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## Data Sharing Through Open Access Data Repositories

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A background graphic consisting of a network of interconnected nodes and lines. The nodes are represented by small circles in various shades of brown, tan, and grey, connected by thin, light-colored lines. The overall effect is a complex, web-like structure that suggests data connectivity and sharing.

# Data Sharing Through Open Access Data Repositories

KARIN BENNEDSEN, RESEARCH SUPPORT LIBRARIAN, KENNESAW STATE UNIVERSITY

# Why Learn About Open Data Repositories?

**NEW!**

## NIH Policy for Data Management & Sharing

**ATTENTION!**

New Data Management & Sharing Policy Effective  
**January 25, 2023!**



Worldwide trend toward open access requirements for obtaining research funding from government and private agencies

NIH's new DMSP requirements for all funding awards starts soon

NIH encourages following the FAIR (Findable, Accessible, Interoperable, and Reusable) data principles

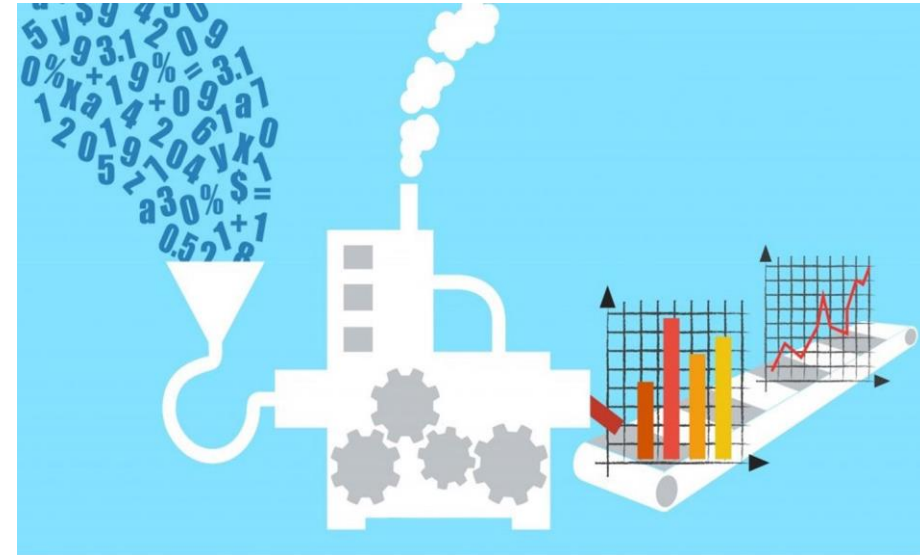
# What Kind of Data Does This Include?

## Scientific Data

"...data commonly accepted in the scientific community as of sufficient quality to validate and replicate research findings, regardless of whether the data are used to support scholarly publications."

## Metadata

Associated information, "i.e., data formats, data dictionaries, data identifiers, definitions, unique identifiers, and other data documentation."



```
dev@caillou:~$  
dev@caillou:~$ exiftool private.odt  
ExifTool Version Number : 9.46  
File Name : private.odt  
Directory : .  
File Size : 1544 kB  
File Modification Date/Time : 2014:08:07 16:24:23-04:00  
File Access Date/Time : 2014:08:07 16:18:20-04:00  
File Inode Change Date/Time : 2014:08:07 16:24:23-04:00  
File Permissions : rw-r--r--  
File Type : ODT  
MIME Type : application/vnd.oasis.opendocument.text  
Preview PNG : (Binary data 38428 bytes, use -b option to extract)  
dev@caillou:~$
```

# A DMSP Involves the Preservation, Access, and Associated Timelines for the Data

The name of the repository



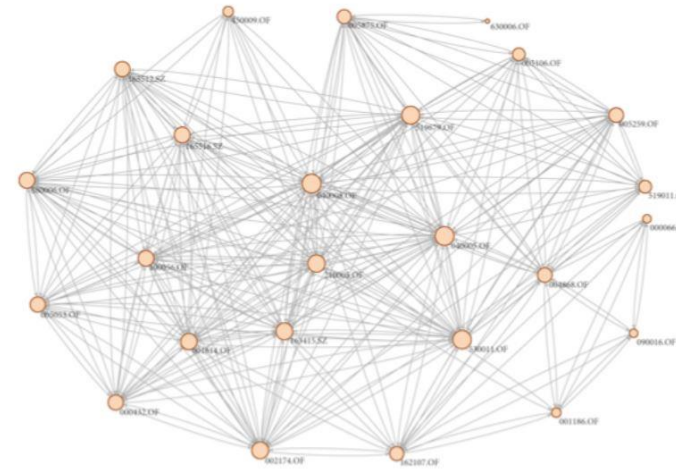
How data will be findable and identifiable

When data will be made available and for how long



# About Open Access Data Repositories

A database archive for collecting, disseminating, and preserving scientific data (including datasets and metadata) and making them freely available



Linked to institution/department



or research field/subject

# Selecting a Data Repository

## Desirable Characteristics of Data Repositories

- Unique Persistent Identifiers
- Long-Term Sustainability
- Metadata Accompanies Datasets
- Curation and Quality Assurance
- Free and Easy Access
- Broad and Measured Reuse
- Clear Use Guidance
- Security and Integrity
- Confidentiality
- Common Format
- Provenance of Datasets and Metadata Recorded
- Retention Policy



# Additional Considerations for Human Data

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Fidelity to Consent Documented Procedures  
Restricted Use Compliant  
Privacy Measures  
Plan for Breach  
Download Control  
Violations Procedures  
Access Request Review Process



# Data Repository Lists



NIH-supported [Scientific Data Repositories](#)

[FAIRsharing registry](#) - searchable portal of three interlinked registries, containing both in-house and crowdsourced manually curated descriptions of standards, databases and data policies



McMaster University Institute for Research on Aging [Open Access Data Repositories](#)



UC Santa Barbara Library [Open Access Repositories](#)



Open Access Directory - [Data repositories](#)



# Additional Resources/Tools

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KSU Library System [Open Access Research Guide](#)

[Digital Commons @ Kennesaw State University](#)

University of Central Florida Libraries [Open Access Research Guide](#)

[GO FAIR initiative](#)

[Open Data Handbook](#) - Guides, case studies and resources for government & civil society on the "what, why & how" of open data.

Harvard Longwood Research Data Management [Repository Comparison Guide](#)

[Data Curation Network Primers](#) - steps for curating specific data and file types



# References

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1. <https://sharing.nih.gov/data-management-and-sharing-policy>
2. <https://sharing.nih.gov/data-management-and-sharing-policy/data-management>
3. <https://sharing.nih.gov/data-management-and-sharing-policy/about-data-management-and-sharing-policy/research-covered-under-the-data-management-sharing-policy#after>
4. <https://sharing.nih.gov/data-management-and-sharing-policy/planning-and-budgeting-DMS/writing-a-data-management-and-sharing-plan#after>
5. <https://www.openaire.eu/where-can-i-read-more-about-fp7>
6. <https://sharing.nih.gov/data-management-and-sharing-policy/sharing-scientific-data/selecting-a-data-repository>
7. <https://www.hhs.gov/ohrp/index.html>

KSU Libraries Presents

# OPEN ACCESS WEEK

Connections &  
Intersections

October 24-28, 2022

