Introduction to Research Data Management Lifecycle

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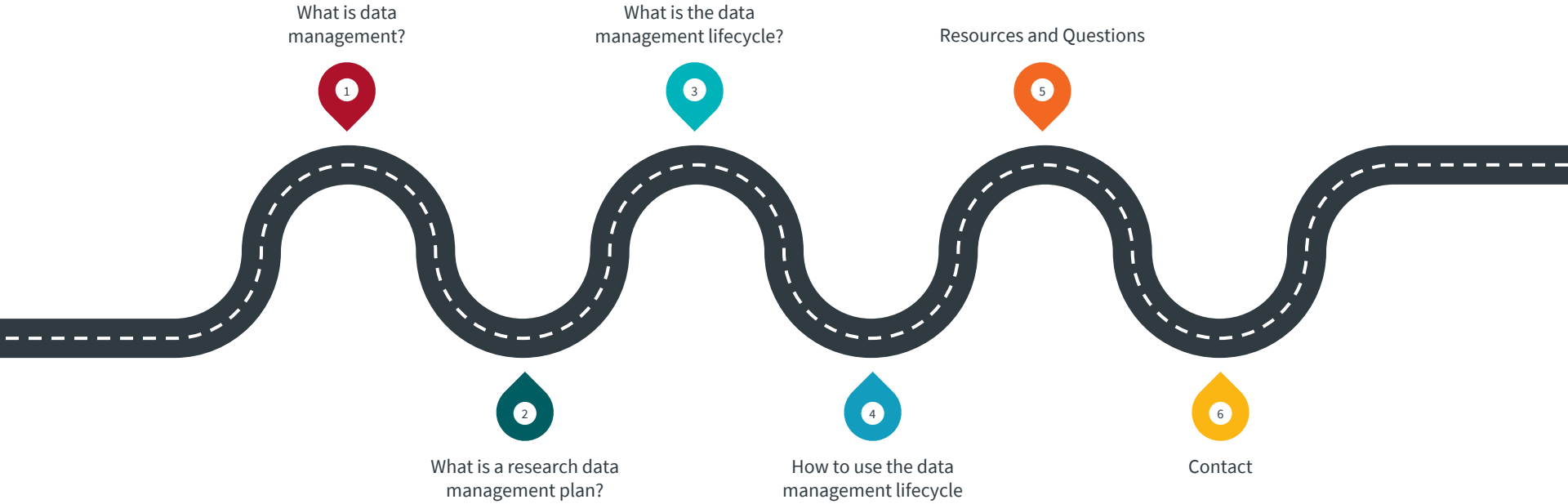
University of Nebraska Medical Center

Session Outline



Objectives

By the end of this session, you will be able to:

1. Understand the purpose of the research data management lifecycle
2. Identify the benefits of using the research data management lifecycle
3. Use the research data management lifecycle for your research

What is data management?

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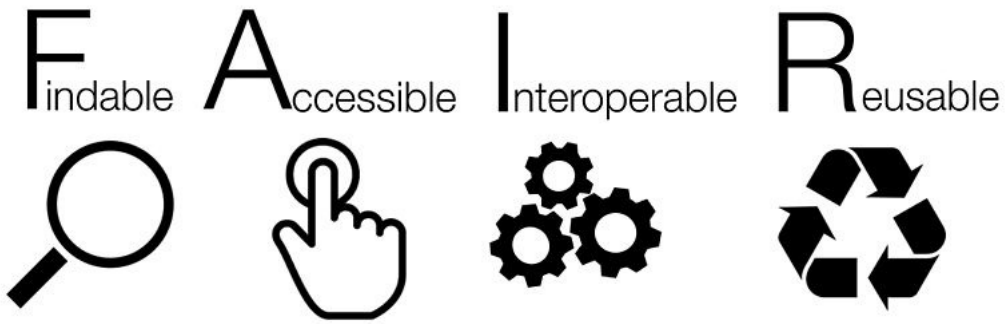


FAIR

- Findability
- Accessibility
- Interoperability
- Reusability

(FAIR) serves to guide data producers and publishers as they navigate around these obstacles, thereby helping to maximize the added-value gained by contemporary, formal scholarly digital publishing

https://www.go-fair.org/fair-principles/

FAIR

Findable – data should be possible for others to discover your data; metadata should be available online, and all data should have a persistent identifier (example: DOI)

Accessible – humans and computers should be able to gain access to your data (when appropriate); metadata can be accessible if the data cannot be

Interoperable – data and metadata should conform to recognized formats and standards to allow them to be exchanged

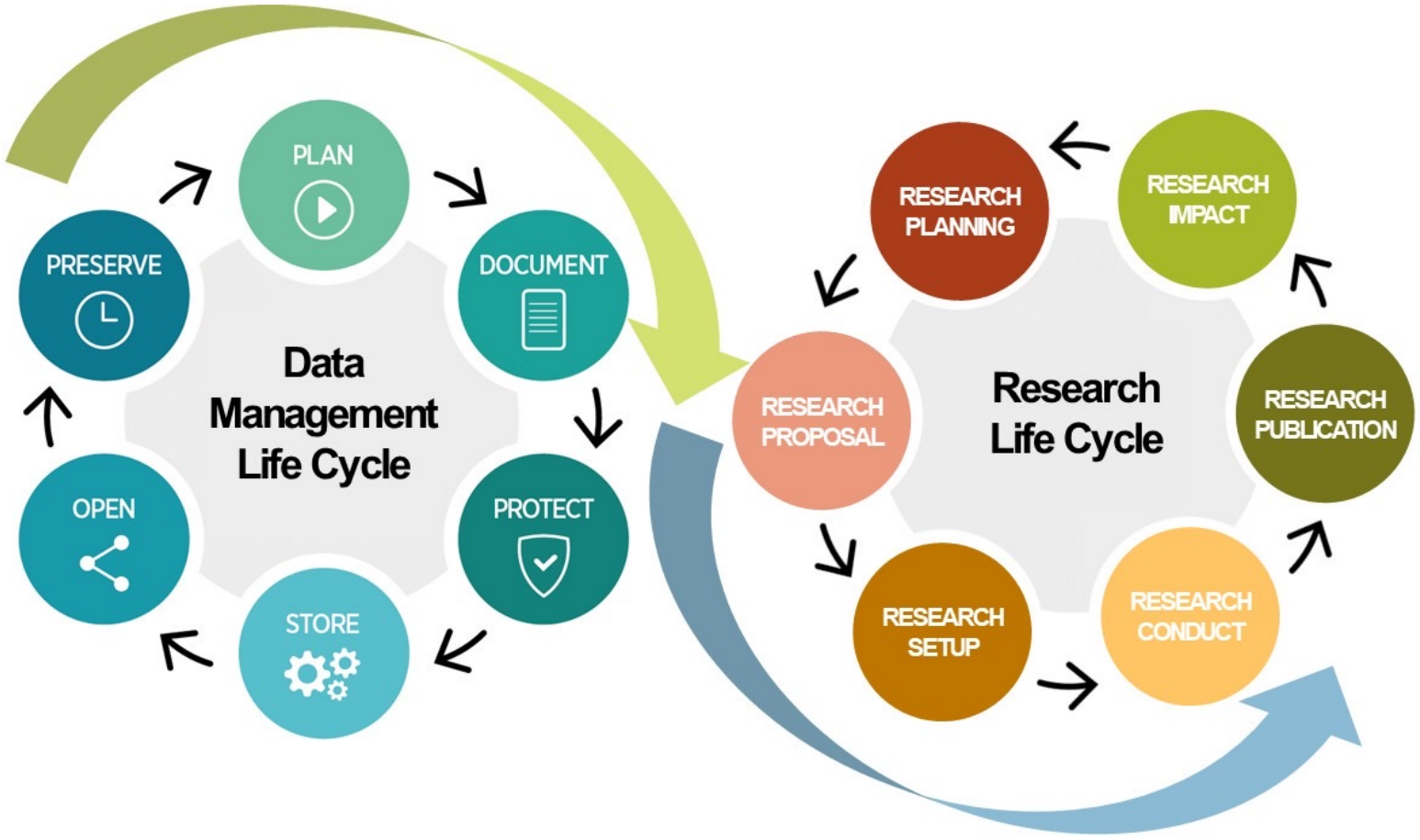
Reusable – Include documentation to support interpretation and reuse. License so others know what kinds of reuse are permitted

Research Data Management Plan

Data management plan (DMP) is a document that describes **how you will treat your data** during a project and **what happens after the project ends**

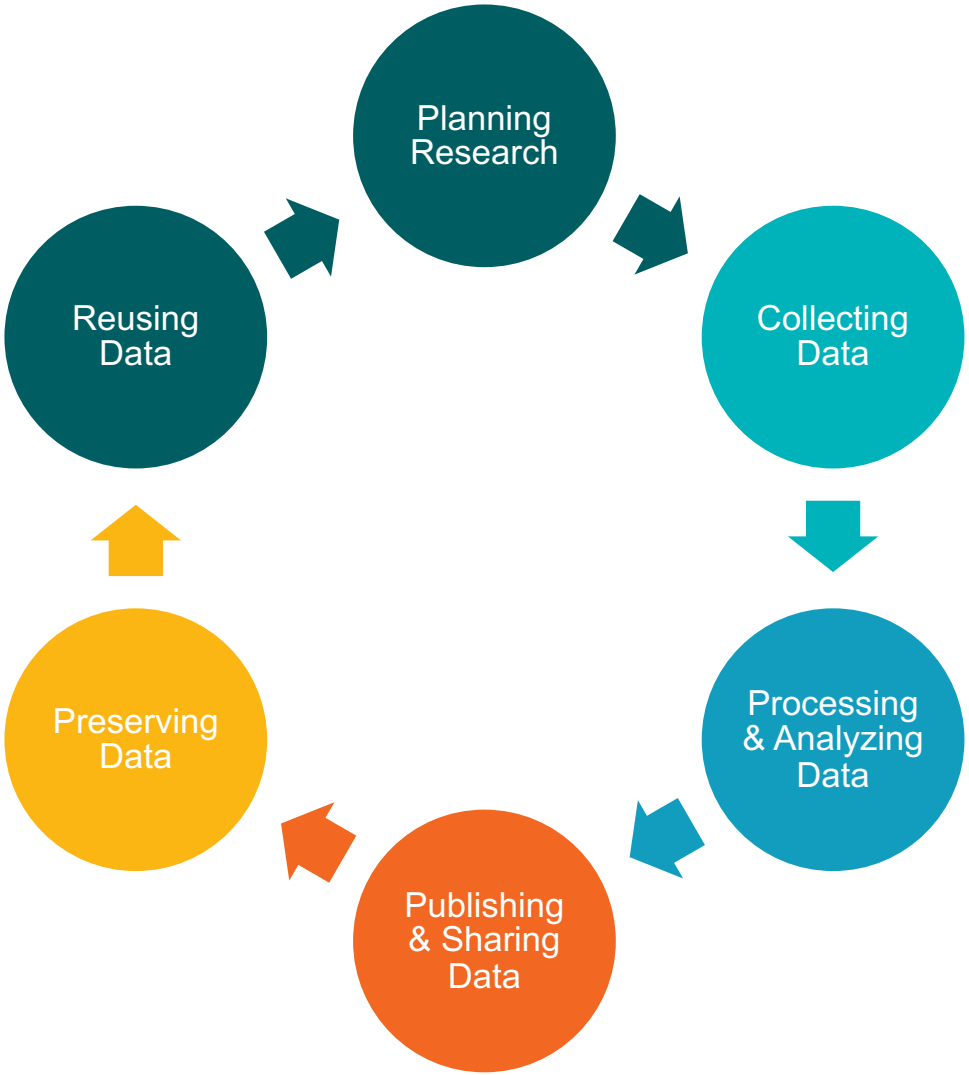
Typically covers all or portions of the **data lifecycle**

Research Data Management Plan



The Research Data Management Lifecycle

Where does the **Creation** of a Data Management Plan fall in the Data Management Lifecycle?



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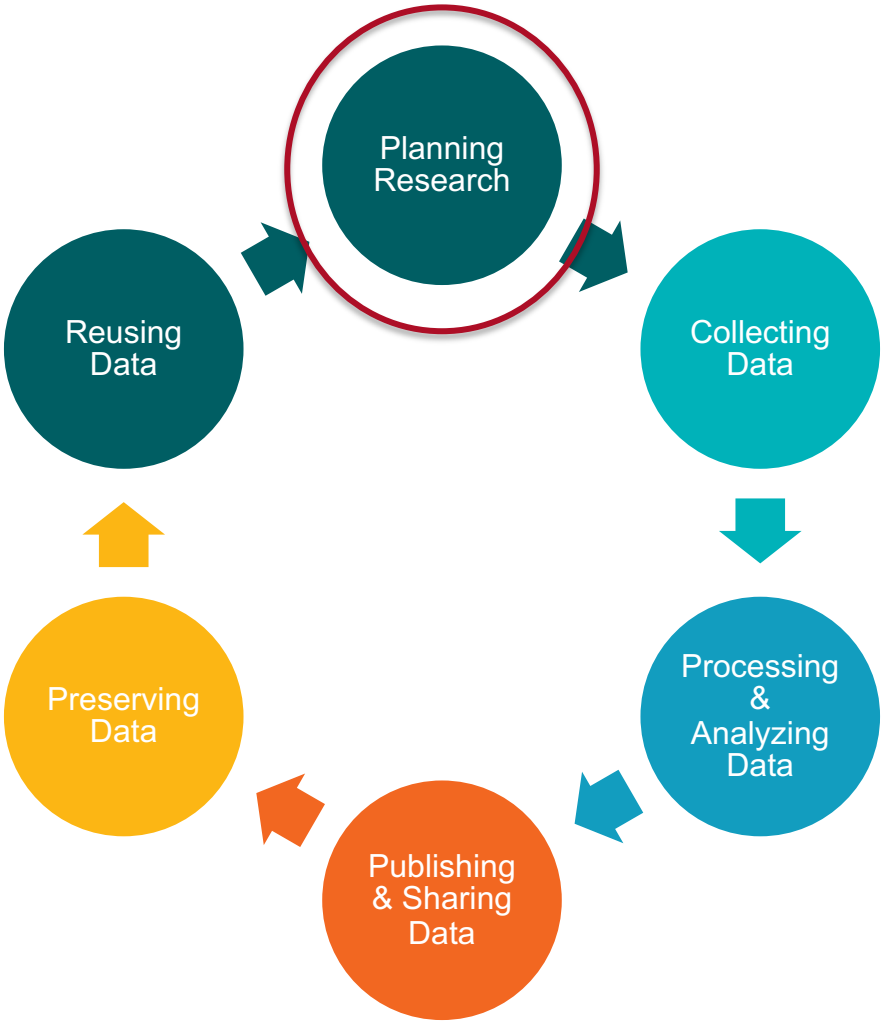
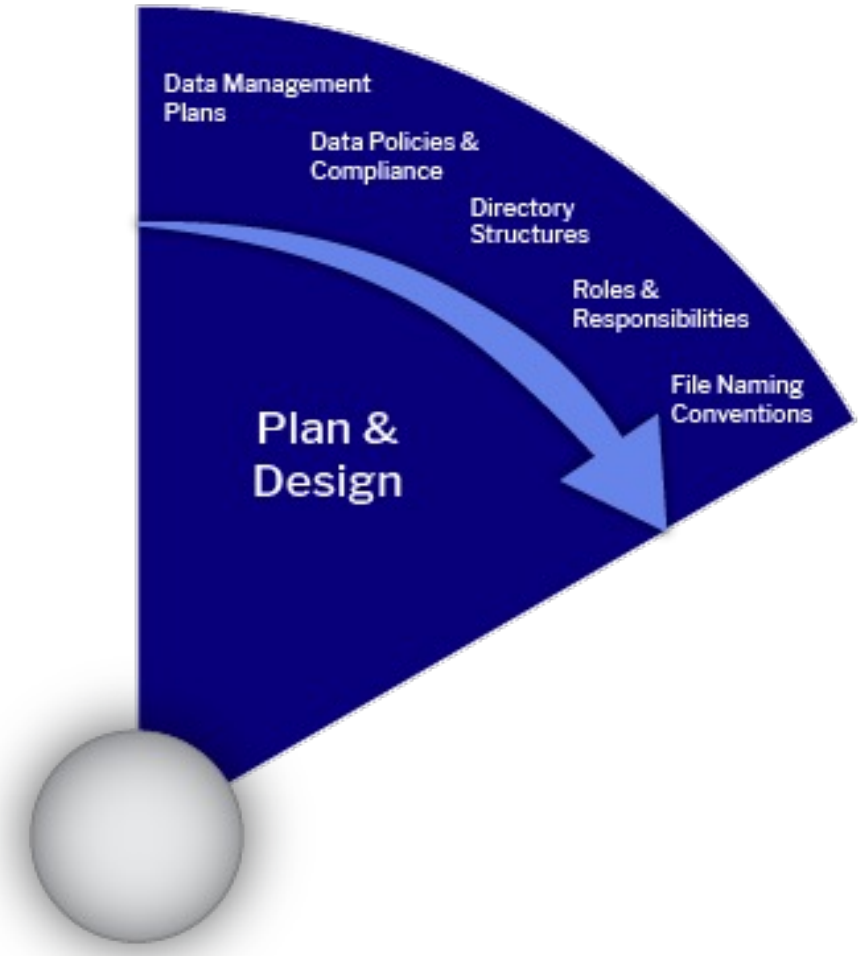
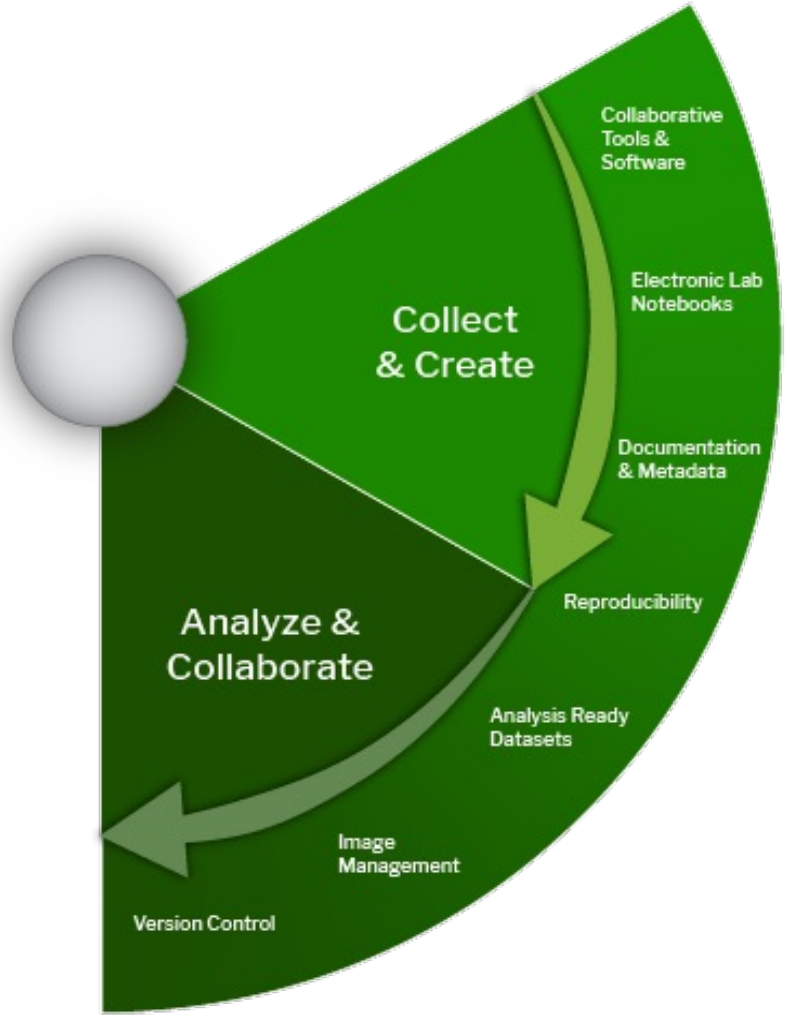


Research Data Management Checklist

Planning Research

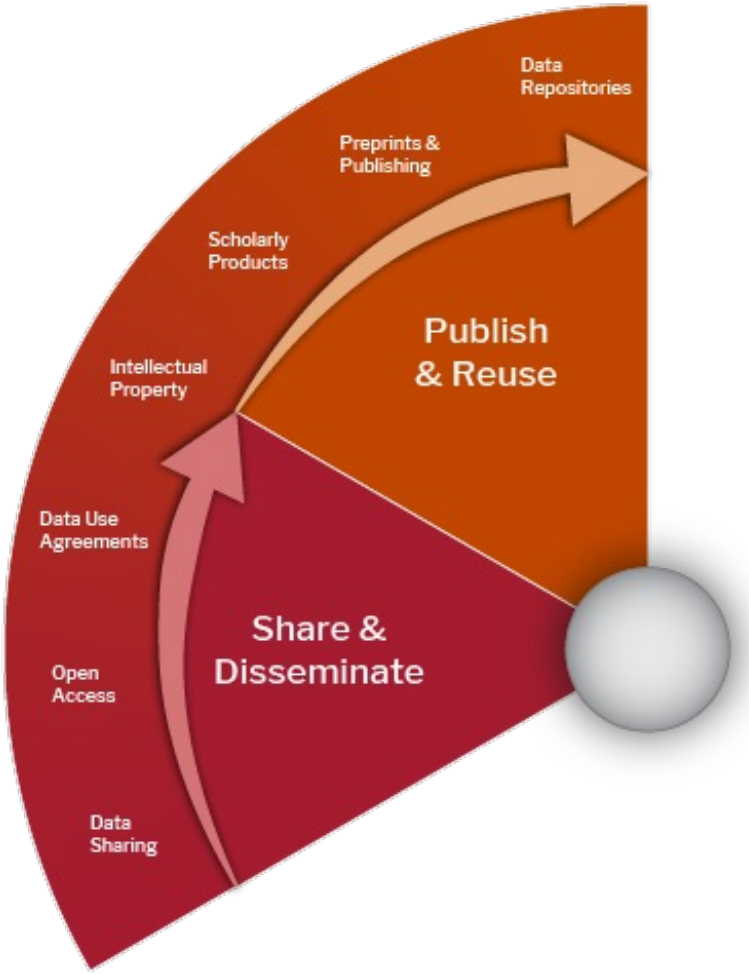


Collecting and Creating



Evaluate and Archive

Share and Reuse



Research Data Management Lifecycle

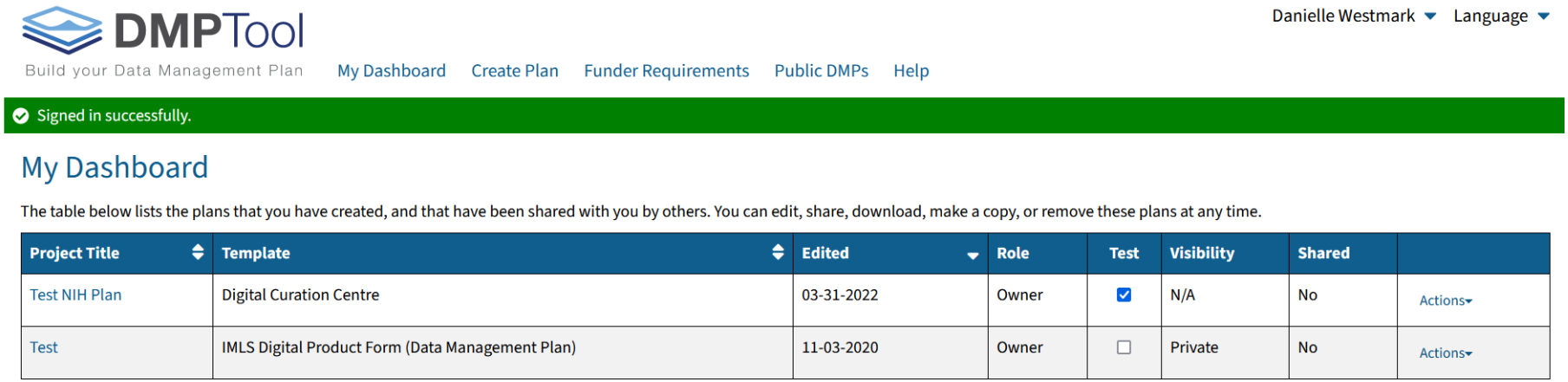
Other Best Practices

- Organizing Data
  - File Structure & Naming Conventions
  - Be Consistent
  - Be Descriptive
- Create a unique & persistent identifier (DOIs, ORCID, etc.)
- Data sensitivity

https://unmc.libguides.com/rdm

Data Management Plan Resources

DMP Tools: https://dmptool.org/



Additional Resources

- Article: Ten Simple Rules to Creating a Data Management Plan

Copyright & Citation

If your using data collected and published by others, it's important to cite to ensure that the proper credit is given to the original researcher, and so that readers can locate the original dataset

Review your citation style (APA, AMA, etc.) manual on how to cite/acknowledge datasets in a paper.

Questions?

Stay in touch!

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researchdata@unmc.edu

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Upcoming Events:
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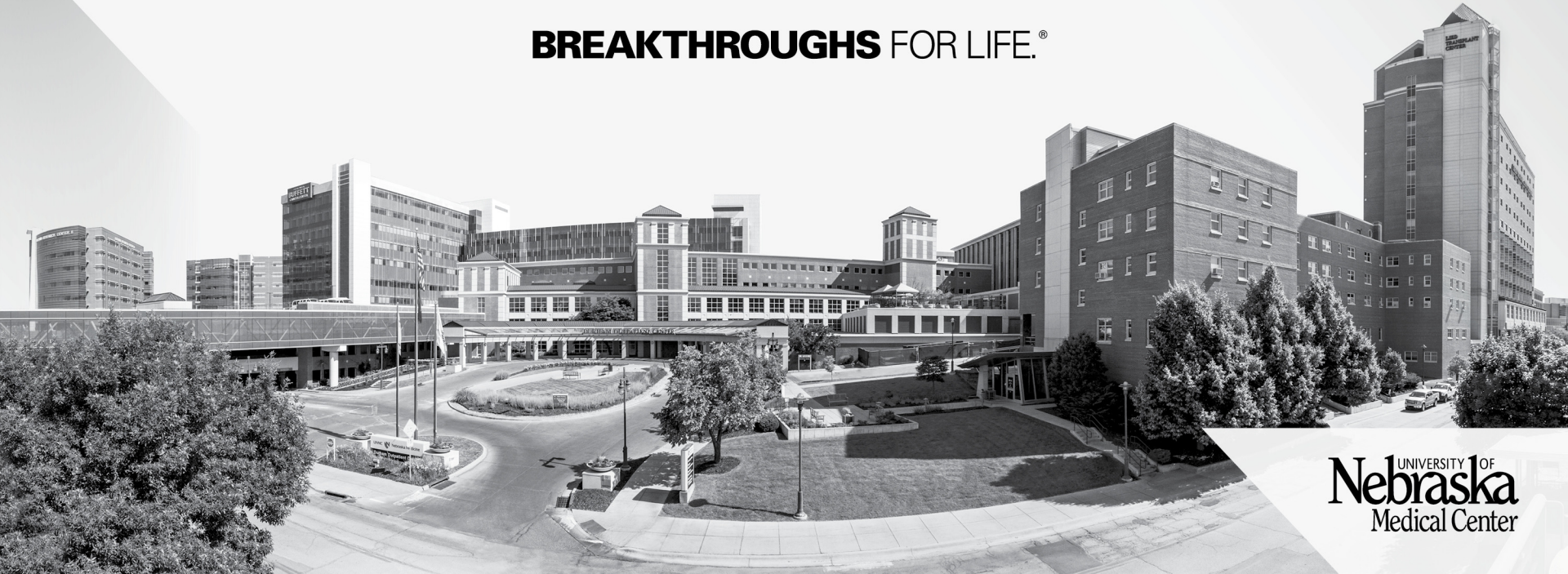

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