

Institutional Repositories – Fair Practice: Uganda

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Higher Learning Institutions in Uganda

- Uganda has 54 universities/degree awarding institutions and several research institutions
 - 9 Public universities
 - 42 Private universities
 - 3 degree awarding

Growth of OA/IRs in Uganda: SPIDER Project

- Consortium of Uganda University Libraries (CUUL), in partnership with the Open Access Programme of the [Electronic Information for Libraries](#) (EIFL) funded by the [Swedish Programme for ICT in Developing Regions](#) (SPIDER) project – phase II

Located at Department of Computer and System Sciences, Stockholm University

Phase I – 2013 – 2014 - one repository

Phase 2 Timeline: [May 2016 to March 2019](#)

Project Description/Purpose:

- **Outcome:** Researchers and students/learners have ICT-based access to research materials.
- **Output 1:** Increased number of OA policies in Uganda.
- **Output 2:** Improved OA repositories in Uganda that help better discover and use the digital content. **(More content and Best IR practices)**

Activities:

- OA policy/advocacy meetings & campaigns;
- Drafted **OA/IR policies – follow on for adoption and implementation;**
- OA repository **audits,**
- Consultancy and mentoring;
- **Capacity building** events for repository managers, administrators, etc. (workshops,)

Participating institutions

- 1. Bishop Stuart University**
- 2. Busitema University**
- 3. Makerere University**
- 4. Makerere University Business School**
- 5. Uganda Christian University**
- 6. Uganda Martyrs University**
- 7. Islamic University in Uganda**
- 8. Kampala International University**
- 9. Muni University**
- 10. Uganda Management Institute**

Aspects of what is working

- **Governance and organisational viability**
- **Functionality/infrastructure (Technical aspects)**
- **Staffing**

EIFL Good practice Checklist

- This document was developed by EIFL and a best practices work team
- The Checklist, with, 9 aspects is intended to be used as a **self-evaluation tool** by IR managers and administrators; guiding them to document the extent to which their institutional repository meets a set of best practice guidelines.
- This allows libraries to identify areas that are lacking, and plan for continuous improvement.

Summary of repository audit

CUUL - SPIDER STATUS OF OA POLICIES AND INSTITUTIONAL REPOSITORIES - SEPTEMBER 2018												
Institution	Repository link	Status of repository	Number of items archived (as of Nov. 20, 2017)	Number of items archived (as of April 11, 2018)	Number of items archived (as of May 11, 2018)	Number of items archived (as of June 11, 2018)	Number of items archived (as of July 23, 2018)	Number of items archived (as of July 30, 2018)	Number of items archived (as of Aug 30, 2018)	Number of items archived (as of Sept 30, 2018)	Permanent URI: Handle Server	Discipline: Engineering /site
Busitema University	http://ir.busitema.ac.ug	Installed Dspace v5.2	0	0	1	5	3	29	38	50	YES	
Bishop Stuart University	http://ir.bsu.ac.ug	Installed Dspace v5.2	111	120	120	120	125	171	188	188	YES	
Makerere University	http://makir.mak.ac.ug	Installed Dspace v4.2	5101	5514	5568	5716	5747	5760	5890	6006	YES	Y
Makerere University Business School	http://mubsir.mubs.ac.ug	Installed Dspace, v5.5	0	6	532	532	532	538	552	902	NO	Y
Uganda Christian University	http://ucudir.ucu.ac.ug	Installed Dspace, v6.2	27	133	157	180	185	249	389	471	YES	Y
Uganda Martyrs University	http://ir.umu.ac.ug	Installed Dspace, v5.6	114	151	158	159	159	212	229	230	YES	Y
CASCADING												
Bugema University		Not yet									No	
Islamic University in Uganda	http://ir.iuiu.ac.ug	Installed Dspace v5.5		393	397	397	407	442	458	479	No	
Kampala International University	http://ir.kiu.ac.ug	Installed, Dspace v.6.2		0	0	0	336	374	479	501	No	

Activate Windows
Go to Settings to activate Windows.

Governance and organisational viability:

- *The IR should demonstrate long-term commitment to working structures, compliance with prevailing standards, policies, and practices*

“An institutional repository is a **set of services** that an institution offers to the members of its community for the **management and dissemination of digital materials** created by the institution and its community members.

It is most essentially an **organisational commitment** to the **stewardship** of these digital materials, including **long-term preservation** where appropriate, as well as **organisation** and **access** or **distribution**.”

Governance cont'd...

- **Open access/IR repository policy:** *reflects a commitment to the long-term management of access to the institutional digital assets; goals and vision of the repository.* All have draft policies – one adoption.
- **Legal aspects:** *Written policies specify the nature of any legal permissions required to preserve digital content over time. A repository's rights must at least limit the repository's liability or legal exposure that may threaten the repository itself.*
 - The policies and procedures of the institutional repository should comply with current interpretations of [Ugandan Copyright Law](#).
 - [Agreements & licenses](#): *deposit agreements must specify and transfer all necessary distribution, preservation rights, and those rights transferred must be documented.*
 - [Intellectual property rights](#): *track and verify rights and restrictions related to the use of the digital objects within the repository.*

Some more of governance.

- **Procedures: Business plan**

For example: Digital item ingestion/submission: The IR should support ingestion of content from a variety of sources, e.g. directly by author(s) or designated representative(s) and mediated library staff on behalf of authors.

- **Repository audits – for evaluation**

- The IR considered a core library service

- **Repository Committee/Task forces – support the strategic direction of IRs**

Functionality/infrastructure (Technical aspects)

- **Repository software and Version: DSpace / OS**
 - *Repository functions on well-supported software and operating systems and other support software*
- **Permanent identifiers:** Handle service registration and configuration. Important for discovery and stable citation link to resources.
- **Backup/restore procedures and policies for disaster recovery (Sustainability)**
- **Harvesting OAI-PMH server**
- **OAI/PMI harvesting of IR metadata** - As more and more discovery services integrate IR content through the Open Archives Initiative for Metadata Harvesting (OAI/PMI), it is critical that the libraries IRs support such harvesting.
- **Listing of the IR in repository directories** – Similarly, the library should ensure that its IR is listed in the authoritative directories of repositories including OpenDOAR, ROAR, etc -since this will better ensure that new services are aware of the IR and harvest its content if appropriate. (BASE Search, Primo Central)?

Tech aspects cont'd...

- **Analytics and basic web traffic insights**
 - Include content in **Google Scholar** – If you use the latest version of Dspace software (or other software) software to host your content, it will be crawled automatically by Google Scholar.
 - Registration with Google Analytics – usage metrics
 - Basic Solr for most – so far. Content Usage Analysis and Matomo (Piwik)
- **Flexible screen user experience for different screen sizes (Dspace - Mirage 2 Interface)** Configure interface to resize with change of device/screen size – user friendly experience
- **Researcher identification:** Allow your researchers to register to deposit in your repository with their ORCID

Staffing

- **Roles and responsibilities:** *designated staff with requisite skills and training:*
 - *Repository Manager*
 - *Repository Administrator*
 - *Cataloguers/Metadata*
 - *Faculty Librarians (If available)*
- **Knowledge competence**
 - Scholarly communication
 - Institutional repositories
 - Open: Access/Science/Data
 - Policy elements
 - Copyright and licencing
 - Metadata management
 - Standards and what they mean/do

Challenges

- Technical and infrastructural gaps.
- Limited IR Staffing, skills and time for IR roles.
- Limited content or submissions and poor research environments.

Next steps

- Streamline our content streams submission systems. Focus on **ETDs** (and possibility Vireo)
- Strengthen our research information systems (working with our research units), perhaps, even encourage institutions to adopt Dspace - CRIS. This should help us know what our researchers are doing and also track their work.
- Intensify **metadata training** for librarians and researchers.
- Work on OA policy adoption and their mandates, to assure business structure and compliance.
- Continue with **OA advocacy** among the researchers.
- Encourage more repository development and OA Journal publishing.
- National repository collaboration – with RENU

Some Repository Links in Uganda

NAME	Repository Link
1. BSU	http://ir.bsu.ac.ug
2. BU	http://ir.busitema.ac.ug
3. IUIU	http://ir.iuiu.ac.ug
4. KIU	http://ir.kiu.ac.ug
5. MAK	http://makir.mak.ac.ug
6. MUBS	http://mubsir.mubs.ac.ug
7. Muni	http://dir.muni.ac.ug
8. UCU	http://ucudir.ucu.ac.ug
9. UMI	http://umispace.umi.ac.ug
10. UMU	http://ir.umu.ac.ug

Good practice log

NAME	Dspace Version	Handle Service Enabled	Disaster recovery plan	Discoverability: Search engine optimisation- Sitemaps, robots	Directory Registration: Google Scholar, ROAR, DOAR	Statistics: Solr/Other	Responsive interface	Harvester Enabled OAI	ORCID
1. BSU	6.2	YES	YES	YES	YES	YES	YES	YES	NO
2. BU	5.6	YES	NO	NO	NO	YES	NO	YES	NO
3. IUIU	5.5	NO	YES	YES	YES, Google	YES	NO	YES	NO
4. KIU	6.2	YES	YES	YES	YES, Google	YES	YES	YES	NO
5. MAK	4.2	YES	YES	YES	YES, ROAR, DOAR, Google	YES, CUA	NO	YES	NO
6. MUBS	5.2	NO	YES	NO	YES, Google	YES	NO	YES	NO
7. Muni	6.2	YES	YES	YES	YES, Google	YES	YES	YES	NO
8. UCU	6.2	YES	YES	YES	YES, ROAR, Google, Yahoo!	YES	YES	YES	YES
9. UMI	6.2	YES	YES	YES	YES, Google	YES	YES	YES	NO
10. UMU	6.2	YES	YES	YES	YES, Google	YES	YES	YES	NO

OA eJournals

Three institutions with OA Journals:

- Makerere Business School
- Uganda Martyrs University (hosted by AJOL)
- University of Technology and Management in Uganda

Thank you for listening!