

## Context & Background Information

This survey is designed to capture feedback from participants in training, instruction and consultation sessions provided by UNM's Research Data Services Program as part of our effort to increase the *knowledge, skills and abilities* of the researchers that we support to effectively *plan for, manage, document, share, and preserve* the research data that are critical for maximizing the impacts of research projects.

To provide context for your responses please answer the following questions about the type of *Research Data Services* session you most recently participated in and about your disciplinary context.

1. What type of Research Data Services session did you most recently participate in? You can select multiple options if the session included more than one topic area.

- ☐ **Conceptual Overview** - an introduction to data management concepts, requirements, and principles
- ☐ **Design** - plan, strategy, workflow, schema, or architectural development for multiple steps in a research data management process
- ☐ **Skills Development** - instruction and practice with specific data management, analysis, visualization, collaboration, and/or preservation technologies and infrastructure to accomplish specific tasks

Other (please specify)

2. What was the duration of the session referenced in (1) above?

- ☐ less than 1 hour
- ☐ 1-3 hours
- ☐ 3 or more hours

3. What was the context of your most recent RDS session?

- ☐ **Class Session** - instruction or training provided in conjunction with a class
- ☐ **Research Group** - instruction or training provided to your lab or project team
- ☐ **Departmental** - instruction or training provided to members of your department
- ☐ **Individual** - instruction, training or support provided to you individually through one or more consultation sessions
- ☐ **Workshop** - instruction or training provided through a scheduled event outside of a class, project team, or departmental context.
- ☐ Other (please specify)

4. If your RDS provided session included a conceptual overview, what topics were covered? (choose all that apply)

- ☐ Funding agency data management planning and access requirements
- ☐ Publisher data access requirements
- ☐ Research and/or Data lifecycle
- ☐ Documentation (metadata) requirements and strategies
- ☐ Data organization (file/folder naming conventions and structure)
- ☐ Data formats (in-process and/or preservation formats)
- ☐ Data structure (column naming, internal organization within files)
- ☐ Data storage and backup strategies
- ☐ Workflow development and automation strategies
- ☐ Other (please specify)

5. If your RDS provided session included a research design/planning component which of the following topics were covered? (choose all that apply)

- ☐ Research design informed by the combined research and data lifecycles
- ☐ Sponsor *Data Management Plan* (DMP) requirements
- ☐ Publisher data access/sharing requirements
- ☐ Collaboration strategies with project partners
- ☐ Research workflow and automation planning
- ☐ Other (please specify)

6. If your RDS provided session included skill development in specific technologies for managing, analyzing, documenting or preserving data, what topics were covered? (choose all that apply)

- ☐ Spreadsheet Software (Microsoft Excel, LibreOffice, Numbers, etc.)
- ☐ GIS (Quantum GIS, ArcGIS, etc.)
- ☐ Quantitative Analysis (MATLAB, SPSS, SAS, R, etc.)
- ☐ Data Visualization (Microsoft Excel, R, Tableau, d3, etc.)
- ☐ Qualitative Analysis (NVIVO, Atlas TI, etc.)
- ☐ Programming Language (Python, shell scripting, etc.)
- ☐ XML or Code Editors (Oxygen, Notepad++, BBedit, vi, EMACS, etc.)
- ☐ Collaborative Data Storage (LoboDrive, OneDrive, etc.)
- ☐ Collaborative Code Development (LoboGit, GitHub, Docker, etc.)
- ☐ Research Collaboration Platform (Open Science Framework, etc.)
- ☐ Data Preservation Systems (UNM's LibSafe system, Digital Preservation Network, LOCKSS, etc.)
- ☐ Data Repositories (UNM Digital Repository/Digital Commons, domain repositories, etc.)
- ☐ Other (please specify)

Your disciplinary context and previous research data management training and instruction experience

7. What is your academic department, program, or other unit?

8. What is your position in the program selected above?

- ☐ Undergraduate Student
- ☐ Graduate Student
- ☐ Post-Doctoral Researcher
- ☐ Staff
- ☐ Untenured faculty (including research faculty, lecturers, and part-time instructors)
- ☐ Tenured faculty
- ☐ Other (please specify)

9. If you have previously participated in data management training (provided by RDS or not), what type(s) of research data management topic areas have you had training in? (choose all that apply)

- ☐ **Conceptual Overview** - an introduction to data management concepts, requirements, and principles
- ☐ **Design** - plan, strategy, workflow, schema, or architectural development for multiple steps in a research data management process
- ☐ **Skills Development** - hands-on work with specific data management, analysis, visualization, collaboration, and/or preservation technologies to accomplish specific tasks

Other (please specify)

## Knowledge, Skills and Abilities

10. How would you **describe your knowledge** in the following knowledge areas **prior to** the RDS session?

	None	Limited	Some	Functional	Strong
Funding agency data management planning and access requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Publisher data access requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research and/or Data lifecycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Documentation (metadata) requirements and strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data organization (file/folder naming conventions and structure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data formats (in-process and/or preservation formats)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data structure (column naming, internal organization within files)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data storage and backup strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Workflow development and automation strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

11. How would you **describe your knowledge** in the following areas **after** to the RDS session?

	None	Limited	Some	Functional	Strong
Funding agency data management planning and access requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Publisher data access requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research and/or Data lifecycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Documentation (metadata) requirements and strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data organization (file/folder naming conventions and structure)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data formats (in-process and/or preservation formats)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data structure (column naming, internal organization within files)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data storage and backup strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Workflow development and automation strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. How would you **describe your abilities** in the following areas **before** the the RDS session?

	None	Limited	Some	Functional	Strong
Research design informed by the combined research and data lifecycles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sponsor <i>Data Management Plan</i> (DMP) requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Publisher data access/sharing requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration strategies with project partners	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research workflow and automation planning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. How would you **describe your abilities** in the following areas **after** the the RDS session?

	None	Limited	Some	Functional	Strong
Research design informed by the combined research and data lifecycles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sponsor <i>Data Management Plan</i> (DMP) requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Publisher data access/sharing requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration strategies with project partners	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research workflow and automation planning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. How would you **describe your skills** in the following technologies **prior to** the RDS session?

	None	Limited	Some	Functional	Strong
Spreadsheet Software (Microsoft Excel, LibreOffice, Numbers, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GIS (Quantum GIS, ArcGIS, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quantitative Analysis (MATLAB, SPSS, SAS, R, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Visualization (Microsoft Excel, R, Tableau, d3, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Qualitative Analysis (NVIVO, Atlas TI, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming Language (Python, shell scripting, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
XML or Code Editors (Oxygen, Notepad++, BBedit, vi, EMACS, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborative Data Storage (LoboDrive, OneDrive, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborative Code Development (LoboGit, GitHub, Docker, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research Collaboration Platform (Open Science Framework, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Preservation Systems (UNM's LibSafe system, Digital Preservation Network, LOCKSS, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Repositories (UNM Digital Repository/Digital Commons, domain repositories, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. How would you **describe your skills** in the following technologies **after** the the RDS session?

	None	Limited	Some	Functional	Strong
Spreadsheet Software (Microsoft Excel, LibreOffice, Numbers, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GIS (Quantum GIS, ArcGIS, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quantitative Analysis (MATLAB, SPSS, SAS, R, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Visualization (Microsoft Excel, R, Tableau, d3, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Qualitative Analysis (NVIVO, Atlas TI, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming Language (Python, shell scripting, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
XML or Code Editors (Oxygen, Notepad++, BBedit, vi, EMACS, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborative Data Storage (LoboDrive, OneDrive, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborative Code Development (LoboGit, GitHub, Docker, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research Collaboration Platform (Open Science Framework, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Preservation Systems (UNM's LibSafe system, Digital Preservation Network, LOCKSS, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Repositories (UNM Digital Repository/Digital Commons, domain repositories, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Data sharing and session feedback



Please help us to expand and improve our capabilities to provide training and support by responding to the following questions about your particular research data management, analysis and sharing needs and practices.

16. What types of data of you currently manage, analyze, or share? What expectation or requirements do you have around these activities?

17. How do you manage your research data?

18. If you share your research data how do you prepare your data for sharing? How do you know when your data are ready to share?

19. Following what you have learned in the RDS session, are there any changes that you will make to your data management and sharing practices?

20. What did you find most useful in the RDS session? What session content might be useful to your peers?

21. What did you find least useful about the session? What areas of improvement do you suggest?

Thank You

**Thank you** for participating in our Research Data Services impact survey. By clicking the Done button below you will submit your responses to the system for use in improving our program's instruction and training program and contribute to our understanding of the impact of research data services on the knowledge, skills, abilities and attitudes of researchers in the area of research data planning, management, documentation, analysis, visualization, sharing, and preservation.

