



→ Long-term archiving and preservation planning

Workflow in digital preservation

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The Challenge: Long-term Preservation
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Overview

- 1) Digital resource management
- 2) Permanent access
- 3) Implementing operations and research

Digital resource management

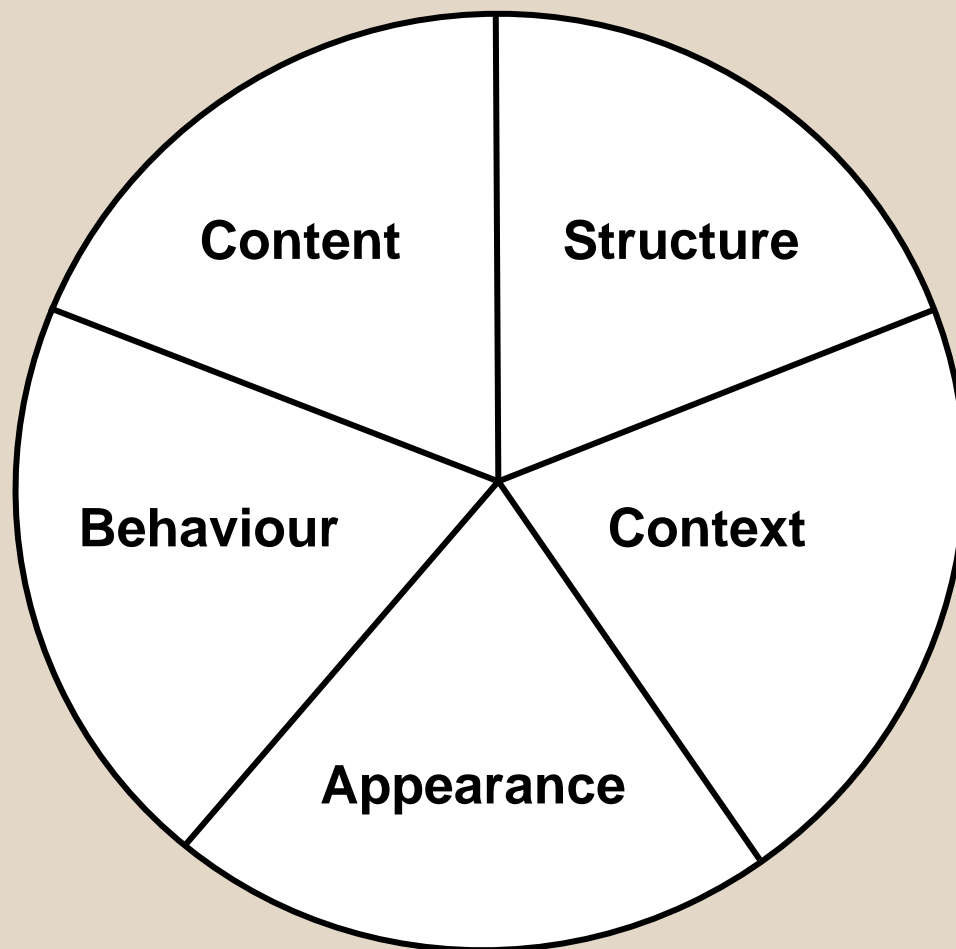
The long-term archiving process

- Acquisition & Ingest
 - Selection, obtaining
- Description
 - Bibliographical, technical, preservation metadata
 - Characterisation
- Storage
 - Refreshment of carriers, object management, data management
- Access
 - Search and retrieval, portal functionalities
 - Future access: alternative representations

Characterisation

- Preservation begins at creation
- Requirements for durable objects & guidelines for creators
 - Examples:
 - PDF guidelines
 - File format assessments
 - Preservation scanning recommendations
- File format identification and validation
 - Some tools available, more needed
 - Active developments and international collaboration
- Registration of characterisation information
- Formats and collections

Five basic aspects of a digital object:



Permanent access

Preservation Action

- What to do when obsolescence threatens?
- How can alternative representations be prepared?
- How to be prepared for a problem that isn't there yet?
- Adapt the object: migration
 - Tools available, but lack of QA
 - Limited experiences in a preservation context
- Adapt the environment: emulation
 - Emulators available for old (gaming) devices
 - Emulation for preservation in experimental phase
 - In the meantime: virtualisation

Preservation Planning

Know what you have (characterisation)



Know what you can do (preservation action)



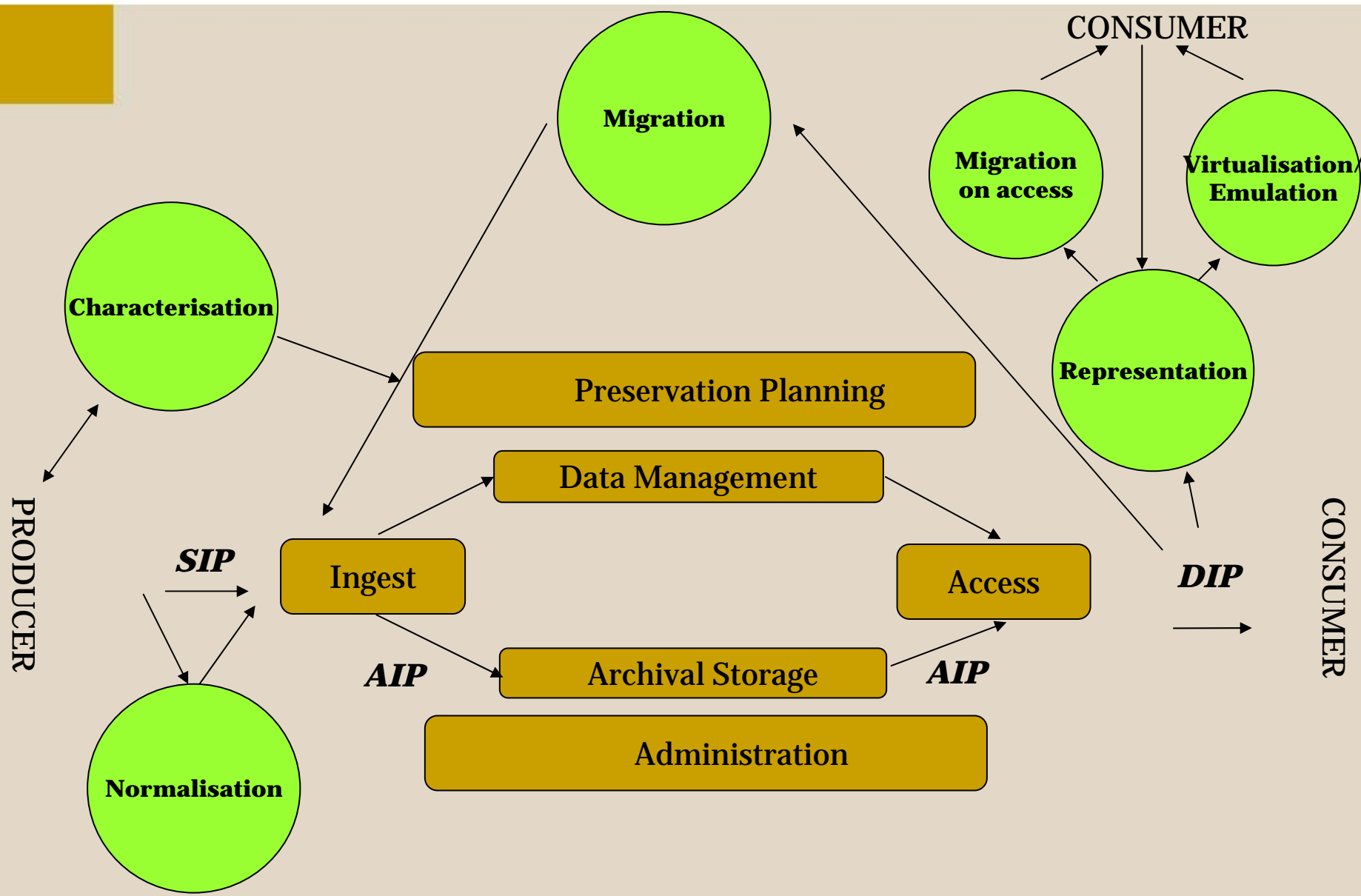
Add other criteria:

Costs, organisational policy, etc.



Make a plan

Decision support



Implementing operations and research

Digital preservation in libraries and archives (1)

- Long-term storage systems in development
 - Records management
 - Institutional repositories
 - e-Deposit
 - Webarchives
- Organisational models for projects
 - IT/Projects department handling the entire project/programme
 - Project with participants from different departments
 - Most organisations still in project phase

Digital preservation in libraries and archives (2)

- Organisational models for operational preservation systems:
 - Separate digital library department
 - Linked into traditional library organisation
- Example at the *Koninklijke Bibliotheek* (KB)
 - System in place and operational
 - Two departments: operational and research
- Shift from projects to structural activity
 - Funding problems
 - Continuous R&D required
 - Dynamic environment

International collaboration

- Strong international digital preservation community
- Standards development for digital resource management (OAIS, PREMIS)
- Certification for trusted digital repositories
- European projects: CASPAR, DPE, Planets
- Planets: Development of preservation planning module and tools that can be implemented in the digital preservation workflow



**Thank you
for your
attention**

