

# BHL

Biodiversity Heritage Library

## EUROPE



co-funded by the  
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*eContentplus*

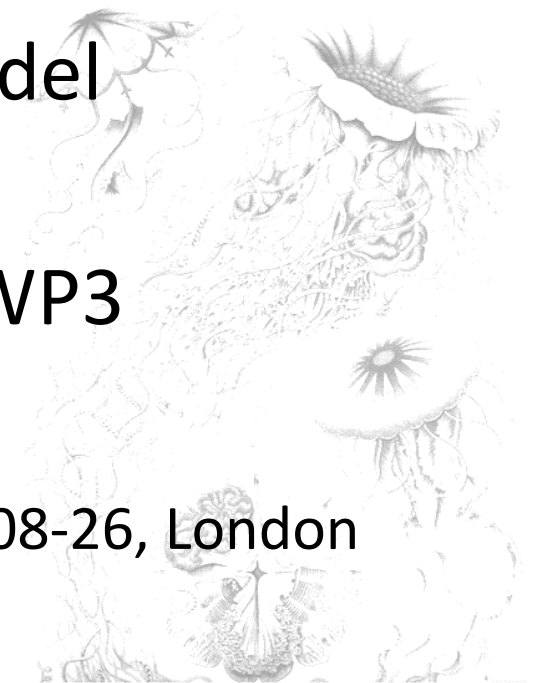


europaena  
project group  
member

## BHL-E Tech Group Meeting

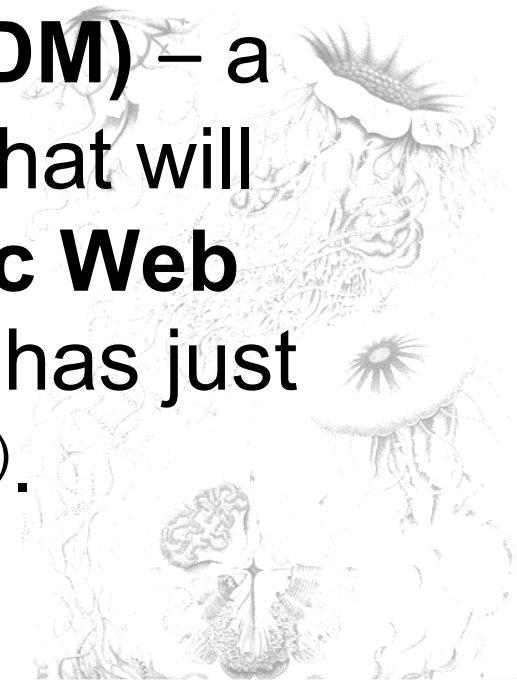
EDM – Europeana Data Model  
Walter Koch  
member of Europeana-V1/WP3

2010-08-26, London



# A richer data model for Europeana

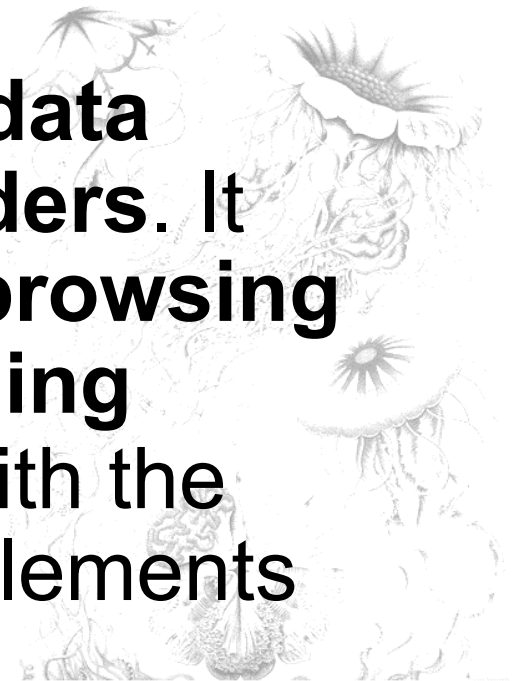
The **Europeana Data Model (EDM)** – a new way of **structuring data** that will bring the **benefits of Semantic Web** technology to Europeana.eu – has just been published (2010-08-13) <sup>1)</sup>.



1) Purday, Jonathan (by email)

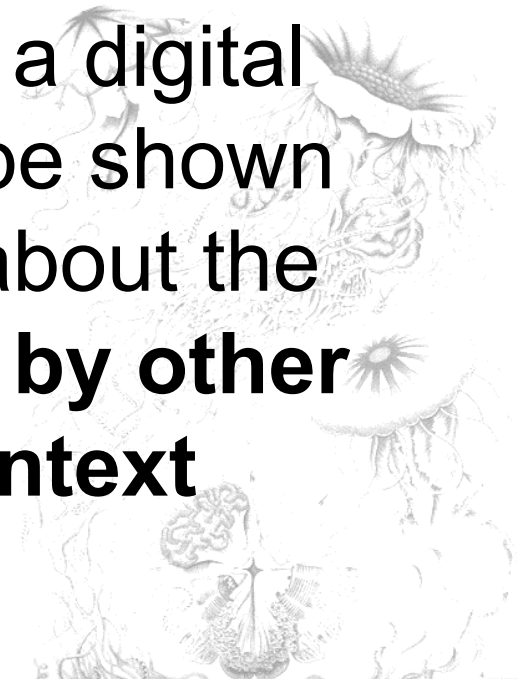
# A richer data model for Europeana

The release of the EDM indicates a **qualitative change** in the way Europeana will deal with **metadata gathered from content providers**. It will open up the possibility for **browsing Europeana in new and revealing ways** which are not possible with the current Europeana Semantic Elements data model.



# A richer data model for Europeana

For example, the EDM will allow a digital **object from one provider** to be shown **alongside a relevant article** about the object or a **thesaurus offered by other institutions**, offering **more context and information** for users.

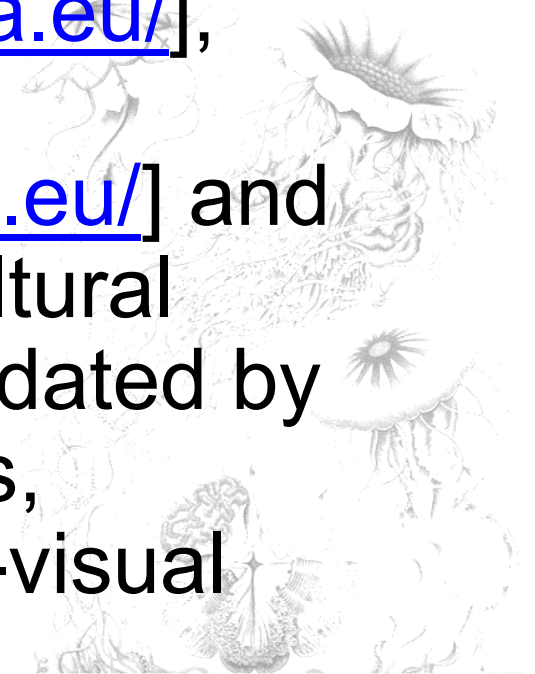


# A richer data model for Europeana

Once Europeana starts receiving content formatted using the EDM next year (2011), it will also enable the use of **linked data**, which allows **connections to be made between search terms**. With linked data, a search for the "**Virgin Mary**" could lead to results not just for that single term, but also to objects labelled as "**Mary, Mother Of Christ**", "**the Blessed Virgin**" or "**Heilige Maria**".

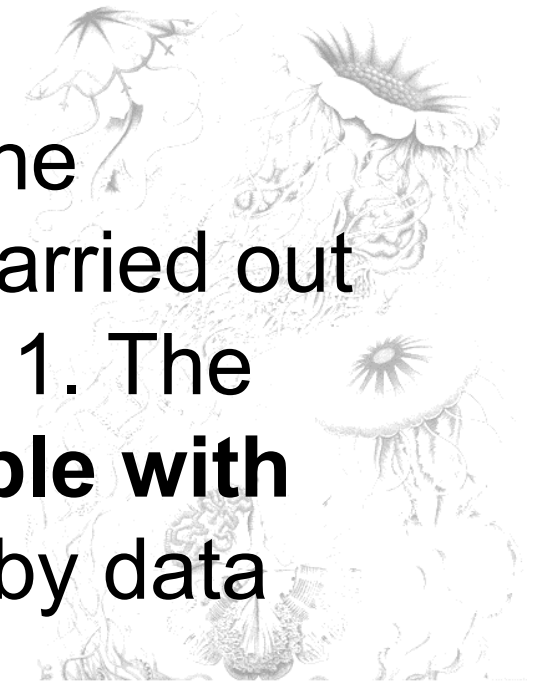
# A richer data model for Europeana

Developed by members of **Europeana v1.0** [<http://version1.europeana.eu/>], **EuropeanaConnect** [<http://www.europeanaconnect.eu/>] and experts from academic and cultural circles, the EDM has been validated by technical specialists at libraries, museums, archives and audio-visual collections. → continued next slide



# A richer data model for Europeana

This group will continue to make refinements to the EDM over the coming months, as testing is carried out between now and January 2011. The **EDM is backwardly compatible with ESE**, and will start to be used by data providers during 2011.

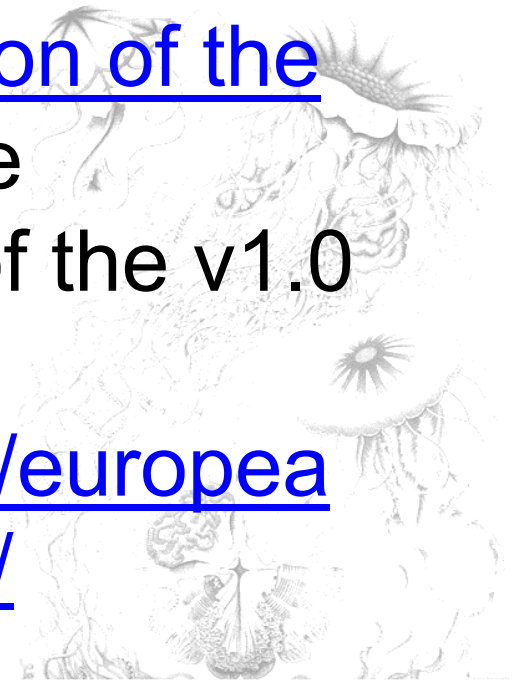




# A richer data model for Europeana

The [EDM Primer](#) and the [Definition of the EDM Elements](#) (v5.2) are in the Technical documents section of the v1.0 website:

<http://group.europeana.eu/web/europeana-project/technicaldocuments/>



# A richer data model for Europeana

Examples:

- Sample 1: DISMARC/eConnect
- Sample 2: EuropeanaLocal



Sample 1

Object: Europeana (ESE) Info

Identifier: LTRF pl 1193 3

Title: Mikita

Title-alternative: The Mikita

Subject: Lithuanian folk song

Genre: šokis

Genre: dance

Contributor: Marija Mizarienė (role: Performer)

Contributor: Z. Slaviūnas (role: Collector)

Date-recorded: 1939

Date-recorded: XX a. ketvirtasis dešimmetis ▶ XX amžius (Vocabulary: dmEras)

Type: Sound

Format: 78 apsisukimų plokštelė ▶ fonografo plokštelė (Vocabulary: dmFormats)

Extent: 00:40 (role: playing time track)

Relation: 2137(71)(Manuscript)

Relation: 2587(124) (Transcription of melody)

is referenced by: Džūkijos dainos ir muzika. 1935–1941 metų fonografo įrašai / Songs and Music from Dzūkijos. Phonograph records of 1935–1941. Sudarė ir parengė / edited by Austė Nakiėnė, Rūta Žarskienė. Vilnius: Lietuvių literatūros ir tautosakos institutas, 2005, p. 114.

Audio: [http://www.dismarc-audio.org/LLTI/LTRF\\_pl\\_1193-](http://www.dismarc-audio.org/LLTI/LTRF_pl_1193-)

Has Sample: <http://www.dismarc-audio.org/LLTVDzukijos.jpg>

Coverage-spatial: Jaujakaimio k.

**Detail View**  
 eConnect  
 Audio Aggregation  
 Platform

**Multilingual  
 vocabulary  
 enrichment**

**Audio File**

**CD Cover**

## Metadata

Sample 1

```

<?xml version="1.0" encoding="UTF-8" ?>
<record xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.europeana.eu/schemas/ese/
  http://www.europeana.eu/schemas/ese/ESE-V3.2.xsd">
  <dc:title>Mikita</dc:title>
  <dcterms:alternative>The Mikita</dcterms:alternative>
  <dc:contributor>Marija Mizarienė (Performer)</dc:contributor>
  <dc:contributor>Z. Slaviūnas (Collector)</dc:contributor>
  <dc:subject>Lithuanian folk song</dc:subject>
  <dc:subject>šokis</dc:subject>
  <dc:subject>dance</dc:subject>
  <dc:date>1939 (recorded)</dc:date>
  <dc:date>XX amžius > XX a.ketvirtasis dešimtmetis (recorded)</dc:date>
  <dc:type>Sound</dc:type>
  <dc:format>fonografo plokštelė > 78 apsisukimų plokštelė</dc:format>
  <dcterms:extent>00:40</dcterms:extent>
  <dc:identifier>LTRF pl 1193 3</dc:identifier>
  <dc:source>Institute of Lithuanian Literature and Folklore; Lithuania</dc:source>
  <dc:relation>2137(71)(Manuscript)</dc:relation>
  <dc:relation>2587(124) (Transcription of melody)</dc:relation>
  <dcterms:isReferencedBy>Dzūkijos dainos ir muzika. 1935–1941 metų fonografo įrašai / Songs and Music
  from Dzūkijos. Phonograph records of 1935–1941. Sudarė ir parengė / edited by Austė Nakienė, Rūta
  Žarskienė. Vilnius: Lietuvių literatūros ir tautosakos institutas, 2005, p. 114.</dcterms:isReferencedBy>
  <dcterms:spatial>Jaujakaimio k.</dcterms:spatial>
  <dcterms:spatial>Merkinės vls.</dcterms:spatial>
  <dcterms:spatial>Alytaus aps.</dcterms:spatial>
  <europeana:object>http://www.dismarc-audio.org/LLTI/Dzukijos.jpg</europeana:object>
  <europeana:provider>DISMARC - EuropeanaConnect</europeana:provider>
  <europeana:type>SOUND</europeana:type>
  <europeana:isShownBy>http://www.dismarc-audio.org
  /LLTI/LTRF_pl_1193-3.mp3</europeana:isShownBy>
  <europeana:isShownAt>http://www.dismarc.org/index.php?form=display&oaiid=LLTI%2F0LTRFPL11933&
  db=0</europeana:isShownAt>
</record>

```

CD Cover &gt; thumbnail

Audio file &gt; isShownBy

Detail View &gt; isShownAt

ESE



Sample 1

The screenshot shows a digital library interface with a toolbar at the top containing icons for navigation, search, and other functions. Below the toolbar, there is a table with columns for 'Object', 'Europeana (ESE)', and 'Info'. The 'Info' column is highlighted in yellow and contains the following metadata:

Collection :	LLTI
Internal Identification No. :	LLTV0LTRFPL11933
Date :	2010-02-02T10:09:26Z

The 'Internal Identification No.' field is circled in orange. To the right of the table, a pop-up window titled 'LLTI' displays detailed metadata:

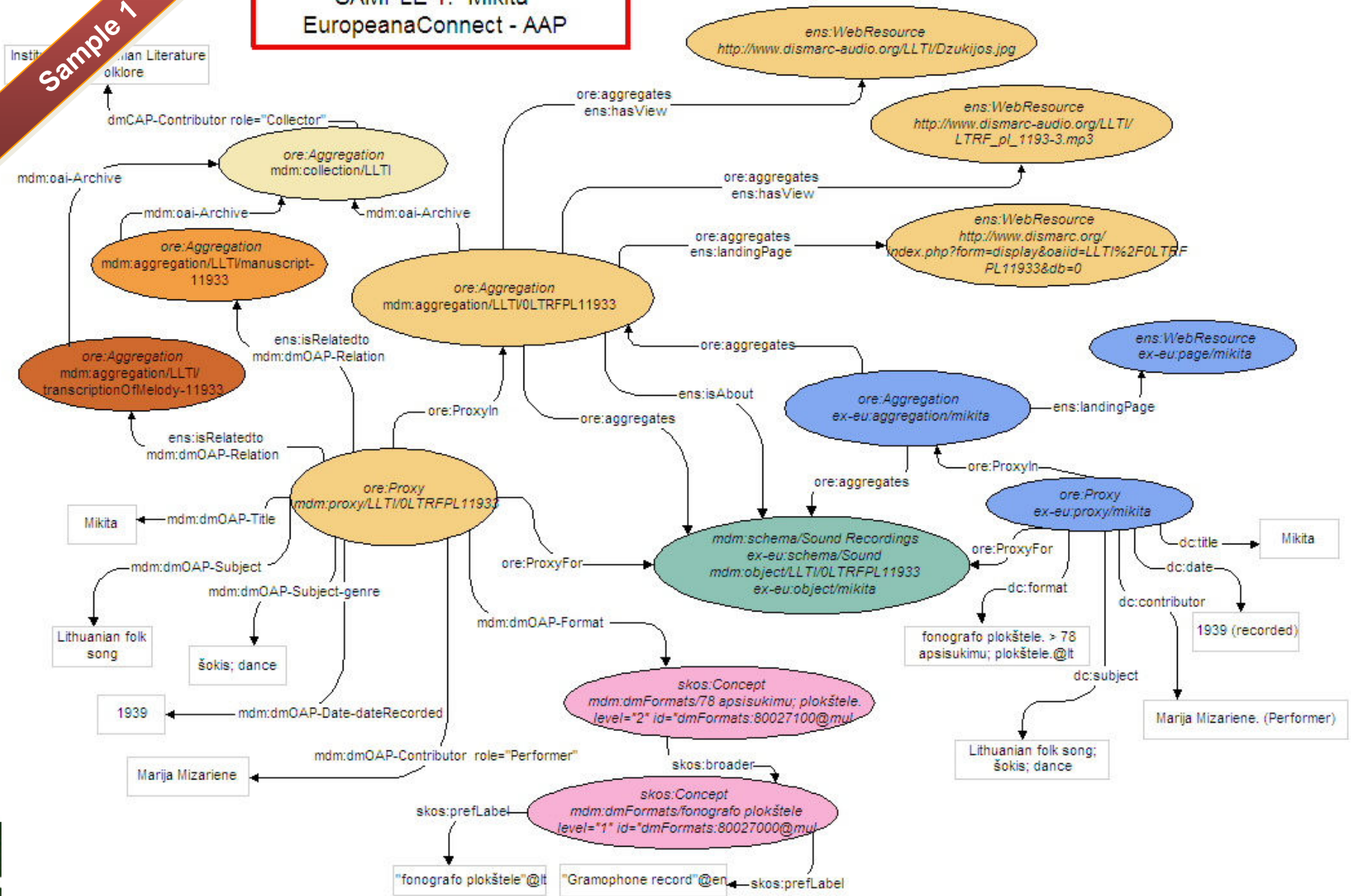
- Collection Identifier: LLTI
- Type: collection
- Title: LLTI tautosakos archyvas
- Alternative Title: Institute of Lithuanian Literature and Folklore
- Description: The Department is in the process of the compilation of the body of the data of Lithuanian folk songs, the purpose of which is to present the whole song performance tradition in Lithuania. It also systematizes and does research into the song texts and melodies.
- Language: Lithuanian
- ItemType: Sound
- Genre: Folk Music
- Contributor: Institute of Lithuanian Literature and Folklore
- Place: Lithuania
- Is Accessed Via: [http://www.llti.lt/en/default\\_en.htm](http://www.llti.lt/en/default_en.htm)
- Is Accessed Via: Antakalnio 6, 10308 Vilnius
- Audio Samples included: No
- Object Metadata searchable: Yes
- Europeana Source Name: Institute of Lithuanian Literature and Folklore; Lithuania

**Each object belongs to a collection**

**The metadata describing the Collection is based on the Dublin Core Collection Application Profile**

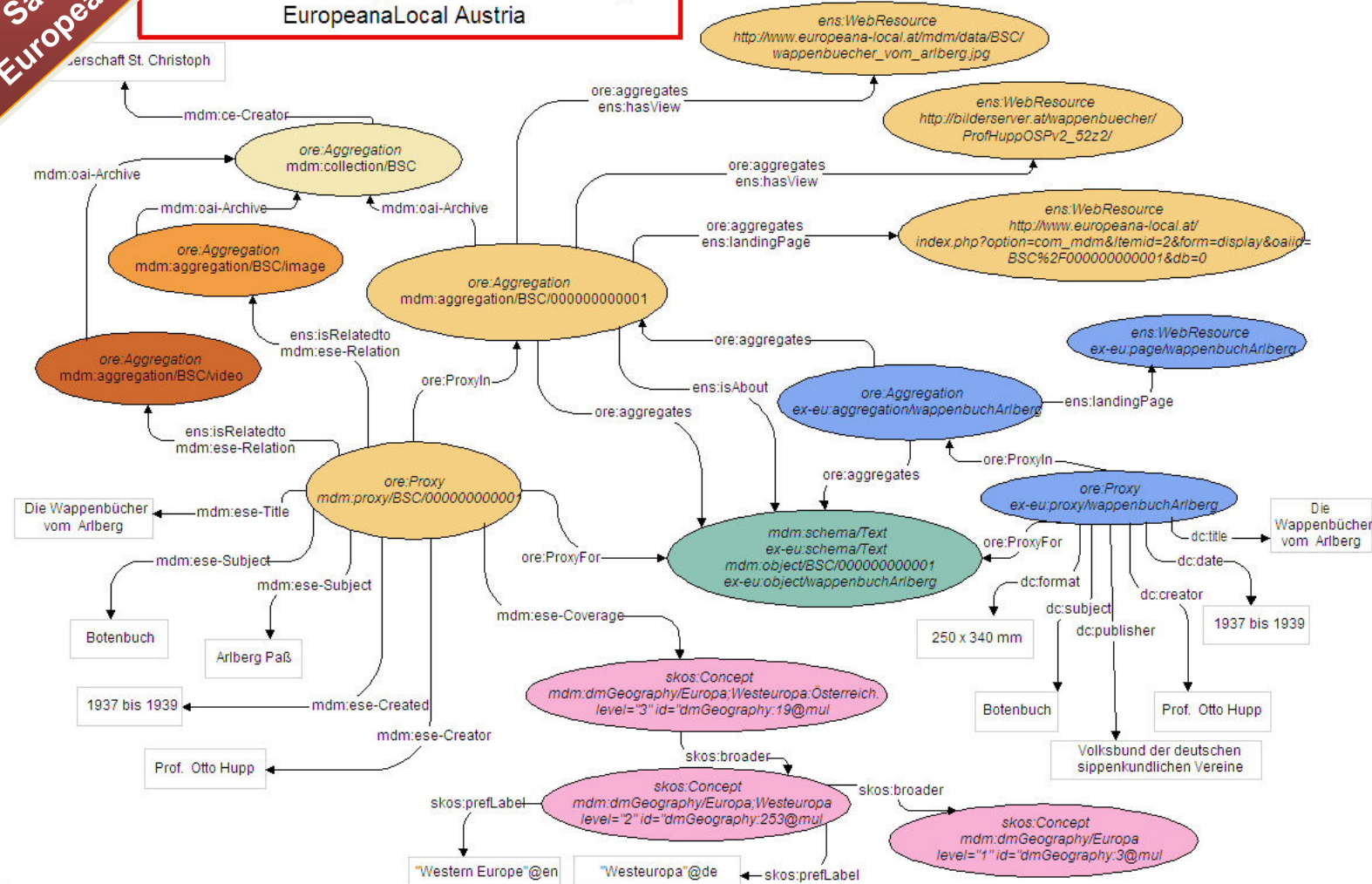
Sample 1

SAMPLE 1: "Mikita"  
EuropeanaConnect - AAP



Sample 2 -  
EuropeanaLocal

SAMPLE 1: "Die Wappenbücher vom Arlberg"  
EuropeanaLocal Austria



# A richer data model for Europeana

How can you use EDM – structured data ?

Example from EuropeanaConnect:

Audio-Exhibition:

**Wedding in Eastern Europe**

<http://193.80.249.124/econnect/wedding-exhibition/ex-v5.php> (work in progress)