# **Digital Preservation**

### An Overview of Where We Are



Technology Building, National Science Council Taipei, Taiwan, 18 March 2008

Deanna B. Marcum Associate Librarian of Congress for Library Services Library of Congress, Washington, D.C., U.S.A.

## NDAP International Conference Technology Building, NSC, Taipei, Taiwan

18 ~ 20 March 2008

## **Digital Preservation Challenge**

- Digital media is far more fragile than books and journals
- Electronically recorded information is in danger of becoming unreadable even before the digital media deteriorates
  - Computer hardware and software used to create digital files become obsolete



## **Digital Preservation Challenge**

- Ever-increasing volume of electronic material to be preserved
- More materials are "born digital"
  - Scientific and academic journals
  - Documents, reports, email messages
  - Databases and data sets



## **Digital Preservation Challenge**

- Material comes in a wide array of complex and sometimes unpredictable formats
  - Dynamically generated Web pages
  - Animations, Simulations, and 3-D Models
  - Geographic Information Systems
  - Blogs, Listservs, and Bulletin Boards



## **Preservation Techniques: Migration**

 May require abandoning original formats and systems









## **Preservation Risks**

- Search engines, information hubs, and publishers of periodicals
  - do not promise perpetual preservation of their material
- Publishers who do submit materials for preservation
  - often impose severe access restrictions to protect copyright

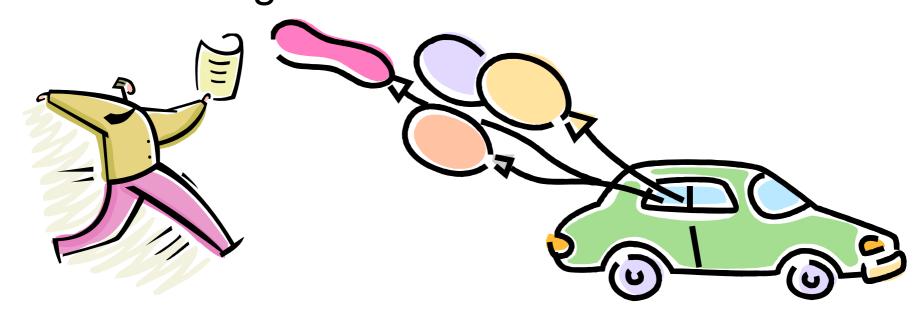


## **More Challenges**

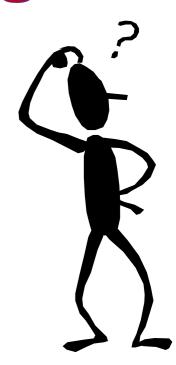
- Increasing preservation = more \$\$\$\$
- Additional funds also needed for R&D
- Selection decisions become difficult



"because developments in publishing, information services, and technology are rapid and dynamic ... developing [a preservation] strategy is akin to jumping onto a moving vehicle."



# How are we doing?







### INUDZOIGDIOSCURI

#### Dioscuri - the modular emulator

Dioscuri is an x86 computer hardware emulator written in Java. It is designed by the digital preservation community to ensure documents and programs from the past can still be accessed in the future.

The Dioscuri emulator has two key features: it is durable and flexible. Because it is implemented in Java, it can be ported to any computer platform which supports the Java Virtual Machine (JVM), without any extra effort. This reduces the risk that emulation will fail to work on a single architecture in the future, as it will continue to work on another architecture.

Dioscuri is flexible because it is completely component-based. Each hardware component is emulated by a software surrogate called a module. Combining several modules allows the user to configure any computer system, as long as these modules are compatible. New or upgraded modules can be added to the software library, giving the emulator the capability to run these.

Dioscuri is the best choice to retain access to your old documents, games and other applications!

#### Latest news

14 February 2008



#### Dioscuri

- · Idea and key features
- Digital Preservation
- Screenshots
- · Latest news!

#### Downloads

- Latest version
- All versions / sourcecode
- Disk images

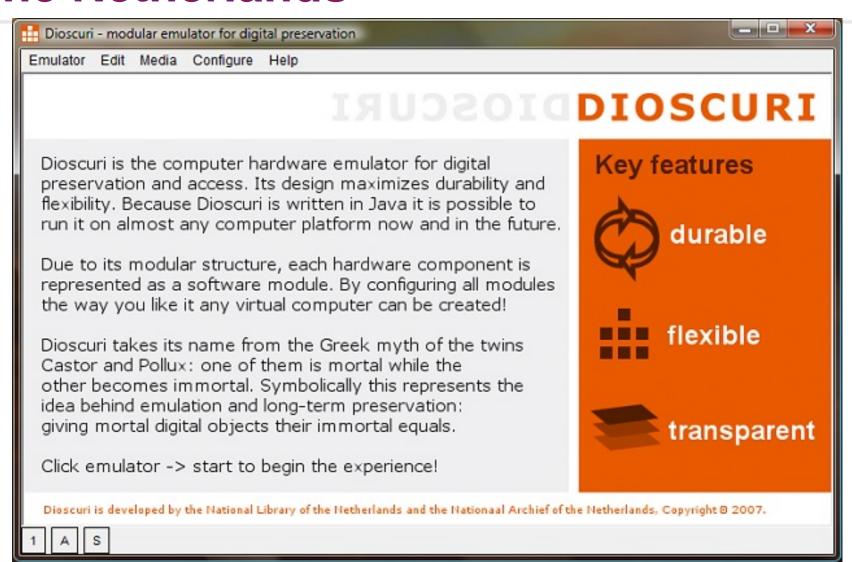
#### Documentation

- User manual
- Reference docs

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#### e-Depot and digital preservation

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About the KB

#### e-Depot and digital preservation

- Information for international publishers
- The e-Depot system (DIAS)
- → Digital preservation research
- y Contact
- Publications and links.

#### Library

**Expositions & Collections** 

'To ensure permanent access to digital objects'

The e-Depot is a digital archiving environment that ensures long-term access to digital objects which would otherwise be threatened by rapidly evolving software and hardware platforms as well as media decay. It is the dedicated archiving environment for the KB's national electronic deposit collection. In addition, it will include the Dutch web archive and digitised master images. In line with the international nature of information provision, the KB has extended its e-Depot services to publishers worldwide. The e-Depot is supported by sustained research and development efforts geared towards maintaining the integrity of stored digital objects.

- Information for international publishers
- Information on the e-Depot system (DIAS)
- Information on Digital preservation research
- Contact

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Publications and links



#### New

RAND report on digital preservation and the KB's response

Presentations Tools and Trends: International conference on digital preservation

Information for Dutch publishers (Dutch only)

Koninklijke Bibliotheek - National library of the Netherlands

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#### Facts & figures

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- About the KB
  - ▼ e-Depot and digital preservation
    - ∧ The e-Depot system (DIAS).

#### Facts and figures

#### Library

**Expositions & Collections** 

#### Costs: digital archiving and R&D digital preservation

- € 1,1 million structural funds for staff and system maintenance
- € 1,2 million structural funds for research
- 20 full-time equivalents involved

#### Volume and capacity

- More than 5,000 e-journal titles, 10 million e-journal articles, approximately, 11 TB
- Current storage capacity 25 TB, to be extended to 1,5 PB

#### System properties

- Operating system AIX 5.3
- Software: Tivoli Storage Manager, Access Manager, DB2, Content manager, Web Sphere, Java
- · Hardware: IBM P570, P520, 4 Gb fibre channel switches

#### Publishers with archiving agreements

Facts and figures as of November 2007

Koninklijke Bibliotheek - National library of the Netherlands

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### **DARE: Digital Academic Repositories**

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      - Current projects

#### DARE

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#### Library

Expositions & Collections

#### Introduction

The DARE programme is a joint initiative of the National Library of the Netherlands (KB), the Dutch universities, the Royal Netherlands Academy of Arts and Sciences (KNAW) and the Netherlands Organisation for Scientific Research (NWO). DARE's aim is to store the results of all Dutch research in a network of repositories, in which the National Library fulfils the role of safe place in charge of digital preservation. In this way all participants retain responsibility for and control over their own data while making them accessible at the same time. Moreover, as the KB takes responsibility for storage and long-term preservation, the universities can concentrate on their research work.

#### Use of the e-Depot

Long-term preservation and accessibility of the repository material is safeguarded as the KB's e-Depot is used for the deposit. Not only is the e-Depot the world's first electronic deposit system, the KB also is one of the leading institutions in the field of digital preservation research in the world. The participants of the DARE programme can benefit from this expertise.

At the moment the focus is on establishing the technical link for the delivery, the quality of the metadata in the repositories and the procedures for deliveries and versioning. Furthermore a start will be made with the retrieval aspect of the project. The technical issues required for batch retrieval are currently being implemented, most of them in collaboration

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- Just one repository in what they call a "safe places network"
- Network would comprise several repositories engaged in preserving international electronic publications

## **British Library – "Dom Programme"**

LIBRARY HSILING

## ABOUT US

Home > About Us > Strategy, policies and programmes > The digital programme > Digital Object Management Programme

#### **Digital Object Management**

Under long-standing Legal Deposit legislation the Library receives a copy of every printed publication produced in the UK and Ireland. We also purchase materials extensively from around the world. Technological developments mean that we are now collecting an ever-increasing number of electronic items.

These electronic items include:

- Digitised materials sourced in the UK, received under a voluntary arrangement with some publishers since January 2000
- · The digitisation of parts of our own collections
- · e-Journals
- · Cartographic data
- · Audio CDs and other sound items
- The products of Web archiving

Beyond this, however, the **Legal Deposit Libraries Act 2003** (which is not expected to come into effect until late 2007 at the earliest) extends the present legislation and places legal requirements on us.

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## **British Library – "Dom Programme"**

- store and preserve any digital material in perpetuity
- provide access with appropriate permissions
- ensure that the material is easy to find
- ensure that users can view the material with contemporary applications
- ensure that users can experience material with the original look-and-feel

## **Germany – Kopal**







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Masthead

#### About kopal

Goal

Service

**Project Timetable** 

**Work Packages** 

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#### **Technical Aspects**

Object Specification

Standards

Software

koLibRI kopal Library for Retrieval and Ingest

#### About kopal

#### kopal - Co-operative Development of a Long-Term **Digital Information Archive**

Making digital documents available long-term is one of the still unsolved problems of our information society. With the increasing number of electronic publications, it is becoming critical that we reliably archive them. In the course of technological development, new digital file formats which are dependent on specific hardware and operating systems are continually being developed and used. Thus, older data are often not usable with current hardware and software. The kopal project is dedicated to finding a solution to this problem in the form of a cooperatively developed and operated long-term archive for digital data.

The kopal demonstrator visualizes concept and workflow of the kopal archival system.

The German National Library, the Niedersaechsische Staats- und Universitaetsbibliothek Goettingen

#### News

Call for Papers -E-Government and Digital Archives...

by Stefan Strathmann, 2008-02-27

Start of intended standardization processes at the Normenausschuss Bibliotheks- und Dokumentationswesen (NABD)...

by Philipp Höhler, 2008-02-22

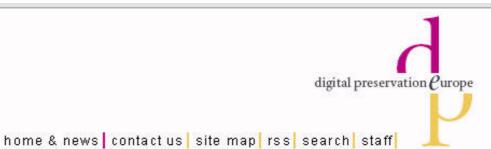
New UK National Nuclear Archive announced...

by Stefan Strathmann, 2008-02-14

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## **European Union - DPE**



**CeBIT** 

4-9 March, Hannover Germany

DPE at CeBIT 2008

Preserving the future -Stand B14, Hall 9, Future Parc



DigitalPreservationEurope(DPE), building on the earlier successful work of ERPANET, facilitates pooling of the complementary expertise that exists across the academic research, cultural, public administration and industry sectors in Europe.

DPE fosters collaboration and synergies between many existing national and international initiatives across the European Research Area.

DPE addresses the need to improve coordination, cooperation and consistency in current activities to secure effective preservation of digital materials. DPE's success will help to secure a shared knowledge base of the processes, synergy of activity, systems and techniques needed for the long-term management of digital material.

#### Latest News:

Preserving the future - cutting edge digital preservation techniques showcased at CeBIT 4-9 March 2008 Stand B14, Hall 9, Future Parc

- about DPE
- news and events
- exchange
- programme
- DPE challenge
- DPE user community
- DPE registries
- DPF nublications

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## **European Union - PLANETS**



PLANETS - PRESERVATION AND LONG-TERM ACCESS THROUGH NETWORKED SERVICES

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#### Welcome to Planets

Planets, Preservation and Long-term Access through Networked Services, is a four-year project co-funded by the European Union under the Sixth Framework Programme to address core digital preservation challenges. The primary goal for Planets is to build practical services and tools to help ensure long-term access to our digital cultural and scientific assets. Planets started on 1st June 2006. This website makes available project documentations and deliverables as Planets progresses so that these can be shared with the libraries, archives and digital preservation community.

The strong Planets consortium brings together experti . University of Cologne and archives, leading research universities and techno British Library, the partners are:

- The British Library
- The National Library of the Netherlands
- Austrian National Library
- The Royal Library of Denmark
- State and University Library, Denmark
- The National Archives of the Netherlands
- The National Archives of England, Wales and the United Kingdom
- Swiss Federal Archives

- » About Planets
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#### News

#### Planning the future with Planets: a preservation planning tutorial

29th February 2008

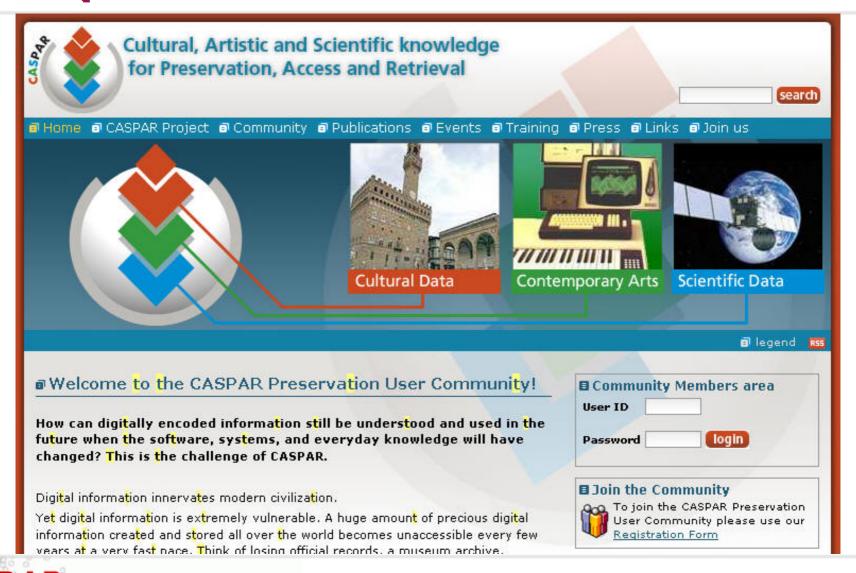
Planets is organising a two-day tutorial on preservation planning. It will be held on 14-15 April 2008 in Vienna, Austria. The event is intended to offer a complete overview of preservation planning and provide attendees the opportunity to learn about Planets' approach and technique. [More]

- University of Freibura
- HATII at the University of Glasgow
- Vienna University of Technology
- Austrian Research Centers GmbH
- IBM Netherlands
- Microsoft Research Limited
- Tessella Support Services Plc

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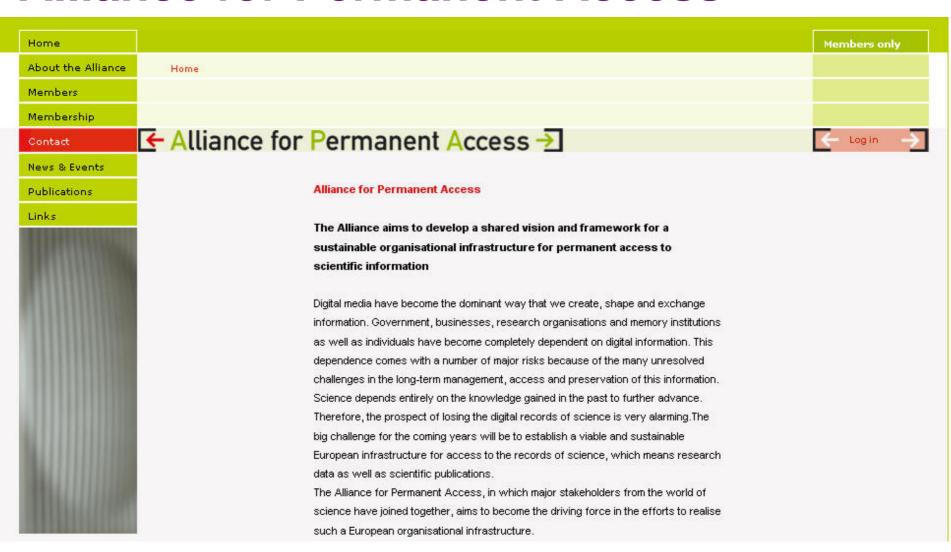
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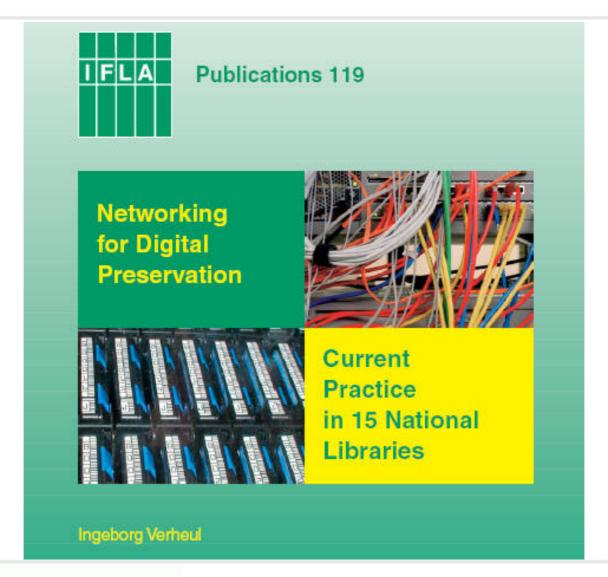
## **Alliance for Permanent Access**



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## **Australia - PADI**

## PAD Preserving Access to Digital Information

PADI is a subject gateway to international digital preservation resources

Browse the Resource Types list or brief Topics list below OR the full topic list OR use Search

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OR PADI Trails

- Events
- Policies, Strategies & Guidelines
- Projects
- Organisations & Websites
- Bibliographies
- Discussion Lists

DIGITAL PRESERVATION TOPICS

- Data Documentation & Standards
- Digital Libraries
- Digital Records
- Digitisation
- Formats & Media
- General Resources
- Issues

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## **Australia - PANDORA**



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## Canada - CISTI



National Research Council Canada Conseil national de recherches Canada





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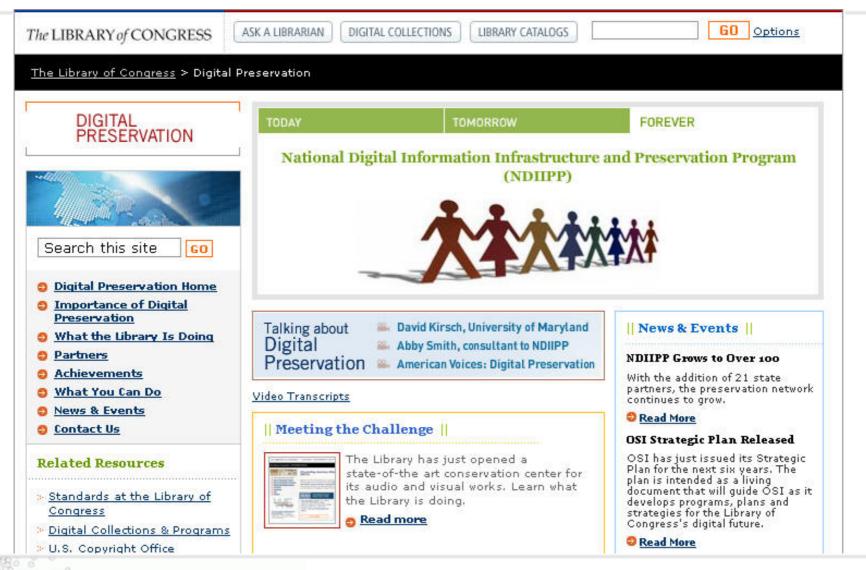
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### **KEYNOTE ADDRESS**

Deanna Marcum, Library of Congress

## **United States - NDIIPP**



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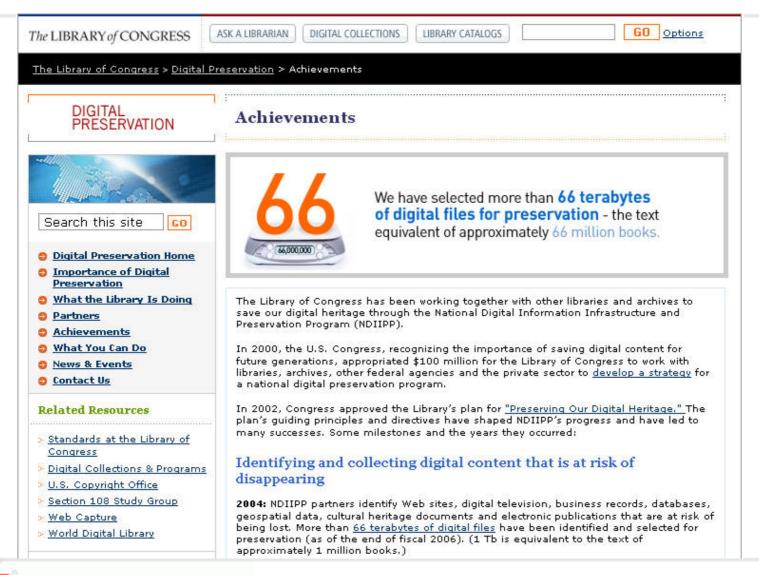
### KEYNOTE ADDRESS

Deanna Marcum, Library of Congress

## **NDIIPP – Primary Goals**

- Identify and preserve significant digital content that is at risk
- Support the improvement of tools, models, and methods for digital preservation
- Develop a national digital collection and preservation strategy
- Establish a network of partners committed to these goals

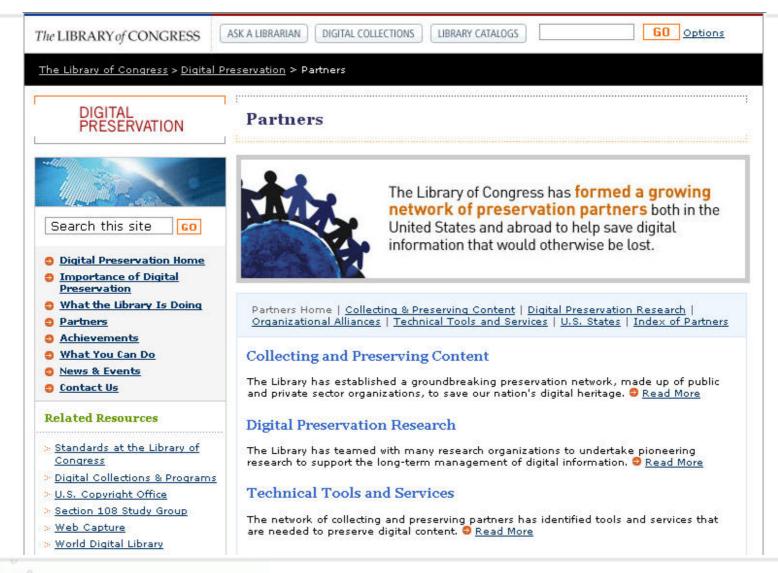
## **NDIIPP - Selection**



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## **NDIIPP - Partners**



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## **LC and NSF - DIGARCH**



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## **National Archives - ERA**



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## **National Archives - ERA**

Press Release December 13, 2007

#### Successful Test for First Phase of National Archives Electronic Records Archives System

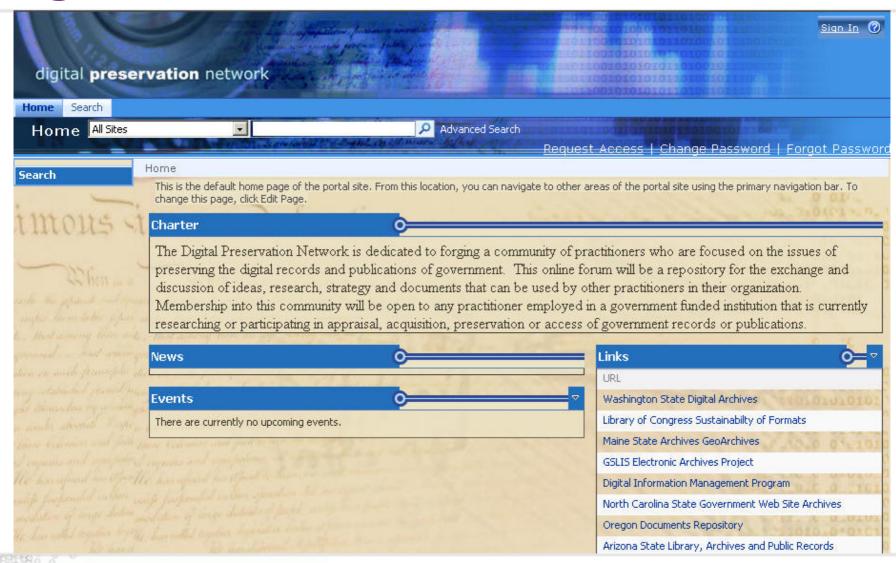
Washington, DC...The development of the Electronic Records Archives (ERA) system has passed a significant milestone, with the successful completion of government testing of the first delivery of software from the developer, Lockheed Martin Corporation. ERA is the National Archives and Records Administration's strategic initiative to preserve and provide long-term access to uniquely valuable electronic records of the U.S. Government, and to transition government-wide management of the lifecycle of all records into the realm of e-government.



Lockheed Martin started deploying ERA hardware last spring and released the first pilot software to the National Archives on September 27, 2007. After extensive engineering and end-user testing of the system, the National Archives gave Lockheed Martin the green light to complete development of the second pilot.

The first pilot supports creating and processing records schedules and requests for transfer of records. The second pilot, to be delivered at the end of December, 2007, will add system functions for transferring electronic records. The third pilot, scheduled for delivery in early March, 2008, will provide tools for automated inspection of electronic records. Ken Thibodeau, ERA Program Director at the National Archives, describes the pilots as "three ounces of prevention" aimed at ensuring that the system's Initial Operating Capability (IOC) meets the government's needs with a robust design and a high quality user interface.

## **Digital Preservation Network**



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## **Preserving Creative America**



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## San Diego Supercomputer Center



#### Placing Trust in Organizations: San Diego Supercomputer Center

David Minor wants you to trust him. He seems honest enough, so it might be worth it to take a pass, depending on the circumstances. But he also wants you to trust his organization, the San Diego Supercomputer Center (SDSC), with managing, storing and preserving some of your most valuable digital assets. Now how willing are you to trust him?

This is the question the Library set out to answer when the NDIIPP program engaged SDSC in the Data Transfer and Storage Project, a one-year demonstration project to test the feasibility of engaging external partners as service providers to fill digital management needs. Minor and Richard Moore, SDSC division director for Production Services came to the Library on Sept. 19, 2007, to present their findings.

Many cultural heritage institutions and government agencies are suffering from tight budgets and a shortage of resources and expertise, with many forced to look outside their walls to find the needed expertise. This is especially true in the digital preservation environment, where technical knowledge is rare, and the costs of long-term information management remain speculative. Additionally, the geographic distribution of materials, capabilities and expertise has the benefit of helping to ensuring that digital materials survive into the future by maximizing the benefits of cooperation and maintaining a level of redundancy that prevents total loss from happening due to the breakdown of any one node.



## **PORTICO**



Portico offers a not-for-profit service that provides a permanent archive of scholarly literature published in electronic form, beginning with electronic journals.

## PORTICO

6,142,211 articles ingested into the archive

50 participating publishers

7,334 committed titles

425 participating libraries

4,031 archived titles

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for designated librarians and publishers

Access the Archived Content for researchers at participating institutions

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## **Digital Library Federation**

DIGITAL LIBRARY FEDERATION

Providing Leadership for Libraries

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The Digital Library Federation (DLF) is a consortium of libraries and related agencies that are pioneering the use of electronicinformation technologies to extend collections and services.

#### **DLF Aquifer News**

Updates on project news available from the AquiSphere

#### **Initiative News**

ERMI white paper on interoperability available from here

#### Forum News

Spring Forum 2008 registration details available from here

DLF is a 501(c)(3) nonprofit membership organization.
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Last updated: Wednesday, February 6, 2008

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CLIR works to expand access to information, however recorded and preserved, as a public good. Through projects, programs, and publications, CLIR works to maintain and improve access to information for generations to come.

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Application period now open for A. R. Zipf Fellowship, 2008 Details >>

Read about CLIR's agenda for 2007-2009

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Press version, February 2008: Preservation in the Age of Large-Scale Digitization, A White Paper By Oya Y. Rieger

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## **Additional Projects**





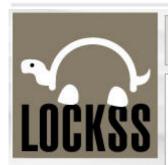


Ohio Library and Information Network



aDORe Archive

## LOCKSS



"...let us save what remains: not by yaults and locks which fence them from the public eye and use in consigning them to the waste of time, but by such a multiplication of copies, as shall place them beyond the reach of accident." Thomas Jefferson to Ebenezer Hazard, February 18, 1791.

#### Home

#### COPIES KEEP STUFF

#### Welcome

LOCKSS (Lots of Copies Keep Stuff Safe) is an international non-profit community initiative that provides tools and support so libraries can easily and cost-effectively preserve today's web-published materials for tomorrow's readers.

Libraries inform and educate citizens and provide critical support to democratic societies by acting as memory organizations. The memory of a library is its collections; therefore in order for a library to be a memory organization it must build collections. LOCKSS helps libraries stay relevant by building collections even as an increasing portion of today's content is born digitally and

published on the web.

LOCKSS replicates the traditional model of libraries keeping physical copies of books, journals, etc. in their collections, making it possible for libraries to house copies of digital materials long-term. Hundreds of publishers and libraries around the world have joined the LOCKSS community and are working together to ensure that libraries continue their important social memory role.

The ACM award-winning LOCKSS technology is open source, peer-to-peer, decentralized digital preservation infrastructure. LOCKSS preserves all formats and genres of web-published content. The intellectual content, which includes the historical context (the look and feel), is preserved. LOCKSS is OAIS-compliant; the software migrates content forward in time of and the bits and bytes are continually audited and repaired 🖹. Content preserved by libraries through LOCKSS becomes a part of their collection, and they have perpetual access to 100% of the titles preserved in their LOCKSS Box.

LOCKSS, now in its tenth year, is a Stanford University Libraries Program. The software is freely available for you to examine and use. Please join us!

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## **CLOCKSS**



"...let us save what remains: not by vaults and locks which fence them from the public eye and use in consigning them to the waste of time, but by such a multiplication of copies, as shall place them beyond the reach of accident." Thomas Jefferson to Ebenezer Hazard, February 18, 1791.

#### Home

CLOCKSS: Controlled LOCKSS™

A Trusted Community Archive

February 22, 2008

#### Vicky Reich honored with the 2008 Ulrich's Serials Librarianship Award

The CLOCKSS Initiative is proud to announce that Vicky Reich is the recipient of the 2008 Ulrich's Serials Librarianship Award in recognition of her distinguished and ongoing contributions to the field of digital preservation. Vicky's leadership role in the development and adoption of digital preservation solutions like LOCKSS and CLOCKSS ensures the accessibility of serial publications and other digital content for future generations.

more here &

January 30, 2008

#### **CLOCKSS Works**

Researchers increasingly access journal articles online, but the real possibility exists that, due to natural disaster or human/computing failure, digital content might not always be available. Libraries and publishers have joined forces in an initiative called CLOCKSS\*, providing leadership and the supporting technology, to ensure reliable, long-term access to scholarly e-content.

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Even if we can develop the technological means to ensure digital preservation of all kinds, can we afford what it will cost?



## Blue Ribbon Task Force Named

#### Library Leaders Named to Task Force on Sustainable Digital Preservation and Access

Norman Oder -- Library Journal, 1/22/2008

Two-year project Report due in 2009 Lynch, Courant among members

Several library leaders, scholars, and technologists have been named to the Blue Ribbon Task Force on Sustainable Digital Preservation and Access, announced last September and funded by the National Science Foundation (NSF) and the Andrew W. Mellon Foundation. The task force will sponsor quarterly discussion panels involving international experts from the academic, public, and private sectors. Two reports are expected, including a final report in late 2009 that will offer recommendations for digital preservation,

The task force is co-chaired by Fran Berman, director of the San Diego Supercomputer Center at University of California, San-Diego, and Brian Lavoie, a research scientist with OCLC. The Task Force members include:

- Paul Ayris, Director of Library Services, the University College of London, England
- . G. Sayeed Choudhury, Associate Dean of Libraries, Johns Hopkins University, Baltimore, MD
- · Elizabeth Cohen, Academy of Motion Pictures Arts and Sciences, Stanford University, Stanford, CA

- · Paul Courant, University Librarian, University of Michigan, Ann Arbor, MI
- · Lee Dirks, Director of Scholarly Communications, Microsoft Corp.
- · Amy Friedlander, Director of Programs, Council on Library and Information Resources (CLIR), Washington, DC
- Vijay Gurbaxani, Senior Associate Dean, Paul Merage School of Business, University of California at Irvine
- Alumnus 9 Anita Jones, Professor of Engineering and Applied Science, University of Virginia, Charlottesville, VA
  - · Ann Kerr, Independent Consultant, AK Consulting, La Jolla, CA
  - · Clifford Lynch, Executive Director, Coalition for Networked Information (CNI), Washington, DC
- Will NIH Pul . Dan Rubinfeld, Professor of Law and Professor of Economics, University of California at Berkeley
  - · Chris Rusbridge, Director, Digital Curation Centre, University of Edinburgh
  - · Roger Schonfeld, Manager of Research, Ithaka, Inc.
  - · Abby Smith, Historian and Consulting Analyst to the Library of Congress, (based in San Francisco)
  - Anne Van Camp, Director, Smithsonian Institution Archives, Washington, DC

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Technology Building, NSC, Taipei, Taiwan 18 ~ 20 March 2008

## International Collaboration Needed

"It would be to the mutual benefit of these initiatives [preservation of electronic journals] to establish relationships with each other... it would be natural to share costs and technology, exchange best practices, and cooperate in agreeing on common standards."

## International Collaboration Needed

"It is important to collaborate on a national and international scale and to share knowledge...no institution can solve the digital preservation problem on its own."

# **Digital Preservation**

### An Overview of Where We Are



Technology Building, National Science Council Taipei, Taiwan, 18 March 2008

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## NDAP International Conference Technology Building, NSC, Taipei, Taiwan