OAIS, Boundaries and Issues

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Overview

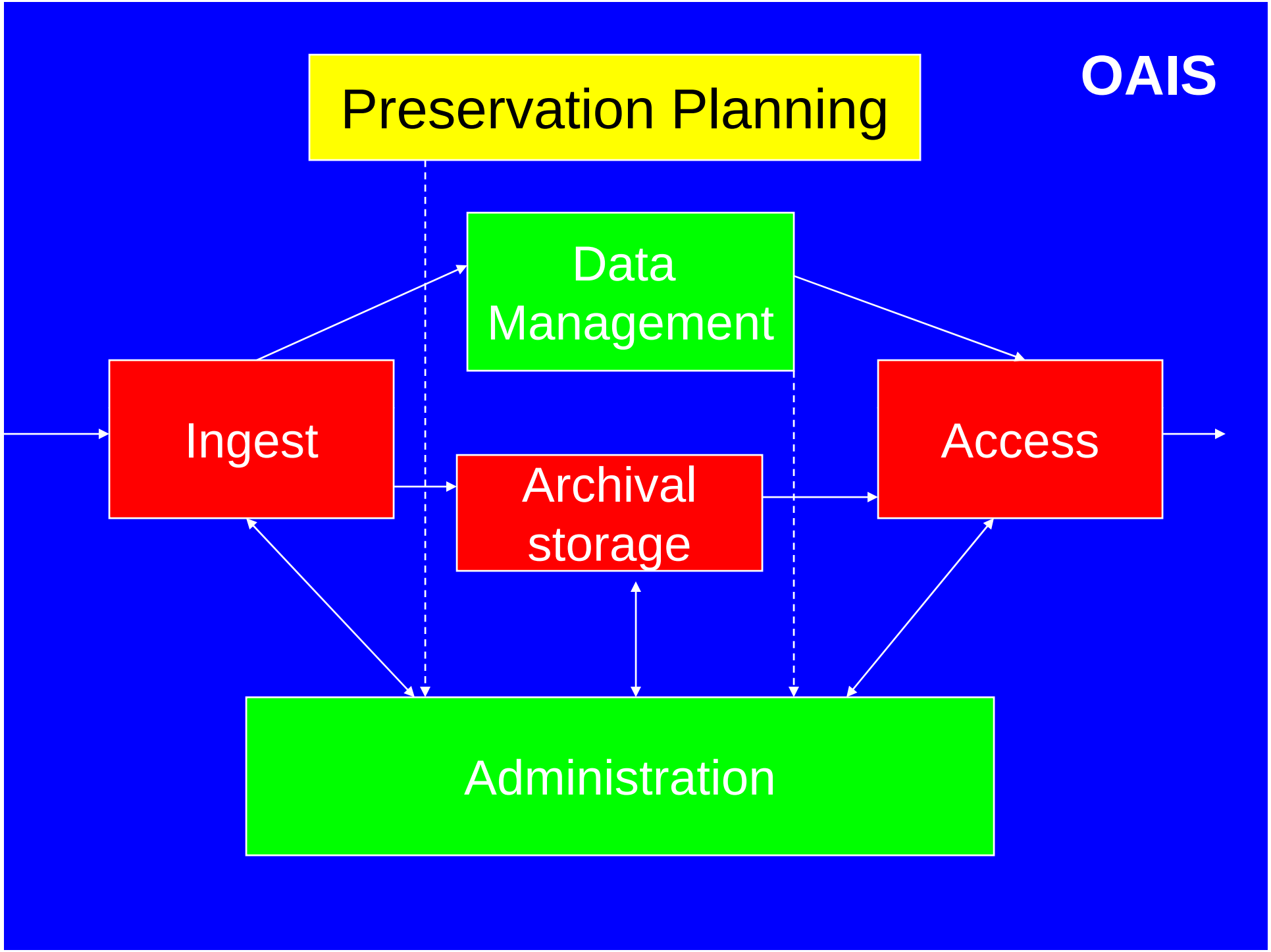
- Background
- How to use?
- Different views (e.g. from creation on)
- Current model based on current premises

Purposes - Background

- Provide different communities with common reference model for preservation
  - Libraries, Archives, Scientific data centres, Others
- Digital objects transferred to a custodian
- Covers preservation of digital objects in general
- Rather technical view of digital objects

Definition

- OAIS = ‘an archive consisting of an *organisation* of people and systems, that has accepted the responsibility to preserve information and make it available for a ‘designated community’’


OAIS
Preservation Planning
Data Management
Ingest
Archival storage
Access
Administration

The Model

- Functionality
- Metadata (information model)
- Relationships
- Strategy - methods: regime

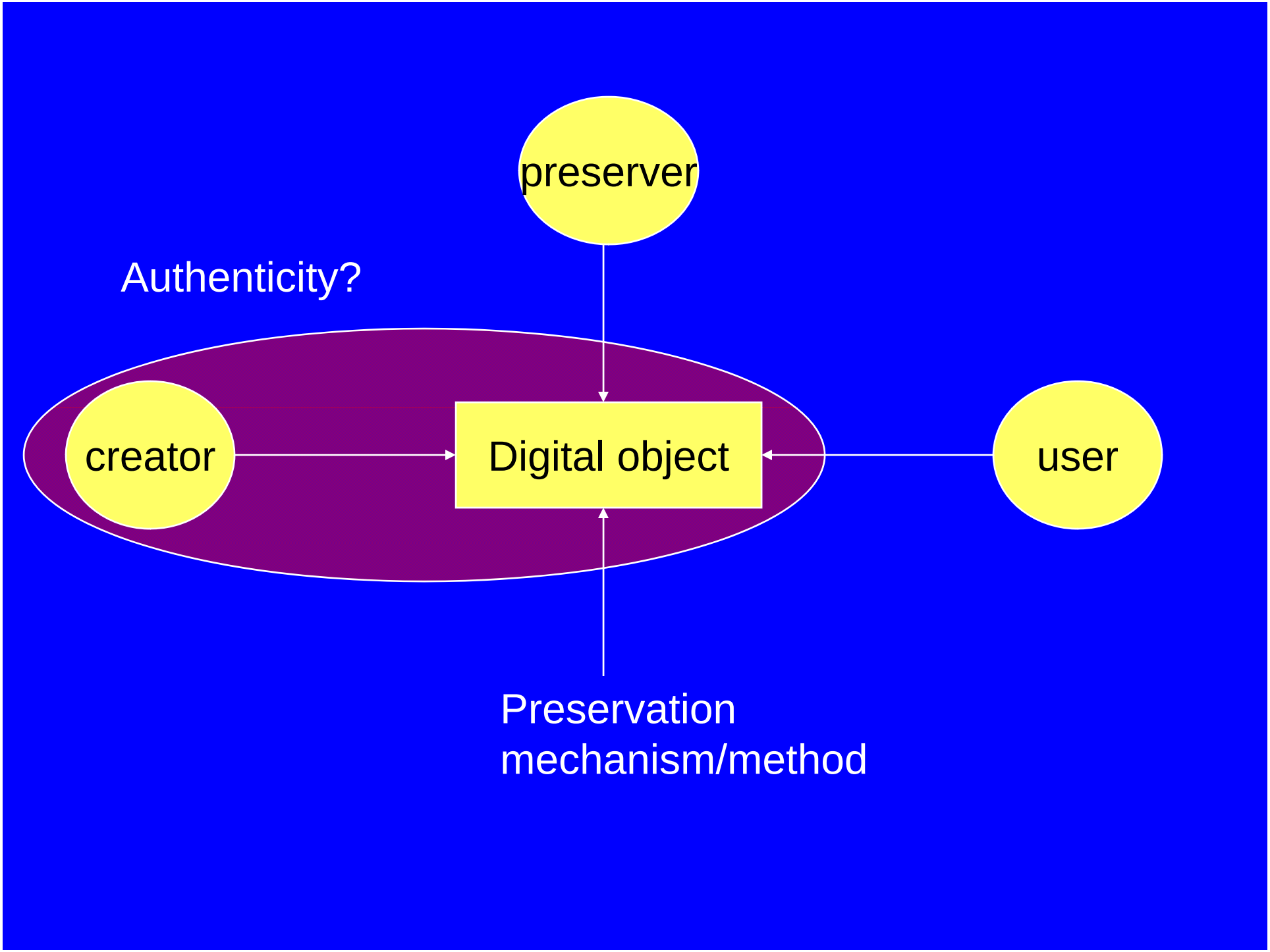
Preservation of what?

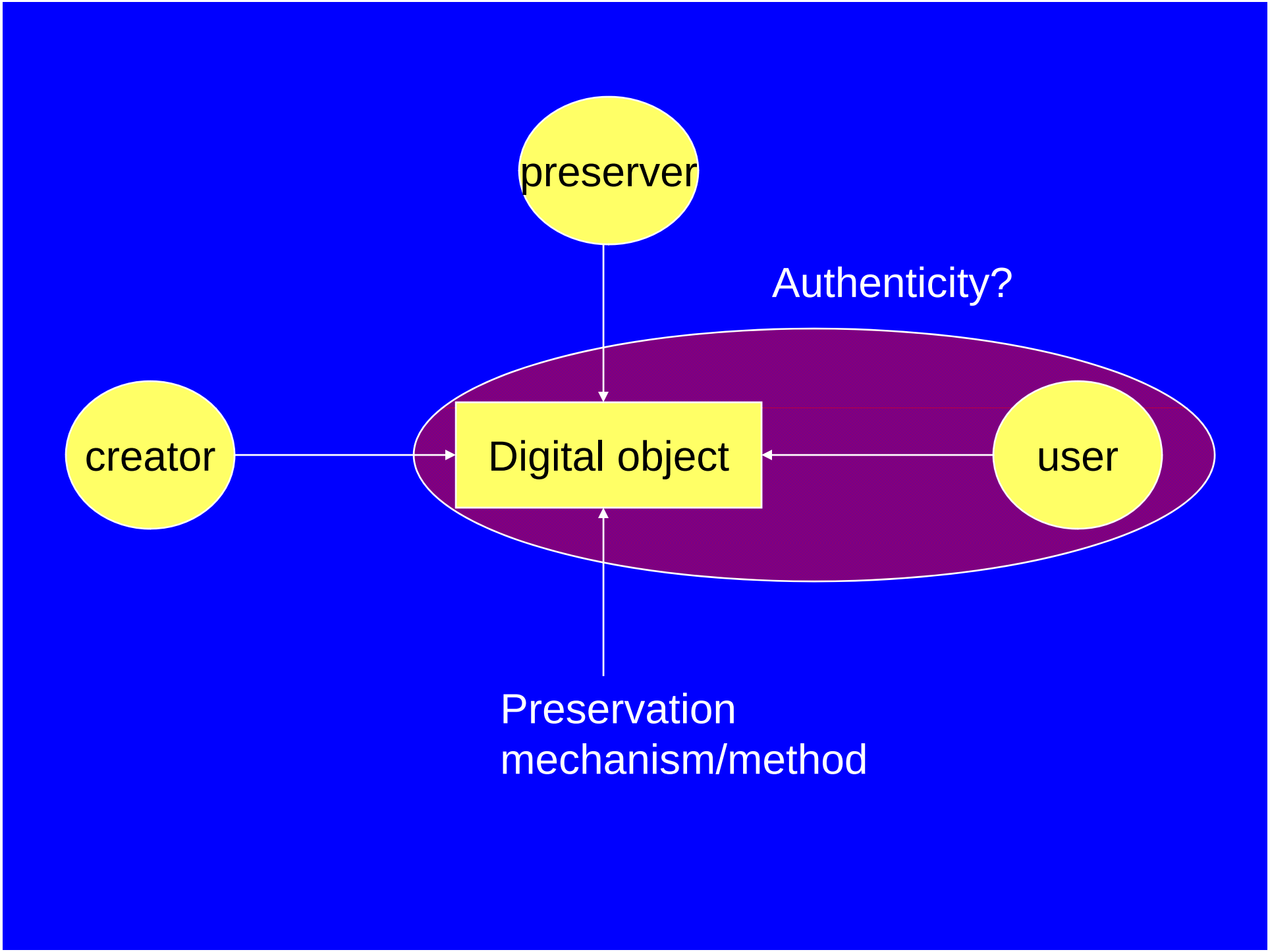
- Digital object(s) = ‘set of bit sequences’
- Information objects = Data Object and Representation Information
- Preservation of information

DATA FILE
+
Hardware
and
Software
=
RECORD
or
PUBLICATION

Authenticity

- Integrity
  - of data
  - of representation (intellectual entity)
- Preservation of the ‘object’ in its ‘original state’?
- Who or what determines authenticity?


preserver
Authenticity?
creator
Digital object
user
Preservation
mechanism/method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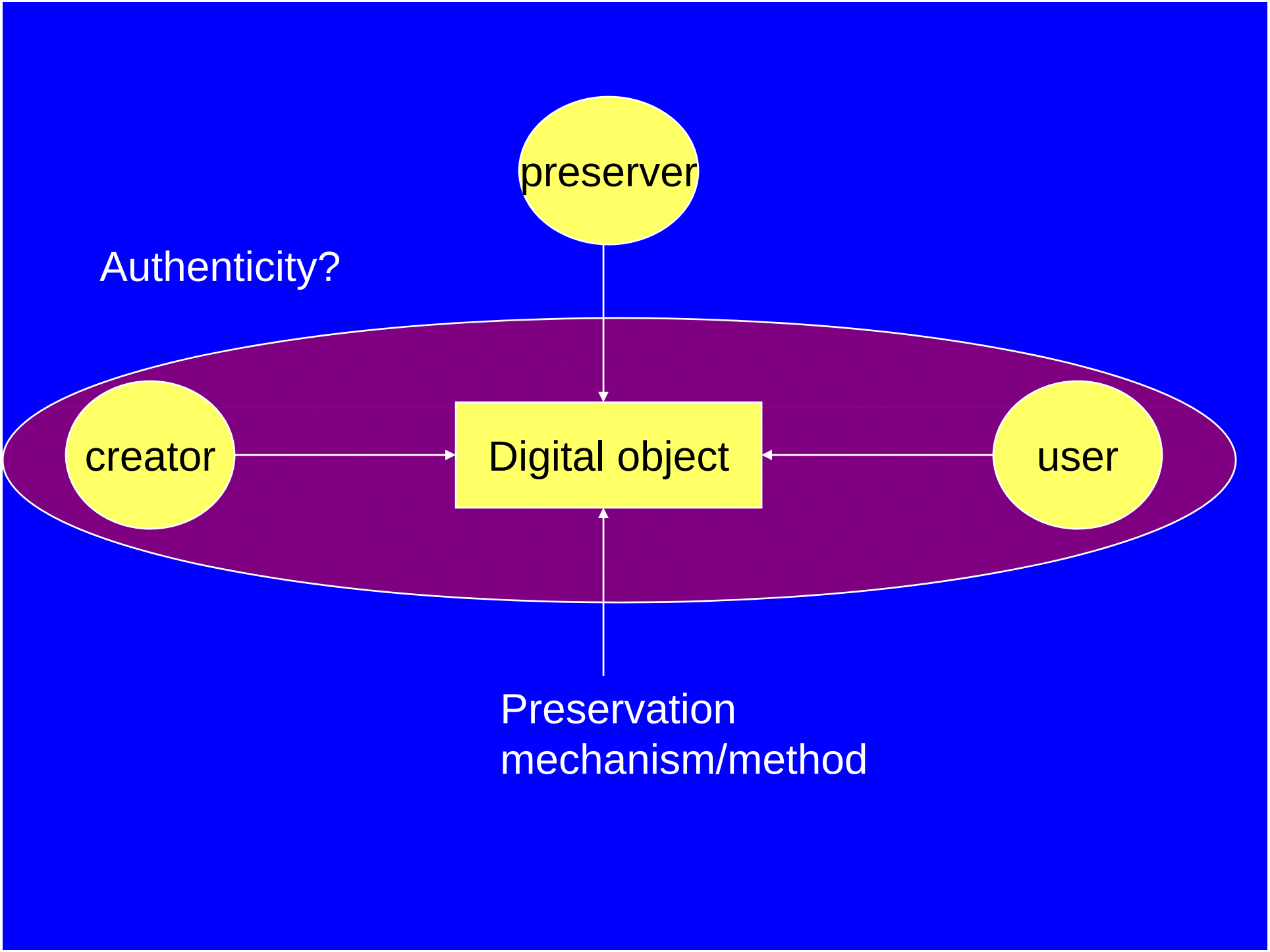
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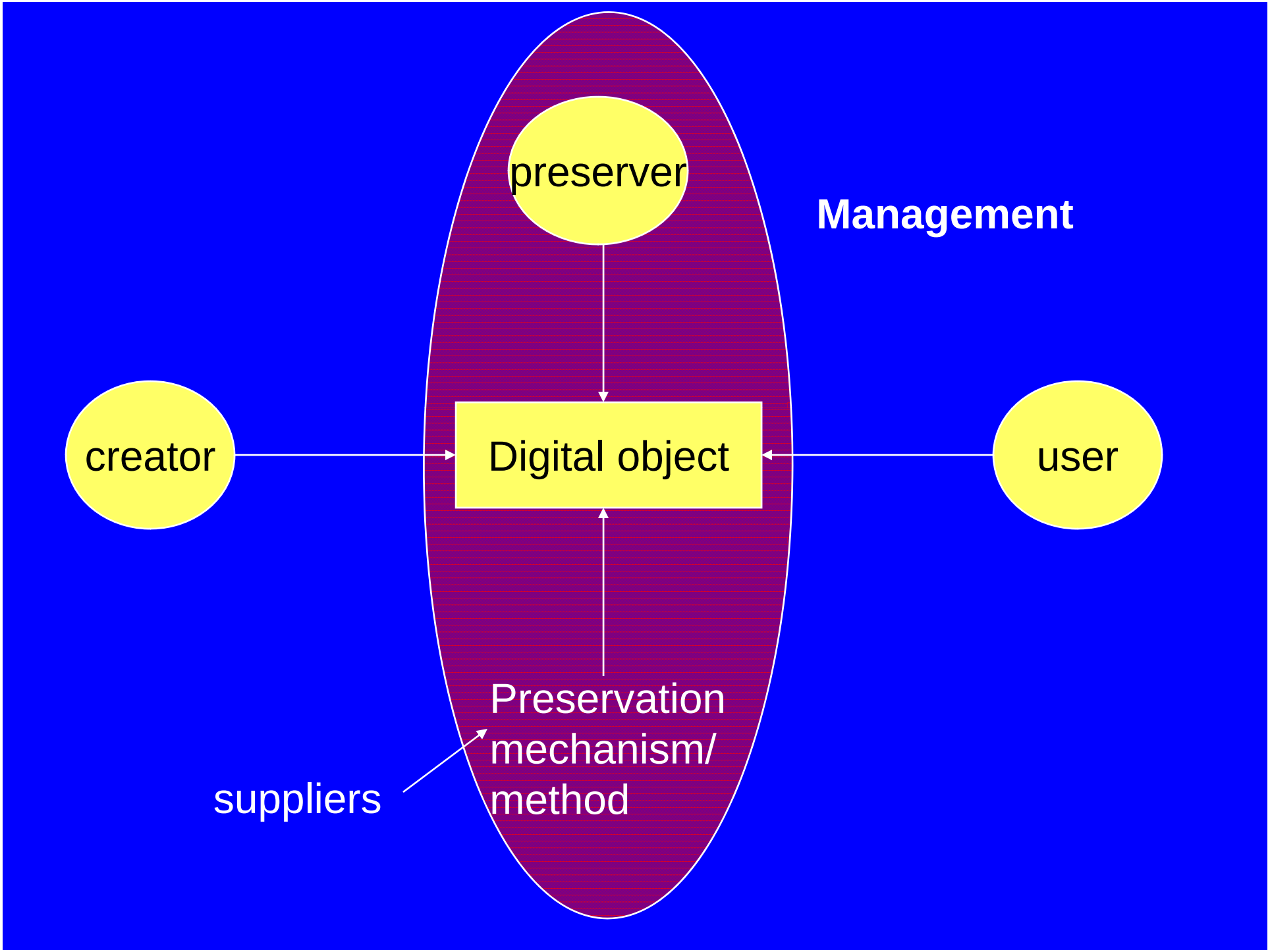
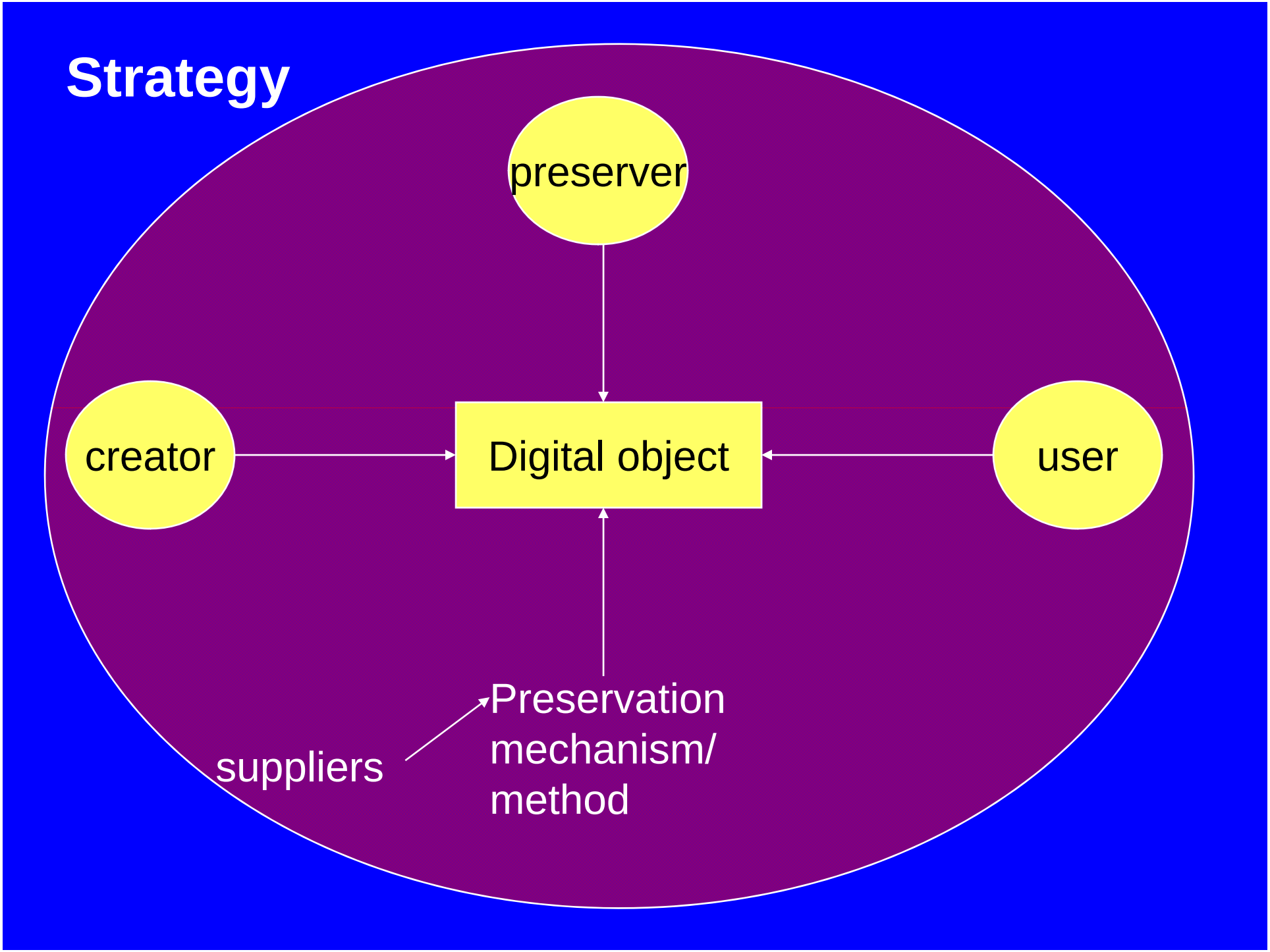

preserver
Management
creator
Digital object
user
Preservation
mechanism/
method
suppliers


Strategy
preserver
creator
Digital object
user
suppliers
Preservation mechanism/ method

From Model to Implementation

- Definition of concepts (Authenticity, accessibility)
- Identification of requirements
- Identification/analysis of nature of objects
- What functionality is needed in a certain context?

Application of the OAIS model

- for instance the Inter Pares preservation function model
- Inter Pares model