

Vol 4 Issue 8 Feb 2015

ISSN No :2231-5063

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International Multidisciplinary  
Research Journal

Golden Research  
Thoughts

Chief Editor  
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Publisher  
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**RNI MAHMUL/2011/38595**

**ISSN No.2231-5063**

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## BUILDING A DIGITAL INSTITUTIONAL REPOSITORY IN INDIA: A STUDY

**Kankana Baishya**

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**Abstract:-**Digital Institutional repository' (IR) can be considered as the most innovative and creative representation of Library and Information Centre through which an academic and research institute showcases and shares its digital outputs. The various steps of building an IR can be sum up with planning, communication, defining repository services, collection building, website design and promotion. Librarian as a host of IR, should himself first learn copyright issues so that he can clearly define the legal obligations in content submissions and other related issues. To increase the use of IRs basically in India web 2.0 technologies should be integrated. IR is a boon for Libraries and a well planned IR may be the best medium to showcase and institute's intellectual output

**Keywords:**Institutional repository, copyright, intellectual property, Open Access

### INTRODUCTION

#### PROBLEMS

Institutional Repository is a fast growing concept among libraries. But its seen that the existence of the IRs are volatile. Formulation of the structured protocol is therefore, necessary while developing an IR

#### SIGNIFICANCE

The study would be of great help for the librarian to implement and develop IR, to employ the needed protocol and to design the IR website.

#### OBJECTIVES

- 1.To find out the protocols to be deployed in IR
- 2.To find out the future prospect of Indian IRS
- 3.To study the best practice of IR

#### METHODOLOGY

Web of Repository site, Europe Pub Med Central and IR of Academy of Sciences have been studies to carry out the research

### INTRODUCTION

Digital Institutional repository' (IR) can be considered as the most innovative and creative representation of Library and Information Centre through which an academic and research institute showcases and shares its digital outputs.

According to C Lynch (2003), Director of the Coalition for Networked Information “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.”

Therefore, in a very nut shell a digital repository is a mechanism to identify, import, export and retrieve digital assets produced by scholars or Institutions.

The IR is an evolving trend for the libraries to manage the scholarly contents and speed up research progress and productivity because of a no. of advantages like increase of impact factor and awareness of research, decrease of plagiarism, authors self archiving, reliable IPR claim etc.

### ROLE OF IR MANAGERS IN DEVELOPING IR

The SHERPA document essentially identifies two roles in repository management:

i)The Repository Manager — who manages the repository policies, the advocacy and communication programme, the internal and external liaisons;

ii)The Repository Administrator — who manages the technical implementation, customization of the repository software and develops value-added technical services for users (SHERPA, 2007 and SHERPA, 2009).

Institutional Repository is the recent responsibility of the libraries to act as a beginner of an open platform to the scholarly world.

The various steps of building an IR can be sum up with the following

**a)Planning:** Prior to the implementation of an IR, the cost effectiveness should be calculated. Setting up cost of an IR involves various issues like server cost, staffing, hardware, software and the maintenance cost. Planning must be done keeping in consideration the ROI and the need.

**b)Communication:** Communication between stakeholders and the higher authority is needed. Internal stakeholders i.e, faculty, research community, administrative units and the internal leaders (rectors, dean, registrars etc) should be given advocacy initiative on advantages and the Open Access Awareness programmes by providing training, help desk and counseling. Some type of survey, experts opinion should be undertaken at the initial stage.

**c)Defining repository services:** The LEADIRS Workbook provides some probable questions to help implementers determining the services to be incorporated into the repository

What is the service’s mission?

What kinds of content will you accept?

Who are the key users?

Who are the key stakeholders?

What responsibilities will the library bear versus the content community?

What are your top service priorities?

What are the short-term priorities and long-term priorities?

**d) Choosing repository software:** Selection of the software should be based on the needs and services and available resources of the repository. Institutions may prefer three types of options available eg Open Source Software, Commercial Software or Software Service Model

**e) Developing repository policies:** The LEADIRS Workbook of MIT Libraries and OpenDOAR registry have defined some policies to assist the repository administrators for formulating their own repository policies. E.g Content and collection policy, Intellectual Property Right Policy, metadata policy, data policy, submission policy, preservation policy etc.

**f) Staffing:** Running a repository may contain two types of jobs Repository managers and repository administrator.

**g) Developing collection:** Repository managers then develop collections, often called communities on the available subjects of the holding organizations contributed by the academic or administrative departments, colleges, centers, units, labs, etc.

**h) Marketing the repository:** Populating the repository is one of the greatest challenges for repository managers. The ongoing promotion of the repository is key to ensuring its visibility and success.

**i) Developing IR Web site:** The institutional repository website should provide all the resources that may be required by depositors and users. Suggested information that can be included on the repository website are, introduction to IR subjects, detail about content contributors, information on creative common, open access, self archiving and SHERPA service, user submission guidelines, various policies, IPR issues and contact details of the administrator.

## BUILDING A DIGITAL IR: A STUDY

The Ranking Web of Repositories ([repositories.webometrics.info/](http://repositories.webometrics.info/)) “provides a list of mainly research-oriented repositories arranged according a composite index derived from their web presence and the web impact (link visibility) of their contents, data obtained from the major commercial search engines”. Therefore world’s top ranked IR defined by the Web of Repository (February, 2015) site is studied to bring out the protocols for best practices.

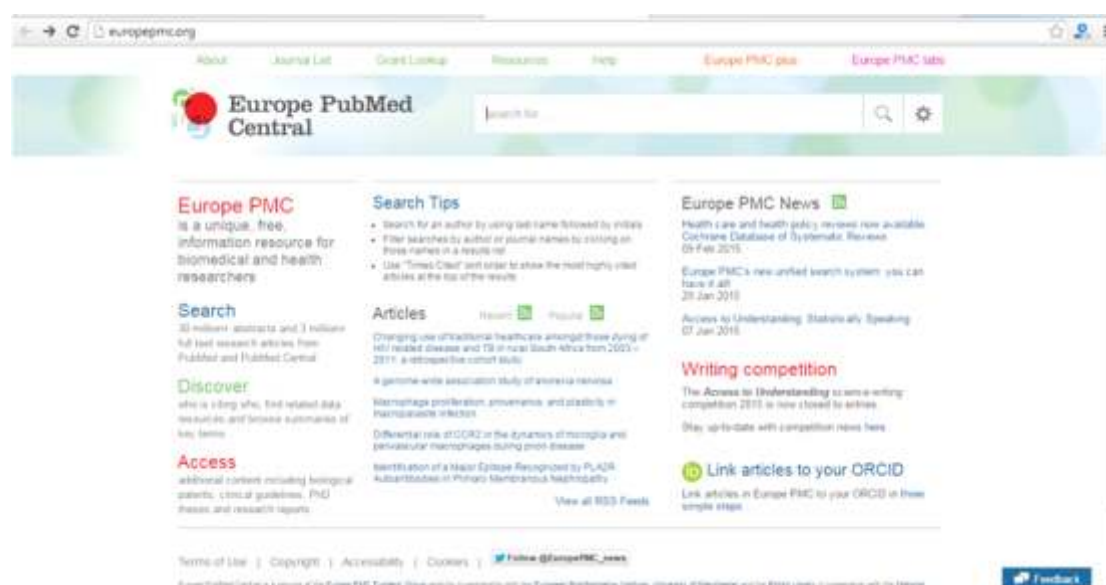
**Name of the Repository:** Europe Pub Med Central (Europe PMC)

**Holding organization:** Europe PMC is developed by the European Bioinformatics Institute, The University of Manchester (Mimas and NaCTeM), and the British Library in cooperation with the National Center for Biotechnology Information at the U.S. National Library of Medicine (NCBI/NLM)

**Web address:** <http://europepmc.org/>

Europe PMC is based on PubMed Central (PMC), developed in 2007 at the NCBI in the USA and is part of a network of PMC International (PMCI) repositories that also includes PMC Canada. The Europe PMC contains the following resources

**Collection:** PubMed abstracts (about 28 million), Europe PMC full text articles (about 2.6 million, of which over 570,000 are Open Access), Patent abstracts (over 4 million European, US, and International), National Health Service (NHS) clinical guidelines, Agricola records (500,000)



Again Indian Academy of Sciences is the top ranking IRs in India according to Web of Science

**Name of the Repository:** Repository Indian Academy of Sciences: An Open Access Repository

**Holding organization:** The Indian Academy of Sciences was founded and registered as a society in 1934

**Collection:** Academy has around 1,500+ scholars. Contains total number of articles published by its members in various national and international publications is around 100,000



Parameters	Facilities of Indian Academy of Sciences	Facilities available in Europe PMC
Benefits of Joining IR	NA	A
Copyright Information	NA	A
Web 2.0 technology (Blog, twitter, RSS etc )	NA	A
Software used	Eprints	software developed by NCBI
Repository Service Defined	NA	A
Citation Export facility	NA	A
Submission Guidelines	A	A
Search tips	NA	A
Advanced Search	A	A
Detailed Policy	A	A
Latest submission view	A	A
Single search platform	A	A
FAQ	A	A
Feedback facility	NA	A

The comparison between both the two top repositories reveals that Indian IRs need to add some more features in the repository in terms of technology and the website information. The study clearly depicts that Indian IRs need to undergo more improvement to further popularize the concept. Integration of web 2.0 features i.e RSS feeds, blog and other social networking site into any websites is the need of the hour. Study shows that Europe PMC is not lagging behind this. Librarian as a host of IR, should himself first learn copyright issues so that he can clearly define the legal obligations in content submissions and other related issues.

#### CONCLUSION

IR managers have to play a significant role to make the scholars aware about the benefits of self archiving while developing an IR. Many Authors reluctant to deposit their contents because of the fear of copyright violation and librarian may take the initiative to motivate the users in Open Access publishing. To increase the use of IRs basically in India web 2.0 technologies should be integrated. IR is a boon for Libraries and a well planned IR may be the best medium to showcase and institute's intellectual output.

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