

Aberystwyth University

Digital Curation: New Medium, Old Methods

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Manuscripts to Metadata: the Relevance of Core Skills in the Digital Age

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Sarah Higgins

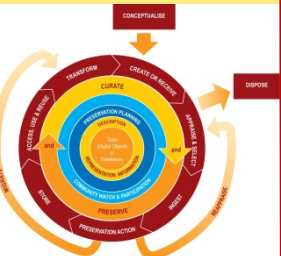
Lecturer, Aberystwyth University

Simon Wilson

Digital Archivist, University of Hull

Lisa Jeskins

Archives Hub, Mimas, University of
Manchester



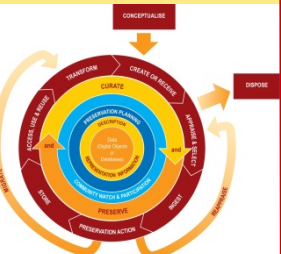


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Digital Curation: New Medium, Old Methods

Sarah Higgins

Lecturer in Archive Administration
and Records Management
Aberystwyth University

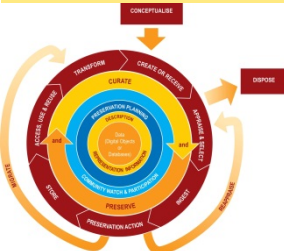
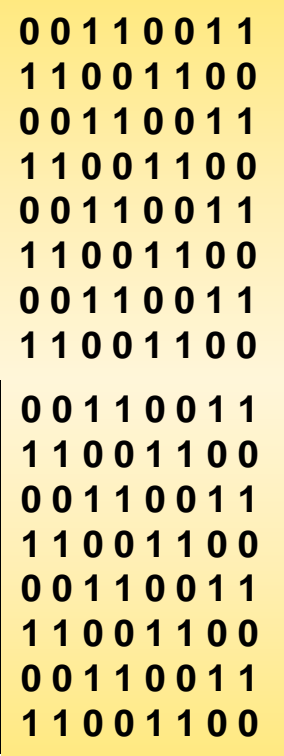


Archives and access

The imperative of an archives repository is to manage the materials in their care so that they can be:

- Identified
- Located
- Used
- Preserved

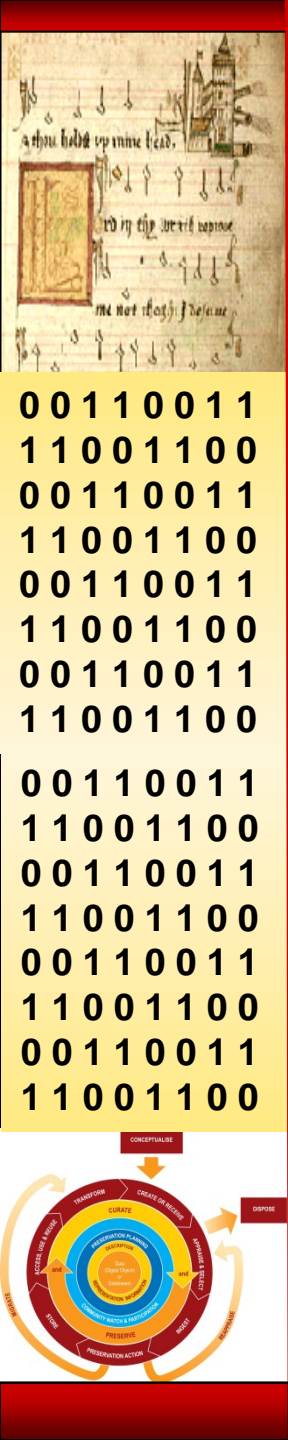
If material is not accessible then an archive is failing to fulfil a key objective.



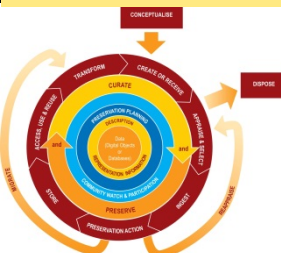
Archives and access

Retaining accessibility to information is a key objective whatever the medium:

- Stone and clay
- Paper
- Vellum
- Microfilm
- Photographic media
- Audio media
- **Digital media**

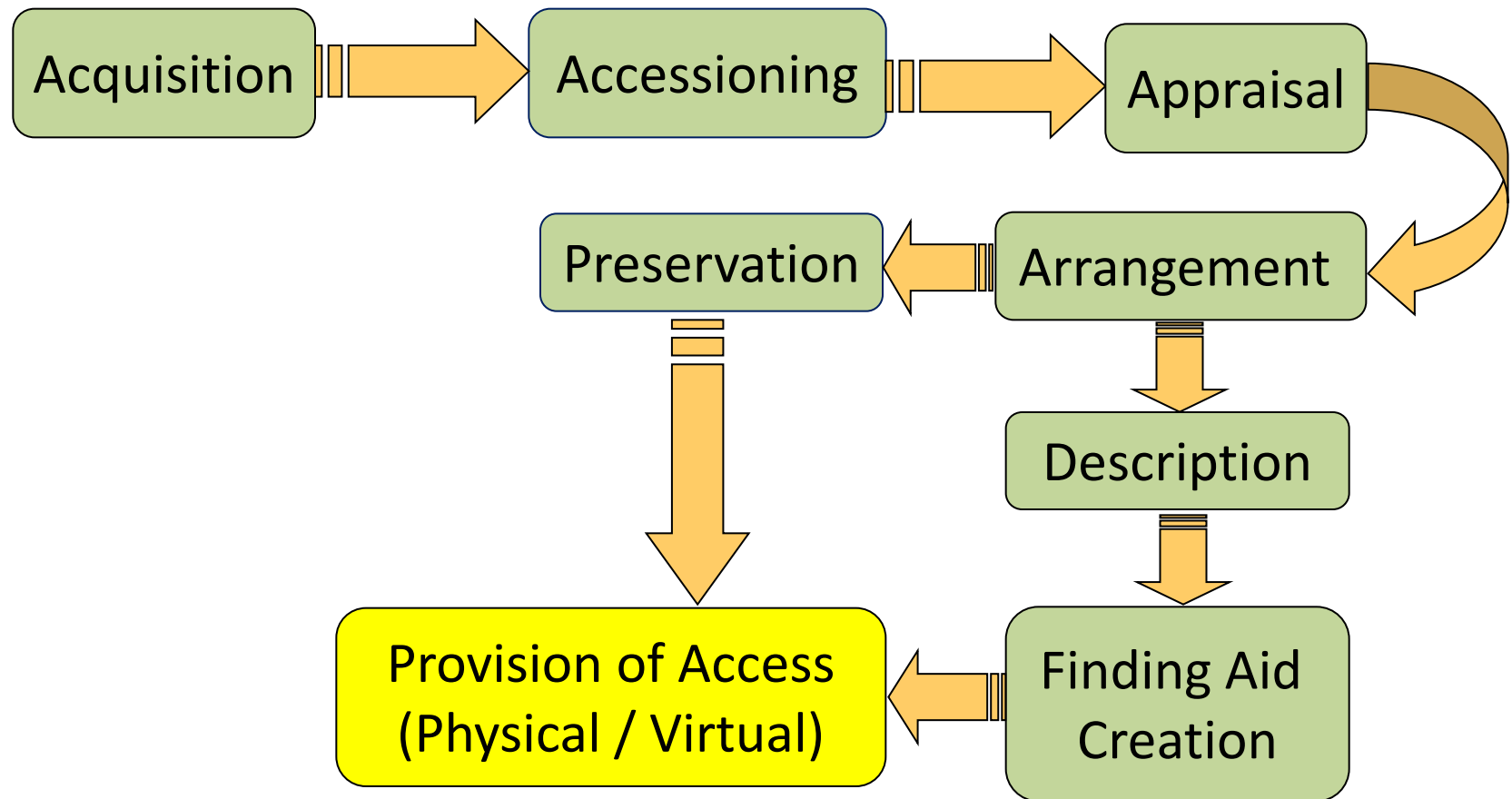


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“Moral and physical defence of archives” Jenkinson

Collection Processing



Moral and Physical Defence: Process Supported by Policy



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Organisational Policy

Remit to maintain an archive

Collection Policy

Defines what to collect

Acquisition Policy

Formal transfer process

Accessions Policy

What to document / assess

Re / Appraisal Policy

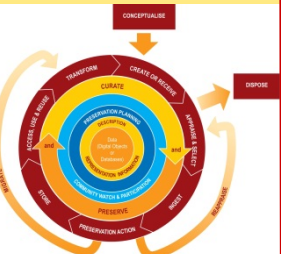
What to keep , for how long

Preservation Policy

Storage, handling etc.

Access Policy

Defines archive's users



Moral Defence: Archival Principles Support Process

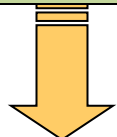


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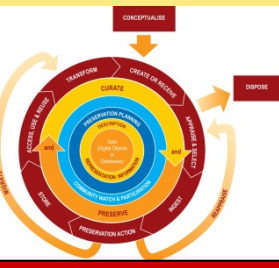
Arrangement
Hierarchical
-respect des fonds
-original order
-provenance
-function



Description
Cataloguing rules
- context
- standards
- interoperability
- indexing
- reference numbers



**Finding-aid
Creation**
- hard copy or online?
- digital images?
- Standalone /
networks?
- digital repositories?



Digital Preservation

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access alliance archiving article blog british
 collections congress develop **digital**
 educopia events experience explore geospatial group guenther helen
 highlights information infrastructure join **library** map
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 partners presented **preservation**
program read recommending report series
 services software standards stewardship support sustained technology tips
 tools video **web** yes

Tag cloud of: <http://www.digitalpreservation.gov/>

Digital Preservation Models



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- DCC Curation Lifecycle Model:

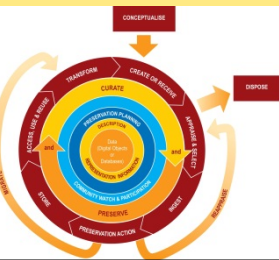
high-level overview of activities

“... provides a graphical, high-level overview of the stages required for successful curation and preservation of data from initial conceptualisation or receipt”.

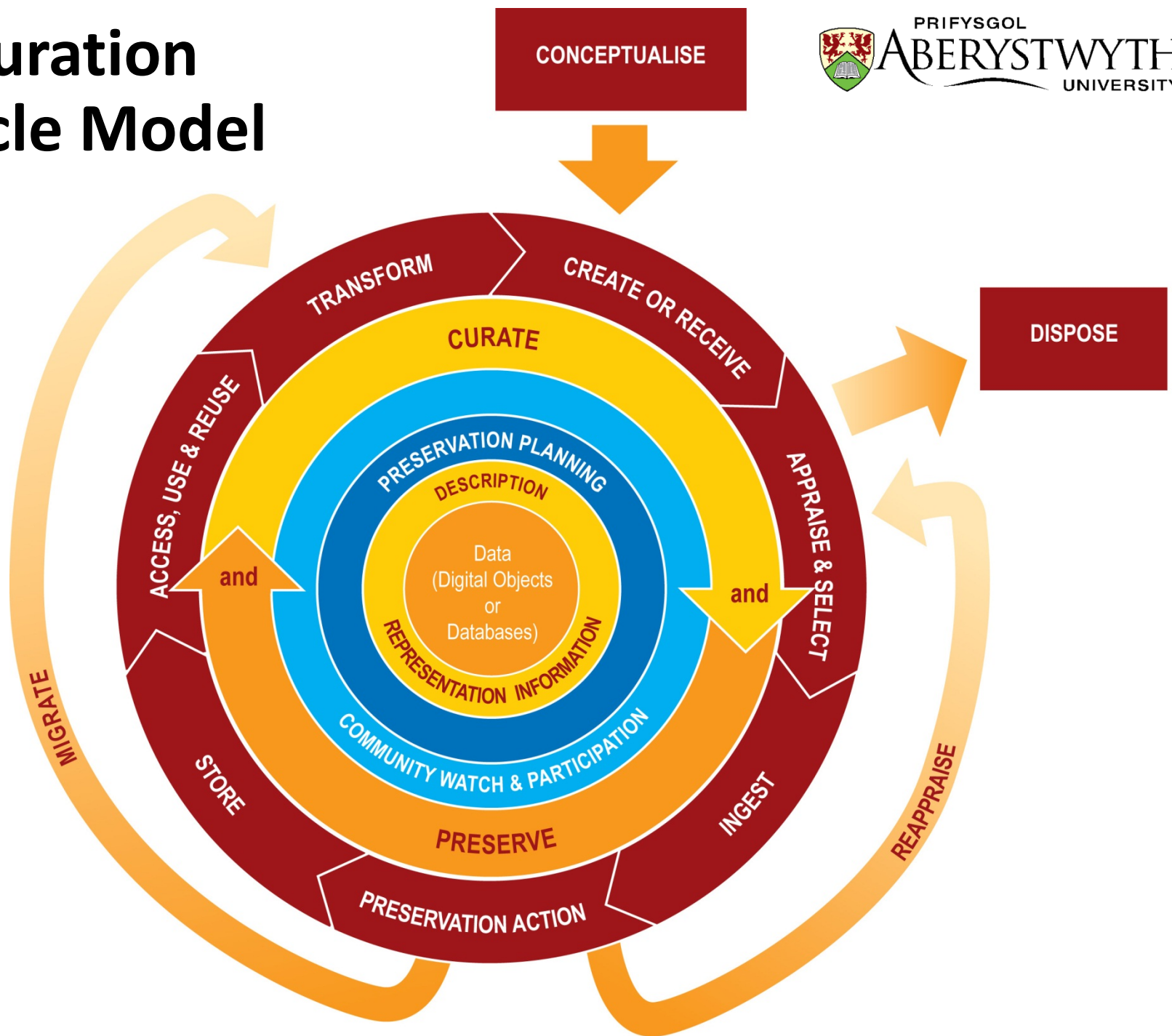
- OAIS (Open Archival Information System Reference Model – ISO 14721:2003)

nuts and bolts of activities

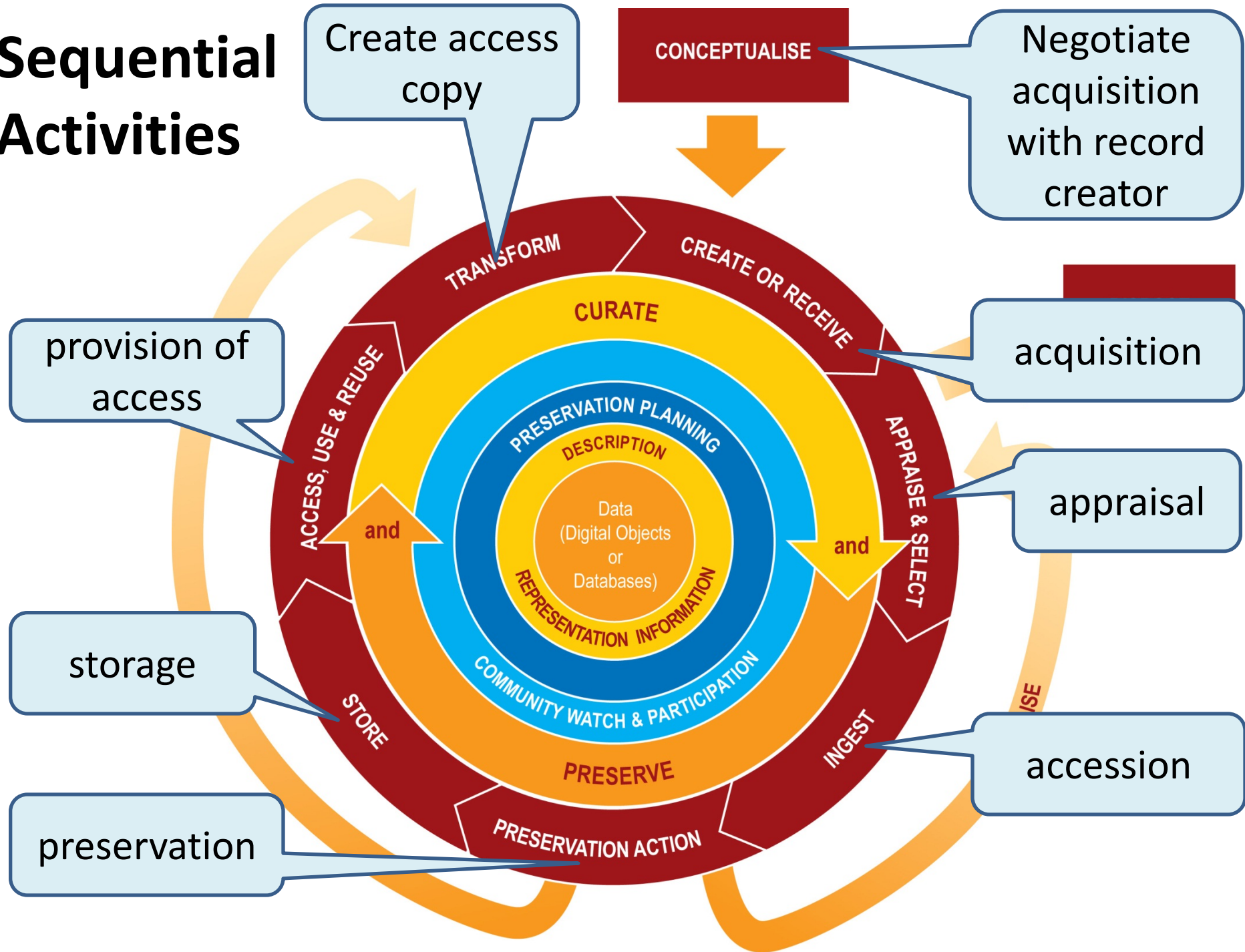
“The purpose of this International Standard is to establish a system for archiving information, both digitalized and physical, with an organizational scheme composed of people who accept the responsibility to preserve information and make it available to a designated community”.



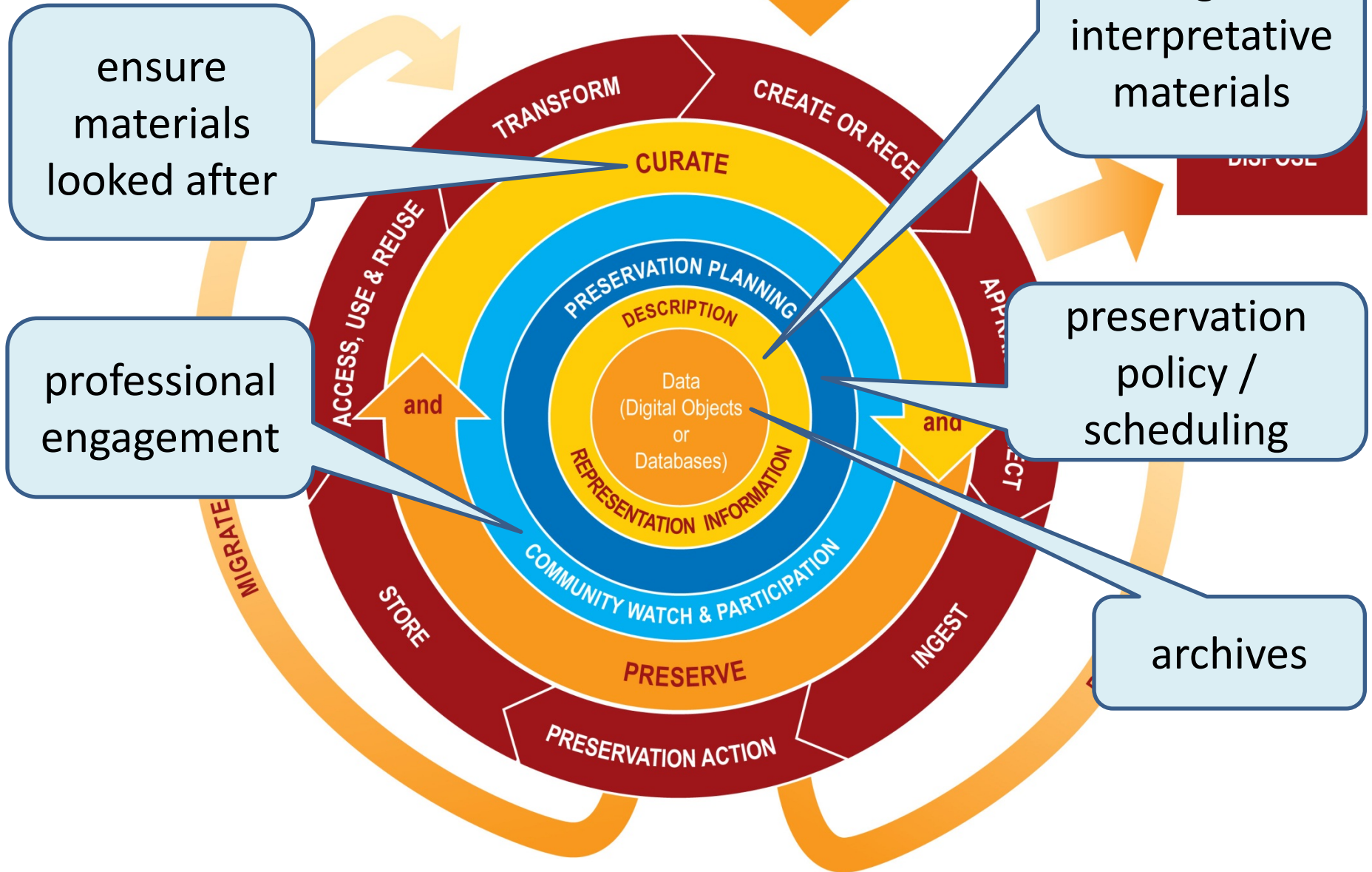
DCC Curation Lifecycle Model



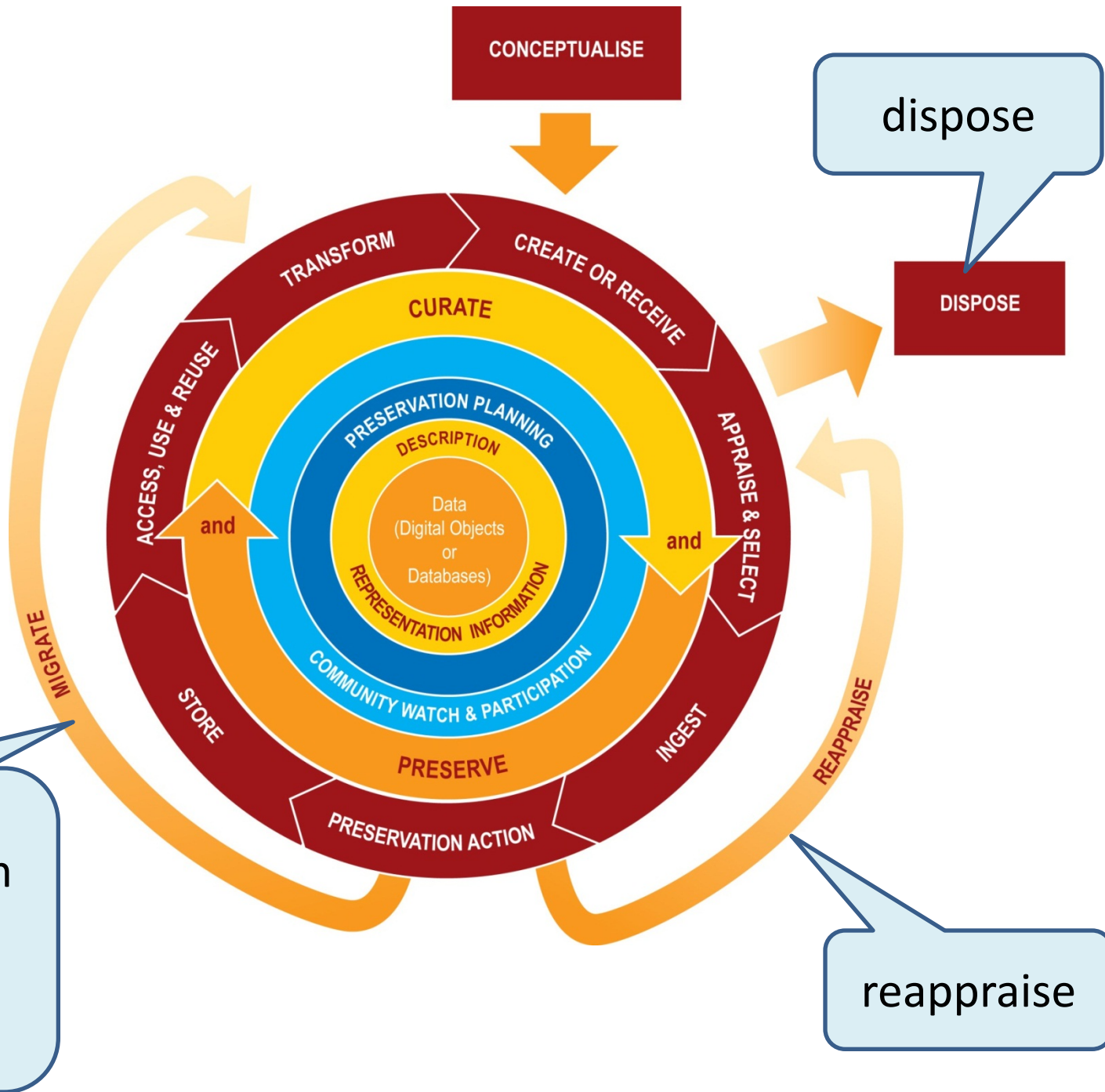
Sequential Activities



Full Lifecycle Activities



Occasional Activities



OAIS



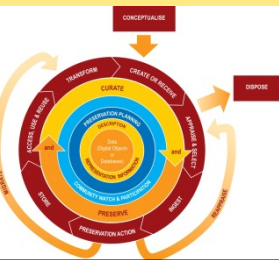
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3 main tenets

- Mandatory responsibilities
 - “Moral and physical defence”
- Functional model
 - actors and processes
- Information model
 - the specifics of description and interpretive materials needed to contextualise archival material – “moral defence”.

Specific technical methodologies

- Preservation
- Interoperability

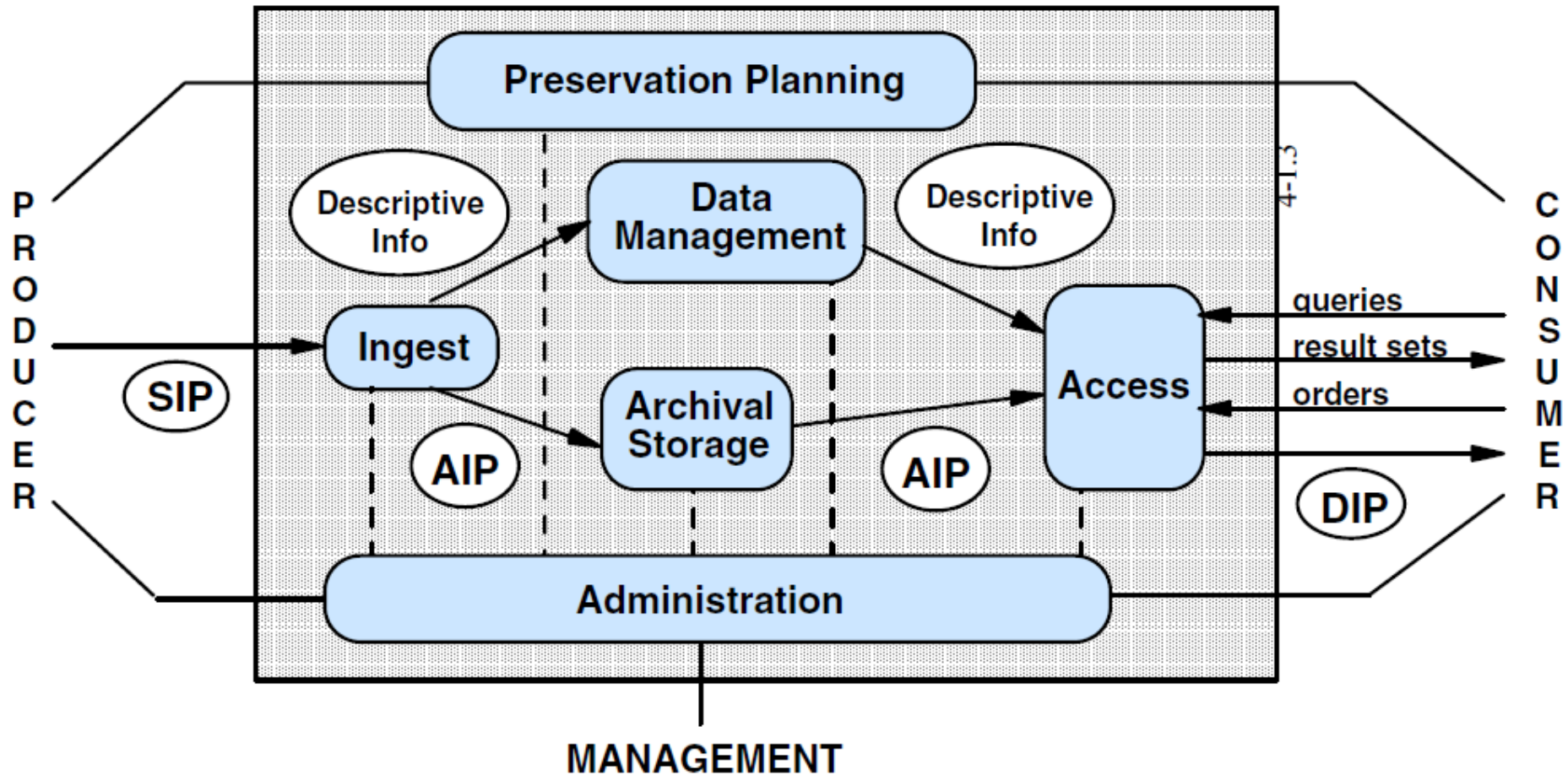


OAIS – 6 mandatory responsibilities

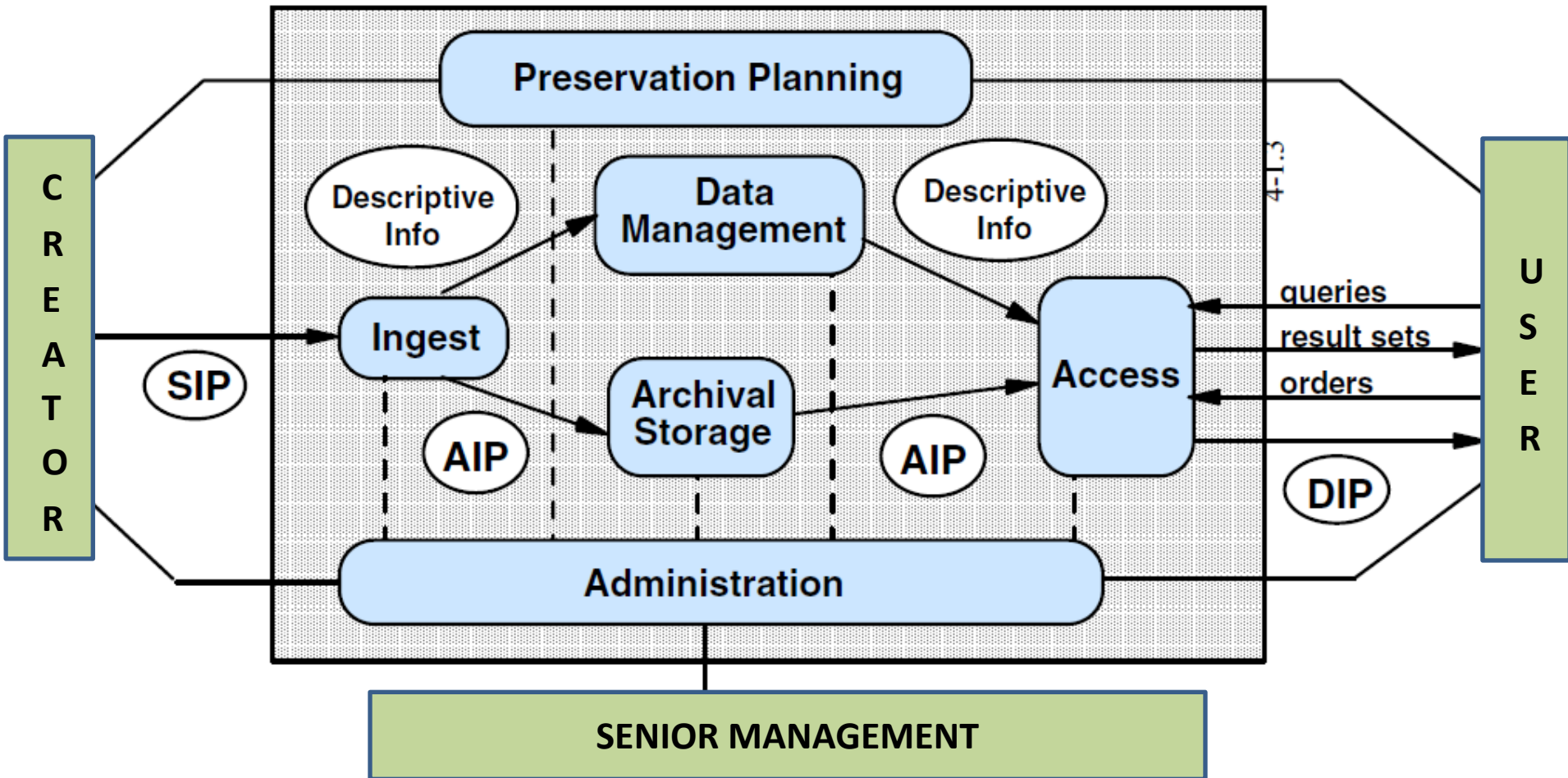
- 1 *Collect archival materials from the creator and accession into the repository supported by Collections Policy, Acquisition Policy and Accessions Policy.*
- 2 *Arrange, describe and ensure finding-aids are available for the material. Prepare the material for storage by removing anything harmful to long-term preservation, packaging appropriately and store in a suitable environment.*
- 3 *Develop an Access Policy and access methodology to ensure the material can be made available to the identified users.*
- 4 *Provide contextual information through arrangement and description - catalogues, finding-aids and interpretive materials.*
- 5 *Implement a Preservation Policy which ensures the materials do not deteriorate and are handled appropriately. Ensure secure storage so that records are not tampered with or inappropriately copied.*
- 6 *Ensure provision and procedures for access are in place for the identified users.*

OAIS – Functional model

Actors, Archives, Processes



Actors - OAIS – Functional Model

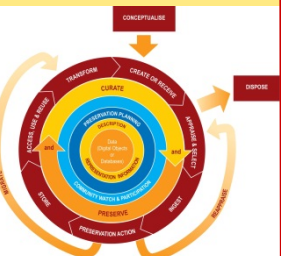


Archives - OAIS – Functional Model



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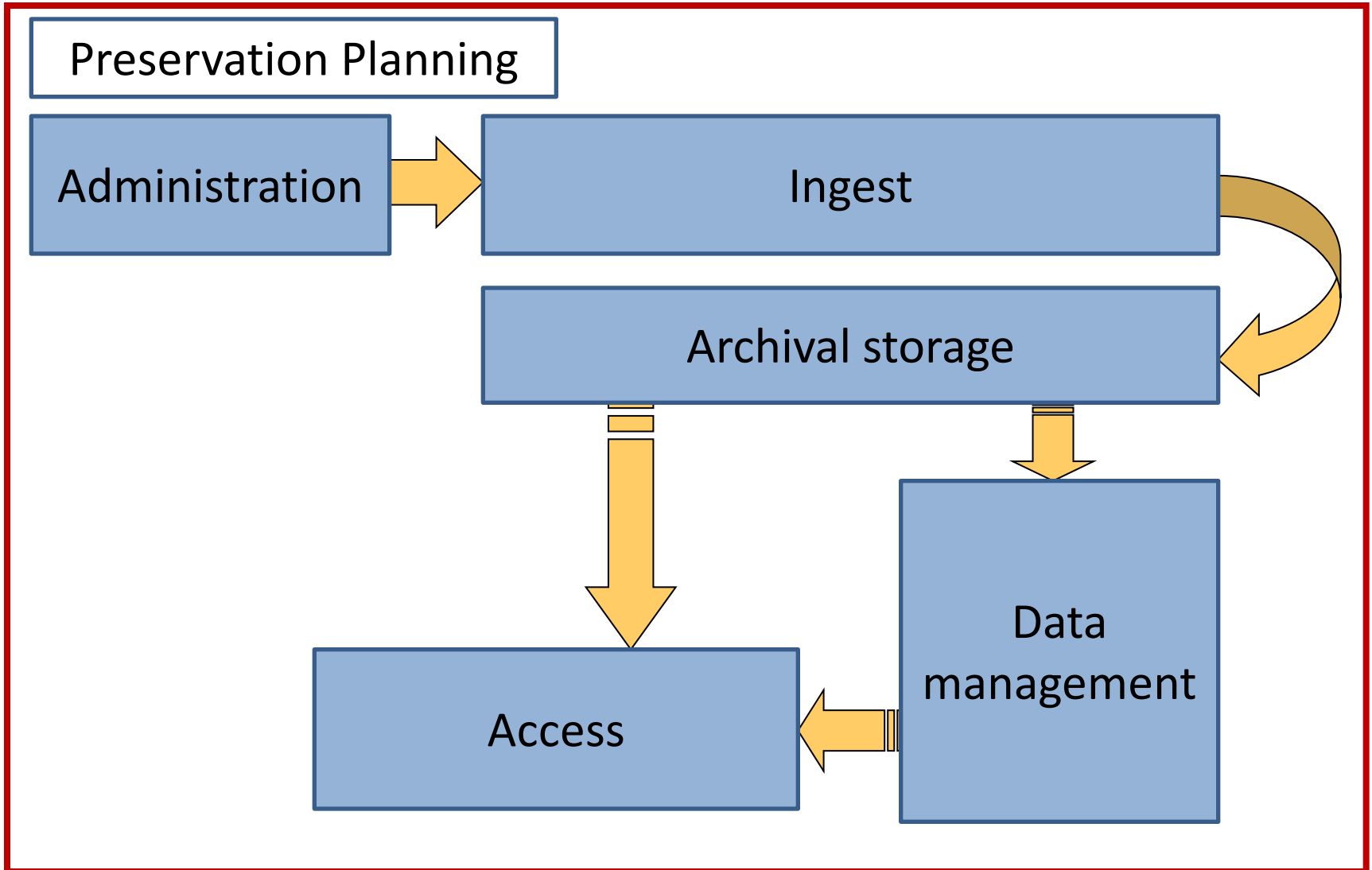
OAIS packages	Archival processing - stages
Submission Information Package (SIP)	Material in the state it is in when deposited with the archive – before arrangement, description and conservation activities.
Archival Information Package (AIP)	Material arranged, described, conserved and packaged.
Dissemination Information Package (DIP)	Material as it is presented to the user, including preservation surrogates.



Processes- OAIS – Functional Model

OAIS Functional Entities	Archival processes
Ingest	Accession and appraisal
Archival storage	Storage, arrangement, preservation and retrieval of archival material
Data management	Description and archive management
Administration	Acquisition, access control and IT management
Preservation planning	Preservation policy development and implementation
Access	Access policy and implementation
Common services	Support services external to the archive e.g. IT department, legal department

“Moral and physical defence of archives” Jenkinson

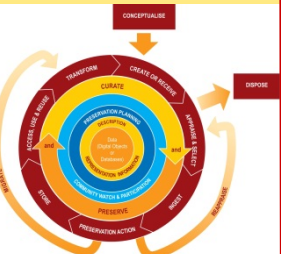


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- Curation of digital media has developed its own vocabulary and an accompanying mystique
- The archival processes are the same, just labelled differently





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