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Access to Print and Electronic Resources in Academic Libraries in Nigeria: Analytical Review of Conceptual Model

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Abstract

This paper discusses academic libraries in the digital age, universal access to electronic resources and emerging issues for academic libraries in Nigeria. It reviews and presents conceptual model of print and electronic resources. The model consists of two access environments: the in-house, local, or independent environment and the universal, global, or integrated access environment. The model is analyzed including explanation of three (A, B & C) alternative units for the in-house environment. The paper concludes with the challenge that Nigerians and indeed other developing countries should embrace the scenario where access to electronic resources should replace the traditional practice of walking to the library to consult the card catalogue and browse the shelves.

Keywords: *Print resources, electronic resources, universal access, academic libraries, Nigeria*

1.0 Introduction

Before the advent of information and communication technology (ICT), academic libraries were the sole custodians of information, which was predominantly in print. ICT brought changes necessitated by new information packaging. Academic libraries are faced with managing hybrid resources (print and electronic) and are challenged to acquire the necessary skills. Furthermore, as noted by Anunobi and Okoye (2008) “electronic information is ending the monopoly of academic libraries as the sole access point to information”.

Nevertheless, academic libraries can maintain their place by serving as an access point to both print and electronic resources.

This paper discusses the nature of academic libraries in the digital age including resources, the concept of universal access, and the role of the academic libraries in providing universal access to print and electronic resources. This paper presents and describes a conceptual model of resource access for academic libraries in Nigeria and other developing economies.

It is hoped that librarians and information professionals especially in the academic environment would benefit a lot by studying and applying the model into their libraries. This would in turn enhance service delivery to both students and university communities in their quest for e-resources.

2.0 Literature Review

E-resources Accessibility

It is one thing to digitize library resources and upload them on the Internet, but it is quite another thing to make them accessible by information seekers and users whether free-based or fee-based. Chimah & Nwokocha (2013) assert that inaccessibility of information has been identified as the bane of effective research in Nigerian universities. Many library users especially research students have often expressed dissatisfaction over the inaccessibility of information resources of the library. The most frequent complaints include: non availability of such electronic information resources as Internet connectivity, online public access catalogue (OPAC) and other online databases. Although the e-resources have numerous advantages, problems in accessing and using web-based or electronic information resources are still noticed, particularly among postgraduate students. Monitoring and tracking the available resources and searching for needed papers and publications are major problems in the web-based information system. According to Chimah & Nwokocha (2013:468):

“With the use and applications of ICT in libraries and information resources centres, the information/library professionals are required to respond to the new environment for new roles and new careers in information acquisition, preservation and transfer. They need to be responsive to the growing information need. New kinds of competencies, skills and experiences are required to respond to the need of the time that extends beyond the traditional library setting. This poses a challenge to the librarians especially those in the academic community.”

2.1 Academic Libraries in the Digital Age

A well established library is essential for any academic institution. As a focal point for teaching, learning, and research, it is expected

to provide standard information resources. Today, academic libraries are struggling to keep their place as the major source of inquiry in the face of emerging digital technology, Digital technology has revolutionized not only the way information is packaged, processed, stored, and disseminated, but also how users seek and access information. Academic libraries no longer restrict themselves to print services such as collection development, cataloguing and classification, circulation and reference services, current awareness, selective dissemination, and other bibliographic services, but have extended their efforts to interdisciplinary concepts and computer software and hardware and telecommunication engineering and technology. As observed by Campbell (2006), “Numerous creative and useful services have evolved within academic libraries in the digital age: providing quality learning spaces, creating metadata, offering virtual reference services, teaching information literacy, choosing resources and managing resource licenses, collecting and digitizing archival materials, and maintaining digital repositories”.

Academic libraries presently are faced with not only the decision on what books and journals to acquire to satisfy faculty and students but also on how to remain relevant in the digital era, mindful of low budgets and resentment on the part of institutional administrators. There is also the issue of library users opting for alternate, more convenient, and “qualitative” resources of information (the Internet). As Lombardi (2000) notes, users will prefer more computer content, more and more computer indices, digitized finding aids, digital repositories of articles, online access to newspapers, etc. libraries also struggle with when, how, who, and where to begin digitization efforts, while keeping in mind that hesitation in the digitization of institutional archives will result in relinquishing the function to another

institutional repository host. The consequence is repositioning of academic libraries resources, operations, services and skills. Resources today occur in hybridized form: print and electronic, and therefore services provided and skills possessed by professionals in these libraries should reflect that trend.

For academic libraries to maintain a prominent position in their institutions, they must have moved from limited or local access to universal access. For academic libraries in Nigeria to achieve this, they require expandability, flexibility and compatibility (Tebbetts 1991). It requires standard hardware, sufficient capacity, networking capacities, flexible software, standards, such as MARC for information storage and retrieval, local expertise, and a plan for the next system.

2.2 Universal Access to Resources

Libraries have always served as access points for information. Service has evolved from the days of closed stacks, through self browsing and card catalogues, punch cards, and OPACS, to the concept of open access and institutional repositories (Cisse 2004). This historic migration has tried to satisfying the changing needs of library users, including ease of access, interaction richness, low interaction, and low cost. Eisenberg (1990), remarks that access is more important than ownership. The underlying issue becomes the provision of information resources in offices, hostels, classrooms, homes, etc., regardless of where the information is found. Recognizing the importance of a new mode of information access, academic libraries took responsibility for automation. Funding bodies such as the Federal Ministry of Education (2000) in Nigeria introduced the Virtual Library Project, which pulls together resources electronically, connecting all the academic libraries in Nigeria, with the hub at the National Universities Commission. The

participating libraries become access points to the universal information resources.

Academic libraries acquire and disseminate electronic portals and databases whether through a consortium or by independent subscription. The Consortium of Nigerian University Libraries (NULIB) has subscribed to EBSCO host, Access to Global Online Research in Agriculture (AGORA), Health Internetwork Access to Research Initiatives (HINARI), Online Access to Research in the Environment (OARE), Database of African Theses and Dissertation (DATAD), and many offline databases including MEDLINE. These are global information resources which could be accessed through academic library gateways.

Crow (2002) describes as institutional repositories as, “digital collections capturing and preserving the intellectual output of a single or multi university community”. An institutional repository is a way of reducing the cost of scholarly publication and increasing visibility and access of scholarly research from faculty and students of academic institutions by hosting them in the institution's, professional societies, or third-party provider's website. The institutional repository is a sort of mirror image of print institutional archives, and in some academic institutions is being maintained by the institution's library. While academic libraries were at the centre of providing access to print archives, the institutional repository has given them the responsibility of providing access and also interoperability functions (standardizing metadata formats and metadata harvesting). Many academic libraries are playing leadership roles in their institutional repository project. Anunobi and Okoye (2008) point out that such projects include:

The Academic Research in the Netherlands Online (ARNO) project initiated in September, 2000, and implemented by the Library staff of the

University of Twente, the University of Amsterdam, and Tilburg University. DSpace which is a collaborative project of the MIT libraries and Hewlett-Packard. Ohio State University's Knowledge Bank. Utrecht University institutional repository.

In Nigerian academic institutions, a leadership role in digitizing and providing universal access is demonstrated by the University of Jos library staff. Academic libraries must provide access to both print and electronic resources to serve users and to increase the visibility of their institutions, and as a measure of prestige (NUC, 2007).

A study on electronic resources provision and accessibility challenges in Nigerian academic libraries by Omolola & Adewale (2012) they described issues and challenges facing academic libraries in accessing electronic journals and internet resources in Nigeria. Some of the challenges identified

include: problem of access control, personnel and workload, overlapping of coverage of same titles by providers, high cost of e-resources subscription, complexity of virtual library and funding. Their recommendations were made which include the training and retraining of professional and the supporting staff in web technology skill and acquisition of special software like SFX to link e-journals.

3.0 Conceptual Model of print and electronic resource access for academic libraries

The foregoing depicts a challenging situation for academic librarians who are expected to create universal access to both traditional and electronic resources. A survey of some federal university libraries in southern Nigeria suggests a dilemma. Hence, a model was developed as shown in Fig.1 to assist these libraries. The model consists of two access environments: the in-house, local, or independent environment, and the universal, global, or integrated access environment.

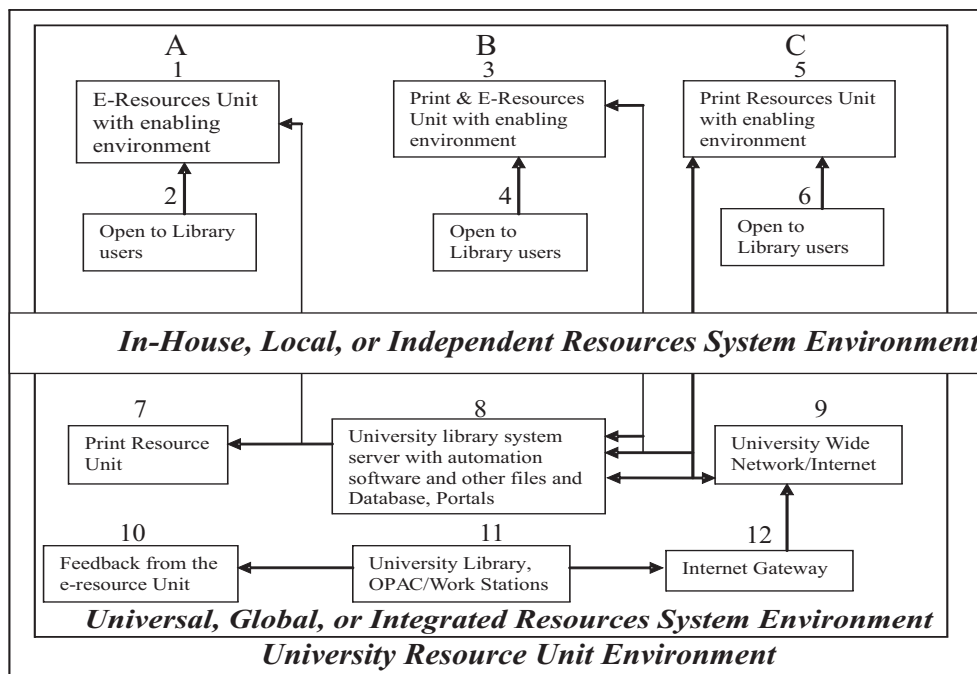


Fig.1: Print/E-Resources Access Model for Academic Library
Source: Anunobi & Okoye (2008)

The model consists of two access environments: the in-house, local, or independent environment, and the universal, global, or integrated access environment.

4.0 Discussion

4.1 Three Alternatives for the In-house Environment

Figure 1 illustrates three alternatives. The first (A) is an e-resources Unit with the enabling environment (software, hardware, and trained staff), which is open to academic library users (2); A combined Print and E-resources Unit (B) with enabling environment (3) also open to academic library users (4); Print resources Unit (C) with enabling environment (5), open to academic library users (6).

The three alternatives are practiced in Nigerian academic libraries today. Inasmuch as they are amenable to the in-house access expected of traditional library services, they fall short of the universal access that is required of academic libraries of international standing. This environment is the hub of an electronic consortium. It works in a feedback mechanism with the e-resources, print and e-resources, or print resources, unit all of which revolve around the library server (7). It provides resources for the independent access environment and also receives resources from it.

The server (7) with high capacity hardware, software, and telecommunication components, gets feedback from the e-resources unit (8), print and e-resources unit (9), or the print resources units (10). Each of the units can access the server, which can also be accessed universally through the library OPAC (11), available on the Internet (12). The integrated access environment allows academic libraries operating any of the options in the independent environment to be part of universal access with or without the involvement of their parent institutions.

Conclusion

The emergence of information and communication technology has repositioned the frontiers of academic library resources, operations, and services as well as expectations user groups. The practice of walking to the library to consult the card catalogue and browse the shelves is moribund in developed countries, and this trend is quickly approaching developing countries as well. Academic libraries must embrace this scenario. The print and electronic resources access model can serve as a stepping stone. When such a step is taken, academic libraries must remember expandability, flexibility, and compatibility.

References

- Anunobi, C.V. & Okoye, I.B.(2008) The Role of Academic Libraries in Universal Access to Print and Electronic Resources in the Developing Countries. *Library Philosophy and Practice* 2008 (May) Online Journal. Retrieved on 15/3/2010 from:
<http://www.webpages.uidaho.edu/~mbolin/anunobi-okoye.htm>
- Campbell, J.D.(2006) Changing a Cultural Icon: The Academic Library as a Virtual Destination. *Educause Review* 41(1),16-31
- Chimah, J.N. & Nwokocha, U. (2013) Empirical Study of Motivation, Challenges and Strategies in the Use of Electronic Information Resources by Postgraduate Library Users in South East Nigerian federal universities. *International Journal of Library and Information Science*. 5 (11),468-473
- Cisse, C. (2004) Access to electronic information and information research. *SCAULWA Newsletter* 5(1), 14-17.

Crow, R. (2002) The Case for Institutional Repositories: A SPARC Position Paper: Washington: Scholarly Publishing & Academic Resources Coalition. Retrieved from: www.arl.org/sparc.

Eisenber, M.B. (1990) Trends and Issues in Library and Information Science. Syracuse, NY: ERIC Clearinghouse on Information Resources.

Federal Ministry of Education (2000) *National Virtual Digital Library Project*. Abuja, Nigeria. National Universities Commission.

Lombardi, J.V. (2000) Academic Libraries in a Digital Age. *D-Lib Magazine* 6 (10). Accessed on 26/5/2014 from: www.dlib.org.

National Universities Commission (2007). Webometric Ranking of World Universities. *Monday Bulletin* (20), 1-7.

Omolola, I.A. & Adewale, O.A (2012) Electronic Resources Provision and Internet Accessibility Challenges in Nigerian Academic Libraries. *Global Journal of Library and Information Sciences* Vol. 1(1) 001-007, February 2012. Retrieved from: [http://www.globalresearchjournals.org/journal/gjlis/archive/february-2012-vol-1\(1\)](http://www.globalresearchjournals.org/journal/gjlis/archive/february-2012-vol-1(1))

Tebbetts, D.R. (1991). Expandability, Flexibility, Compatibility: Key Management Considerations in Academic Library Automation. Accessed from: web.simmons.edu/~chen/nitNIT'91/233-teb.htm