DATA MANAGEMENT PLANNING: THE BASICS

NCSU Libraries
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AGENGA & OBJECTIVES | OUTCOMES

Agenda & Objectives:

- Introductions
- What is a DMP
- Elements of a DMP
- Services and support at NCSU

Outcomes:

- Understand components of a data management plan
- Learn about the DMPTool
- Learn about resources
- Handouts – Checklist, Resources, NSF FAQ, Example DMP

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INTRODUCTIONS

- Name
- Dept/Affiliation
- Your research (in brief)
- One thing you'd like to learn today

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WHAT IS A DATA MANAGEMENT PLAN (DMP)?

WHAT: A DMP is a document that describes how you will organize, store, and share your research data – during and after you complete your research.

WHO REQUIRES A DMP:

- Funders (e.g., NSF, NEH, NOAA, NIH, GBMF)
- Journals require data sharing (e.g., PLoS, PNAS, Nature, Dryad)
- Institutional Review Boards

WHY:

- Preserve your data for transparency and replication
- Facilitate new discoveries via re-use
- Increase visibility of your work

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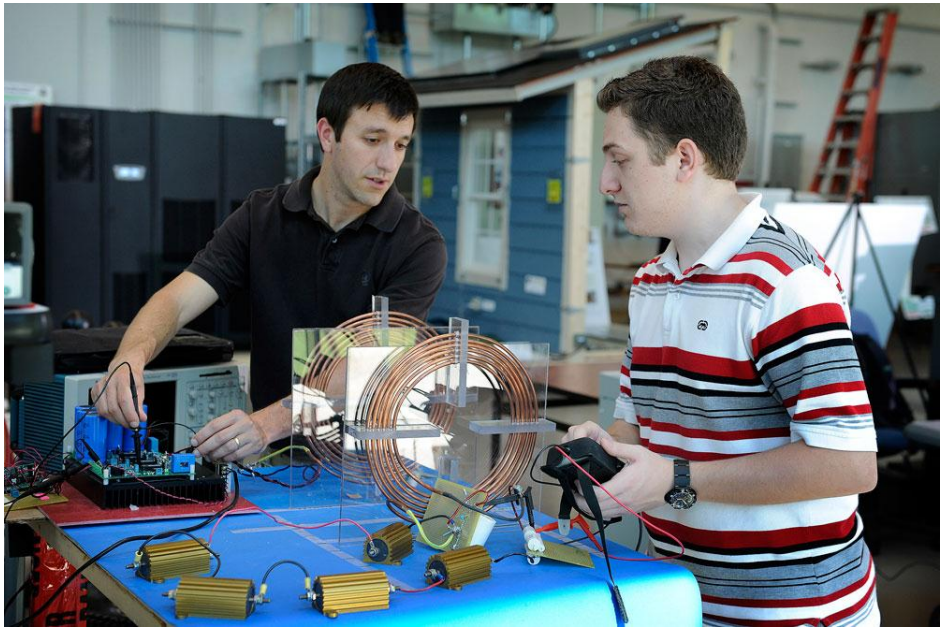
PRODUCTS OF RESEARCH –OR- DATA TYPES

- What kind of data (observations) are you generating? How much?
- What types of data?
- How are you creating or capturing the data?
- Are you using existing data?



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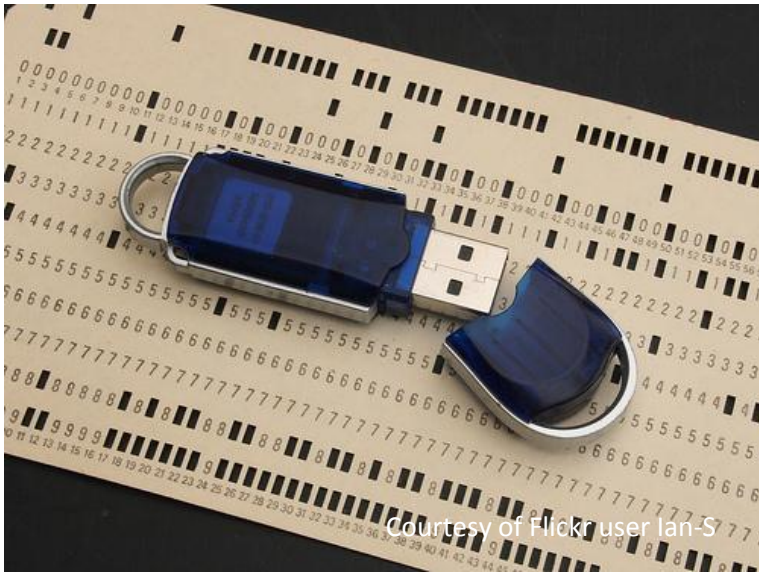
DATA STORAGE & PRESERVATION

- What's the long-term strategy for maintaining, curating and archiving the data?
- How long should data be kept after project is over?
- Where will you deposit your data?
- What procedures are in place for preservation and backup?
- What transformations will be necessary to prepare data for preservation / data sharing?
- What documentation is needed to make the data reusable?



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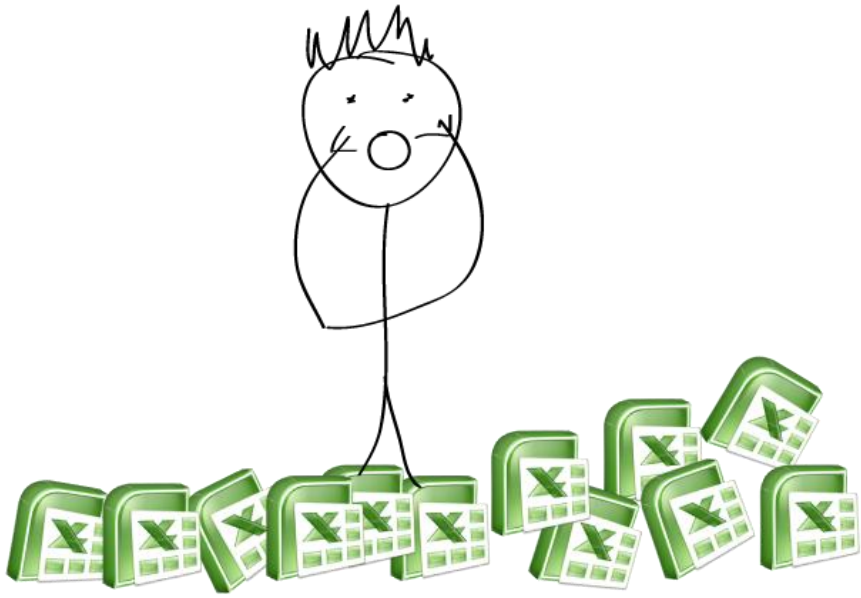
DATA FORMATS & METADATA

- Which file formats will you use and why?
- What form will the contextual details (metadata) describing your data take?
- How will you create or capture the metadata?
- Which metadata standards will you use and why have you chosen them?
- What contextual details (metadata) are needed to make the data you capture or collect meaningful?



Courtesy of John Vickery

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DATA DISSEMINATION, SHARING, ACCESS

- How/when will data be available?
- How will access be provided & for how long?
- Will restrictions be placed on the data?
- Are there ethical & privacy issues? If so, how will these be resolved?
- What have you done to comply with IRB protocols?
- Who will hold the intellectual property rights to the data?
- Who/what are the potential users?
- Are there any reasons not to limit or withhold the data?

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ROLES & RESPONSIBILITIES

- Who is responsible for implementing the DMP?
- Who will confirm adherence to the DMP?
- How will responsibility of the data be transferred?
- Who is responsible for long-term decisions about the data?
- What training is necessary to manage the data?
- Who will pay for the management of the data?

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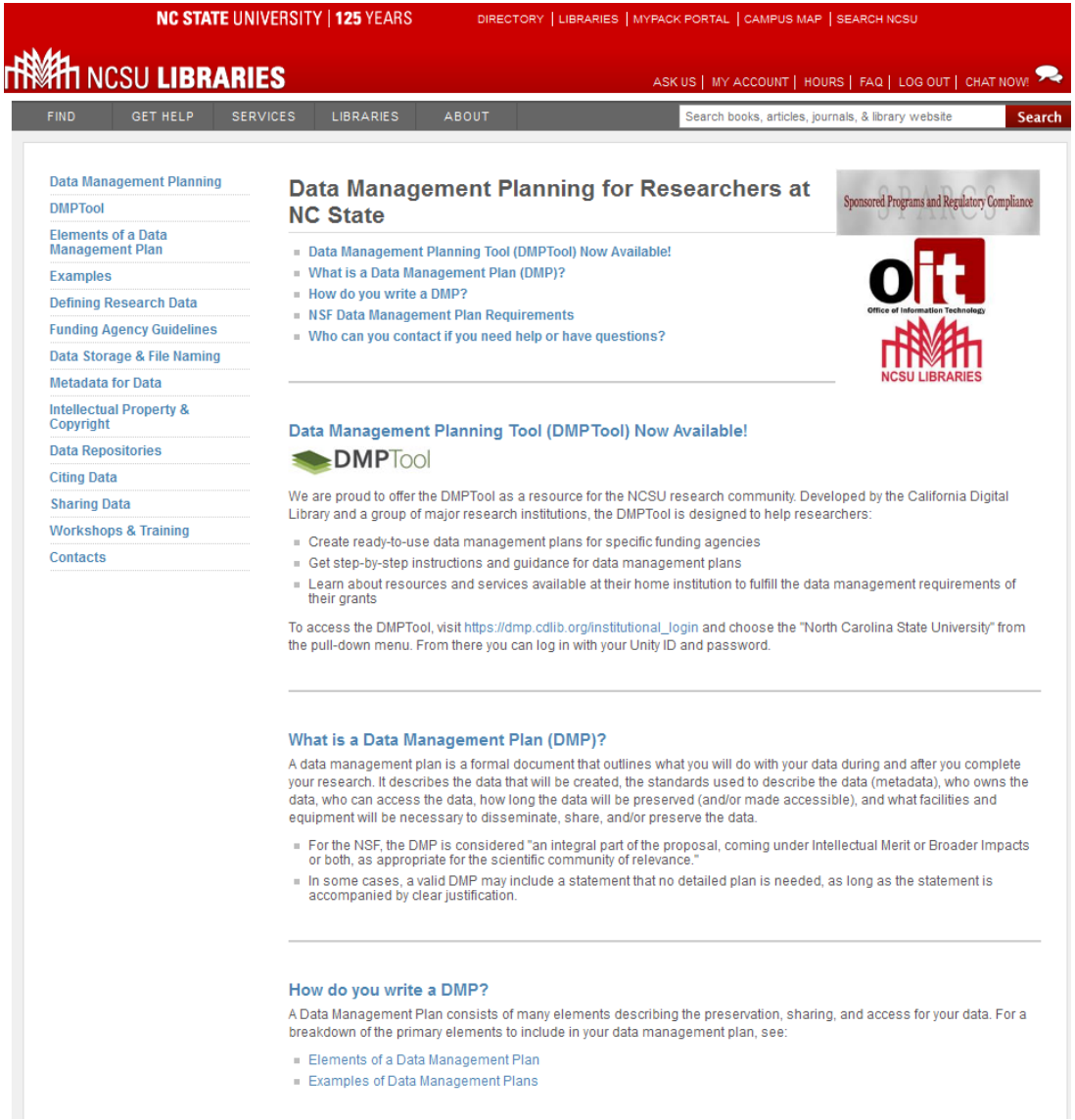
NCSU DATA MANAGEMENT PLANNING GUIDE

http://www.lib.ncsu.edu/guides/datamanagement/



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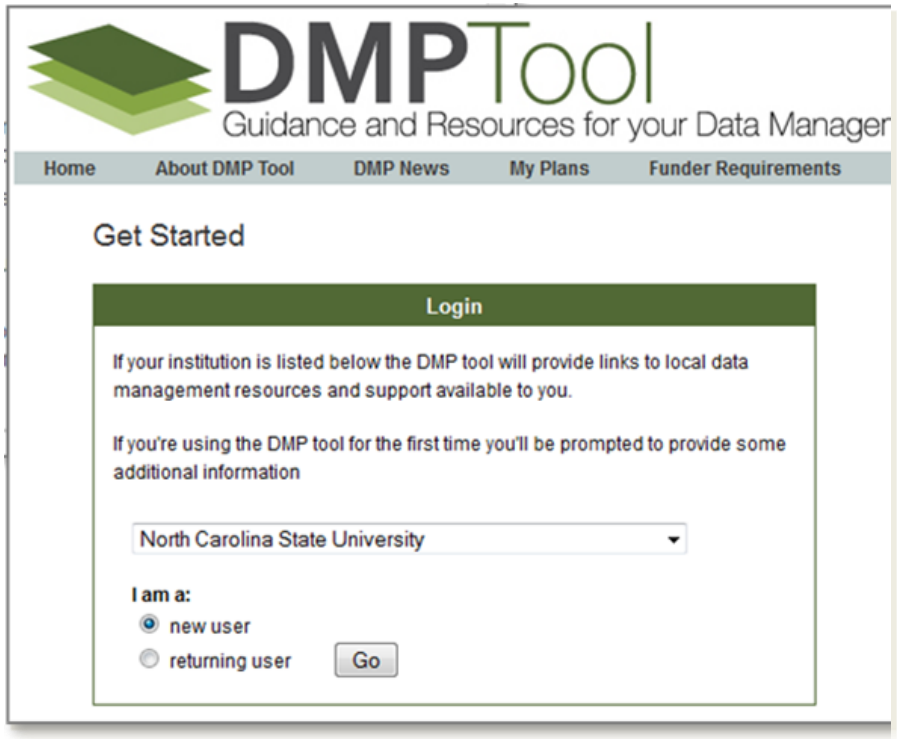
DMPTool

- Free scratch space
- Step-by-step guidance
- Use Unity ID to log-in
- Template for each funder
- Links embedded



NCSU SERVICES & SUPPORT – IP & COPYRIGHT

What Do You Own?

- No © in data
- "Thin" © in compilations
- Supplementary materials

How Will You Share?

- Preference for open access
- CC-BY or CC-0 license?

NCSU's Copyright & Digital Scholarship Center

(http://www.lib.ncsu.edu/cdsc)

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NCSU SERVICES & SUPPORT

Office of Information Technology:

- Shared Services: http://oit.ncsu.edu/ac
- Storage & Backup, HPC, Software licensing, IT security, web hosting, networking

Research Administration:

- SPARCS: http://research.ncsu.edu/sparcs/
- Research Integrity, Compliance, Proposal development, IRB, REACH NC, Funding opps, Scholarly data ownership

NCSU Libraries:

- DMP guide & DMPTool: http://www.lib.ncsu.edu/guides/datamanagement/
- Consultation and guidance for Storage & File-naming, Metadata, Citing data, Sharing data, Data Repositories

SUMMARY & QUESTIONS

- NCSU DMP Guide: http://www.lib.ncsu.edu/guides/datamanagement/
- DMPTool
- library_datamanagement@ncsu.edu

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