Choosing metadata standards for a digital library system

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What is this presentation all about?

- National Library of Latvia is developing a Digital Library
- Existing digital collections:
  - Newspapers
  - Posters
  - Maps
  - Postcards

  Lots of files!
  Almost no metadata!

- Collection size:
  - Currently: ~300 000 files
  - In the future: **millions/tens of millions files**

Example of a digital object

Another example

Pilns apraksts

Uzvārds, vārds (oriģinālrakstībā): Aspazija (Aspazija)
Dzimšanas datums: 1865-03-16
Miršanas datums: 1943-11-05
Nodarbošanās: Dzejniece
Autora vārds (oriģinālrakstībā): ()
Autora dzimšanas datums:
Autora miršanas datums:
Autora nodarbošanās: Fotogrāfs
Portreta datējums: Pirms 1905.
Šifrs: LNB RXA356, 1567, 3.lp.
Attēla tips: Fotogrāfija.
Oriģināla izmēri (cm): 14x9 cm
Piezīmju lauki:
Ar uzrakstu "47/2 Fr.W.S.i.R" un "Aspasija".
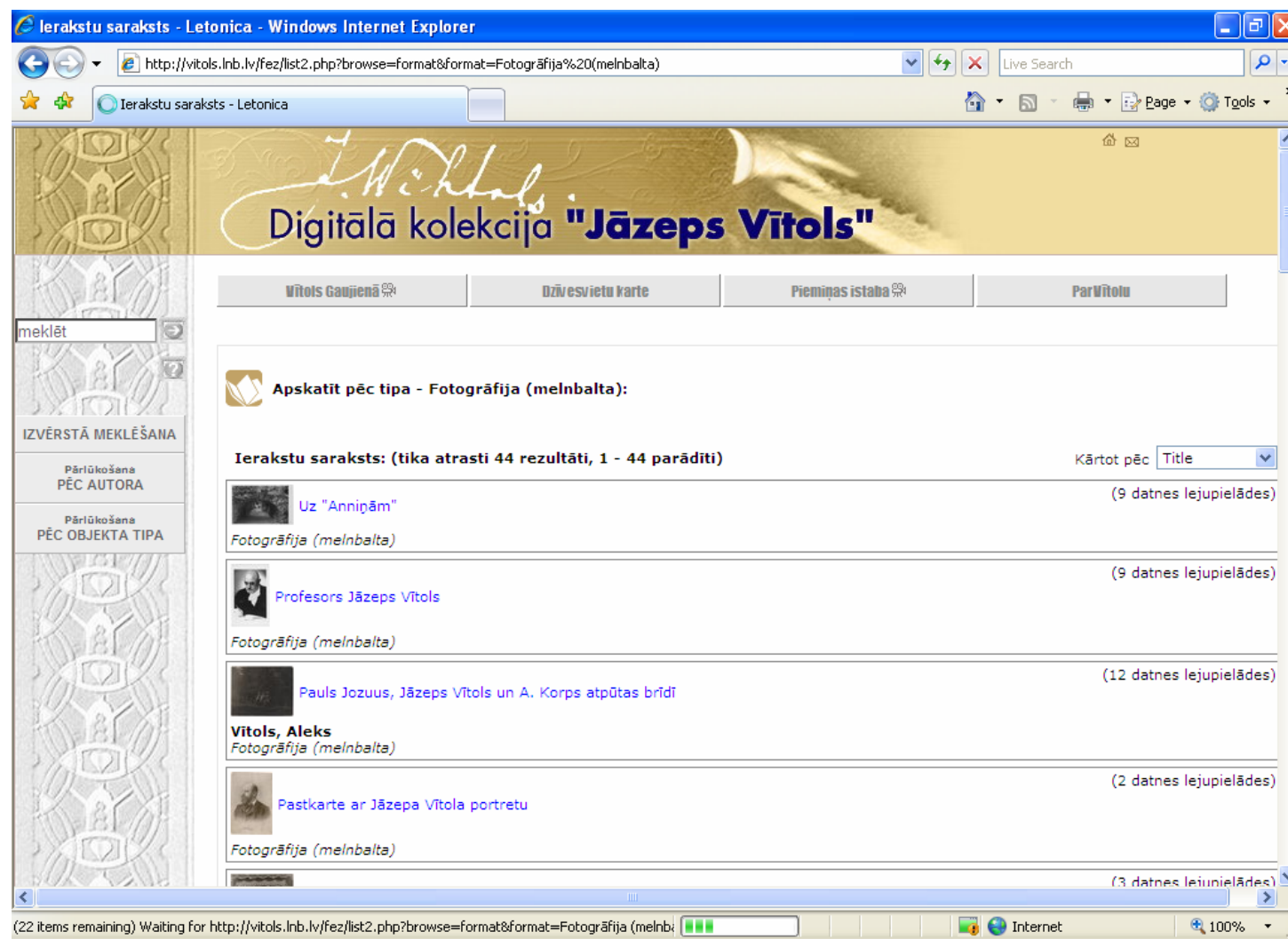No J. Pijola rokrakstu fonda.

Atpakal

Minimal metadata

Current problems

- Collections are browsable, but not searchable
- Little amount of information about digital objects
- Little or no integration possibilities:
  - Among collections
  - With European digital libraries (TEL project)

DOMS

- Digital Object Management System (DOMS) in NLL
  - Metadata entry form – an integral part of every DOMS

- Currently
  - HTML-based pages (most collections)
  - Open-source software: **FEDORA/Fez** (1 collection, few collections in development)

- In the future
  - Custom-developed **DOM system**

FEDORA / Fez

FEDORA / Fez

Dublin Core-based metadata

FEDORA / Fez

FEDORA / Fez

- FEDORA / Fez
  - *Dublin Core*-based metadata
  - MODS – the future posibility

- FEDORA allows customizing metadata schemas
  - Adding new metadata elements
  - Setting repeatability, data types, pre-defined values, etc.

Dublin Core + specific metadata elements

- *Dublin Core* is:
  - The most convenient metadata standard for digital libraries
  - …but it's not enough!

- Our solution
  - Dublin Core specifies the fundamental metadata elements
  - Additional metadata elements have been defined for every format

Dublin Core + specific metadata elements

Dublin Core metadata

+ **+** **+**

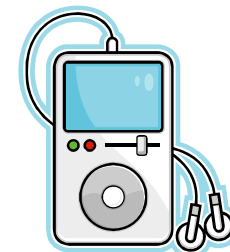| Image metadata		Maps metadata		Audio metadata	...

- Image resolution
- DPI
- …

- Coordinate system
- Type of the map
- Regions covered
- …

- Bit rate
- Coding algorithm
- …

Metadata for digital library users

A user requesting
information about
an image

Dublin Core metadata

+

Image metadata

Maps metadata

Audio metadata

...

Dublin Core + specific metadata elements

The European Digital Library

↑ Recieves the basic Dublin Core elements
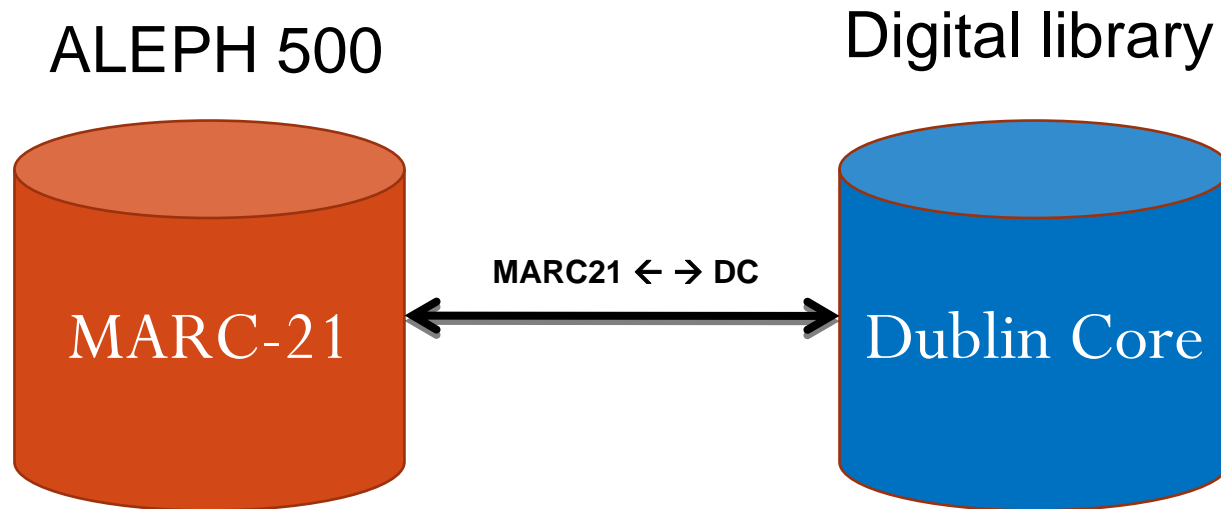
Dublin Core metadata

Image metadata   Maps metadata   Audio metadata ...

Digital Library and electronic catalogue

- We plan to integrate Digital Library with the electronic catalogue

ALEPH 500

Digital library

MARC-21

MARC21 ← → DC

Dublin Core

Q & A

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