INTRODUCTION TO DATA MANAGEMENT PLANS (DMPS)

Data management plans (dmps) are crucial documents outlining how research data will be handled both during and after a project. They help ensure data integrity, accessibility, and compliance with funder or institutional requirements.

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PURPOSE AND IMPORTANCE OF DMPS IN SCHOLARLY RESEARCH

1.) Data Security - DMPs safeguard sensitive research data from unauthorized access or loss.

2.) Compliance - Ensuring adherence to ethical and legal standards for data collection and management.

3.) Resource Allocation - Optimizing resource allocation and facilitating collaboration among researchers.
COMPONENTS OF A COMPREHENSIVE DMP

• Data description
  • Thoroughly describe the types and formats of data to be collected or generated.

• Data storage
  • Specify the methods and locations for secure and accessible data storage.

• Data sharing
  • Detail how research data will be shared and with whom, considering licensing and privacy concerns.
CHALLENGES AND CONSIDERATIONS IN IMPLEMENTING DMPS

• Complexity
  • Dealing with the complexity of data storage, sharing, and legal factors.

• Resource constraints
  • Addressing the challenges of limited resources and specialized expertise.

• Cultural change
  • Overcoming resistance and promoting a culture of data sharing and management.
BEST PRACTICES FOR CREATING EFFECTIVE DMPS

- Engage stakeholders/PIs
  - Involve relevant stakeholders to ensure that all perspectives and requirements are considered.

- Document revision
  - Consider frequent revision of the DMP to adapt to evolving research needs and insights.

- Training and guidance
  - Provide researchers with training and guidance for effective DMP development and implementation.
TOOLS AND RESOURCES FOR DMP
CREATION AND MANAGEMENT

Data Management Software
- Specialized tools to organize, store, and share research data effectively.

Data Management Platforms
- Platforms designed to facilitate collaboration and compliance with data management requirements.

Cloud Storage
- Secure and scalable cloud storage solutions for research data.
DATA MANAGEMENT HELP FROM UL

- Review DMPs
- Assist in understanding data standards
  - NSF
  - NIH
  - NOAA/NASA
- Helping creating - varying levels of experience
- DMP Tool
University Library
OAKS

University libraries open access platform (KSU)

Link: https://oaks.Kent.Edu/
University Research Data Working Group

- University Libraries, Division of Research & Economic Development, Information Technology
- A research concierge service
- Help connecting to resources
- Information gathering resource
Conclusion and Key Takeaways

• Commitment to excellence
  • Emphasizing the value of maintaining high standards in research data management

• Continuous improvement
  • Encouraging ongoing refinement and adaptation of DMPs to enhance research efficiency.

• Community engagement

• Highlighting the role and benefits of engaging the research community in data management practices.