Distributed Digital Preservation Methodology at the Brazilian Network Cariniana

An overview of challenges, successes, and future directions

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Introduction

- The work of the IBICT
- The actions taken
- The importance

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The Brazilian Institute of Information in Science and Technology

10 years...
The integration of a distributed digital preservation national network

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The Distributed Digital Preservation Model

Collaborative strategies and new models

Cooperation among members

Investment

The importance of partnerships

The benefits of sharing costs

Effective preservation strategies

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The importance of the LOCKSS Alliance in Brazil

The establishment of an architecture of collaborative sub-networks for the treatment and preservation of electronic technical-scientific publications.

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Preservation of Open Access Content
Published in Brazil

- The Brazilian reality
- Open source software
- Security
- Integration functionality

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The organizational aspects of digital preservation

- Preservation in national territory
- Introductory projects
- Tools

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First Actions

Periodicals, books, theses and electronic dissertations

Training of professionals dedicated to the registration of collections in digital format

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The Brazilian Network Services

A system in a decentralized architecture.

Long-term preservation of Brazilian scientific publications, concerns open access periodicals published in Brazil.

Archive of the doctoral theses.

Archive, catalog and preservation of research data.

Financed by the Brazilian Government and in particular by the MCTI (Ministério da Ciência, Tecnologia and Inovação). The MCTI gave resources to IBICT from 2013-2015.

The network is currently composed of 11 nodes.

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Everything started as...

Seven Brazilian public universities.

The insertion and storage of electronic journals on the LOCKSS platform of the partner institutions that have free access publications.

Free membership of institutions.

Services to those institutions that have free access publications.

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The Cariniana staff consists of 27 people, only 2 are full time, 15 are civil servants from the partner institutions.

The archive's dimensions: 282 GB for 772 open access journals, for 13,327 Archival Units archived.

All archived electronic journals use OJS as a platform.

The institutions served by the network are 165 universities and Brazilian research centers.

We have still 425 OJS journals in process and 83 from 22 institutions waiting to be included.

The Brazilian network does not write plugins autonomously.

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Developing a trusted space for researchers datasets

Over the years, several methods have been used to store research results. However, these methods do not use a standardization of retrieval, availability and preservation of research data for the scientific community.

These data were stored inappropriately or even discarded without any management in the storage process.

Research data need to be structured, organized, made available and preserved so that future generations can use and understand the information described in them.

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Long-term management of research data
Integration

OJS- Dataverse Integration

OJS Journal

Journal Dataverse

Citation to Data

Citation to Article

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Data Preservation Life Cycle

OJS
OPEN JOURNAL SYSTEM

The Dataverse Project

OAIS-compliant preservation processing

Preservation Storage Service

archivematica®
Distributed Preservation

PKP LOCKSS

PKP has developed a Private LOCKSS Network (PLN) to digitally preserve OJS journals. The LOCKSS program offers decentralized and distributed preservation, seamless perpetual access, and preservation of the authentic original version of the content. The PKP PLN ensures that journals that are not part of the Global LOCKSS Network, which primarily preserves content from larger publishers and vendors, or an existing PLN, which preserve small numbers of OJS journals hosted by member libraries, can be preserved using the LOCKSS program. For additional details about the PKP PLN, see the high level overview (an early discussion document).

With the release of OJS 2.4.8, the PKP PLN is now open to the OJS user community!

Join the PLN

Current usage

As of May 23, 758 journals had registered with the PN, and deposited 19,779 issues.

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More OA Journals

SciELO 20 Years

SciELO Network Meeting - 24-25 set 2018
International Conference - 26-28 set 2018

Where quality, innovation and Open Access flourish

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Conclusion

As distributed digital preservation solution, Stanford University's LOCKSS program meets the requirements mentioned in the OAIS reference model, even though it has a distributed architecture, which did not interfere with compliance with these guidelines.

Cariniana Network follows the relevant internationally established standards and best practices for definitions of access, archiving and dissemination of preserved digital documents.

Following the commitment of the IBICT to managing the life cycle of the digital collections and making the scientific and technological information available in the long term, the objective of the Cariniana network is focused on the fulfillment of the functional requirements that allow the preservation and real custody of these collections.
MUITO OBRIGADO!