Digital Repositories in India: An Observometric Study

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Abstract:

In today's changing digital world, there are many innovations taking place and are applied in all walks of Life. Preservation of digital records has came as a boon to help all the libraries, as many repository software's are available and many have used for their organization for this purposes for easy access and retrieval of digitally stored information in the repository. The article is an observometric study of repository software's used in India. The use of software's for the purpose of the storing digital artifacts and numbers of such digital records stored in various repositories are explored here.

Key words:

Repository, Repository software's, Dspace, E Print, Drupal, Green Stone and Open DOAR

1. Introduction:

In today's changing digital world, there are many innovations taking place in all walks of Life. Preservation of digital records has came as a boon to help all the libraries, as many repository software's are available and many have used for their organization purposes for easy access and retrieval of digitally stored information in the repositories. Digital Repository is defined by scholarly communication glossary as "An online, searchable, web-accessible database containing works of research deposited by scholars. Purpose is both increased access to scholarship and long-term preservation. Digital Repositories are often built to serve a specific institution's community of users, in which cases they are called institutional repositories. There are also discipline-specific digital repositories. Today digital preservation is required to manage and maintain digital information in which ever format they are available. These digital information

are managed and in digital formation with Meta-data in original forms. The benefits of the digital technology helping in storing information in a condensed format give a continuous access to all the digital content stored in the repository. It is an Information Systems that store, manage, preserve, and provide access to digital knowledge which serves multiple purposes. Their primary goal is to support scholarly communication and provide open access to articles, dissertations, and research data in case of academic environment. Hence understanding the importance of the which is an online archive used to store digital documents which are available in various format from image, text, books, reports or manuscripts or anything in a digital form.

Definition of Digital Repository

- It is a computer application that allows you to store information and offers different services to the user. Essentially it allows searching and retrieving stored information.

- A collection of items in digital format that can be accessed via an online catalogue. The collection might be collocated on a single server or distributed across numerous locations. The collection may be made available to users within a particular computer network, to registered users or to the public.

 2. Need for Digital Repository

In this information technology era one should need the technology aided services in the Libraries which are digital knowledge space (Institutional Repository) of the organization. Hence the importance of such repositories and its importance are as follows:

- ✓ It enables to have easy access to digital content which are scholarly and institutional research materials generated by its organization;

- ✓ Provides access to a range of materials at other institutions worldwide, where your repository forms part of a global system of interoperable repositories;

- ✓ Provide stable long-term archiving of information and research and research output thereby preserving it for the future.

- ✓ IR allows for information to be widely and quickly disseminated so that it achieves the highest impact;

- ✓ Increases the academic reputation organizations;

- ✓ It helps in generating citation of deposited articles.

3. Digital Repertories and Software's for Libraries:

There are many repository software's available for storing retrieving and managing the digital records. Many good open sources, free sharewares and commercial software's are used in many libraries for sake of building there digital knowledge and making them accessible through web to reach the world. Many are liberally licensed to grant users the right to use, copy, study, change, and improve its design through the availability of its source code rather than its cost.

4. Methodology:

An observation survey of repository software's used by many organizations in India is taken for study. The major sources for such study are taken from Open DOAR a directory of open access repository. After studying directory of repository systems used by the various organizations it is seen that 98 organizations have used for the purpose in Open DOAR. Further details of the study are statistically elaborated below:

4.1 Total Repositories Uploaded

It is seen that many organization in India are using the repository and are extensively used for storing all the digital. The Table No.1 shows maximum use organization is Sodhaganga .There are 907307 metadata records fig no.1 and two gives the numerical details of the metadata. The highest no of records (Metadata) are in Shodhaganga is 29% age of total metadata, the second is Krishikosha 19% and third is Indian Academy of Sciences publication of fellows 16%.
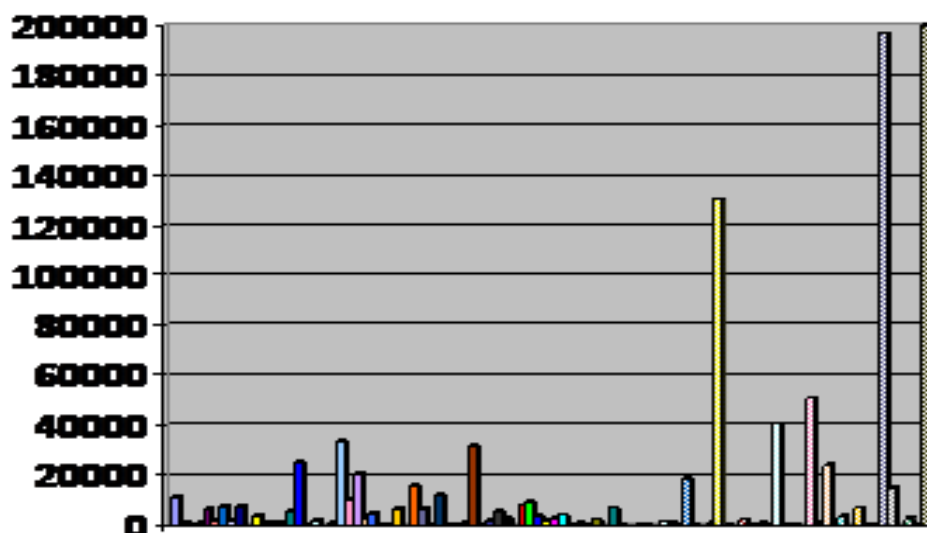
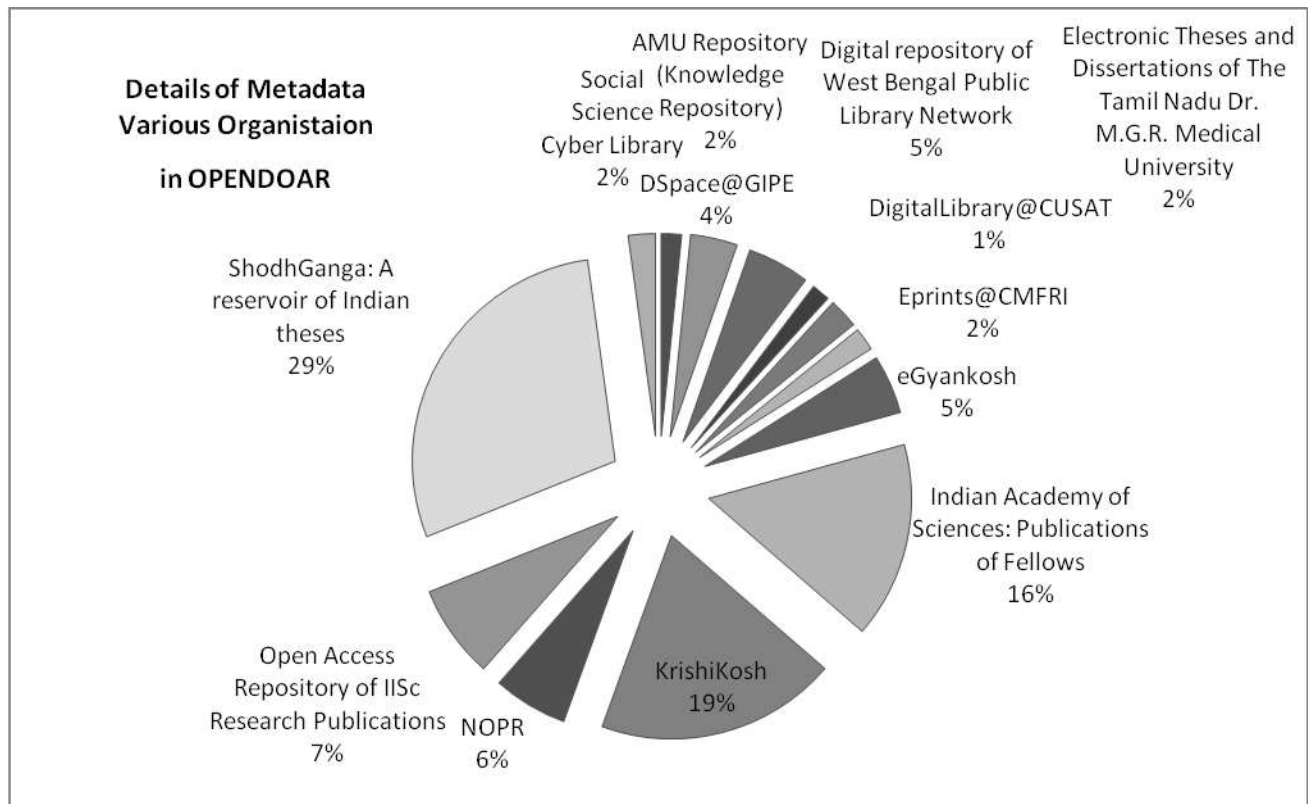

Fig No 1 Repositories in OPEN DOAR

Figure No 2. %age of major metadata of Organization

4.2 Repository Software's Used in India:

The study also shows that the various repository software's as shown in the table no 2. It is seen that 59 % age uses DSpace and 23% age E-print software is used and there 10% age other types of software's are used.

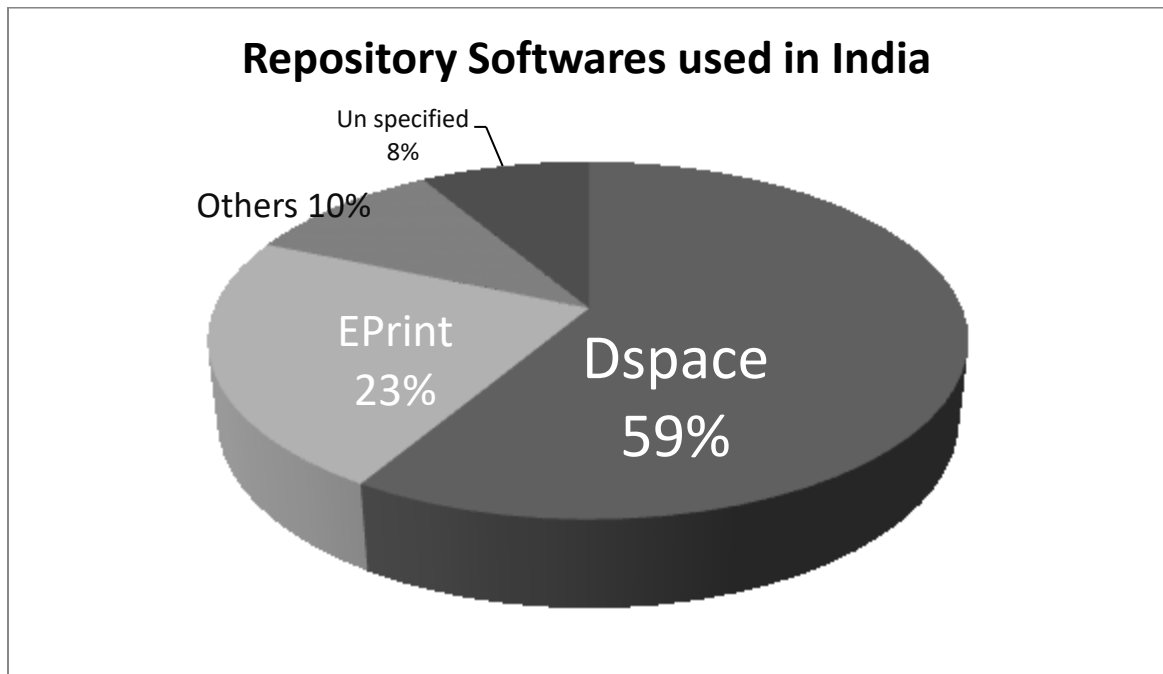| Sl No	Software used	No's
1	DSpace	54
2	Eprints	33
3	Others	6
4	Unspecified	3
5	Drupal	1
6	Greenstone	1
	total	98

Fig No 2: Repository Software's used in India in OPEN DOAR

5. Conclusion:

In today's changing digital world, there are many innovations taking place in all walks of Life. Preservation of digital records has came as a boon to help all the libraries, as many repository software's are available and many have used for their organization purposes for easy access and retrieval of digitally stored information in the repositories. The Observometrics study of Directory of open access repository (OPENDOAR) has given the insight of use of repository and its use. It is observed that the various repositories particularly Dspace and Eprint is more preferred and used software's for the purpose.

References:

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Annexure:

S l No	Organizations	Stored information
1.	AMU Repository (Knowledge Repository)	10930
2.	ARIES, Digital Repository	807
3.	Architexturez South Asia	200
4.	Bhagirathi	1102
5.	CSIR-NAL	6666
6.	DIR@IMTECH	1800
7.	CSIR-NCL Digital Repository	7665
8.	DIR@IMTECH	1800
9.	DRS at National Institute Of Oceanography	7665
10.	DSpace @ GGSIPU	135
11.	DSpace at IUCAA	3912
12.	DSpace at Indian Institute of Geomagnetism	1140
13.	DSpace at Indian Institute of Management Kozhikode	810
14.	DSpace at M S University	834
15.	DSpace at Vidyanidhi	5482
16.	DSpace@GIPE	25449
17.	DSpace@IMSC	365
18.	DSpace@INFLIBNET	1777
19.	DSpace@TU	3645
20.	Digital Knowledge Repository of Central Drug Research Institute	1140
21.	Digital repository of West Bengal Public Library Network	33905
22.	DigitalLibrary@CUSAT	10058
23.	Dspace at IIT Bombay	20783
24.	Dspace@NITR	2850
25.	Dyuthi	4721
26.	dspace @ sdmcet	60
27.	E-Repository@IIHR	486
28.	EPrints@IIT Delhi	6776
29.	Electronic Theses and Dissertations at Indian Institute of Science	3779
30.	Electronic Theses and Dissertations of The Tamil Nadu Dr. M.G.R. Medical University	16199
31.	Eprint@NML	6555
32.	Eprints @MDRF	100
33.	Eprints@CMFRI	12536
34.	Eprints@IARI	230
35.	Eprints@SBT MKU	89
36.	Etheses - A Saurashtra University Library Service	1064
37.	eGyankosh	31971
38.	ePrints@ATREE	572
39.	ePrints@Azim Premji University	2136
40.	ePrints@Bangalore University	6043
41.	ePrints@MoES:Open Access Digital Repository	3118
42.	ethesis@nitr	6543

43.	IACS Institutional Repository	8074
44.	ICRISAT Open Access Repository	9702
45.	IIT Gandhinagar Digital Repository	3989
46.	INFLIBNET's Institutional Repository	1777
47.	IR@CECRI	2640
48.	IR@CGCRI	4255
49.	IR@CLRI	41
50.	IR@NEERI	796
51.	IR@NEIST	340
52.	IR@NPL	2425
53.	Indian Academy of Sciences: Publications of Fellows	106351
54.	Indian Institute of Astrophysics Repository	7071
55.	Indian Institute of Management Kozhikode Digital Library	00
56.	Indian Institute of Management Kozhikode Scholarship Repository	151
57.	Indian Institute of Petroleum Institutional Repository	481
58.	Institutional Repository - University of North Bengal	00
59.	Institutional Repository of Intectual Contributions of Delhi Technological University	841
60.	Institutional Repository of Vidyasagar University	1427
61.	Institutional Repository of the Anjuman-I-Islam's Kalsekar Technical Campus	940
62.	Institutional Repository@CSIO	655
63.	Institutional repository@VSL	18554
64.	KRISHI Publications and Data Repository	00
65.	Kautilya Digital Repository at IGIDR	334
66.	Knowledge Repository Open Network	1210
67.	KrishiKosh	130760
68.	Learning Resource Centre: Digital Repository of Chitkara University	00
69.	Librarians' Digital Library	649
70.	Mahatma Gandhi University Theses Online	2550
71.	Management Development Institute - Open Access Repository	649
72.	NIRT Institutional Repository	962
73.	NIRTIR	00
74.	NOPR	40470
75.	National Repository of Open Educational Educational Resources	00
76.	National Science Digital Library	579
77.	OneWorld South Asia Open Archive Initiative	91
78.	Open Access Repository of IISc Research Publications	50668
79.	Open Access to Odia Books	779
80.	Osmania University Digital Library [OUDL]	24507
81.	openagri	904
82.	RAIITH	3822
83.	RRI Digital Repository	5941
84.	Research Archive of Indian Institute of Technology Hyderabad	7141

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85.	SHIV DNYANSAGAR: Institutional Repository of Shivaji University	00
86.	SSRN	182
87.	ShodhGanga: A reservoir of Indian theses	196538
88.	Social Science Cyber Library	14782
89.	University of Mysore - Digital Repository of Research, Innovation and Scholarship (ePrints@UoM	8660
90.	Vidya Prasarak Mandal - Thane	3144
91.	WeSchool Digital Repository	241
92.	Total	200000

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