

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.

Dr. Michael Hawkins

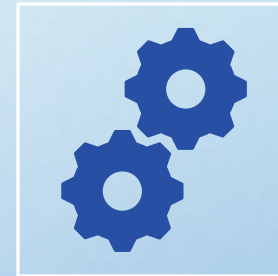
PURPOSE AND IMPORTANCE OF DMPS IN SCHOLARLY RESEARCH



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

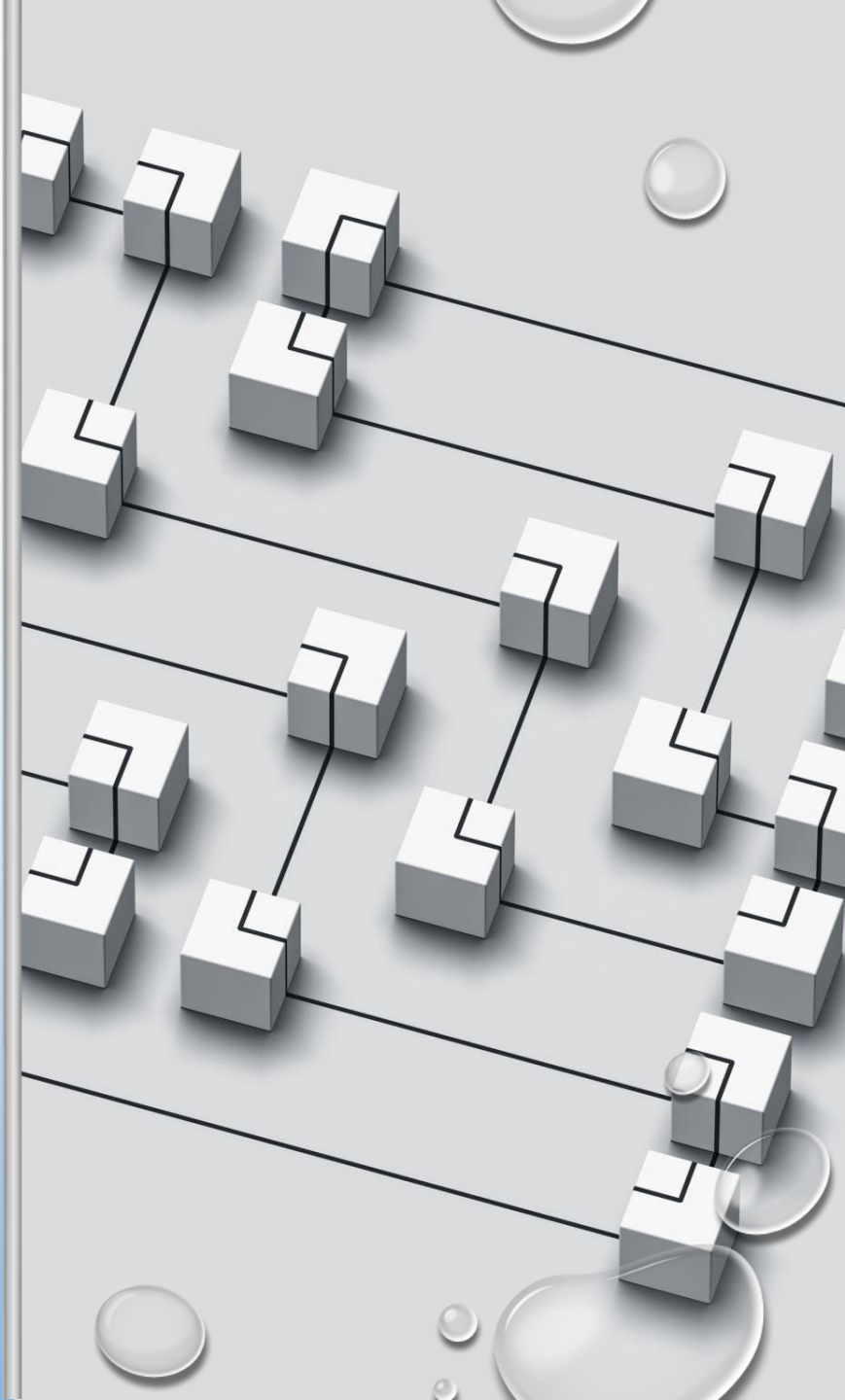


COMPONENTS OF A COMPREHENSIVE DMP

- 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.