

**SHARING OF LITERATURE
THROUGH
DIGITAL LIBRARIES, ACHIEVES,
REPOSITORIES AND KNOWLEDGE
BANKS**

by

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WHY CONTENT MANAGEMENT DIGITALLY IN LIBRARIES

- **Explosion in Publishing**
- **Advances in Information and Communication Technology**
- **Easy, Quick and Wider Access of Library Material**
- **Users Demands**
- **Electronic Publishing**

USE OF COMPUTER TECHNOLOGY IN LIBRARIES

- **Computerization of Libraries Catalogues**
- **Automation of Library Processes**
- **Creation of Library Databases:**
 - **Reference Databases**
 - **Abstracting Databases**
 - **Full-text Databases**
- **Digital Libraries, Achieves, Repositories, Knowledge Banks, etc.**

DIGITAL LIBRARY

A Digital Library Is a Library in Which Collections are Stored in Digital Formats (either Born Digital or Digitize from Print, Microform, or Other Media) and Accessible by Computers. The Digital Content may be Stored Locally or Accessed Remotely Via Computer Networks.

HEC NATIONAL DIGITAL LIBRARY

<http://www.digitallibrary.edu.pk/>

- **Access to International Scholarly Literature**
- **For Pakistani Universities and R&D Organizations**
- **Based on Electronic (Online) Delivery**
- **Access to High Quality, Peer-Reviewed Journals, Databases, Articles and E-Books**
- **75,000 Electronic Content Available**

DIGITAL ARCHIVES

Contains Primary Sources of Information rather than Secondary in Digital Format. These are Developed to Preserve and Make Available Material Which has Long Term Value. In General, Archives Consist of Record that have been Selected for Permanent or Long-Term Preservation on Grounds of their Enduring Scientific, Historical, or Evidentiary Value.

CABI GLOBAL AGRICULTURAL RESEARCH ARCHIVE

<http://www.cabi.org/gara/>

- CABI Pilot Database
- Initiative for Preservation and Dissemination of Agricultural Research Publications of Developing Countries
- Malawi, Pakistan and Philippines Publications
- 2,800(+) Full Text Records
- 1362 Pakistani Records
- PARC Working as National Focal Point

DIGITAL REPOSITORIES

- **It is the Place Where Digital Content (Published as well as Unpublished) are Stored and can be Searched and Retrieved for Later Use. It may Include Research Outputs, Journal Articles, Theses, E-Learning Objects and Teaching Materials or Research Data, etc.**
- **Institutional Repositories Contains Intellectual Assets Like Institution's Books, Papers, Theses, etc. It May also Include Audio-visual Objects, Datasets, Presentations, Learning Materials and Research Works.**

PAKISTAN RESEARCH REPOSITORY

<http://eprints.hec.gov.pk/>

- **Project of the Higher Education Commission**
- **To Promote the International Visibility of Research of Higher Education in Pakistan**
- **Digital Archive of Ph.D. Theses of Pakistani Scholars**
- **Provides Free, Single-Entry Access Point to View the Manuscript**
- **1600 Records**

DIGITAL REPOSITORY OF PAKISTANI PUBLICATIONS ON AGRICULTURE

- **Started by PARC in the Year 2011**
- **To Improve Accessibility, Availability and Use of Pakistani Agricultural Literature**
- **Digital Preservation for Future Use**
- **Full-Text Database**
- **Software Used is DSpace**
- **With More than 600 PARC Publications**
- **On-line Access Work in Progress**

KNOWLEDGE BANKS

Knowledge Banks are Repositories on Specific Subjects, Commodities, Issues, Campaigns or Case Studies, etc.

CEREAL KNOWLEDGE BANK

- **World's Leading Repository of Cereals Especially Rice, Wheat and Maize**
- **Launched in January 2008**
- **Managed by IRRI and CIMMYT**
- **Containing Mostly Extension and Training Materials**
- **Different Countries Developed their National Cereal Knowledge Banks**
- **PARC has recently taken Initiative for developing Pakistan Cereal Knowledge Bank**

Pakistan Cereal Knowledge Bank

<http://www.parc.gov.pk/CKB/CKB.html>

Rice Knowledge Bank

<http://www.knowledgebank.irri.org>

Maize Knowledge Bank

<http://www.knowledgebank.irri.org/maize.htm>

Food Banks

<http://egyptianfoodbank.com>

ON-LINE ACCESS OF DIGITAL CONTENTS

- **Open Access, Provided Free of Charge**
- **Limited Open Access**
- **Mediated Access Provided through Payment**

BENEFITS OF DIGITAL LIBRARIES AND ARCHIEVES

- **No Physical Boundary**
- **Round the Clock Availability**
- **Multiple Users Access to Same Publication**
- **Quick Information Retrieval**
- **Easily Accessible**
- **Increase Frequency of Uses**
- **Hampered by Copyright Law**
- **No Physical Space Required**
- **Cost of Maintenance Lower than Traditional Libraries**

DIGITAL PRESERVATION: SOME ISSUES

- **Durability of the Medium to Keep Data Fresh and in Readable File Format**
- **Migration of Data from one Hardware and Software Configuration to a More Recent One**
- **Reliable Technique for Ensuring Continuous Access of Digital Data**
- **Authenticity and Reliability of Data and Text (not been tempered)**

**DIGITAL SOURCES ARE AT THEIR BEST
WHICH FULFILL ACCESS TO
INFORMATION AND WEAKEST IN
FULFILLING THE RESPONSIBILITY OF
PRESERVATION FOR FUTURE**

THANKS