Data Needs Assessment

Research Data Management Group Survey of NSF Principal Investigators at Cornell University http://hdl.handle.net/1813/25624

Research Data Management Group Survey of NSF Principal Investigators at Cornell University

Developed and administered by: Dianne Dietrich, Eric Chen, Florio Arguillas, Stefan Kramer, and Gail Steinhart

This document contains the survey instrument used in a 2011 survey of NSF PIs at Cornell University.

Block 0

As you may be aware, on October 1, 2010, the National Science Foundation announced a new policy requiring a supplementary document for all grant proposals outlining the proposal's data management plan (see http://www.nsf.gov/bfa/dias/policy/dmp.jsp). This requirement will take effect on January 18, 2011. Individual programs and directorates within NSF may have additional guidelines. Other major research funders can be expected to implement similar policies, if they have not already done so.

The Research Data Management Service Group (RDMSG, http://data.research.cornell.edu/) is conducting this survey to estimate the demand on campus services for data management, and to identify potential gaps in existing services.

It should take you approximately 10 minutes to complete this survey and your participation is voluntary. You will not be required to provide any identifying information unless you choose to.

Your answers will provide valuable information for use in the RDMSG's planning efforts. Some results from this survey, such as general trends, may be used in external reports, but no identifying information or direct quotes will be used without your consent.

This survey will be closed and no further submissions will be accepted after February 1st, 2011.

Information Sessions

You are also invited to attend an informational session on the National Science Foundation's (NSF) new policy requiring a data management plan with all grant proposals. The new policy goes into effect January 18, 2011.

Staff from RDMSG will review the new requirement, describe how researchers can obtain assistance from the RDMSG to create data management plans, and answer questions.

Three sessions will be offered:

Thursday, January 13, 1:30-2:30pm, G01 Biotech Tuesday, January 18, 9:00-10:00am, 102 Mann Library Thursday, January 20, 12:30-1:30pm, 312 Hollister

By clicking the next button below, you voluntarily agree to participate in this online survey.

Block 1

Please answer the following questions with your most recent NSF award in mind.

Please specify the NSF directorate of your most recent award.

- Directorate for Biological Sciences
- Directorate for Computer & Information Science & Engineering
- Directorate for Education & Human Resources
- Directorate for Engineering
- Directorate for Geosciences
- Directorate for Mathematical & Physical Sciences
- Directorate for Social, Behavioral & Economic Sciences
- Office of the Director (includes Office of Cyberinfrastructure, Polar Programs, and others)

According to the NSF, a data management plan may include a description of "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)."
Does the data you have produced or intend to produce conform to known standards in your discipline? O Yes
NoI'm not sure
Please specify the standard(s) you are using.
"Metadata" refers to descriptive information or documentation about data.
Have you produced or do you anticipate producing metadata for this project? Yes No I'm not sure
Additional comments
Does the metadata you have produced or intend to produce conform to known standards in your discipline?
YesNoI'm not sure
Please specify the standard(s) you are using.
Would you make use of a service to produce metadata for this project? Yes, and I would be willing to pay for this service Yes, but I would not be willing to pay for this service No, I would produce metadata myself

Block 4
According to the NSF, a data management plan may include a description of "policies for access a sharing including provisions for appropriate protection of privacy, confidentiality, security, intellectu property, or other rights or requirements."
Do you anticipate needing to consult with an intellectual property specialist to create a license
agreement or usage statement for the data you have produced or intend to produce?
• Yes
No I'm not sure
• Illinot sure
When would you be able to share the data you have produced or intend to produce for this project
Immediately after collection
 Immediately after my team has analyzed the data
Six months or more after my team has analyzed the data
I would not be able to share this data
What might prevent you from sharing the data you have produced or intend to produce for this
project? Check all that apply. (You may also check no boxes if none apply.)
Little value to others
Confidentiality or privacy issues
Commercialization or patent issues Some or all of the data I work with has license or usage restrictions that prevent me from sharing
Data requires secure access I am not capable of providing
Additional comments
Block 5
According to the NSF, a data management plan may include a description of "policies and provisio for re-use, re-distribution, and the production of derivatives." Furthermore, Investigators are expect to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in a course of work under NSF grants."
Given the NSF expectation to share data with other researchers, how much data would you intend share?
I do not plan on sharing data
No more than 1 GB
 More than 1GB but less than 100 GB

	 More than 100 GB but less than 1 TB
	More than 1 TB but less than 100 TB
	More than 100 TB
	When you publish your findings from this research project, do you plan on submitting your supporting data to a journal publisher?
	Yes
	No
	Additional comments
	Do you plan on using a custom solution to share the data you have produced or intend to produce?
	Do you plan on using a custom solution to share the data you have produced or intend to produce? (i.e., Sharing data on a personal or departmental website or FTP server)
	Yes, and I plan to do this work in-house
	Yes, and I plan to contract all or part of this work
	● No
	I'm not sure
	Additional comments
	Additional comments
F	Block 6
-	
	According to the NSF, a data management plan may include a description of "plans for archiving
	data, samples, and other research products, and for preservation of access to them."
	Do you plan to deposit the data you have produced or intend to produce in Cornell's Institutional
	Repository, eCommons (http://ecommons.cornell.edu/about.html), or would you be interested in
	doing so to satisfy the NSF requirement?
	Yes
	◎ No
	Additional comments

Do you plan to deposit the data you have produced or intend to produce in CISER's Data Archive (http://iciser.comeli.edu/info/about.shtmi), or would you be interested in doing so to satisfy the NSF requirement? vea
(http://ciser.comell.edu/info/about.shtml), or would you be interested in doing so to satisfy the NSF requirement? Yes No Imnot sure Additional comments Do you plan to utilize the Cornell Restricted Access Data Center http://ciser.cornell.edu/CRADC //What_is_CRADC.shtml) to work with restricted access or limited use licensed data, or would you be interested in doing so to satisfy the NSF requirement? Yes No Imnot sure Do you plan to store the data you have produced in the Center for Advanced Computing Disk Farm (http://www.cac.cornell.edu/services/storage.aspx), or would you be interested in doing so to satisfy the NSF requirement? Yes No Imnot sure
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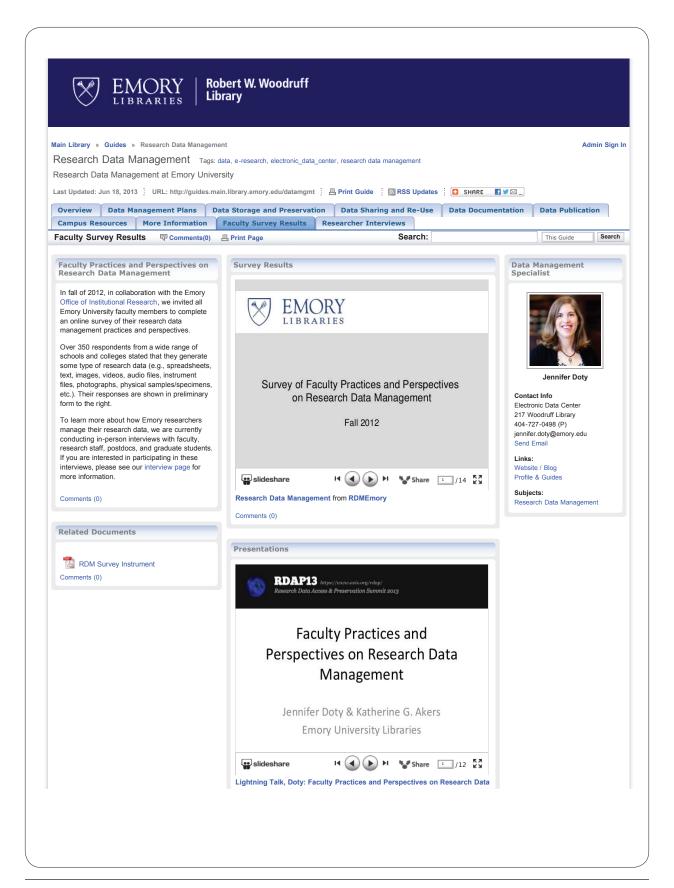
Do you plan to deposit the data you have produced or intend to produce in a data center or other
non-Cornell repository, or would you be interested in doing so to satisfy the NSF requirement?
Yes
○ No
I'm not sure
Please specify the repository (or repositories) you plan to deposit your data into.
Block 7
What is your current method of backing up the data you have produced or intend to produce for this project? Check all that apply.
Own IT infrastructure (e.g., external hard drives)
EZBackup or other campus-based solution
Commercial solution (i.e., Google Docs, Amazon S3
■ No backup
According to be because the data as a data by be beauty of the
Approximately how much data needs to be backed up?
No more than 1 GB
More than 1 GB but less than 100 GB May than 100 GB but less than 17D May than 100 GB but less than 1 TB
More than 100 GB but less than 1 TB
More than 1 TB but less than 100 TB
More than 100 TB
Block 8
The NSF specifies that if "any PI or co-PI identified on the project has received NSF funding in the past five years, information on the award(s) is required." Specifically, applicants must indicate "evidence of research products and their availability, including, but not limited to: data, publications, samples, physical collections, software, and models, as described in any Data Management Plan."
Do you currently keep track of research outputs and their availability?
Yes
No
Additional comments

	If there was a service offered where you could enter in basic information about your data (including the description, where it was available on the web) to demonstrate compliance with NSF's policy, would you make use of it? Yes
	o No
	⊚ I'm not sure
	Additional comments
	Do you anticipate or would you be interested in any sort of guidance, including consultation or instruction, for any of the data management plan components mentioned above?
	YesNo
	I'm not sure
	Additional comments
	Which components are you interested in receiving consultation or instruction for?
	A review of the datamangement components:
	 the types of data, samples, physical collections, software, curriculum materials, and other materials to be produced in the course of the project; 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); policies for access and sharing including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements;
	 policies and provisions for re-use, re-distribution, and the production of derivatives; and plans for archiving data, samples, and other research products, and for preservation of access to them.
ı	Block 9
	A review of the datamangement requirements:

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. Please share any additional thoughts or concerns you have regarding campus support for complying with funders' data management policies.
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with funders' data management policies.
with funders' data management policies.
Would you like to be contacted in the future about your response or participate in focus groups about
Data Management Plans? (Please include your contact information if yes.)

EMORY UNIVERSITY

Research Data Management. Faculty Survey Results http://guides.main.library.emory.edu/datamgmt/survey



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

A Data Planning Checklist

http://libraries.mit.edu/guides/subjects/data-management/checklist.html

Help Yourself: Subject Guides

Data Management and Publishing

<u>Home</u>

Why Manage Your Data?

<u>Data Planning</u> <u>Checklist</u>

What is Data?

Evaluate Your Data Needs

<u>Funding</u> <u>Requirements</u>

<u>Data</u> <u>Management</u> Plans

Writing an NSF Data Management Plan

Documentation and Metadata

File Formats

Organizing Your Files

Backups and Security

Sharing Your Data

Citing Data

<u>Data</u> <u>Integration</u>

Ethical and Legal Issues

Workshops

Guides to Data Management

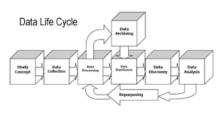
Managing Research Data 101 (PDF)

Inquiries?

Related Guides:

A Data Planning Checklist

Managing your data before you begin your research and throughout its <u>life</u> <u>cycle</u> is essential to ensure its current usability and long-



Source: DDI Structural Reform Group. "DDI Version 3.0 Conceptual Model." DDI Alliance. 2004. Accessed on 11 August 2006. http://www.icpsr.umich.edu/DDI/committee-info/Concept-Model-WD.pdf

run preservation and access. To do so, begin with a planning process. See also our page on <u>data management plans</u>.

- 1. What type of data will be produced? Will it be reproducible? What would happen if it got lost or became unusable later?
- How much data will it be, and at what growth rate? How often will it change?
- 3. Who will use it now, and later?
- 4. Who controls it (PI, student, lab, MIT, funder)?
- 5. How long should it be <u>retained</u>? e.g. 3-5 years, 10-20 years, permanently
- 6. Are there <u>tools or software</u> needed to create/process/visualize the data?
- 7. Any special <u>privacy</u> or security requirements? e.g., personal data, high-security data
- 8. Any sharing requirements? e.g., funder data sharing policy
- 9. Any other funder requirements? e.g., data management plan in proposal
- 10. Is there good project and data documentation?
- 11. What directory and file naming convention will be used?
- 12. What project and data identifiers will be assigned?
- 13. What file formats? Are they long-lived?
- 14. Storage and backup strategy?
- 15. When will I publish it and where?
- 16. Is there an ontology or other community standard for <u>data sharing/integration?</u>
- 17. Who in the research group will be responsible for data management?

Faculty Successes:

"I've had thousands of downloads of my published data--I am impressed that it's been so useful to others!"

Esther Duflo, Abdul Latif Jameel Professor of Poverty Alleviation and Development Economics, MIT

For advice on a data management project, contact:

management@mit.edu

Courtney Crummett
Bioinformatics and
Biosciences Librarian

Anne Graham

Civil and Environmental Engineering, Building Technology Librarian

Katherine McNeill
Social Science Data

Social Science Data Services & Economics Librarian

Daniel Sheehan Senior GIS Specialist

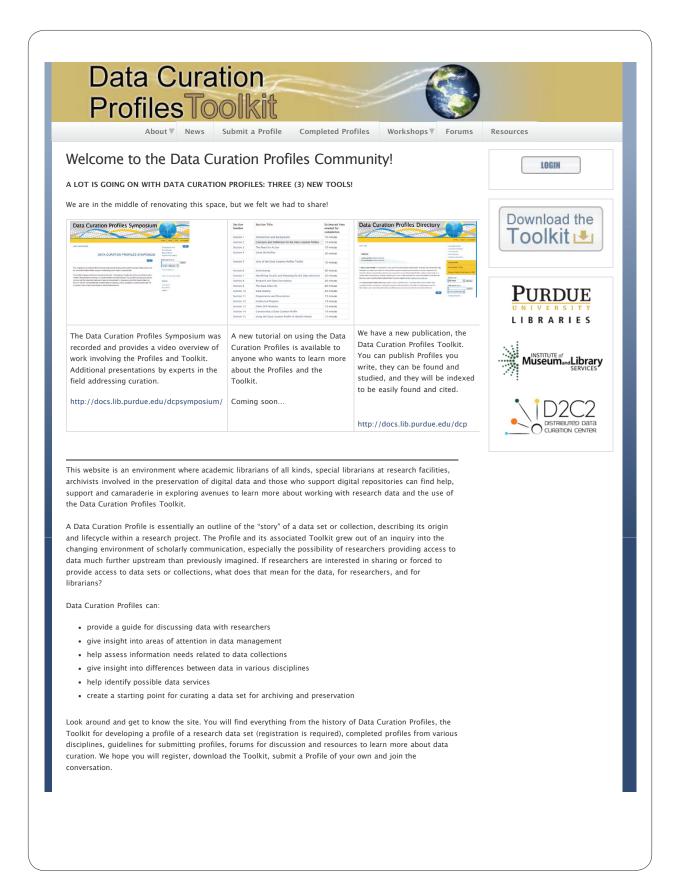
Jerilor GIJ Special

Amy Stout

Electrical Engineering and Computer Science Librarian

PURDUE UNIVERSITY

Data Curation Profiles Toolkit http://datacurationprofiles.org/



Data Interview Protocol

http://dmconsult.library.virginia.edu/SciDaC/files/2013/04/Data-Interview-Protocol.docx

Data Interview Protocol

This document is the step-by-step set of instructions for the actual interview. This is to serve as the master copy, accompanied by a question template that is designed to be printed and used to ask focused questions along with check boxes to account for all of the protocol issues. The template will also allow for note taking during the interview.

Data Interview Constraints

- > Interview will consist of:
 - o Scientific Data Consultant Group members (two) and subject librarian (one)
 - o Researcher (one) being interviewed.
 - o Optionally, an additional technical expert invited by the researcher.
- > An interview will last no more than sixty minutes.
- Interviews will be semi-structured to allow free-flowing discussion.
- > Information to be gathered includes:
 - o The state of current data management efforts.
 - o Types of digital data created.
 - o A prioritized needs assessment covering:
 - Current situation and future needs.
 - o Functional specifications for services to meet those needs.

Mission of the Data Interview

At the start of the interview, we will briefly review why we are doing these data interviews and why the library is suited to do it.

- Library goal of supporting researcher needs.
- Library focus on data management.
- > Scientific Data Consultant Group Experience:
 - Research Computing Lab, Dataset Task Force, Metadata Steering Group, Institutional Repository Implementation Team
- > Purpose of the Data Interview Initiative:
 - o Identify common researcher data problems and needs.
 - Identify communities and individuals who are under the most pressure from upcoming grant regulations.
 - o Provide data management recommendations and training.
 - $\circ\quad$ Identify the types of digital "data" that are being created.
 - o Identify potential partnerships for IR data deposit implementation.
- Remember there are no "right" answers! We want an honest assessment of your practices. That includes your successes and your failures.
- Mention IRB and give them a copy

Scientific Data Consulting Group (SciDaC) / February 2012

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Data Interview Protocol

http://dmconsult.library.virginia.edu/SciDaC/files/2013/04/Data-Interview-Protocol.docx

Data Interview Protocol

What Is Your Data All About?

To start the interview we'd like to get some background information on your research. If you'd like, you can discuss your lab's work as a whole, or focus on a specific project.

- 1.1 What question are you trying to answer?
- 1.2 What is the process/method to answer the questions?

What Kind of Data Do You Have?

Now that we've heard about your research, let's talk specifically about what kind of data you produce.i.e. what they create and use, and their attitude towards digital material. Here we are looking for the data characteristics, types, sizes and transformations.

the data characteristics, types, sizes and transformations.
2.1 Describe the data you create in your research.
Here we are looking for the data characteristics, types, sizes and transformations.

General Category (experimental, simulation/computational, observational, derived/compiled)
Creation (sensors, instruments, software)
Data Type (docs, emails, databases, images, videos, etc.)
Data Format (MS Word, Excel, spss, html, jpg, etc.)
Amount (#files, files sizes, growing?)

2.2 Another issue related to data is that of intellectual property. Who owns the Intellectual Property rights of the data you create? Are you familiar with the following UVa policies?

Lab Notebook Policy
UVa's Ownership Rights Police

How Do You Work With Your Data?

Now we'd like to talk about the practices you have in place to organize your data.

3.1 Who is responsible for managing the data? Are you using any filing or naming conventions for the files? How are the files organized? Is there any documentation on the files and/or data fields?

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Data Interview Protocol

http://dmconsult.library.virginia.edu/SciDaC/files/2013/04/Data-Interview-Protocol.docx

Here v	ve are lookina for information on mo	anaaina the do	ata. A	Are there set procedures? What role
	rach person play?	anaging the at	itu. r	are there set procedures: what role
	Management Plan			File Backup/loss/recovery
	Naming Conventions			File storage
	File Organization			Backups
	Documentation			
-		_		nail, shared drive, removable devices,
			-	le working on the same data files? If so
•	ou had issues regarding which versi	on was "corre	ct" o	or the latest? How are these issues
	olled or resolved? File sharing			
	Issues related to multiple file vers	ions		
Preservati	on Concerns			
We are loo	oking for any digital preservation iss	ues in this sec	tion	of the interview. Continue discussion to
ascertain	whether any issues have been encou	untered when	crea	ting and using digital material to identi
areas whe	re practices could improve.			
	ve are looking for preservation issue			•
4.1 W	hat challenges have you faced in ter			a in their own lab/computer. mats, costs, and continued access to
4.1 W ol	hat challenges have you faced in tender data?	rms of storage	, forr	mats, costs, and continued access to
4.1 W ol	hat challenges have you faced in ter der data? Do they have older files?	rms of storage	, forr Lost	mats, costs, and continued access to
4.1 W ol-	hat challenges have you faced in ter der data? Do they have older files? Obsolete data formats	rms of storage	, forr Lost Stor	mats, costs, and continued access to or misplaced data rage space
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Data Shari	ng and Long-term Accessibility	1		
	thinking about the future of the propriate), do they need to be			cessed and
	ive you been asked to provide o		•	e reused or
	purposed by others, and if so, h	· ·		0 111 11 1
	Publisher requirement Funder requirement		Restrictions (Confidentiality, S Documented for sharing	sensitivity)
Long-term	Preservation			
5.2 Do	your files need to be preserve	d? For how long?	Does all of it need to be kept?)
	Raw or processed data or bot			
	Who decides? Who is respons	sible?		
	Where? Libra, the UVa IR			
	How long?			
Ask where provided b	the interviewee currently gets by the University. Key thing is to ementary support needed to im	advice and suppo gauge desire for		
6.1 W	hat would help you create and	manage your data	better?	
6.2 WI	ho should be responsible for di	gital preservation	? Who should be responsible f	or funding it?
	Preservation responsibility			
	Help, where? Library			
	hat sort of impact might a Univ rt of policy do you think would		on data preservation have upo	on you? What
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Data Interview Protocol

Follow-Up Plans

Review the steps that will come after the interview is complete (Script for interview is included below).

- 7.1 Team combines interview notes.
- 7.2 Send aggregated report to researcher for review/approval, corrections/additions on notes. To expediate things we need the approval/feedback back within one week.
- 7.3 Ask for feedback for interview process.
- 7.4 Provide a complete report that includes a summary of the conversation, responses to the interview questions, and recommendations on how to improve your data management.

Script from the Data Interview Template (for this section):

Thank you for participating in our Data Interview. Here are our next steps:

- 7.1 Andrew, Sherry and I will combine our interview notes.
- 7.2 I will send you an aggregated report for your review/approval, corrections/additions on our notes. Please return the approval/feedback within one week.
- 7.3 When you send the report back to us, we would like to have your feedback on our interview process.
- 7.4 Once we have your comments on the report. I will provide you with a complete report that will include a summary of the conversation, responses to the interview questions, and recommendations on how to improve your data management.

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