COPPUL's Digital Preservation Network

Developing distributed digital preservation infrastructure in Canada

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Obrigado

In the digital age, preserving our scholarship, our documentary heritage, our cultural memory, is one of the great challenges of our time.

What content are we talking about?

"The long tail of data"

- Institutional repositories
- Digital asset management systems
- Multimedia repositories
- Web archives
- Research data repositories
- At-risk media and special collections
- Institutional records

Systematic planning for **digital preservation** : evaluating potential strategies and building preservation plans

C Becker , H Kulovits, M Guttenbrunner, S Strodl ... - International journal on ..., 2009 - Springer

... Systematic planning for **digital preservation** : evaluating potential strategies and building preservation plans **...** Abstract A number of approaches have been proposed for the problem of **digital preservation** , and the number of tools offering solutions is steadily increasing. **...**

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Digital preservation: the state of the art

J Cunha , M Galindo - 2007 - repositorio.ufrn.br

VIII ENANCIB - National Meeting of Research in Information Science October 28 to 31, 2007 • Salvador • Bahia • **Brazil** GT 2 - Organization and Representation of Knowledge Poster DIGITAL PRESERVATION: the state of the art **DIGITAL PRESERVATION** : the state of **...**

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Digital curation: a new level for preservation? The digital search data

LF Sayão , LF Sales - Information & Society, 2012 - search.proquest.com

... PhD student in the Program of Ps-Graduation in Information Science of the Federal University of Rio de Janeiro, **Brazil** . E-mail: lsales@ien.gov.br. **...** 2012. 189. Luis Fernando Sayo, Luana Farias Sales. CURATORSHIP DIGITAL: a new platform for **digital preservation** of research data **...**

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The OAIS reference model and distributed digital preservation

AHLR de Souza, AF Oliveira, RT D'Avila ... - Science of ..., 2014 - revista.ibict.br

... E-mail: rqtevi@gmail.com Erinalva da Silva Sales Chaves Librarian from the Federal University of Maranhão (UFMA), MA - **Brazil** . E-mail: erinalvassales@gmail.com INTRODUCTION **...** LOCKSS. OAIS reference model and the distributed **digital preservation** Abstract **...**

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Sobre os ombros de gigantes

What is COPPUL?

- Council of Prairie and Pacific University Libraries
- Represents over 400,000 faculty and students at 22 university libraries across Western Canada
  - Western Canada = 2.7 million km^2 and 32% of Canada's population
- Represents very large and very small libraries
  - Annual operating budgets range from $700,000 to $40 million

COPPUL is about...

- "Leveraging our **collective expertise**, resources, and influence, and **increasing capacity and infrastructure**, to enhance learning, teaching, student experiences, and research at our institutions."

- Institutions pay a membership fees for staff and administration
- Member fees enable substantial discounts on journal and ebook packages, and other licensed products

What is digital preservation?

- "The series of **managed activities** necessary to ensure continued access to digital materials for as long as necessary." Digital Preservation Coalition

    - Identification and selection of digital materials
    - Storage and protection of digital objects
    - Providing access
    - Policies, procedures, workflows, staffing, expertise, etc.

What is distributed digital preservation?

- Distributed digital preservation emphasizes the importance of such factors as content replication, **independence**, and **coordination** for ensuring the longevity of digital objects

  - Geographic distribution
  - Infrastructure heterogeneity
  - Organizational diversity

What is digital research infrastructure?

- Tools and services
- Computational resources and networks

- Policy and funding frameworks that enable capacity
- Expertise and skills
- Collaboration

Distributed digital preservation infrastructure

- Moving beyond tools and services to building institutional *and* network capacity
- Thinking in terms of robust **infrastructure**

COPPUL Digital Preservation Network

- The COPPUL DPN started as the COPPUL PLN (Private LOCKSS Network)
    - Distributed digital preservation storage
- Other tools and services came on board
    - Archivematica, an OAIS-based digital preservation system
    - Archive-It, a web archiving platform from the Internet Archive

- All, arguably, are not being used to their full capacity
- "The adoption gap" represents substantial risks
- **Tools and services that are not used are at risk**

Moving from a focus on tools and services to building the organizational capacity to use them!

The COPPUL DPN

[From the *Recommendations Report for the COPPUL Digital Preservation Network Executive Summary* http://bit.ly/1Nlhq0y]

- "The COPPUL Digital Preservation Network (COPPUL DPN) aims to transform COPPUL's current digital preservation activities into a set of **comprehensive, flexible, scalable, and sustainable** services."

- "The COPPUL DPN will **accommodate members of all sizes** and offer flexible services that suit a broad range of needs."

Keeping control is critical

- "Cultural memory organizations can and should take responsibility for managing their digital collections, and such institutions can realize many advantages in collaborative long term preservation and access strategies."
  - Katherine Skinner, Educopia

- Maintaining control over content and the repository and preservation infrastructure needed to provide access to it over time is key

- Collaborative efforts lay the foundation for tackling future challenges, of which there will be many!

Initial recommendations for a COPPUL DPN, 2015

- Establish a governance, membership, and funding model
  - For systems and for the staff to do the work
- Build organizational capacity
  - Advocacy
  - Assessment
  - Education
  - Peer services
  - Policy development
- Offer tools and services
  - Homegrown and through partnerships
- Align and coordinate with regional, national, and international efforts

Basically, the goal was to...

- Get all 22 members to fund a full-time coordinator position to oversee the COPPUL DPN's day-to-day operations, and provide tools and services on an opt-in or à la carte basis.

- We moved from thinking about an opt-in network based on the COPPUL PLN, to an organization within COPPUL dedicated to digital preservation and funded through membership fees.

A focus on preservation for unique local holdings and diverse repository platforms

- Institutional repositories
- Digital asset management systems
- Multimedia repository platforms
- Web archives
- Research data repositories
- At-risk media and special collections
- Institutional records

- NOT commodity ejournal and ebook content (not yet, anyway!)

COPPUL DPN core activities

- Provide expertise and resources to develop local policies, procedures, and workflows
- Provide educational and professional development opportunities
- Help members advocate for resources on their campuses
- Advocate as a consortium for increased awareness of, and resources for, digital preservation

COPPUL DPN core activities

- Collaborate with external partners to provide COPPUL members with tools and services
- Work with the broader community to align COPPUL's efforts with emerging national and international efforts
- Provide training and support for preservation platforms and services
- Work towards platform integrations and new service offerings

Governance and funding

- It took a lot of outreach, education, and advocacy to get all 22 directors to agree to fund a full-time position
  - 3 in-person meetings, 1 day-long workshop, many site visits, lots of airplane rides, hundreds of phone calls and emails
- It is part of the core membership fees for COPPUL, rather than a separate, opt-out initiative
- Building the funding model was a collaborative effort and was based on familiar models within Canada
- Broad and meaningful participation in the DPN is possible through an inclusive Steering Committee

Examples of activities

- Enhancements and expansion of opt-in services
- Advocacy toolkit
- Templates for policies and procedures
- Assessment tools and peer services
- Workshops and webinars
- Partner agreements with repository services
- Memorandum of Understanding with national research data management initiative
- Established a national digital preservation working group
- Developing a national-scale preservation storage pilot project
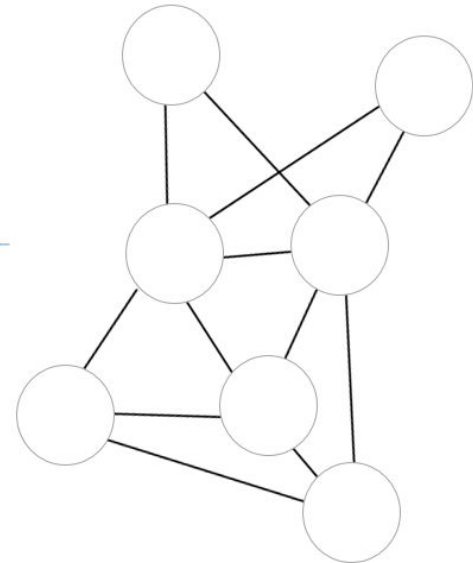
COPPUL DPN opt-in services

- Platform services
  - Islandora
  - Archive-It
  - Dataverse

- Preservation processing
  - Archivematica

- Preservation storage services
  - LOCKSS w/ ownCloud

ARCA — Discover BC's digital treasures

The Dataverse Project

ARCHIVE-IT

IR / DAMS

RDM

Web archives

Local repositories and network drives

archivematica®

OAIS-compliant preservation processing

LOCKSS

ownCloud

To summarize...

- Capacity
  - Without building capacity, services are underutilized
- Outreach and advocacy
  - Lots of education and awareness building
  - A position dedicated to digital preservation gets you a seat at the table for conversations at the national and international level
- Sustainability
  - The funding model is key!

Obrigado

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