



Characteristics and Challenges of a National Digital Archive

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Characteristics and Challenges of a National Digital Archive

Canadian Initiative on Digital Libraries

www.nlc-bnc.ca/cidl/

Open Meeting
November 1, 2002



Characteristics and Challenges of a National Digital Archive

Examples

- ❑ Denmark
- ❑ Netherlands
- ❑ European University Institute
- ❑ U.S. – LC, NLM, NAL

Common characteristics/challenges
Implications for Canada

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Denmark's electronic research library plan 1998 – 2002

- ❑ information society for all – the Danish model - government IT action plan 1996
- ❑ DKK 200 million
- ❑ national infrastructure
- ❑ library infrastructure
- ❑ digital resources
- ❑ user facilities
- ❑ concept development

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DEF status 2002

- ❑ 31 libraries fully participating, all 12 large, 19 smaller and medium sized
- ❑ access to 700 electronic networked resources (catalogues & databases)
- ❑ access to 9,000 e-journals through 71 licenses
- ❑ 111 libraries participating in cooperative licenses and 194 other hospitals/institutions covered by licenses
- ❑ 11 subject gateways of 24 planned underway

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DEF (continued)

- ❑ 35 libraries participating in 20 development projects – user instruction, skills development, user studies, digitization, e-learning, web archives
- ❑ retro-conversion of 2.5 million catalogue cards in 14 research libraries being carried out
- ❑ 10 user driven projects funded - Danish songs, sports history, fungi portal, teaching portal
- ❑ 3 libraries and 10 publishers participating in 5 digitization projects

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DEF (continued)

- ❑ Danish Art Dictionary – information on 37,000 art works, 6,000 Danish and international artists at 55 museums
- ❑ illustrated art journal – 65 volumes, 58,000 pages, 4,000 illustrations
- ❑ classics of Danish literature

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Characteristics and Challenges of a National Digital Archive

DEF (continued)

- ❑ single sign-on authentication for students, public
- ❑ long-term archiving to be done by major research libraries
- ❑ joint funding by Federal government, local institutions
- ❑ motivation – improve research capability, democratize access to information

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Royal Library of the Netherlands Deposit of Dutch Electronic Publications

- ❑ 1996 started deposit and storage of off-line publications
- ❑ 1999 reached general agreement with Dutch Publishers Association regarding deposit of all e-publications – online and offline
- ❑ K.B. guarantees permanent storage under optimum conditions

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DNEP – Deposit of Netherlands Electronic Publications

- ❑ publishers include Elsevier, Kluwer
- ❑ formats include anything digital
- ❑ using IBM digital library software
- ❑ large investments by all parties
- ❑ e-deposit
 - ❑ stage 1 – loader functionality
 - ❑ stage 2 – retrieve and management
 - ❑ go live Jan 1, 2003

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K.B. Netherlands Digitization Projects

- ❑ Memory of the Netherlands – main audience general public, educational resources
- ❑ other projects support the research community in history of the Netherlands and Dutch language and literature
 - ❑ history of printed book in the Netherlands
 - ❑ digital historical atlas
 - ❑ watermarks, etc.

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European University Institute

- ❑ graduate programs in social sciences and research on key issues for Europe
- ❑ founded by European Commission – 25 years old
- ❑ library's mandate includes responsibility for Institute's website and e publications, providing integrated, personalized access, enabling the shift from print to electronic dissemination of research

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European University Institute Library

- ❑ aims to become the main gateway for European social science research information
- ❑ long-term archiving of its e-publications, theses, policy papers, working papers will be maintained by National Library of Italy in Florence

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LC: National Strategy for Preservation of Digital Information

- ❑ \$100M project if phase 1 plan approved
- ❑ principal areas
 - ❑ large web sites
 - ❑ electronic books
 - ❑ electronic journals
 - ❑ digitally recorded sound
 - ❑ digital film
 - ❑ digital television



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National Library of Medicine

- ❑ policy framework: get needed information, make it available, keep it available
- ❑ PubMed successful over the last 25 years
- ❑ set de facto standards
- ❑ digital collections have different levels of permanence

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National Library of Agriculture

- ❑ very limited financial resources
- ❑ one person preservation staff
- ❑ publicizes current standards
- ❑ promotes use by webmasters and publication staff in related agencies through workshops, personal outreach
- ❑ remarkably successful partnerships

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University and Other Research Libraries

- ❑ digital archiving pilots – institutional and subject repositories
- ❑ MIT DSpace
- ❑ Cornell mathematics and physics
- ❑ Virginia electronic texts
- ❑ Stanford Highwire Press and LOCKSS archiving
- ❑ Michigan, Ohio

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Characteristics and Challenges of a National Digital Archive

Common Characteristics

- ❑ infrastructure
- ❑ interoperability
- ❑ digital resources representative of cultural heritage
- ❑ public education supported
- ❑ research capability improved
- ❑ integration of all formats: text, image, audio/visual, GIS – born digital and reformatted

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Characteristics and Challenges of a National Digital Archive

Common Challenges

- ❑ funding
- ❑ cooperative relationships
- ❑ how to get started
- ❑ formulating a plan

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Implications for Canada

- ❑ much has been done in many areas by diverse institutions
- ❑ grass roots approach, fragmented
- ❑ missing major portions of Canadian heritage, material needed to support research
- ❑ define what is needed, develop a plan

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CIDL's Role

- ❑ could CIDL develop the plan?
- ❑ who else could/would take leadership?

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Thank You

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