The role of Institutional Repositories in making lost or hidden cultures accessible, a study across four African University Libraries

Andrew Watson Malekani  
*Sokoine University of Agriculture*, malekani@suanet.ac.tz

George Kavishe  
G.K, gkavishe@sua.ac.tz

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The role of Institutional Repositories in making lost or hidden cultures accessible, a study across four African University Libraries

By
Malekani, A. W and Kavishe G.
Sokoine University of Agriculture, Morogoro Tanzania
E-Mail: malekani@suanet.ac.tz

This study was undertaken to uncover the potential role that Institutional Repositories (IR) can offer to preserve in the long term the special collections (especially cultural heritage materials) so as to reap the advantages that these collections offer in terms of intellectual development in Africa.

The study involved use of scoping review which involves five stages: research question, identifying the relevant study, selecting the study, developing a narrative review (charting data), summarizing (collating) data and an optional consultation step. The study also involved a Focus Group Discussion (FGD) involving participants in the Continuous Professional Development (CPD) programme at the University of Pretoria from various universities in sub-Saharan Africa. The study found that the potential roles of IRs were mainly centered in three levels: at user level, researcher level and the institution level. In the cultural heritage context, the study found that IR offers opportunities to enjoy replicas of artefacts and museum environments from a distance and to avoid the spatial and temporal limitations of an actual visit to a museum. In turn, the increased accessibility of cultural contents would underpin a process of democratization of culture, which openly resonated with the main proposals of the New Museology thinking of the 1970s and 1980s. Based on this study, it is recommended that the rich culture of Africa stored in the name of special collections should be made known to the world and whoever wishes to know more about the continent and its culture.

Keywords: Institutional Repository; Cultural Heritage; Special collections; Africa.

Introduction

The world since its evolution has always made it a point to preserve the cultural heritage and other works of its people. The reason behind this is to allow new generation to see what the older generation did during their time and stay on earth. The act of preserving in order to ensure continuity in the society has always been the practice and order of the day right from the period of antiquity to the renaissance. Since creation, man has been encouraged to share knowledge and not only to preserve it. As witnessed in this world, there are so many ways of preserving and sharing knowledge. One of the oldest ways is what we term as the oral tradition and with this
method so much knowledge has been shared from generation to generation or across generations (Paulin & Suneson, 2012).

The advent of technology has gradually ushered the world into what we now call digital or information era. This has paved the way for several ways of storing, preserving and disseminating knowledge for human consumption to come into existence just like the traditional ways but this time in a technological manner. Institutions like universities exist to train and impart knowledge into students and the whole university community. It is also incumbent on them to ensure that they preserve their scholarly or intellectual works and make them available to the world as a form of knowledge sharing. The idea and agitation for knowledge to be freely accessible brought about Open Access institutional repositories, which are popularly leading the way on this course (Abrizah, Noorhidawati & Kiran, 2017).

Institutional repositories have been variously defined. One of such definitions refer to it as the collective intellectual or scholarly output of an institution stored and preserved in a manner that can be easily accessed by the intellectual world (Yeates, 2003). Institutional repositories came into existence to help universities preserve their own intellectual heritage but there are several schools of thoughts that have varied views and opinions on the importance of institutional repositories. A study conducted by Davis & Connolly (2007) indicated that Cornell University’s Dspace is underpopulated and underused by its faculty and the university community at large.

Nigeria, with a higher number of universities and research institutions compared to any other country in Sub-Saharan Africa, produces a large volume of research outputs that are of paramount value to the scholarly community. Unfortunately, these outputs gather dust in various departmental offices and institutional libraries without being accessed and consulted. Some of the journals are published in local journals that have a minimal circulation due to poor
distributorship, marketing or prestige. Many problems make the work of Africa’s repository managers difficult and frustrating. These include intermittent electricity supplies (Nigeria being a particular offender in this regard), poor Internet connectivity and inadequate broadband capacity, lack of on-line storage capacity as repositories grow in size, a lack of training and specialist IT expertise among librarians, and a lack of funds to finance the digitization of earlier materials. Putting African Repository managers in touch on a regular basis with one another, as well as with other knowledgeable persons in the digital repository world, could be useful so that problems discussed and possible solutions learnt thus far are implemented. Repositories really do hold out the promise of transforming the visibility of African scholars in the research (Molteno, 2016).

**Research Problem**

Africans place very strong values on their culture and so are other nations on various continents around the globe. The emergence of institutional repositories is making lost/hidden cultures more accessible by the world. The process or act of digitizing special collections like rare or irreplaceable materials/documents and archiving them in an institutional repository even suggests that without the past the future is always bleak and so there is the need to preserve the past so that the way of life of the society will always be available to the present generation so that they will not be deceived by what others may say without knowing the facts.

In an attempt to understand the role of institutional repositories in the context of making lost/hidden cultures accessible, this paper therefore seeks to find out and bring to the fore the advantages and disadvantages of this trend.

**Purpose of the Study**

The purpose of this study was to find out the advantages and disadvantages of institutional repositories in making lost or hidden cultures accessible.
Objectives of the study

The following are the objectives of the study:

- To find out the development of institutional repositories in Africa, specifically, Ghana, Nigeria, South Africa and Tanzania
- To find out the advantages and disadvantages of institutional repositories on the development of special collections
- To find out the challenges institutional repositories face in their quest to make intellectual and hidden contents accessible
- To make recommendations based on the outcome of the study

Research Questions

The objectives of the study were derived from the following research questions:

- What is the level of development of institutional repositories in Africa, specifically, Ghana, Nigeria, South Africa and Tanzania?
- What are the advantages and disadvantages of institutional repositories in Africa?
- What are the challenges institutional repositories face?

Scope and limitations of the Study

This study was limited to institutional repositories in specific academic institutions in South Africa, Ghana, Nigeria and Tanzania; the reason being that, the study was given a very short time frame within which to submit its outcome. The study therefore seeks to caution that the outcome from this research should not be generalized because there was no data collection which was subject to rigorous analysis.
Significance of the study

This paper seeks to add to academic knowledge by evaluating the good and bad of institutional repositories making lost/hidden cultures accessible.

Literature Review

Literature review is supposed to help the researcher to be able to summarize, explain, evaluate and describe the available literature. One of the few reasons for conducting literature review is for a researcher to be able to position his/her study into other related studies so as to be able to identify gaps and flaws in those studies. It also helps by justifying the study and improves the understanding of the study (Boote & Beile, 2005). This paper was therefore reviewed under the following subheadings;

- Institutional repositories in Africa specifically Ghana, Tanzania, South Africa and Nigeria
- Advantages and disadvantages of institutional repositories
- Challenges institutional repositories face

Institutional Repositories in Africa

Ghana

Ghana’s University for Development Studies’ Institutional Repository case

The history behind making information openly accessible dates back to several centuries. There were several reasons why people or intellectuals around the globe wanted easy access to information without subjecting themselves to the payment of monies before they can access all kinds of information. In Africa, specifically, Ghana, the first academic institution to establish an institutional repository was the Kwame Nkrumah University of Science and Technology (KNUST) in 2008. As the famous adage goes “Knowledge is power”, therefore it is always in the right direction to not only preserve knowledge but share as well. This resulted in the
establishment of an institutional repository by KNUST among other reasons. The idea was however adopted by other public and private universities in Ghana to also come out with their own repositories.

The establishment of the institutional repository for KNUST for the first time saw them moved to 52nd on the webometrics ranking for the only 100 best universities in Africa. This success story as earlier indicated motivated other universities in the country to follow suit.

Academic institutions like University of Cape Coast, Ghana; University of Education, Winneba, Ghana; Methodist University College, Ghana; and Ghana Institute of Management and Public Administration for the first time benefitted from Consortium of Research and Academic Libraries in Ghana and International Network for Availability of Scientific Publication’s initiative to help these universities start their own repositories (Corletey, 2011).

Taking the case of University for Development Studies, Tamale, Ghana (in which one of the Continuing Professional Development (CPD) Carnegie funded scholarship librarian who shared the experience there for this study comes from) operates a multi-campus system. This means it has more than one campus. The campuses have sprung all over the northern regions of Ghana, namely; Upper West, Upper East and the northern region. The university became the fourth public university in Ghana after Kwame Nkrumah University of Science and Technology, Kumasi, University of Cape Coast and University of Education, Winneba, to have an institutional repository in the year 2014. In order to enhance higher visibility and access to archived documents in the repository, the UDSspace as it is called is indexed by Yahoo, Bing, Google and Yandex. It has also been registered to the OPENDOAR, PubMed and Worldcat. This repository hosts a variety of scholarly materials, including journal articles, books, conference proceedings, unfortunately it has not archived any special collection related to cultural heritage materials since
its creation (Thompson et., 2017).

**Tanzania**

**Experience with Institutional Repository at Sokoine National Agricultural Library (SNAL)**

This Institutional Repository (SUA IR) started recently (2014) out of the need to manage publications from this institution. This repository was built and is maintained by the university library (SNAL) (in which one of the Continuing Professional Development (CPD) Carnegie funded scholarship librarian who shared the experience there for this study comes from), in order to collect, preserve and disseminate scholarly output generated by University research community (staff and students) members. This repository hosts a variety of openly accessible materials including scholarly articles and books, theses and dissertations, conference proceedings and technical reports. It has 9 communities. Thus, the total number of publications collected in the 9 communities so far is 1,509 (http://www.suaire.suanet.ac.tz:8080/xmlui/). The repository is linked to indexing databases such as Google scholar and OPENDOAR.

The major challenges being experienced since it started are mainly lack of commitments by university staff (mainly research fellows and academic) to do self-archiving of their publications although it is stipulated so in the IR policy document of the university. The library has strived to issue guidelines on how self-archiving should be done but only few staff have and continue to implement this policy requirement. Lack of enough publications for depositing in the repository is another major problem, which in fact emanates from the lack of equipment (heavy-duty scanners) to digitize hard copy of the publications for uploading in the repository. On the part of postgraduate students, it has become a mandatory to submit their soft copies of the thesis and dissertations for archiving purposes but again there are problems that some of them bring empty carriers (flash disks, CDs, DVDs) and some do not open completely rendering it difficult to
upload in the repository. In terms of library staff to upload and manage the repository, this is not a big problem although they need regular training to master the skills in this area. Technical problems are also eminent especially in terms of electrical power interruptions and slow internet connectivity.

**South Africa**

**Putting Rhodes University’s Institutional Repository into Perspective**

The story starts in democratic South Africa. At the very beginning of the century, in the year 2000, the University of Pretoria set up the first repository in Africa. It was mainly for theses and dissertations. Six years later, it expanded to include all staff’s newly published output as well as digitizing some historical and archival materials. Other South African universities followed Pretoria’s example and, as of July 2016, there were at least 22 university repositories in the country (Molteno, 2016). In 2005/06 Rhodes University (in which one of the Continuing Professional Development (CPD) Carnegie funded scholarship librarian who shared the experience there for this study comes from) launched its digital institutional repository, originally consisting of theses and dissertations.

Rhodes University is part of a consortium that established in 1998. The SEALS Digital Commons contains the digital collections of the academic institutions in the Eastern Cape, South Africa. This consortium consists of the academic libraries of the Eastern Cape Province, South Africa. It became a formal academic library consortium in 1999, with the vision to create a virtual library for the Eastern Cape. The member libraries are from the Nelson Mandela University, Rhodes University, University of Fort Hare, and Walter Sisulu University (https://www.ru.ac.za/library/about/libraryprofile/specialcollectionsarchives/).

Rhodes University library posits that it is committed to the pursuit of knowledge by connecting
people to resources that contribute to the intellectual development of future responsible citizens. Cory library digital collections is the Rhodes digital commons—an open access institutional repository of the academic and research output from the Rhodes community. The repository, is managed by Rhodes University library. The Cory Library is at Rhodes University, Grahamstown, in the Eastern Cape Province of South Africa. Since the initial deposit of Sir George Cory's collections, there has been a particular focus on the history of the Eastern Cape, and on Grahamstown itself. There is a strong collection of material on Lesotho, and substantial holdings on the wider history of Southern Africa. The Library’s archival holdings include Xhosa history, mission and church history, as well as education, mining, commercial and agricultural history. Collections include:

Manuscripts and archival collection with collections such as family histories and farmer’s diaries, Cape and other governmental publications, books, both rare and modern, periodicals and newspapers, maps, pictorial materials, microforms, video and audio recordings, digital records, institutional collections of churches, local, political and non-governmental organizations, business and professional bodies, service clubs, and educational institutions.

The scope of collection in 2016 was as follows, monographs-220,393; Rhodes digital commons-12,581 making Rhodes digital repository one of the largest and fastest growing in South Africa. Rhodes University library completed the project to digitize and make accessible online all the theses held within the Main & Cory libraries. The oldest Rhodes theses currently online dates back to 1928. The Repository includes academic and research output from the Rhodes University community (RUL Research Report 2015-2016).

International Library of African Music (ILAM), founded in 1954 by Hugh Tracey is the greatest
repository of African music in the world. A research institution devoted to the study of music and oral arts in Africa, it preserves thousands of historical recordings going back to 1929 and supports contemporary fieldwork. It is currently digitizing its collections. Its journal, African Music, is nearly into its fourth decade. ILAM aims to recover, record, analyze, and archive the music of sub-Saharan Africa, with the aim of establishing a theory of music making in Africa and assessing the social, cultural, and artistic values of African music. ILAM is attached to the Music Department at Rhodes University and coordinates its Ethnomusicology Program that offers undergraduate and postgraduate degrees in Ethnomusicology that include training in performance of African music.

NIGERIA

Institutional Repository in Nigeria, the journey so far

Academic and research institutions in many developing countries like Nigeria are still battling to overcome many challenging issues in an attempt to make their research outputs openly accessible by means of institutional expository (Adetunji, 2017). In spite the fact that Nigeria has a quantum of academic and research institutions more than any country in Sub-Saharan, there is need to embrace institutional repository. A report has it that Nigeria with an estimated population of over 150 million has universities, polytechnics, colleges of education, research and allied institutions with the highest number compared to any country in Africa. This has resulted into high volume of research output. These outputs are usually not recognized because they are not made visible due to little or lack of knowledge in Institutional Repository.

In Nigeria, the idea of Institutional Repository is a new phenomenon with the first IR emanating from the University of Jos. The University of Jos library actually commenced digitization in the mid-eighties. The library was then faced with challenges of managing the increasing order slips
for books and journals that had through the years piled up but with the help of the World Bank Loan, computers were acquired in order to enhance the input of order records. While this modest progress was being made in digitization, Carnegie Corporation New York’s attention was drawn and University of Jos library was included in its capacity building funding in the year 2003. Afterwards the library was introduced by Carnegie to the Database of African Theses and Dissertation (DATAD) to be a contributing member. Since 2006, the library had been contributing digital copies of theses and dissertations. They started gradually with abstracts but now the story has changed. Other Universities such as University, Covenantant University (in which one of the Continuing Professional Development (CPD) Carnegie funded scholarship librarian who shared the experience there for this study comes from) had since joined in the building and use of institutional repositories (www.opendoar.org/countrylist.php#Nigeria). Covenant University Institutional Repository (CUIR) became active in 2012 and has since then been managed by the Centre for Learning Resources, i.e. the University Library. Covenant University had her Institutional Repository operated on two platforms, namely Eprints (http://eprints.covenantuniversity.edu.ng) and DSpace (http://dspace.covenantuniversity.edu.ng). Relying on Stradja Processing Management Model, Covenant University selected DSpace and Eprints, which are open source software for the fact that they appear more robust, easy to set up and are amenable to customization. (Nkiko, et al., 2014). On 2017, the Vice Chancellor, instructed that the DSpace Repository be closed so as to aggregate all Covenant University’s intellectual property into a single location to prevent the sharing of university’s’ rating during the web ranking process. One of the policies is the compulsion of Covenant University faculty members to upload theses and dissertations on the Institutional Repository for open access. Theses and dissertations on the digital institutional repositories are classified as unpublished.
items as long as they are not contained in any journal or book. It is also worthy to point out that in Covenant University only abstracts of articles with transferred or assigned rights are uploaded to the institutional repository (Nkiko, et al., 2014). Covenant University till date has 20,988 materials uploaded in the CUIR (http://eprints.covenantuniversity.edu.ng/view/divisions/). Covenant University is yet to engage in the digitization of heritage materials (special collections). Covenant University has consistently maintained the first position during web ranking of Institutional Repositories.

**Design/methodology/approach**

This paper is primarily a literature and scoping review of the current digitization-licensing climate. It uses an embedding examples from ongoing research projects and recent writings on Institutional Repositories (IRs) and digitization to highlight both opportunities and barriers to the creation and use of digital heritage content from galleries, libraries, archives and museums (GLAM) using Arksey and O’Malley (2005) Framework for literature and scoping review.

Scoping review also alternatively called scoping study, scoping project, scoping exercise, scoping report, scoping method, scoping exercise method, as well as literature mapping, mapping of research, evidence mapping, systematic mapping, literature review, and rapid review, aims to map *rapidly* the key concepts underpinning a research area and the main sources and types of evidence available. It can be undertaken as stand-alone projects in their own right, especially where an area is complex or has not been reviewed comprehensively before (Colquhoun *et al.*, 2014; Pham *et al.*, 2014).

**Results and discussions**

**Advantages and disadvantages of IRs**
Advantages

According to Yeates (2003), the benefits of IRs can be grouped into three categories, namely benefits for users, institutions and benefits for individual researchers. For users, the author opines that IRs provide expansion of the range of knowledge that can be shared and opportunities to simplify and extend dissemination.

For institutions, IRs enable Intellectual Property Rights (IPR) to be exploited more effectively, leverage of existing investments in information and content management systems and highlighting of the quality of intellectual capital. They make research output of the institution more readily available, to preserve and organise the institution’s research output, and to enhance the reputation of the institution.

Many of the benefits of IRs identified are at the institutional level, or even at the national level. In Japan, for example, the Ministry of Education, Culture, Sports, Science and Technology has encouraged Japanese university libraries to develop institutional repositories to promote sharing of knowledge throughout Japan and internationally (Cullen and Nagata, 2008). In a survey of academic library directors and senior administrators carried out by Rieh et al. (2006), the researcher identified “capturing the intellectual capital of the institution” as the most important benefit of an institutional repository (Rieh et al., 2007).

Improved long-term preservation of the institution’s digital assets is another benefit to be realised through centralising content in known, standardized formats. Other proposed benefits focus on increased institutional prestige from exposing research carried out by staff and students – a much
more effective way of highlighting an institution’s total academic outputs, which are otherwise spread among many publications. A further benefit arises in increased differentiation between institutions, because of the unique content in individual repositories, and suggests that potential students with an interest in a discipline may be attracted to an institution that makes its research in the field widely available through a repository.

For individual researchers, the primary reasons used to persuade academics of the benefits of placing their output in an institutional repository is exposure – that by having their research and publications openly available on the web, not just in fee-based databases, scholarly journals, or books, their work is likely to be used and cited more. As a result, their reputation will be enhanced over the long-term, due to the recognition they gain from this (Pinfield et al., 2002 cited in Cullen and Chawner, 2010). Other benefits to researchers include stewardship and preservation of their publications in digital form, which frees them from the need to maintain this content on a personal computer or web site (Lynch, 2003 cited in Cullen and Chawner, 2010).

The benefits of institutional repositories can also be categorized, Kim suggests, as extrinsic benefits such as accessibility, increased publicity for the research, trustworthiness of documents, recognition for the individual and the institution, and academic reward, all of which are related to the contribution that IRs make to scholarly communication, and which may motivate researchers to deposit. Intrinsic benefits, by contrast, relate more to the altruistic intention of the depositor to make their findings available to colleagues and stakeholders, as well as the value of a knowledge management system for the management of research outputs (Kim, 2007).
Disadvantages

The drawbacks of IR according to Yeates (2003) is that they affect the balance of institutional powers as some departments proceed faster than others; they rely on unproven methods for long term digital preservation; they may need quick wins to sustain institutional support; and initial costs may be high as contributors perceive high risks and duplicate effort to reduce them. For instance, setting up a repository is a major undertaking for an institution (Jones et al., 2006). Setting up an IR requires a commitment of financial and staff resources for both the establishment and the maintenance of the repository, a well-developed process for establishing its authority and value in the institution, and an overt public relations campaign in the academic community to persuade individual academics to deposit their research outputs (Cullen and Chawner, 2008a cited in Cullen and Chawner, 2010). The lack of community engagement suggested by the apparent difficulty in recruiting content for IRs highlights the fact that current work practices in scholarly communication need to be considered in designing repositories.

In their study to assess the value of IRs to the academic community in New Zealand tertiary institutions, Cullen and Chawder (2010), the academic community interviewed stated the following to be the disadvantages of depositing the articles to the IRs. These are that depositing in an IR adds extra workload for staff, institutional repositories are not as easy to use as journal indexes and Databases, institutional repositories may breach the confidentiality of data. Some research institutional repositories risk reducing the value of the peer review process, institutional repositories will expose more work to plagiarism, when everyone is required to deposit their research in an institutional repository there will be no competitive advantage in doing so.
The advantages in cultural heritage context

In her paper “Opening Access to collections: the making and using of open digitized cultural content”, Terras (2015), points out that many projects produced within the sciences can choose to make their data sets, which they have often gathered and created themselves, available (although licensing constraints sometime apply). She further asserts that, however, those producing research material within the arts, humanities, culture and heritage depend, for the most part, on access to primary historical sources which often belong to and are located in memory institutions such as galleries, libraries, archives and museums (GLAM), or reside in private collections. While digitization is not a prerequisite to gaining access to material (which can be viewed in its original, analogue form), and while digital surrogates (metadata) of cultural heritage objects do not have to be openly shared once created, just as the sciences are calling for publication of source data as part of the open access movement (OAM), opening up access to primary sources in the cultural heritage sector and encouraging them to be published in a way which is as accessible as possible has the potential to change the nature of research outputs in the humanities and social sciences, as well as the nature of research itself in these areas.

The growing voice of the OA community is influencing policy within organizations and making digitized cultural heritage content more accessible. This encourages its publication, reuse and integration into research outputs, which results in a virtuous circle of encouraging use and access of digitized primary historical source content.

If the legal and licensing, or financial, and frameworks which hamper increased access and use of digitized cultural heritage materials are reduced or eliminated altogether,
literature on digitization claims that, once created, digital surrogates of primary historical
documents and artefacts will be able to be enjoyed by an “unlimited audience” (Keene, 1998,
cited in Terras, 2015) which will allow individuals:

“to enjoy replicas of artefacts and museum environments from a distance and to avoid the spatial
and temporal limitations of an actual visit to a museum. In turn, the increased accessibility of
cultural contents would underpin a process of democratization of culture which openly resonated
with the main proposals of the New Museology thinking of the 1970s and 1980s (Sartori, 2015)”.

Other reasons commonly given for undertaking digitization within a cultural heritage
environment include: “immediate access to high-demand and frequently used items; easier
access to individual components within items (e.g. articles within journals); rapid access to
materials held remotely; the ability to reinstate out of print materials; the potential to display
materials that are in inaccessible formats, for instance, large volumes, or maps; “virtual
reunification” – allowing dispersed collections to be brought together; the ability to enhance
digital images in terms of size, sharpness, color contrast, noise reduction, etc.; the potential to
conserve fragile/precious objects while presenting surrogates in more accessible forms; the
potential for integration into teaching materials; enhanced search ability, including full text;
integration of digital media (images, sounds, video, etc.); the ability to satisfy requests for
surrogates (photocopies, photographic prints, slides, etc.); reducing the burden of cost of
delivery; the potential for presenting a critical mass of materials (Deegan and Tanner, 2002)”.

Hidden collections are a potential security threats if classified or confidential information is
mishandled. They are a problematic insurance issue and hard to be replaced if these unknown or
undocumented items are stolen. Moreover, hidden collections can be a hindrance to research and
scholarship when patrons, who may have journeyed to the collection, cannot be sure of what they

**Disadvantages of IR in cultural heritage context**

The digitization of 3D models to reflect surrogates (substitutes) of the cultural heritage resources require expensive state of the art structured light acquisition techniques for geometry and textural (colour) only—without considering view dependent reflectance properties. The acquisition times grow with the size and complexity of the objects if the geometric resolution is not relaxed. A large share of the acquisition time is required by manually repositioning the scanner, making the most 3D digitization prohibitively expensive. Moreover, the process of building virtual surrogates from existing cultural heritage resources often requires an investment of several thousand funds per object. These costs and time are simply prohibitive at the expense of other IR resource acquisitions in the institution (Santos et al., 2014). For example, the author shows that the effort for 3D geometry texture and material acquisition of bust-objects takes approximately 36 hours to digitize it. Other disadvantages include limitation to attraction of funds for an institution due to reduced tourist visits to the cultural heritage sites and compromise on intellectual property issues.

**Challenges of Institutional Repositories**

Challenges are part of life and so need to be embraced when it happens as this will help an individual to always prepare for it and then know how to deal with it. Institutional repositories have really come to help with the spreading and sharing of knowledge across the length and breadth of the world, notwithstanding this, they face several challenges that make it difficult for them to serve their actual purpose for which they were set up. It has been observed that one of the challenges of repositories is cost. It is a fact that there is the existence of software that is open source and proprietary. It is also well understood that majority of institutions go in for the open
source one which is entirely free so that they can customize or scheme it to suit their own specifications. Whether open source or proprietary there is always costs to take care of, this cost mostly come in the form of maintenance, and skilled IT person to check it for you and make sure contents are always available for retrieval. These and other related cost issues at times defeat the purpose for the establishment of the IR by some institutions (Li & Banach, 2011).

The refusal or unwillingness of some of intellectuals found in the academia to share their contents coupled with copyright issues make it difficult for repositories to achieve their aim. Some members in the academia have different perception of the institutional repository and so do not want to have anything to do with it and this makes it hard and defeats the purpose of knowledge sharing. Issues of copyright on the other hand makes it difficult for Institutional repositories to host and share works or contents of such status (Armstrong, 2014).

Another challenge which is mostly associated with developing countries especially Africa is unstable power supply and internet connectivity. These two issues mentioned are one of the major hindrances that results in the unavailability of contents when one visits a particular repository website. All these play a role in making lost or hidden cultures inaccessible at times (Ezeama, 2013).

**Conclusion and Recommendation**

**Conclusion**

The believe that institutional repositories have made lost or hidden cultures accessible is something that needs to be encouraged so that new generations would have the opportunity to learn and know what transpired in the past. This will also help in clearing doubts about one’s culture since the repository housing these special collections will produce evidence to clear the air thereby preventing the chance for any misleading information to be circulated. At the same
time, proper care or attention should be attached to the protection of certain contents bearing in mind patent rights or copyright

In order to ensure continuity and change, special collections containing important information, which would be good for human consumption, should be kept and made accessible. Above all, it would be concluded that no matter the demerits, this trend should be encouraged so that society will get to know more about its past and appreciate any other relevant information that had been hidden from it.

**Recommendations**

The recommendations were made based on the available literature reviewed on this particular paper understudy.

- It is highly recommended that special collections should be made accessible to the society because it is the newer generation that tends to benefit more from it
- It is also recommended that the rich culture of Africa stored in the name of special collections should be made known to the world and whoever wishes to know more about the continent and its culture
- The youth or new generation should be exposed to these materials or documents to help instill some sort of nationalism in them

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