Institutional Repositories in India: An overview

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Abstract

The paper discusses the concept of institutional repository (IR) its need, importance, benefits, critical issues, major problems in establishment & maintenance of IR, role of librarians, intellectual society, academic institutions and the government. It also gives an overview of Intellectual Repository (IR) initiatives taken in the institutions of higher learning in Indian scenario.

KEYWORDS: Institutional Repository, Open Source software, Digital Library.

INTRODUCTION

It is a bare fact that the digital environment in all areas is a major determinant of development. Similarly, it is also true with Library & Information Science principles, practices and applications. The digital environment provides a conducive environment for facilitating fast and visible progress in the services, products and delivery mechanism. The gap existing between economy and the society is bridged with the help of the digital environment in short span of time. One of the major components of the digital environment is Institutional Repository (IR) which has been in discussion and debated at professional platforms by the librarians, information scientists, academicians and administrators to drive maximum tangible benefits for achieving excellence in their respective areas. The effect of digital environment is more visible in Library and Information Centers globally as the libraries currently are not treated as the storehouse of books but considered as a gateway of knowledge resources, and the centre of creation and recreation of academic activities. It is further added that the knowledge has been recorded in various forms starting from clay tablets to papyrus, scrolls, paintings, rock scripting and modern chip technology. The ancient scholars who produce the body of knowledge kept it secret from others for centuries. The Vedas in India, which are considered as the storehouse of knowledge, were not accessible to almost seventy five percent of the population in the ancient time. Even today, the nuclear energy information is not accessible to all the people. Likewise books and other knowledge become an individual’s possession and are denied to the rest of the people.

Public libraries have emerged and developed with the sole concept of democratizing the knowledge. The developed countries have control over mass media and have monopolized the means and the medium of knowledge dissemination. The big publishing houses are controlling the research and its publications all over world. The developing countries due to the financial crunch are not able to sustain their knowledge centers. Most
people would like to have things free of cost. It is human nature. The habit or desire to have things free has developed into a full-scale subject of concern and the solutions are being searched to find out the human desire to access knowledge free of cost. Institutional Repository is an answer to the thrust of knowledge especially for those who have been deprived of it due to a number of reasons. The process of empowering the faculty and researchers through knowledge sharing in form of IR in recent time has taken a big leap.

CONCEPT OF INSTITUTIONAL REPOSITORY (IR)

An IR is a system in which a common consensus is developed among common interest oriented persons to share their contributions that are in their possession in form of articles, research papers etc. It is considered the wealth of everybody among such group. The contributor loses her/his claim over the knowledge once he/she has contributed the article thereby making it available to those who are in need of the related knowledge. The recipients are benefited by the quality literature of eminent writers by paying nothing and violating no rule of any land. In this way an Institutional Repository is a continuous amalgamation of various activities including contributing articles, communicating to the repository and participating in building the IR.

Lynch Clifford (2003) expresses his views on Institutional Repository, “a university-based institutional repository is a set of services that a university 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 organizational commitment to the stewardship of these digital materials, including long-term preservation access or distribution.” The crucial word Lynch uses here is “community”. The term institutional repository implies a community based service although repository developers interpret this in different ways.

OBJECTIVES OF THE STUDY:

1. To find out the IR’s in India.
2. To find out which software used for building an IR’s.
3. To find out major problems for IR’s in India.
4. To find out Problems after Taking Initiatives of IR’s in India etc.

RESEARCH METHODOLOGY

Survey research is widely used in both the natural science and social sciences, from physics and biology to sociology and journalism. It is also used as a way to research different aspects of education. For the present study Survey research method is used.

NEEDS OF INSTITUTIONAL REPOSITORY

Since India is coming out from the shadows of backwardness and the agony of LDC i.e Less Developed Country, it is needed that the support for her nourishment must come
from all corners of the intellectual society. The shrinking budgetary support, increasing cost of reading material and the mind set and attitudinal patterns of the managers in institution of higher learning clearly indicate that some alternatives to meet these challenges have to be found out. Institutional Repository should be renamed as “Intellectual Repository” as it is more appropriate and comprehensive term. It is through this system that quality of intellectual output can be measured since till now there is no quality measurement method for the publishers and contributors. Therefore, there is a great need of such Institutional repositories in institutions of higher learning so that a network of intellectual repository access can be explored.

BENEFITS OF INSTITUTIONAL REPOSITORY:

D. Prosser (2003) highlights the benefits of Institutional repository as under:

1. The institutional repository model provides a means for institutions to create archives and make available their wealth of knowledge. It allows individuals (scientists and researchers) to self-archive their own material.

2. For the individuals the institutional repository acts as a central archive for their work, representing a CV that provides a complete list of their research over the years. Because it is open access, it increases the dissemination and impact of their work.

3. For institutions it acts to preserve their intellectual wealth. It increases their visibility and prestige, and can act as an advertisement for funding sources and industrial sponsors.

4. For society it provides access to the world’s research and ensures the long term preservation of research.

IR Initiatives in Indian Scenario

India is not lacking behind in building Institutional repositories because many premiers’ institutions like IITs, IIMs, IISc and Universities have already taken the initiative of IR. The various government and professional bodies are also involved to help these institutions and universities for building intellectual repositories. Recently, the Government of India has setup the Knowledge Commission (KC) to prepare a clear cut road map for the institutions of higher learning in India for taking the initiative like upgradation of libraries and building Institutional Repository. Similarly, The University Grant Commission, (UGC) has already setup a separate agency namely Information Library Network (INFLIBNET) with the objective of modernization of libraries and setting up knowledge centers for accessing and sharing the vast knowledge of research. The INFLIBNET is providing the specialized training and networking of libraries among its member institutions and universities for selecting, managing, preserving and disseminating scholarly materials. Some professional associations and societies like Developing Library Network (DELNET) Society for Advancement of Library & Information Science (SALIS) and Indian Library Association (ILA) are also involved in modernization of libraries, training and setting up the IRs.
The following table shows the growth of IR in India at a glance:

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Table 1 Growth of IR in India

Major Problems of Institutional Repositories in India

Whenever an Institutional Repository initiative is undertaken, it is first planned keeping in view the objectives of the respective institution as well as initiative. Then a prototype is developed, tested and implemented. After achieving satisfactory results, the Institutional repository is developed and implemented at a higher scale and again tested. Some institutional repositories that have been visited to gather information are not presently accessible through Internet due to various reasons.

1 Selected Problems and Solutions of IR initiative:

As mentioned earlier the mindset and attitude of the managers and the managed is steeped in the traditional thought. It is very difficult to satisfy the manager why IR is necessary. Some areas of mindset and the solutions for overcoming them are as follows:

1.1 Mindset of Authority

The Institutional repository proposal generally comes through the library manager. The higher authority of the institutions is hardly convinced while discussing the matter in absence of librarian that the librarian can do this extra ordinary intellectual work. It is because of fact that the proper recognition of the library profession has not yet taken in the society but the new crop of the librarians is highly intelligent, technically sound, technologically well equipped and with open mind and committed for library profession are now ready to take the leap. Therefore, the responsibility of convincing the higher authority is of this generation.
1.2 Lack of Presentation Skills

It has been noticed that the presentation techniques of librarians have been very poor from the decade. Therefore, they are not able to convince the authority for taking up the initiative like IR in their respective organizations. This has led to the belief that librarians are not at all fit for taking new initiative. This perception need to be changed by the new generation librarians. Through audio visual and with other presentation aids the higher authority should be shown the project in the best possible way.

1.3 Financial Crunch:

The mind set is very clear that the authorities do not allocate additional fund for expansion and innovation until and unless the project is important for organization and society. New generation librarian should present the case in such a way that the investment can be shown a benefit to the institutions/organization in the times to come. The alternative method of budget and the possible income from the various sources can also be put forward for the consideration.

1.4 Introspection by the Librarians

The problem of mind and attitudinal behavior is related to not only to the authority but also equally associated with librarians. Librarians should have to change orthodox thinking and develop themselves into a role model. Sometimes the authorities have their own limitation and or not in position to approval the proposal due to various factors. The librarians should not think that the authorities are not accepting their proposal.

2 Problems after Taking Initiatives

2.1 Acceptability

One of major problem for Library and information professionals is to get acceptance/approval of the authority of the institute/university for setting up the institutional repository. Secondly, it is really difficult to get research output of faculty members and research scholars for putting into the intellectual repository of the university or institute. Some times library professionals are not successful in convincing the intellectual community of the importance of Institutional repository and its role.

2.2 Visibility:

It has been noticed that many organizations have established the Institutional repository but they are not interested to share the same with society like defense (DRDO) and other research institutions in India.

2.3 Sustainability

The establishment of institutional repository is a lengthy and difficulty task because lot of efforts and investment is involved. Therefore, it is necessary to maintain and sustain the
IR for long term preservation. The maintenance part includes the review of the content, revising and updation of the hardware and sustaining the accessibility etc. It is observed during the web survey that most of institutions/universities are not updating, reviewing and maintaining their IR timely.

2.4 Accessibility

- The uniform resource locator (URL) changes from time to time but not updating their link on web pages link.
- Due to problem of power and unseen factors, the web server is not operational round the clock.
- There is total gap between the service discontinuation and webpage update.
- Some time, the server does not work due to under maintenance.

The library professionals responsible for maintaining intellectual repositories should regularly review their accessibility in order to minimize these problems. They can invite feedbacks from users to provide more user-friendly access to resource materials.

Lesson Learnt:

Based on review of literature, analytical web survey, discussions with experts, and experiment at MPKV University, some lessons have been learnt which may found useful for other similar institutions of higher learning.

1. Organizational Commitment

There should be a strong commitment from the organization with well preparation and sufficient infrastructure. It has come know that mostly existing IRs have been initiated by Libraries and Information Centres (LIC) but are not supported by academia in submitting their intellectual asset into repository. In such a situation, it is necessary for the organizations to convince their faculty members and research scholars to submit their intellectual asset into repository. Contributors should be suitability rewarded.

2. Well Defined Policy

Institutions should design a well defined policy of IR where some important issues and decisions should be taken. The issues include selection of contents, review of content and content submission, licensing policy, copyright issues, author agreement etc. No one can get success without systematic planning. It is, therefore suggested that the policy of IR should be well defined by the authority.
3. Selection of Hardware and Software

The selection of software plays an important role in building of IR. Similarly, the hardware must be latest which could support the IR for long term sustainability. Selection of software should be done on the basis of standard parameters like customization, network configuration, standard DBMS, users friendly interface etc. Similarly, hardware should be latest with sufficient speed & storage. It is realized during the web survey that some IR are not accessible 24x7 due to reasons like load capacity of server and poor bandwidth.

4 Selection of Content

The content is most important because the quality of content gives value to the repository and as well as increase the prestige and visibility of the organization. It is therefore suggested that the selection of contents should be done carefully and should be reviewed by the subject experts.

5 Periodical Training

All the staff members and users of repository should be well trained for the optimal use and better result; otherwise all the investment and effort on IR will go waste.

6 Critical Reviews and Feedback

The critical review and feedback helps the developers of IR to know the weakness and drawbacks of the system. It has come to noticed during the web survey that many IRs are not reviewed & maintained regularly after implementation. Therefore, the system of cross verification, feedbacks and review of IR is very essential for it success.

7 Regular Maintenance

The maintenance is very necessary for all type of activities. The infrastructure, hardware and software should be properly maintained because establishment of IR involved a lot efforts and Investment.

CONCLUSION

IR’s Institutions is increasingly facing the problem of hike in the subscription rates of journals. Similarly, others resource materials have also become very costly and are becoming out of reach of the libraries. The user pressure on libraries especially in the Institutions of higher learning has increased manifold and as a result the libraries are required to gear themselves to meet their comprehensive and enhanced information needs. On the other hand, new thrust areas are also coming up and libraries need to satisfy these new information needs as well. Thus, the IR’s Institutes have to consider various possible alternatives. In this direction, IR system has emerged as a viable device
for meeting challenges of the increasing cost and to meet the user’s needs. Indian initiatives have proved that there is not much problem in initiating the IR in institutions of higher learning. Some lessons have been learnt which are discussed above and same may be useful for others.

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