



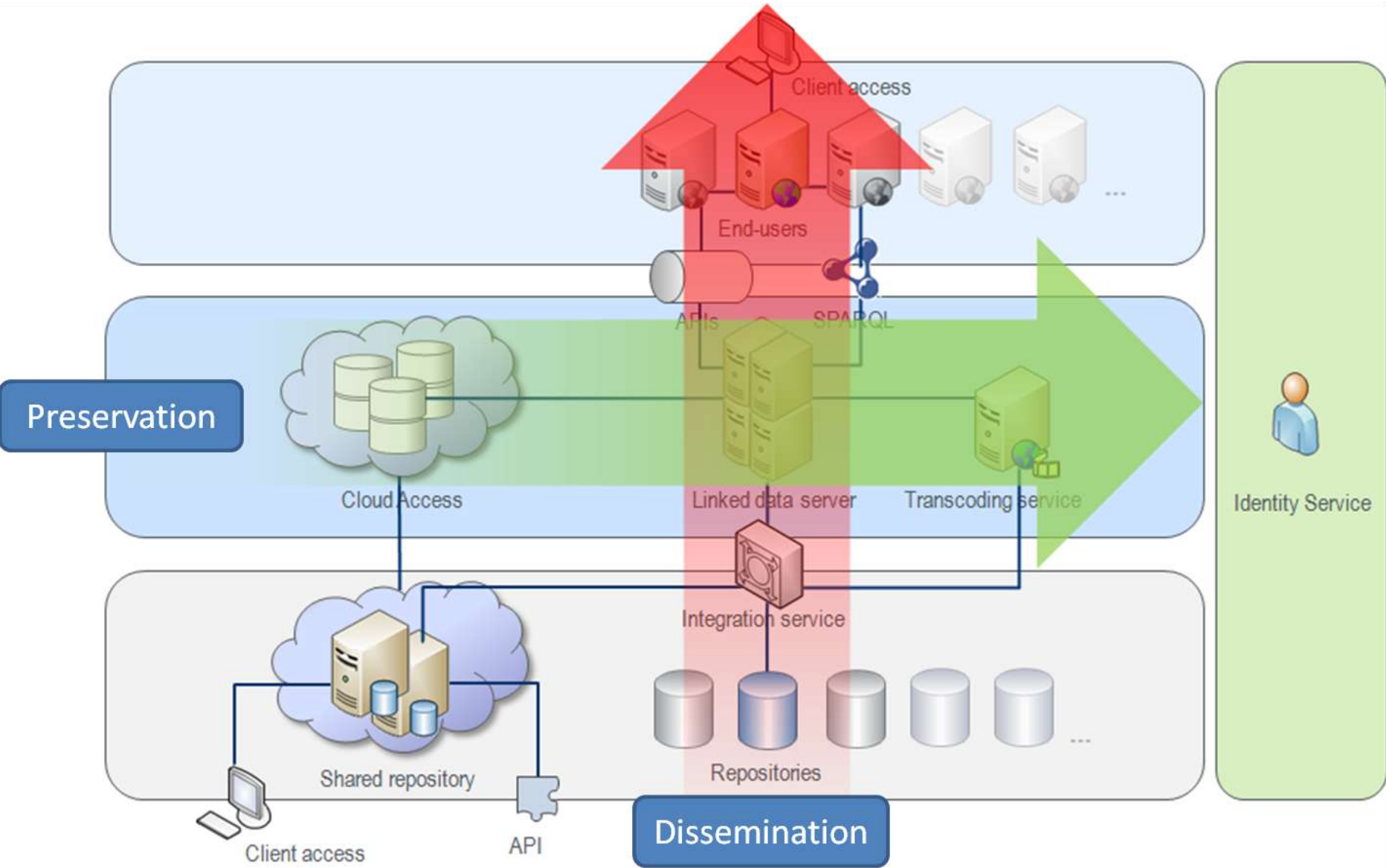
# Linked Open Data Server & Premis OWL

Sam Coppens  
MMLab

# Overzicht

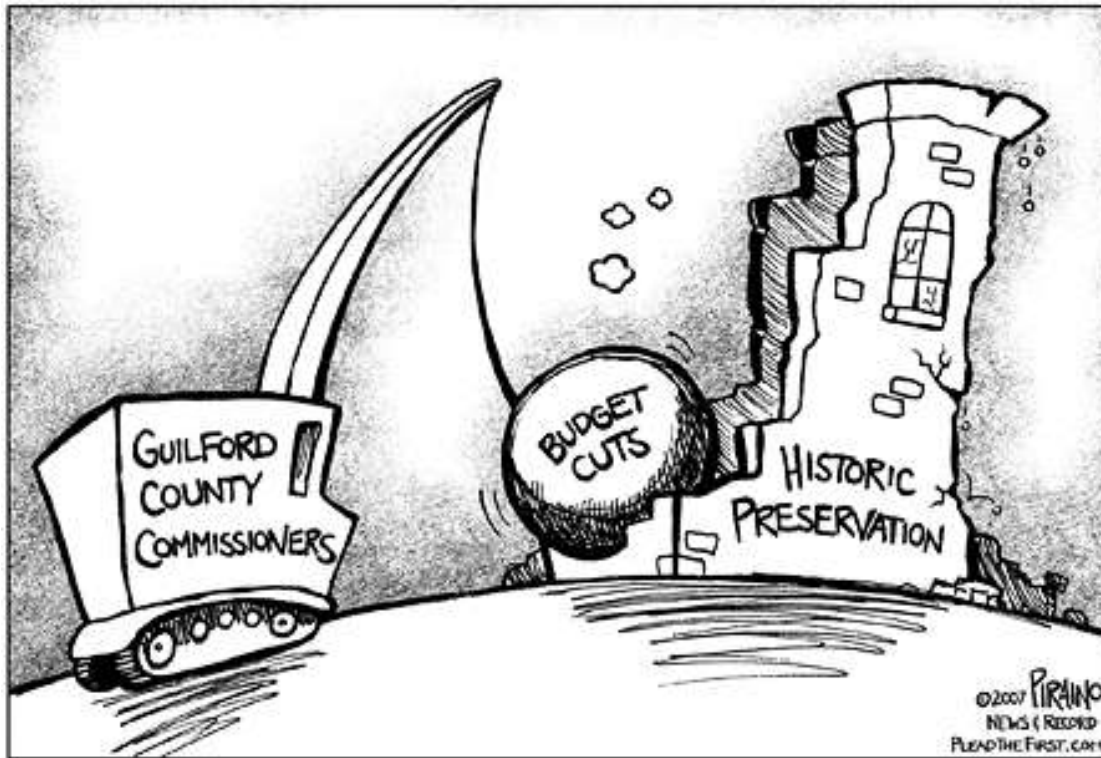
- Doel
- Architectuur
- Gelaagd Metadata Model
- Premis OWL
- Services

# Doelstellingen



A word cloud of astronomical data archives and surveys. The words are arranged in a roughly triangular shape, with 'DublinCore' written vertically in the center. The colors used are black, green, purple, and pink. The words include: FRBR, VRACore, MPEG-7, PREMIS, ISAD-G, GAMA, MARC, SPECTRUM, MARC21, ABC, MODS, CIDOC-CRM, CDWA, ISAAR, EAD, GAMA, MARC, SPECTRUM, MARC21, SMEF-DM, P/META, and DublinCore.

FRBR  
VRACore  
MPEG-7  
PREMIS ISAD-G GAMA MARC  
SPECTRUM MARC21  
ABC MODS CIDOC-CRM CDWA ISAAR  
EAD GAMA MARC  
SPECTRUM MARC21 SMEF-DM  
P/META  
DublinCore



Interpretatie  
v/h Formaat

Bit errors & Bugs

Bestandsformaat  
wijzigingen

Technologische  
wijzigingen

Organisatorische  
wijzigingen

Tijd



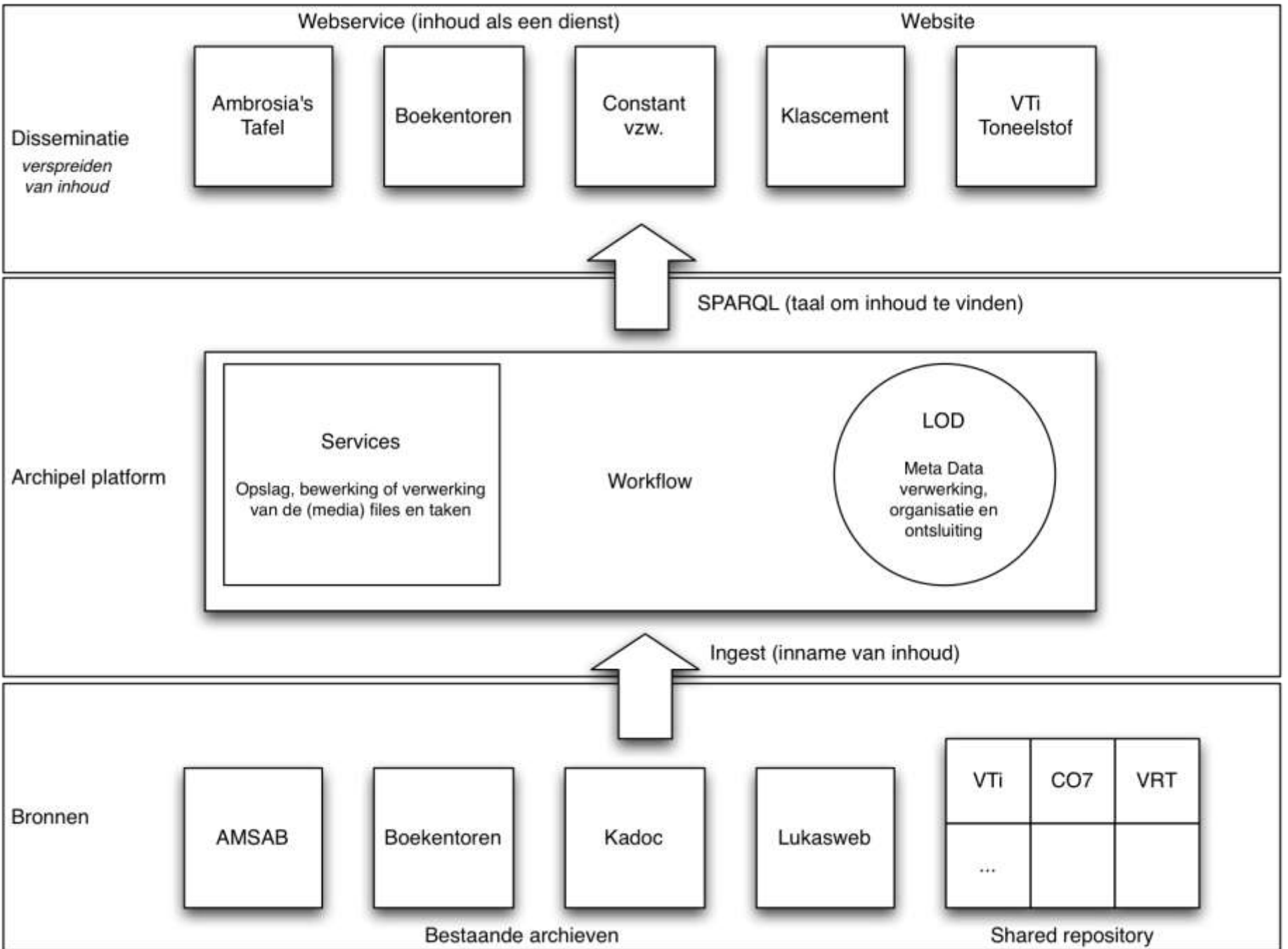
Help to keep our monuments fresh. Account for donations 30 55555

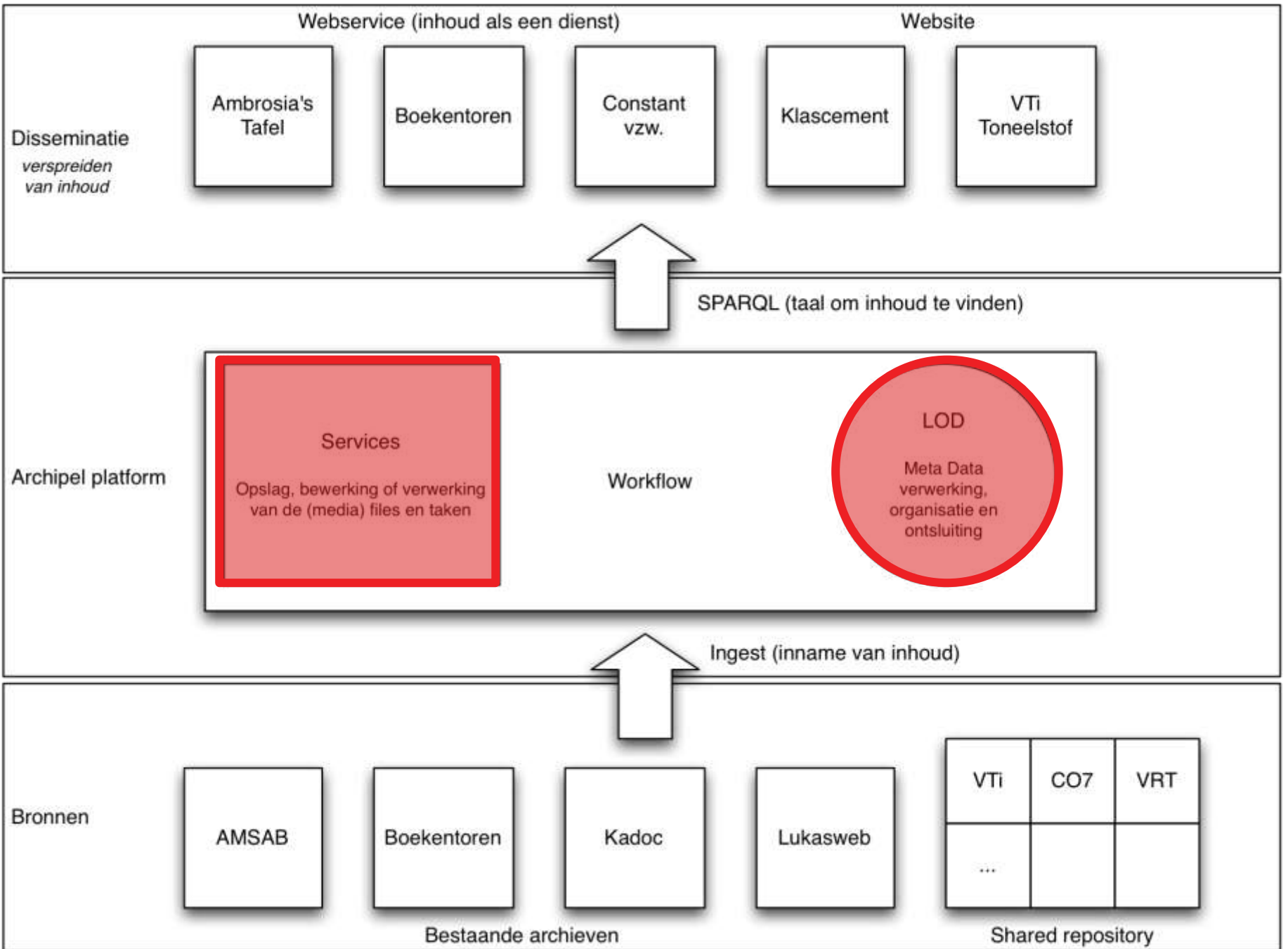


German Foundation  
for the Preservation of  
Historic Monuments

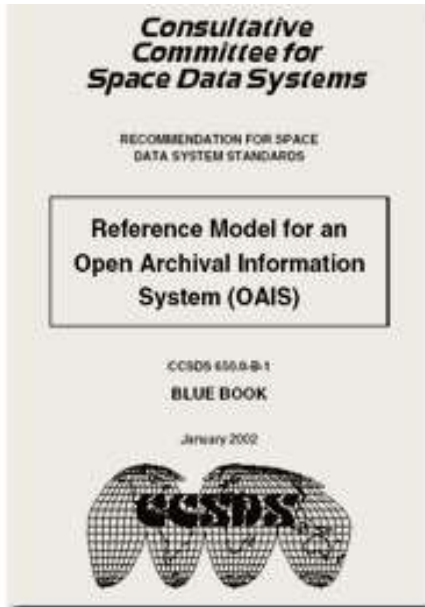
# Architectuur



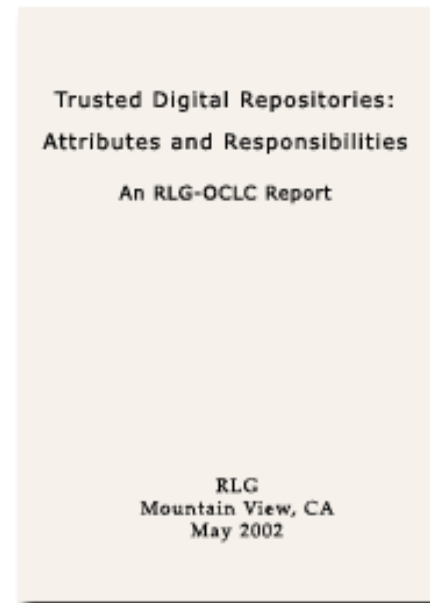




# Architectuur



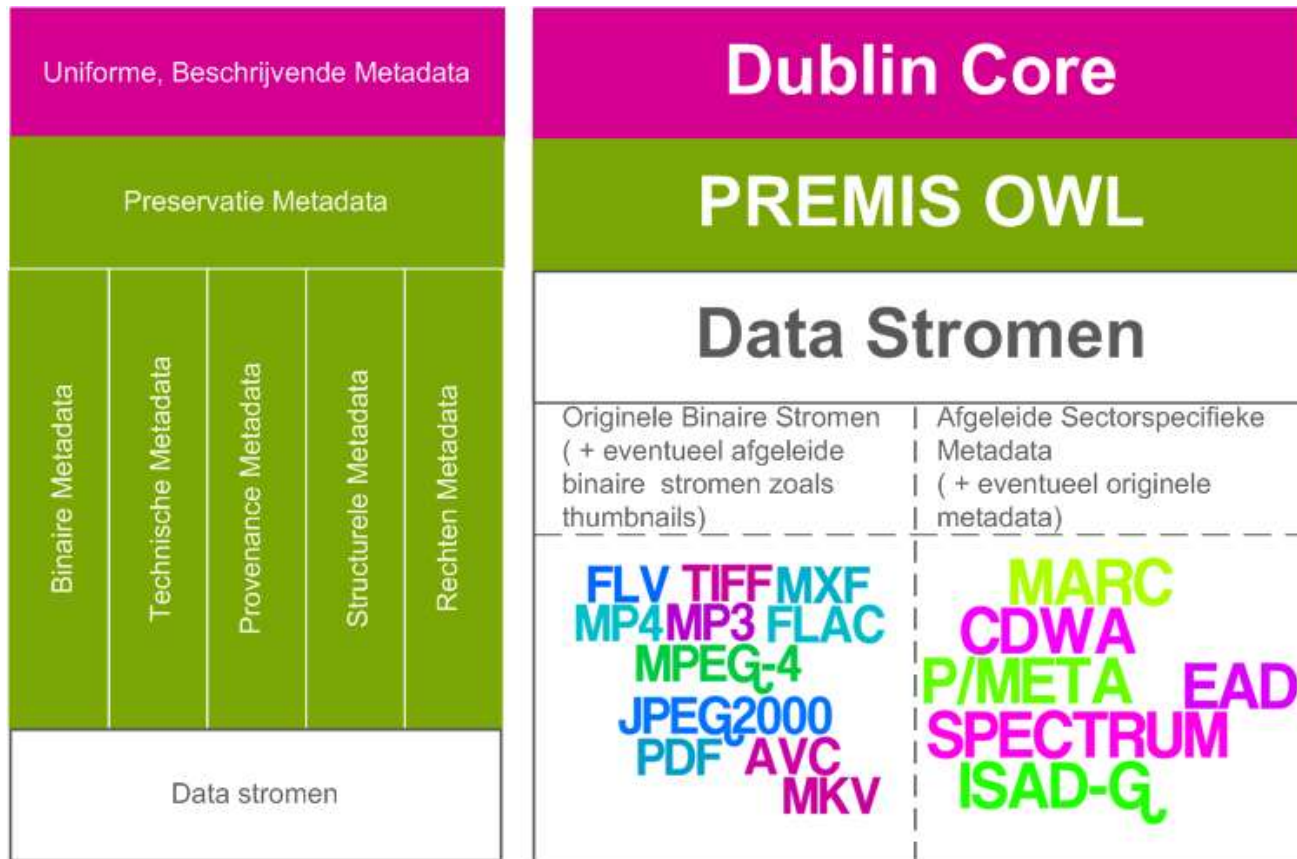
- OAIS:
  - Referentie Model voor een Open Archival Information System
  - ISO standaard 14721



- TDR:
  - Organisatorische Context voor digitaal preservatie programma
  - OAIS

# Gelaagd Metadata Model

# Gelaagd Metadata Model



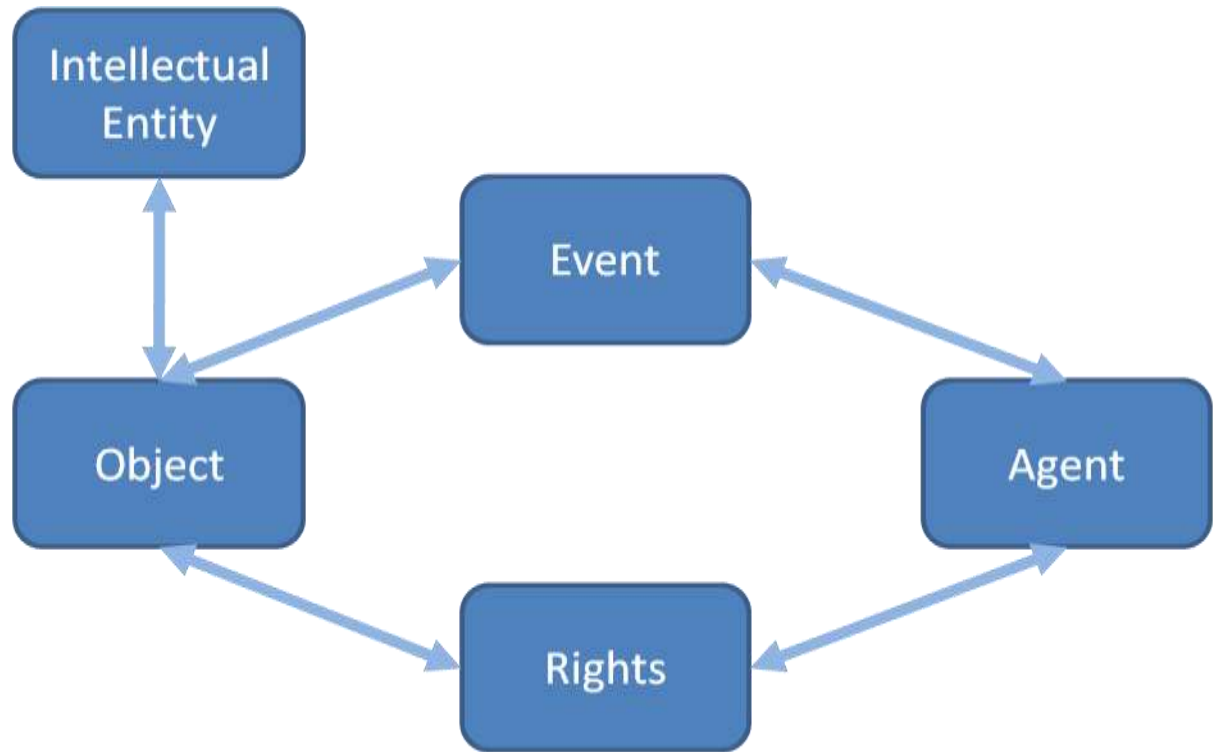
Gepubliceerd Online:

<http://multimedialab.elis.ugent.be/users/samcoppe/ontologies/Premis/premis.owl>

Documentatie Online:

<http://multimedialab.elis.ugent.be/users/samcoppe/ontologies/Premis/index.html>

# PREMIS



# PREMIS OWL

Semantische implementatie van de PREMIS 2.1 Data Dictionary.

Kan gebruikt worden om preservatie informatie te publiceren als Linked Open Data.

Gelinkt aan de preservatie vocabularies van het LOC.

Namespace:

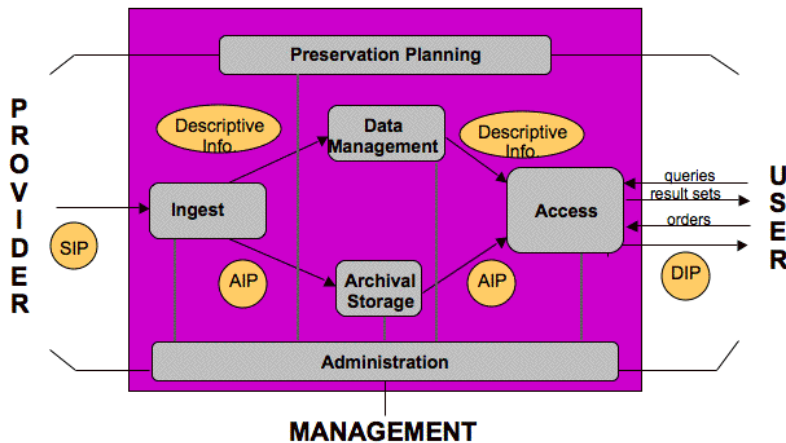
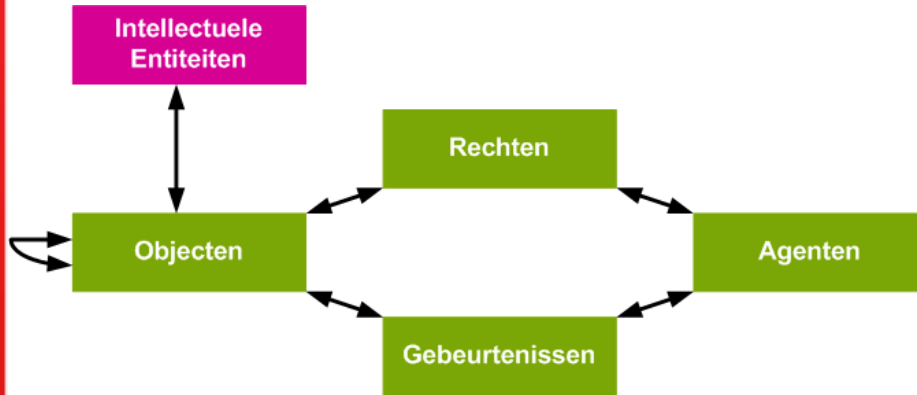
<http://multimedialab.elis.ugent.be/users/samcoppe/ontologies/Premis/premis.owl>

Ondergaat een standardisatie proces:

Archipel – LOC – BNF

Zal weldra aangekondigd worden door het Library of Congress en naar een LOC namespace verhuizen.

# Gelaagd Metadata Model

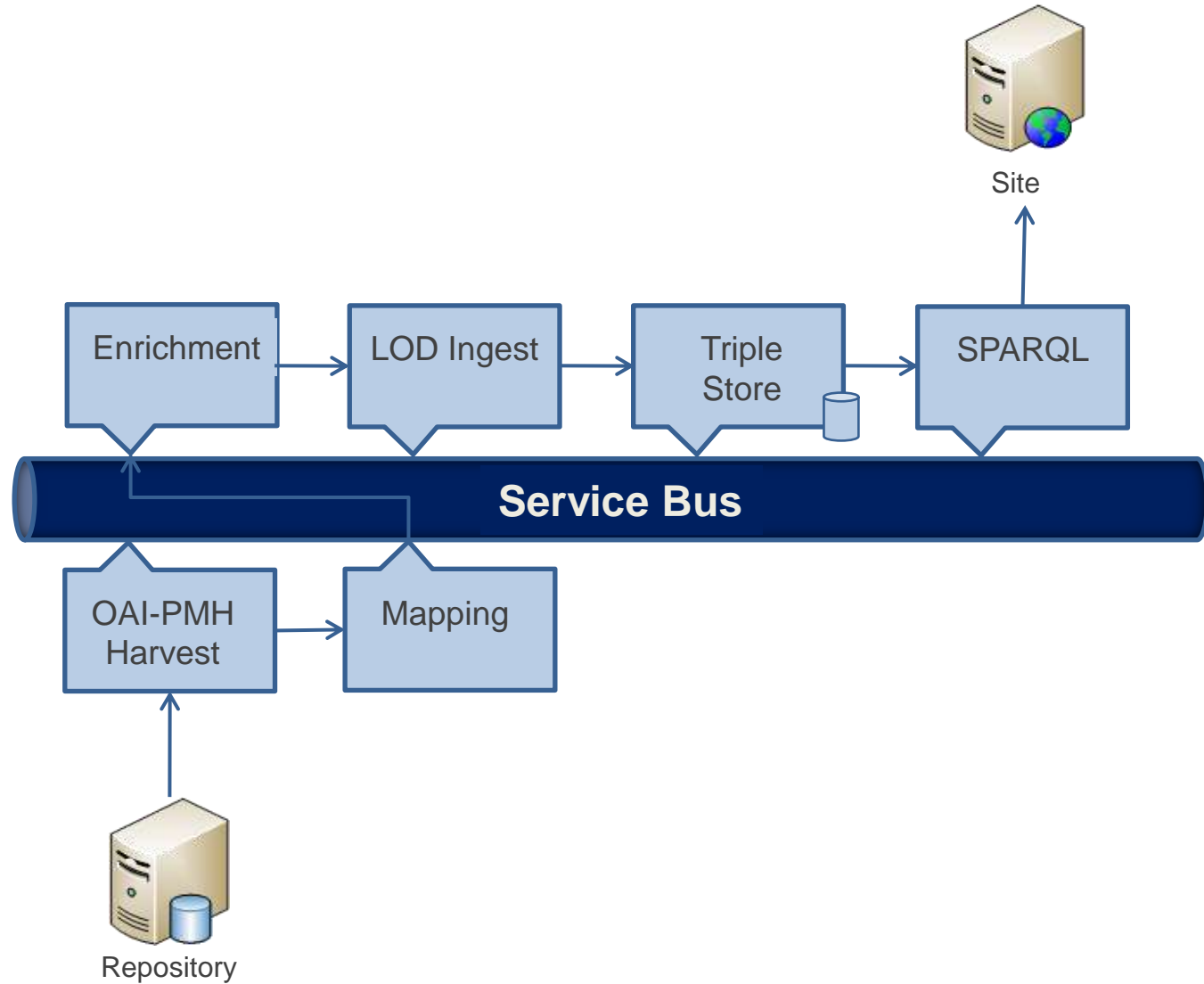


<b>Dublin Core</b>	
<b>PREMIS OWL</b>	
<b>Data Stromen</b>	
Originele Binaire Stromen ( + eventueel afgeleide binaire stromen zoals thumbnails)	Afgeleide Sectorspecifieke Metadata ( + eventueel originele metadata)
<b>FLV</b> <b>TIFF</b> <b>MXF</b> <b>MP4</b> <b>MP3</b> <b>FLAC</b> <b>MPEG-4</b> <b>JPEG2000</b> <b>PDF</b> <b>AVC</b> <b>MKV</b>	<b>MARC</b> <b>CDWA</b> <b>P/META</b> <b>EAD</b> <b>SPECTRUM</b> <b>ISAD-G</b>

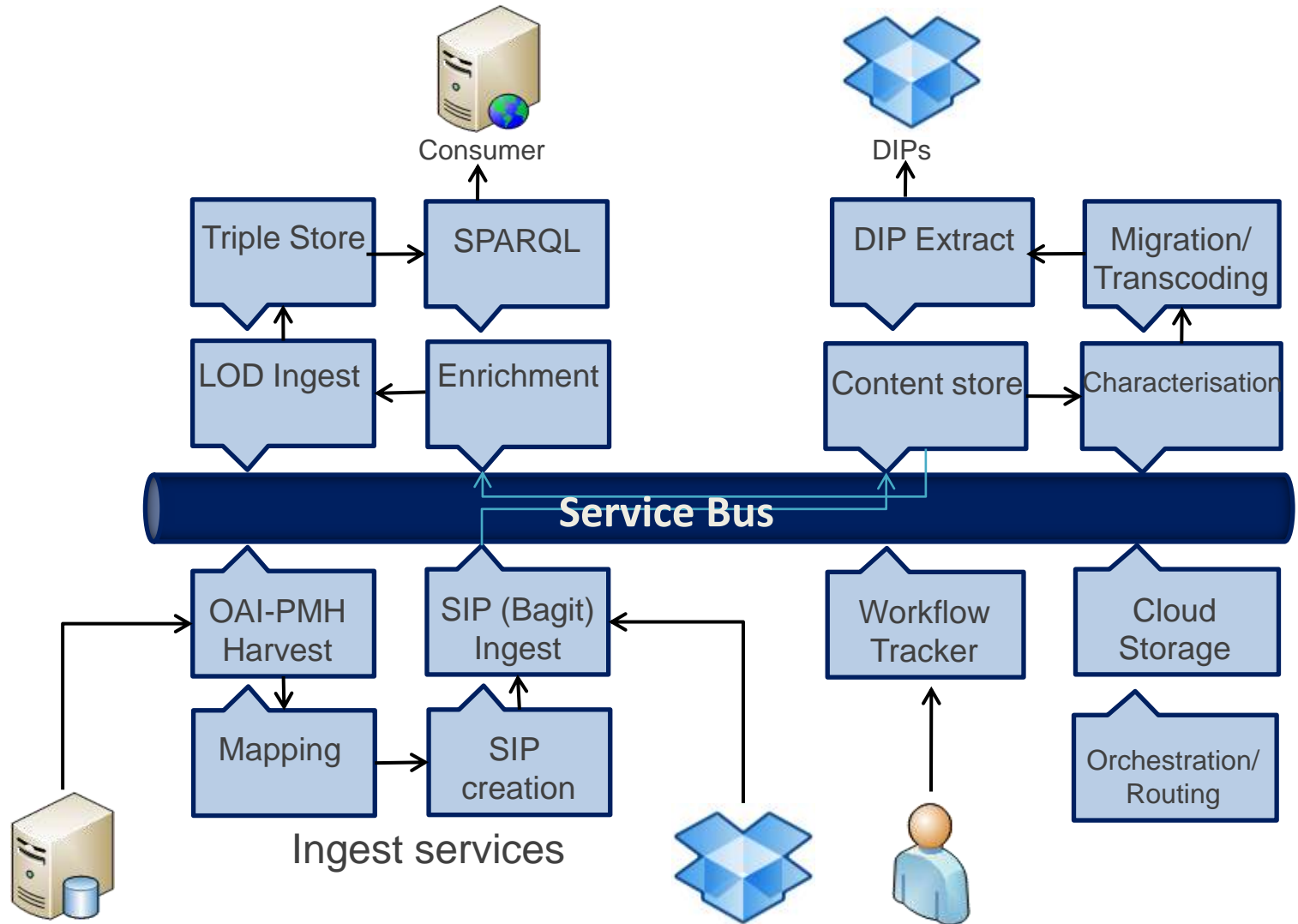


# Services

# Disseminatie Workflow



# Preservatie Workflow





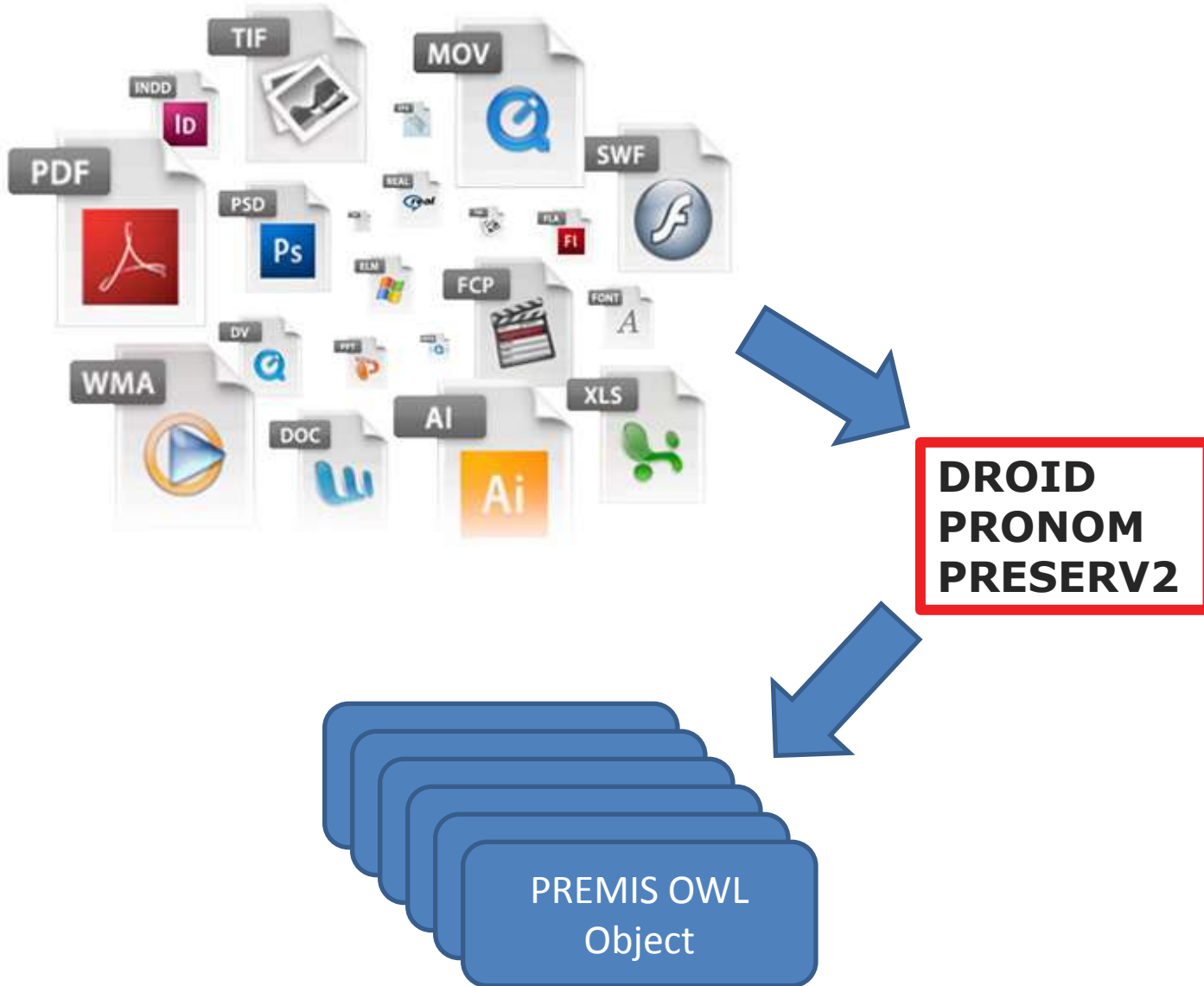
# Ingest

## BagIt

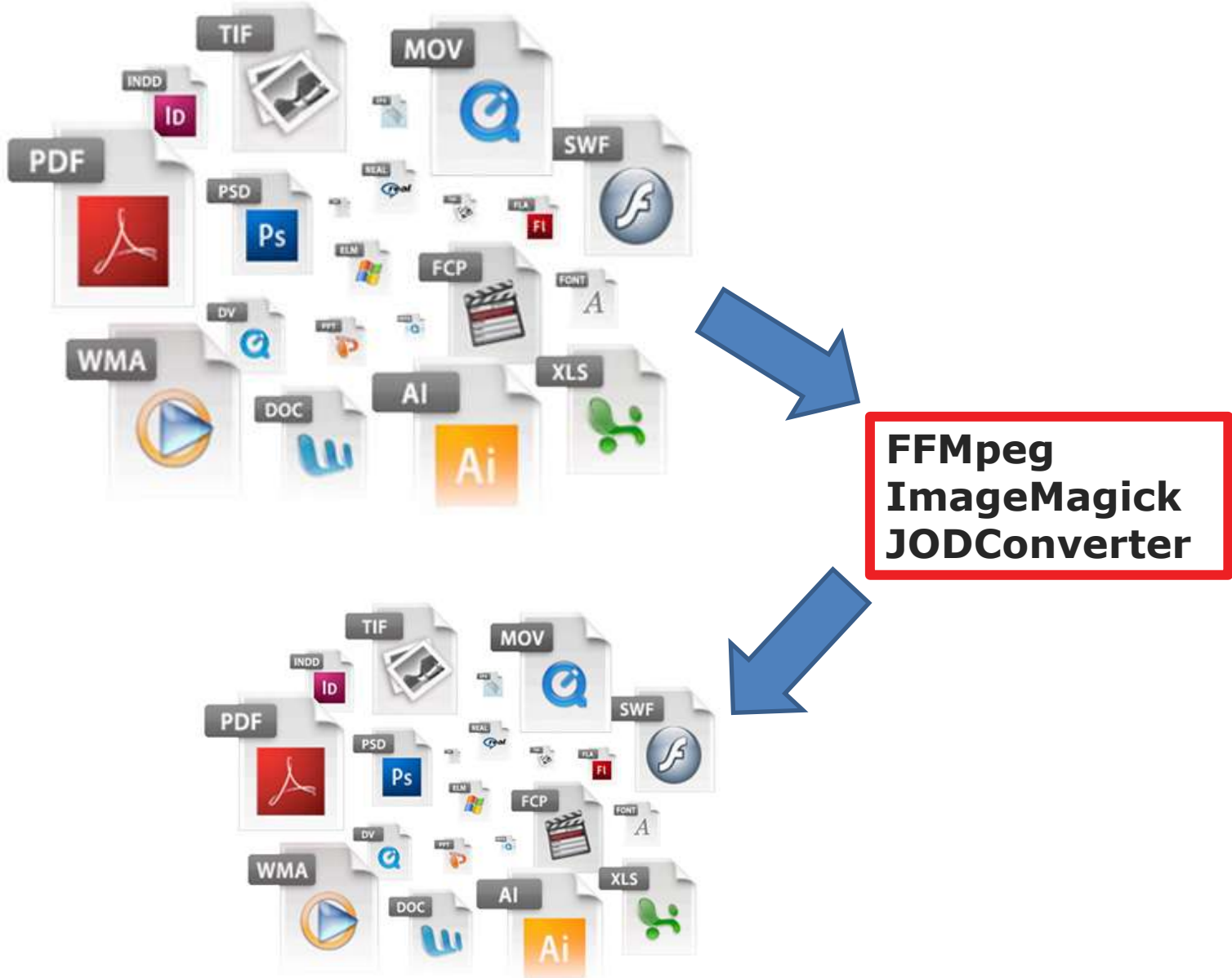


```
/
-bagit.txt
-bagit-info.txt
-manifest-md5.txt
-tagmanifest-md5.txt
-metadata.xml
-data/
-----multimedia files
      (b.v. image.tif)
```

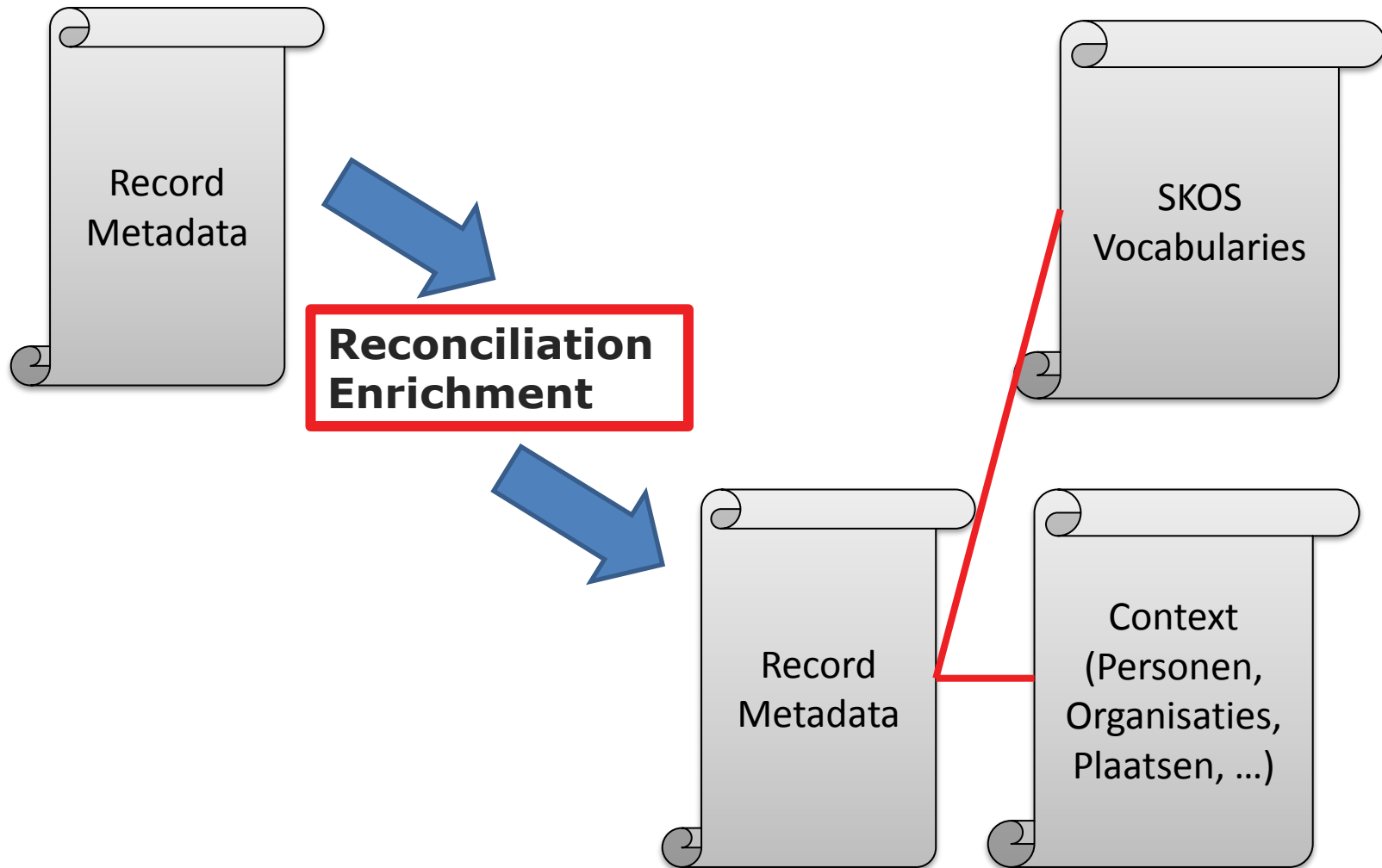
# Characterisatie



# Transcodering



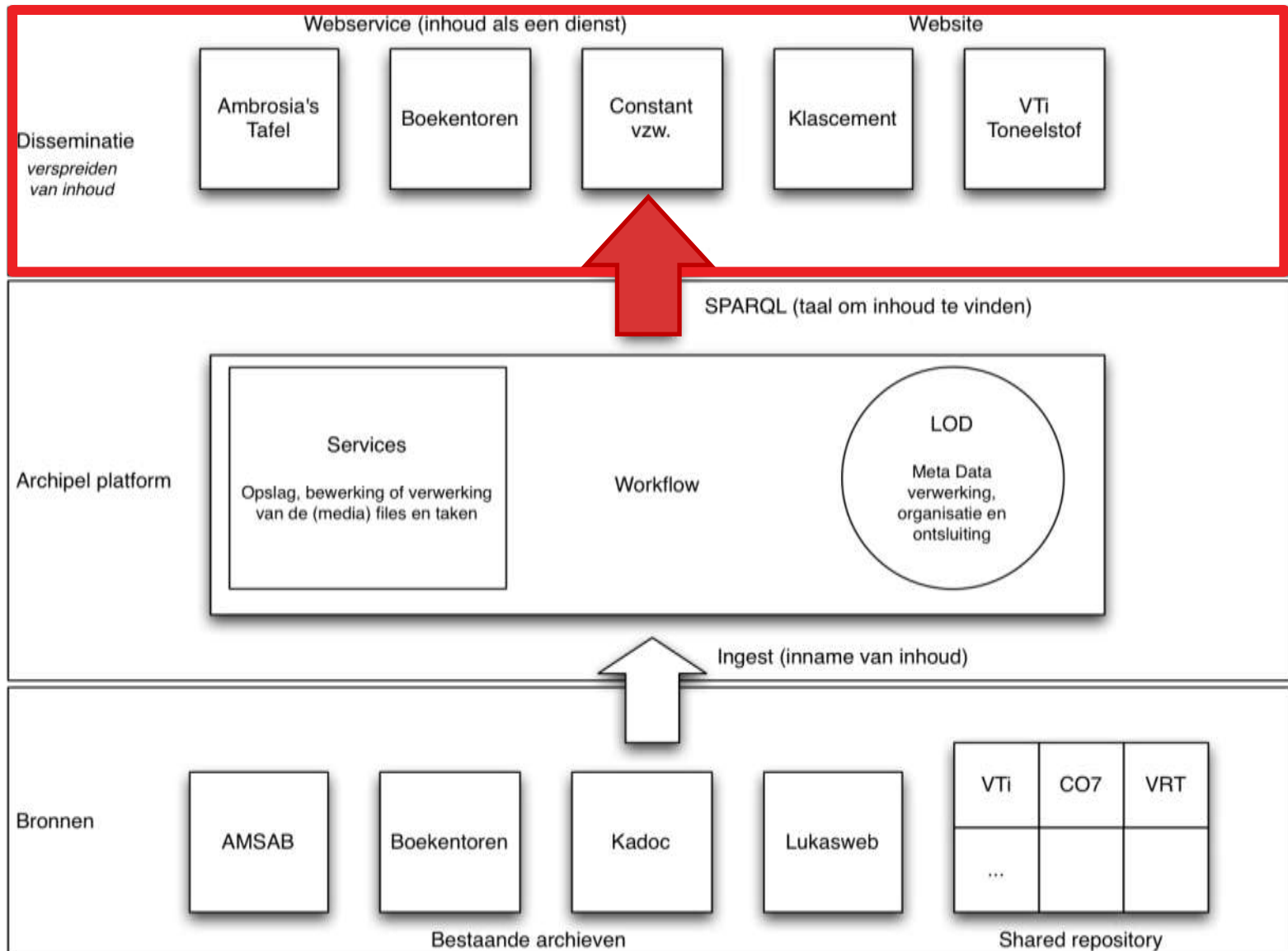
# Herconcordiatie + Verrijking







# Disseminatie





# Questions?

## SLOWPOKE

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