

**Building online global access to African cultural heritage:
DISA – an appropriate model?**

Patricia Liebetrau DISA, South Africa
liebetrau@ukzn.ac.za
ICADLA-1 Addis Ababa, July 2009



DISA: Digital Innovation South Africa

- ▶ Pilot feasibility study
- ▶ Technological advancement
- ▶ Skills development
- ▶ Collaboration
- ▶ Open

DISA as a subject repository

Collect and manage resources relating specifically to one or more subjects and make available on-line

- ▶ Socio-political history
- ▶ Cultural heritage
- ▶ Scholarly
- ▶ Multimedia
- ▶ Support teaching and learning

DISA <http://www.disa.ukzn.ac.za>

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

Monday - June 29, 2009

Search

Quick collection search

Main Menu

- Home
- Advanced Search
- Browse collection

About DISA

- About us
- DISA committee
- Our partners
- Terms and conditions
- Contact us

Hosted Projects

- Hosted Projects

Resources

- Guidelines
- Dublin Core Input Form

DISA NewsFlash - Workshop : 21 July - 23 July 2009

Digital Resource Managment from data to knowledge : An overview of managing the digital cycle

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](#)

Latest Articles

Moses Mabhida

HAMBA KAHLE COMRADE
MOSES MABHIDA

FOR MM

THREE SHALL BE HOUSES SECURITY AND COMFORT FOR ALL
ABOLISH

Choose language

Select Language

DISA Staff

Login Form

Username

Internet | Protected Mode: On 100%

Substantial content

- ▶ 15 TB data
- ▶ 220,000 pages of digitized text
- ▶ 22,000 journal articles
- ▶ 4000 posters
- ▶ 1500 MP3s
- ▶ 50 journal titles
- ▶ 50 videos

Challenges

- ▶ Resistance to digitization initiatives
- ▶ Lack of national digitization policy
 - Hindrance to collaborative initiatives
- ▶ Misunderstandings about digital copyright
- ▶ Lack of institutional capacity
 - Human resources
- ▶ Lack of skilled professionals
 - Programmers + library skills
 - Metadata creators
- ▶ Content selection



Building expertise in digital technologies

- ▶ Training
- ▶ Skills development
 - Digital conversion
 - Metadata
 - IT for digital libraries
 - IP for digital resources
- ▶ Content management systems
- ▶ Workshops
- ▶ Practical training

Scholars' selection process

- ▶ Overall subject architecture
 - Scholars expertise and knowledge
 - Selection from collections across institutions
 - Networking and collaboration

- ▶ Drawbacks
 - Costly
 - Slow despite incentives
 - No copyright permissions → no digitization
 - Institutional refusal to digitize

Production

▶ **Centralised** production

- Journal digitization
- Centralised skills development

▶ **Decentralised** production

- Archival materials
- Roll-out of skills
- Remote management
- Human resources – professionals and students

▶ Data transfer

- Narrow bandwidth issues
- Large archival files
- Courier services

digitization permissions


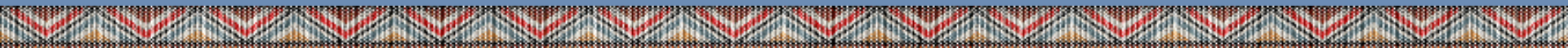
- ▶ Tracking owners
 - ▶ Documenting the process
 - ▶ Risk assessment - decisions
 - Best efforts
 - Fair dealing
 - Public domain
 - Ethical considerations
 - Disclaimers
 - ▶ digitization permissions
 - ▶ No national and institutional policies
-
- ▶ Lack of clearly defined parameters within South African law
 - ▶ Lack of knowledge/understanding of digital copyright issues

Openness

- ▶ Open source
 - software where the source code is available for modification
- ▶ Open standards
 - specifications
- ▶ Open access
 - access to resources made available without fees or cost



Building for resource networks

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

Moving beyond isolated repositories to a Global Knowledge Society

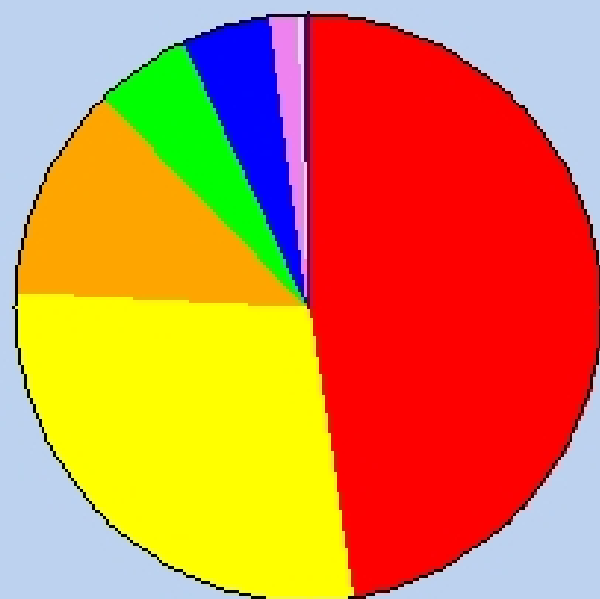
- ▶ Repository networks
 - National
 - Regional
 - International

- ▶ Implementing OAI-PMH
 - Data providers
 - Service providers
 - Access to full text

- ▶ Implementing social networking
 - Web 2.0 and 3.0 technologies

Repositories by continent

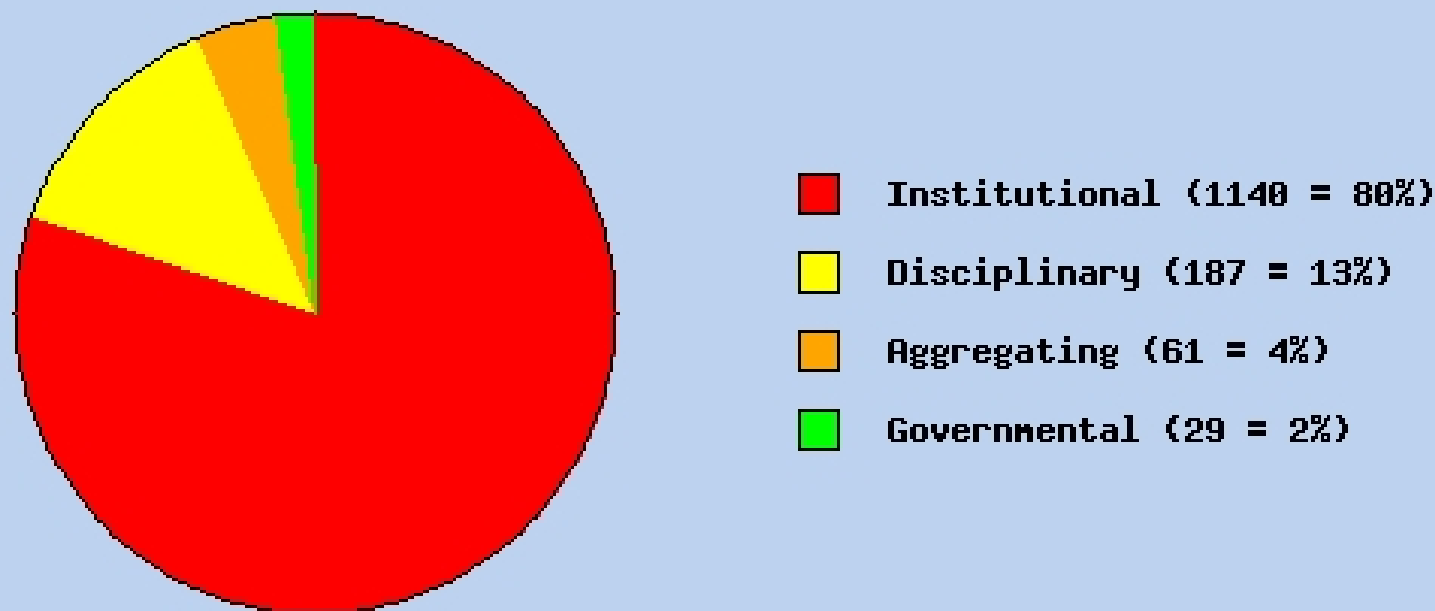
Proportion of Repositories by Continent
Worldwide



- Europe (677 = 48%)
- North America (401 = 28%)
- Asia (166 = 12%)
- Australasia (77 = 5%)
- South America (66 = 5%)
- Africa (24 = 2%)
- Caribbean (4 = 0%)
- Central America (2 = 0%)


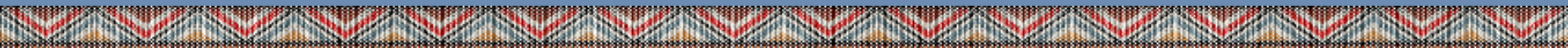
Worldwide repository types

Open Access Repository Types Worldwide





Building further repository expertise

- ▶ Standards – technical, metadata, preservation
 - ▶ Guidelines – establishment, operational
 - ▶ Harvesting protocols – data providers and service providers
 - ▶ Support and advisory functions
 - ▶ Cultural and institutional change management
- 
- 

Human capital development

▶ Leadership skills

- University of Pretoria + Carnegie-sponsored development initiative

▶ Change management

- Collaboration - mentoring
- Understanding new research processes
 - Carnegie-funded Research Commons

▶ Advanced skills development

- Networked information management
- Topic maps – context rich

Digital repository

- ▶ Comprehensive collection of research resources
- ▶ Selected by African research community
- ▶ Relevant to contemporary African scholarship
- ▶ Accessible to all types of users
- ▶ Constructed through skills development
- ▶ Managed by information professionals
- ▶ Acknowledged value of African culture and heritage

A new model incorporating

- ▶ Institutionally driven digitization initiatives
 - Own content
 - Own selection
 - Copyright issues
- ▶ Institutional commitment to capacity building
 - Ensures sustainability and growth
- ▶ New ways of partnership and collaboration
 - Mentoring
 - Support
 - Top-down;
 - Bottom-up
 - Side-to-side
- ▶ Interoperability

OpenDOAR

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

http://www.opendoar.org/

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.

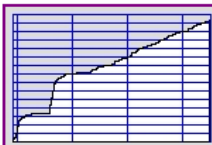
Developments will be of use both to users wishing to find original research papers and for service providers like search engines or alert services which need easy-to-use tools for developing tailored search services to suit specific user communities.

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](#).

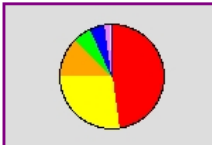
OpenDOAR has also been identified as a key resource for the Open Access community ([K.B. Oliver & R. Swain, 2006](#) - PDF), and was one of the services which contributed to SHERPA being awarded the [SPARC Europe Award for Outstanding Achievements in Scholarly Communications](#).

More information on the project is available on this site through the [About](#) page.

OpenDOAR has over 1400 listings!



Growth of the OpenDOAR Database



Repositories by Continent

JISC OPEN SOCIETY INSTITUTE
CONSORTIUM OF RESEARCH LIBRARIES

curl SPARC Europe


Internet | Protected Mode: On 100%

Registry of Open-access Repositories ROAR

Registry of Open Access Repositories (ROAR) - Windows Internet Explorer
http://roar.eprints.org/index.php?prev=Prev&page=3


Registry of Open Access Repositories (ROAR)

Addis Ababa University Electronic Thesis and Dissertations (1669 records)

 Cumulative Deposits Per Day
10000
8000
6000
4000
2000
0
2004 2005 2006 2007 2008 2009


Running **DSpace**, based in **Ethiopia** and is registered as **e-Theses**
Registered on 2009-02-11
Cumulative deposits: 1669 total [\[table\]](#) [\[graph\]](#)
Daily deposits in last year: 40 days of 1-9, 23 days of 10-99, 0 days of 100+ [\[table\]](#) [\[graph\]](#) (PNG format) [\[interactive graph\]](#) (requires SVG format support)
[OAI Interface](#): [Identify](#) [List](#) [Metadata](#) [Formats](#) [List](#) [Sets](#) [\[harvest status\]](#)

Advanced Knowledge Technologies (AKT) EPrints Archive (342 records)

 Cumulative Deposits Per Day
1000
800
600
400
200
0
2004 2005 2006 2007 2008 2009


Running **EPrints**, based in **United Kingdom** and is registered as **Research Cross-Institutional**
Registered on 2002-01-22
Cumulative deposits: 342 total [\[table\]](#) [\[graph\]](#) [\[Preserv Profile\]](#)
Daily deposits in last year: 0 days of 1-9, 0 days of 10-99, 0 days of 100+ [\[table\]](#) [\[graph\]](#) (PNG format) [\[interactive graph\]](#) (requires SVG format support)
[OAI Interface](#): [Identify](#) [List](#) [Metadata](#) [Formats](#) [List](#) [Sets](#) [\[harvest status\]](#)
100% freely accessible fulltext (* [estimate](#))

Adventist Digital Library Dissertations and Thesis

 Not registered in Celestial:
Either the OAI-PMH interface isn't working or it is awaiting action by a ROAR editor

Running **EPrints**, based in **United States** and is registered as **e-Theses**
Registered on 2009-02-03
No successful harvest yet.
[OAI Interface](#): [Identify](#) [List](#) [Metadata](#) [Formats](#) [List](#) [Sets](#) [\[harvest status\]](#)
100% freely accessible fulltext (* [estimate](#))

African Higher Education Research Online (500 records)

 Cumulative Deposits Per Day
1000
800
600
400
200
0
2004 2005 2006 2007 2008 2009

Running **Other softwares (various)**, based in **South Africa** and is registered as **Other**
Registered on 2007-12-20
Cumulative deposits: 500 total [\[table\]](#) [\[graph\]](#)
Daily deposits in last year: 71 days of 1-9, 0 days of 10-99, 0 days of 100+ [\[table\]](#) [\[graph\]](#) (PNG format) [\[interactive graph\]](#) (requires SVG format support)

Internet | Protected Mode: On 100%


DRIVER

DRIVER | Home - Windows Internet Explorer

http://www.driver-repository.eu/ sherpa

DRIVER | Home

SEARCH THE REPOSITORIES | LEARN ABOUT DRIVER | FIND SUPPORT | REGISTER YOUR REPOSITORY



Digital Repository Infrastructure Vision for European Research

- Home
- About DRIVER
- Driver Confederation
- Partners
- Documentations & Downloads
- Links
- Contact Us

Login Form

Username

Password

☐ Remember me

Login

Lost Password?

Search
 Search

Latest News

- Softver za infrastrukturo DRIVER je že dosegljiv!
- DRIVER infrastructure software release is available now!
- Lancering D-NET: nieke Europese portal voor wetenschappelijk onderzoek

DRIVER: Networking European Scientific Repositories

Considered the largest initiative of its kind in helping to enhance repository development worldwide, DRIVER is a multi-phase effort whose vision and primary objective is to create a cohesive, robust and flexible, pan-European infrastructure for digital repositories, offering sophisticated services and functionalities for researchers, administrators and the general public.

DRIVER has established a network of relevant experts and Open Access repositories. DRIVER-II will consolidate these efforts and transform the initial testbed into a fully functional, state-of-the art service, extending the network to a larger confederation of repositories. DRIVER is integral to the suite of electronic infrastructures that have emerged in the worldwide GÉANT network and is hence funded under the e-Infrastructures call of the European Commission's 7th framework programme. It aims to "... optimise the way the e-Infrastructure is used to store knowledge, add value to primary research data and information making secondary research more effective, provide a valuable asset for industry, and help bridging research and education."

The objectives of DRIVER-II, the second phase of the project, include efforts to expand, enrich, and strengthen the results of DRIVER, in the following areas:

- strategic geographic and community expansion by means of the DRIVER confederation

Internet | Protected Mode: On 100%

Development requirements

- ▶ Advocacy
- ▶ Training for best practices
 - IT for libraries
 - Web delivery and Internet protocols
 - Metadata
 - Standards
 - Management
 - Data, Content and Information
 - Long term preservation
- ▶ Services
- ▶ Tools
- ▶ New partnerships and mentoring initiatives

Contact details

- ▶ Patricia Liebetrau, Project Manager, DISA
- ▶ Email: liebetrau@ukzn.ac.za
- ▶ URL: <http://www.disa.ukzn.ac.za>

Reference:

The future of repositories? Patterns for (Cross-)Repository Architectures.

<http://www.dlib.org/dlib/november08/aschenbrenner/11aschenbrenner.html>

Hubbard, Bill '[Supporting a network of repositories -- experience from SHERPA in the UK](#)', Danish Open Access Day, Copenhagen Business School, Copenhagen, 31st March 2009

This presentation is made available under a [Creative Commons Attribution 2.0 South Africa](#) licence.