Discussion on Technology

With Bruce & Doug

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Available Technology

Web 2.0

Blogs, Wikis, Social Q&A, Podcasting

Social Networks Twitter, Facebook, Myspace, Diaspora LibraryThing, Second Life

Widgets, Web APIs, RSS

Available Technology

Web 3.0 (Semantic Web)

Machine Readable Linked Data Machine Metadata RDF, OWL, RDA, XML

Digital Libraries Fedora, Greenstone, DSpace

FOAF, SIMILE, NextBio, OpenPSI

Available Technology

Electronics

E-Readers, 3D Displays, iPods, Netbooks, iPads, Augmented Reality

Mobile Devices Smartphones, Tablets, PDAs QR Codes Near Field Communication SMS

Library Specific

AquaBrowser & BiblioCommons QuestionPoint Mosio's Text-a-Librarian LibraryH3lp LibGuides **NetLibrary & OverDrive Digital Library Systems**

Three Technologies in Libraries

The Story of Edgar Sawtelle

She turned and gestured in the direction of the sit-down counter. There, on one of the stools, sat Captain's owner, drinking a cup of coffee and reading the Sentinel. Edgar's grandfather invited the man to join them. When they were seated, he asked Billy if the pups were indeed his. "Some of them," Billy said. "Cappy got old Violet in a fix. I've got to find a place for half the litter. But what I really think I'll do is keep 'em. Cap dotes on 'em, and ever since my Scout ran off last summer Twe only had the one dog. He gets lonely." Edgar's grandfather explained about his

own litter, and about Vi, expanding on her qualities, and then he offered to trade a pup for a pup. He told Billy he could have the pick of Vi's litter, and furthermore

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QR Codes



Social Library



e-Books & e-Readers

QR (Quick Response) **Codes**

QR Codes are used to reach mobile users

- QR codes are used to:
 - Link to the library on social networks
 - Twitter, Facebook
 - Link to Library Systems
 - Library Catalog
 - Research or Pathfinder Guides
 - Stack Description
 - Downloadable Content
 - Provide instant text information
 - Initiate SMS reference service

Libraries using QR Codes

Sacramento Public Library

When the QR code on the library's blog is scanned, the user receives text message chat info

Boise State University's Albertsons Library

Uses QR codes on their blog and Twitter to direct users to their mobile website

Libraries using QR Codes

Bath University Library

QR codes in catalog records supplies users with basic information such as location and call number Lafayette College Library

Utilizes QR Code-Clues in a interactive library mystery game for first year student library orientation

e-Books & e-Readers

e-Books

Systems Google eBookstore, OverDrive, NetLibrary, ebrary, Amazon

Standards

EPUB, ADE, Mobipocket, PDF, Kindle, OCF e-Readers Kindles, Kobo, Sony Reader, Nook, iPad, iRiver Story, ETI-2,

Countless other generic ereaders

Libraries Loaning e-Readers

Irvin L Young Memorial Library

Kindle, Nooks & Sony e-Readers

e-Books are supplied through OverDrive

North Vancouver City Library

Kobo, Kindle, & Sony e-Readers

e-Readers are preloaded with selected titles from OverDrive

Libraries Loaning e-Readers

Oklahoma State University Library

Laptops & iPads available

NetLibrary used for e-Books

Social Layers for Libraries

Networks Facebook, Myspace, LinkedIn

Blogs Wordpress, Blogger, Twitter

Sharing Delicious, StumbleUpon, Flickr, YouTube

Reading LibraryThing, Goodreads

Libraries Using Social Networks

National Library of Scotland



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National Library of Scotland

Government Organization · Edinburgh, United Kingdom



Wall

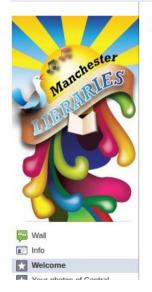


National Library of Scotland Calling all teachers, students and lifelong learn Learning Zone just for you so come discover, http://www.nls.uk/learning-zone

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Manchester Library and Information Services



Manchester Library & Information Service



Libraries Using Social Networks



Share what technology is new in your library

Adoption & Implementation

Five Step Plan

What need does 'it' fulfill Why can't you live without 'it' Who can we use as a guinea pig to test 'it' How will you make sure 'it' is used Where does 'it' fall into your future plans

Avoid Speed Bumps

Let staff know early

Explain how it fits with mission of the library

Get staff involved

Train them well

Set them free

It's About People

Technology change and innovation is about people and not the technology itself

The library exists to serve patrons, not technology or information

The adaption of a new technology needs to be a benefit to patrons and/or staff

Associated Risk

Added Expense

Investment of time and effort

Early adoption usually means "going alone"

Risk of poor acceptance or obsoletism

Additional Training

Added responsibility to overworked librarians

Share how the new technology was adopted and implemented in your library

Surprises & Challenges

Happy Surprises

Successful Implementation Wide adoption & acceptance Successful & Limited Training Easy Implementation **Ready Support and Resources** Matches Need or Expectation **Everyone Loves 'It'** Turns out as planned

Success of e-Readers

e-Books & e-Readers have met success in several pilot trials and projects

e-Readers when tested with library patrons (especially among students) has been well received

Students valued:

Portability

Ease of annotation

Quantity of e-books on a single unit

Allows libraries to focus on space for students instead of space for books

Success of e-Readers

Cushing Academy replaced their entire print collection with iRiver Story and Kindles

Freed more library study space for the students

Pilot at Llyod Sealy Library resulted in students enthusiastically interested in purchasing personal e-Readers

Students enjoyed the portability & capacity of the e-Reader

Success with QR Codes

A 2009 study showed 51.2% of undergraduate students owned an Internet-capable handheld device

Major corporations are utilizing QRs Ralph Lauren Calvin Klein

22% of Fortune 50 companies use QR codes

QR Code Success

Reasons for QR Code Success

- Easy to implement with multiple venues
- Integrable with current systems or communication methods
- Broad impact with limited expense
- Multi-use
 - Text-based Information
 - URLs
 - ° SMS
 - Phone Number

Success with Social Networks

Trinity College of Music's Library reported in December 2009

125 fans with 50% in an age range of 18-24

Walla Walla University Library reported April 2011

147 Likes with 38,686page views 54%were in the 18-24 age range

Further Surveys and Results from Facebook and Other Social Networks indicate that younger generations (typically 18-30) are the majority involved in Social Networking

Making Social Networks and Social Layers part of the Library is important in reaching these users

Social Networks

Web 2.0 technologies broke traditional static Web 1.0 barriers

Social Networks generally have low cost implementation and facility asynchronous communication between libraries and their patrons

Librarians should meet their patrons in format and technology currently being used

Venue for outreach and marketing

Expandability and integration into current systems

Provides statistics and analytics

Promotes current and continual updates

Boldly Stepping Forward

"The road is bumpy or completely wrong altogether" We learn from our mistakes and failures (At least I hope we can)

Unforeseen Challenges

Extra Expense Extra Time Extended training Poor adoption Fails expectation or to fulfill real need Discontinued

Failure

Rarely is failure written about in relation to technology projects

Failure does happen, but often only the successes are published

Failed "New" Technology

Flock Social Media Web Browser shut-down

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Setting	Google	Most Visited	Search Recently Closed	Southerny Head	Seport2
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	(always) free account lets	1	Sign Up!		
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Microsoft Kin had a 48 Hour Life



Failed "New" Technology

Microsoft Zune to be Discontinued



Google Dead Projects

Wave, Catalog Search, Jaiku,

Dodgeball, Notepad, Notebook,

Video, Mashup Editor,

Grand Central, Base,

Lively, Gears, Knol

Challenges of the Three

e-Readers

Early investment into an e-Reader solution may entail greater expense

Due to individual low cost of units, students were eager to purchase e-Readers themselves

e-Readers

Purchase of e-Readers in a large quantity is an expensive initial investment with significant upgrade and replacement cost

e-Materials are not really ready for the library purchase model where multiple copies of the same title are required, archived copies are retainable, and concurrent single copy sharing in a group can occur

E-Readers Other Concerns

Ownership is based on Access Rights, content not actually owned by library

Long term availability of an e-Book for a specific e-Reader

Variable standards, formats, & functions

Currently evolving technology

Libraries in Social Network

Push-back from patrons who dislike organizations which are viewed as outside their social circle

Social Networks generally conflict with the tradition of patron privacy

To initiate friending or following of patrons might seem creepy

Libraries in Social Network

Need to keep content updated and fresh

Often ad-hoc implementation occurs

Without structure, the project may die after the initiator(s) leaves

Can funnel users away from the core library system and tools

Libraries in Social Network

Often seen as just marketing tools by libraries

Yet marketing is not simply promotion but should reflect service improvement and add value

A social network user doesn't necessarily make a library user nor do they always desire overlap between social networks and libraries

Who has heard of Friendster?

Facebook is crushing out MySpace And Ping, Orkut, The Hub, ConnectU, Yahoo! Buzz

The likelihood of failure, closure, or change of social networks should not mean a spirit of non-adoption but a spirit of cautious adoption

QR Codes

Few people in the USA and Europe know what QR codes are.

Although 93% of Bath University students had the hardware only 12.6% knew what a QR Code was.

User-end data charges have limited full adoption for many

Because of ease of creation and low cost, QR codes can be overdone

QR code only information could cut out those who choose not to use them

Here to day, maybe gone tomorrow

QR (Quick Response) Code VS NFC (Near Field Communication)

Google a major push behind the wide use and acceptance of QR Codes but has decided to side with NFC

Share the unforeseen surprises and challenges of the new technology

Core Values

Traditionally librarians facility access, organization, storage and retrieval of information

Libraries have moved from collection focus to user focused

From stacks of dusty books to learning spaces

Core Values

The value of the library in society has not necessarily changed

Libraries still exist to bridge the gap between user and information, the ways of building the bridge has changed with technology

Core Values

Search engines have been recognized as the librarians biggest competitor. Search engines hardly replace a customer friendly support offered by the librarian.

Many core values remain the same but reemerge innovated through new technology.

Core Values Goals for New Technology

Service improvement should be the result

In-sync with your library's brand

Communicated and Understood by librarians

How do core values impact your adoption of new technology

Return on Investment (ROI)

What do you think of when I refer to ROI?

Have you in your library calculated the ROI when it comes to Technology?

ROI

Library Technology Budgets are caught between business and individual fashion investment

The return on cost of technology maybe no more measurable than simply staying current with the Digital Age

Continual participation in the interlocking web of information is a requirement



Libraries often do not perform rigorous analyses to justify purchases

There is often the assumption that libraries cannot calculate ROI because services are intangible

This is a shame, since technology has helped libraries achieve impressive efficiencies



Jakob Nielsen refers to the Social Return on Investment (SROI), derived from the business model.

SROI attempts to measure the impact that an organization has on society rather than the impact that the organization's activities have on its own bottom line.

Social Return on Investment (SROI)

What is your society?

How do you want to impact your society?

How can you measure your new technology's impact on your society?