

# Research Data Management

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# Draft Tri-Agency Data Management Policy

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In June 2018, The Tri-Agencies (CIHR, NSERC and SSHRC) released a Draft RDM policy, for public consultation, with anticipated launch in Spring 2020.

**Institutional requirement:** “Each institution administering tri-agency funds is **required to create an institutional research data management strategy.**”

## Researcher Requirements:

**Data Management Plans:** The agencies encourage grant applicants to **complete data management plans (DMPs)** as an essential step in research project design.”

**Data Deposit:** “**Grant recipients are required to deposit into a recognized digital repository** all digital research data, metadata and code that directly support the research conclusions in journal publications, pre-prints, and other research outputs that arise from agency-supported research.”

# Current Requirements

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**The Tri-Agency Statement of Principles on Digital Data Management** outlines expectations of researchers, with the aim of promoting good data management practices.

**The Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (2018)** outlines ethical principles that ensure ethical conduct of research.

# Current Requirements

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**SSHRC' Research Data Archiving Policy requires that** "All research data collected with the use of SSHRC funds must be preserved and made available for use by others within a reasonable period of time."

SSHRC considers "a reasonable period" to be within two years of the completion of the research project for which the data was collected."

Deposit requirements do not mean the data have to be open to the public to view. Any recommended repository will allow for 'dark' deposit.

# Current Requirements

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**CIHR requires researchers to** "Deposit bioinformatics, atomic, and molecular coordinate data into the appropriate public database (e.g. gene sequences deposited in GenBank) immediately upon publication of research results."

Researchers must "Retain original data sets for a minimum of five years after the end of the grant (or longer if other policies apply). This applies to all data, whether published or not."

**Note:** Adhering to the Tri-Agency policies does not make your research OCAP compliant.



# Data Management Planning

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Portage Network offers the **DMP Assistant**, a bilingual tool for preparing data management plans (DMPs). The tool follows best practices in data stewardship and walks researchers step-by-step through key questions about data management.

- Institutional Template or Portage Template
- Specific questions that guide your planning
- Portage's forthcoming Indigenous Data Template

# Data Deposit & Discovery: Repositories

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## National/General Repositories:

- Federated Research Data Repository
- The Dataverse Project

## Domain-Specific Repositories:

Reputable, discipline-specific repositories already exist in many research domains.

- Re3data.org

## Local Repositories:

### University of Manitoba

- Mspace
- UM Dataverse

### University of Winnipeg

- Winnspace

# University of Manitoba: Data Deposit & Discovery: **Repositories**

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Dataverse  
- Image  
redacted.



Ckan – Image  
redacted.



# University of Manitoba: Data Deposit & Discovery: Ecosystem

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WestGrid –  
Image redacted.

OSF – Image  
redacted.

OJS – Image  
redacted.

Dataverse –  
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**DSPACE**

Ckan – Image  
redacted.



Datacite – Image  
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Scholars Portal –  
Image redacted.

Archivematica –  
Image redacted.

# Reminders/Key Points

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- Thoughtfully and comprehensively complete a Data Management Plan regardless of a mandate or not:
  - Work with a librarian who will answer questions, act as a guide/navigator to other resources in the university that you will need to address in your plan
  - Budget for RDM (short and long-term storage costs, in-kind contributions,, etc.)
- Expect/seek collaboration:
  - More funders expect utilization of existing infrastructure resources, not paying for ‘reinvent the wheel’; ask those questions of your IT support for hardware/software (and be prepared you may need to go beyond your institution)
  - Account for it – licensing and/or stewardship issues may put hard parameters on how/if you can share resources, data etc.
- Lots of things are in flux – be flexible, adaptable
  - Issues like long term preservation does not have a definitive answer
  - An ask to deposit does not mean everything/anything – know there is room to accommodate

# Workshop

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1. What **types of data** will you collect, create, link to, acquire and/or record? Examples: numeric, images, audio, video, text, tabular data, modeling data, spatial data, instrumentation data.
2. **How and where will your data be stored** and backed up during your research project? How will the research team and other collaborators access, modify, and contribute data throughout the project?
3. How will you ensure that it is **securely managed and accessible** only to approved members of the project? Consider where, how, and to whom sensitive data with acknowledged long-term value should be made available, and how long it should be archived.
4. Where will you deposit your data for **long-term preservation** and access at the end of your research project?
5. What steps will be taken to help the **research community know that your data exists**? What documentation will be needed for the data to be read and interpreted correctly in the future?

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