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Digital Preservation as a Service

Principle

- Digital preservation might be difficult
- There is plenty of different aspects you should be aware and capable to handle
- Everyone doesn't have to do everything
- Focusing to responsibilities and information

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DPAS – Digital Preservation As Service

- Service portfolio to support life-cycle management, preservation and access to information
- Administrative support and technical interfaces
- Based on of Public Administration Enterprise Architecture quidelines and Service Integration Layers
- National Archives provides ingest interface and requirements to use it.

The Big Change

- From systems to services
  - Transition in progresss…
- We use Digital Preservation service
- We Provide Archival catalog service

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Preservation layers

Semantic

- Designated community and their needs
- Content can be used in meaningful way
- Preservation value of the information, appraisal

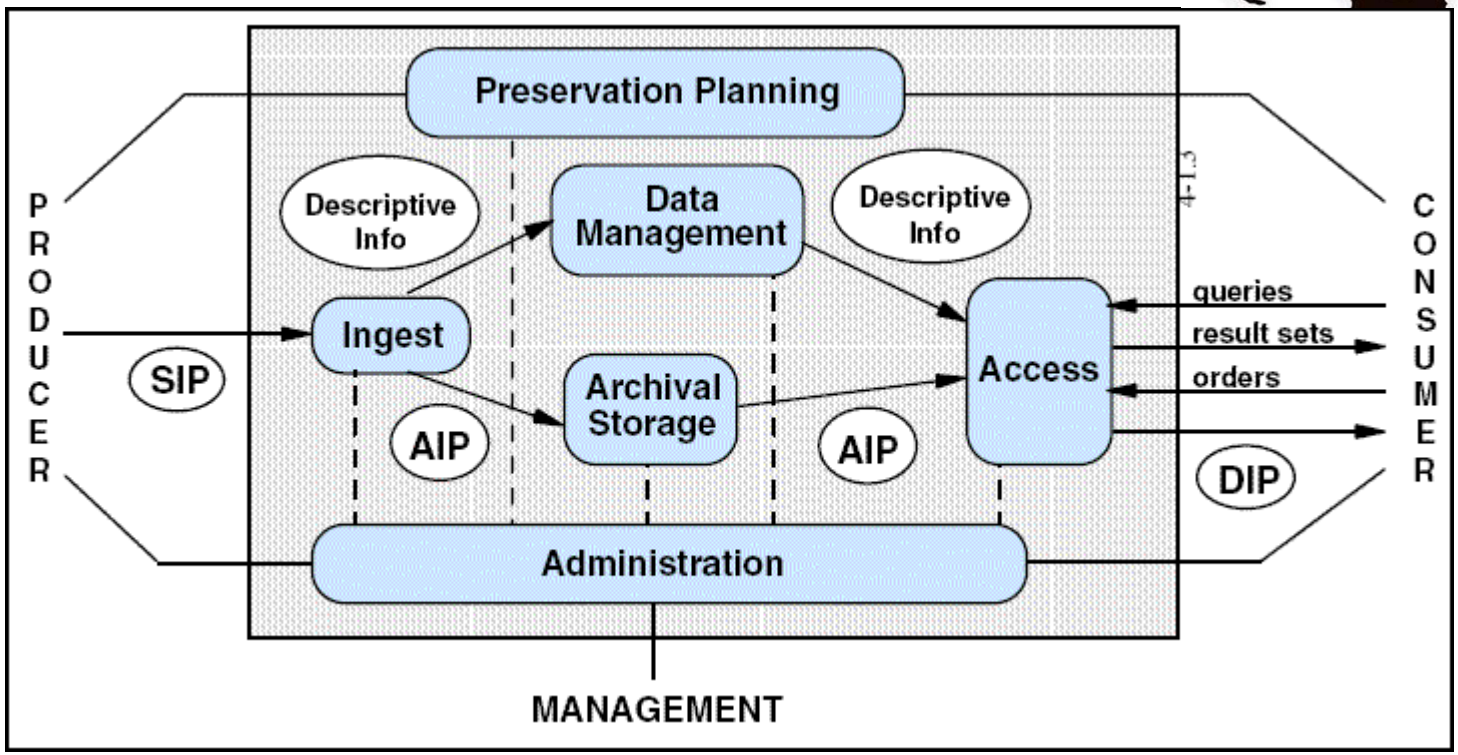
Logical

- Preservation activities management
- Administrative metadata for controlling the content
- Requirements for fileformats and metadata structures

Technical

- Securing integrity and accessibility
- Storage media management
- Preservation activies (preservation plan)
- Bit level presentation (technical integrity)

Something familiar?



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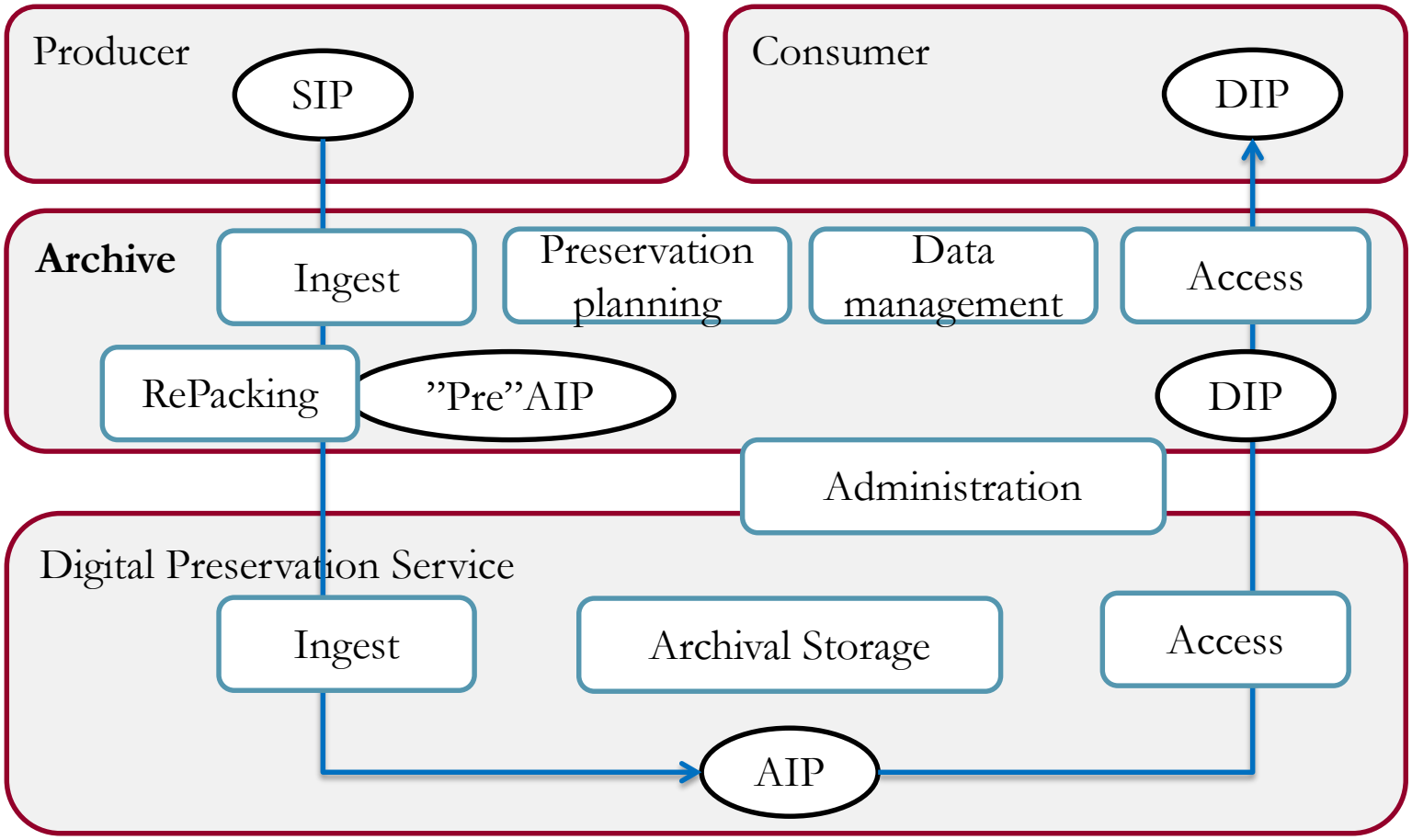

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National Archives

National Library

National Board of Antiques

Long-Term Preservation steering group

Ministy of Education and culture

Long-term Preservation Service

CSC – IT Center for Science

METS profiles wrapping toolkit

Fileformats Standard portfolio

Preservation activies Validation tools

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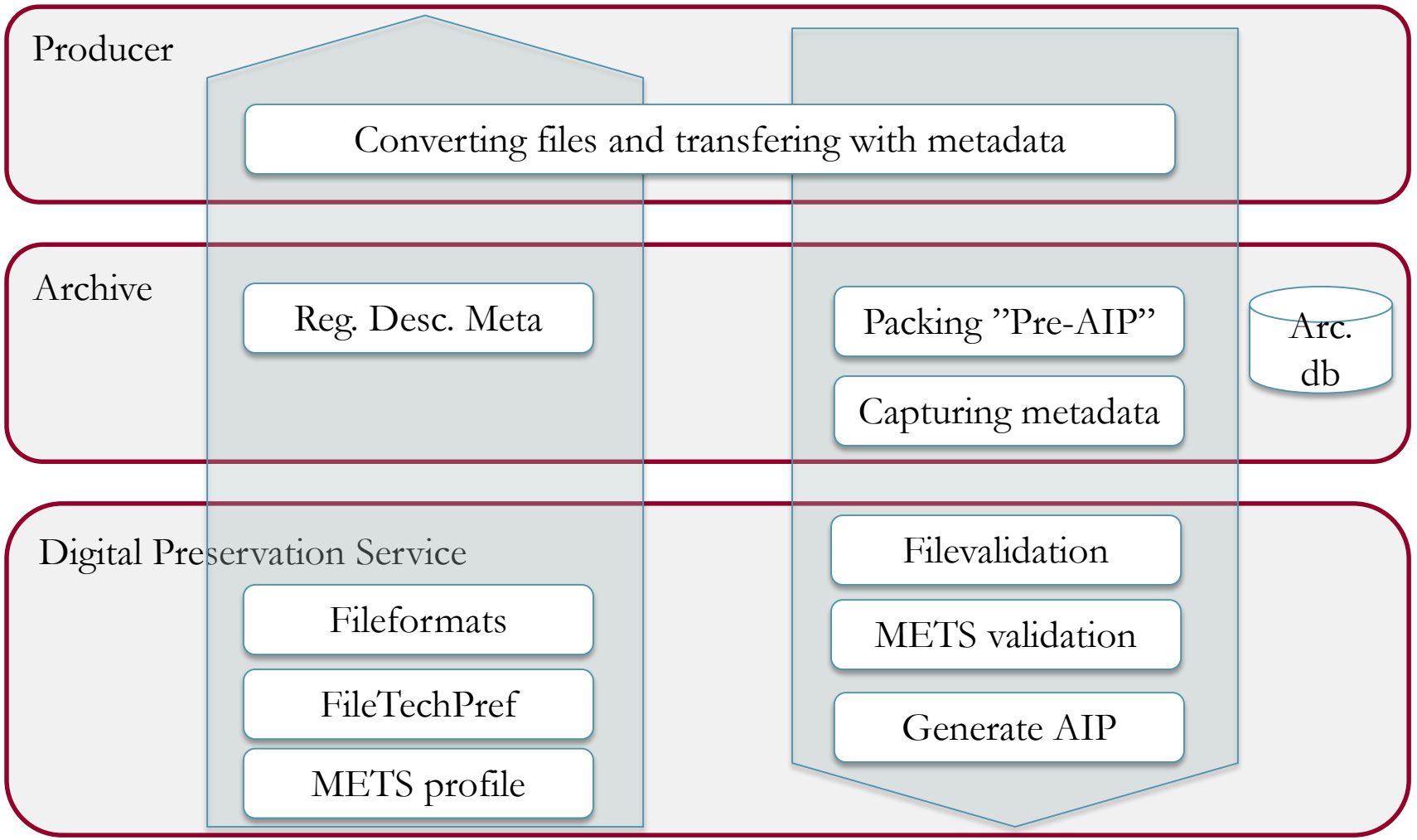
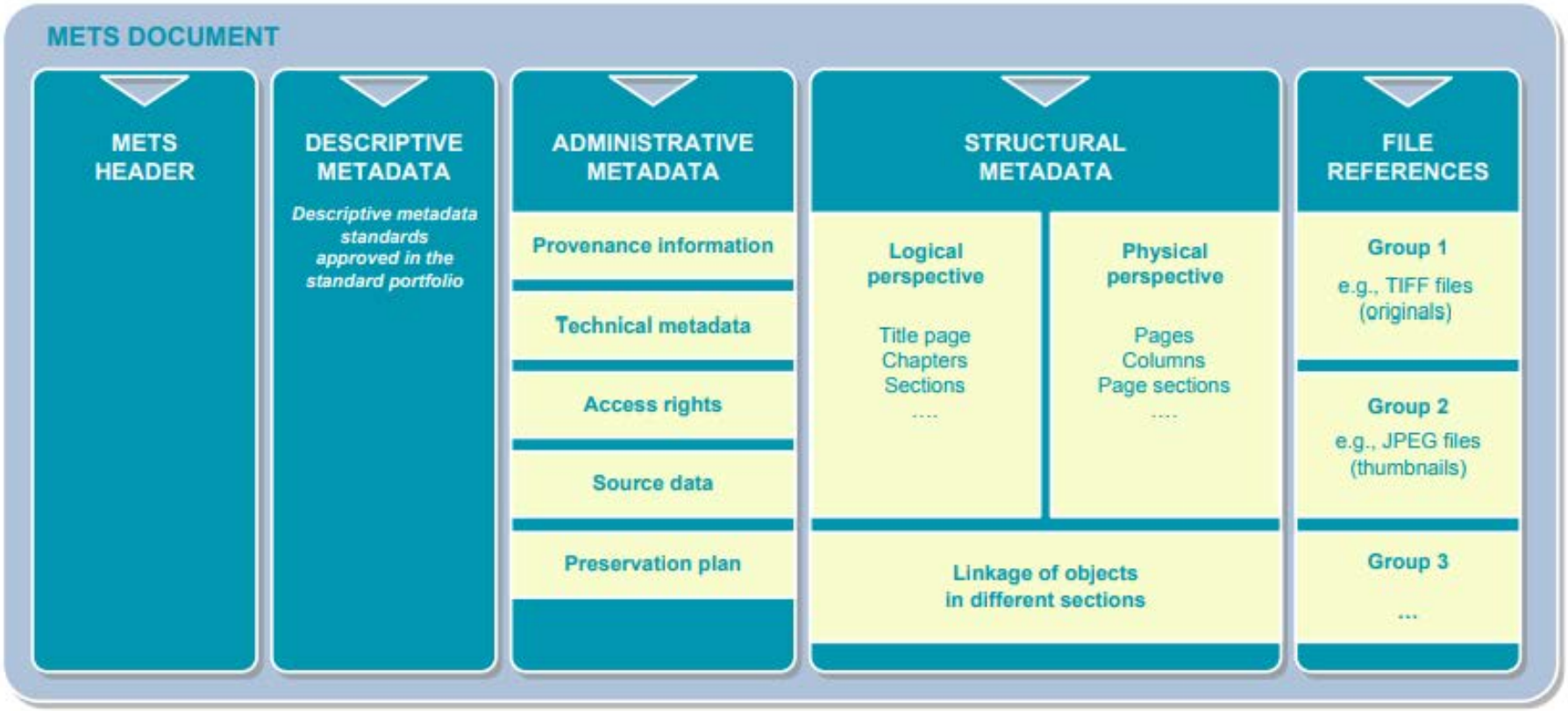
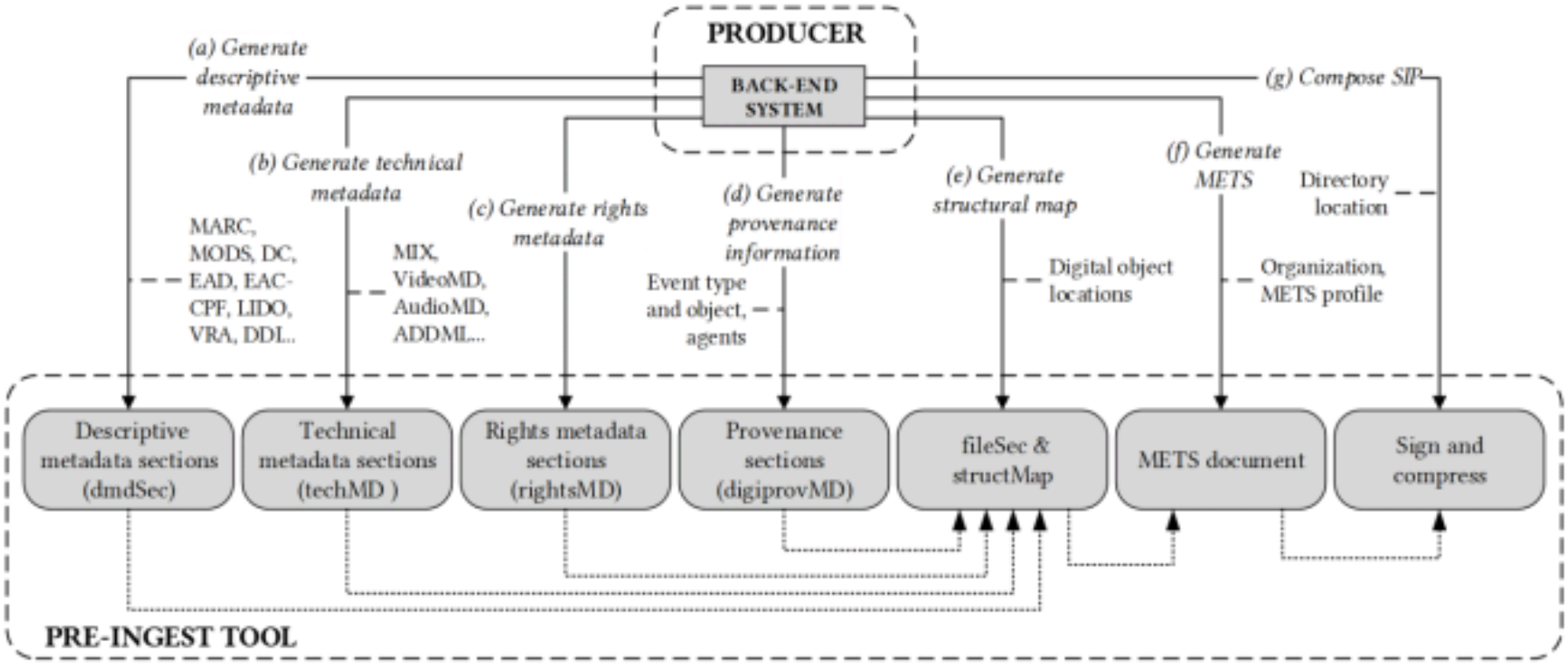


Preservation ”toolbox”

- Predefined set of *FileFormats* for digital preservation and related technical metadata
- METS wrapping-service for RM metadata
- REST interface to communicate with LDPS
- Validation tools (JHOVE, veraPDF)


METS DOCUMENT
METS HEADER
DESCRIPTIVE METADATA
Descriptive metadata standards approved in the standard portfolio
ADMINISTRATIVE METADATA
Provenance information
Technical metadata
Access rights
Source data
Preservation plan
STRUCTURAL METADATA
Logical perspective
Title page
Chapters
Sections
....
Physical perspective
Pages
Columns
Page sections
....
Linkage of objects in different sections
FILE REFERENCES
Group 1
e.g., TIFF files (originals)
Group 2
e.g., JPEG files (thumbnails)
Group 3
...



Modular Pre-Ingest Tool for Diverse Needs of Producers
http://www.kdk.fi/images/tiedostot/ipres_2017.pdf

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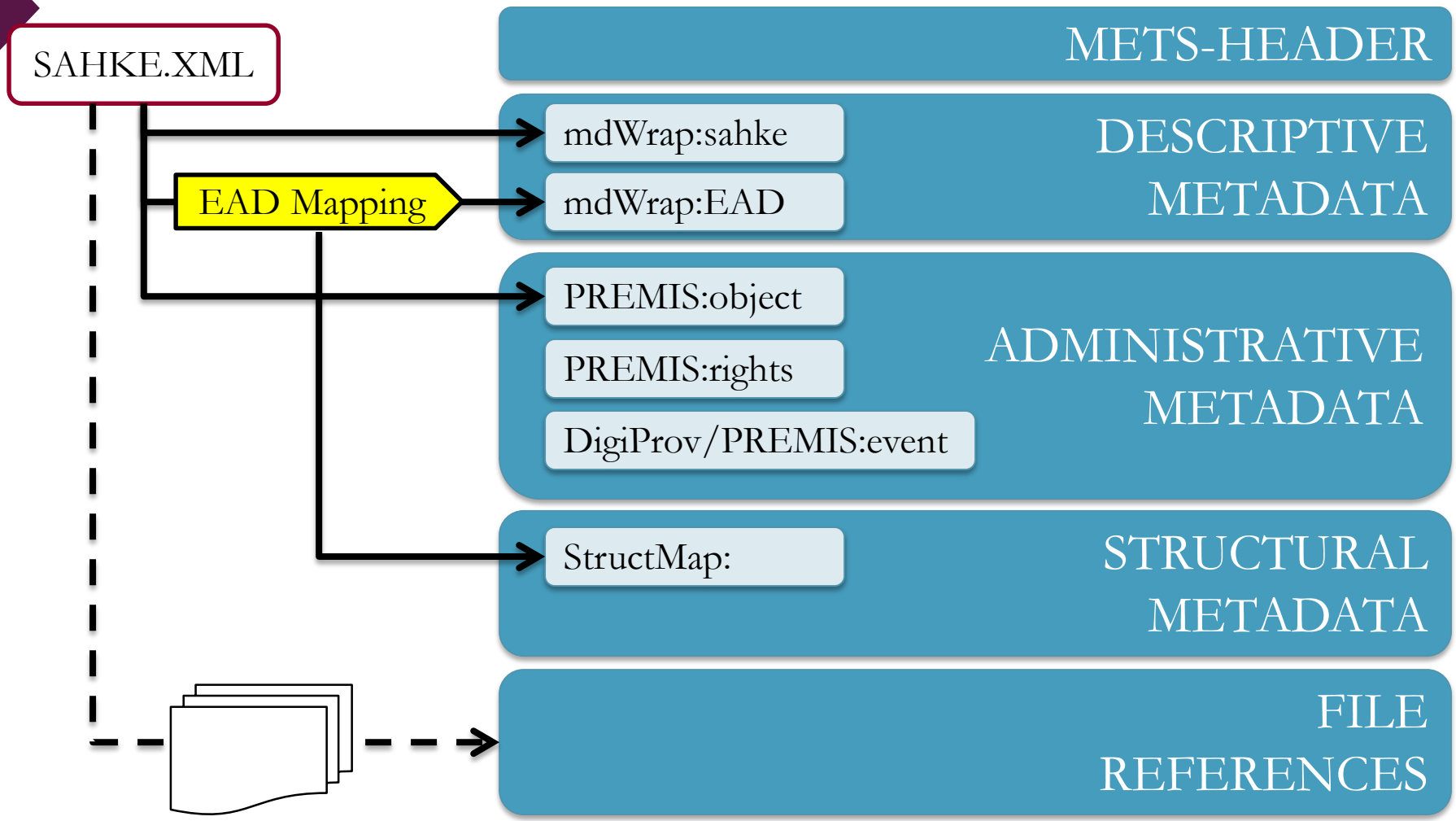

Admistrative issues

- Mandate from the goverment to arrange the service
- Archives has right to decide what to preserve, common understanding how to preserve
- Ministry of Education streamline preservation activies in memory organizations.
- Expert networking and concentration to core activities

How it is built?

- OAIS compliant
  - Current focus to Ingest functions.
- open source (available from Gitbub)
- Functional design co-operation with memory organizations
- Sofware design and development by CSC

Findings…

- Archives role as a ”coordinator”
- Focus to information management
- Agencies need better tools to
  - Prepare content and metadata
  - Validate files and formats
- Agreements about responsibilities
- Co-operation is not allways so simple…

Link

- Metadata Requirements and Preparing Content for Digital Preservation
- File Formats
- Digital Preservation Service Interfaces
- Schema catalog and schematron rules
- Enterprise Architecture for the National Digital Library v3.0 (summary, slides)
- National Digital Library Standard Portfolio

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