Blurring the boundaries between our physical and electronic libraries

Handheld Librarian Conference
Andrew Walsh, 2010
The next 20 minutes

- Why ‘blur the boundaries’
- Locating technologies
- ‘Smarter’ objects
- RFID for more than just circulation
Why? A little bit of magic

Click to edit Master text styles
Second level
Third level
Fourth level
Fifth level

http://www.flickr.com/photos/7933170@N03/2631820657/ - by photographer padawan *(xava du).

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Why? To keep our physical libraries…

Are we becoming glorified computer labs and meeting places?

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Quick poll!

Do you think your physical library directly impacts on student achievement?

YES/NO
Why? To keep our physical libraries…

Library Usage v Final Award – All Honours Courses

- Library Visits
- Books Borrowed
- MetaLib Logins

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What is the physical library for?

http://www.flickr.com/photos/michaelsphotos/430442919/ - mstephens7

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Personalising the library environment

Typical ‘mobile friendly’ library services

Podcasts; SMS services; Mobile friendly web pages

What about the user moving through the library?

Annotating the physical resources;

Augmenting the physical reality;

And more….

Photo from http://www.flickr.com/photos/przemion/296458630/ - przemion

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Locating technologies

- GPS
- WIFI / Bluetooth / Active RFID Triangulation

“...in large indoor environments such as libraries ... location awareness can become a crucial determinant of superior quality of service, deriving from the ability to locate the co-ordinates of a person or an object with reasonable accuracy at all time, and this provide spatially-aware services.”

A few examples...

Erewhon (Oxford)

Image from http://mobileoxford.posterous.com/

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A few examples…

Technology enabled campus (Durham)

Image from http://tel1.dur.ac.uk/wiki/doku.php

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A few examples…

- SmartLibrary
  Oulu University Library

Image is desktop screenshot from Smartlibrary service…
A quick poll…

Has anyone used these locating technologies within their own libraries?

If so, which?

1) GPS
2) WIFI mapping
3) Bluetooth
4) Something else…
‘Smarter’ objects?

- QR codes and similar
- RFID tags
QR codes

Virtual shelf image:

Useful links:
- Amazon UK: [link](http://www.amazon.co.uk)
- Google Scholar: [link](https://scholar.google.co.uk)
- Add cite: [link](http://www.addcite.com)
- QR Code: [link](http://www.qrcode.com)

Search terms:
- communication
- conference
- devices
- Wi-Fi
- rfid

University of Huddersfield

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QR codes

I'm also available electronically —

http://englishlegal.notlong.com

What's the strange picture for?

It's a QR code. QR-code readers can be downloaded free for most camera phones, from the internet (just Google QR reader and the model of your phone). They then translate a QR code image into something — in this case go to a webpage containing the full text of the book.
QR codes
Awareness of QR codes

• Before we started – 8% recognised a QR code

• After a full academic term – 22% recognised one. (but another 11% volunteered they were familiar...)
RFID Tags

In our library, they're in:

• Every book
• Every DVD / Video
• In fact, almost all stock
• AND - every library card

But all we use them for is stock control and print credit.

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RFID tags

Could be used for....

• Book recommendations
• Comments on books
• Recommend this book to others
• Personalised help
• Social Networking
• Directed messages from the University

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Summary

So how can we bring that little bit of magic into the library?
• Could use software on handheld devices to locate users.
• Could use QR codes, or RFID tags to interact with users as they move around.

“Research which sought to make full use of all cell phone hardware and software capabilities in tandem would be creating a service which did not have a true analog in the physical library ... The development of such a platform provides the library with a way to be an instrumental part of the students' life.”