

Results of the CARL DPWG Survey of

Digital Preservation Capacity and Needs

at Canadian Memory Institutions

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Outline

- Introductions
- Goals/context
- Key findings
- Acknowledgements
- What's next?

Final Report of the Survey on Digital Preservation Capacity and Needs at Canadian Memory Institutions, 2017-18 Produced by Grant Hurley and Kathleen Shearer for the CARL Digital Preservation Working Group NOVEMBER 2019 Corresponding dataset DOI: 10.5683/SP2/8KLEPP

www.carl-abrc.ca

Who does this voice belong to?

- Born-and-raised New Brunswicker
- Plenty of graduate school at UBC
- Digital preservation support + services go-to person at <u>Scholars Portal</u> since 2016
- DPWG member since 2017



He/him pronouns

Twitter: @GrantHurley (semi-active)

www.granthurley.ca (occasional blog post)

Goals of the DPWG Survey

- Establish a clearer picture of the current state of digital preservation activities among memory institutions in Canada
 - Last similar surveys in Canada were conducted by <u>CHIN in 2011</u> and Allana Mayer in <u>2013/14</u>
- Identify gaps in capacity and needs at institutions
- Help inform future resource commitments, research projects, and opportunities for collaboration in Canada

Context

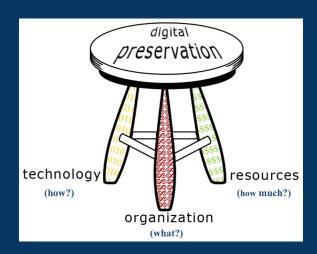
One definition of "digital preservation":

"The series of managed activities necessary to ensure continued access to digital materials for as long as necessary" (Digital Preservation Coalition, 2016)

Context

Inspired by Anne Kenney and Nancy McGovern's "three-legged stool" metaphor for digital preservation:

- Organization (commitment, policies, planning)
- Technology (hardware, software, networks)
- Resources (staff, skills, money)



Survey Timeline

- Summer 2017: Survey development
- October December 2017: Phase 1 CARL members
- August September 2018: Phase 2 broader set of Canadian memory organizations
- December 2018 January 2019: Updates from Phase 1 respondents

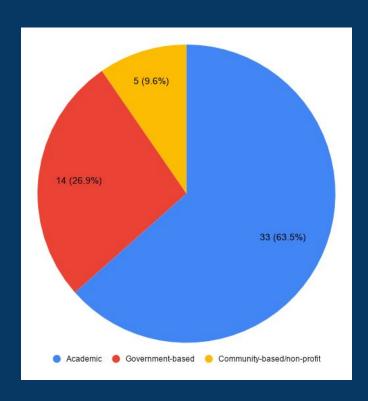
Reporting

- Presentation at <u>@Risk North 2</u> forum, November 2018
- Publication of <u>Phase 1</u> and <u>Phase 2</u> interim reports, December 2018
- Publication of final report (<u>English</u> & <u>French</u>) & <u>accompanying dataset</u>,
 November 2019

Respondents

52 respondents in total

- 26 academic CARL members (52%)
- 7 academic libraries not members of CARL (13%)
 - 33 respondents in total from the academic sector (63% total)
- 14 government-based organizations (25%)
 - o Includes 1 CARL member
- 5 community-based/non-profit organizations
 (10%)



Structure

- Collections
- Organizational commitment
- Policies/procedures
- Tools/applications
- Access
- Storage
- Funding
- Concluding questions
- Set of 'gaps and challenges' responses for key sections.

Okay, time for facts

All respondents have digital collections, and quite a lot of them

Collections

All respondents have digitized materials in their collections

94% are acquiring born-digital materials

 Those not acquiring born-digital materials: say they do not have preservation capacity

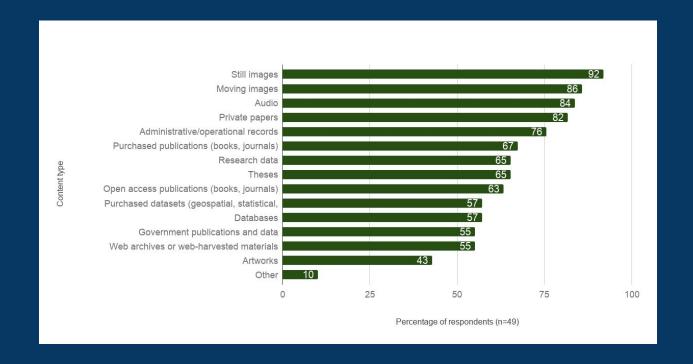
Collections

 The <u>median</u> amount of collections data in storage per respondent was 20 TB

- 45 respondents (87%) could give an approximate quantity of data in storage:
 - 0-10 TB (17 respondents)
 - o 10-100 TB (21)
 - o 100-400 TB (6)
 - o 3720 TB (1)

Collections

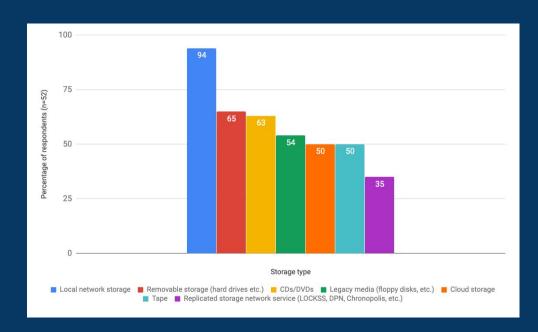
Content types in collections



In general, these collections are not being managed according to preservation-friendly practices

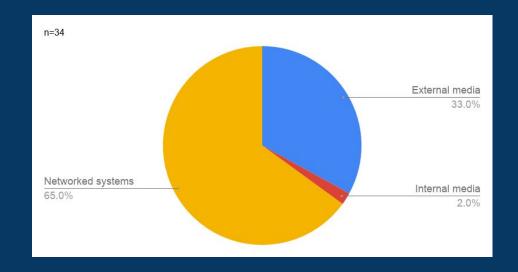
Storage

- Most respondents are relying on:
 - Local servers
 - External media (e.g. hard drives)
 - o CDs/DVDs
- 81% selected one of these
- 38% selected all three
- Fewer institutions are using preservation-friendly storage methods (cloud, tape, replicated networks)
 - 50% and below selected at least one of these as an option



Storage

- 33% of assets stored, on average, on external media like hard drives, disks, etc.
- 2% of assets on internal media, like a donor's personal computer
- 29% are using tools for digital forensics



Tools for Preservation

 21% of respondents overall are using any one tool for preservation processing in production

But 96% provide access to digital materials under their care

Problem: if you lose it, you can't provide access to it

Very few people are doing this work in Canada

Staffing

On average, staff with responsibilities for digital preservation represent 0.77% of all staff FTEs at respondent organizations

For every 100 staff members at an organization, less than 1 of them is supporting digital preservation work

Staffing

 38% of respondents have the equivalent of one full-time individual supporting digital preservation work across all staff listed with responsibilities in this area

18% have at least 1 full-time individual supporting digital preservation work

48% of roles listed had between 0 and 20% FTE assigned

Staffing

 48% (25 respondents) said they expected to increase staffing through new hires or reassignment

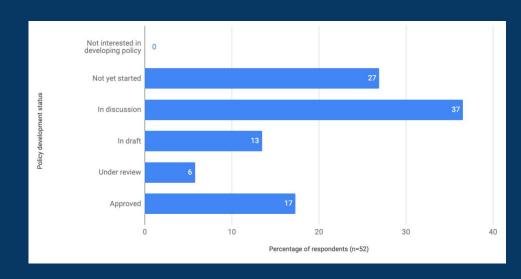
The following methods for increasing staffing were selected:

- Both new hires and assigning current staff (10 respondents, 40%)
- Reassigning current staff only (8, 32%)
- New hires only (7, 28%)

Policies and procedures are not being documented

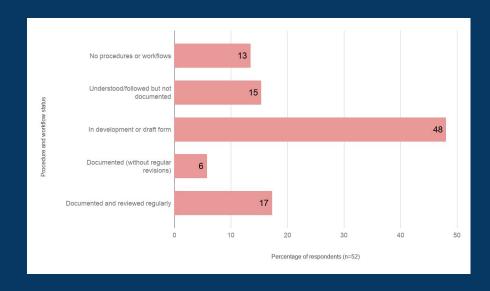
Policies

- 17% have published digital preservation policies
- 19% have policies under review or in draft form



Procedures and Workflows

- 23% have procedures that are documented
- 48% have procedures in development or draft form



Areas of preservation concern:

"What digital assets do you wish you could preserve but currently cannot?"

- Web-based content (12 mentions)
 - o Public, internal websites, websites of student organizations, local news
- Organizational records (8)
- Research data (5)
- Digital audiovisual carriers (5)
- Email (3)

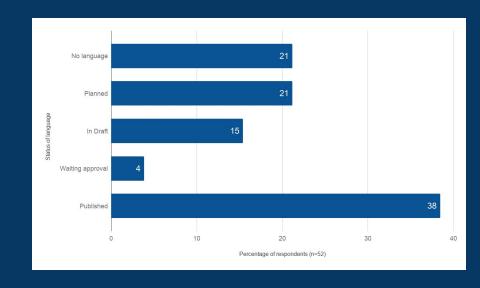
Top 5 "gaps and challenges" selected

- 1. Policy: Lack of time/resources for policy development (41 respondents, 79%)
- 2. Staffing: Lack of funding for new positions (40, 77%)
- 3. Procedures and workflows: Lack of time/resources for procedure documentation (39, 75%)
- 4. Organization: Lack of resources to pursue organizational change (33, 63%)
- 5. Tied:
 - a. Forensics: Lack of staff knowledge/skills (28 respondents, 54%)
 - b. Preservation processing tools: Lack of money to support tools (28%, 54%)

Some good news

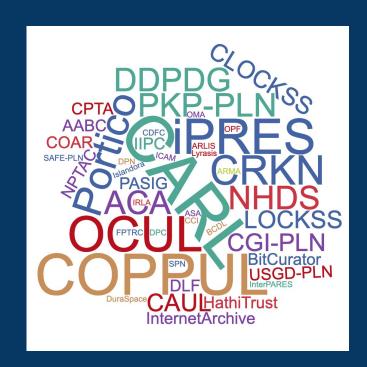
Organizational Commitment

- 79% of respondents (41) have some kind of language expressing commitment to digital preservation published, waiting approval, drafted or planned
 - For example, language in a strategic plan, mission statement, etc.
- 81% have an individual or group responsible for coordinating digital preservation activities across the organization



Organizational Commitment

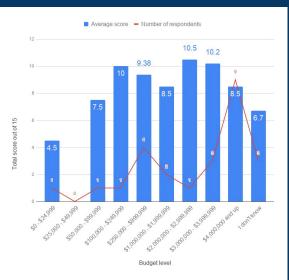
- 75% (39) indicated participation in regional, national, or international organizations, conferences or projects specific to digital preservation
- There are lots of collaborative things happening:
 - 49 distinct entities were mentioned by respondents
 - 44% of these were mentioned just once



Capacity vs. Resources

You don't have to be a big or well-resourced institution to do digital preservation





Overall score against materials expenditures, CARL members (left) and budget ranges (right)

Summary

Strengths:

- Organizations seem to be at least committed on paper
- There are many opportunities for collaboration
- More procedures are 'in draft,' which isn't a bad thing
- While being a well-resourced institution can help build a program, it is not a requirement for doing so

Weaknesses:

- Low uses of preservation-friendly storage infrastructures and tools for processing
- Very low staffing to do digital preservation work
- Policies are not well-established

Up next for the DPWG

New subgroups for 2020:

Policy: Investigating the digital preservation policy "stack"; opportunities for inter-institutional policy support and sharing. Lead: Geoff Harder

Infrastructure: Scoping out infrastructures on local, regional, provincial levels with the goal of integrating or coordinating services at a national level. Lead: Steve Marks

Staffing: defining staff roles and identifying applicable and successful job descriptions for supporting digital preservation work. Lead: Lara Wilson

Acknowledgements

My deep appreciation goes to:

- The survey respondents for taking the time to answer our questions
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- Kathleen Shearer, the report co-author, for her sage advice and editing skills
- Jonathan Dorey for his excellent translation of the report into French

Questions?

- Did these findings surprise you or confirm your own experiences?
- How do these findings resonate with your own institutional context?
- Potential further research: for the institutions meeting their preservation goals, how did they build preservation programs?

Reach out! grant@scholarsportal.info