Human Resources</td>
<td>Guidance</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Engineering</td>
<td>Guidance</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Materials Research</td>
<td>Advice to Pls</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Mathematical Sciences</td>
<td>Advice to Pls</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Social, Behavioral &amp; Economic</td>
<td>Contents</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
<tr>
<td>NSF - Physics</td>
<td>Advice to Pls</td>
<td></td>
<td>Template [RTF]</td>
<td></td>
</tr>
</tbody>
</table>

Disclaimer:
The sample plans provided here may or may not be associated with successful grant applications. They may contain details not relevant to your specific project. They are provided only to illustrate representative responses.

Funder Key:

NSF = National Science Foundation
NEH = National Endowment for the Humanities
IMLS = Institute of Museum and Library Services

Additional DMP Tool Help:
- DMP Tool Guide
- Video Demo
In many cases, get data management advice and resources for your specific institution.

The DMP Tool allows you to: 1 2 3 4

See a plan created with the DMP Tool

Recent DMP News

DMPTool workshop at the DLF Fall Forum
DMPTool demo: Wed Oct 19
Importance of Data Management Education

DMPTOOL is a service of the University of California Curation Center of the California Digital Library
Copyright © 2010-2011 The Regents of the University of California
Privacy Policy | Terms of Use | Photo Credits
Anyone can use the DMP Tool

Don't see your organization in the list? You can still use the DMP Tool... just select “None of the above” and you’ll be able to create an account or login.
My Data Management Plans

Create a new plan: Gordon and Betty Moore Foundation
Existing plans: 3

Plan name: gbmf
Solicitation No.:
Funder: Gordon and Betty Moore Foundation
Status: You provided responses for 0 out of 3 questions
Comment:

Plan name: Terahertz Frequency Probe Station
Solicitation No.: NSF3983
Funder: NSF-GEN: Generic
Status: You provided responses for 5 out of 5 questions
Comment: We propose to develop the first terahertz frequency (>0.5 THz) on-wafer probe station in the world.

Plan name: Blandy Farm REU Re-Newal
Solicitation No.: NSF39483
Funder: NSF-BIO: Biological Sciences
Status: You provided responses for 5 out of 5 questions
Comment: Blandy Experimental Farm (Blandy) has provided research opportunities for undergraduates since 1987 and served as an REU site from 1992-1996, 2001-2011. Our program targets undergraduates majoring in biology, environmental sciences, and science edcu
NSF-GEN: Generic: 2. Data and metadata standards

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).

- Help

Describe the format of your data and how it will be "documented". Think about what details (metadata) someone else would need to be able to use these files. For example, you may need a "readme file" to explain variables, structure of the files, etc. Consider these questions:

- Which file formats will you use for your data, and why?
- What form will the metadata describing/documenting your data take?
- How will you create or capture these details?
- Which metadata standards will you use and why have you chosen them? (e.g. accepted domain-local standards, widespread usage)
- What contextual details (metadata) are needed to make the data you capture or collect meaningful?

The file format for the S-parameter data will be the industry standard – a text file consisting of the frequency data points followed by the S-parameter data in a magnitude/phase format. A header in each file will detail the start and stop frequency, the unit of measure for the frequency data (e.g. GHz), the format of the S-parameter data (e.g. Mag./Phase) and the reference impedance used for the S-parameter data (e.g. 50 Ω).

These metadata are generated automatically for each set of S-parameter data by the vector network analyzer and will also be in a text format at the beginning of each file. This format is the industry standard for vector network analyzer measurements. A scheme for filename generation will be developed such that each data file will have a unique filename that will serve to identify...
How to participate

• Shibboleth login ("single sign-on")

• Add links to local resources, help text, suggested answers, contact information
DMPTool Participating Partners as of December 12, 2011

Arizona State University
Michigan State University
Northwestern University
Ohio State University
Penn State
Smithsonian Institution
UCLA
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Merced
University of California, Office of the President
University of California, Riverside
University of California, San Diego
University of California, San Francisco
University of California, Santa Barbara
University of California, Santa Cruz
University of Chicago
University of Illinois at Urbana-Champaign
University of Iowa
University of Michigan
University of Nebraska-Lincoln
University of North Carolina-Chapel Hill
University of Virginia
Uptake since launch in Oct 2011
Marketing the Tool

• UC:
  – VCRs/CIOs summit
  – Contracts and Grants Officers
  – Workshops: UCB, UCSC, UCSD
  – Webinars

• Conference presentations
  – Digital Library Federation
  – International Digital Curation Conference, UK
  – CNI
Why did CDL get involved?

The context for data curation

*Curation and Publishing Services*

http://www.cdlib.org

Create, edit, share, and save data management plans

Open source add-in for Microsoft Excel

Create and manage persistent identifiers

Curation repository: store, manage, and share research data

Open access scholarly publishing services: papers, journals, books, seminars & more

An infrastructure to publish and get credit for sharing research data
Going Forward

• Feedback and Surveys

• Funders: integration of DMPTool

• Resources

• Organizational and project models
  - Development-operation / budget scenarios
Founding Partners

- **CDL/UC3:**
  - Trisha Cruse
  - Perry Willett
  - Marisa Strong
  - Tracy Seneca
  - Scott Fisher
  - Stephen Abrams
  - Mark Reyes
  - Margaret Low

- **DataONE:**
  - Amber Budden

- **Smithsonian Institution:**
  - Günter Waibel

- **UCLA:**
  - Todd Grappone
  - Gary Thompson
  - Darrow Cole

- **UCSD:**
  - Brad Westbrook

- **Univ of Illinois:**
  - Michael Grady
  - Howard Ding
  - Sarah Shreeves

- **Univ of Virginia:**
  - Andrew Sallans
  - Sherry Lake
  - Carla Lee

- **Digital Curation Centre:**
  - Martin Donnelly

---

http://dmp.cdlib.org  Dec 12, 2011
Questions?

Contact uc3@ucop.edu to participate

http://dmp.cdlib.org