Practical exercises/discussion/closing remarks

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1. What is all this digitisation about and which objects should be digitised?

- a. Think about what will be digitised
 - i. Check the IPR issues related with the digitised material
- b. Think about who, when and where will do it
- c. Think about the costs of
 - i. Creation of basic infrastructure (like DL software and hardware, scanners, computers for digital librarians etc.)
 - ii. Digitisation
 - 1. To outsource or not to outsource
 - iii. Long term activity of your digital library
 - 1. Costs related with the server being on-line
 - 2. Technical support
 - 3. Software and hardware updates
- d. Think about how to do it (see point 2)

2. How to digitize objects?

- a. Remember about things mentioned in point 8
- b. Check if national/institutional digitization strategy exists
 - i. If such a document is available, consider how it can reused in your project (requirements and guidelines).
- c. Check available equipment and its capabilities
 - i. IT infrastructure storage space, intranet capacity
 - ii. Scanners/cameras
- d. Think what is important for future users?
 - i. Full-text search? (in case of text resources)
 - 1. Master copy
 - a. PDF/A or TIFF (LZW compression) for digital master copy
 - b. Results of OCR can be stored as XML next to TIFF files

- 2. Web delivery
 - a. Remember that:
 - i. DJVU is not suitable for storing master copy
 - ii. DJVU is not indexed by Google
 - b. PDF should have reasonable size
 - i. i.e. consider dividing a book into chapters
- 3. Choosing OCR engine
 - a. Take into account availability of qualified IT stuff
 - Open Source tools like Tesseract/OCRpus may require some IT knowledge to be used
 - b. Usually commercial OCR engines provides a trial/demo version, it is reasonable to check how given OCR performs with digitized resource before buying a license.
- ii. No text only images
 - 1. Choose the simplest solution:
 - a. TIFF (LZW compression) for a master copy
 - b. JPEG for web delivery
- e. Store master copies on DVDs (and on a file server)
- f. Write down a set of necessary guidelines, requirements and procedures. Discuss this with the rest of project staff, make them available for everyone who is involved.
 - i. Quality requirements (resolution, colour depth, file format etc.)
 - 1. digital master copies
 - 2. web delivery version of object
 - 3. other derivatives
 - ii. Most important procedures
 - 1. How to deal with scanned objects.
 - 2. Which equipment should be used for scanning particular items.
- g. When project staff is distributed consider a few additional solutions

- i. Consider creation of a file server
 - 1. Everyone can connect to server
 - 2. This would simplify file sharing
- ii. Consider coordination using shared internet document
 - **1.** e.g. use <u>http://docs.google.com</u>
- iii. Evaluate established procedure and guidelines after some time in terms of digitisation performance and end-user experience
 - 1. Try to find things which might be improved,
 - **2.** Refine your project guidelines.

3. How to describe digital objects?

- a. Choose your metadata schema
 - i. Start with DC Simple (15 elements)
 - ii. Check DC Terms
 - iii. Check if there is anything else you want to add
 - 1. If yes, prepare mapping of these new elements to DC elements
 - iv. Prepare the manual for the creation of metadata
 - 1. Try to use existing guidelines
 - 2. Try to be compatible with standards
 - 3. Try to find some useful dictionaries to use
 - 4. If possible (and makes sense) think about importing the existing metadata
- b. Prepare the structure of on-line collections
- c. Think how your digital objects will be used
 - i. How do you want to publish it in the Internet
 - 1. File format, user interface possibilities
 - ii. Prepare the license information for end-users

4. How to create a digital repository?

- a. Choose software
- b. Install software, play with it, do some tests on your resources and metadata
 - i. You can use Live CDs, pendrive editions etc.
- c. Choose hardware for DL server
- d. Install the software on the DL server

- e. Configure it and adapt for your needs and assumptions
 - i. Remember about the usability and accessibility (see point 9)
- f. Start publishing your digital objects
- 5. How objects and metadata from digital repositories can be reused?
 - a. Check OAI-PMH interface correctness using OAI-PMH repository explorer
 - i. <u>http://re.cs.uct.ac.za/</u>
 - b. Register repository to OAI archives website
 - i. <u>http://www.openarchives.org/Register/ValidateSite</u>
 - c. Make content of your repository available for suitable aggregator
 - i. i.e. OAIster, ScientificCommons, DART-Europe etc.
 - d. Consider creation of digital library blog
 - i. Described selected items in more details show users what can be found in your repository

6. How to (and why) prepare a repository for Europeana?

- a. Find a suitable national or vertical aggregator who may help you to join Europeana
- b. Check aggregator's requirements in terms of metadata
 - i. You may have to prepare mapping rules from your metadata standard to ESE or other format used by aggregator (i.e. Athena – museums will use LIDO)
 - 1. Remember about Europeana Metadata Mapping and Normalization Guide
 - ii. In some cases aggregator may prepare metadata for Europeana without your help.
- c. Join EuropeanaLocal technical support forum
 - i. <u>http://europeanalocal.avinet.no/</u>

7. How to set up a metadata aggregator? – introduction + practical exercises

- a. Before you start check existing aggregators
 - i. If there is no national aggregator for you, consider joining vertical/thematic aggregator like Athena, Europeana Film Gateway, APEnet, more at <u>http://group.europeana.eu/</u>

- b. Setting up metadata aggregator may require some technical skills
- c. Choose tools which fits into your infrastructure (e.g. consider underlying technology)
- d. Join EuropeanaLocal technical support forum
 - i. <u>http://europeanalocal.avinet.no/</u>
- e. Define rules for repositories which may want to join your aggregator
 - i. OAI-PMH compliance
 - ii. Only mature repositories will be aggregated
 - 1. existing domain address, no ports like 8080

8. Should I know something more about digital preservation?

- a. Use simple, well established open standards
- b. Track findings of projects like Digital Preservation Europe
- c. Check out DRAMBORA repository audit framework
 i. <u>http://www.repositoryaudit.eu/</u>

9. Why to evaluate accessibility and usability of digital libraries?

- a. Compare interfaces of other digital libraries
- b. Make yours the best one
- c. Test it (with hallway testing for example)
- d. Monitor its use (Google Analytics)