

STEPS TOWARD A DISTRIBUTED, GLOBALLY NETWORKED INFRASTRUCTURE OF REPOSITORIES IN CANADA

"Position repositories as the foundation for a distributed, globally networked infrastructure for scholarly communication, on top of which layers of value added services will be deployed" – *Confederation of Open Access Repositories (COAR) Next generation repositories statement*

In order to be successful, this vision requires collaboration, coordination and commitment across the repositories community at all levels (institutional, provincial, national and international).

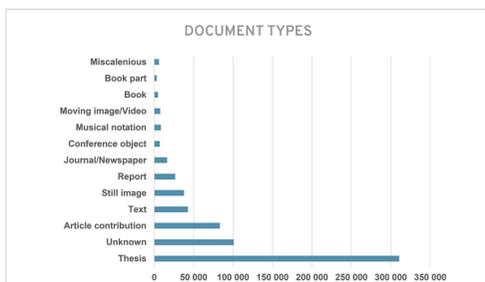
CANADIAN RESEARCH REPOSITORIES

In Canada, three national public funders (Tri-Agency), the Canadian Institutes of Health Research, the Natural Sciences and Engineering Research Council of Canada, and the Social Sciences and Humanities Research Council of Canada have policies affecting repository content development: *Tri-Agency Open Access Policy on Publications* (May 2015), *Tri-Agency Statement of Principles on Digital Data Management* (December 2016), *Draft Tri-Agency Research Data Management Policy* (public feedback until August 2018, launch in 2019).

- Canada has many content repositories including both scientific literature repositories and research data repositories.
- Few value added repositories exist:
 - Érudit.org, a non-profit publishing platform for Social Sciences and Humanities Publications;
 - Federated Research Data Repository (FRDR), specific to research data, sustained by CARL's Portage initiative and Compute Canada;
 - National Research Council's Digital Repository (in development);
 - Theses Canada, specific to theses and dissertations, sustained by Library and Archives Canada (currently *on hiatus*).

NUMBER OF CANADIAN REPOSITORIES INDEXED IN MAJOR REGISTRIES

SERVICE	# OF REPOSITORIES
OpenDOAR	85
Base	172
Re3Data	145
OpenArchives Data provider (.ca/)	45



- There is no concerted or deliberate coordination and alignment of policy and practices when it comes to activities like ingest collection policy, metadata standards, preservation standards, etc.
- Open access content is hard to distinguish from restricted or metadata-only entries.
- Electronic theses and dissertations are the largest collection.
- There is a need to standardize metadata across repositories (e.g. document type).

FOSTER COLLABORATIVE EFFORTS

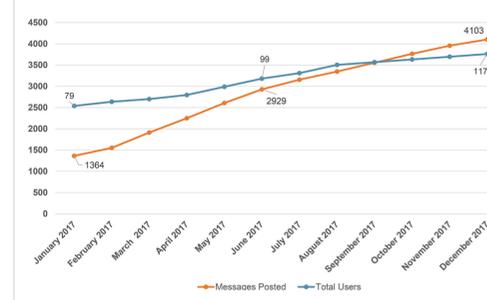
GRASSROOTS: BUILDING A COMMUNITY OF PRACTICE

The community came together during the fall of 2016 at a national repository managers' meeting.

Ideas for further actions were formulated during a 2016 open national forum "Where Next for Repositories?" sponsored by CARL in association with COAR:

- Adopt standards for repository usage data, and interoperability across Canadian repositories;
- Identify best practices for collection development;
- Look to develop a national aggregator;
- Develop strategies to demonstrate the value of repositories (e.g. track how they are being used, and for what purposes).

SCHOLARLY COMMUNICATIONS IN CANADA SLACK CHANNEL



Five community of practice calls in 2017

- Breaking the Ice: Introduce Yourself to the Community (online meet and greet)
- OA Week Brainstorm
- People Wearing all the Hats: Scholarly Communications in Small Institutions or on a Shoestring
- Creative Commons Summit Debrief and Copyright Discussion Call
- Using OpenRefine to Improve Repository Metadata

COHESIVE: CARL STRATEGIES

CARL has 29 Canadian university library members.

Advancing Research Committee (ARC) was formed in January 2016 to create a healthy, integrated scholarly communication environment to serve the interests of Canadian research, learning and scholarship.

Through ARC, and as part of its Strategic Directions 2016-2019, CARL supports the critical enabling role of libraries in research and scholarship (Strategic Directions 2016-2019), and plan to:

- Lead, develop, and deploy research data management initiatives;
- Foster new knowledge creation and sustainable scholarly communication, including open access, and foster the role of the library in publishing;
- Facilitate collaborations to create, acquire, share, and preserve Canada's research resources.

Acting nationally and coordinating internationally, as stated in CARL Scholarly Communication Roadmap (January 2017) to:

- Increase awareness and engage stakeholders about the benefits of open access and the need for change;
- Lower the economic barriers to the creation and dissemination of academic publications;
- Expand the types of research outputs that contribute to the formal scholarly communication system.

CARL has taken lead as a cohesive force to stimulate collaboration and commitment across the repositories community at all levels (institutional, provincial, national and international).

OPEN REPOSITORY WORKING GROUP (ORWG)

- Created by CARL in January 2018.
- 2-years agenda: 2018-2019.
- Members are repositories experts as well as library directors.
- Strengthen and add value to the network of Canadian open access repositories by collaborating more closely and adopting a broader range of services such as assessment and usage measures.

- Pragmatic approach:
 - Consolidate the network of repositories in Canada;
 - Focus on a proof of concept for the vision;
 - Connect content repositories with value added repositories (OpenAIRE).

ORWG goal is not to address sustainability or governance issues of a distributed, globally networked infrastructure (Scholarlycommons.net, 2,5% commitment, etc.).

- Encourage and support the existing community of practice and engage in other community-building activities as needed.
- Monitor and promote the adoption of next generation repository functionalities in Canada.
- Study and implement best practices and tools for repositories.
- Ensure Canadian repositories are integrated into other global services (Canadian pilot of the OpenAIRE "Aggregator as a Service").

- Develop a plan for adoption of the OpenAIRE Guidelines by institutions.
- Communicate and provide recommendations to Canadian institutions about participation in the project.
- Work with Portage to develop a Canadian approach for linking research data to publications.

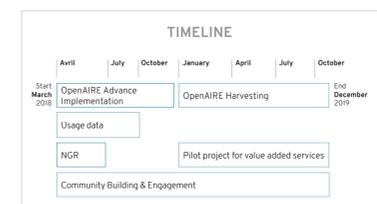
- Gather information from the community that outlines priorities for work that will strengthen the repository landscape in Canada.
- Develop ideas and initiatives that promote community-building for the repository community.
- Gather strategic information from the repository community to advance specific projects that will enhance repository programs in Canada.
- Ensure that the entire (CARL and non-CARL) repository community in Canada has been made aware of the ORWG projects and given an opportunity to provide input.

- Study the various options available (platform services and/or standard approaches).
- Report on findings and make recommendations for Canadian repositories.

- Evaluate current repositories in Canada against the next generation repositories (NGR) report to understand the gaps.
- Monitor international activities in NGR repository platform developments.
- Consider any "low hanging fruit" that can be adopted immediately and make recommendations to the Canadian community.
- Showcase good examples of NGR features/functionality in repository platforms.

DELIVERABLES AND ACHIEVEMENTS

- Members split into task groups around four themes: Statistics, OpenAire Advance, Policies, Next generation Repositories.
- Detailed feedback was provided on OpenAire Literature Repository Guidelines version 4 (OLRG).
- Engagement with community of practice through community calls (french and english).
- Draft of an implementation guide to OLRG in Canada.
- Organize a Webinar on NGR "Everything You Ever Wanted to Know about Next Generation Repositories But Were Afraid to Ask".
- Discussion with representatives from Library & Archives Canada about the current state and future plans for thesis harvesting and preservation.
- Prioritizing NGR functionality to work on.



ORWG MEMBERS

Geoff Harder, Associate University Librarian, University of Alberta (co-chair); **Martha Whitehead**, Vice-provost (digital planning) and University Librarian, Queen's University, and ARC member (co-chair)

Ann Barrett, AUL, Scholarly Communications & Head of the Kellogg Library, Dalhousie University; **Lise Brin**, Program Officer, Canadian Association of Research Libraries; **Amy Buckland**, Head, Research & Scholarship, University of Guelph; **Brian Cameron**, Digital Initiatives Librarian, Ryerson University Library and Archives; **Andrea Kossavic**, Associate Dean of Libraries, Digital Strategy and Engagement, York University; **Pierre Lasou**, Bibliothécaire – Communications savantes, Université Laval; **Lynne McAvoy**, Chief, Federal Science Library; **Tomasz Neugebauer**, Digital Projects & Systems Development Librarian, Concordia University; **Brian Owen**, Associate Dean of Libraries, Library Technology Services & Special Collections; **Simon Fraser**, University, and ARC member; **Tim Ribaric**, Digital Services Librarian, Brock U; **William (Will) Kirk Roy**, Digital Repository Scholarship Specialist, University of Waterloo Library; **Kathleen Shearer**, Executive Director, COAR; **Catherine Steeves**, Vice-Provost and Chief Librarian, Western University, and ARC member; **Michael Vandenburg**, Associate University Librarian, Queen's University, Leah Vanderjagt, Head, Digital Repository and Research Data Management Services, University of Alberta; **Mita Williams**, Scholarly Communications Librarian, University of Windsor.