Research Data Management: National and Institutional Updates

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J. Brodeur brodeur brodeujj@mcmaster.ca
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Partnerships and Projects

Meet Canada's scientists and professionals

Canadian High Arctic Research Station

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Health Canada: Centre for Vaccine Evaluation

Science and Technology Data

Research Funding Collaboration

> Co-operative Funding Programs

Policies and Guidelines

Open Access Selecting the Appropriate Federal Granting Agency

Research Ethics

Responsible Conduct of Research

Tri-Agency Statement of Principles on Digital Data Management

1. Preamble

The Canadian Institutes of Health Research (CIHR), the Natural Sciences and Engineering Research Council of Canada (NSERC), and the Social Sciences and Humanities Research Council of Canada (SSHRC) (the agencies) are federal granting agencies that promote and support research, research training, knowledge transfer and innovation within Canada.

As publicly funded organizations, the agencies are strong advocates for making the results of the research they fund as accessible as possible. In promoting access to research results, they aspire to advance knowledge, avoid research duplication and encourage reuse, maximize research benefits to Canadians and showcase the accomplishments of Canadian researchers. These aspirations align with the Government of Canada's commitment to open science, as described in Seizing Canada's Moment: Moving Forward in Science, Technology and Innovation (2014).

Research data include observations about the world that are used as primary sources to support scientific and technical inquiry, scholarship and research-creation, and as evidence in the research process. Research data are gathered through a variety of methods, including experimentation, analysis, sampling and repurposing of existing data. They are increasingly produced or translated into digital formats. When properly managed and responsibly shared, these digital resources enable researchers to ask new questions, pursue novel research programs, test alternative hypotheses, deploy innovative methodologies and collaborate across geographic and disciplinary boundaries. The ability to store, access, reuse and build upon digital research data has become critical to the advancement of science and scholarship, supports innovative solutions to economic and social challenges, and holds tremendous potential for Canada's productivity, competitiveness and quality of life.

Dublic Communications



Overview

- 1. Summary of the *Statement*
- 2. Implications for researchers & institutions: What comes next?
- 3. Building capacity to support research data management

Tri-Agency Statement of Principles on Digital Data Management:



Expectations

- Data management planning
- Metadata
- Constraints and obligations
- Preservation, retention and sharing

Adherence to standards

> Timeliness

Collection and storage

- Acknowledgement and citation
- Efficient and cost-effective



Tri-Agency Statement of Principles on Digital Data Management:



Responsibilities

Researchers

- -incorporating best practices
- -developing DMPs
- -adhering to policies and standards

Research Funders

- -developing policies & guidance
- -promoting data management

Research Institutions

-providing access to resources

-creating guidance and policies

-supporting best practices

-providing peer reviewers

Research Communities

- -developing & promoting standards
- -fostering excellence
- -selecting repositories

So, what does it mean? What comes next?

What it means; what comes next



- Statement of Principles as a framework / roadmap
 - No new mandates or requirements
- Agencies are working on developing policies
 - SSHRC pilot projects underway | CIHR pilot planned for 2016
- Strong interest in approaches adopted in other nations
 - US, UK, AUS, NL [Data management plans; data repositories]
- ♦ Institutional RDM policy development
- ♦ GoC: Draft New Plan on Open Government 2016-2018















Research Data Management

Building Capacity to Support



Research Data Management is...

... the active organization & maintenance of data

... the application of best practices to ensure data security, accessibility, usability, and integrity

... a set of activities resulting in self-describing data sets that can be discovered and reused.





RDM capacity development at various scales

Institutional

Provincial / National

International





















What are researchers' data management obligations?

What challenges do researchers face in managing their data?

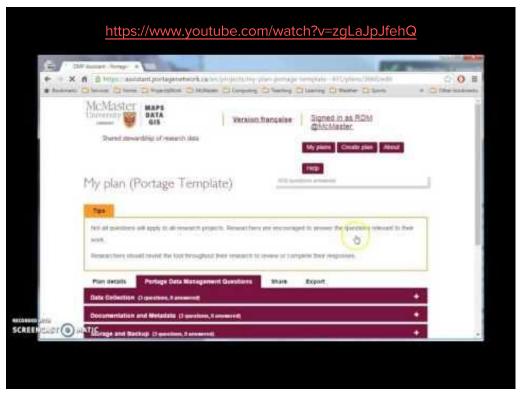
How can the library help researchers address their data management needs?



Portage DMP Assistant



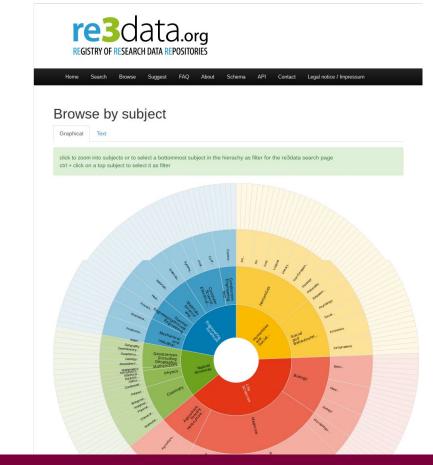
- A web-based, bilingual data management planning tool.
- Available to all researchers in Canada.
- A guide for best practices in data stewardship.
- Exportable data management plans.





re3data.org

Registry of research data repositories

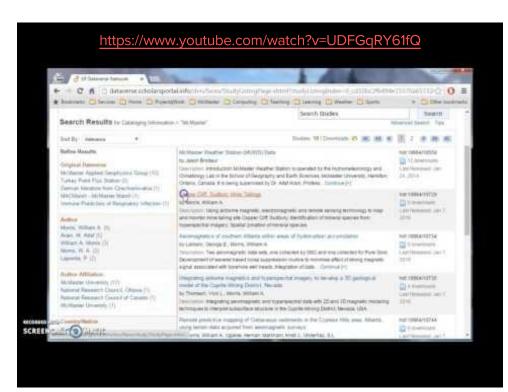




Scholars Portal Dataverse



- A data repository for researchers at Ontario's universities.
- An online platform to share, preserve, cite, explore and analyze research data.
- Allows researchers to control how they share their data.
- Supports data DOI registration through Datacite Canada.



http://dataverse.scholarsportal.info/dvn/



More Information

https://portagenetwork.ca/ - CARL Portage Network page: RDM information and access to DMP Assistant

 $\underline{\text{http://www.science.gc.ca/default.asp?lang=En\&n=83F7624E-2}} \text{ - Statement of Principles on Digital Data Management}$

 $\underline{\text{http://library.mcmaster.ca/rdm}} - RDM@McMaster\ homepage$

http://www.re3data.org/ - Registry of research data repositories

http://dataverse.scholarsportal.info/dvn/ - Scholars Portal Dataverse

Thank You.



Check out http://library.mcmaster.ca/rdm for more information Contact us at rdmgmt@mcmaster.ca