







- Traditional objects are generally quite robust
- They are tangible, we can hold them in our hands
- Are generally independently understandable (if you speak the language they are written in....)
- We are quite experienced in understanding their worth and assigning value to such objects

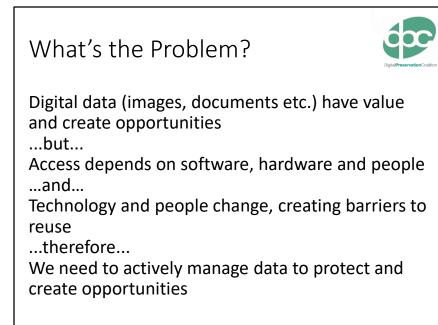
Digital Information



- Ephemeral
 - Proliferation
 - Rights
 - Privacy
- Need tech to interpret
- Obsolescence
 - Media
 - Formats
 - Software/Hardware
 - Documentation
- New skills and solutions
- How to estimate value?
- But also new opportunities!



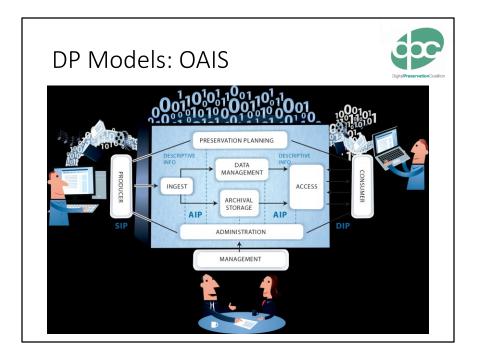
- Digital objects are ephemeral by their very nature
- They very susceptible to obsolescence as they are entirely dependent on the media they are stored on, the accessibility of their file format and often require documentation to use and understand them
- Managing issues such as rights can also be much more difficult, from protecting copyright to ensuring personal data is protected
- They require us to gain new skills to care for them, or for us to work with new groups of colleagues with different skills groups (particularly IT specialists)
- But they do also bring a whole host of new benefits, in particular the ability to make content accessible to users.





- Legal and Regulatory Compliance
- Increased Efficiency
- New Revenue Streams
- Improving Health
- Protecting the Environment
- Enabling Research
- Documenting Cultural Heritage
- Ensuring Transparency and Accounta



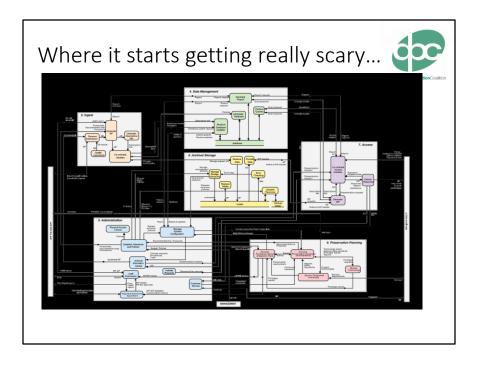


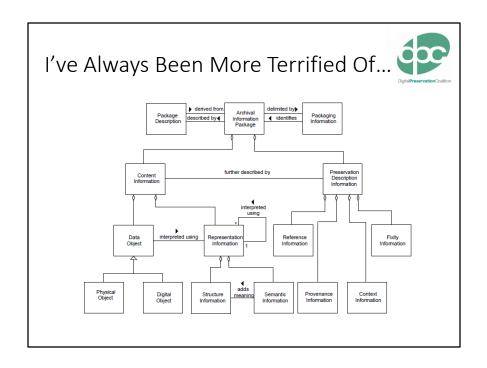
While it is far from perfect the Open Archival Information System model is one of the keystones of Digital Preservation. In particular it provides much of the terminology used within the field. This diagram represents it's functional model at the highest level. As well as the key functions of an OAIS that it shows (such as Ingest, Preservation and Access) it also includes various information packages. These information packages contain the digital material to be preserved along with its accompanying metadata and within OAIS these exist in 3 different forms across the lifecycle:

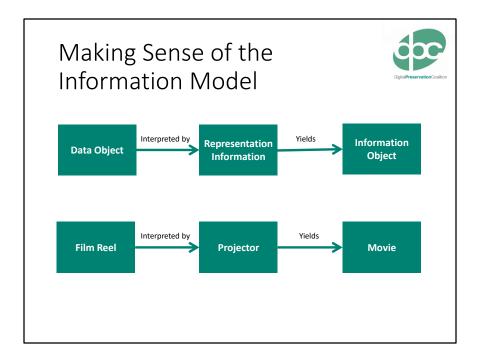
- 1. The Submission Information Package
- 2. The Archive Information Package
- 3. The Dissemination Information Package

To accompany this functional model the OAIS also describes an information model that lays out what types of metadata (specifically called Representation Information in OAIS) should be included in the information packages to facilitate preservation.

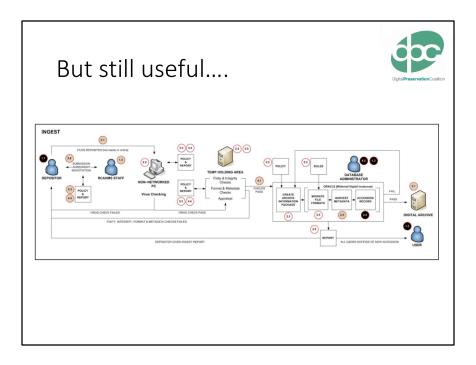
Full OAIS Standard: https://public.ccsds.org/pubs/650x0m2.pdf Brian Lavoie's Tech Watch Report on OAIS: http://dx.doi.org/10.7207/twr14-02



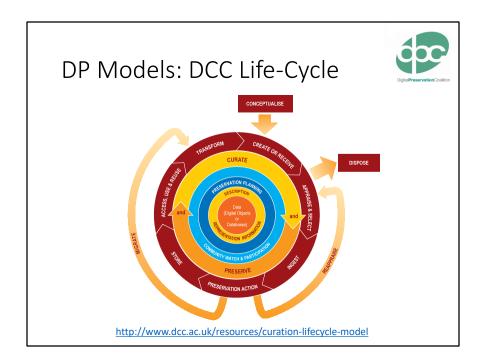


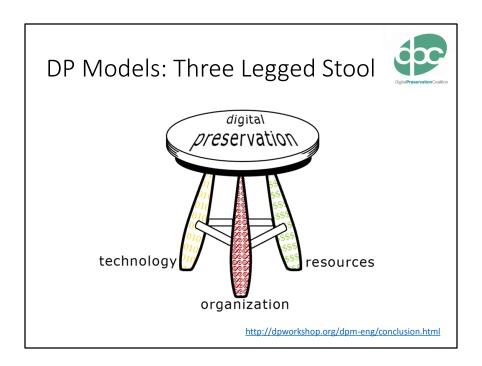


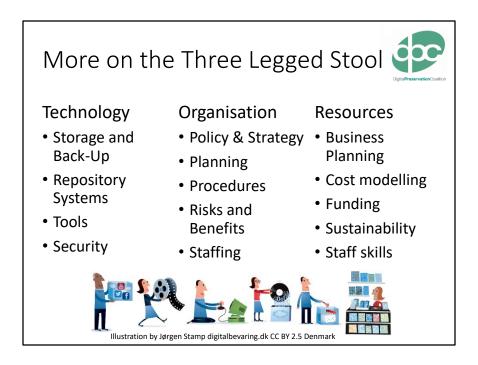
Representation information is perhaps the most difficult part of the information model to grasp. It can be useful to consider in relation an object like a reel of film. To show this onscreen a film projector is required. The projector fulfilling the role of the representation information. In the digital world representation information can be anything from the file format to detailed information about the file and the software and operating system environment in which to access it (in some cases perhaps even the software itself).

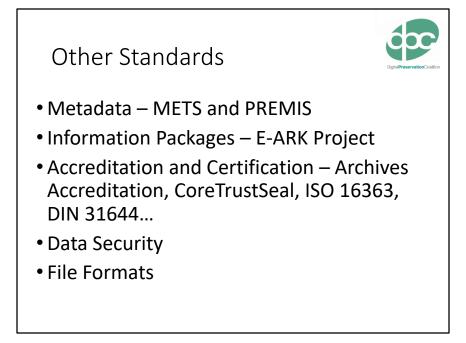


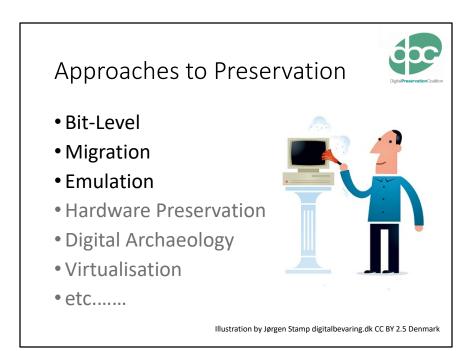
This a diagram we produced at my previous place of work, the Royal Commission on the Ancient and Historical Monuments of Scotland. The aim was to start building what a digital preservation workflow might look like then carry-out a gap analysis comparing the current systems with the OAIS functional model. The black circles are people, systems or process that were in place and meeting standards, the tan circles are those which were in place but not sufficiently developed/meeting requirements and the white circles where things that did not currently exist. It provided a very useful, clear visual aid for presenting to managers as they could clearly see the large gaps in our current systems and processes.

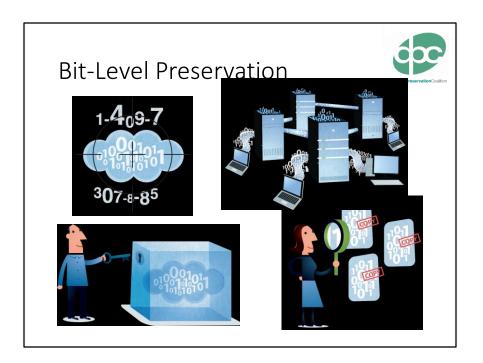


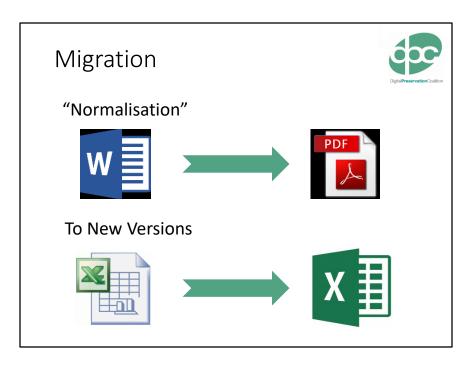




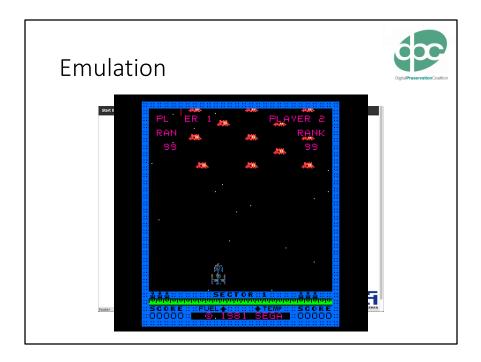








- There are two main forms of migration for digital preservation, and it is possible to use one or both.
- The first is a method often referred to as 'normalisation'. This is where all files of a particular type (for example, text documents) are 'normalised' to one file format.
- The example on the slide shows Word documents being normalised to PDF. For images this could be JPEGs and GIFs normalised to TIFFs.
- The choice of normalised files format used will depend on the needs of the organisation and its users.
- The second method involves migrating old file formats to newer versions when they are at risk of becoming obsolete.
- This could be migrating an old .xls spreadsheet to a newer .xlsx format.
- Both methods have their positives and negatives:
 - Normalisation creates homogenous, easier to manage collections and means that users need to know how to use fewer files types.
 - Migrating to new versions means that files can be accessed in current computer environments.
 - Both processes can be automated but quality control is incredibly important and careful consideration must be given to migration pathways to avoid loss of data and functionality.



- Emulation is the process of recreating the original environment in which a file was created and used via a layer of specially written software: the emulator.
- The second sec
- It is also an increasingly popular preservation method and several projects have produced emulators for everything from early browsers to old versions of PowerPoint. Many of these emulators are freely available, either online or as software downloads.
- Emulation perhaps seems like the ideal version of digital preservation as it allows users to access the files in their originally environment, providing a more authentic experience.
- It is however, very resource intensive and emulators will require updates (or their own emulators) as computer environments change.
- It can also be difficult to confirm the emulator truly captures the original environment unless there is still access to an original example to compare.



62 members

4 strategic areas

Shiny new website

- Responsive design
- Easier access to resources

Blog and Case Notes



Preservation Planning for Personal Digital Collections by Paul Wilson



A condensed version of this case note also appears in the Technology Watch Report Personal Digital Archiving by Gabriela Redwine.

Paul Witon's case note summarizes his attempts to find a suitable preservation planning process and associated documentation to apply to his perional digital collections. Since he could find no preservation planning process appropriate to individual, he obtained a side set detailing a single preservation workflow from the Digital Preservation Cabition, and used that as a foundation on which to establish an approach to the work. This general approach not accompanying documentation was tested and refined on two of his personal digital collections (one of 800 mementos and the other of 11,000 photos). Template documents were then derived from the results.

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- Download the Pail Text of Case Note
- Download the slides from Paul Wilson's Webinan 'Preservation Planning for Personal Digital Archives' (pdf)

Read more to access the Toolkit

Toolset: Preservation Planning for Personal Digital Collections

These documents comprise a Toolset derived from Paul Wilson's trials to discover a preservation planning workflow applicable to his p

Download the Full Text PDF

reservation Planning for Personal Digital Collections by Paul Wilson

Related Resources

Documents from the First Trial - PERS Collection

The following documents (suitably anonymised) were produced in the course of the first trial:



- Important part of all our events Peer to peer learning •
- •
- Planning Day •
- Counting the Bits •



Covering a wide range of digital preservation issues

- Tool demos
- Research project updates
- Case studies
- Important resources



E-ARK: http://eark-project.com/ VeraPDF: http://verapdf.org/ TIMBUS: http://timbusproject.net/ 4C: http://www.4cproject.eu/ APARSEN: http://www.alliancepermanentaccess.org/index.php/aboutaparsen/aparsen-deliverables/ SPRUCE: http://wiki.opf-labs.org/display/SPR/Home



http://www.dpconline.org/knowledge-base/tech-watch-reports



Getting Started and Making Progress: http://www.dpconline.org/events

Short videos of GS online via the Handbook: http://dpconline.org/handbook/getting-started



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