Barcoding the Bodleian

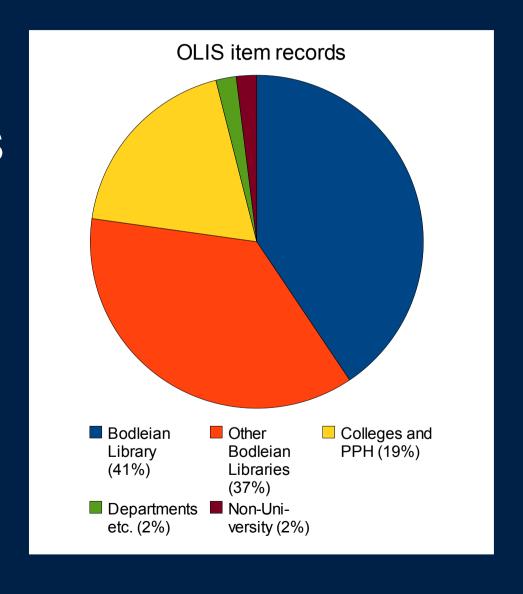
ICT Forum Conference 2010

Katherine Ferguson

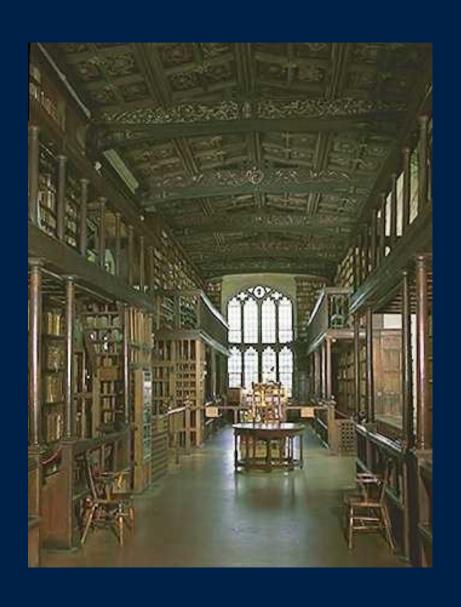
SERS, Bodleian Libraries, University of Oxford katherine.ferguson@bodleian.ox.ac.uk

Libraries in Oxford

- About 100 University and related libraries contribute to the OLIS catalogue
- By far the largest is the Bodleian Library
 - About 4.5 million items on OLIS
 - Also many items not on OLIS!



Bodleian Library



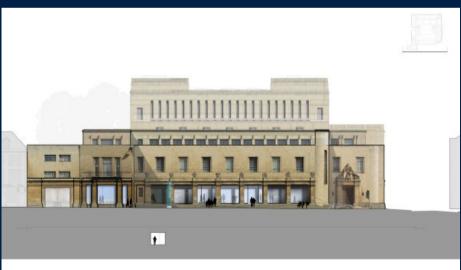
- Formally opened 1602
- Legal Deposit library
 - (1/6 in UK & Ireland)
 - Agreement with Stationers' Company 1610
 - Receives about 75k monographs and 120k serials issues per year

Lack of space

- LD intake requires about an additional three miles of shelving every year. Not counting purchased material. Keep running out of space!
- Underground Bookstore 1912
- New Bodleian 1940
- Nuneham Courtenay 1975
- DeepStore (Cheshire saltmine) 2006
- Book Storage Facility near Swindon 2010

New Bodleian





- Remodelling of the New Bodleian as a Special Collections library
- 2010-2015
- Will be renamed "Weston Library"
- Much reduced stack space, but much improved conditions

Book Storage Facility

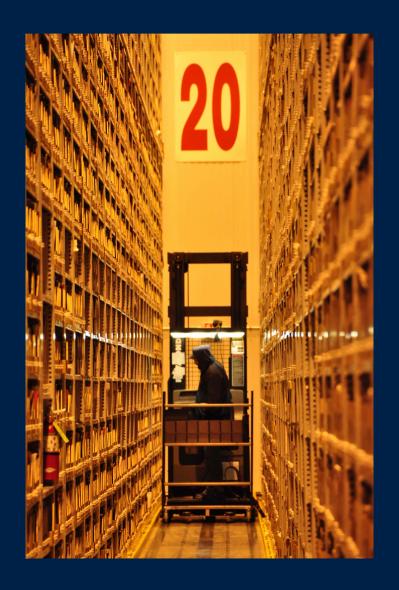




- 15-acre site in South Marston, close to Swindon
- storage for up to 8 million "low-use" items
- expect twice-daily deliveries to Oxford

Book Storage Facility ctd

- 10m high shelving
- Books in "trays"
- Staff on forklift trucks / cherry pickers
- Similar to BSFs used by North American universities
 - Photo is of ReCAP at Princeton



Book Storage Facility Information System

- BSFIS will track which items are in which trays on which shelves
- Shelves will have barcodes...
- ... trays will have barcodes...
- ... and of course the books already have barcodes, don't they???
 - Oops!

Wanted: barcodes

- Other OLIS libraries have barcoded material since the late 1980s
 - Barcode number is the unique record key on OLIS
- Bodleian only started adding these to all incoming material in 2009
 - 400 year backlog!
 - Although the oldest material won't be going to the BSF and won't need barcoding
 - Although shelfmark barcodes have been added to new monographs since the late 1980s

Barcoding Project - aim

- Add OLIS barcodes to all the items that will be stored in the BSF, before they need to be ingested into the BSF
 - All of the central Bodleian Bookstack by end of July 2011
 - The rest by end of December 2011 (including Nuneham and DeepStore)
- Project planning started in late 2009 and barcoding started in March 2010

Barcoding Project - logistics

- About 6.5 million items in scope (monographs + periodicals)
 - About 192km or 120 miles of shelving
- 50-60 FTEs employed on the project
 - including agency staff drawn from a pool of 200 part-timers
- Estimated cost is in excess of £2 million
- Barcoding must be done at the shelves inefficient to move the books at this stage

Hardware

- Programmable data collection devices?
 - Expensive
 - Negligible current in-house experience for development and support
- Netbooks + conventional barcode scanners?
 - Cheap
 - Already widely used; easier dev and support
 - But bulky and awkward to use in confined spaces
- Decision: netbooks

Networking

- Essentially no network in stacks
- Add wireless network to stacks?
 - building and shelving structures incompatible with efficient wireless
- So need to work offline



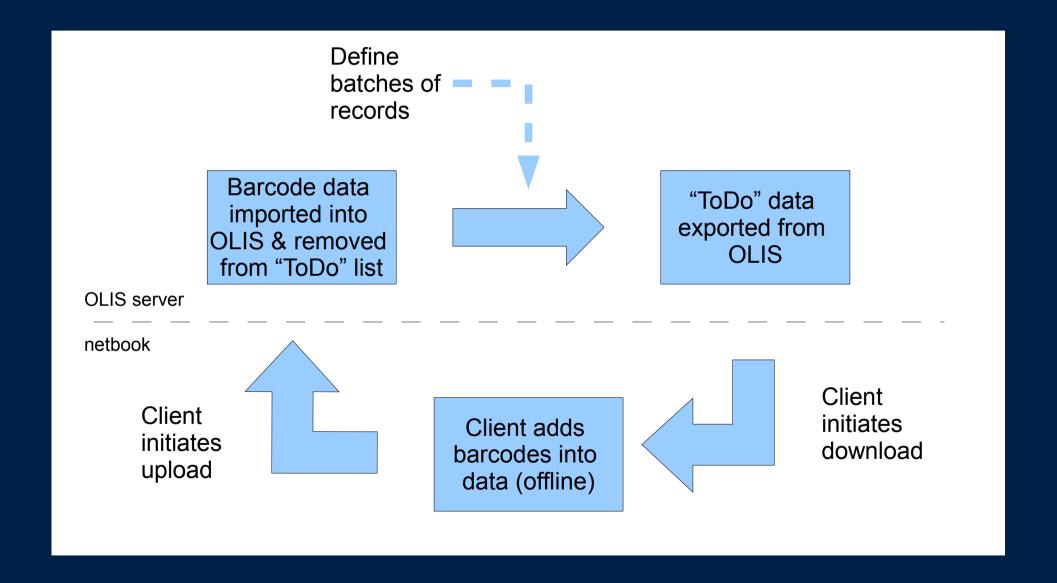
Monograph data

- Assumption: already have unique item record on OLIS for each monograph
 - Not strictly true :-()
- Want to stick barcode onto book and record that number into the correct catalogue record
 - quickly
 - safely
 - offline

"ReBar" Software

- Adapted our CroBar client software (already used by Bodleian Copyright Receipt Office)
 - Enables CRO staff to efficiently scan ISBN and OLIS barcode pairs to automate recording the arrival of new Legal Deposit material (and simultaneously barcode it)
- .NET client-side GUI
- FTP
- Server-side scripting

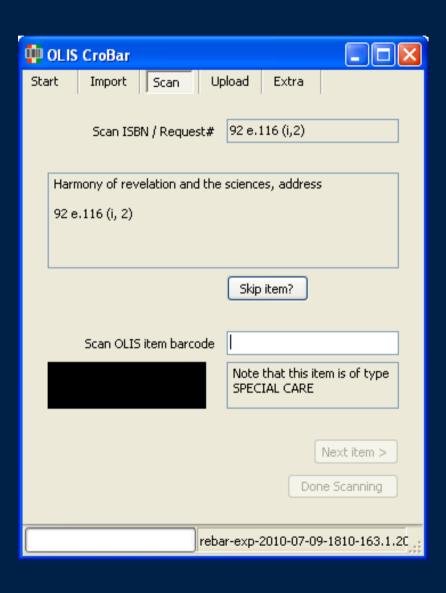
Processing cycle



Server-side

- Download file is SQLite database
 - single .db file but full database functionality
- Perl is the driving force and glue
- Expect (over tcl) imports the data into OLIS
 - OLIS currently has a character-based staff UI
 - Risk: don't yet know how this can be accomplished on the new ILS (expected go-live Jul 2011)
- OLIS db native code (TCL, UniVerse BASIC, etc.) used for export

Client-side



- "Wizard" workflow
- Different modes for different types of shelfmark
 - Scan shelfmark barcode
 - AutoNext prediction
- On-screen flagging for special cases

Monographs progress

- 1 million mark hit last week about 15k per day
- More haste less speed?
 - QA issues barcoded blocks of wood!
- Side-effects
 - First modern large scale stock check of Bodleian
 - Highlighting need for retrocon and remedial cataloguing
- Ongoing development scope creep hard to plan

Serials data

- Most serials are now being checked in on OLIS
 - As each individual issue arrives it is represented by an item record on OLIS
- But most Bodleian serials do not have individual item records for older issues
 - There may be a single item record representing a range of thousands of physical items
- Ideally lots of cataloguing would be done before barcoding started – but no time or resources

Serials workflow

- Should be starting this week!
- Using netbooks and Excel (with VBA)
 - Time pressures did not allow the rewriting of Excel prototype :-(
- Much more complex than monographs
 - Far less automated
 - Much of the server-side processing requires human intervention

Questions?

Brief project updates are published at http://www.bodleian.ox.ac.uk/about/projects