



ELECTRONIC RECORDS MANAGEMENT IN INSTITUTIONS OF HIGHER LEARNING IN LIBYA: ADOPTION OF DIRKS MODEL

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ABSTRACT

Institutions of Higher Learning (IHL) have now produced and created most of their documents and records electronically. These records need to be managed efficiently and effectively according to the widely accepted standards. Well-managed records could give untold benefits to organization, hence, help organizations remain competitive. The management of electronic records ought to be guided by a policy, which serve as a roadmap in implementing the initiative. A study is conducted in order to determine whether Institutions of Higher Learning in Libya have guideline to manage electronic records. It is also to identify whether there are problems in managing electronic records, and to identify what problems are encountered. This study adopts survey as its method employing a questionnaire as the technique to collect data.

Keywords: *Electronic Records, Records Management, Libyan Institutions Of Higher Learning, Information Policy.*

1. INTRODUCTION

Record is an important asset of every organisation and should always be handled with care regardless of their formats. The importance of maintaining records efficiently is to ensure that they support the organisation in for better decision making and can be used to enhance accountability and transparency [1].

Records Management is not a new concept but instead have evolved from the ancient world to modern times. The prologue of computers in the actual mid-twentieth century impacted the factor of documentation in sustaining supervision and business operations while companies have been beguiled by an amazing benefits of digital skills, particularly in the organization storage and recovery of data together with reputable security features [2]. Apart from that the development in the field of e-government and other e-business systems across the globe has led to the development of electronic format of management in every area of business. The contribution of information

communication technology (ICT) has been remarkable behind the development of records management [3].

The emergence of records management in Libya is largely attributed to the development of ICT within the country recently and is largely used by the service delivery organisations and has resulted in the use of electronic records for various public services being offered by the public sector organisations. The public sector organisations should ensure that they manage their records properly and effectively for legal purposes [4].

2. PROBLEM STATEMENT

The management of electronic records is not easy for many organisations across the globe. There are a large number of attributes which are associated with the management of electronic records such as the process of indexing, maintaining and preserving and disposal of records related to the public sector. But no matter how difficult it is, organisations need to maintain these records effectively as records have

vital information related to various functions of the government and also acts for the welfare and interests of the citizens [5].

Apart from the government sector even the academic institutions face the challenges related to record management as these public institutions have to manage numerous records in paper format [4]. Many universities in Libya have the basic ICT infrastructure required but still the use of paper format is highly preferred. Regardless of this, the development in electronic records management in the public sector in Libya has been facing several challenges. The main reason behind this is the lack of efficient infrastructure to support the proper management and also the lack of technical support related to ICT among the institutions [6]. Currently it looks as though the institutions are practicing electronic records management without proper policies and frameworks.

3. RESEARCH OBJECTIVE

- i. To propose a model for electronic records management in institutions of higher learning in Libya.
- ii. To identify the various factors which influence the effective records management practices in higher education institutions in Libya.

4. ELECTRONIC RECORDS MANAGEMENT

Records are classified into both paper and electronic but due to the development of ICT the role of electronic records has become more prominent. This has resulted in the creation and use of electronic records in the public sector. The increased usage of ICTs to conduct business and transmit information contributes to a need to manage the resultant records. Electronic records need to be well-managed as part of the transition to the electronic environment [4].

Records management deals with the recognition, storage, access and exploitation of records that are necessary for an organization in order to blossom [7]. Records management should comprise of policies, processes, guidance, instruments and methods, means and training instructed to design and hold on to efficient and trusted records systems [8]. The goal of an effective records management is to distinguish and keep records, define characteristics, policies, methods, judgements and necessary trades of tasks and research [9].

Having a record management system ensures that the records are present, which can be accessed at any given point of time, which can be interpreted and can be maintained for a particular period of time. Later these records can be disposed off once its role is completed with the help of record disposal schedules and only retain the records which are required for a long period of time in order to save storage space and improve the record retrieval process [10].

According to ISO 15489:2001 [11] “records management involves setting policies, guidelines and benchmarks, assigning responsibilities and authorities, establishing and promulgating procedures and guidelines and giving a series of benefits attached to the institution” [12].

Electronic records management (ERM) is a set of computer programme which helps in keeping track and storage of electronic records [12]. With the help of an ERM, management of record is easier where there are controls to manage the electronic records which have a life cycle from creation to destruction. The records life cycle is a crucial process of ERM process [13].

ERM has numerous goals. First, it integrates e-records management ideas and routines together with thorough information management policies, functions and is designed in a string so that the reliability of electronic records and information to handle interoperability, well-timed and successful decision-making and improved services to customers. Apart from that, ERM also provides various tools for the use of agencies to access the electronic records for so long as essential and transfer the records to the archives which may be required for the future [14]. ERM needs to be equipped with assorted range of statutory regulations, always be accommodating enough to adjust to completely new rules and regulations, take care of the continuing huge growth in electronic records and be accepted by anyone that has to actually use it.

4.1 Electronic Records Management Policy

In accordance with ISO 15489:2001 [11]; “institutions should document and define a policy for records management. The aim of the policy should be the creation, formation and management of reliable, authentic and usable records capable of supporting business purposes and activities for as long as they are needed. Institutions should make

certain that the policy is communicated and fully implemented at all levels in the institution. The policy should be implemented and endorsed at the highest decision-making level and transmitted through the institution. Responsibility for compliance should be appointed". A good electronic records management policy is detailed, comprehensive and up-to-date. It defines responsibilities for records management and can easily be understood [15]. In order to achieve a successful ERM programme, an organization needs to establish a sustainable records management infrastructure which includes developing policies for the management of records and information in all forms, including electronic and paper [19].

4.2 Electronic Records Management Policy In Middle Eastern Countries

Due to the advent in technology the quest of development between developing and developed nations has decreased sustainably and ICT is largely responsible behind this [16]. The Middle Eastern countries have a very similar nature with regard to cultural and social aspects and in common they have a common issue related with the implementation of the electronic formats within their systems [17]. The development in ICT has led to the increased use of electronic equipments such as computers in the Arabic Nations and the citizens are keen to get access to the Electronic format rather than the Paper format [18]. But the main challenge with the nations in the Middle East is the lack of policies with regard to Record management practices is acting as a negative force. Therefore, Libyan institutions of higher learning need to address these problems in order to manage their electronic records effectively.

4.3 Model Of Electronic Records Management

A model can be described as a phenomenon which is abstracted from the details of realism [20]. Developing a model has a great scope for various purposes and the main objective of this study is to suggest a model for the higher learning institutions in Tripoli, Libya. The following sections describe about various models related to electronic records management which have been developed by the national archives and other record management institutions.

As mentioned earlier, the objective of this study is to develop a policy model for the IHL in Libya related to the management of electronic records. By deploying such a model will benefit the IHL in Libya to effectively manage their records and also follow policies and framework so that they can be accountable and always be seen as transparent.

There are several models which can be used by the IHL in Libya. Some of the models well known models are:

a. The Records Continuum MODEL

According to Australian Standard 4390, a record continuum is "a consistent and rational system of management procedures from the time of the creation of records throughout the maintenance and use of records as archives." As noted by one scholar, "profitable management of electronic records could only be achieved if electronic records are handled and managed as a continuous process" [21]. The records continuum as a model concept was created and formulated in the 1990s by Upward (1996) based on four assumptions.

Followed by the records continuum model is the International Council on Archive (ICA) Model which was developed in the year 2005 by the ICA committee for electronic records and was designed to help archival institutions reposition themselves to address the management of archival electronic records. This model also addresses several records management issues such as records and archives in the electronic environment. In particular, it explores records in a database, strategies for managing and preserving of electronic archives, policies and legal implications for electronic archives [22]. Followed by this model is the DIRKS model which has been considered for the IHL in Libya.

The DIRKS Model which was introduced by the National Archives of Australia along with the state records Authority of New South Wales can be used by IHL in Libya as this model could be widely used to review the existing record keeping system or can also be used for the development of new systems and this model is largely used for the improvement of the existing record management system [15;23]. Figure 1 illustrates the DIRKS Model.

According to the National Archives of Australia [15] DIRKS is a methodology for the managed strategic improvement of recordkeeping systems across an organization. This model was mainly developed for record keeping in the public sector and has been tailored based on the requirements and has produced efficient results and thus considering in mind the advantages of this model it is also suggested for the Libyan IHL.

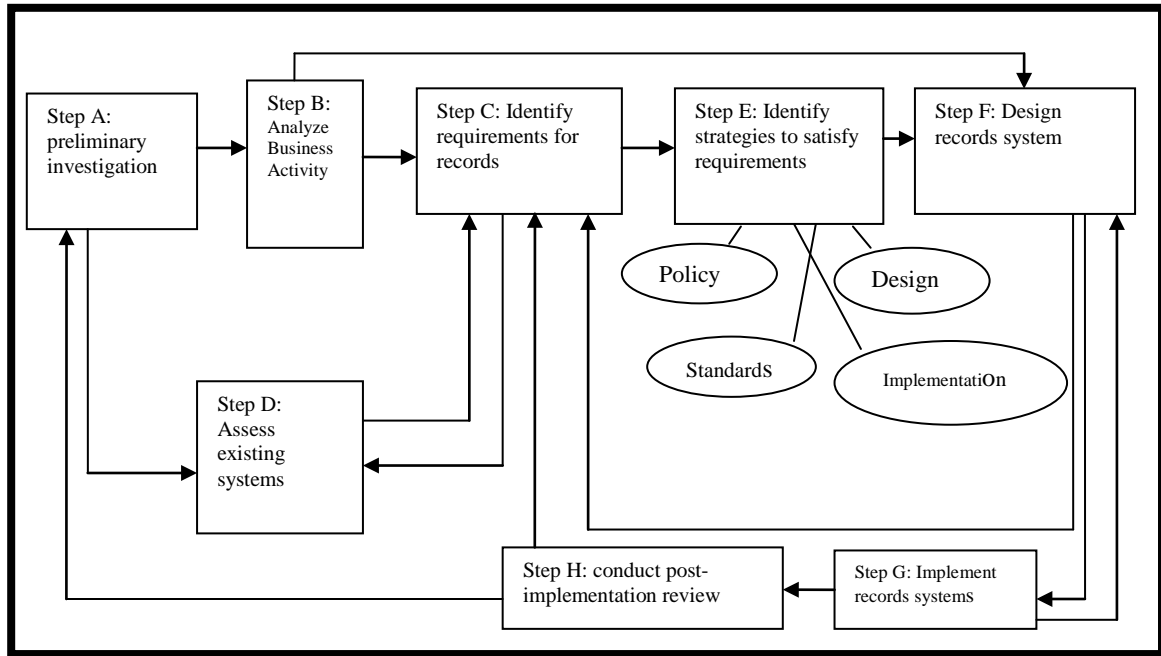


Figure 1: Record Keeping Systems (DIRKS) Model
Source: White-Dollmann, 2004

5. METHOD

This study uses a quantitative approach to gather the information required for the study. For the purpose of gathering data, this study used a survey method employing by using questionnaires. The respondents for this study are the staff members of the IHL in Tripoli where a total of 300 questionnaires were distributed and out of these 270 questionnaires were received back indicating a response rate of 90%.

6. DATA ANALYSIS AND FINDINGS

Based on the demographic findings it was revealed that most of the participants are male in comparison and are in the age group between 25 and 40 with most of the respondents possessing Diploma. Most of the respondents are qualified with some IT experience which is a positive sign for the making use of electronic records management system effectively.

The next section of the research questionnaire was related to the challenges which connected to records management in IHL in Tripoli, Libya.

GENDER	%	IT EXPERIENCE	%	AGE		QUALIFICATIONS	
				%		%	
M	59	YES	78	Under 25	8	High-School	15
F	41	NO	22	25-40	61	Diploma	
				41-50	27	Bachelor	46
				51-60	4	Master	25
				Over 60	-	Doctorate	14
Job Type							
Management			36.4				
Admin			39.7				
Financial			23.9				

Table 1: Demographics Profile

Figure 2 illustrates the findings about the importance of technology in managing records electronically among the staff which are indicated as below:

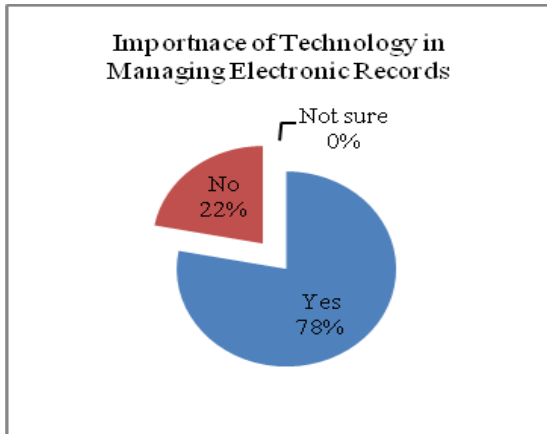


Figure 2: Importance Of Technology In Managing Records Electronically

The findings suggest that 78% of the respondents have agreed that it is highly important to manage records electronically through integrating advanced technology in the existing system because the modern environment demands speed and accuracy in utilising university data for making fast decisions and this can be attained through electronically recording university's data. However, 22 % of the respondents did not agree with the importance of technology in managing records electronically.

Followed by the importance of technology the next question was related to the current environment among the education institutions in Tripoli and the results have been portrayed in the table below.

- a. Do you consider the lack of infrastructure as a Problem in managing electronic records?

Table 2: Lack Of Infrastructure

Question	Variables	%
Do you consider the lack of infrastructure as a problem in managing ER ?	YES	90
	NO	10

According to the results portrayed in table 2 it is clearly that the lack of good IT infrastructure is largely responsible behind the acceptance of electronic records management system (ERMS) which is obvious. Followed by the discussion on

infrastructure the respondents were asked about the importance of training individuals can enhance the process of deploying ERMS.

- b. Do you believe that lack of training to individuals is a major concern in deploying ERMS?

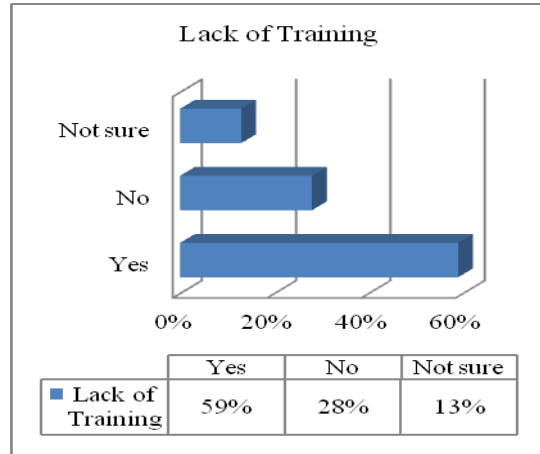


Figure 3: Lack Of Training In IHL For Records Management

The above figure clearly depicts that the staff also believes that the lack of training among the staff related in record management is a major challenges which can be largely attributed the available resources within the country. Whereas 28% of the records respondents believed that there is no need for any specialized knowledge of the records management officers to perform electronic records of data. However, 13% of the respondents did not either agreed or disagreed about the need for specialized knowledge in managing records.

The findings suggest that the common problems such as lack of appropriate policies and programs for recording data electronically (Figure4), lack of IT infrastructure etc are quite common in case of Tripoli, as it is indicated by 57% of the respondents. However, the respondents that are against such proposition to have amounted to 29% as they have mentioned that the problems also persist in case of the institutions, in which they perform the task of electronically recording the data, but the problem is not highly severe. It is only in certain cases that some of the records are manipulated or not recorded. Apart from this, there is not a major issue in electronically recording data on the institutions in Tripoli.

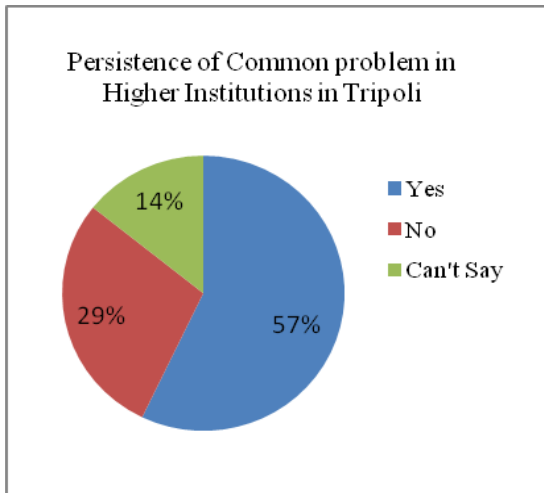


Figure 4: Persistence Of Common Problems In Higher Institutions In Tripoli

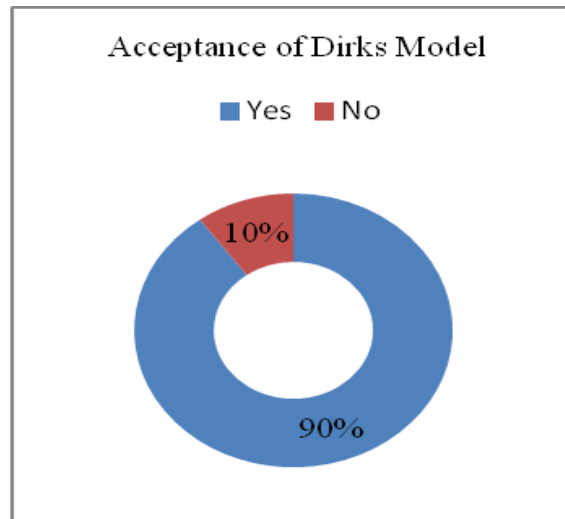


Figure 5: Acceptance Of DIRKS Model

Based on the findings of the study it was evident that the respondents had their own views with respect to the policies and procedures in the higher education institutions in Libya especially in relation to the ICT department and the record managers. Based on the findings it was also found that the main sources based on which the institutions currently used to frame their policies were based on the US National Archives, Australian National Archives and UK National Archives.

Finally, the respondents were asked about any specific issues that they encounter while making the recording of data electronically and the response of the majority of the respondents suggested that the major problem faced by them in recording data electronically is the classification problem. Since, there are various departments within the institution and at the same time, each department offers various kinds of programs, it leads to confusion in appropriately classifying the records of different students enrolled within a particular course. In addition to this, another major problem as specified by the respondents as interviewed was that most of the institutions in Tripoli were new and they have relatively lower experience. This also poses difficulties in successfully operating over the newer system, as the development of appropriate programs and policies is also lacking to perform the task of electronic recording of data.

c. Do you believe that the DIRKS Model would be suitable for IHL in Libya

Based on the results derived in figure five it is clear that most of the respondents have agreed with the DIRKS Model as the results indicate that 90 % of the respondents agreed with the DIRKS model and just 10% apposing it which clearly depicts that the suggested model is welcomed well among the IHL in Libya for electronic record management practices.

7. CONCLUSION

To conclude the major challenges as encountered by them are inappropriate infrastructure to perform the electronic recording of data, lack of appropriate training programs and knowledge by record keepers, increasing numbers of courses leading to increasing pressure among the record keepers, inappropriate programs and policies etc. Based on the findings of the study it was evident that most of the higher education institutions in Libya lack effective records management policies and some institutions have policies but are not framed in the right manner which can act as a guide to implement better record management practices within the nation.

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