Content Management Strategies for the Digital Era:
Opportunities and Best Options for (learning) Organizations

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Librarian & Head, CDDL, IIM Kozhikode
Agenda

• The Information Paradigm – Some Thoughts
• Information Management Trends in Libraries
• (Best) Practices in LIS
• Library Automation – the ‘KG’ thing of LIS Modernization
• Digital Libraries – Overview
• Open Access – Overview
• Open Access Archives – Institutional Repositories
• Information Aggregation and Integration Strategies
• Emerging Technologies
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Wait, isn't that the library?
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Future Libraries?

What is a library and what should it be in 2012, 2020 and beyond…

- What does the academic library of the future look like?
- Where do its walls begin and end?
- On campus?
- On our desktop?
- At home?
- Does it still have a function as a separate and distinct space?
- Or has it become the first step to an all-virtual future?
- Libraries have never been more interesting, difficult and challenging…
Challenges of the Day

✓ Relevance of Libraries in the Google Era
✓ Retention of Users, especially the New Gen
✓ Proliferation of Content
✓ Diverse Datastreams - Content Categories, Publication Types
✓ Multimedia, Polymedia, Multiformats
✓ Collection Building – Acquisition, Subscriptions, Licensing…
✓ Copyright, Intellectual Property, Fair Use…
✓ Technology Complexities, Infrastructure Issues
✓ Publishers’ Stringent Policies / Monopolies
✓ Integration of legacy systems and the new genre
Factors of Change

Electronic Publishing
Internet & Web
Intranets

Digital Libraries
Knowledge Management
E-Information: Usage and User Behavior

Experiences? Lessons? Impact? Implications?
IM: Key Goals

- Develop and manage a dynamic, unified information resource base (content repository) that gathers and organizes relevant internal and global information resources, based on a taxonomy of information needs of the enterprise, and make these available for learning and informed decision making.
IM : Key Goals…

- Support different manifestations of information sources – implicit/explicit, print/digital, local/remote, free/commercial, etc.
- Support for delivering personalized information services to staff, both on demand and in anticipation.
• User Generated Internet Content:
  – Blogs
  – YouTube
  – MySpace

• And the same is TRUE with Scholarly Communication too!!
Concerns

• In an information world in which Google apparently offers us everything, what place is there for the traditional, and even the digital, library?

• In a library environment which is increasingly moving to the delivery of online rather than print resources, what of the academic library’s traditional place at the heart of campus life?

• What about the impact of repositories and open access on the delivery of library resources?

• And the need to digitise and make more widely accessible key scholarly resources?

• And what of the calls for libraries to play a central role in the promotion of ‘information literacy’?
The Google Generation
Magic of the Web

- The universe (which others call the Web) is the place where society keeps the sum total of human knowledge. It's where we learn and play, shop and do business, keep up with old friends and meet new ones ...

- Today we stand at the epicenter of a revolution in how society creates, organizes, locates, presents, and preserves information ...

- .... It's all the Web ....

*Ian Witten et al. in "Web Dragons"*
New Drivers for Change - Environment

- Ubiquitous use of the Web
- “Simpler” search techniques (Google)
- “Information to go”
- Same data, different presentations
- Open access and new publishing models
New Drivers for Change - Environment

- Social, personal and work activities blurred
- Information users as information providers
- Interactive do-it-yourself capability of the Web is at odds with highly-wrought library systems
- Technical/licensing/copyright issues
- A volatile landscape of rapid change
New Drivers for Change - Students

• Integration of library with VLE
• Web 2 and social networking
• Amazon/supermarket profiling approach
• The digital native generation
• Students as paying customers
New Drivers for Change - Research

- Access to deep web
- Underlying data important for research
- Re-use of data is possible
- Deposit in institutional repositories
- Mass digitisation (Google, MS, JISC)
information behaviour of
the researcher of the future
11 January 2008
setting the scene
what are the aims of this study?

This study was commissioned by the British Library and JISC to identify how the specialist researchers of the future, currently in their school or pre-school years, are likely to access and interact with digital resources in five to ten years’ time. This is to help library and information services to anticipate and react to any new or emerging behaviours in the most effective way. In this report, we define the ‘Google generation’ as those born after 1993 and explore the world of a cohort of young people with little or no recollection of life before the web.

The broad aims of the study are to gather and assess the available evidence to establish:

• whether or not, as a result of the digital transition and the vast range of information resources being digitally created, young people, the ‘Google generation’, are searching for and researching content in new ways and whether this is likely to shape their future behaviour as mature researchers?

• whether or not new ways of researching content will prove to be any different from the ways that existing researchers and scholars carry out their work?

• to inform and stimulate discussion about the future of libraries in the internet era

These questions are of enormous strategic importance but they need to be balanced against considerable media hype surrounding the ‘Google generation’ phenomenon, so a healthy degree of critical distance is needed. A bewildering array of titles has attached itself to a younger generation that is growing up in an internet-dominatmed, media-rich culture: Net Generation, Digital Natives, Millennials and many others. The untested assumption is that this generation is somehow qualitatively ‘different’ from what went before: that they have different attitudes, attitudes, expectations and even different communication and information ‘literacies’ and that these will somehow transfer to their use of libraries and information services as they enter higher education and research careers.
Google Syndrome

• Can we assume that a search engine will – intrinsically – teach students how to find, manage and interpret information ??
Google Syndrome

• If a generation of students in primary and secondary schools, particularly in the state sector, are “managing” education without a properly funded library and the help of qualified librarians, then not only will literacy levels and examination results suffer, but so will our universities and workplaces.
Top Tech Trends in IT / LIS

• Web 2.0 / Library 2.0
• Blogs / RSS Feeds / Wikis / Podcasts / Webcasts
• Open Source Software, Open Standards, Open URL
• User Tagging, Automated Tagging
• Web OPACs, and Interface Design
• Seamless Integration / Aggregation
• OA -> OAP + OAA
• Open Resource Discovery Tools - Google Scholar
• E-Books, E-Journals, E-Resources
• Harvesting, Federation, Metasearching
• Digital Rights Management
Emerging Publishing/Access Models and the I³

- Open Access Archives
  - Open Archives/Initiative OAi / OAI
- Open Access Publishing
  - OA Journals
- Open Source
- Open Standards
- OpenURL
  - Open URL Framework
Information Strategy Tips

✓ Context       = Scenarios, Paradigms
✓ Constant      = Change
✓ Technology    = Facilitate, and NO intimidate
✓ Information  = The Big Picture - Landscape
✓ Content       = Aggregate, Integrate
✓ Service       = Markup, Market
✓ Capital       = Human, Tacit, Values, and Users
The Information Landscape

Popular Information

Web Resources

Surface Web, Deep Web, Multi-Modal Semantic Web

Scholarly Information

Books, eBooks, JLS, eJournals, Scholarly Articles, ePrint Archives, ETDs, eCourses

Digitized Information (DL Initiatives)

Commercial, National, State & Local Level NGOs

Books, eBooks
POD, JLs, eJLs, Newspapers
AV media
<table>
<thead>
<tr>
<th>L 1.0</th>
<th>L 2.0</th>
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<tr>
<td>Closed stacks</td>
<td>Open stacks</td>
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<tr>
<td>Collection development</td>
<td>Library suggestion box</td>
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<td>Preorganized ILS</td>
<td>User tagging</td>
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<td>Walk-in services</td>
<td>Globally available services</td>
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<tr>
<td>“Read-only” catalog</td>
<td>Amazon-style comments</td>
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<tr>
<td>Print newsletter mailed out</td>
<td>Team-built blog</td>
</tr>
<tr>
<td>Easy = dumb users</td>
<td>Easy = smart systems</td>
</tr>
<tr>
<td>Limited service options</td>
<td>Broad range of options</td>
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<tr>
<td>Information as commodity</td>
<td>Information as conversation</td>
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<tr>
<td>Monolithic applications</td>
<td>Flexible, adaptive modules</td>
</tr>
<tr>
<td>Mission focus is output</td>
<td>Mission focus is outcome</td>
</tr>
<tr>
<td>Focus on bringing ‘em in</td>
<td>Focus on finding the user</td>
</tr>
<tr>
<td>ILS is core operation</td>
<td>User services are core</td>
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Penetration of E-Content in Libraries

<table>
<thead>
<tr>
<th>PUBLICATION TYPES</th>
<th>DOCUMENT FORMATS</th>
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</thead>
<tbody>
<tr>
<td>• E-Books, E-Journals...</td>
<td>• ASCII, RTF, HTML, SGML, Postscript, PDF, Proprietary, Native Application Formats</td>
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<tr>
<td>• Aggregated Scholarly E-Journal Databases</td>
<td>• Images, Graphics</td>
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<td>• Databases, CBT/ WBT</td>
<td>• Audio</td>
</tr>
<tr>
<td>• Portals, Vortals...</td>
<td>• Video</td>
</tr>
<tr>
<td>• Value added services</td>
<td>• XHTML, ASP, PHP, XML ...</td>
</tr>
<tr>
<td>• Preprints, Eprints, E-Documents....</td>
<td></td>
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Major Drivers

- Information/Knowledge - Proliferation
- Technology Progress (push)
- Open Standards / Technologies
- Open Source Software
- Market Demands
- Community / Society
The Changing (challenging) Role of Information Professionals

- Book keepers
- Bit Keepers

- (Book/Journal) Stores Officers/Custodians
- Information providers
- Content / knowledge providers
- Content / knowledge sellers
Good (Best) Practices

- Skill Sets – Leadership, Communication, Team Work, CE, Perseverance, Persistence….
- Flexibility / Open to Learning / Accept Changes
- Open Source Philosophy
- Open Access Advocacy
- Preach as well as Practice
- Sharing of Knowledge Acquired
Seamless aggregation and integration of diverse datastreams: Essential strategies for building practical digital libraries and electronic information systems

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Center for Development of Digital Libraries (CDDL), Indian Institute of Management Kozhikode (IIMK), IIMK Campus P.O., Calicut 673570, Kerala, India
Strategy Facets - for an excellent hybrid ambience

1. Value and Preserve the Traditional Systems while Embracing Technology for Development
2. Aggregation / Integration Strategies
3. Library Automation (integration of the traditional library activities/collection)
4. Digital Library (creation of efficient information systems using digital collections for effective browse, search, retrieval and long-term preservation)
5. OA Archives (pooling the organization’s intellectual capital)
6. Library Portal (seamless integration of the organization’s entire knowledge base—traditional, paper as well as electronic technologies)
7. Consortium Approach to Library Subscriptions
Strategic Planning

• How to map / scale (assess) the information needs / requirements of the Organization
• How to Communicate this to the Management
• How to build infrastructure – Planning, Execution
• How to Collect, Consolidate, Build and Preserve Local Content
• How to build E-Resources / Published Content
• Information Literacy to Information Professionals
• Information Literacy for Users
Libraries - Shifts

• Traditional / Automated
  » Organization is physical
  » Shelving of documents - Based on Subject Cln
  » Key - Index / Catalogues / Cards / Digital Catalgs
  » Cards - Real/Virtual - Author, Title, Descriptions

• Digital
  » Organization in terms of digital files /objects
  » Contains material digitized form
  » Contains digital material
  » Architecture
  » Key - Metadata
Shift in Approaches

Traditional
Limited/ Rigid

Automated
Improved

Dig. Library
Efficient/ Flexible

AACR2
CCC
CC / LCCS
DDC / UDC
Thesauri/LCSH

AACR2
ISO 2709
CCF
MARC
Thesauri

Metadata
DCMI -- W3C
EAD, TEI, DTD
METS, MODS,
Z39.50
MARC21
OAI-PMH
Digital libraries ... features

• Knowledge/content management
  – Manage and access internal information assets
• Scholarly communication, education, research
  – E-journals, e-prints, e-books, data sets, e-learning
• Access to cultural collections
  – Cultural, heritage, historical & special collections, museums, biodiversity
• E-governance
  – Improved access to government policies, plans, procedures, rules and regulations
• Archiving and preservation
• Many more …
The Greenstone Software

• Software suite for building, maintaining, and distributing digital library collections
• Comprehensive, open-source
• Developed by New Zealand Digital Library Project at the University of Waikato
• Distribution and promotion partners:
  – UNESCO
  – Human Info NGO, Belgium
  – NCSI, Bangalore; UCT, Cape Town;
  Dakar, Senegal; Almaty, Kazakhstan; …
  – You!
Features of Greenstone

- Open Source Philosophy
- Interfacing & Content Delivery via Web
- Multi S/W Platform
- Multi Lingual Support
- Multi Formats
- Structured Metadata in XML using DC
- Metadata Extraction
- Searching & Browsing
- Plug-ins for Documents

- Full-text mirroring
- Text Level Penetration
- Data Compression
- Password protection
- Administrative Functions
- Concurrent & Dynamic Content Development
- Uniform Presentation
- Publishing on CDROMs
- International Presence
Greenstone Features contd...

- Easy Installation
- Easy Maintenance
- Content Development (3 alternate ways)
- Predominantly GLI now - since (V. 2.41)
- Hierarchy Structure
- Interface Customization
  - Front Page Design, Header for the Digital Library, Collection Icon, Cover Images
- Collection Configuration (Collect.cfg) File
- Scalability, Flexibility
- Interoperability (Crosswalk), OAI Compliance
- Lifeline: Listserv / E-Group / Archives
Greenstone DL Software

Access
✓ Accessible via any Web browser
✓ Server runs on Windows and Unix
✓ Collections can be published on CD-ROM

Searching/browsing
✓ Full-text and fielded search
✓ Flexible browsing facilities
✓ Metadata-based (Dublin Core)
✓ Collection-specific
✓ Hierarchical phrase browsing supported
✓ Creates all access structures automatically

Extensible
✓ Plugins — new document, metadata formats
✓ Classifiers — new metadata browsers

Multilingual
✓ Documents and interfaces
✓ Chinese, Arabic, Maori, Russian etc (+ European, Indian Languages)
✓ Multimedia: video, audio collections exist
A Word About Open Access
Ground Realities

• World Over, Institutions / Agencies Fund Research (mostly Govt.s & NGOs)
• Authors want to publish/share their findings/thoughts with peers
• Authors give Copyright to Publishers
• Publishers do not give Authors access to the paper by default
• If your Institute/library is not subscribing to the Journal, you will have to be satisfied with the Offprints the publishers give
Upcoming Models of Scholarly Communication Value Chain

Author

Editor

Peer Review

Primary Publisher

OA Archive - Couple of Hrs. Max.

E-Publishing - 3-4 Weeks

Conventional Model – 52 Weeks

Reader

Library

Distributor

Secondary Publisher

OA Archive (2 - 3 hours)

E-Publishing (3 - 4 weeks)

Conventional Publishing (52 weeks)
Institutional Scholarly Knowledge

• PUBLISHED
  – Journals / Journal Articles
  – Conference / Symposium Papers
  – Books / Book Chapters
  – Patents
  – Cases
  – ...

• UNPUBLISHED
  – Theses / Dissertations
  – Working Papers
  – Technical Reports
  – Coursewares
  – Classroom Presentations (Videos, Audios, PPTs…)
  – Lecture Notes
  – Guides / Manuals
  – …
Open Access

- Open Access Publications (OAP) – Golden Road
  +
- Open Access Archives (OAA) – Green Road
YOU WRITE THE PAPERS,  
YOU REVIEW THE PAPERS...

WHY SHOULD YOU PAY TO READ THEM?

www.plos.org
Welcome to the Directory of Open Access Journals. This service covers free, full text, quality controlled scientific and scholarly journals. We aim to cover all subjects and languages. There are now 3656 journals in the directory. Currently 1259 journals are searchable at article level. As of today 210049 articles are included in the DOAJ service.

SPARC Europe and DOAJ Announce the Launch of the SPARC Europe Seal for Open Access Journals
More info
Support the development and operation of DOAJ. Sign up for membership - go to the membership page.
We are very thankful for the support from those of you who have already decided to become DOAJ members. See the list of members

Browse by title
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Browse by subject
Expand Subject Tree
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Browse by subject

Expand Subject Tree

- Agriculture and Food Sciences
- Arts and Architecture
- Biology and Life Sciences
- Business and Economics
- Chemistry
- Earth and Environmental Sciences
- General Works
- Health Sciences
- History and Archaeology
- Languages and Literatures
- Law and Political Science
- Mathematics and Statistics
- Philosophy and Religion
- Physics and Astronomy
- Science General
- Social Sciences
- Technology and Engineering

OpenDOAR

The Directory of Open Access Repositories - OpenDOAR

Search for repositories | Search repository contents | List of repositories | Repository Statistics

OpenDOAR is an authoritative directory of academic open access repositories. Each OpenDOAR repository has been visited by project staff to check the information that is recorded here. This in-depth approach does not rely on automated analysis and gives a quality-controlled list of repositories.

As well as providing a simple repository list, OpenDOAR lets you search for repositories or search repository contents. Additionally, we provide tools and support to both repository administrators and service providers in sharing best practice and improving the quality of the repository infrastructure. Further explanation of these features is given in a project document Beyond the list.

The current directory lists repositories and allows breakdown and selection by a variety of criteria - see the Find page - which can also be viewed as statistical charts. The underlying database has been designed from the ground up to include in-depth information on each repository that can be used for search, analysis, or underpinning services like text-mining. The OpenDOAR service is being developed incrementally, developing the current service as new features are introduced. A list of Upgrades and Additions is available.

Developments will be of use both to users wishing to find original research papers and for service providers like search engines or alert services which need easy-to-use tools for developing tailored search services to suit specific user communities.

The importance and widespread support for the project can be seen in its funders, led by the Open Society Institute (OSI), along with the Joint Information Systems Committee (JISC), the Consortium of Research Libraries (CURL) and SPARC Europe.

OpenDOAR has also been identified as a key resource for the Open Access community (KB Oliver & R Swain, 2006 - PDF), and was one of the services which contributed to SHERPA being awarded the SPARC Europe Award for Outstanding...
Open Access Initiatives In India

- Institutional Repositories (evolving)
  - [http://casin.ncsi.iisc.ernet.in](http://casin.ncsi.iisc.ernet.in)
  - Software: DSpace, E-Prints
- Subject Specific Repositories
  - Science/Technology – EPrints@IISc [http://eprints.iisc.ernet.in](http://eprints.iisc.ernet.in)
  - Engineering / Technology [http://eprint.iitd.ac.in/dspace/](http://eprint.iitd.ac.in/dspace/)
  - Librarian’s Digital Library (LDL) [http://drtc.isibang.ac.in/DRTC/index.html](http://drtc.isibang.ac.in/DRTC/index.html)
  - OpenMed@NIC [http://openmed.nic.in](http://openmed.nic.in)
  - Management – DSpace@IIMK [http://dspace.iimk.ac.in](http://dspace.iimk.ac.in)
- Electronic Theses and Dissertations
  - INFLIBNET and UGC [http://dspace.inflibnet.ac.in](http://dspace.inflibnet.ac.in)
  - Vidyanidhi [http://www.vidyanidhi.org.in](http://www.vidyanidhi.org.in)
- Cross Archives Search Services for Indian Repositories (CASSIR) [http://ardb4.ncsi.iisc.ernet.in/oai](http://ardb4.ncsi.iisc.ernet.in/oai)
Open Access Initiatives In India...

- Open Access Journals
  - Indian Academy of Sciences (11 journals)
    http://www.ias.ac.in/pubs/journals
  - Indian National Science Academy (4 jls)
    http://www.insa.ac.in
  - Indian MEDLARS Centre (NIC) (38 jls)
    http://medind.nic.in/
  - MedKnow Publications (28 jls)
    http://www.medknow.com/journals.asp
  - Indianjournals.com (7 jls)
    http://www.indianjournals.com
  - Kamala-Raj Enterprises (5 jls)
    http://www.krepublishers.com/KRE-New-J
Open Access Literature (Resource Discovery)

• Directory of Open Access Journals (DOAJ) - 3270+ [http://www.doaj.org/]

• Open J-Gate – 3000+ Journal, Millions of Citations [http://openj-gate.com/]

• Open DOAR – 1000+ OA Archives [http://www.opendoar.org/]

• ROAR: Registry of Open Access Repositories – 1000+OAA [http://archives.eprints.org/]

• Scientific Commons – 901 OAA, 18029988 Articles, 2356949 Authors [http://www.scientificcommons.org/]

• OAIster – 934 OAA + 14,673,867 records [http://oaister.umdl.umich.edu/o/oaister/]

• DMOZ - 59 OAA [http://dmoz.org/Science/Publications/Archives/Free_Access_Online_Archives/]
Recently added Publications

Greek tragedy : a literary study / H.D.F. Kitto (1961)
Kitto, Humphrey David Findley
Incluye índice

Team incentives in public organisations; an experimental study (2006)
Koning, P., Wraatseko, J., Onderstal, S.
Using a simple production game, we investigate whether public firms perform better when they increase the power of their workers' incentive schemes. In a laboratory experiment, subjects choose...

Koning, P.
In this paper, we measure the effectiveness of the Dutch public employment service (PES) for various performance measures, ranging from outflow rates to the timeliness of the benefits allocation....

Simulation of Free Surface Compressible Flows Via a Two Fluid Model (2008)
Dias, Frédéric, Dutykh, Denys, Ghidaqia, Jean-Michel
The purpose of this communication is to discuss the simulation of a free surface compressible flow between two fluids, typically air and water. We use a two fluid model with the same velocity,...

Osipova, Natalia
Discriminatory Processor Sharing policy introduced by Kleinrock is of great interest in many application areas, including telecommunications, web applications and TCP flow modelling. Under the DPS...
DSpace Software / Utilities

1. Java SDK 1.4.2
2. Apache 2.0.54
3. Tomcat 5.0.28
4. mod_jk 2.0.4
5. Apache Ant 1.6.5
6. PostgreSQL 8.0.2
7. DSpace 1.5x / 2.x
Welcome to our digital repository of Indian Institute of Technology Delhi research and Electronic Submission of Theses and Dissertations [ETD].

See other Digital Collections at Eprints@Central Library, IIT Delhi. Click here to go.

Search
Enter some text in the box below to search DSpace.

Communities in DSpace
Select a community to browse its collections.

Convocations [8]
Electronic Theses and Dissertations [30]
Faculty Research Publications [2070]
Students Publications at IIT Delhi [0]
Information (Content) Aggregation / Integration

- Library Automation
- Library Portal
- Digital Library
- Institutional Repository
- Library Consortia
Need for Content Integration / Organization

- Assuring Seamless Access to the Content
- Need for a single Info. Gateway / Access Point
- Multi-Formats, Media, Platforms (Content / Data in different formats)
- Data encoding (role of markup languages)
- Role of Metadata (role of Standards)
- Structured Metadata (role of XML)
- Need for Interoperability
- Interface / Delivery / Presentation
- Exorbitant cost of proprietary DL S/W
KM Systems - Flaws

• Historically, the goal of knowledge management has been to create, capture, preserve, and distribute information to drive finite and tangible objectives, such as improving competitiveness, fostering innovation, and streamlining organizational effectiveness.

• However, most knowledge management solutions exist merely as passive repositories.
KM – Next Progression

• It is the confluence of content management systems, knowledge management systems, and social tools to create networks of knowledge.

• Once an organization’s knowledge repositories combine with the “wisdom of the community,” a fundamentally new approach to socializing knowledge and enhancing an organization’s innate intelligence is created.

• Called “Social Intelligence”.

• That taps into an organization’s social intelligence through the creation of social knowledge networks
2.0-style Service Examples

- Blogging
- User tagging
- Folksonomies
- User comments
- User ratings
- RSS feeds
- Feed aggregators
- Wikis
- Skypcasts
- Community citation services
- Community photo services
- Community book services
Other Websites with 2.0 Characteristics

- Flickr
- eBay
- De.licio.us
- Second Life
- CiteULike
- Librarything
- Connotea
- LiveJournal
- MySpace
- Technorati
- Netflix
Key Library 2.0 Concepts

- The library is everywhere*
- The library has no barriers*
- The library invites participation
- The library uses flexible, best-of-breed, component-based systems
- The library is a human-centered organization

* Also stated as the concept of the library as a place of unrestricted access to information (McDonald, 2006)
Common Traits of 2.0 Services

- Interactivity
- Respects and leverages user contributions
- Complementary/compatible/cross-referential
- Treats information as a conversation
- Emphasis on ease of use
- Sharing—use/reuse/remix/mashups encouraged
Another angle on 1.0 versus 2.0...

- Library 1.0 is a pull model
  - Acquire / store / lend / find

- Library 2.0 is a push model
  - Acquire / store / broadcast / converse
Blog: like a personal newspaper

- Easy to use
- Free (at basic level)
- Easy to stay updated
- Encourages sharing and engagement
IM (Instant Messaging):

- Easy to use
- Free (at basic level)
- Encourages sharing and engagement

LOL... bcnu
Multimedia Library Info System

Internet / Intranet

USER @ anywhere (access to information from anywhere)
Welcome to

A vibrant Library & Information Centre (LIC) embracing the print and digital resources is on its way to becoming an outstanding learning resource centre catering to the ever growing and uncompromising information and intellectual requirements of the students, faculty, and researchers.

A balanced programme on the development of the collection of hard copy, audio/video, CD-ROM, and other electronic forms of documents is being followed. The LIC has one of the finest collections of latest management publications.
Welcome to IIMK’s institutional repository, a scholarly archiving facility for the IIMK community. It uses the BSD DSpace software, jointly developed by MIT Libraries and Hewlett-Packard Labs. This software enables the Institute community to archive their preprints, post prints, and other publications. In keeping with the objectives of the Open Access movement, we expect this system to facilitate the Institute researchers in self-archiving and long-term preservation of their publications, provide easy access to these publications world wide and improve impact of the research. While dspace@iimk can be accessed by anybody, submission of documents to this system is limited to the IIMK research community. Your comments and suggestions for improving this system are most welcome. Please send your feedback to the Archive Administrator.
Library 2.0

Library that LETS
- The library invites participation
- OPAC
  - Federated search
  - RSS for cataloging records & search results
  - Records tagging
  - User reviews
- THE PHYSICAL LIBRARY
  - Loud spaces for collaboration & conversation
  - Mobile devices for users

Library
- that fits
- that suggests
- that learns
- that gathers
- that combines
- that organizes

Integration with (e) learning environment

Staff
- Creation of an Emerging Technology Committee

Library is a framework for integrating change into all levels of library operations

1. User-centricity
2. Technology-savvy environment
3. Reaching of the patrons long tail
4. Content for more than one device
5. Component-based software, not monolithic ILS
6. Constant change
7. Use of Web 2.0 apps and services
8. Open standards

The library is everywhere

The library uses flexible, best-of-breed systems

Patron 2.0 = from content consumer to content creator

The library has no barriers

The library is human

Social computing apps to meet users’ need when, where and how they need it
E Ink Paper Display
Enabling Technology
Easy-to-Read Revolutionary
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ROBIN HOOD.

EARLY SCHOOL-DAYS.

Hood and his merry foresters were

Marriage of Allan Dale

The Foresters' Welcome

Hood and the Prince

The Bishop of Hereford

The Knight of Wanton

The Golfer's Arrow

The Outlaw's Almessage

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ROBIN HOOD'S REVENGE.

the animal was at a considerable distance farther off than the space agreed upon, Robin would not lose the chance; he drew his arrow to the head, and let fly with such force that when it struck the deer upon its side the poor creature fell plunging to the earth in a stream of its own blood.

"'Give me the money,' said Robin Hood proudly, to the host, 'if 'twer a thousand pound, I've won the wager.'

"'The wager's none of thine,' cried the man with whom he had laid the bet. 'Thou hadst better take up thy bow and begone, or by' r lady I'll make thee rue this day,' and thus saying he bestowed a buffet on the young archer's head, while the other keepers stood by and laughed.

"Robin Hood took up his bow as he was bidden, without saying a word, and smiled as he ran away from them across the plain. When he had got some good distance off, he turned round, and aiming at the treacherous forester, let fly a shaft which struck him upon the breast, pierced his heart, and laid him dead upon the spot. Before his companions had recovered from their surprise, Robin Hood sent arrow

THE OLD ENGLISH FORESTS.

after arrow among them, wounding some severely, and stretching others lifeless upon the grass.

"The people of Nottingham hearing of this, came out in great numbers to take the bold young archer, but he had escaped far away before they arrived; therefore, contenting themselves with taking the bodies of the dead foresters, they buried them 'all in a row,' in the churchyard in Nottingham.

"For a long time afterwards Robin Hood dared not show himself in any town or village, as a reward was offered for his apprehension; but he lived in the forests under the green-wood trees, where he quickly met with several other youths who for various causes had been outlawed like himself.

"In these times immense tracts of land, especially in Nottinghamshire and Yorkshire, were covered with dense woods, which generally abounded in deer and every description of game; and as these were the property of the king, rangers or foresters were appointed for their protection, and the penalty against any one who dared to slay a stag was death.

"Robin Hood and his companions cared very little for these rangers, who indeed stood but a poor chance
ROBIN HOOD'S REBELLION.

but soon growing tired of the confinement of the court, he asked permission to revisit the merry woods. The king granted him seven days, but when Robin Hood breathed the delightful air of Sherwood, and heard the songs of the sweet birds, he could not bear himself away. He ranged through many a well-known thicket and oft-frequented lawn, and in the ecstacy of his delight he set his bugle horn to his mouth, and made the old trees re-echo with the blast. To his great astonishment it was replied to, and four-score youths bounded towards him. Several had deserted him in London, and many who were at first disbandcd had returned to their favourite haunts, and Robin Hood was again acknowledged as the leader of a forest band. Little John and Will Scarlet soon learned the intelligence, and with all speed joined him with the rest.

"King Richard was enraged; he sent a renowned knight with two hundred soldiers to capture the rebellious outlaw, and a desperate fight took place upon a plain in Sherwood forest. It lasted from sunrise to sunset, but neither party could boast of victory, and the knight lost many of his men. Robin Hood himself was wounded by an arrow, and was obliged to be taken to Kirkdeys Nunnery, where he was treacherously suffered to bleed to death by the prioress. As he found his end approaching he called Little John to him. 'Carry me into the woods, I entreat thee,' he said to him;

"'And give me my best bow in my hand,
And a broad arrow I'll let flee;
And where this arrow is taken up
There shall my grave digged be.'

"The outlaw shot his last bow. His shaft flew feebly to a short distance, and fell beneath an oak. He leaned back into the arms of his faithful attendant—and died. His wish was complied with; and a stone was placed upon the green sod to mark the last resting-place of the brave Robin Hood; it bore this inscription:

"Here, underneath this little stone,
Lies Robert, Earl of Huntington.
He's neither dead as he do good;
And people called him 'Robin Hood.'
Surely outlives as he and his men
Wilt England never see again.'

M
Information Landscape [print/digital]

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