Digital Library Activities at Oxford



Michael Popham http://www.odl.ox.ac.uk/



Libraries at Oxford

- Oxford University Library Services (OULS) established in 2000
 - Now c.40 major University libraries; excludes Colleges
- ODL arose as the result of a scoping study 1998-99 funded by the Andrew W Mellon Foundation
- Proposal for the establishment of the Oxford Digital Library
 - \$775K from Mellon (2001-04)
 - £3.1M from OULS Capital Campaign (2003-08)



Goals during the establishment phase

- "Conversion of the former Bodleian Photographic Studio into a selffunding, on-demand digitization service with an OULS-wide remit."
- "A major new line of library support for the teaching and research activities of the University."
- "A significant production stream of digitized material, based on Oxford holdings, for subsequent re-use in the ODL and in a variety of developmental contexts of local and general benefit."
- See http://www.bodley.ox.ac.uk/librarian/visionplus/vision2008.htm



Who and Where?

- Osney Mead (c.10 full-time)
 - Administration, metadata and technical specialists
 - Full-text capture (e.g. EEBO-TCP)
- New Bodleian library (16-20 full-/part-time)
 - Imaging Service (digital and analogue)
 - Studio, picture research



Services

- Provide a framework for the creation and management of digital resources
- Digital resource creation
 - on a cost-recovery basis; in-house /out-sourced
- Advice across OULS
- Research and development, proof-of-concept
- Management of digital assets throughout their life-cycle



Activities

- Oxford Digital Library Development Fund
 - Majority of the \$775K from Andrew W Mellon Foundation
- Legacy data
 - Early MSS at Oxford, ILEJ, Toyota Imaging ...
- External partnerships etc.
 - EEBO-TCP (University of Michigan, ProQuest)
 - PARADIGM, MAT (JISC funded)
- Broadening access
 - ODL/OULS/Oxford websites, RLG-CM ...



ODL Development Fund

- Creating content for the ODL
 - Librarian-academic partnership
- Exploring different data types for the ODL
 - Images, full-text, others...
 - Standards and technologies
- Scholarly resources for use in teaching and research – at Oxford and elsewhere



ODL DF

- Editorial Board
 - Chair: Professor Kathryn Sutherland (St Anne's)
 - Local and national representation
 - Academics and librarians
- Three Funding Rounds
 - May 2002, May 2003, March 2004
- Total allocation to projects = £264,726
 - http://www.odl.ox.ac.uk/collections/



Round One (May '02)

- 1. John Johnson Collection: C18th Entertainment Ephemera
- 2. Prints from the Curzon Collection
- 3. ODL for Forestry (demonstration project)
- 4. Flora Graeca 2000 (demonstration project)
- 5. Full text recognition of Bodleian Broadside Ballads (demonstration project)
- 6. Key C17th, C18th, and early C19th geological literature
- 7. Cobbett's Parliamentary History

Total commitment =£79,396

An affecting and sublime! scene, or, : The great captain going to head his armies





Round Two (May '03)

- 1. Seeing is believing...
- 2. ODL for Forestry: Stage 2
- 3. Flora Graeca in the 21st Century
- 4. Publications of Obadiah Westwood
- 5. Digitization of MS SJC 17
- 6. John Gould's ornithological works
- 7. Full-text capture/OCR Study

Total commitment = £95,344

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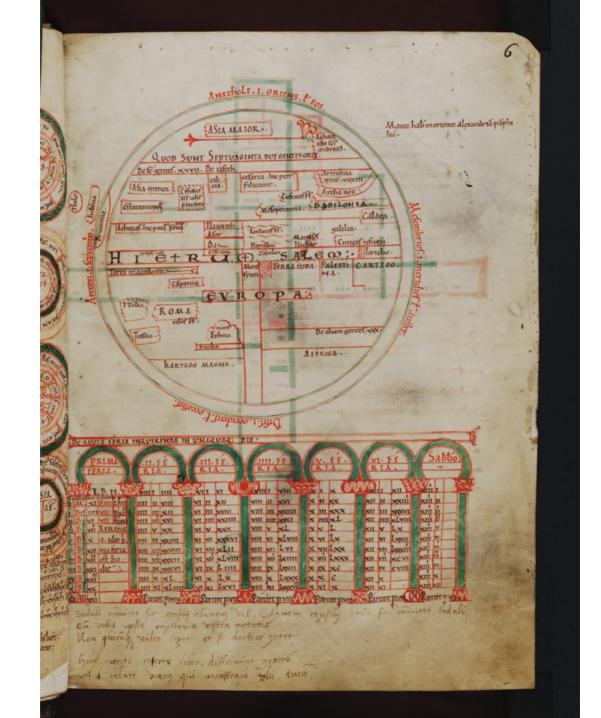
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Round Three (March '04)

- 1. Scenes from an extraordinary life (the Disraeli exhibition)
- 2. Digitization of Champollion and Rosellini
- 3. Flora Graeca in the C21st. Stage 3
- 4. Bringing Laxton to life: a unique insight into feudal England
- 5. The Gough Map gateway to medieval Britain
- 6. Maps on the Web placing the Bodleian's existing collection of cartographic slides and filmstrips on the Library website
- 7. Prints from the Curzon
- 8. Arthur Evans archive (Knossos excavations)
- 9. Writing Blanks, Board Games, and other Educational Games...John Johnson and Harding Collections

Total commitment = £89,986



General lessons learned

- Clear ToR for the Editorial Board
- Need robust agreements with project partners
- Schedule reviews of procedures and policies, and make revisions periodically rather than progressively
- Be prepared to commission more projects
- Better management of internal publicity and communications
- "Accentuate the positive" vs "Learning from our mistakes"



Specific lessons learned

- Lack of good metrics for costing and monitoring digitization projects
- Selection can be difficult, time-consuming, and expensive
- Metadata most of our librarian partners still don't really get it
- Partners don't seem to have appreciated the likely ongoing effort required to maintain and update online resources



Life after the Development Fund

- Concentration on bringing legacy collections into the new ODL framework
- Changing financial situation
- Need to reassert and re-sell the strategic role of the ODL
- Oxford-Google digitization partnership



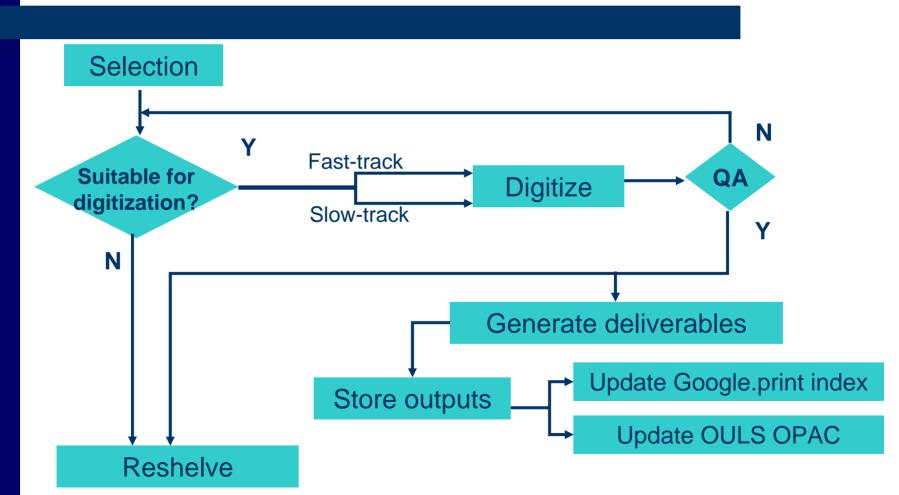


Oxford-Google: what to digitize?

- Direct discussions with Google since 2003
- Win/win situation for both parties
- Extensive collection of out-of-copyright (and mostly out-of-print) material identified
 - Oxford differs from other partners in this aspect of our agreement
 - Decision made to begin with the 19th century material
 - Looking at approximately 1+ million items



Overview of workflow





Approach

- OULS staff will work closely with Google staff e.g. training on how to handle the material
- Each component of the workflow must be comfortable for both parties
- A large complex logistic operation that will not compromise the service to our users



Outputs and outcomes

- Large raw colour images from digitization process
- Per volume, OULS receives:
 - JPEG2000 (probably), and TIFFs
 - Uncorrected OCR
- Audit of production process
- There are quality control processes at Google & Oxford
- Deliverable images (to be hosted by Google in the first instance) linked to OPAC records
- Ongoing software/hardware developments to improve the process



Challenges that lie ahead...

- Building the local infrastructure to manage and deliver the Oxford Digital Copy of the data
- Investigating ways to exploit the data, e.g.:
 - Correcting OCR files, adding additional markup
 - (Re-)structuring the data moving beyond a simple search and page-turning presentation
 - Completing/extending volumes and collections
 - Automatic collation, authorship attribution, plagiarism detection etc....and many, many more(?!)
- Raising the barrier of what is possible, and end-users' expectations about what we can deliver



Useful links

- http://www.bodley.ox.ac.uk/google/
- http://print.google.com/googleprint/library.html