Need for Digital Libraries in Colleges

Dr. Christina Birdie
Indian Institute of Astrophysics, Bangalore
How and Why Libraries Changing

- Migration from print to electronics
- Co-relation with measures
  - Collections
  - Staff
  - Infrastructure
  - Equipment
  - Space
- Services
  - Inter-library Loan
  - Class-room instruction
  - Gate Counts
  - Electronic Resource Use
  - Printing & Photocopying

Impact of Environmental Factors

- Change in reading habit
- Change in curriculum
- Change in technology & infrastructure
- Use of social media
What is Digital Library?

A digital library is an organized and focused collection of digital objects, including text, images, video and audio with the methods of access and retrieval and for the selection, creation and organization, maintenance and sharing of collection.
Digital Libraries in Support of Student Learning

- Content is current
- Quality of the content
- Comprehensive in content
- Easy manipulation due to various formats
- Students publishing for sharing
- Ready accessibility though distributed
- Easy navigation without interruption
Five Laws of Library (information) Science

- Information for use
- Every piece of information has a user
- Every user has an information
- Access to Network of information saves the time of user
- Information Network keeps expanding
Building a Digital Library @ Planning Stage

- Revisit Collections
- Identify Open Source Software
- Train the library staff
- Plan the hardware, software and network connection
Building a Digital Library @ Implementation Stage

- Segregate collections for digitization
- Design Metadata
- Consolidate contents
  - Born-digital contents
  - Digitized contents
- Add contents regularly
- Be cautious of copy-right issues

Co-relate to Library Collection and Student Requirements
Building a Digital Library @ Marketing and publicizing Stage

- Broadcast to faculty & students with appropriate link
- Monitor usage (in-built statistics enabled)
- Introduce new contents
- Enhance the formats
- Collaborate with faculty for additional contents
Building a Digital Library @ Use and Re-Use Stage

- Influence and minimize downloads
- Motivate for re-use
- Caution about Copyright Issues
- Help users
- Locate resources
- Open Access Vs Traditional Access
- Navigate different interfaces
Building a Digital Library @ Research & Re-invent Stage

- Through Library Webpage
- Through Library Online Catalogue
- Through Library Electronic Bulletin Board
- Through Co-operation and Inter Library Linking
- Dialogue for Library Contents Usage
## Digital Library Softwares

<table>
<thead>
<tr>
<th>Open Source Softwares</th>
<th>Operating System Supports</th>
<th>For Which Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dspace by MIT &amp; HP Labs, USA</td>
<td>Linux, Windows</td>
<td>Research Papers, Theses, Manuscripts, images, mpegs and data sets.</td>
</tr>
<tr>
<td>Greenstone by University of Waikato, New Zealand</td>
<td>Windows, Linux and Mac OS</td>
<td>Theses, Images, Manuscripts</td>
</tr>
<tr>
<td>E-Prints by Southampton University, UK</td>
<td>Linux, Windows</td>
<td>Research literature, Scientific data, Theses, Reports and Multimedia</td>
</tr>
<tr>
<td>Fedora Commons by Researchers at Cornell University, USA</td>
<td>Linux</td>
<td>Books, Reports, Journal Articles, Lecture notes, Technical reports, Thesis, Images, audio/video files, data set files etc</td>
</tr>
<tr>
<td>Invenio, by CERN, European Organization for Nuclear Research, Switzerland</td>
<td>Unix Like OS</td>
<td>Articles, books, journals, photos, videos, and more</td>
</tr>
<tr>
<td>Proprietary Softwares</td>
<td>Operating System Supports</td>
<td>For Which Contents</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DigiTool by Ex Libris, USA</td>
<td>Linux, Unix, Solaris</td>
<td>Research Papers, Theses, Images, Multimedia files.</td>
</tr>
<tr>
<td>Vital by VTLS Inc., USA</td>
<td>Linux</td>
<td>Photographs, slides, sound clips, digital video, conference proceedings, research papers, e-journals, Electronic Theses and Dissertations, and much more.</td>
</tr>
<tr>
<td>CONTENTdm, by OCLC, USA</td>
<td>Linux</td>
<td>Newspapers, Books, maps, slide libraries or audio/video.</td>
</tr>
<tr>
<td>eShelf by Orell Software Solutions Pvt. Ltd., Kochi, India</td>
<td>Windows</td>
<td>Articles, Books, and audio/video.</td>
</tr>
</tbody>
</table>
## Library Automation Softwares

<table>
<thead>
<tr>
<th>Open Source Softwares</th>
<th>Operating System Supports</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KOHA</strong> by Katipo Communications for the Horowhenua Library Trust in New Zealand</td>
<td>Linux, Windows</td>
</tr>
<tr>
<td><strong>NewGenlib</strong> by Kesavan Institute of Information and Knowledge Management, Hyderabad, India</td>
<td>Linux, Windows</td>
</tr>
<tr>
<td><strong>Evergreen</strong> by Public Information Network for Electronic Services (PINES), USA</td>
<td>Linux</td>
</tr>
<tr>
<td><strong>OpenBiblio</strong> by OpenBiblio development team, Maintained By Hans van der Weij</td>
<td>Linux, Windows</td>
</tr>
<tr>
<td><strong>PMB (PhpMyBibli)</strong> by PMB Services (a French Company).</td>
<td>Linux, Windows, Mac OS</td>
</tr>
</tbody>
</table>
## Library Automation Softwares

<table>
<thead>
<tr>
<th>Proprietary Softwares</th>
<th>Operating System Supports</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIBSYS, Libsys Ltd., New Delhi, India</td>
<td>Linux, Windows</td>
</tr>
<tr>
<td>LIBSUITE by Soft-AID Computers Pvt Ltd., Pune, India</td>
<td>Linux, Windows</td>
</tr>
<tr>
<td>SLIM++ by Algorythms Consultants Pvt., Ltd., Pune, India</td>
<td>Windows</td>
</tr>
<tr>
<td>SOUL (Software for University Libraries) Developed by INFLIBNET, Gujarat, India</td>
<td>Windows</td>
</tr>
<tr>
<td>Symphony by SirsiDynix, USA</td>
<td>Unix, Linux, Windows</td>
</tr>
</tbody>
</table>
# Databases

<table>
<thead>
<tr>
<th>Databases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JSTOR</strong></td>
<td>JSTOR provides access to Arts, Business and Economics, History, Humanities, Science and Mathematics, Social Sciences, Law, Medicine and Health (Archive collection of Journals)</td>
</tr>
<tr>
<td><strong>IEEE</strong></td>
<td>IEEE provides Web access to world's most highly cited publications in electrical engineering, computer science and electronics.</td>
</tr>
<tr>
<td><strong>SPIE Digital Library</strong></td>
<td>The World’s largest collection of Optics and Photonics, applied research</td>
</tr>
</tbody>
</table>
OA Repositories Content

- Research Papers
- Annual Reports
- Newsletters
- Theses
- News Paper Clippings
- Technical Reports
- Posters, Brochures...
- Manuscripts
- Books
- Conference Proceedings
- Patents
- Video Files
- Photos
- Pre-prints