

Content Management models: an overview

Patricia Liebetrau

Digital Resource Management from Data to Knowledge
21 – 23 July 2009, Durban, South Africa



Introduction

- ▶ Increasing digitisation efforts
 - Increasing data
 - Dispersed digital projects / collections
 - Digital libraries
 - Cross institutional subject repositories
- ▶ New models for digital content management
- ▶ Interoperable digital libraries
- ▶ Networked infrastructure – harvesting protocols

Considerations ... 1

► Proprietary software?

- Licence fees
- Customer support
- Low IT expertise required
- Upgrades – extra cost?
- Warranty/ maintenance?

► Open source software?

- Free downloadable source software
- Customisation – hidden costs
- IT expertise – good user documentation
- Community support
- Open standards
- Software tools (parsing/editing/transforming/validating)

Considerations ... 2

► Content Management software packages

- Greenstone
- DSpace
- EPrints
- Fedora
- Joomla
- Drupal
- Many others

► Modular DIY

- Open source database – Postgress, MYSQL
- Folder structures
- Online input forms (DC and METS)

Online input form

DISA - Dublin Core Metadata Generator - Windows Internet Explorer

http://www.disa.ukzn.ac.za:8081/dcform/dublincore.jsp

DISA - Dublin Core Metadata Generator

DISA - Dublin Core Metadata Generator

Please fill in the relevant fields, making use of the drop down lists where applicable. Once you have completed the form, press the Preview the Dublin Core Record button once.

Title(required)

Identifier(required)

Repository Collection Folder

Creator *Enter one per field*

[Add another value](#)

Contributor *Enter one per field*

[Add another value](#)

Publisher

Description(required) (You may enter up to 900 characters.)

900 characters still available

Done

Internet | Protected Mode: On

100%

Considerations ... 3

► Open access

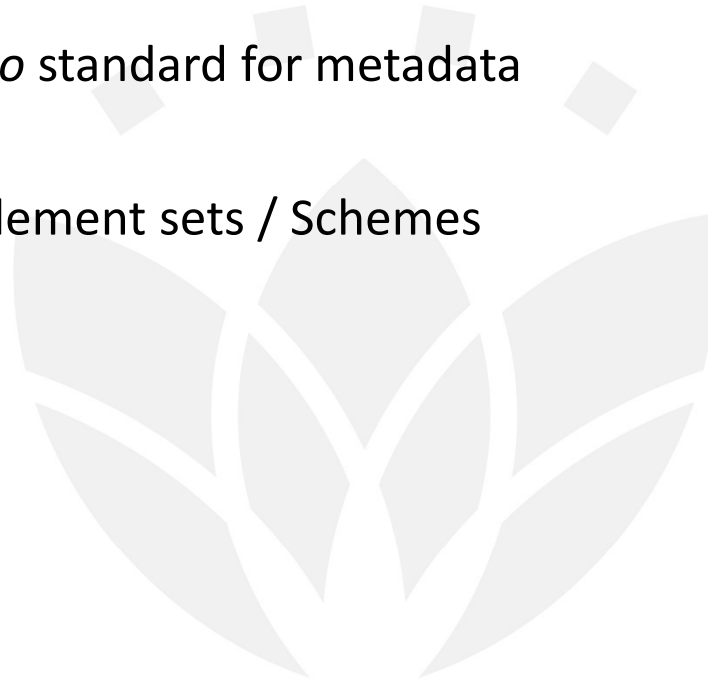
- Metadata and full text available without restrictions
- No downloading charges
- Social networking services – delicious, twitter,
- Openness of attitude
- Core functions of HEI

► Closed access and subscription based

- Restricted access to the site
- Restricted access to full text
- Abstracts available, full text access requires subscription
- Annual subscriptions – individual or institution

International standards

- ▶ XML is the *lingua franca* of the web
- ▶ XML *de facto* standard for metadata
- ▶ Metadata element sets / Schemes



Community standards

- ▶ Archival Community
 - EAD?
- ▶ Heritage Community
- ▶ Arts and culture
- ▶ Literature
 - TEI?
- ▶ Institutional Repositories
 - Dspace
 - Eprints
- ▶ Small digital projects especially non-web access and distribution
 - Greenstone



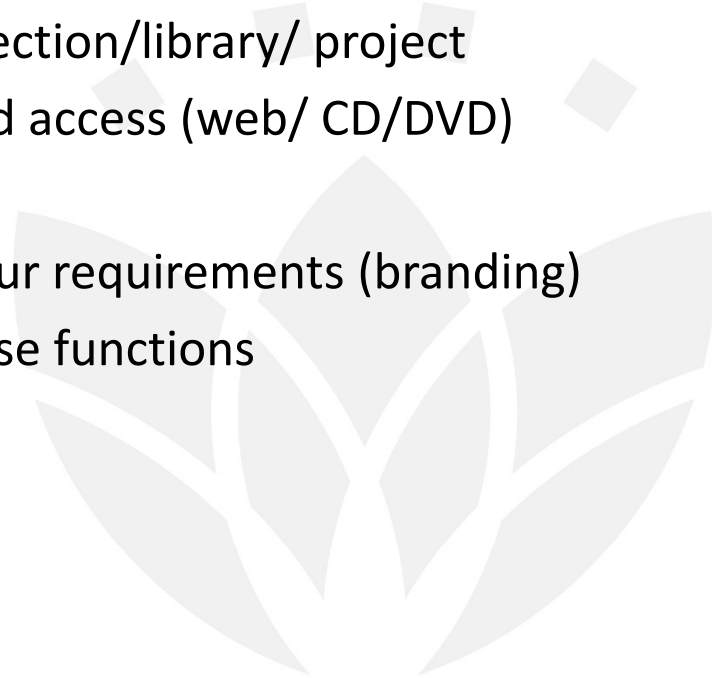
We are doing things differently

African context – issues to consider

- ▶ Available resources
- ▶ Expertise – especially IT
- ▶ Open source software
- ▶ Extensibility
- ▶ Interoperability
- ▶ Robustness and stability
- ▶ Access (web or other medium such as DVD and CD)
- ▶ Sustainability
- ▶ Bandwidth

Greenstone

- ▶ A suite of software
- ▶ Open source (community development)
- ▶ Build digital collection/library/ project
- ▶ Management and access (web/ CD/DVD)
- ▶ Add metadata
- ▶ Customise for your requirements (branding)
- ▶ Search and browse functions



greenstone digital library software

[en](#) [fr](#) [ru](#) [es](#) [ro](#) [ar](#)[Home](#) [Download](#) [Examples](#) [Wiki](#) [Support](#) [Developers](#)[Greenstone Blog](#)[Planet Greenstone](#)[Calendar](#)[Workshop Map](#)[NEW: Greenstone User \(& Developer\) Survey](#)

Wednesday 17th June, 2009

Category: Greenstone2

Please take the Greenstone User Survey! 10-15 minutes of your time can help us learn more about Greenstone software users and developers. With your help, we will gain a better understanding of Greenstone software and support resource use and satisfaction; in what ways Greenstone users interact with and use the software; and the organizational and [...]

[Expanding the Southern African Greenstone Support Network](#)

Notice: Greenstone Survey On Now

If you work with Greenstone Digital Library Software in any way, including to:

- *Develop digital library collections;*
- *Teach about digital libraries;*
- *Learn about digital libraries;*
- *Develop language interfaces for Greenstone;*
- *Develop other functionalities or code for Greenstone;*
- *Disseminate or otherwise support use of Greenstone,*

You are eligible to participate in this research study.

The survey, and more information about it, are available online:

<http://greenstonesurvey.wordpress.com/infosheet/>

Laura Sheble, in collaboration with study co-investigators Ian H. Witten, Repke de Vries, and Ron Brown, are conducting this research to learn more about:

- *The organizational and technical contexts in which organizations and individuals use Greenstone Digital Library Software;*
- *How support resources are used by Greenstone users; and*
- *How current help resources can be improved to meet user needs.*

SAMAP

South African Music Archive Project

SAMAP2 - Windows Internet Explorer

http://www.disa.ukzn.ac.za/index.php?option=com_content&view=article&id=76&Itemid=70

Google

SAMAP2

Search

Quick collection search Go

Main Menu

- Home
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- Browse collection

About Disa

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- Our partners
- Terms and conditions
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Hosted Projects

Hosted Projects

Resources

- Guidelines
- Dublin Core Input Form
- Talking Drum
- Workshop Registration
- Workshop

e-Resources

- AJOL
- Ariadne

SAMAP2

SAMAP
South African Music Archives Project
University of KwaZulu-Natal

DISA Digital Innovation South Africa
unlocking resources for research

This project offers five collections for research at this time:

- [Chris Ballantine Collection](#)
- [Jurgen Brauning Collection](#)
- [Hidden Years Music Archive Project](#) (HYMAP)
- [International Library of African Music](#) (ILAM)
- [University of KwaZulu Natal Music Library](#)

BACKGROUND TO THE PROJECT

Much of South Africa's music heritage, like that of our political past, is hard to access. Just as people and books were banned and censored, so too was music, sometimes along with the musicians who made it. Much of the material recorded was politically sensitive, or subversive; some of it was never commercially released, and has remained hidden, even forgotten. Troves of local recorded music await identification, digitisation and research.

Independent music archives currently lack the infrastructure to preserve their historical collections. An immediate concern is the deterioration of analogue tapes, records and other obsolete media on which much of this material is stored. Among other pressing concerns are the fading memories and sheer mortality of those who were involved.

The project aims to create an online resource on South African music and associated cultural heritage, so as to promote multidisciplinary research in the field of popular music and culture. Now entering its second year, the project offers research opportunities to a wide range of disciplines, including music, English, library and information studies, cultural and media studies, history, politics, law, and education.

Choose language

Select Language

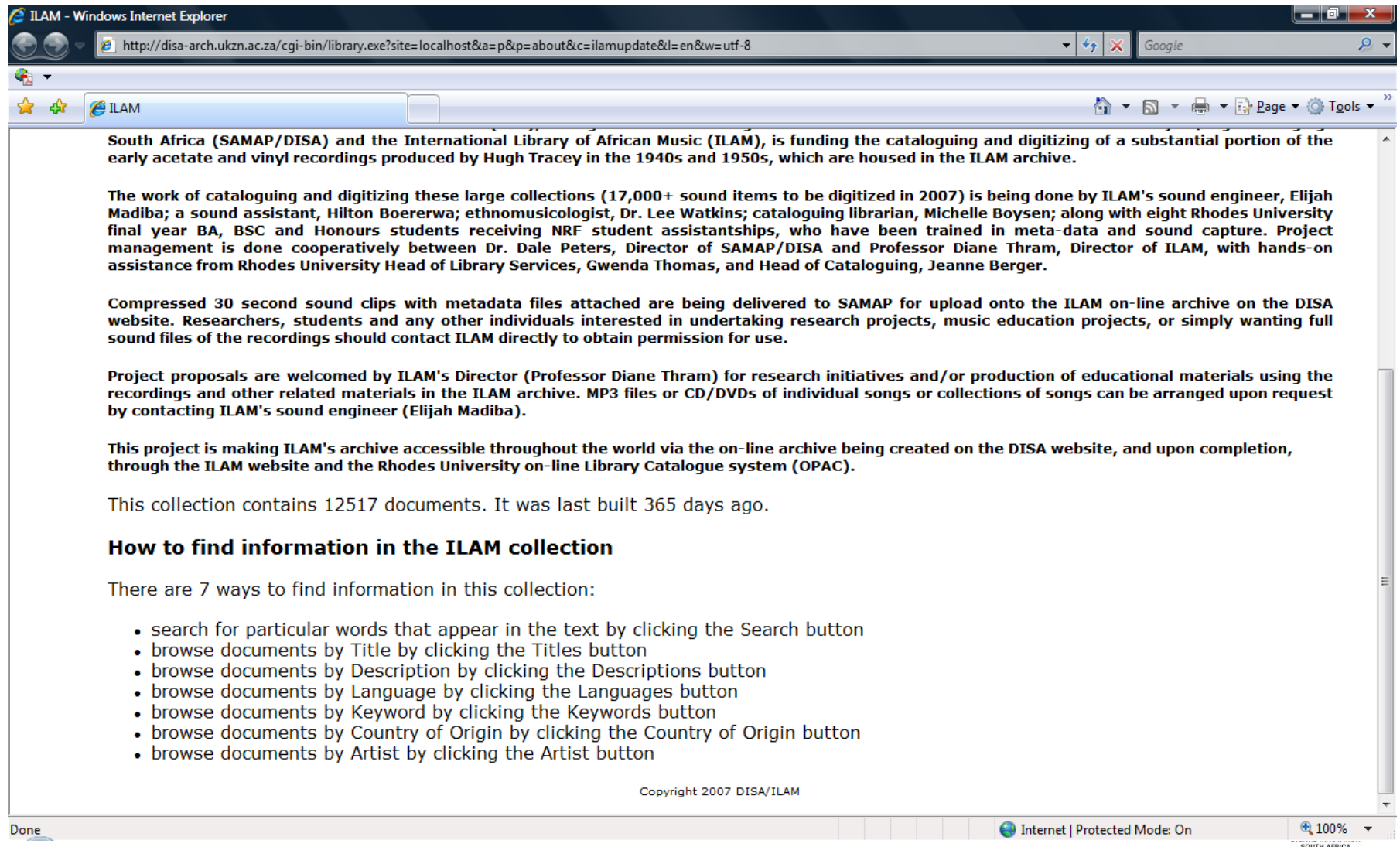
DISA Staff

Done

Internet | Protected Mode: On

100%

Search and browse functions



The screenshot shows a Windows Internet Explorer browser window with the address bar displaying the URL: `http://disa-arch.ukzn.ac.za/cgi-bin/library.exe?site=localhost&a=p&p=about&c=ilamupdate&l=en&w=utf-8`. The page title is "ILAM - Windows Internet Explorer". The main content area contains the following text:

South Africa (SAMAP/DISA) and the International Library of African Music (ILAM), is funding the cataloguing and digitizing of a substantial portion of the early acetate and vinyl recordings produced by Hugh Tracey in the 1940s and 1950s, which are housed in the ILAM archive.

The work of cataloguing and digitizing these large collections (17,000+ sound items to be digitized in 2007) is being done by ILAM's sound engineer, Elijah Madiba; a sound assistant, Hilton Boererwa; ethnomusicologist, Dr. Lee Watkins; cataloguing librarian, Michelle Boysen; along with eight Rhodes University final year BA, BSC and Honours students receiving NRF student assistantships, who have been trained in meta-data and sound capture. Project management is done cooperatively between Dr. Dale Peters, Director of SAMAP/DISA and Professor Diane Thram, Director of ILAM, with hands-on assistance from Rhodes University Head of Library Services, Gwenda Thomas, and Head of Cataloguing, Jeanne Berger.

Compressed 30 second sound clips with metadata files attached are being delivered to SAMAP for upload onto the ILAM on-line archive on the DISA website. Researchers, students and any other individuals interested in undertaking research projects, music education projects, or simply wanting full sound files of the recordings should contact ILAM directly to obtain permission for use.

Project proposals are welcomed by ILAM's Director (Professor Diane Thram) for research initiatives and/or production of educational materials using the recordings and other related materials in the ILAM archive. MP3 files or CD/DVDs of individual songs or collections of songs can be arranged upon request by contacting ILAM's sound engineer (Elijah Madiba).

This project is making ILAM's archive accessible throughout the world via the on-line archive being created on the DISA website, and upon completion, through the ILAM website and the Rhodes University on-line Library Catalogue system (OPAC).

This collection contains 12517 documents. It was last built 365 days ago.

How to find information in the ILAM collection

There are 7 ways to find information in this collection:

- search for particular words that appear in the text by clicking the Search button
- browse documents by Title by clicking the Titles button
- browse documents by Description by clicking the Descriptions button
- browse documents by Language by clicking the Languages button
- browse documents by Keyword by clicking the Keywords button
- browse documents by Country of Origin by clicking the Country of Origin button
- browse documents by Artist by clicking the Artist button

Copyright 2007 DISA/ILAM

The browser's status bar at the bottom shows "Done", "Internet | Protected Mode: On", and "100%".

Metadata display


TP0680-XYZT4049 - Windows Internet Explorer

http://disa-arch.ukzn.ac.za/cgi-bin/library.exe?e=d-01000-00---0ilamupdate--00-1--0-10-0---0---0prompt-10---4-----0-11--11-en-50---20-about---00-3-1-00-00: Google

TP0680-XYZT4049

search titles descriptions languages keywords country of origin artist

Abiti mpoya

 [Abiti mpoya](#)

Title: Abiti mpoya

Artist: Composer not specified ; Elefanti Katungwe (Performer)

Keywords: Town dance ; Dance song ; Bangwe ; Board Zither Zither ; Singing reed ; Kazoo ; Bottle

Description: Further details refer ILAM Shellac record number: TP0680

Publisher: International Library of African Music

Contributor: Yao men (Performer)

Date: 1949-07-30

Genre: Southern African music

Format: 78 RPM shellac record ; 00:02:32 ; Sound Forge V.8 ; Technics SP - 10 MK II direct drive turntable ; Vestax BDT - 2500 belt drive turntable ; Studer Revox Interface SP 10-8

Identifier: TP0680-XYZT4049

Source: Shellac record number: TP0680 ; Master number: XYZT4049 ; ILAM number: 9562 ; ILAM number: 8050 ; Library number: 1158 ; Research number: C3R-21 ; Recording number: 4049 ; Tape number: 63

Language: Yao

Relation: TP0680

Coverage: Malawi ; Nyasaland

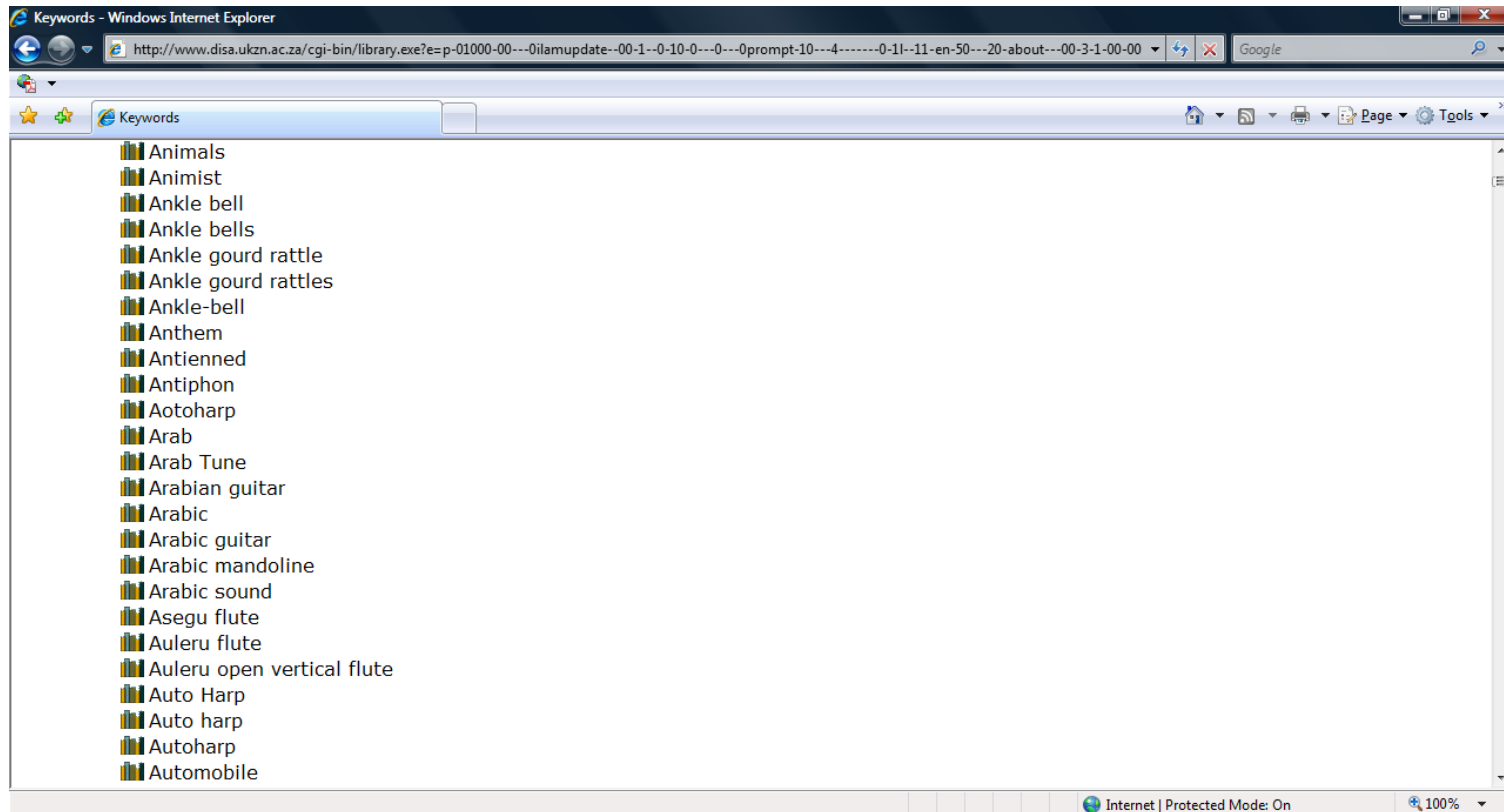
Copyright 2007 DISA/ILAM

Done

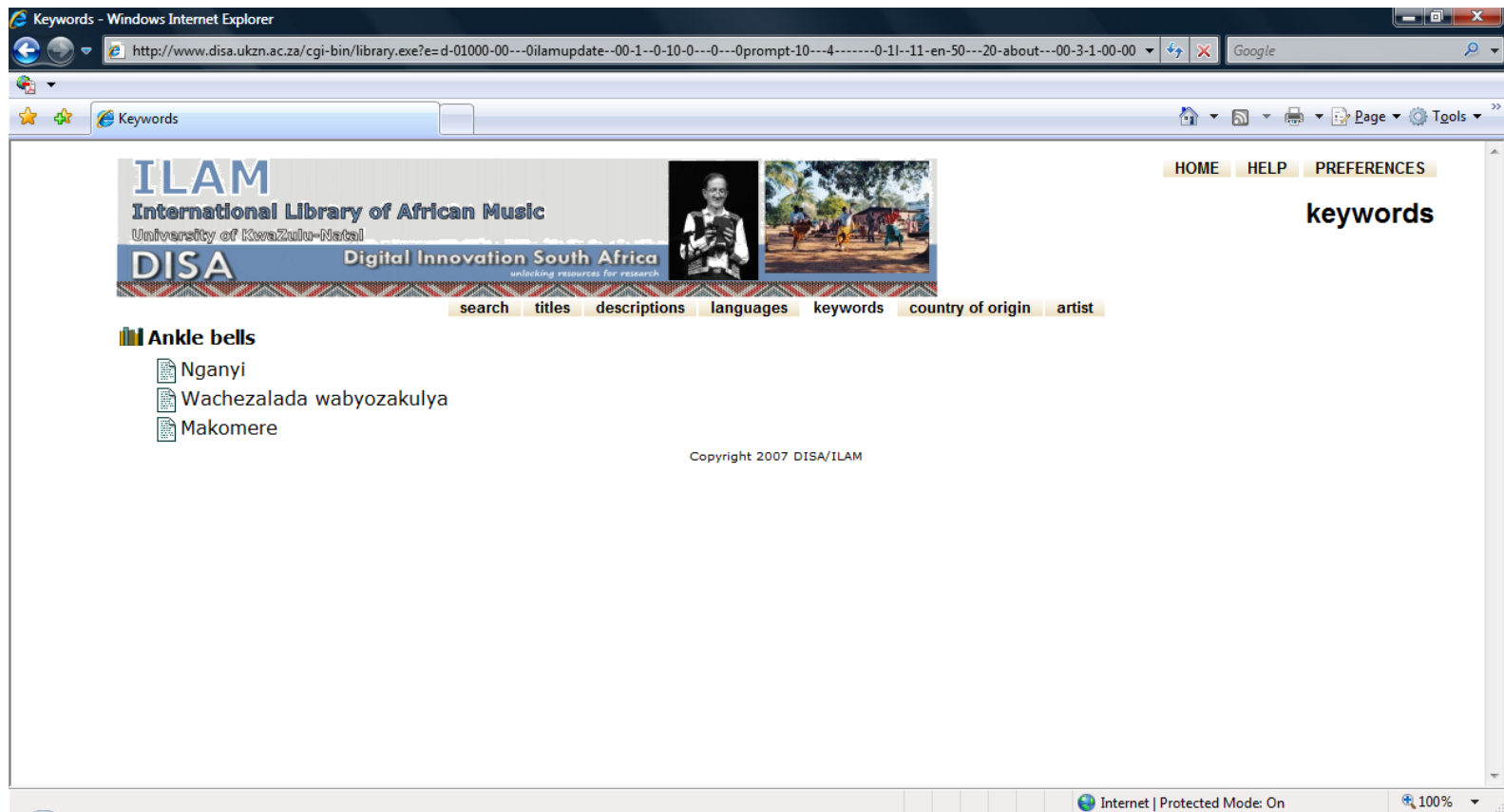
Internet | Protected Mode: On

100% SOUTH AFRICA

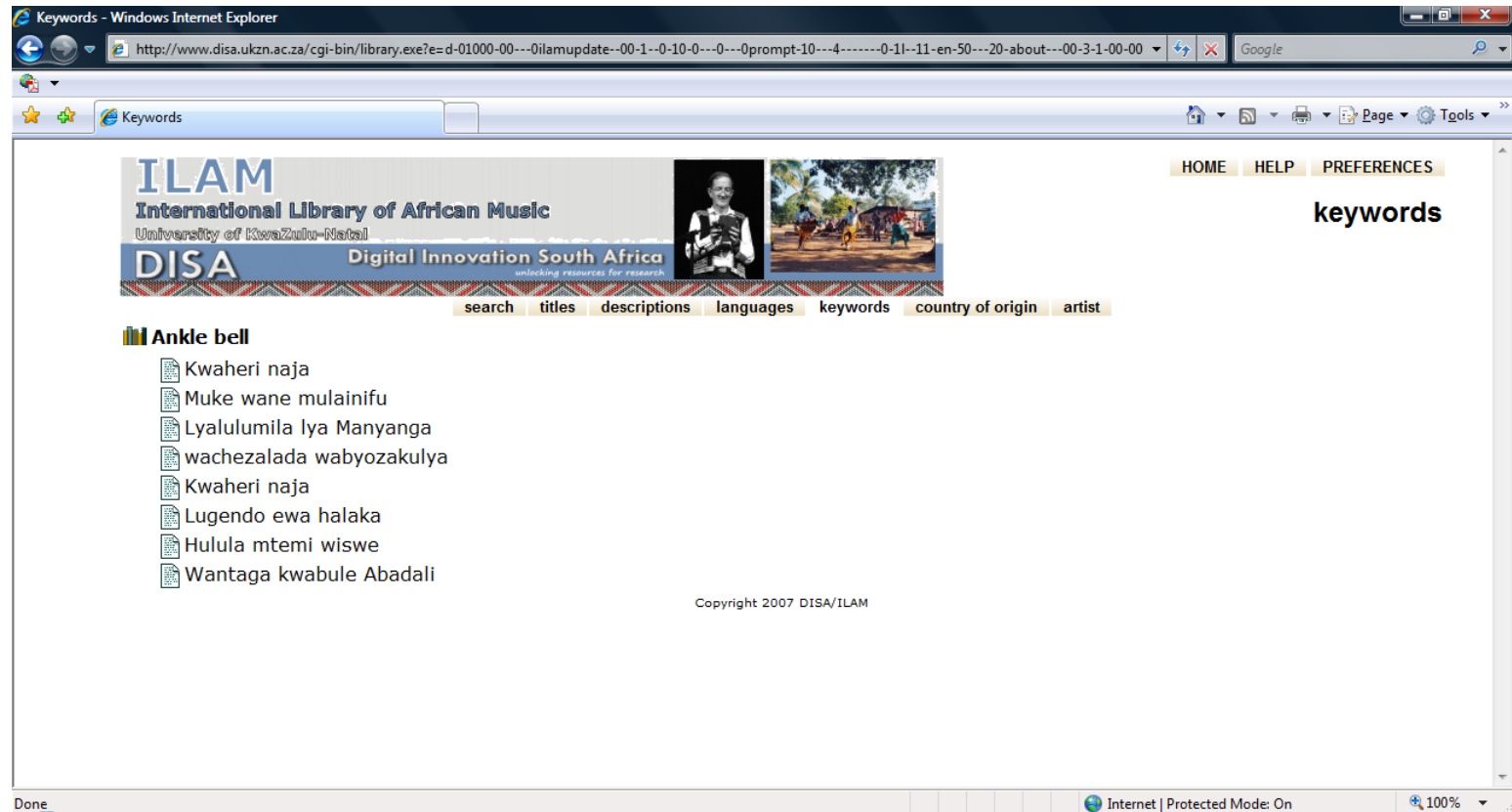
Subject keywords



Ankle bells



Ankle bell



Overview of Greenstone

► Positive:

- Ease of startup
- Community support
- CDs/DVDs for distribution, exchange, sales, promotion



Overview of Greenstone

► Positive:

- Ease of startup
- Community support
- CDs/DVDs for distribution, exchange, sales, promotion

► Drawbacks:

- Extensibility and robustness limitations
- Customisation time consuming
- Large collections → long builds
- Interoperability limitations
- Precise searching → unsatisfactory search results

Institutional Repository development

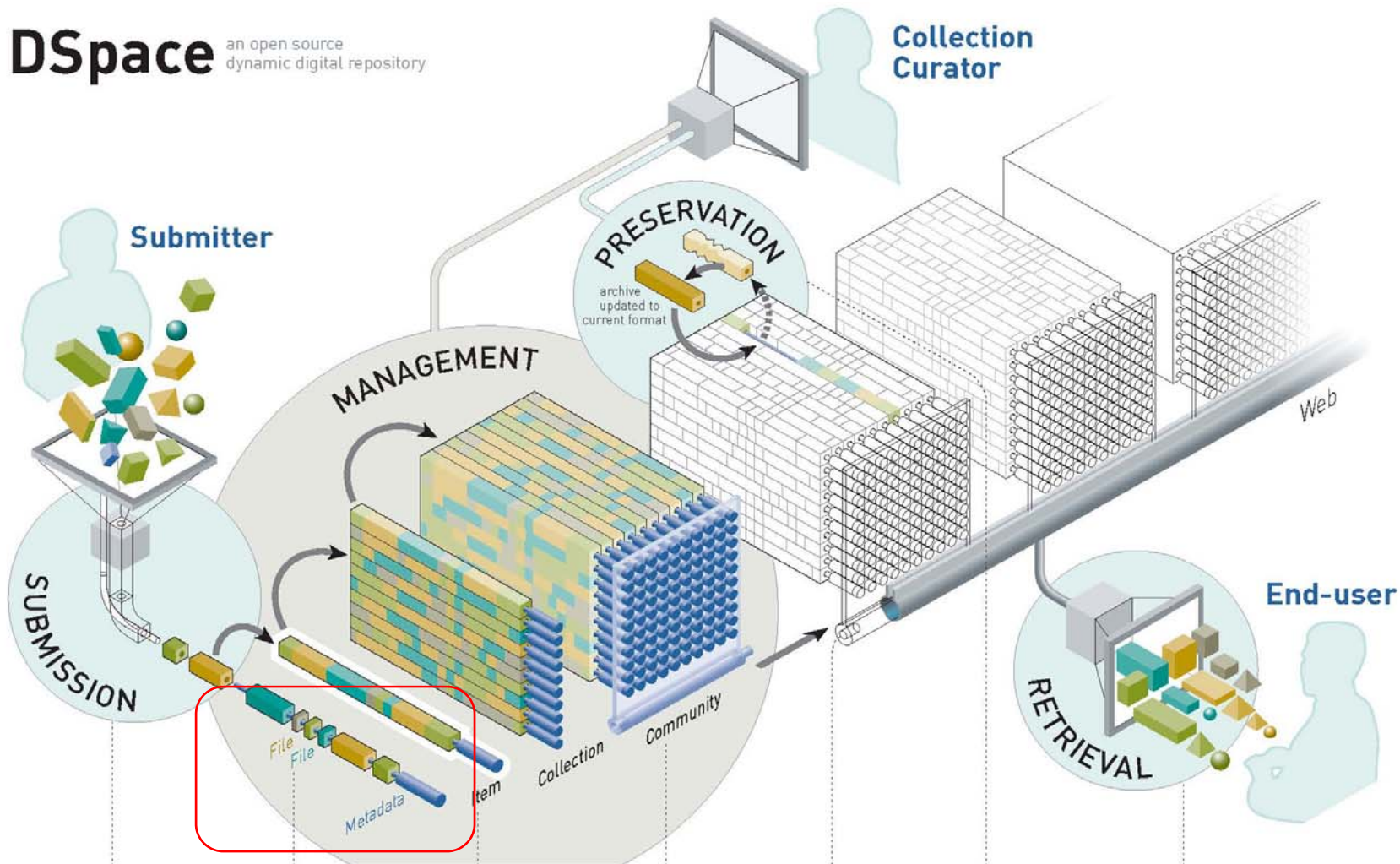
- ▶ Research output
 - Students
 - Theses
 - Staff
 - Pre-prints and academic research papers
 - Research data sets
 - Conference papers
 - Coursework
 - Examination papers
- ▶ In Africa 24+
- ▶ In SA 16+
- ▶ Most popular content management software is DSpace

What is D-Space?

- ▶ Open source software
- ▶ Suite specifically designed for Institutional Repositories
- ▶ Development and management
- ▶ Based on international standards
- ▶ Interoperability

DSpace

an open source
dynamic digital repository



1 Web-based interface makes it easy for a submitter to create an archival item by depositing files. DSpace was designed to handle any format from simple text documents to datasets and digital video.

2 Data **files**, also called bitstreams, are organized together into related sets. Each bitstream has a technical format and other technical information. This technical information is kept with the bitstreams to

3 An **item** is an "archival atom" consisting of grouped, related content and associated descriptions (**metadata**). An item's exposed metadata is indexed for browsing and searching. Items are organized into **collections** of logically-related material.

4 A **community** is the highest level of the DSpace content hierarchy. They correspond to parts of the organization such as departments, labs, research centers or schools.

5 DSpace's modular architecture allows for creation of large, multi-disciplinary repositories that ultimately can be expanded across institutional boundaries.

6 DSpace is committed to going beyond reliable file preservation to offer **functional preservation** where files are kept accessible as technology formats, media, and paradigms evolve over time for as many types of files as possible.

7 The end-user interface supports browsing and searching the archives. Once an item is located, Web-native formatted files can be displayed in a Web browser while other formats can be downloaded and opened with a suitable application program.

Subject repositories

- ▶ Responsibility of libraries, archives and museums, as aggregators of research resources, to organise diverse information for online resource discovery.
- ▶ Subject repositories may span across several collaborating institutions
- ▶ Potential component of developing an digital repository model that offers an alternative structure of scholarly communication in South Africa.

Digital subject repository

“Digital archives or digital libraries which collect and manage resources relating specifically to one or more subjects”.

DISA browse according to type of resource

The screenshot shows the 'Browse collection' page of the Digital Innovation South Africa (DISA) website. The browser is Internet Explorer, displaying the URL http://www.disa.ukzn.ac.za/index.php?option=com_content&view=article&id=478&Itemid=55. The page layout includes a left sidebar with navigation menus, a central alphabetical resource list, and a right sidebar with user options and visitor information.

Search
Quick collection search

Main Menu
[Home](#)
[Advanced Search](#)
[Browse collection](#)

About Disa
[About us](#)
[DISA committee](#)
[Our partners](#)
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[Contact us](#)

Hosted Projects
[Hosted Projects](#)

Resources
[Guidelines](#)
[Dublin Core Input Form](#)

e-Resources
[Ariadne](#)
[Code4Lib](#)

Alphabetical Resource List:

A	B	C
Affidavits	Biographies	Circulars
Articles	Books	Conference Papers
	Briefs (Legal Documents)	Constitutions
		Correspondence

E	I	J
Essays	Interviews	Journal articles
		Journal issues
		Journals

L	M	N, O
Legislation	Maps	Newsletters
Letters	Memorandums	Oral Histories
	Minutes	
	Music	

P	R, S	T, V
Paintings	Reports	Testimonies
Pamphlets	Resolutions	Theses
Photographs	Sketchbooks	Transcripts
Poetry	Speeches	Trial Proceedings
Policy documents		Videos
Press articles		
Press Releases		
Proceedings		
Programs		

Choose language
Select Language

DISA Login
Username
Password

[Forgot Password?](#)
[Register](#)

Visitor Data
Your IP
41.208.11.176
South Africa :
Browser
Internet Explorer
Operating System
Windows

DISA Staff

© 2008 Digital Innovation South Africa
Site best viewed in Internet Explorer 5+ (1024 x 768)

Advanced search

DISA - Advanced Search Page - Windows Internet Explorer

http://www.disa.ukzn.ac.za/index.php?option=com_advsearch&view=advsearch&Itemid=54

Google

DISA - Advanced Search Page

Home About us Advanced search Browse collection Contact us

DISA

Digital Innovation South Africa

unlocking resources for research

Home → Advanced Search Tuesday - December 09, 2008

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Quick collection search

Main Menu

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Hosted Projects

- Hosted Projects

ADVANCED SEARCH

Title

Creator

Keyword

Year (from)

Year (to)

Resource type

Text

© 2008 Digital Innovation South Africa

Site best viewed in Internet Explorer 5+ (1024 x 768)

Done

Internet | Protected Mode: On 100%

Metadata and full text

Digital Innovation South Africa - Windows Internet Explorer

http://www.disa.ukzn.ac.za/index.php?option=com_displaydc&recordID=SpDec88.1684.5161.000.022.Dec1988.4

Digital Innovation South Africa

Click on the images to view or click Back to return to the previous page.

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Quick collection search Go

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Hosted Projects

- Hosted Projects

Resources

- Guidelines
- Dublin Core Input Form

e-Resources

- Ariadne
- Code4Lib
- D-Lib Magazine

We Are Dying, My Child

Women from Pietermaritzburg talk about the war

Title We are dying, my child: women from Pietermaritzburg talk about the war

Creator

Contributor

Publisher

Date 1988-12-00

Resource type Journal articles

Language eng

Keywords PHOTOGRAPHS, VIOLENCE, , POETRY, CONGRESS OF SOUTH AFRICAN TRADE UNIONS, INKATHA

Coverage SOUTH AFRICA

Source Article in Speak Number 22 December 1988

Extent 6 page(s)

Description

Relation Article in Speak Number 22 December 1988 pages 4 to 9

Digital rights

[View PDF](#)

[Bookmark this link](#)

[Go back](#)

[Back](#)

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Site best viewed in Internet Explorer 5+ (1024 x 768)

Internet | Protected Mode: On 100%

Digital content management

- ▶ MySQL
- ▶ Metadata Input online input form
- ▶ Folder structure
- ▶ Joomla – web content management
- ▶ Fedora – content management

Fedora

- ▶ Open source
- ▶ IT expertise for customisation
- ▶ Community user support
- ▶ Collaboration initiative between D-Space and Fedora
- ▶ Interoperability
- ▶ Lightweight customisation development

Web site management software

► Open source

- Joomla
- Drupal

► Templates

- Home page design
- Colours
- Liquid screen
- Customisable for branding and logos
- Authentication for confidentiality

► Modules

- Upload documents
- RSS feeds
- User

DISA: Digital Innovation South Africa

Welcome to DISA - Windows Internet Explorer

http://www.disa.ukzn.ac.za/

Welcome to DISA

Home About us Advanced search Browse collection Contact us

DISA

Digital Innovation South Africa

unlocking resources for research

Home Wednesday - December 03, 2008

Search

Quick collection search

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Hosted Projects


Hosted Projects

WELCOME TO DISA

DISA is a freely accessible online scholarly resource focusing on the socio-political history of South Africa, particularly the struggle for freedom during the period from 1950 to the first democratic elections in 1994, providing a wealth of material on this fascinating period of the country's history. Much time, creative thought and debate goes into the selection of the content, and participation and input from interested persons, scholars and institutions in South Africa and overseas is encouraged.

[Read more](#)

South Africa mourns the loss of our "MAMA AFRICA"

 Miriam Makeba, world-renowned South African singer and anti-apartheid activist, born March 4 1932 in Johannesburg, has passed on after collapsing on stage at a concert in Naples, Italy on November 10 2008. The concert was a tribute to six immigrants who were shot dead in Ghana last September. Miriam Makeba was outspoken and opposed the apartheid system and lived in exile for 31 years. Hamba Kahle Mama Africa....

Featured content

CHURCHES SERVICE TO SUPPORT OF
6 AUGUST 2008
AND CHURCHES HUMANITARIAN ATTRACTION
10-11-08-08-08-08-08

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Choose language

Select Language

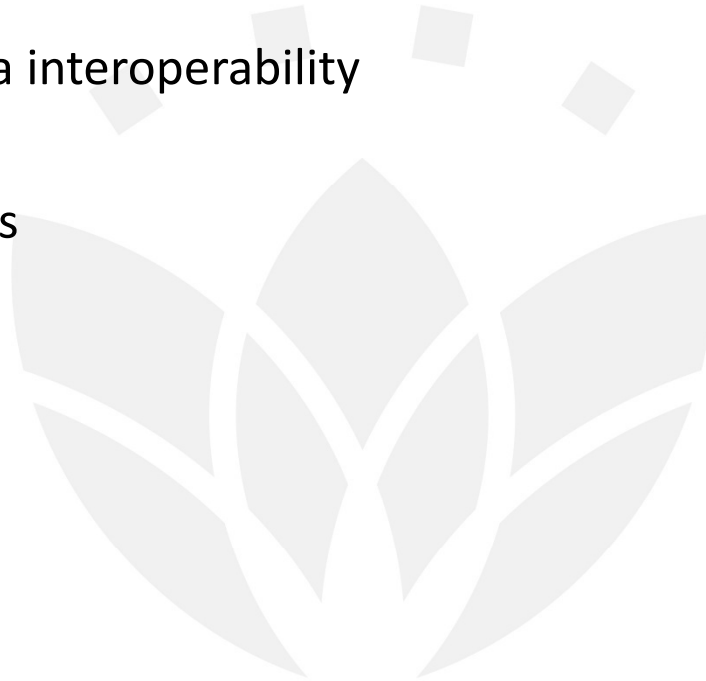
DISA Login

Username

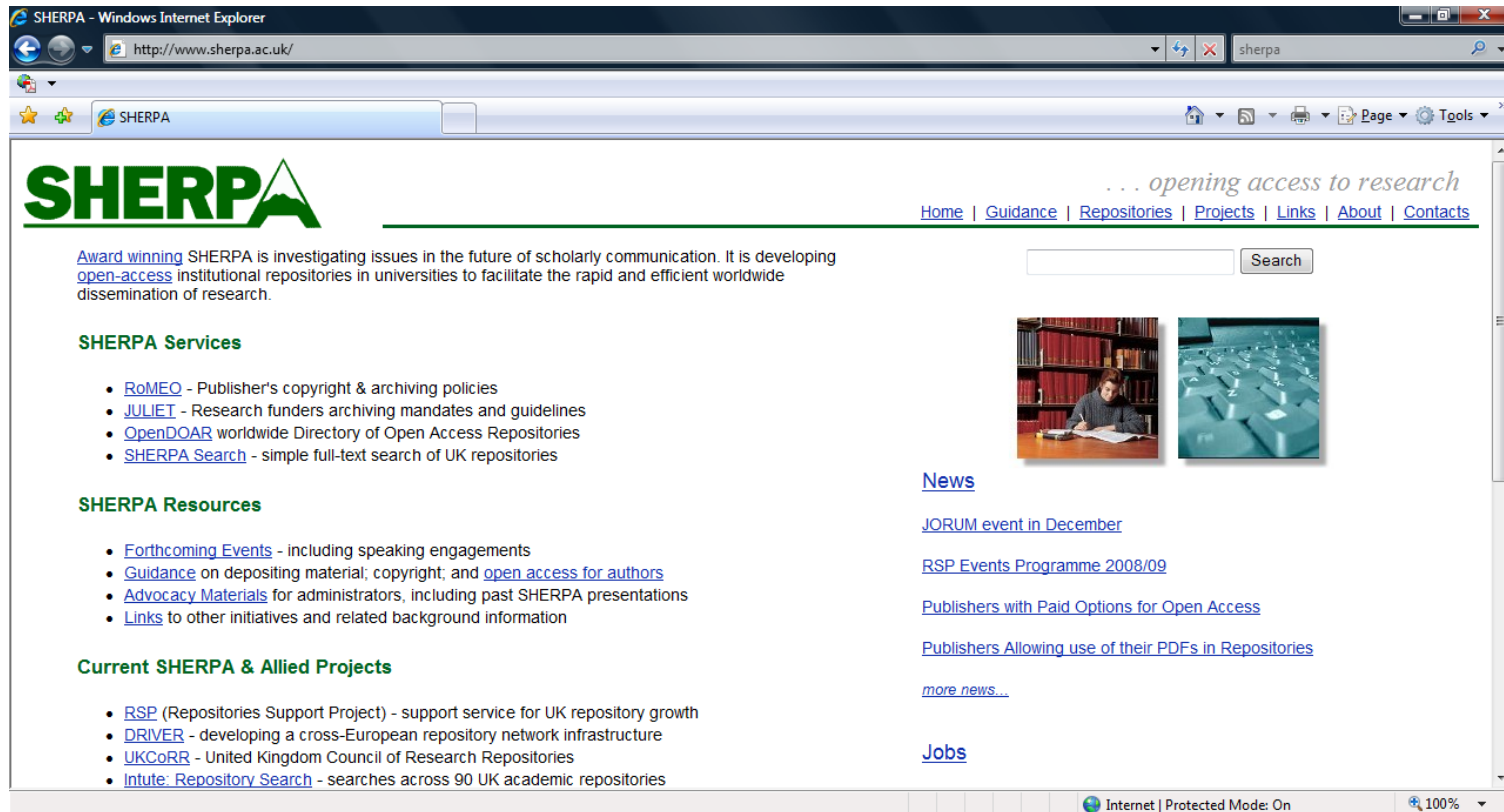
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Networks

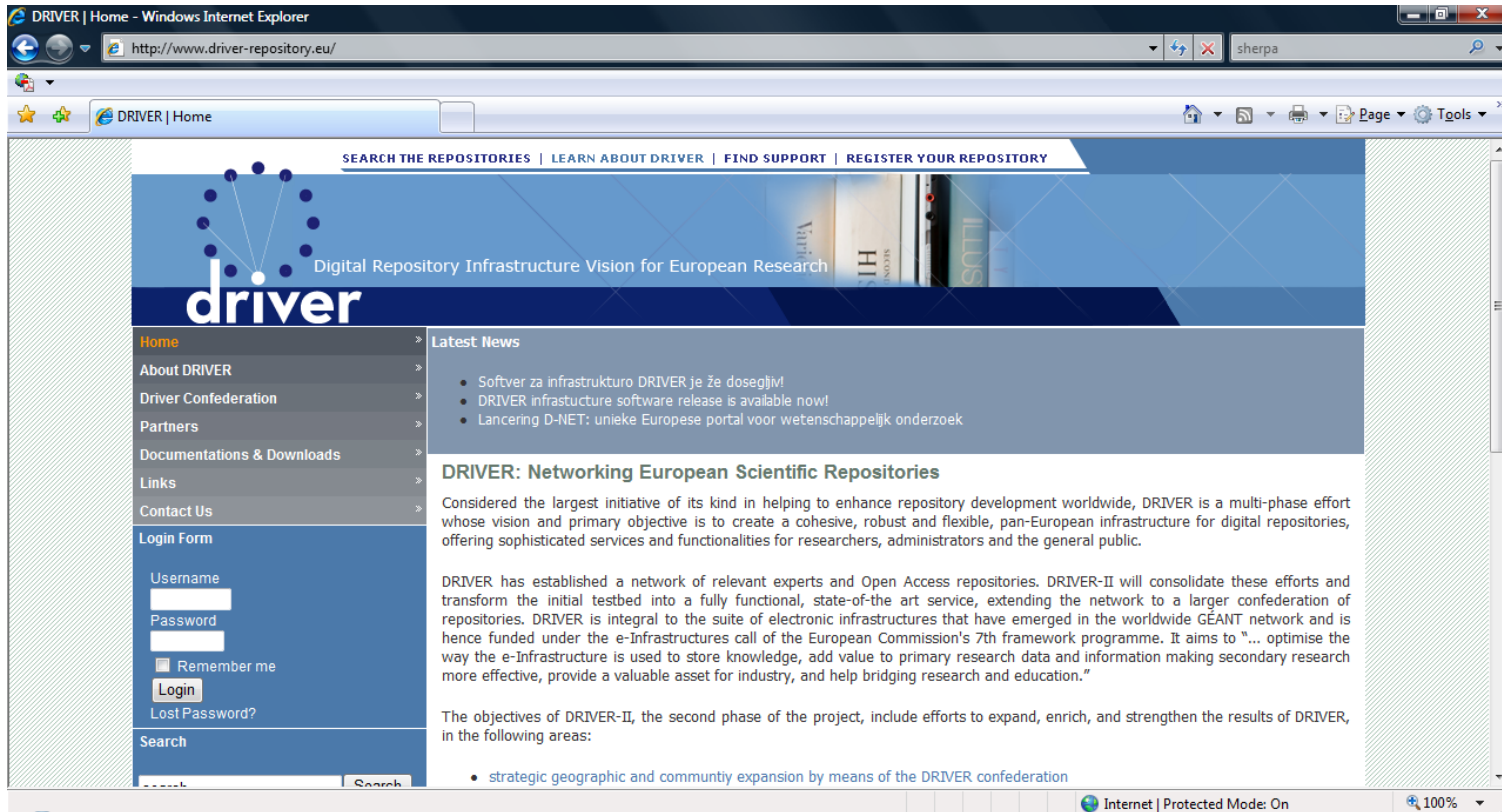
- ▶ Development of cross-repository infrastructures
- ▶ Metadata interoperability
- ▶ Standards



SHERPA



DRIVER



OpenDOAR

OpenDOAR - Home Page - Directory of Open Access Repositories - Windows Internet Explorer

http://www.opendoar.org/

OpenDOAR

OpenDOAR - Home Page - Directory of Open Ac...

OpenDOAR

Directory of Open Access Repositories

Home | Find | Suggest | Tools | FAQ | About | Contact Us

The Directory of Open Access Repositories - OpenDOAR

[Search for repositories](#) | [Search repository contents](#) | [List of repositories](#) | [Repository Statistics](#)

OpenDOAR is an authoritative directory of academic open access repositories. Each OpenDOAR repository has been visited by project staff to check the information that is recorded here. This in-depth approach does not rely on automated analysis and gives a quality-controlled list of repositories.

As well as providing a simple [repository list](#), OpenDOAR lets you [search for repositories](#) or [search repository contents](#). Additionally, we provide tools and support to both repository administrators and service providers in sharing best practice and improving the quality of the repository infrastructure. Further explanation of these features is given in a project document [Beyond the list](#).

The current directory lists repositories and allows breakdown and selection by a variety of criteria - see the [Find](#) page - which can also be viewed as [statistical charts](#). The underlying database has been designed from the ground up to include in-depth information on each repository that can be used for search, analysis, or underpinning services like text-mining. The OpenDOAR service is being developed incrementally, developing the current service as new features are introduced. A list of [Upgrades and Additions](#) is available.

Developments will be of use both to users wishing to find original research papers and for service providers like search engines or alert services which need easy-to-use tools for developing tailored search services to suit specific user communities.

The importance and widespread support for the project can be seen in its funders, led by the [Open Society Institute](#) (OSI), along with the [Joint Information Systems Committee](#) (JISC), the [Consortium of Research Libraries](#) (CURL) and [SPARCEurope](#).

OpenDOAR has also been identified as a key resource for the Open Access community ([K B Oliver & R Swain 2006 - PDF](#)) and was one of the services which

OpenDOAR has over 1200 listings!

Growth of the OpenDOAR Database

Repositories by Continent

JISC OPEN SOCIETY INSTITUTE
CURL SPARCEurope

Internet | Protected Mode: On 100%

Implementation framework

- Administrative functions
 - Project management
 - Digital rights management
 - Staff
- Technical issues
 - Software platform
 - Data management
- Search services
 - Ingest
 - Search
 - Retrieval
- Content management
 - Ingest
 - Backups
 - Persistent archive

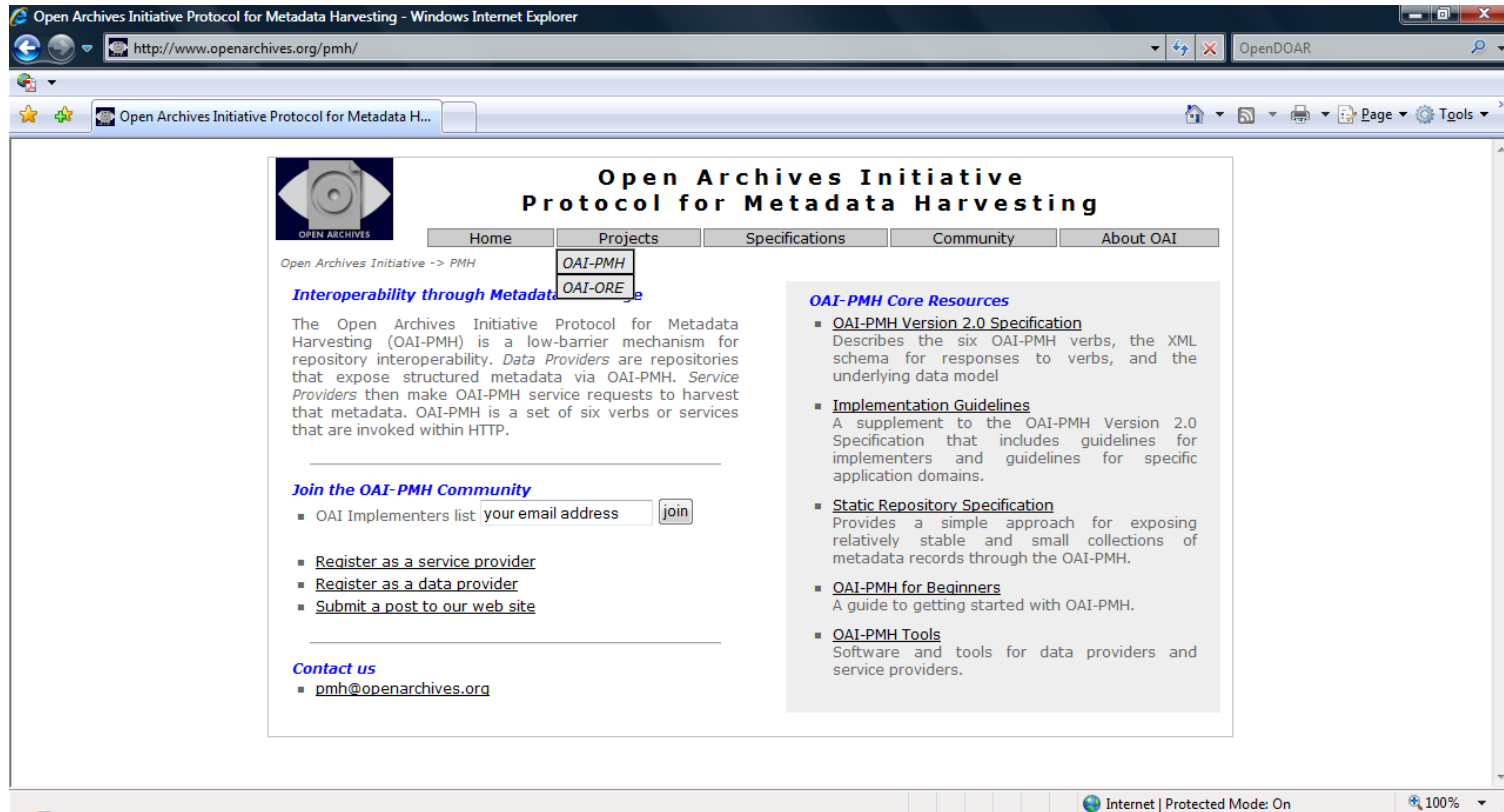


OAI-PMH

Harvesting Protocol

- Open Archives Initiative : Protocol for Metadata Harvesting
 - Standard for exchange of metadata
 - *Data providers* employ the OAI-PMH to expose structured data, *metadata*, in various forms.
 - *Service providers* use the OAI-PMH to harvest the metadata from data providers
 - Automatically process it and add value in the form of own services.
 - Measure of success in establishment of communities and/or research projects that collectively agree to adopt the protocol as a basis for information federation.
-
- HTTP protocol: <oai> GetRecord

OAI-PMH





OAI-ORE

Open Archives Initiative Protocol - Object Exchange and Reuse - Windows Internet Explorer

http://www.openarchives.org/ore/

Open Archives Initiative Protocol - Object Exchan...

**Open Archives Initiative
Object Reuse and Exchange**

Home Projects Specifications Community About OAI

OAI-PMH
OAI-ORE

Open Archives Initiative -> ORE

Aggregations of Web Resources

Open Archives Initiative Object Reuse and Exchange (OAI-ORE) defines standards for the description and exchange of aggregations of Web resources. These aggregations, sometimes called compound digital objects, may combine distributed resources with multiple media types including text, images, data, and video. The goal of these standards is to expose the rich content in these aggregations to applications that support authoring, deposit, exchange, visualization, reuse, and preservation. Although a motivating use case for the work is the changing nature of scholarship and scholarly communication, and the need for cyberinfrastructure to support that scholarship, the intent of the effort is to develop standards that generalize across all web-based information including the increasing popular social networks of "web 2.0".

ORE Specifications and User Guides

- [Table of Contents](#)
- [Primer](#)
- [User Guides](#)
 - [Resource Map Implementation in Atom](#)

Selected OAI-ORE Resources

- **OAI-ORE Production Release**

The production versions (v1.0) of the OAI-ORE specifications and implementation documents are now available to the public, with a table of contents page at <http://www.openarchives.org/ore/toc>. This public release is the culmination of several months of testing and review of initial alpha and beta releases. The participation and feedback from the wider OAI-ORE community, especially the OAI-ORE technical committee, was instrumental to the process leading up to this production release.
- **Foresite OAI-ORE Libraries**

The [Foresite](#) project is pleased to announce the initial code of two software libraries for constructing, parsing, manipulating and serialising OAI-ORE Resource Maps. These libraries are being written in Java and Python, and can be used generically to provide advanced functionality to OAI-ORE aware applications. The software is open source, released under a BSD licence, and is available from a [Google Code repository](#).

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Conclusions

- ▶ Select a CMS according to your needs
- ▶ Consider IT requirements
- ▶ Consider user community requirements
- ▶ Consider growth of your collection/repository/digital library
- ▶ Build for repository harvesting services
- ▶ Ensure interoperability
- ▶ Global repository networks

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Reference:

- ▶ The future of repositories? Patterns for (Cross-)Repository Architectures.
- ▶ <http://www.dlib.org/dlib/november08/aschenbrenner/11aschenbrenner.html>
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