Data Management Policy Development and Funding: Context and Prospects

2nd Canadian Polar Data Workshop

May 31, 2017

POLICY BACKGROUND

2013 - 2015

- Capitalizing on Big Data: Toward a Policy Framework for Advancing Digital Scholarship in Canada

- Tri-Agency Working Group

- Community Engagement

- Advisory Committee

- Environmental Scan

2016

- Tri-Agency Statement of Principles on Digital Data Management

STATEMENT OF PRINCIPLES ON DIGITAL DATA MANAGEMENT

Outlines the Agencies' overarching expectations with regards to research data management, and the roles and responsibilities of researchers, research communities, research institutions and research funders in meeting these expectations.

Does not include mandatory requirements.

Aims to establish a common set of principles that will serve as the basis for the development of data management requirements that the Agencies will establish collectively or individually.

CIHR IRSC
Canadian Institutes of Health Research
Instituts de recherche en santé du Canada

NSERC CRSNG

SSHRC CRSH

Draft Tri-Agency Research Data Management Policy

- For consultation

- Feedback will inform final policy

- Proposed policy includes 3 possible requirements:

    1. Institutions: Institutional Strategy

    2. Researchers: Data Management Plans

    3. Researchers: Data Deposit

- Implementation: Phased, incremental

DRAFT DATA MANAGEMENT POLICY

1. Institutions: Institutional Strategy

- Each institution administering Tri-Agency funds could be required to create an institutional research data management strategy. The strategy could outline how the institution will provide its researchers with an environment that enables and supports world class research data management practices.

- The strategy could be posted and made publicly available on the institution's website, with contact information to direct inquiries about the strategy.

DRAFT DATA MANAGEMENT POLICY

2. Researchers: Data Management Plans

- Grant recipients could be required to create data management plans (DMPs) for research projects supported wholly or in part by Tri-Agency funds. Grant recipients could submit these plans to their institution's research office as a condition of the release of grant funds.

- For specific funding opportunities, the agencies could require DMPs to be submitted to the appropriate agency at time of application; in these cases, they may be considered in the adjudication process.

DRAFT DATA MANAGEMENT POLICY

3. Researchers: Data Deposit

- For all research data and code that support journal publications, pre-prints and other research outputs that arise from agency-supported research, grant recipients could be required to deposit these data and code in an appropriate public repository or other platform that will ensure safe storage, preservation, curation, and (if applicable) access to the data.

ENGAGING THE COMMUNITY

- Canadian Association of Research Administrators (CARA) May 8-10
- Congress of the Humanities and Social Sciences (May 27-June 2)
- Research Data Canada
- Leadership Council for Digital Research Infrastructure (June 27)
- Research Data Alliance September 2017 (Montreal)
- Canadian Association of Research Libraries (CARL)
- Funding agency colleagues across the Americas and Europe, European Commission, NSF, ESRC, DFG, ANR
- Federal Interdepartmental Group on Open Science
- Indigenous associations and networks

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FUNDING

Tri-Agency

- Data management: an eligible expense under Tri—agency funding program terms and conditions

- Networks and large projects supported: Astronomy, Large Hadron Collider, IPY, Canada First Research Excellence Fund, and Climate Change and Atmospheric Research Program

CFI

- Cyberinfrastructure Initiative: Supports research data infrastructure projects that create tailored, shared and integrated data resources (e.g. databases and data repositories) capable of enabling leading-edge research on significant scientific, social & economic questions

MINISTERIAL CONSIDERATIONS

Leadership Council on Data Research Infrastructure

- Commissioned by Minister of Science to develop an overview of issues facing the Digital Research Infrastructure in Canada

- Focus includes:

    - Compute

    - Data management

    - Coordination

- 3rd Digital Research Infrastructure Summit – June 27, Toronto

Discussion

Tri-agency Policy

- *What are the key issues barriers for institutions and researchers?*

- *What are particular issues for the Polar data community?*

Funding

- *What are the specific polar data funding issues that need to be addressed?*