



Digital Long-Term Preservation using a Layered Semantic Metadata Schema of PREMIS 2.0

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■ Survey

- Introduction to BOM VI
- Problems & Risks
- Layered Metadata Model



INTRODUCTION TO BOM-VL

■ Introduction to BOM-VL

- Flemish project – 1.5 years
- Cross sectoral: broadcasters, archival institutions, cultural sector and the libraries.
- **Studies:**
 - Needs for preservation
 - Selection
 - Metadata standards & exchange formats
 - Digital rights
 - Supply and distribution models
- → **Common innovation platform**



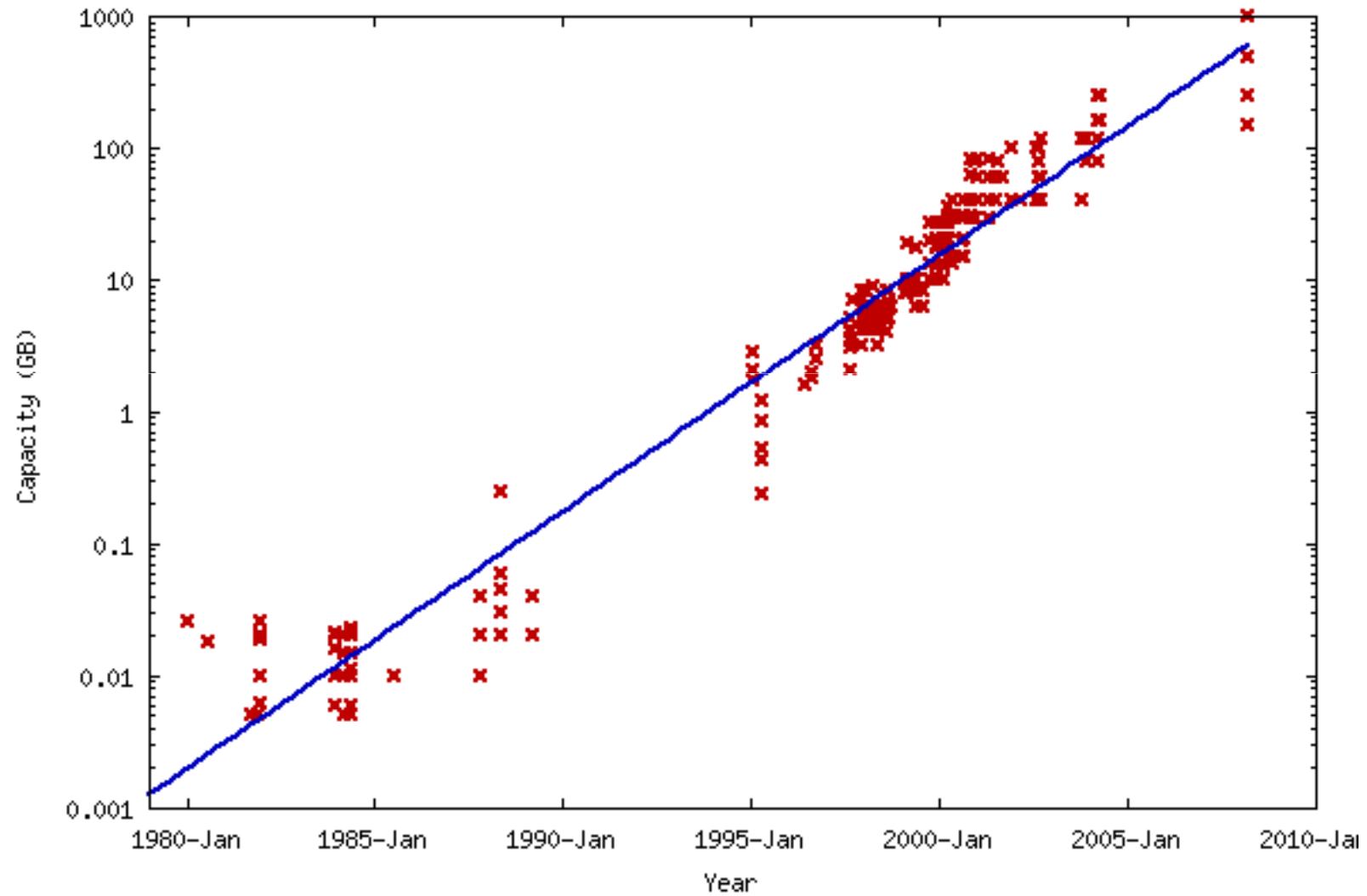
PROBLEMS & RISKS



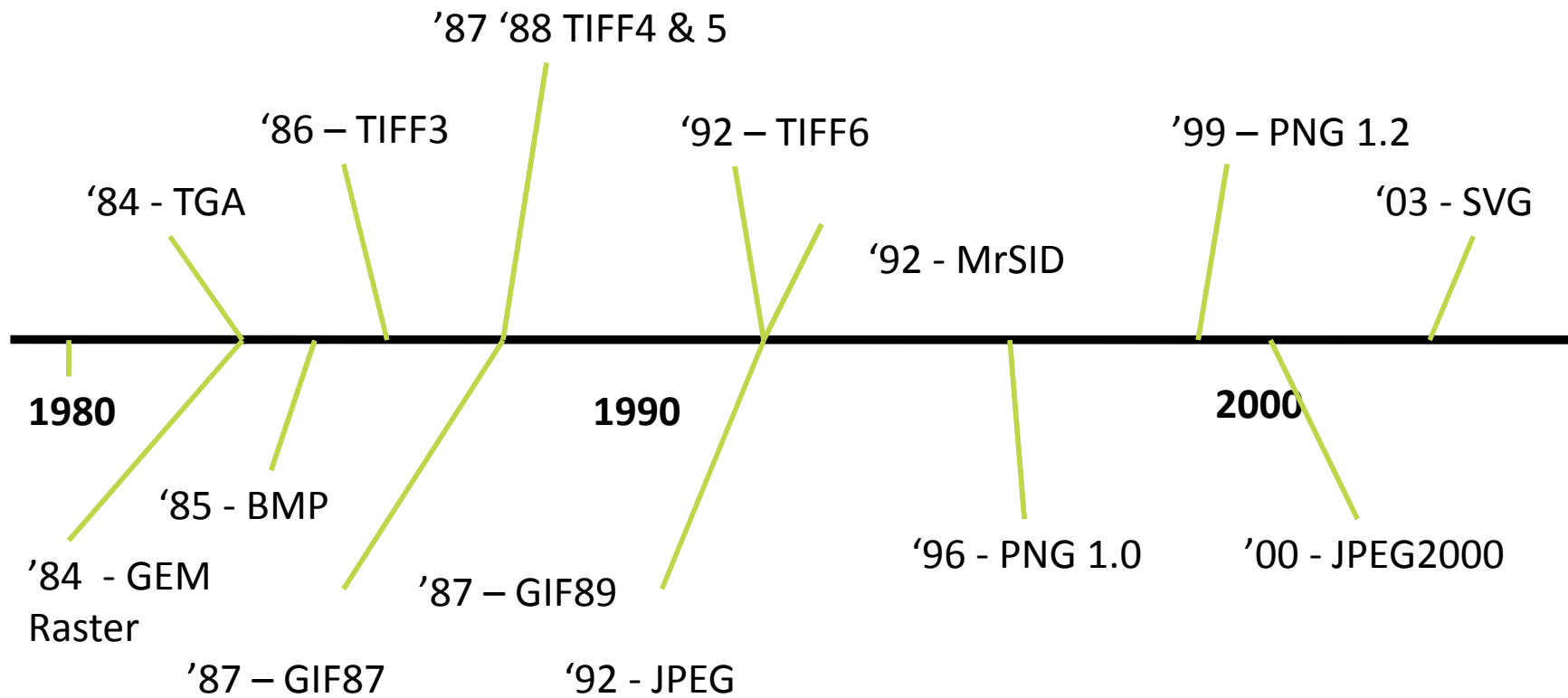
■ Problems & Risks

- **Analogous formats are disappearing** and have to be replaced by digital alternatives.
- Quick **growth** of data.
- **Discrepancy** between the short life span of digital technology and the need for longterm archiving.
- The information has to be preserved, not the medium.

Problems & Risks

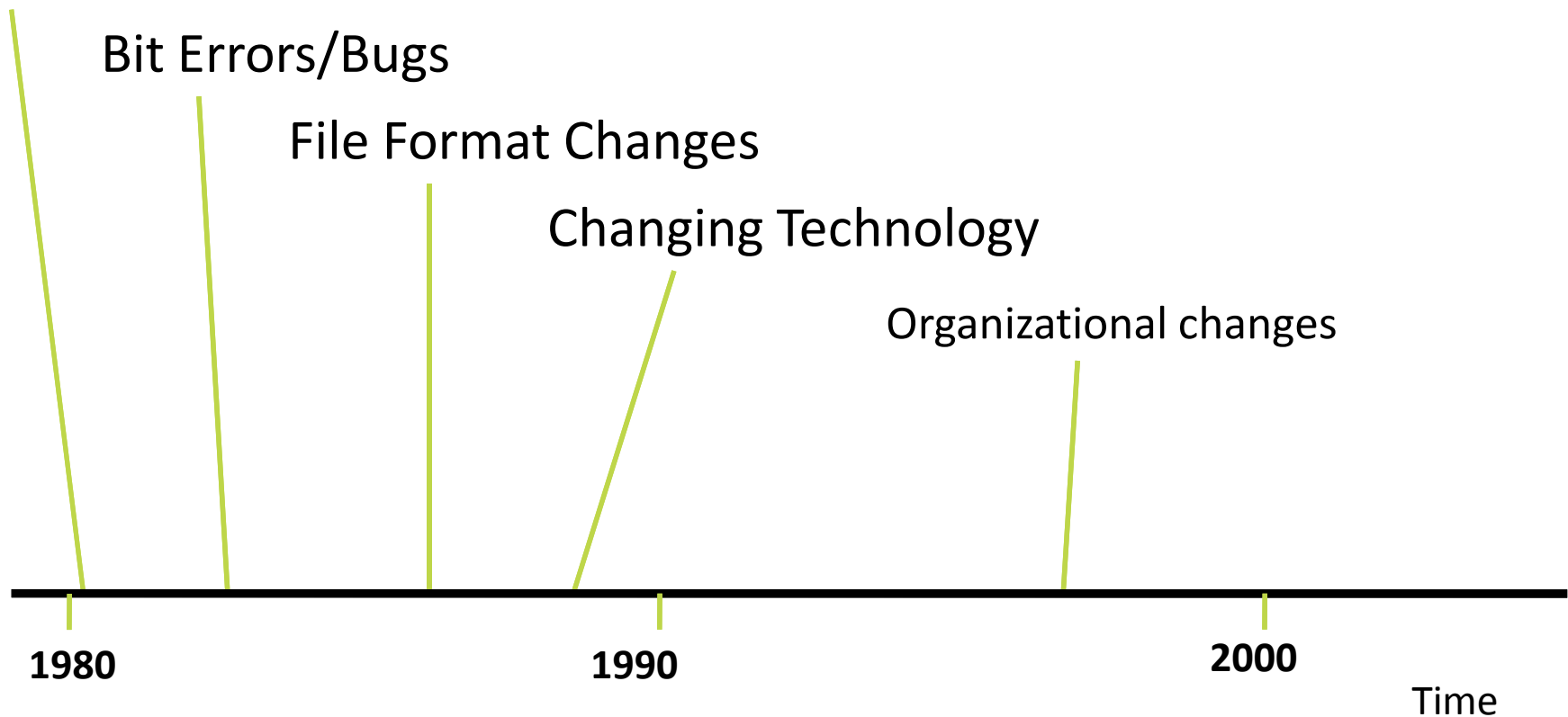


Problems & Risks



Problems & Risks

Interpretation of the format





LAYERED METADATA MODEL



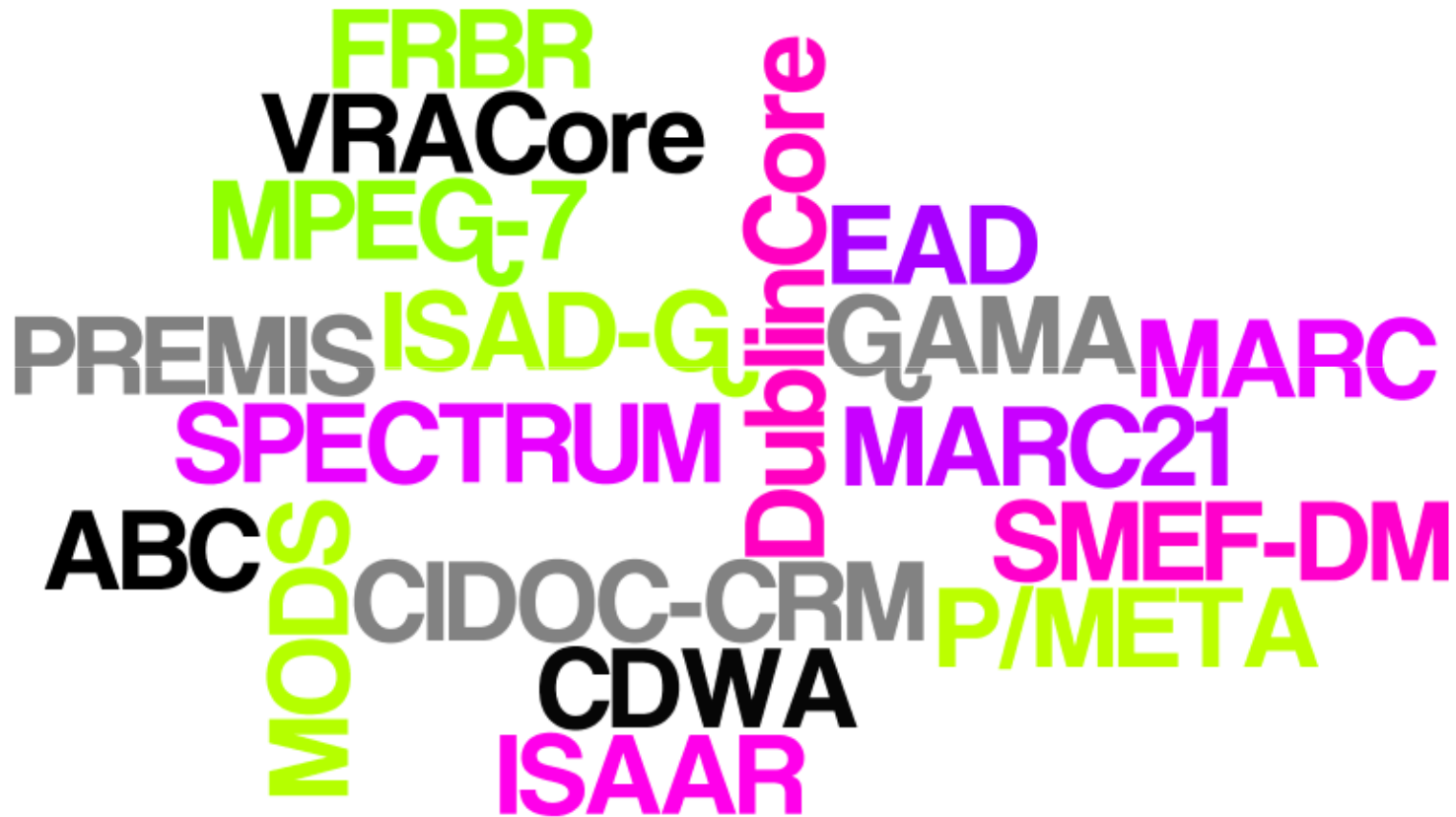
■ Layered Metadata Model

- Digital long-term preservation ~ risk management

→ Metadata to the rescue:

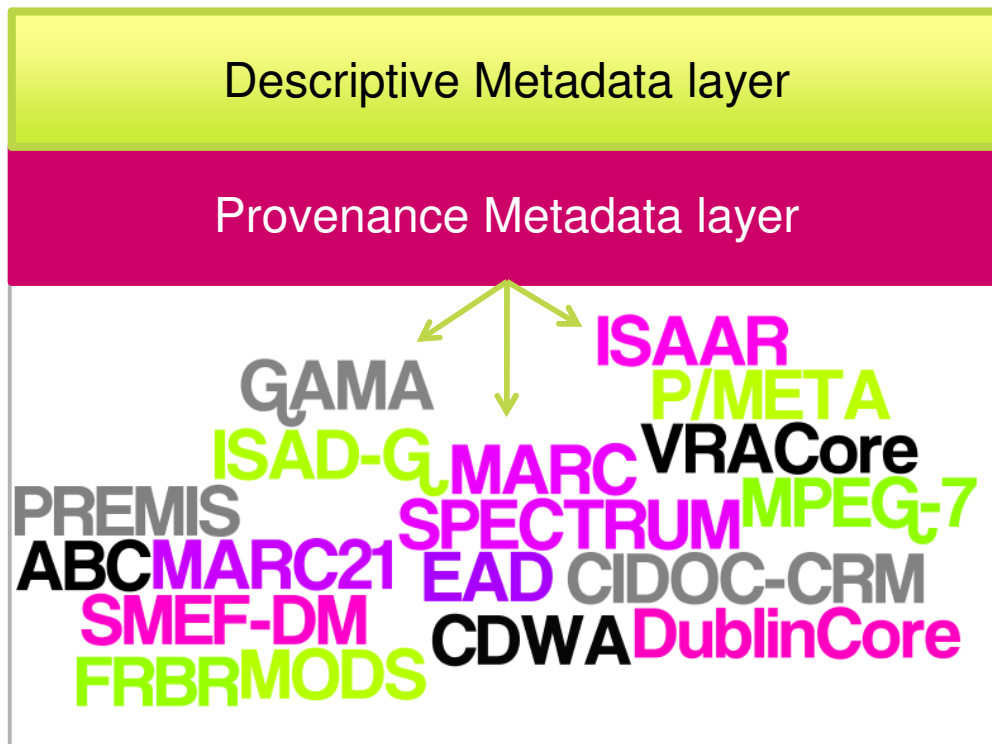
- Descriptive metadata
- Preservation metadata
- Technical metadata
- Rights metadata

■ Descriptive metadata



■ Descriptive Metadata Layer

- Result:



Dublin Core used as pidgin:

- DC as common layer above the own metadata.
- DC as model for querying.
- Discovery and identification of digital objects.

Provenance: reference to the original metadata

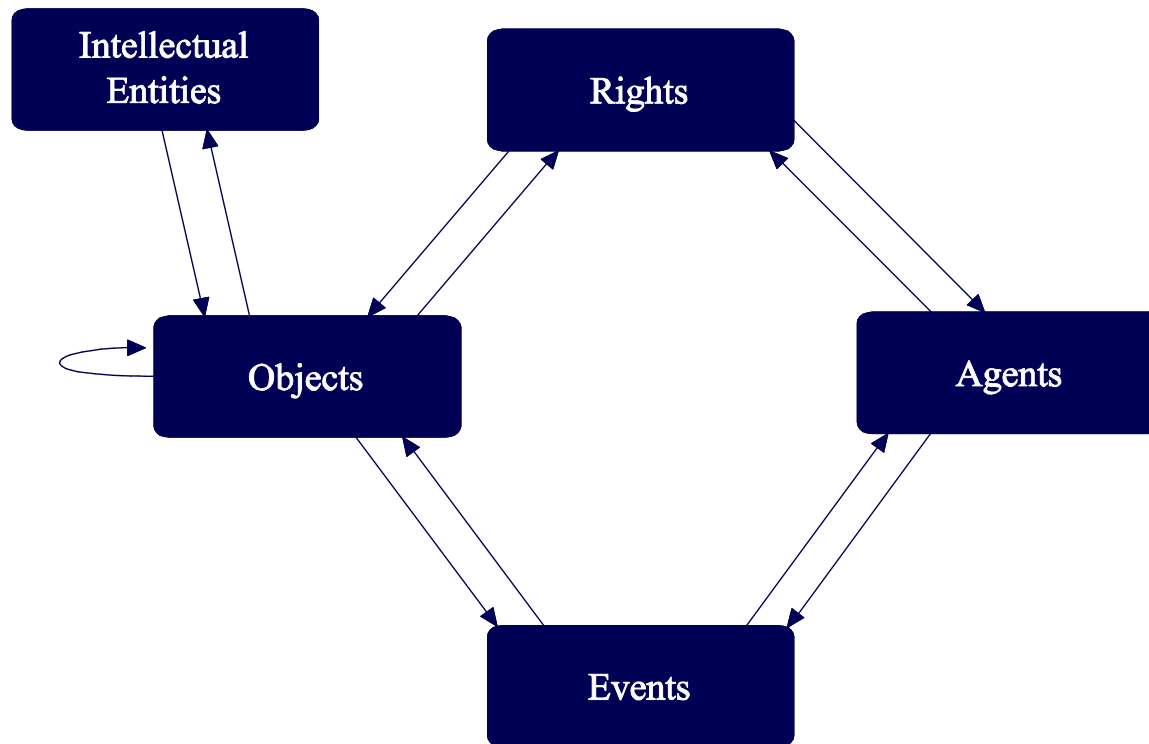
Original metadata: stored as data

■ PREMIS Layer

- Rights Metadata
→ assisting in the management of the digital objects.
- Technical metadata
→ assisting the access (conversions or emulation).
- Preservation Metadata
→ Tracking the provenance – history of all actions on an object.

PREMIS Layer

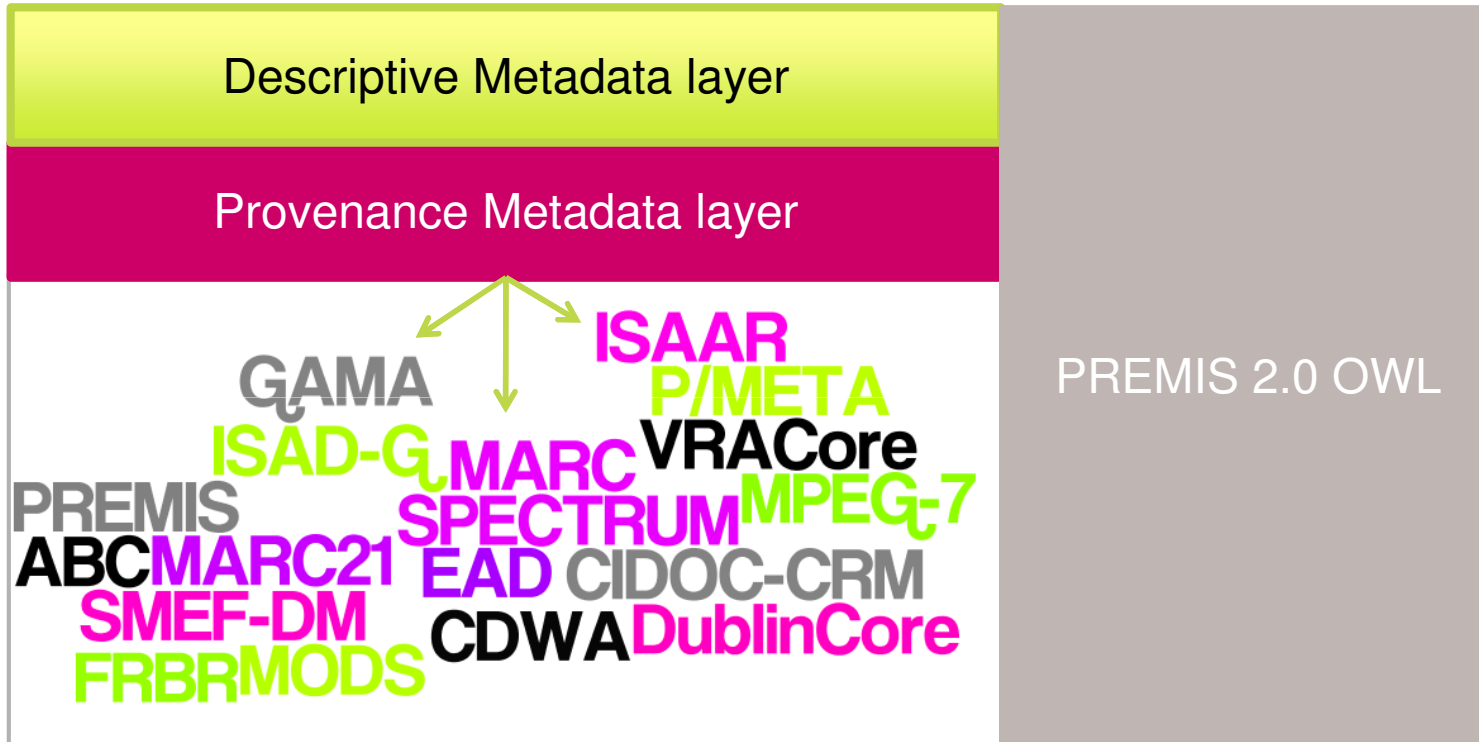
Preservation Model: PREMIS



■ PREMIS Layer

- PREMIS OWL:
 - Semantic (OWL) ontology following the data dictionary of PREMIS 2.0.
 - Published Online:
<http://multimedialab.elis.ugent.be/users/samcoppe/ontologies/Premis/premis.owl>
 - Documentation Online:
<http://multimedialab.elis.ugent.be/users/samcoppe/ontologies/Premis/index.html>

Conclusion



■ Want to know more?

- **BOM-VL website**

<http://www.bom-vl.be>

- **Book (in dutch):**

“(Meta)datastandaarden voor digitale archieven” full-text available book, Bastijns, Paul; Coppens, Sam; Corneillie, Siska; Hochstenbach, Patrick et al. , (2009);

<http://hdl.handle.net/1854/LU-480734>

- **Deliverable Layered metadata model:**

<http://hdl.handle.net/1854/LU-764194>