Research Data Management – Approaches to Capacity Building by Acting Locally While Thinking Nationally

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RDM Service Development
Act locally, think nationally
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@taliachung #IATUL2017
Introduction

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Population: 36 million (2016)

10 provinces & 3 territories

Provincial governments = $ education, incl. universities

Federal government = $ large portion of publicly funded research at universities
Outline

Frameworks for RDM services and competencies
University of Ottawa (uOttawa)
Canadian Association of Research Libraries’ Portage Network
Concluding thoughts
Frameworks for RDM services and competencies

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OCLC RDM Service Space Framework [Bryant, Lavoie, Malpas & OCLC, 2017]

COAR Librarians’ Competencies Profile for Research Data Management [Schmidt & Shearer, 2016]

Developments in RDM in Academic Libraries [Cox, Kennan, Lyon & Pinfield, 2017]

ARL SPEC Kit, RDM Services [Fearon, Gunia, Pralle, Lake, Sallans & ARL, 2013]
# Service categories: OCLC

## OCLC

**Education services:** Raising awareness of the general scholarly interest in ensuring that research data is available for future use in order to document, replicate and build on published findings.

Services are not specific to any specific research project.

**Expertise services:** Offering customized solutions to individual research problems. These services tend to be individualized and closely match the stage of the research project (just-in-time services); often to solve specific data management problems encountered.

**Curation services:** RDM Curation services offer the technical functionality needed to manage datasets throughout the research life cycle, subject to local policy requirements. The scope of curation services will vary from institution to institution.
University of Ottawa

Quick facts:

Enrolment = 42,000 approx, 6,500 at the graduate level

Programs = +450 in 10 faculties, w programs in both French & English

Ranking in top 10 research intensive universities in Canada

Building uOttawa Library’s RDM services

2011 uOttawa strategic plan to move up in research university rankings & impact

Strategy for discipline specific approach to research support

Draft policy for RD stewardship jointly prepared by OVPR’s office & library
Benchmarking uOttawa RDM service development

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uOttawa Library is right in the middle of the pack when benchmarking against recent studies.

Service offerings are similar to what has been reported in the literature [Cox et al., 2017], [Fearon et al., 2013].

Capacity & competency issues are similar to what is reported in other academic libraries around the world [Cox et al., 2017], specific challenges: data curation, data description (metadata support), preservation and subject-specific research lifecycle knowledge.
Service categories: OCLC + uOttawa

<table>
<thead>
<tr>
<th>OCLC</th>
<th>uOttawa</th>
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<tbody>
<tr>
<td><strong>Education services</strong></td>
<td>● Educating</td>
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<td>● Developing general learning resources</td>
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<td><strong>Expertise services</strong></td>
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<td>● Supporting access to data requiring privacy restrictions</td>
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Canadian Association of Research Libraries’ Portage Network

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The Portage Network

Portage Expert Groups

Data Management Plan Expert Group
Preservation Expert Group
Data Discovery Expert Group
Curation Expert Group
Research Intelligence Expert Group
Training Expert Group
## Service categories: OCLC + uOttawa + Portage

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<td></td>
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<td>Educating</td>
<td>Creates tools &amp; templates used to instruct on DMP preparation.</td>
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<td>Advocacy</td>
<td>Identifies data management training needs; develops training resources.</td>
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<td>Developing general learning resources</td>
<td>Advocacy and policy development at institutional &amp; national level.</td>
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<td>Promote reusable data sources</td>
<td>Brings together research on RDM issues to reflect the “state of the art” of RDM for benchmarking, assessment and policy development.</td>
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# Service categories: OCLC + uOttawa + Portage

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</table>
| **Expertise services** | Advisory service for:  
- Sources of data,  
- Analysis techniques, such as data mining & visualization,  
- Citation and IP,  
- Storage options. | Develops tools & templates for DMP preparation for specific projects (DMP Assistant).  
Identifies curation tools to connect in-research data flows to preservation workflows.  
Undertakes initiatives to demonstrate the importance of good metadata in data discovery. |
## Service categories: OCLC + uOttawa + Portage

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<tr>
<td><strong>Curation services</strong></td>
<td>Assigning unique identifiers, such as DOIs.</td>
<td>Providing access to a data repository.</td>
<td>Developing technical functionality:</td>
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<td></td>
<td>Supporting access to data requiring privacy restrictions.</td>
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<td>(i) DMP Assistant, a data management planning tool.</td>
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<td>(ii) Curation tools for managing in-research data flows.</td>
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<td>(iii) Preservation infrastructure/repository.</td>
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<td>(iv) Discovery systems to optimize discovery and reuse of data.</td>
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Concluding thoughts

Symbiotic relationship between Portage and individual university libraries.

A model of collective and collaborative action at scale.

But...

Need to better understand service frameworks, in particular for multidisciplinary and international collaborative research,

Assessment of services relative to demonstrated need at individual universities, and

End of life for services & infrastructure, sustainability and portability of infrastructure & contents?
References


Questions?

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Grazie! Danke!
Merci! Thank you!

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