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MacOdrum Library

Research Data Management

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- **Why the Library?**
- **What is research data management?**
 - | Its benefits
 - | Its key components
- **Research data management plans**
- **Tools**

- **Research data management**
 - | aka RDM
 - | aka data management
 - *aka DM*

- **Research data management plan**
 - | aka RDMP
 - | aka data management plan
 - *aka DMP*

- **Why the Library?***
 - | Research partner
 - | Support the research endeavor
 - | RDM expert
 - | Partner with CU Research Office
 - | The scholarly life-cycle
 - | Discipline-agnostic

- **Our role***

- | Information
- | Consultation

- **Challenge***

- | Determine how we can help researchers advance their research

*Source: Rambo, October 2015

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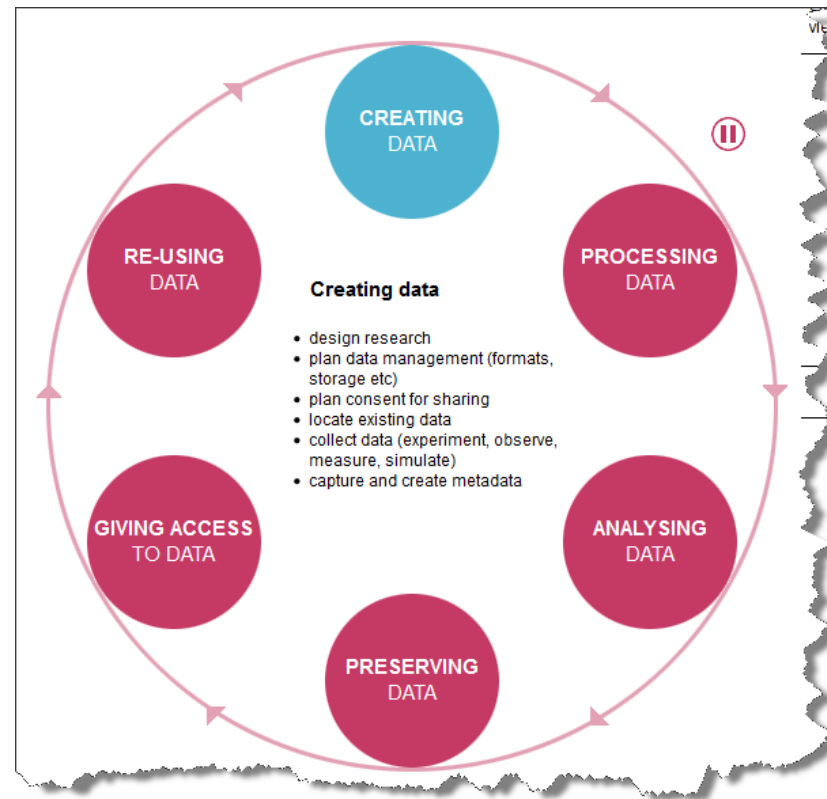
- **Why are research data important?**
- **Sharing research data**



- **What is it?**

- **Includes**
 - | Sound practices
 - | Data curation
 - | Data stewardship

Research data lifecycle



Creating data

- design research
- plan data management (formats, storage etc)
- plan consent for sharing
- locate existing data
- collect data (experiment, observe, measure, simulate)
- capture and create metadata

Processing data

- enter data, digitise, transcribe, translate
- check, validate, clean data
- anonymise data where necessary
- describe data
- manage and store data

Analysing data

- interpret data
- derive data
- produce research outputs
- author publications
- prepare data for preservation

Preserving data

- migrate data to best format
- migrate data to suitable medium
- back-up and store data
- create metadata and documentation
- archive data

Giving access to data

- distribute data
- share data
- control access
- establish copyright
- promote data

Re-using data

- follow-up research
- new research
- undertake research reviews
- scrutinise findings
- teach and learn

- **Benefits of RDM**
 - | Confirmation of original findings
 - *Essential if defending your research*
 - | Further research
 - | Teaching
 - | Planning follow-up studies

- **Why is it important now?**



- **Need an RDMP**

- **Why an RDMP**
 - | Safety
 - | Efficiency
 - | Quality

- **If no RDMP?**
 - | Potential problems

- **Elements of an RDMP***
 - | Funder and data description
 - | Data collection
 - | Documentation and metadata
 - | Storage and backup
 - | Preservation
 - | Data sharing and re-use
 - | Responsibilities and resources
 - | Ethics and legal compliance



Some tips

- **Mark it down!**
- **It is not written in stone!**
- **Easy!**

- **Help with RDM**

- | <https://library.carleton.ca/services/research-data-management>
- | Consultations

- **Help with RDMPs**

- | Portage, <https://assistant.portagenetwork.ca/>
- | Word template, <https://library.carleton.ca/services/research-data-management#how>

- **Where to put your data**

- | Dataverse

Still don't believe me?

- **What could happen if you don't practice good RDM?**

<https://www.youtube.com/watch?v=N2zK3sAtr-4#t=17>

- **Hopefully, you now know**
 - | Why the Library is here to help you
 - | What RDM and RDMPs are
 - *Their benefits*
 - *Their key components*
 - *Some helpful tools*

- **DMP Assistant: Portage network**

<https://portagenetwork.ca/>

- **Our webpage**

<https://library.carleton.ca/services/research-data-management>

- **UK Data Archive Research Life Cycle**

<http://www.data-archive.ac.uk/create-manage/life-cycle>

- **Rambo, Neil (October 22, 2015). “Research data management roles for Libraries” .**

<http://www.sr.ithaka.org/publications/research-data-management/>

- **Shorish, Yasmeen (November 23, 2015). “The Library as Research Partner”. ACRL TechConnect Blog.**

<http://acrl.ala.org/techconnect/post/the-library-as-research-partner>

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