

# McMaster Research Data Forum 2018

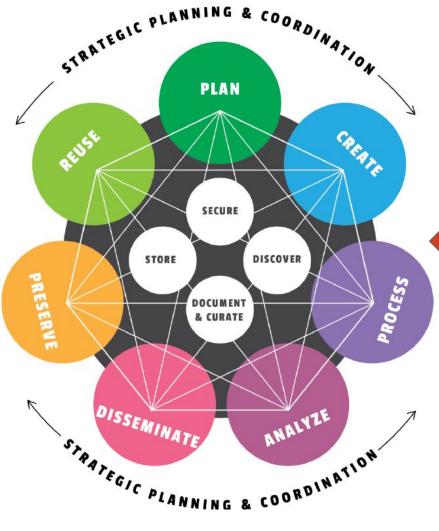
Common Challenges, Shared Solutions

**Research data** are contents that are used as primary sources to support research, scholarship, artistic activity or research-creation, and that are used as evidence in the research process and commonly accepted in the research community as necessary to validate research findings and results.

Canadian Tri-Agency

**Research Data Management** refers to the storage, access and preservation of data produced from a given investigation. Data management practices cover the entire lifecycle of the data...include: file naming data quality control and quality assurance; data access; data documentation

CASRAI



### Research Data Management

is the active organization & maintenance of data throughout the

research data lifecycle to ensure its security, accessibility, usability, and integrity

Courtesy: Leadership Council for Digital Research Infrastructure (LCDRI)
Data Management Position Paper, 2017-08-31

### Applying RDM best practices benefits...

# Researchers and their collaborators

- Improves research efficiency and productivity
- Provides extra credit for research work
- ♦ Increases research impact
- ♦ May help to meet funding requirements

# Research Communities

- ♦ Accelerates discovery
- ♦ Enables validation and verification

# Funders, governments and the public

- ♦ Improves return on investment
- ♦ Increases research transparency
- ♦ Data as a public good



Tri-Agency Statement of Principles on Digital Data Management <a href="http://www.science.gc.ca/default.asp?lang=En&n=83F7624E-1">http://www.science.gc.ca/default.asp?lang=En&n=83F7624E-1</a>

# Tri-Agency Statement of Principles on Digital Data Management: Expectations

- Data management planning
- Constraints and obligations
- Adherence to standards
- Collection and storage

- Metadata
- Preservation, retention and sharing
- Timeliness
- 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 Communities**

- developing & promoting standards
- fostering excellence
- selecting repositories

#### **Research Institutions**

- supporting best practices
- providing access to resources
- creating guidance and policies

#### Research Funders

- developing policies & guidance
- promoting data management
- providing peer reviewers

### **Draft Tri-Agency RDM Policy**

Tri-Agency draft data management policy<sup>1</sup> — June, 2018

- Applies to grant recipients and institutions administering tri-agency funds.
- June-Sep, 2018: consultation period; feedback to inform policy

#### 3 pillars:

- 1. **Institutions**: Institutional Strategy
- 2. **Researchers**: Data Management Plans
- 3. Researchers: Data Deposit

Phased and incremental implementation

<sup>1</sup> http://www.science.gc.ca/eic/site/063.nsf/eng/h\_97610.html [shortened: https://bit.ly/2OsJB8w]

### Invited Panelists (in alphabetical order)

Krysha Dukacz - Data Manager, McMaster Global Water Futures

Dr. Lawrence Grierson - Associate Professor, Family Medicine

Dr. Antonio Paez - Professor, School of Geography and Earth Sciences

Dr. Ranil Sonnadara - Director, RHPCS; Special Advisor to the VP Research

**Dr. Michael Veall** - Professor, Economics

### **Discussion Questions**

- 1. Briefly describe a research project that you are currently undertaking--how are you managing data for that project, and what are the biggest data-related challenges that you face? (5 minutes)
- 2. How might the pending Tri-Agency Research Data Management policy affect your work? What questions do you have about the policy and its implementation? (5 minutes)
- 3. What opportunities exist at McMaster to better support researchers' data management needs? (5 minutes, time permitting)