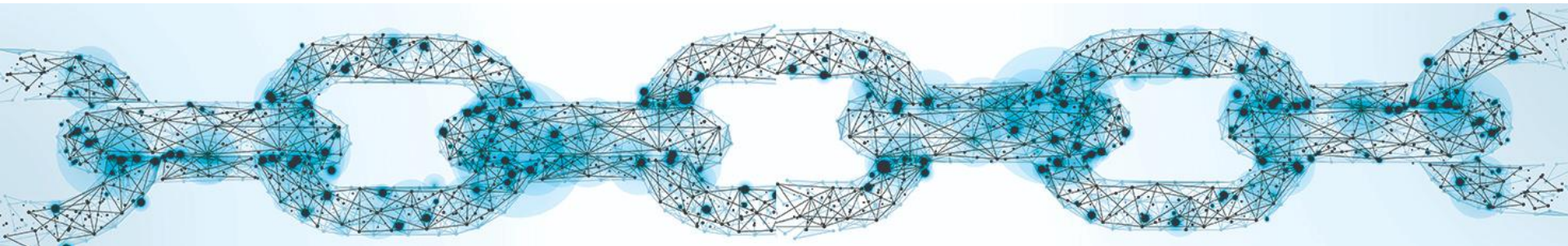


# Digital Preservation: Local Problems, Networked Solutions



Lisa Goddard  
AUL Digital Scholarship  
University of Victoria Libraries  
PRRLA 2019, Seoul



University  
of Victoria

# Digital Preservation Partnerships



REGIONAL

compute | calcul  
canada | canada



NATIONAL



University  
of Victoria

CAMPUS



University  
of Victoria

Libraries

# Canadian Association of Research Libraries (CARL)

CARL Digital Preservation Working Group

Phase 1 Survey Report on Digital Preservation Capacity and  
Needs Among CARL Members

**Grant Hurley and Kathleen Shearer**

Survey subgroup members: Lise Brin, Alan Darnell, Corey Davis, Susan Haigh, Grant Hurley, Steve Marks, Michael Moosberger.

Finalized: December 12, 2018

## Policies

**All respondents indicated that they have, or are interested in, implementing a digital preservation policy at their institution. However, only 8 organizations (30%) have policies in place or are drafting a policy, while 18 (69%) have not.**

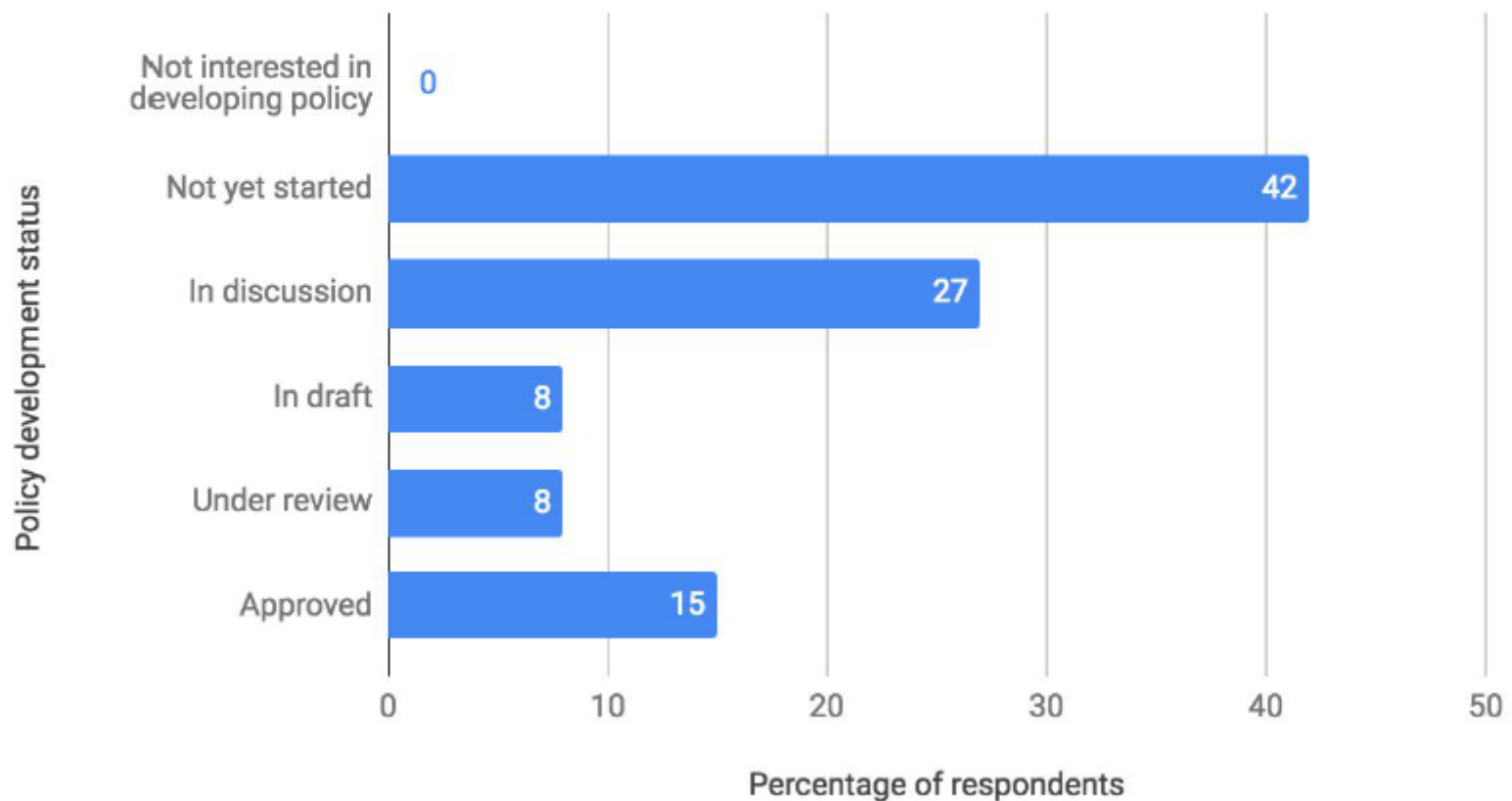


Figure 5: Status of policy development at respondent organizations by percentage of respondents.

## UVic Libraries digital preservation framework

### **Digital Preservation Working Group**

29 March 2017

#### Purpose

This document formalizes the University of Victoria Libraries' continuing commitment to the long-term preservation of a diverse and extensive range of digital assets under its care. It identifies high-level principles and priorities for implementing a digital preservation strategy in support of the Libraries' overall goals and strategic directions. Specific action plans for content groups capture policies specific to that group, and the processes, workflows, and tools that implement those policies.

#### What is digital preservation?

Digital preservation is the active management of digital content over time to ensure ongoing access.<sup>1</sup> It is a formal endeavor on the part of an organization to ensure that digital information of continuing value remains accessible and usable. Much more than just long-term storage, it involves a number of key activities, as well as building the organizational capacity to undertake them. These activities include:

1. Identification
2. Selection
3. Storing
4. Protecting
5. Managing
6. Providing access

# UVic Libraries Digital Preservation Framework

## High priority

- Electronic theses and dissertations
- High-risk physical holdings requiring immediate reformatting in Special Collections and University Archives
- Born-digital material held in Special Collections
- Institutional records held in University Archives
- Research data generated by UVic researchers and curated by the Library



# CARL 2018 Digital Preservation Survey

54% of respondents were able to indicate the amount of digitized content their organization stores. (p. 19)



# UVic Digital Asset Management Systems



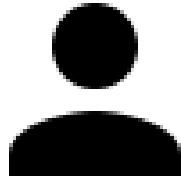
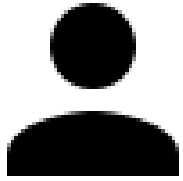


# CARL 2018 Digital Preservation Survey

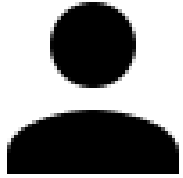
Most respondents do not have adequate staff devoted to digital preservation. (p. 16)

Few organizations have the equivalent of a full time individual for digital preservation, and fewer still have any one person with a sole responsibility towards preservation. (p. 22)

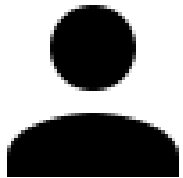




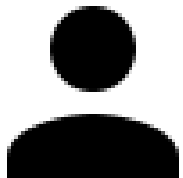
Programmers



Digital Preservation  
Librarian



Data Curation Librarian

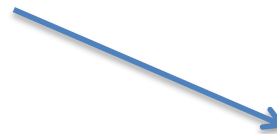
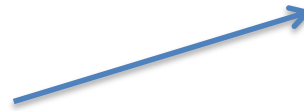


Head of Systems +  
Head of Metadata



AUL Digital Scholarship,  
Archivists, Schol Comms  
Librarian, Digitization Staff

# Local Digital Asset Management



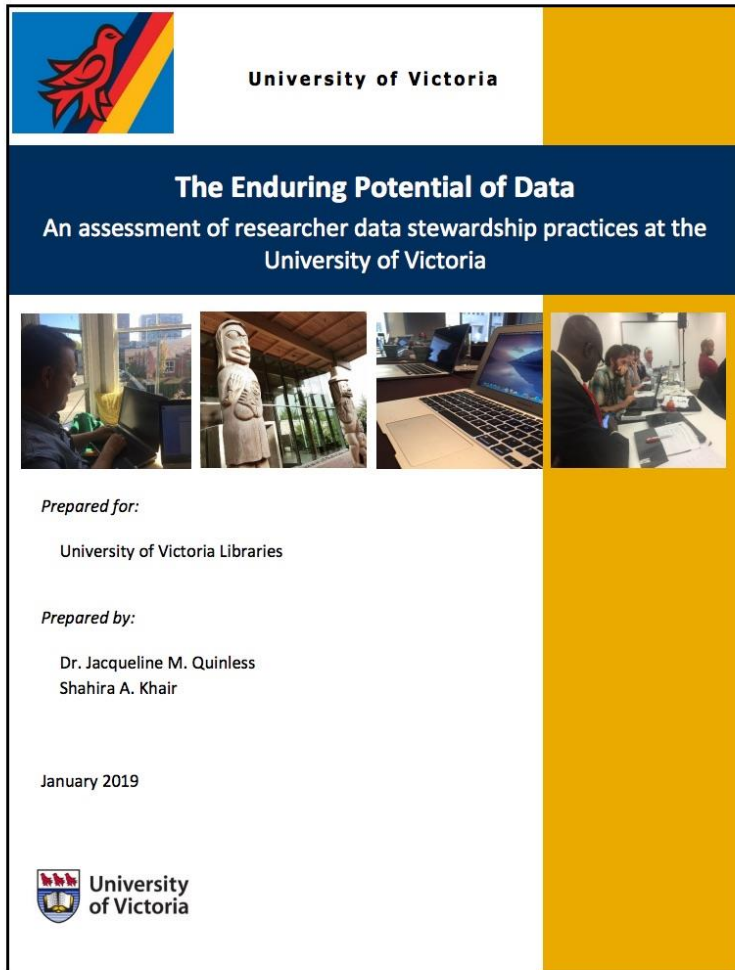
<http://vault.library.uvic.ca>

# Digital Preservation: Campus Partnerships



University  
of Victoria

# Campus RDM Survey



Survey responses from 420 faculty members and graduate students.

Identifies the major areas of challenge for researchers.

Recommends strategies for the library and for the university.

# UVic RDM Committee

Develop an institutional strategy for research data management:

- Research Office
- Libraries
- CIO
- Research Ethics Board
- Privacy Office



# The Endings Project @ UVic

Concluding, Archiving, and  
Preserving Digital Projects  
for Long-Term Usability



- SSHRC Insight Grant
- \$192,000
- 4 Years

# Endings Project - Preliminary Results

"I'm trained to be a researcher, not an archivist."

- Of 127 projects spanning 30 years:
  - 25% are considered to be "complete"
  - 10% have reliable long term archiving in place
- PIs want to follow best practices but are not trained, and institutional support is limited.
- A number of researchers approached their libraries, but were turned away.



# Grants Menu – Faculty Partnerships

Clearly outlines in-kind value of library services for faculty grant applications.

- Digital Asset Management
- Metadata Expertise
- Long Term Preservation Services



# Digital Preservation: Regional Partnerships



University  
of Victoria

# BCNET Data Backup Service



University of Victoria

# COPPUL WestVault LOCKSS Network



Five distributed copies of files.  
Automated integrity checks.


# Archivematica As a Service

Standard ▾   /home/courtney/archivematica-sa ▾

Type Transfer name Accession no.

Transfer	UUID	Transfer start time	
Memphis Jack files	55fd7dd2-48cb-463e-a625-1c41283e92e0	2013-04-29 13:43	
▶ Micro-service: Create SIP from Transfer			
Job: Create SIP(s) [?]		Awaiting decision	Actions ▾
Job: Load options to create SIPs		Completed successfully	Actions
Job: Check transfer directory for objects		Completed successfully	- Create SIP(s) manually
▶ Micro-service: Complete transfer			
▶ Micro-service: Characterize and extract metadata			
▶ Micro-service: Clean up names			
▶ Micro-service: Scan for viruses			
▶ Micro-service: Extract packages			
▶ Micro-service: Quarantine			
▶ Micro-service: Generate METS.xml document			
▶ Micro-service: Verify transfer checksums			
▶ Micro-service: Assign file UUIDs and checksums			
▶ Micro-service: Include default Transfer processingMCP.xml			
▶ Micro-service: Rename with transfer UUID			
▶ Micro-service: Verify transfer compliance			
▶ Micro-service: Approve transfer			
Job: Approve standard transfer		Completed successfully	
bug5008	39eca2f1-771d-4837-a809-d2fbc2577090	2013-04-29 12:16	

- Create SIP(s) manually
- Send to backlog
- Reject transfer
- Create single SIP and continue processing



# Digital Preservation: National Partnerships



University  
of Victoria

# Canadian Web Archiving Coalition

- Coordinates web archiving among university libraries
- Ensures that critical national & regional content is captured
- Develops long term strategy for preserving content in ArchiveIT



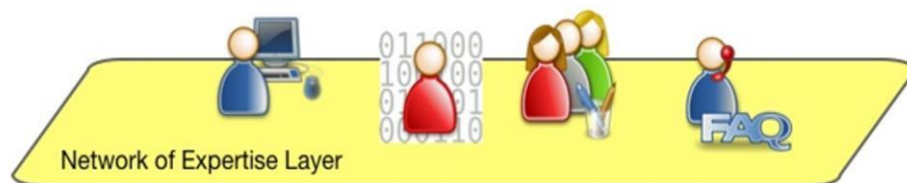
# CARL Digital Preservation WG

- Collects data & tracks DP progress among memory institutions
- Organizes knowledge sharing & training events





# Portage Network of Experts



- Pan-Canadian Research Data Management expertise with over 100 in-kind experts
  - Preservation Expert Group
  - Curation Expert Group
  - Repositories Working Group
  - Dataverse North Working Group

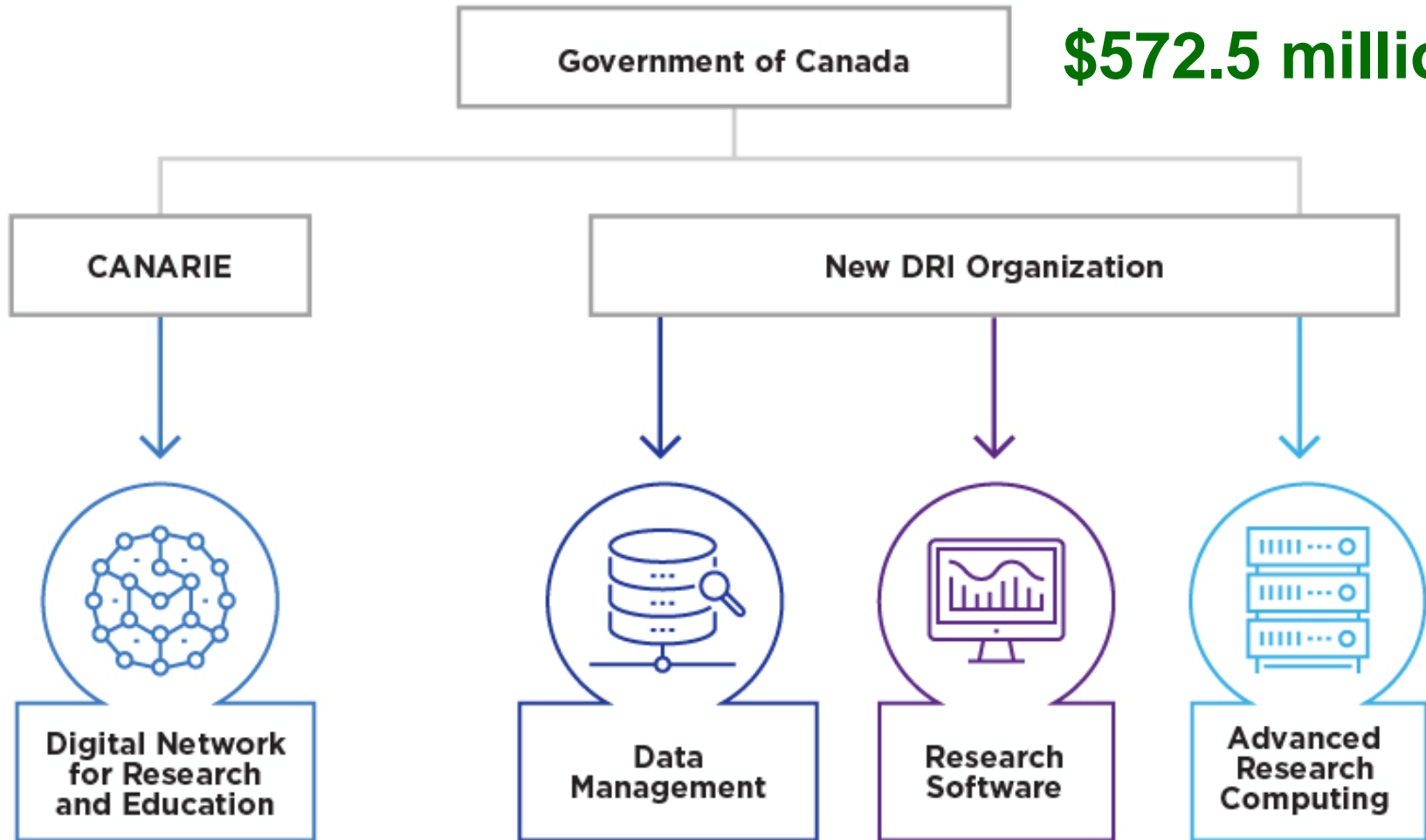


**COPPUL WestVault**

**Ontario Library Research Cloud**

# Digital Research Infrastructure Funding

**\$572.5 million**



# **CANARIE announces \$2M in funding to CARL Portage and its partners to strengthen Research Data Management ecosystem in Canada**

Posted on [August 27, 2019](#) in [Press Releases](#)

Funding supports researchers' access to critical data management tools and services that facilitate the reuse of research data

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**The ability for Canadian researchers to find and reuse research data accelerates discovery and innovation.**

[Ottawa, ON]

# Digital Preservation: Future Work

## Storage



Distributed, replicated cloud storage with audit tools.

## Expertise



Dedicated professional positions at local and national level

## Funding



Ongoing, long-term funding model.

# New Partnerships



Library and Archives  
Canada

compute | calcul  
canada | canada



**canarie**

Canada's Advanced Research and Innovation Network  
Le réseau évolué de recherche et d'innovation du Canada



Thank you.

[lgoddard@uvic.ca](mailto:lgoddard@uvic.ca)



University  
of Victoria