"Why is this link dead? Aren't government publications all online?"

Preserving digital federal content with the Canadian Government Information Private LOCKSS Network (CGI-PLN)

> Mark Jordan, Simon Fraser University Amanda Wakaruk, University of Alberta Access Conference

Access Conference September 26, 2013

Background

Government Records and Publications

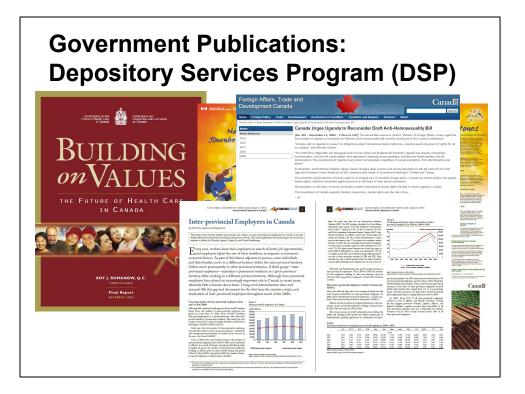
Library and Archives of Canada Act (S.C. 2004, c. 11)

- "record" means any documentary material other than a publication, regardless
 of medium or form
- "government record" means a record that is under the control of a government institution
- "publication" means any *library matter* that is made available in multiple copies or at multiple locations, whether without charge or otherwise, to the public generally or to qualifying members of the public by subscription or otherwise. Publications may be made available through any medium and may be in any form, including printed material, on-line items or recordings

(Section 7) The objects of the Library and Archives of Canada are

(c) to be the permanent repository of **publications of the Government of Canada** and of government and ministerial records that are of historical or archival value;

(*d*) to facilitate the management of information by government institutions;



The DSP does not collect publications from all federal government agencies, nor does it collect Statistics Canada publications or items that fall outside the definition of "publication" which includes news releases and backgrounders.

See TBS Procedures for Publishing for more information: <u>http://www.tbs-sct.gc.</u> <u>ca/pol/doc-eng.aspx?section=text&id=27167</u>

Recent Timeline of Cdn Govt Pubs

2008

- Common Look and Feel Internet Standard (late 1990s, lost pdfs, databases)
- Library and Archives Canada (LAC) stops web archiving programs

2010

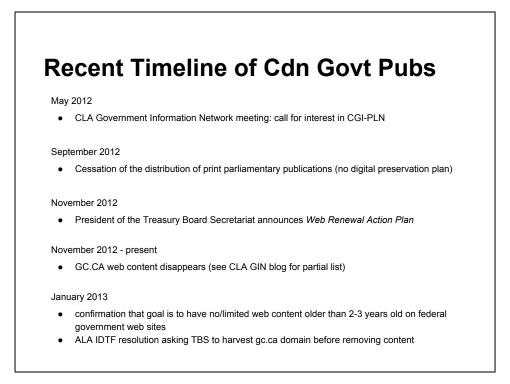
- Crown Copyright Licensing Program allows non-commercial reuse of pubs
- Cessation of print parliamentary committee documents (no digital preservation plan)

2010 - December 2012

- Budget reduction (e.g., CISTI 70%) and closure of numerous federal libraries
- Virtual Library announced as part of Canada's Action Plan on Open Government

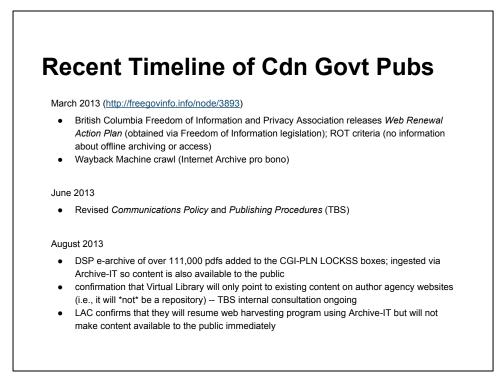
April 2012 (http://freegovinfo.info/node/3677)

- Depository Services Program Deficit Reduction Action Plan
- Library and Archives Canada loses major funding, 450 jobs affected (215 lost)



Speaking Notes for the Honourable Tony Clement, President of the Treasury Board of Canada - "Using Technology to Challenge the Status Quo in Government Operations" - references the Web Renewal Action Plan: <u>http://www.tbs-sct.gc.ca/media/ps-dp/2012/1106a-eng.asp</u>

CLA GIN Blog: http://agiig.wordpress.com/



Web Renewal Action Plan

http://fipa.bc.ca/library/Government%20Documents/GoC_web_plan_Part1.pdf http://fipa.bc.ca/library/Government%20Documents/GoC_web_plan_Part2.pdf

ROT Criteria http://www.tbs-sct.gc.ca/ws-nw/wu-fe/rot-rid/index-eng.asp

LOCKSS Program

LOCKSS = Lots of Copies Keeps Stuff Safe

- tamper evident, distributed preservation system
- based at Stanford; <u>http://www.lockss.org/</u>

Five Principles

- 1. libraries have local control of assets
- 2. perpetual access is guaranteed
- 3. preserve original version
- 4. decentralized, distributed preservation
- 5. affordable

LOCKSS for US Documents

- replicates Federal Depository Library Program in the digital environment
- 36 libraries and GPO participating (at least two Canadian partners)

Canadian Government Information Private LOCKSS Network (CGI-PLN)

http://plnwiki.lockss.org/wiki/index.php/CGI_network

Policies

- Governance
- Collection and Access

Committees

- Steering
- Technical



Technical Overview

- Member requirements
- Overview of preservation architectures
- Metadata
- Disaster Recovery Plan

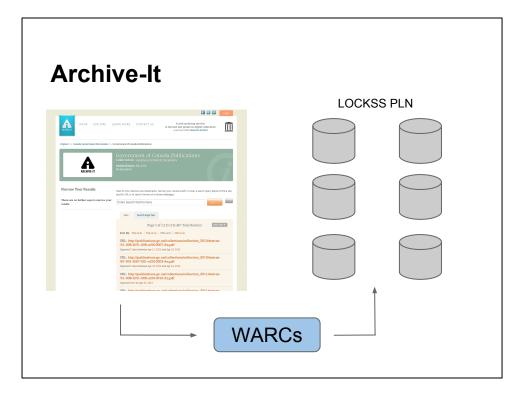
Member Technical Requirements

- LOCKSS box
 - 2 TB storage (for now)
- Ongoing technical administration
 Enabling new content
- Technical Subcommittee

Preservation Architectures: Criteria

- Access front end
- Access / proxy integration
- LOCKSS plugin exists
- Pros
- Cons
- Sustainability
- Unknowns

Name	Archive type	Access	LOCKSS ready	Sustainability	Unknown
Archive-It	Dark	Archive-It front end	Archive-It plugin available	Financial model needs to be developed; ready for new collections / content	Cost of Archive-It account
Central portal	Bright	APLIC portal	Some work required	Technical sustainability problematic; costly in staff	APLIC portal does not support link resolvers; who creates metadata?
Local hosting	Bright	CONTENTdm, etc. front end	CONTENTdm plugin available	Financial model needs to be developed	Who hosts? Who pays? Who creates metadata?
DSP direct	Dark	DSP interface	No plugin available	Technical sustainability problematic; costly in staff	Content is still on gov't servers



Metadata

- Depository Services Program Catalogue files, quarterly updates
- MARC records for local ILS/discovery layer loads
 - Links to both the DSP original and the Archive-It URL
- Linking preserved document and metadata

Disaster Recovery

No plan so far. But we have all the WARCs.

Journal Title: Archive-It Collections				
Plugin: Archive-It Plugin				
Access Type: OpenAccess				
Content Size: 132,101,778,647				
Disk Usage (MB): 125985.1				
Repository: /cache0/gamma/cache/b/				
Status: 100.00% Agreement				
Publisher: Canadian Government Information Private LOCKSS Network				
Available From Publisher: Yes				
Created: 10:43:57 07/31/13				
Crawl Pool: org.lockss.phgin.archiveit.ArchiveItPlugin				
Last Completed Craw: 01:03:41 09/12/13				
Last Crawl: 01:03:32 09/12/13				
Last Crawl Result: Successful				
Last Completed Poll: 03:09:36 08/02/13				
Last Poll: 01:10:50 08/01/13				
Last Poll Result: Complete				
AU configuration				
Repair candidates				
List <u>URLs</u> , Files				
Node Url	Version	Size	Tree Size	Child
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Over 111k PDFs at this point

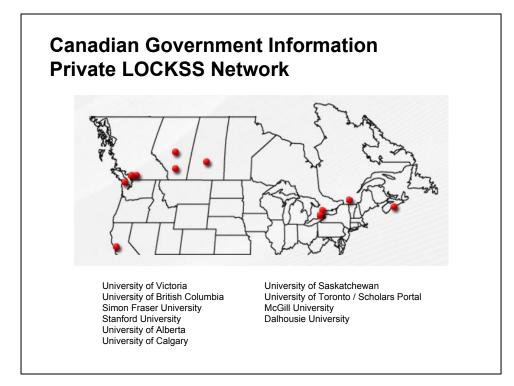
WARC/1.0 WARC-Type: response WARC-Target-URI: http://publications.gc.ca/collections/collection_2013/rncan-nrcan/M114-32-2005-eng.pdf WARC-Date: 2013-06-05T21:31:08Z WARC-Payload-Digest: sha1:ZEXFKMKRYEIQJX6MKYZ4Y6MRLHVNQYYT WARC-IP-Address: 205:193.152.47 WARC-Record-ID: <urn:uuid:85f81067-fec1-45dd-ad8e-ef0ad7ac4ef3> Content-Type: application/http; msgtype=response Content-Length: 341516

HTTP/1.1 200 OK Date: Wed, 05 Jun 2013 21:31:08 GMT Server: Apache/2.2:3 (Linux/SUSE) Last-Modified: Fri, 18 Jan 2013 14:08:33 GMT ETag: "b74028-534ff-4d390a58bda40" Accept-Ranges: bytes Content-Length: 341247 Connection: close Content-Type: application/pdf

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Moving Forward

- other collections?
 - provincial? municipal? IGO?
 - LAC WARC files of GoC web harvests?
 - coordination of web harvesting (Government Information Day, November 1, Toronto)
- new members (contact amanda.wakaruk@ualberta.ca)



Questions?

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