Strategic issues of concern to libraries in Southern Africa & the future of integrated library systems

dr Heila Pienaar
Deputy Director: e-Information Strategy & e-Research enablement
Library Services
Content

• Library Services of UP: e-Information Strategy
• Information resources scenario:
  – Open catalogues
  – Interactive journals
  – Digitisation
  – Data curation and manipulation
  – Sophisticated search engines
  – Impact of open access movement
  – Web 2 content
• What is the future of LMS in this environment?
Information resources scenario

- Web 2 content
- Impact of open access movement
- Sophisticated search engines
- Data curation and manipulation
- Open catalogues
- Interactive journals
- Digitisation
Open catalogues

About Us

What if there was a library which held every book? Not every book on sale, or every important book, or even every book in English, but simply every book—a key part of our planet's cultural legacy.

First, the library must be on the Internet. No physical space could be as big or as universally accessible as a public website. The site would be like Wikipedia—a public resource that anyone in any country could access and that others could rework into different formats.

Second, it must be grandly comprehensive. Even when the full text of a book wasn't available, it would take catalog entries from every library and publisher and random Internet user who is willing to donate them. It would link to places where each book could be bought, borrowed, or downloaded. It would collect reviews and references and discussions and every other piece of data about the book it could get its hands on.

But most importantly, such a library must be fully open. Not simply "free to the people," as the grand banner across the Carnegie Library of Pittsburgh proclaims, but a product of the people: letting them create and curate its catalog, contribute to its content, participate in its governance, and have full, free access to its data. In an era where library data and Internet databases are being run by money-seeking companies behind closed doors, it's more important than ever to be open.
Digitisation

With everything on the Net – what is left for academic libraries?

As of June 2006

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Years to Mainstream Adoption</th>
<th>Global Digitisation Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transformational</td>
<td>less than 2 years</td>
<td>Internet2/Next Generation Internet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Personally Owned Devices With Campus Network Access</td>
</tr>
<tr>
<td></td>
<td>2 to 5 years</td>
<td>IP Video for E-Learning</td>
</tr>
<tr>
<td></td>
<td>5 to 10 years</td>
<td>E-Learning Repositories</td>
</tr>
<tr>
<td></td>
<td>more than 10 years</td>
<td>Global Library Digitalization Projects</td>
</tr>
<tr>
<td>High</td>
<td></td>
<td>802.11x on Campus Course Management Systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Higher Education Enterprise Portals Web Services for Administrative Applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CRM for Enrollment Management ID and Access Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Learning Content Management Next-Generation Library Management Systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Open-Source E-Learning Applications</td>
</tr>
<tr>
<td>Moderate</td>
<td></td>
<td>E-Portfolios Podcasting Learning Content RFID Library Materials Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CobiT ITIL</td>
</tr>
</tbody>
</table>

Gartner
Proponents of AI techniques say that one day people will be able to search for the plot of a novel, or list all the politicians who said something negative about the environment in the last five years, or find out where to buy an umbrella just spotted on the street. Techniques in AI such as natural language, object recognition and statistical machine learning will begin to stoke the imagination of Web searchers once again.

Interactive journals

Journal of Interactive Media in Education

http://www.firstmonday.org/issues/issue6_2/buckingham_shum/
Impact of open access movement

• Libraries Can Provide Enhanced Access to OA Works
• Libraries Can Be Digital Publishers of OA Works
• Libraries Can Build Specialized OA Systems
• Libraries Can Digitize OA Versions of Out-of-Copyright Works
• Libraries Can Preserve OA Materials
• Libraries Can Subsidize Author Fees

“The identification of desirable OA materials is more challenging than the identification of conventional electronic materials because there are a large number of potential suppliers, not a limited number of commercial vendors, and these suppliers typically have no special relationship to the library.”
Web 2 content

Amazon

Google / Innovative Mashup

Virtual world (SL) & library

Stockholm Library

Tagging

Youtube video of British Library
Data curation & manipulation

http://stardata.nrf.ac.za/nadicc/

Research Data Life Cycle

- Data acquisition
- Data ingest
- Metadata
- Annotation
- Provenance
- Data storage
- Data cleansing
- Data mining
- Curation
- Preservation
What is the future of integrated library systems in this environment?