

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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#IATUL2017

Introduction

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 problem.

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

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

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OCLC	uOttawa
Education services	<ul style="list-style-type: none">• Educating• Advocacy• Developing general learning resources• Promote reusable data sources
Expertise services	Advisory service for: <ul style="list-style-type: none">○ Sources of data○ Analysis techniques, such as data mining & visualization○ Citation and IP○ Storage options
Curation services	<ul style="list-style-type: none">• Assigning unique identifiers, such as DOIs• Providing access to a data repository• Supporting access to data requiring privacy restrictions

Canadian Association of Research Libraries' Portage Network

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

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

Service categories: OCLC + uOttawa + Portage

OCLC	uOttawa	Portage
Expertise services	<p>Advisory service for:</p> <ul style="list-style-type: none">• Sources of data,• Analysis techniques, such as data mining & visualization,• Citation and IP,• Storage options.	<p>Develops tools & templates for DMP preparation for specific projects (DMP Assistant).</p> <p>Identifies curation tools to connect in-research data flows to preservation workflows.</p> <p>Undertakes initiatives to demonstrate the importance of good metadata in data discovery.</p>

Service categories: OCLC + uOttawa + Portage

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

Concluding thoughts

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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

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Questions?

Grazie! Danke!

Merci! Thank you!



uOttawa

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