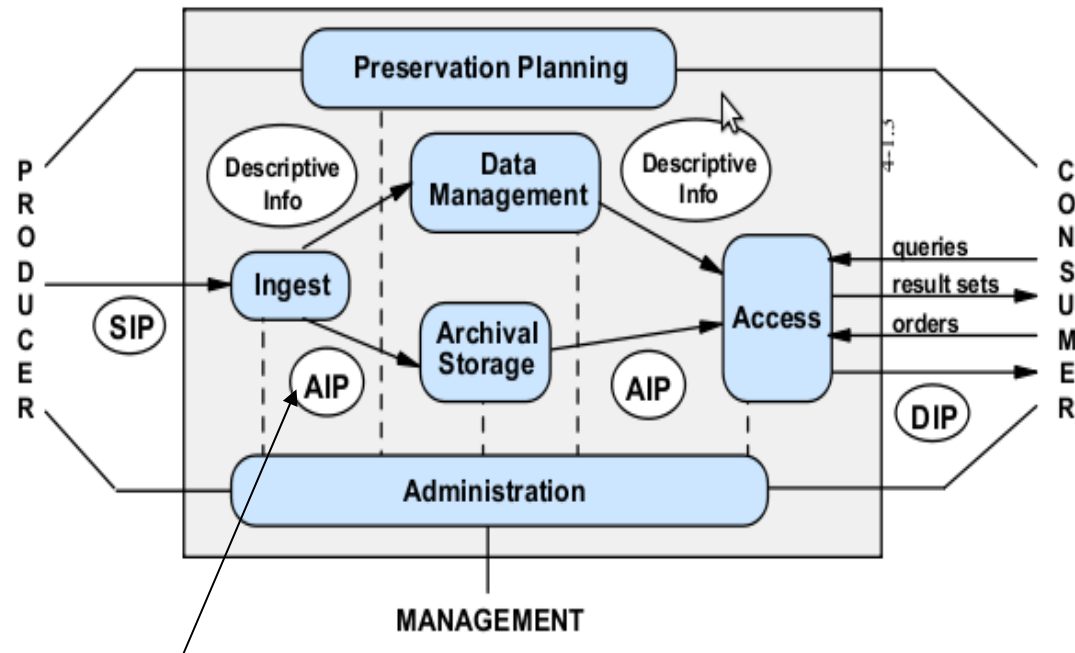


Data Curation and preservation by CNES & VOParis

Jean-Christophe Malapert
CNES

Pierre Le Sidaner
Observatoire de Paris

OAIS standard for data archive (ISO)

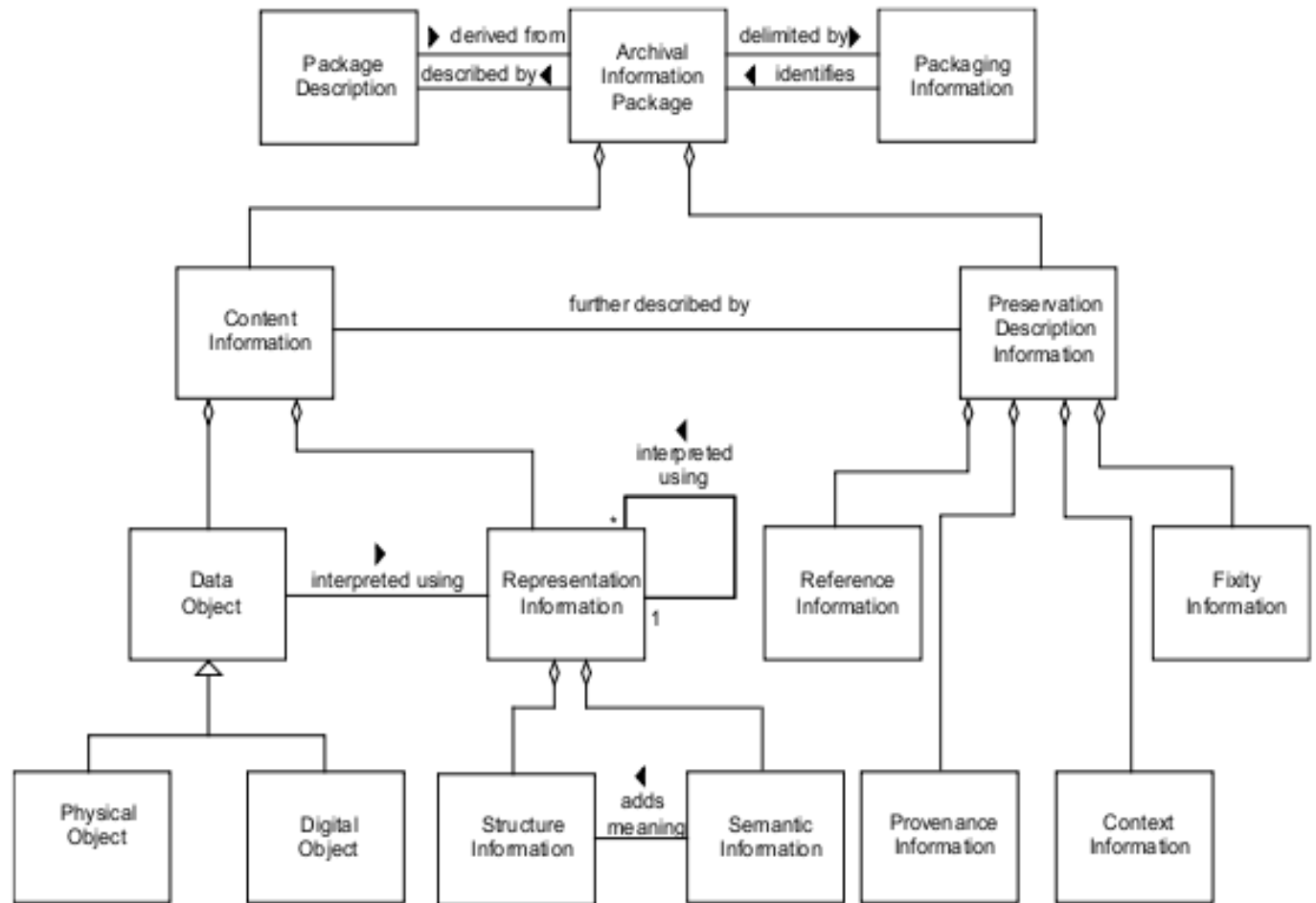


Archive information package
 Data + relative information for preservation

Preservation in OAIS

Context

OAIS and VO



Reference information

The information that identifies, and if necessary describes one or more mechanisms used to provide assigned identifiers for the Content Information. It also provides identifiers that allow outside systems to refer, unambiguously, to a particular Content Information. An example of Reference Information is an ISBN.

Context

OAIS and VO

Does ivo identifier correspond to this ?

`ivo://data_provider/service#IDnumber`

Provenance Information.

The information that documents the history of the Content Information. This information tells the origin or source of the Content Information, any changes that may have taken place since it was originated, and who has had custody of it since it was originated. Examples of Provenance Information are the principal investigator who recorded the data, and the information concerning its storage, handling, and migration

Context Information

The information that documents the relationships of the Content Information to its environment. This includes why the Content Information was created and how it relates to other Content Information objects.

This supposes to be in the provenance data model in the VO ?

Context

OAIS and VO

Fixity Information.

The information which documents the authentication mechanisms and provides authentication keys to ensure that the Content Information object has not been altered in an undocumented manner. An example is a Cyclical Redundancy Check (CRC) code for a file.

Use classical md5 sum?

Context

OAIS and VO

**Structure information + Semantic information
outscope the VO because vo deals with exchange
format not archive native format.**

Package description : part used by DAL

Why be bother by OAIS

Context

OAIS and VO

- ♦ **Archive will have to be OAIS compliant**
- ♦ **Audit procedure is under definition**

<http://wiki.digitalrepositoryauditandcertification.org/bin/view>

- ♦ **OAIS Standard**

<http://public.ccsds.org/publications/archive/650x0b1.pdf>