NDSF 2019

Kanata Declaration

Final Version - March 7, 2019
Attendees of the 2019 NDSF Summit

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Declaration

The Kanata Declaration[1] reflects a broad consensus from the Research Data Management (RDM) community on priorities for the data management component of the emerging DRI Strategy. The intended targets are Innovation, Science and Economic Development (ISED), as well as decision makers and participants in the broader research community.

Recognize that the researcher is the focal point for this conversation and their needs are central to the design and delivery of services and resources; that creative, researcher-centric engagement, with adequate supports for participation, enriches the open science community.

Recognize the public good of data in Canadian and international research and society, and the impact on the quality of life and well being of all Canadians; the imperative to innovate in this space to ensure the future viability, integrity, and stability of Canadian RDM assets, and their availability for reuse; the importance of international engagement and leadership of Canadians as a prerequisite for building capacity and confidence in research.

Recognize that research and scholarship are becoming more data intensive; that data is a valuable asset that should be effectively managed to preserve and enhance its value; that impact and innovation come from ground level initiatives, supported nationally to leverage common objectives, approaches, systems, knowledge, and tools.

Recognize that the National Data Services Framework is not just about infrastructure, but fundamentally about people and institutions, as well as a sustainable process and policy framework to encourage and support best research practices, with an ongoing funding role at the national layer of the RDM ecosystem.

Highlight some of the key gaps and opportunities identified from the NDSF 2019 discussion:
1. Architecture

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[1] This initial version of the 2019 NDSF Summit Declaration was drafted by combining key gaps and opportunities identified during the Summit Breakout sessions. Priorities highlighted during the National Training Meeting (held on Jan 22) and the CANARIE RDM Workshop (held on Jan 23), which intersected with items from the Summit discussions, were also incorporated into this version.

a. Development/support for a common data brokerage system that allows datasets to be aggregated from disparate platforms & locations into new integrated datasets.
   b. Diagram and details of an agreed upon architecture showing national and local levels, and showing all platforms/tools/services
2. Data
   a. Promotion of a data review, and data Provenance quality assurance, as an integral part of the research process in understanding existing data.
   b. Agreement on a minimum common denominator for metadata description, such as ISO 19115, DataCite.
3. Services
   a. Sustainable support for data scientists and librarians to support researchers from all disciplines.
   b. Support for a sustainable framework of RDM education and training for researchers, ensuring researchers maintain autonomy in their respective areas/discipline, but at the same have access to, and are aware of best practices, tools, services.
   c. Sustainable support for existing and emerging platforms and services, including institutional and domain-specific repositories and services, while coordinating at the national level on data discovery, minimal metadata standards, APIs, etc.
4. Access & Interfaces
   a. Support for a Researcher Dashboard for RDM services, platforms and support at local, regional and national levels.
5. Rules
   a. Encourage participation of early-career researchers, including filling the gap in funding for secondary data use.
   b. Clarify and/or develop support (including financial) for RDM policy in all national and provincial research funding programs.
6. Governance
   a. Promote an incentive model that encourages participation by all researchers in all disciplines, and by institutional representatives of the allied services.
   b. Support the development of research data governance models and strategies in all institutions.

Resolve to ensure concurrent growth occurs in: capacity for RDM infrastructure and services; culture change in researcher adoption of RDM services; adoption of RDM services.

Resolve to ensure continuous dialogue among the diverse community of researchers, funders, users and service providers to build trust, understanding and consensus for the Canadian NDSF.

Resolve to move forward expeditiously to establish an integrated national DRI ecosystem that sustains, enhances, and advances Canada's capacity and impact in the global research and innovation community.

Resolve to identify and articulate sustainable ongoing support for "core infrastructures" in the DRI ecosystem.

Resolve to ensure that Indigenous data and traditional knowledge are part of the conversation and support for DRI, via specific working groups, and as an integral part of all activities in the ecosystem.

Resolve to protect the privacy and security of research data about human subjects, and develop a consistent consent framework as an integral part of all layers in the DRI ecosystem.

Commit to advancing open science through the establishment of a national data repository network defined by trusted certification of core repositories, and including a commitment to FAIR Principles, and long-term data stewardship.

Commit to developing national supports and funding for RDM training in all domains, throughout the entire research life cycle, and across all components of the ecosystem.

Commit to providing data management expertise and funding to ensure that proper support, curation, and stewardship services are available to researchers.

Commit to continuing to establish Canada as a leader internationally, working collaboratively with the international community in further development of the NDSF.

Call researchers to join as partners including the necessary awareness and training to ensure an informed direction forward.

Call together representatives from key stakeholder organizations to develop a high-level RDM Roadmap to help prioritize investment and development of DRI for research data management.[2]

Commit to reporting back to the NDSF participants, and the broader stakeholder community, via RDC, on the developments of the strategy for the support for RDM in Canada.

Supporting Materials

- RDC Zenodo Community
  - Includes all published material from the week's events, as well as other RDC publications.

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[2] This Call reflects the actions from the RDC Steering Committee meeting which immediately followed the NDSF Summit.

- [Research Data Management in Canada: A Backgrounder](#), (In Draft Form)
- 2019 National RDM Training Meeting (January 22)
  - [Notes and Next Steps](#)
- 2019 RDM Workshop (January 23)
  - [Background Document](#)
  - [Workshop Notes](#)
- 2019 NDSF Summit (January 24-25)
  - Background Document - [ENG](#) / [FRE](#)
  - [Breakout Notes](#)
- 2018 Colleges, Institutes, and Polytechnics RDM Workshop
  - [Notes and Next Steps](#)
  - [Workshop Package](#)

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[3] Summit participants provided their consent to be listed: Summit attendees are not included if we did not get their consent. If your name does not appear here, and you would like to be listed, please let Mark know - mark.leggott@rdc-drc.ca.

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