



europeana



The Madrid Codices of Leonardo da Vinci (Vol. I), f. 7r
Leonardo da Vinci
c.1493, Biblioteca Nacional de España
Spain, CC BY-SA

Introduction to metadata quality – the approach of Europeana Collections

Adina Ciocoiu | 22 November

 Co-financed by the European Union
Creative Europe Project

Introduction



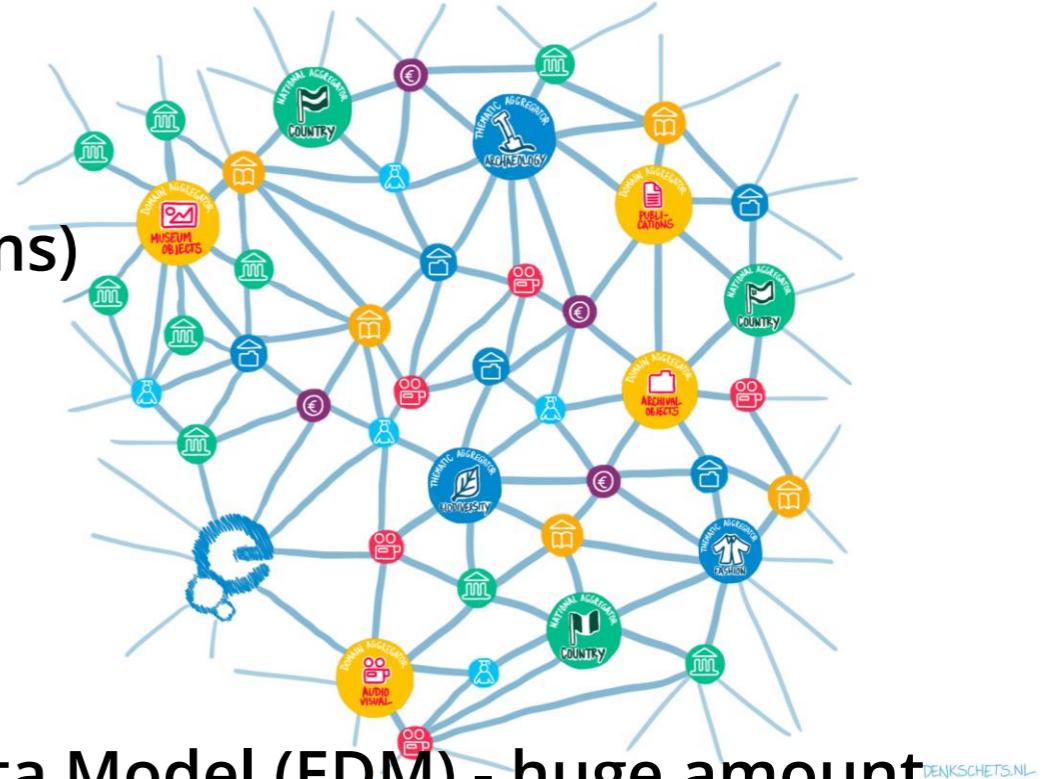
Concerto de Amadores | Columbano Bordalo Pinheiro
1882, Museu do Chiado – Museu Nacional de Arte
Contemporânea,
Portugal, PDM

Short story of Europeana

- April 2005 Jacques Chirac tells EC his big idea
- 2007 EDLnet starts building Europeana
- November 2008 Europeana prototype launched
- Summer 2010 Prototype becomes a service
- Sep 2012 Europeana metadata released as CC0
- 2013 Implementing Europeana Data Model (EDM)
- 2013 #AllezCulture campaign
- May 2015 Europeana Digital Service Infrastructure
- November 2018 10 years anniversary

Europeana achievements

- >3,700 European **institutions** (galleries, libraries, archives and museums) share their collections online
- >54 millions **records** available online
- more than 40 languages
- CC0 for metadata
- **Standardised metadata** - Europeana Data Model (EDM) - huge amount of references to places, agents, concepts, time
- All records include a **standardised rights statement**
- A **network** of like-minded heritage and technology professionals
- An **open data platform** (available for reuse via Europeana API)



We want to build on Europe's rich heritage and make it easier for people to use, whether for work, for learning or just for fun!

OUR PRIORITIES

We have three goals. We want to make it easier and rewarding for cultural heritage institutions to share high-quality collections with a global audience. We want to scale with partners to reach the markets and audiences who can most benefit from cultural heritage content. And we want people to get excited about cultural heritage whether it's on Europeana's websites or elsewhere.

The possibilities for using open cultural heritage in new apps, products and services are almost limitless. Explore our showcase of apps using the Europeana content and API.

MARKETS



ACADEMIC RESEARCH



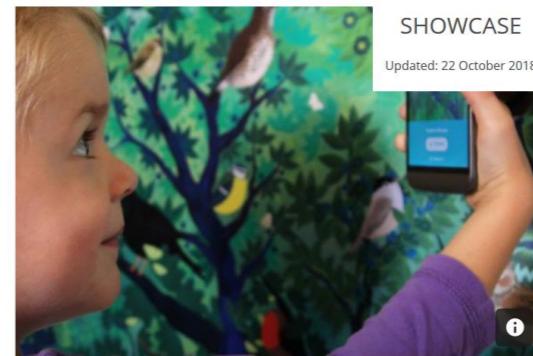
CREATIVE INDUSTRIES



EDUCATION



CULTURAL HERITAGE INSTITUTIONS



SHOWCASE

Birdie Memory

Funding Creative industries app EdTech

Birdie Memory is an educational game which introduces primary school children (and older) to birds and their unique songs using Europeana openly ...

1 minutes to read

VIEW SHOWCASE



[Europeana Strategy homepage](#)

Europeana Pro | CC BY-SA

[**Birdie Memory Game**](#)
Europeana Pro | CC BY-SA

Contributing to third party sites - Wikimedia Commons

Media in category "Europeana 1914-1918"

The following 200 files are in this category, out of 995 total.

(previous page) (next page)



"Andrée".jpg
286 KB



"Argonne".jpg
177 KB



"Attestation d'invalidité"
van François Van
Goidsenoven, item 1.jpg
994 KB



"Eléonore".jpg
291 KB



"Gefallen für das
Vaterland". In Erinnerung
an den Landwehrmann
Jakob Paul, item 3.jpg
759 KB



"Il faut être à deux pour



"Souvenir".jpg



01, plaque d'identité



112 Shell case trench art



112 Shell case trench art

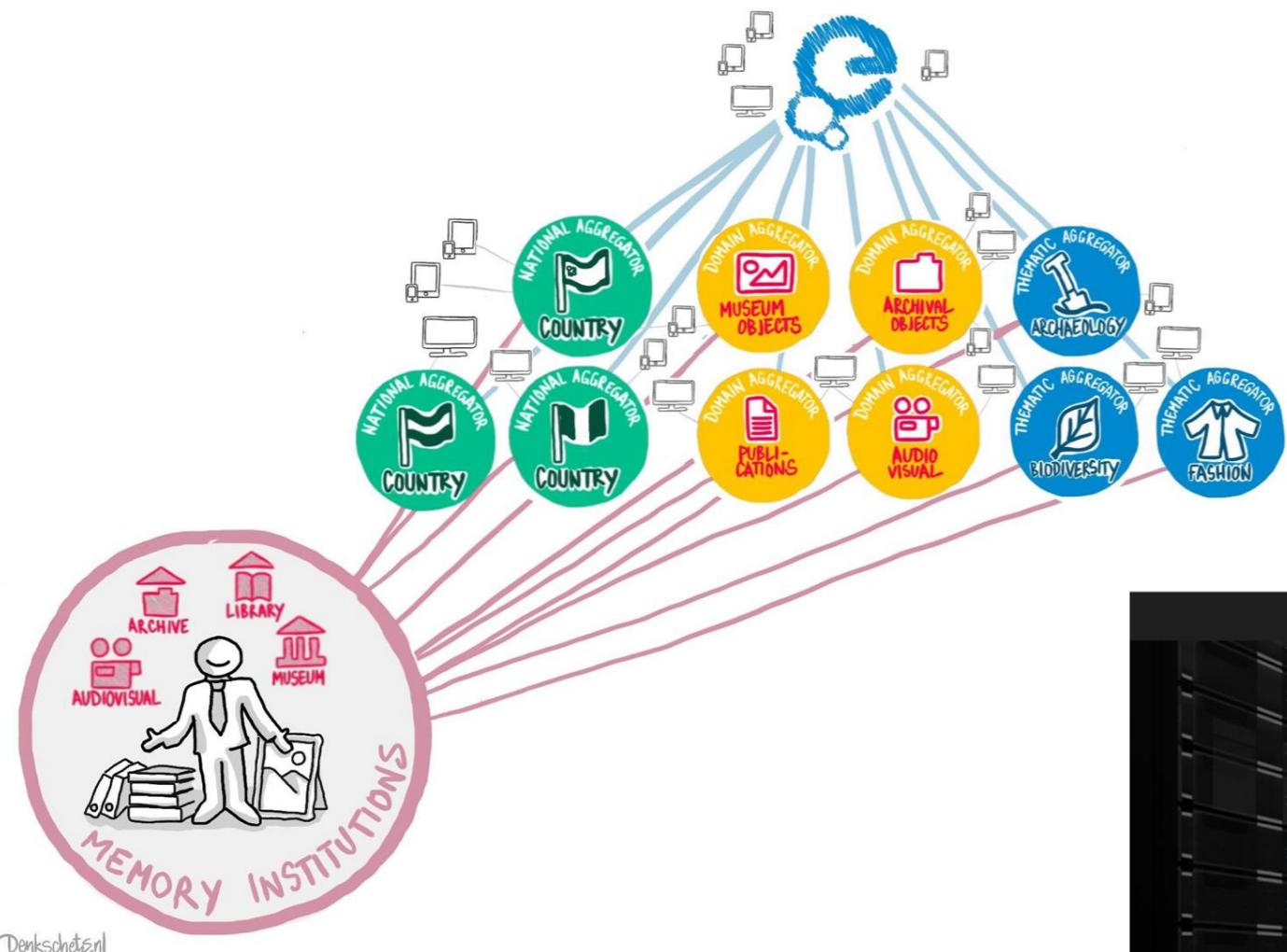
Must Read:

[10 reasons to open up your digital cultural heritage data](#)
by Nicole McNeilly

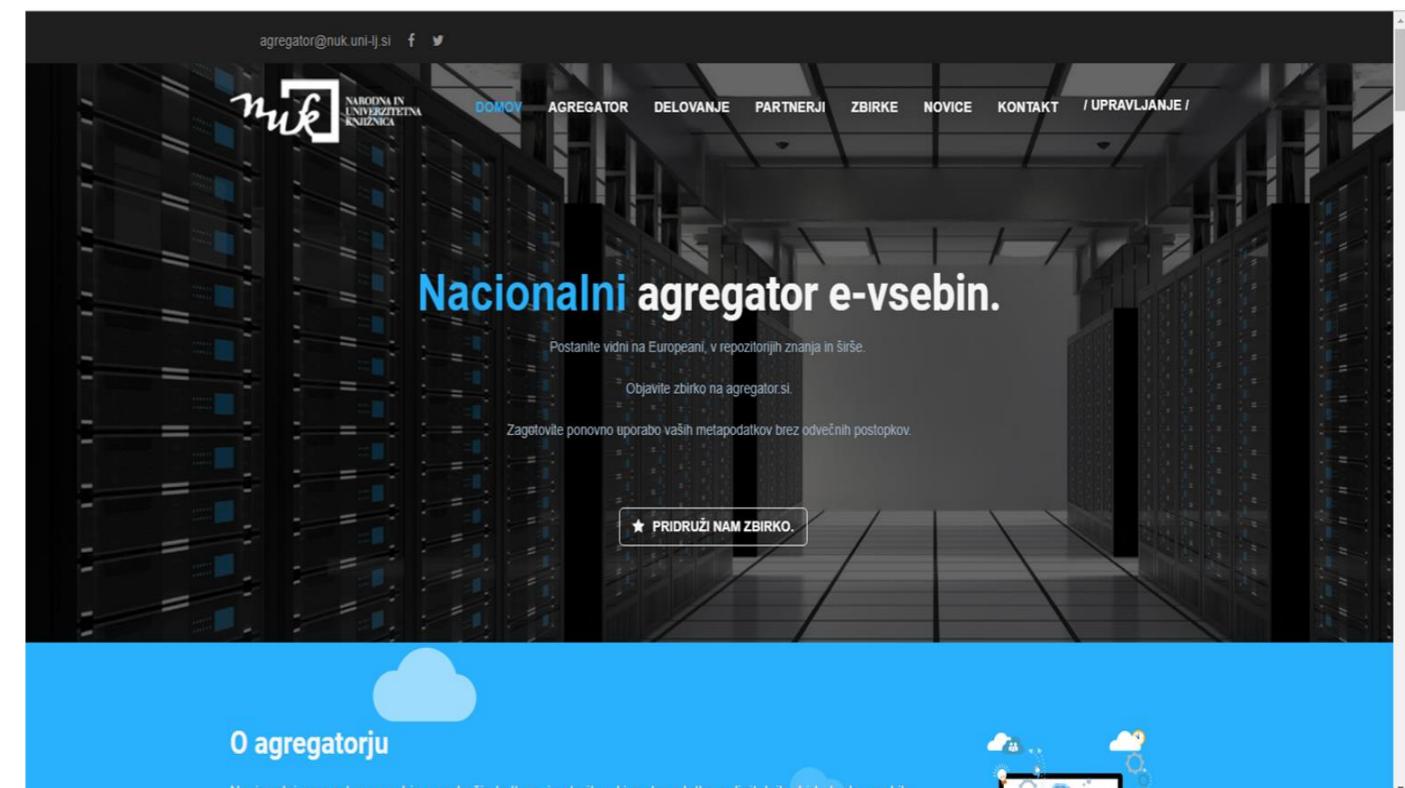
[Europeana 1914-1918 content on Wikimedia Commons](#)

Wikimedia Commons | CC BY-SA

Aggregation in Europeana Collections



Denkstrate.nl



Aggregation in Europeana Collections

- Descriptive and technical metadata

- Thumbnails

As a rule, content is still served from our data partners

- Content for specific projects

- newspapers text and images
- user-generated content

(Europeana 1914-1918, Europeana Migration)

Europeana Collections

The screenshot shows the Europeana Collections homepage. At the top, there's a navigation bar with links for 'Collections', 'Explore', 'Exhibitions', 'Blog', 'OUR SITES', and 'LANGUAGE'. The main feature is a large painting of a peasant fair by David Teniers, with the word 'europeana' overlaid in white. Below the painting is a search bar with the placeholder 'Add a search term' and a 'Browse' button. A text overlay says 'Explore 58,112,930 artworks, artefacts, books, films and music from European museums, galleries, libraries and archives'. In the bottom right corner of the painting, there's a caption: 'Peasant Kermis, David Teniers, Rijksmuseum, Public Domain'. Below the painting is a grid of 12 category thumbnails: 'GIF IT UP', 'FREE TO USE IMAGES', '1914-1918', 'ART', 'FASHION', 'MANUSCRIPTS', 'MAPS', 'MIGRATION', 'MUSIC', 'NATURAL HISTORY', 'PHOTOGRAPHY', and 'SPORT'. Each thumbnail has a small image and a title. On the far right edge of the grid, there's a 'FEEDBACK' link.



Elegant Party on a Terrace of a
Venetian-inspired Setting
Anonymous
1615,
Rijksmuseum
Netherlands, Public Domain

Metadata quality prerequisites

From this...



MODS

Metadata Object Description Schema
Official Web Site

ISAD(G):
General International Standard Archival
Description



ORGANISATION INTERNATIONALE DE NORMALISATION
ISO/IEC JTC1/SC29/WG11
CODING OF MOVING PICTURES AND AUDIO



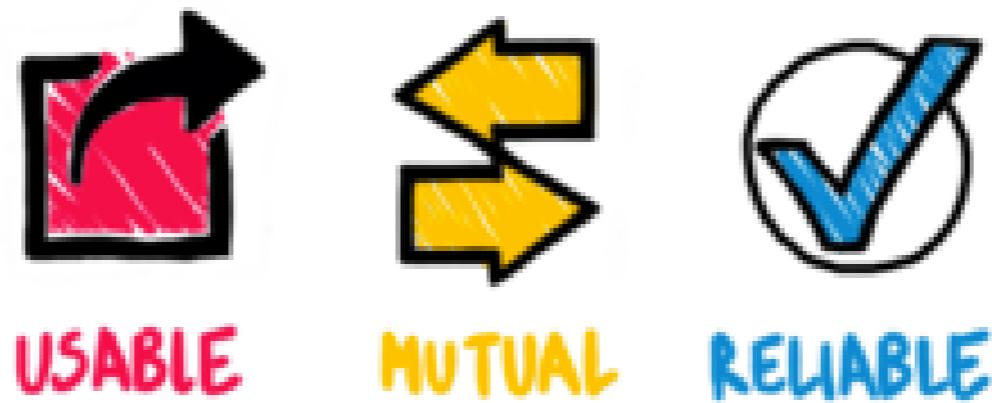
... to Europeana Semantic Elements

dc:contributor, dc:creator, dc:date, dc:format, dc:identifier,
dc:language, dc:publisher, dc:relation, dc:source,
dcterms:alternative, dcterms:extent, dcterms:temporal,
dcterms:medium, dcterms:created, dcterms:provenance,
dcterms:issued, dcterms:conformsTo, dcterms:hasFormat,
dcterms:isFormatOf, dcterms:hasVersion, dcterms:isVersionOf,
dcterms:hasPart, dcterms:isPartOf, dcterms:isReferencedBy...

europeana:type, **europeana:dataProvider**,
europeana:provider, europeana:isShownAt, europeana:isShownBy,
europeana:object, **europeana:rights**

....to...the Europeana Data Model

- Cross-community re-use of data models
- Semantic Web technology allows mixing them
- Collaborative, softer form of standardisation



The core classes are:

- edm:ProvidedCHO - the provided cultural heritage object
- edm:WebResource - the web resource that is the digital representation
- ore:Aggregation - the aggregation that groups the classes together

Main contextual classes include:

- edm:Agent – who
- edm:Place – where
- edm:TimeSpan – when
- skos:Concept – what
- cc:License – access and usage

Properties for ore:Aggregation	
✓ edm:aggregatedCHO	✓ edm:provider
✓ edm:dataProvider	dc:rights
edm:hasView	✓ edm:rights
◆ edm:isShownAt	edm:ugc
◆ edm:isShownBy	+ edm:intermediateProvider
+ edm:object	

Properties for edm:WebResource	
dc:creator	dcterms:hasPart
dc:description	dcterms:isFormatOf
dc:format	dcterms:isPartOf
dc:rights	dcterms:isReferencedBy
dc:source	dcterms:issued
dcterms:conformsTo	edm:isNextInSequence
dcterms:created	+ edm:rights
dcterms:extent	owl:sameAs

Contextual Classes	
Properties for edm:Agent	
+ skos:prefLabel	foaf:name
skos:altLabel	rdaGr2:biographicalInformation
skos:note	rdaGr2:dateOfBirth
dc:date	rdaGr2:dateOfDeath
dc:identifier	rdaGr2:dateOfEstablishment
dcterms:hasPart	rdaGr2:dateOfTermination
dcterms:isPartOf	rdaGr2:gender
edm:begin	rdaGr2:placeOfBirth
edm:end	rdaGr2:placeOfDeath
edm:hasMet	rdaGr2:professionOrOccupation
edm:isRelatedTo	owl:sameAs

Properties for edm:Place	
+ wgs84_pos:lat	skos:note
+ wgs84_pos:long	dcterms:hasPart
wgs84_pos:alt	dcterms:isPartOf
+ skos:prefLabel	edm:isNextInSequence
skos:altLabel	owl:sameAs

2 Overview of the properties in each class

✓ = Mandatory property

➔ Blue = at least one of the blue properties should be present (and can be used alongside each other)

○ Red = at least one of the red properties should be present (and can be used alongside each other)

◆ Green = at least one of the green properties should be present (and can be used alongside each other)

+ = recommended property

Detailed characteristics of all properties are given in the full tables following this summary.

Core Classes

Properties for edm:ProvidedCHO	
+ dc:contributor	dcterms:isReplacedBy
○ dc:coverage	dcterms:isRequiredBy
+ dc:creator	+ dcterms:issued
+ dc:date	dcterms:isVersionOf
➔ dc:description	dcterms:medium
dc:format	dcterms:provenance
+ dc:identifier	dcterms:references
✓ dc:language (if edm:type = TEXT)	dcterms:replaces
+ dc:publisher	dcterms:requires
dc:relation	○ dcterms:spatial
dc:rights	dcterms:tableOfContents
+ dc:source	○ dcterms:temporal
○ dc:subject	edm:currentLocation
➔ dc:title	edm:hasMet
○ dc:type	edm:hasType
+ dcterms:alternative	edm:incorporates
dcterms:conformsTo	edm:isDerivativeOf
+ dcterms:created	+ edm:isNextInSequence
dcterms:extent	edm:isRelatedTo
dcterms:hasFormat	edm:isRepresentationOf
dcterms:hasPart	edm:isSimilarTo
dcterms:hasVersion	edm:isSuccessorOf
dcterms:isFormatOf	edm:realizes
+ dcterms:isPartOf	✓ edm:type
dcterms:isReferencedBy	owl:sameAs

Europeana Linked Data strategy

EDM supports **contextual resources** and offers a base for **cross linking**

EDM allows data providers to contribute their **own vocabularies**

EDM contributes to the **alignment** between domain vocabularies

Europeana Semantic Enrichment

We perform **automatic semantic enrichment** to link source data to reference data in order to....

Improve the user experience

- better ways of searching and navigating through the collections, eliminating ambiguity and clarifying the meaning of descriptions
- better adaptation to the language of the user

Improve the quality and interlinking of data

- more **context** to the objects
- better **multilingual coverage**
- contribution to build a **web of data** that third parties can use to improve their users' experience

Europeana Linked Data strategy

Vocabularies currently provided to Europeana

Upload Vocabulary Vocabulary Mapping

Vocabulary Name:

Vocabulary URI:

Remote File
 Copy mapping from
 Local File
 Import Mapping

No file chosen

Vocabulary Rules

Name	Rules	Iterati
MIMO-General	InstrumentKeywords, HornbostelAndSachs	0
MIMO-General	InstrumentMaker	0
MIMO-Person	*	0
UNESCO	<#TerritorialCorporateBodyOrAdministrativeUnit>	0
GNDTerritorialCorporateBodyOrAdministrativeUnit	<#Concept>	0
IconClass concepts	*	1
GeonamesVersion2	<#Concept>	1
WWI Data Europeana from Loc	<#SubjectHeadingSensoStricto>	1
GNDSubjectHeadingsSensoStricto	<#DifferentiatedPerson>	1
GNDDifferentiatedPerson	*	0
Israel Museum Jerusalem objects	<##RoyalOrMemberOfARoyalHouse>	1
GNDRoyalMemberofARoyalHouse	<#CorporateBody>	1
GNDCorporateBody	*	0
EAGLE_vocabulary	<#Concept>	0
Sounds genres	*	0
Dismarc Genres	*	0

Name: WWI Data Europeana from Loc

Rules: InstrumentKeywords, HornbostelAndSachs

Iteration: 0

Name: GNDSubjectHeadingsSensoStricto

Rules: InstrumentMaker

Iteration: 0

Name: GNDDifferentiatedPerson

Rules: *

Iteration: 0

Name: Israel Museum Jerusalem objects

Rules: <#TerritorialCorporateBodyOrAdministrativeUnit>

Iteration: 0

Name: GNDTerritorialCorporateBodyOrAdministrativeUnit

Rules: <#Concept>

Iteration: 0

Name: IconClass concepts

Rules: *

Iteration: 1

Name: GeonamesVersion2

Rules: <#Concept>

Iteration: 1

Name: WWI Data Europeana from Loc

Rules: <#SubjectHeadingSensoStricto>

Iteration: 1

Name: GNDSubjectHeadingsSensoStricto

Rules: <#DifferentiatedPerson>

Iteration: 1

Name: GNDDifferentiatedPerson

Rules: *

Iteration: 0

Name: Israel Museum Jerusalem objects

Rules: <##RoyalOrMemberOfARoyalHouse>

Iteration: 1

Name: GNDRoyalMemberofARoyalHouse

Rules: <#CorporateBody>

Iteration: 1

Name: GNDCorporateBody

Rules: *

Iteration: 0

Name: EAGLE_vocabulary

Rules: <#Concept>

Iteration: 0

Name: Sounds genres

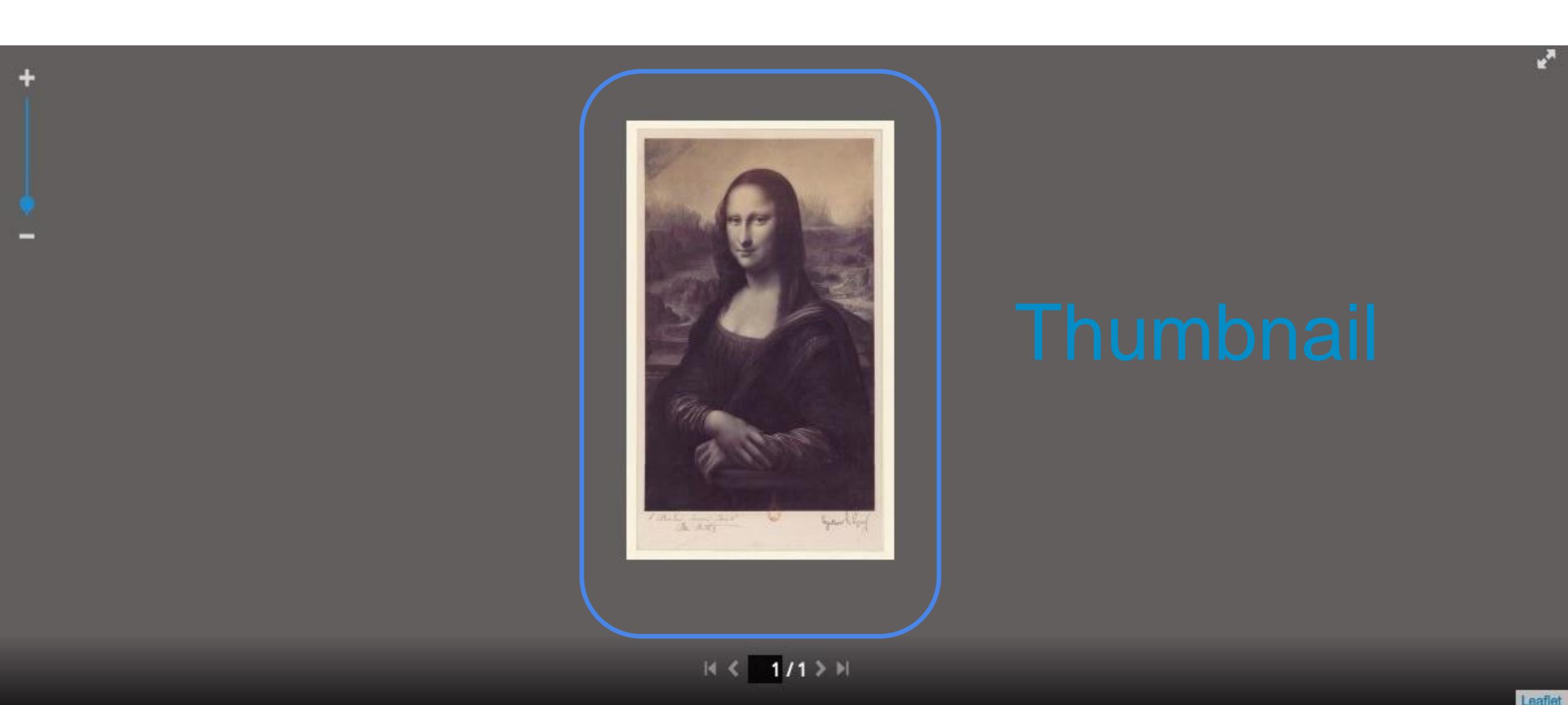
Rules: *

Iteration: 0

Name: Dismarc Genres

Rules: *

Iteration: 0



① Media Metadata

Title

[Reproduction de la copie de la Joconde exécutée par Aimé Millet en 1848] : [photographie] / Gustave Le Gray | Gustave Le Gray

Description

Collectionneur : Armand, Alfred (1805-1888)

Metadata

Link to data provider

[FIND OUT MORE](#)

[View at Bibliothèque nationale de France](#)

CAN I USE IT?

Limited Re-use

 No Copyright - Other Known Legal Restrictions

Rights

Similar Items



Photograph of General Eoin O'Duffy.



Passport photograph of Michael Tierney.



A young man with handlebar moustache : hea...



Photograph of Sir Roger Casement.

[show more... \(8,252,295\)](#)

Links to contextual entities

Entities

SUBJECTS, RESOURCE TYPES, GENRES AND FORMS (CONCEPTS) ▾

Concept Term

<http://data.europeana.eu/concept/base/48>

Concept Label

["Bild (Fotografie)"] (de); ["Valokuva"] (fi); ["사진"] (ko); ["Снимка"] (bg); ["Photograph"] (en); ["Ljósmynd"] (is); ["Fénykép"] (hu); ["相片"] (zh); ["Foto"] (et); ["դպրակունք"] (yi); ["Argazki"] (eu); ["Լուսանկար"] (hy); ["Фотографічний твір"] (uk); ["Foto"] (nl); ["Fotoğraf"] (tr); ["Fotografia (document)"] (ca);

PERSONS AND ORGANISATIONS (AGENTS) ▾

Agent Term

<http://data.europeana.eu/agent/base/152026>

Agent Label

["Gustave Le Gray"] (cs); ["Gustave Le Gray"] (de); ["Gustave Le Gray"] (sv); ["Gustave Le Gray"] (en); ["Gustave Le Gray"] (it); ["Gustave Le Gray"] (pl); ["Gustave Le Gray"] (fr); ["Gustave Le Gray"] (es); ["Gustave Le Gray"] (nl);

The Entity Collection - an example of EDM metadata re-use in Europeana Collections

Enrichment of Provider's Data

- A controlled vocabulary to help identify named references to entities

Crowdsourcing

- Objects can be annotated with references to entities
- A controlled vocabulary for client applications

Entity Collection

Europeana Collections Portal

- *Findability*: users can look for entities, not only records (Entity-Based Search)
- *Understandability*: Entity Pages group and present all assertions about an entity
- *Exploration*: Navigation along relationships and browsing through entities becomes possible

Republication for Re-use

- Entities can be republished as an open source to the community

The Entity Collection - an example of EDM metadata re-use in Europeana Collections

<http://data.europeana.eu/agent/base/59787>

co-references

```

    - placeOfDeath: [
        - {
            @id: "https://dbpedia.org/resource/Grosseto"
        },
        - {
            @id: "https://dbpedia.org/resource/Tuscany"
        },
        - {
            @id: "https://dbpedia.org/resource/Porto_Ercole"
        }
    ],
    - prefLabel: [
        ar: "مichelangelo Merisi da Caravaggio",
        az: "Kərvəqoç",
        be: "Караважо",
        bg: "Микеланджело да Караваджо",
        bs: "Caravaggio",
        ca: "Caravaggio",
        cs: "Caravaggio",
        cy: "Caravaggio",
        da: "Michelangelo di Caravaggio",
        de: "Michelangelo Merisi da Caravaggio",
        el: "Καράβαγκος",
        es: "Caravaggio",
        et: "Michelangelo Caravaggio",
        eu: "Caravaggio",
        fi: "Se Caravage",
        fr: "Le Caravage",
        ga: "Caravaggio",
        gl: "Caravaggio",
        he: "הארבג'ו",
        hr: "Caravaggio",
        hu: "Caravaggio",
        hy: "Կարավաջո",
        is: "Caravaggio",
        it: "Michelangelo Merisi da Caravaggio",
        ja: "ミケランジェロ・メリージ・ダ・カラヴァッジョ",
        ko: "카라바조",
        lt: "Michelangelo Merisi da Caravaggio",
        lv: "Karavādo",
        nl: "Caravaggio (schilder)",
        no: "Caravaggio",
        pl: "Caravaggio",
        pt: "Caravaggio",
        ro: "Caravaggio",
        ru: "Караваджо",
        sk: "Michelangelo Merisi da Caravaggio",
        sl: "Caravaggio",
        sr: "Караџо",
        sv: "Caravaggio",
        tr: "Caravaggio",
        uk: "Мікеланджело да Караваджо",
        zh: "卡拉瓦喬"
    ]
}
  
```

entity page

Items by Caravaggio

Caravaggio BIRTH DEATH

1571-09-29 Lombardy, Milan 1610-07-18 Grosseto, Tuscany, Porto Ercole

Resource obtained from Wikimedia Commons

Michelangelo Merisi (or Amerighi) da Caravaggio (Italian pronunciation: [karavaddjo]; 29 September 1571 – 18 July 1610) was an Italian artist active in Rome, Naples, Malta, and Sicily between 1595 (1595) and 1610. His paintings, which combine a realistic observation of the human state, both physical and emotional, with a dramatic use of lighting, had a formative influence on Baroque painting. Caravaggio trained as a painter in Milan under Simone Peterzano who had himself trained under Titian; in his twenties Caravaggio moved to Rome where there was a demand for paintings to fill the many huge new churches and palaces being built at the time. It was also a period when the Church was searching for a stylistic alternative to Mannerism in religious art that was talked to counter the threat of Protestantism. Caravaggio's innovation was a radical naturalism that combined close physical observation with a dramatic, even theatrical, use of chiaroscuro which came to be known as tenebrism (the shift from light to dark with little intermediate value). He burst upon the Rome art scene in 1600 with the success of his first public commissions, the Martyrdom of Saint Matthew and Calling of Saint Matthew. Thereafter he never lacked commissions or patrons, yet he handled his success poorly. He was jailed on several occasions, vandalized his own apartment, and ultimately had a death

Graflegging
Versteegh, Janus; Caravaggio

Madonna van Loreto
Versteegh, Janus; Spies...

Madonna van Loreto
Versteegh, Janus; Spies...

David met het hoofd van Goliath
Vellert, Wouter; Caravaggio

Wisscherij
Caravaggio

Prometheus (1652)
Uilenboom, Leopold; Caravaggio

multilingual coverage

EDM - an open and living standard

The model is **well-documented** and **openly shared**

Different documentation on **various profiles of EDM**

Allows the **identification of new domain specific requirements** while maintaining interoperability

Community joint effort

Building block for...

About ▾ Hubs ▾ For Developers ▾ Education ▾ Get Involved ▾ Help ▾ News ▾ Contact ▾ [Donate](#)

D|P|A DIGITAL PUBLIC LIBRARY OF AMERICA

Home Exhibitions Map Timeline Apps

Search the Library

For Developers

- API Codex
- Bulk Download
- Ideas & Projects
- Metadata Application Profile**
- Sample Code & Libraries

Search this site

dpla:SourceResource

```
graph TD; dpla:SourceResource -- "dcterms:isPartOf" --> dpla:Place; dpla:SourceResource -- "dcterms:spatial" --> dpla:Place; dpla:SourceResource -- "edm:TimeSpan" --> edm:TimeSpan; dpla:SourceResource -- "edm:aggregatedCHO" --> aggregatedCHO[ ];
```

Metadata Application Profile

The DPLA Metadata Application Profile (MAP) is the basis for how metadata is structured and validated in DPLA, and guides how metadata is stored, serialized, and made available through our [API](#) in JSON-LD. The MAP is based on the Europeana Data Model (EDM), and integrates the experience and specific needs for aggregating the metadata of America's cultural heritage institutions. The current version is 4.0.

[Download the DPLA Metadata Application Profile, version 4.0.](#)

New to the DPLA MAP? Read our [Introduction to the DPLA Metadata Model](#) to get started.

The previous versions can be accessed below:

- [DPLA MAP v3.0](#)
- [DPLA MAP v3.1](#)

Objekte, davon 9.400.919 mit Digitalisat

|

Nur Objekte mit Digitalisat

Erweiterte Suche

Neu hier?

AKTUELL Willkommen bei der Deutschen Digitalen Bibliothek!

Die Gegenwart. Wochenschrift für Literatur, Kunst und öffentliche Leben.

AKTUELL Ein Zeitungsportal für Deutschland: DDB baut weiteres...

ENTDECKEN MSCAP ANAMUR

ENTDECKEN Der digitale Tellerrand 03: "Das Virtuelle Migrationsmuseum -...

ENTDECKEN Wir sind die DDB: Museumsstiftung Post und...

Balloon
Pál Szinyei Merse
Hungarian National Gallery
CC BY-NC-SA

A painting of a hot air balloon by Pál Szinyei Merse. The balloon is large, with a yellowish-brown fabric and red horizontal stripes. It has a basket with a person in a red coat. The background is a blue sky with white clouds.

Europeana Collections: Quality Challenges

General metadata issues...to mention just a few

Confusion between information describing the object and information describing its digital representation

Absence of mandatory fields

Non meaningful information in descriptive fields

Non unique identifiers

Literal values in fields where a reference is expected

Codes instead of full names given in literal values

information about the object vs its digital representation

edm:ProvidedCHO

dc:format

edm:WebResource

dc:format

	
Media Metadata	
Title	Portrait of Pierre Sala from BL Stowe 955, f. 17 Pierre Sala
Description	Portrait of Pierre Sala, at the end of his Petit Livre d'Amour. Image taken from f. 17 of Petit Livre d'Amour. Written in French and Italian (f. 7v).
People	Creator: Pierre Sala Contributor: Pierre Sala
Classifications	Type: illuminated manuscripts , Catalogue of Illuminated Manuscripts Subject: British Library Stowe Collection , BL Stowe 955 , f. 17 , Pierre Sala's handwriting in gold on purple (f. 16v in mirror-script)
Properties	Size: 130 x 95 (85 x 70) Format: JPEG Language: fre ; ita

Unknown Titles

Media Metadata

Title Unknown and Unknown | Unknown

Unknown

Description Call Number - 0013012

Shelf Mark - Dc.7.63

People Creator: Unknown

FIND OUT MORE
View at University Of

CAN I USE IT?
Free Re-use
CC BY

EXPLORE BY COLOUR

SHARE

Unknown

Independent Newspapers PLC

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown coordinates

Title	Newfoundland: Letter from John Alcock to his sister dated 12th June, 1919 and carried in the cover above. Author : Captain John Alcock
Description	In 1913 the Daily Mail newspaper offered a prize of £10,000 for the first non-stop crossing of the Atlantic by a heavier than air machine. The 1914-18 War interrupted the attempts and in 1918 the Daily Mail's offer was repeated. Attempts were made from Newfoundland in 1919 and on 14th June the first successful flight with Captain John Alcock and navigator Lt. Arthur Whitten-Brown was made. The image shows a letter in Alcock's hand to his sister in Manchester carried on that first successful flight reading "...This letter will travel with me in the official mail bag, the first mail to be carried over the Atlantic..."
Location	Location: 0,0 , Newfoundland

Language issues

dc:language provided for non linguistic content



Media Metadata

Description ... de adăugat

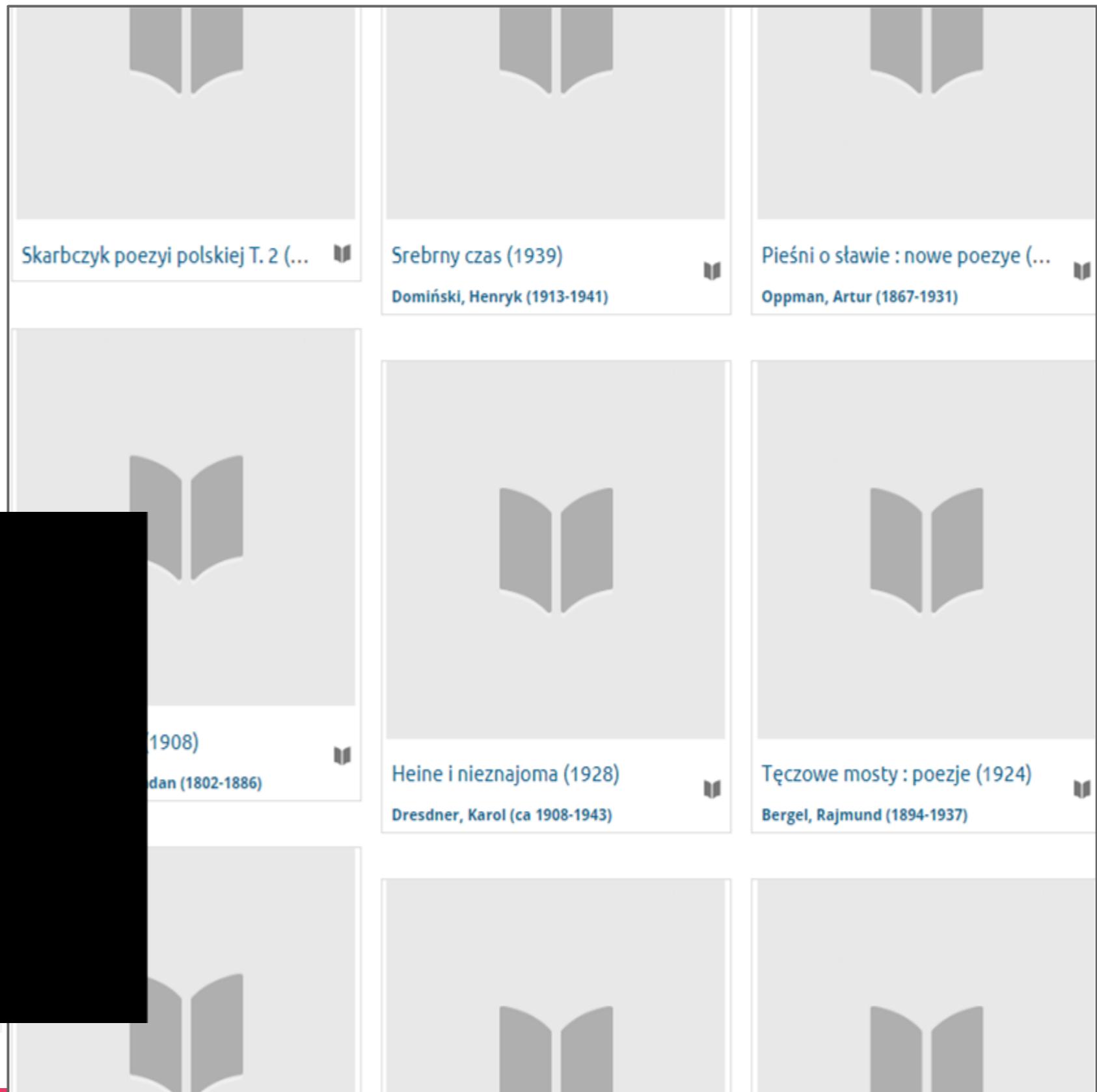
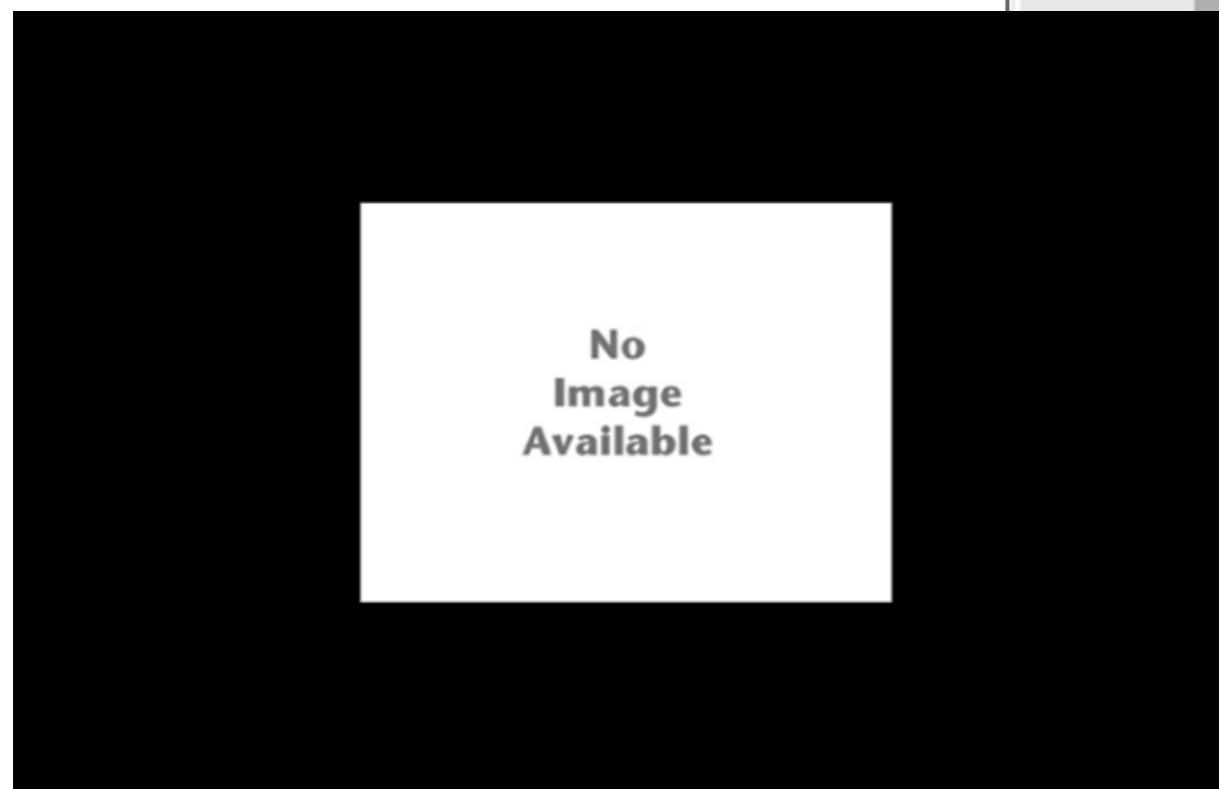
Classifications Type: imagine digitală

Properties Language: ro

Digital objects

Missing direct links

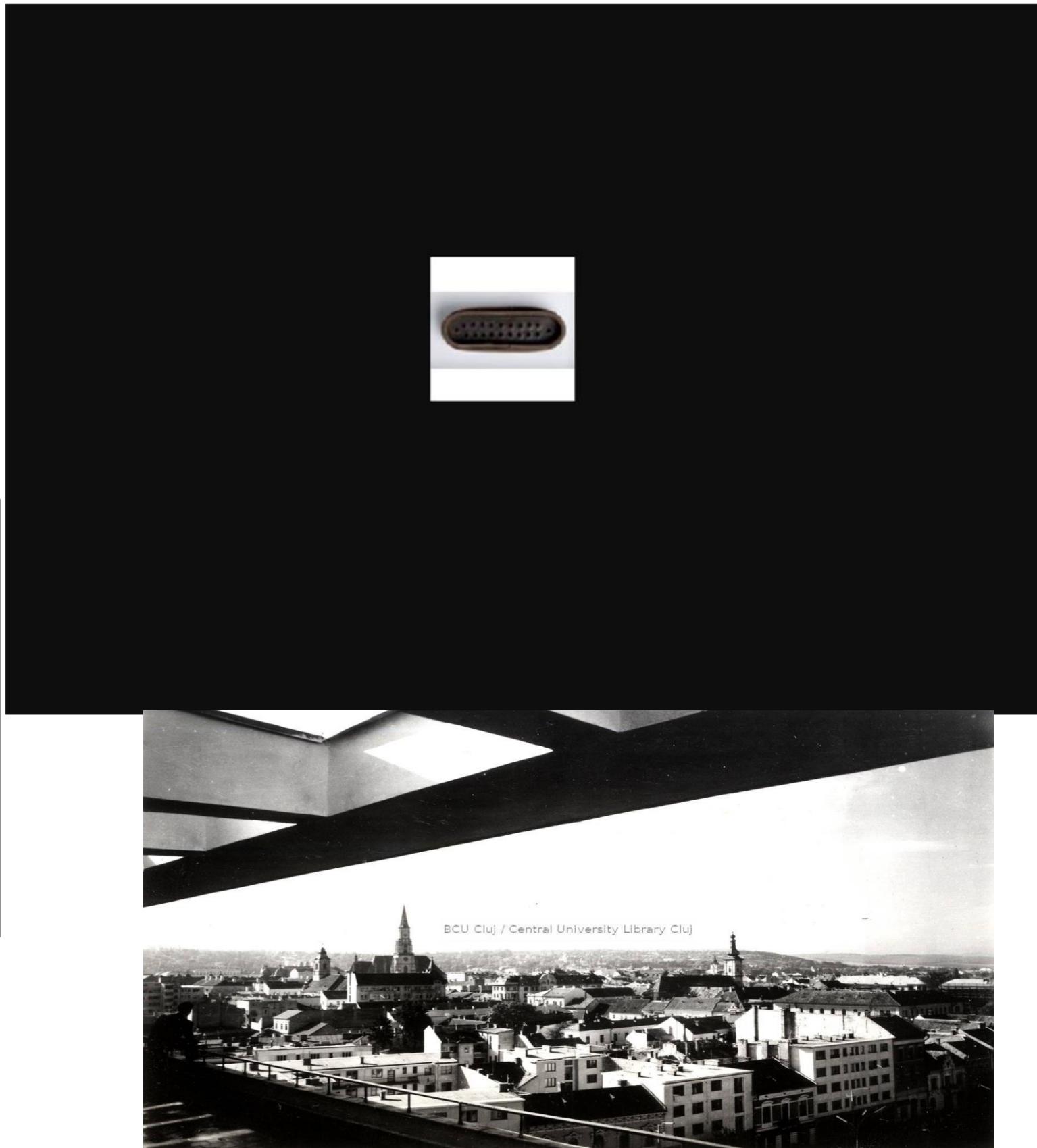
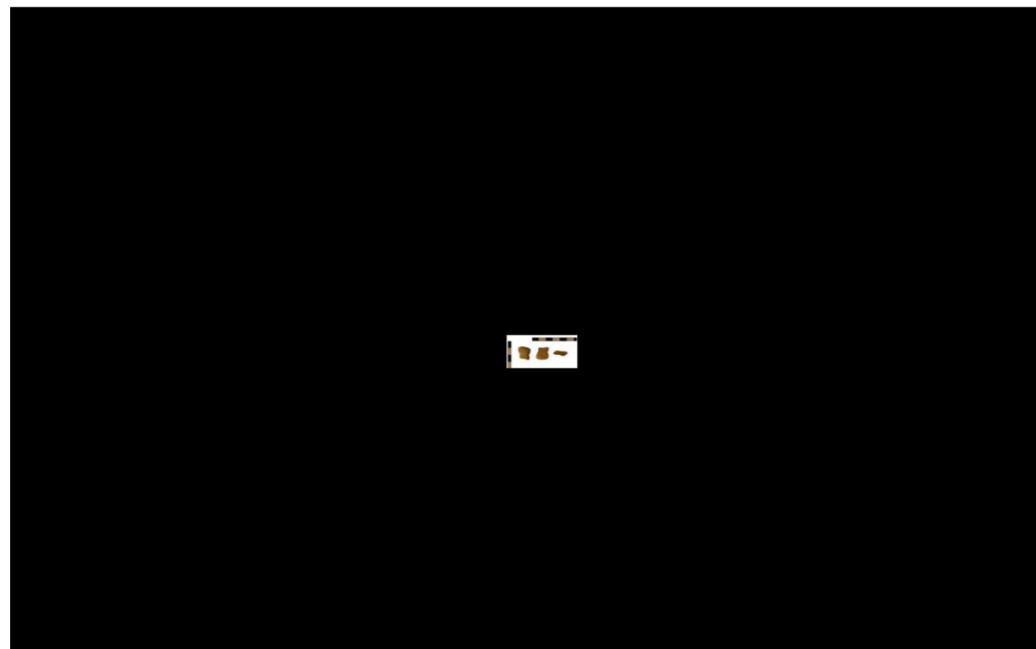
Broken links



Digital objects

Low resolution

Watermarks



Copyright

Debatable license attribution (country specific)

Classifications	Type: Manuscript Subject: Manuscript
Properties	Language: ita
Time	Date: 1600 - 1699

CAN I USE IT?

Limited Re-use



SHARE



Our approach to metadata quality

Arrival of a Portuguese ship
Anonymous
1660 - 1625,
Rijksmuseum
Netherlands, Public
Domain

Metadata Quality - what do we do

Dataset analysis

Data Quality Planning

Data quality conversations

Developing Data Assessment
Tools

Semantic Enrichment:
fetching information from
external controlled vocabularies
when links are provided



[Mezei kocsiút | Vaszary János](#)

Rippl-Rónai Megyei Hatókörű Városi Múzeum
Hungary, CC-BY

Metadata Quality – what can *data partners* do

More meaningful metadata

Use a **consistent terminology** in fields enabling Semantic Enrichment

Provide links to **dereferenceable LOD vocabularies** (*Getty AAT, Iconclass, Geonames, VIAF, MIMO, Library of Congress WWI terms, UNESCO Thesaurus*)

Use of language attributes for literal values

More spatial information

Normalisation of dates

....cause when they do....

Object

ConceptScheme : <http://www.mimo-db.eu/InstrumentsKeywords>

skos:Concept

Clavecin

<http://www.mimo-db.eu/InstrumentsKeywords/2251>

skos:prefLabel

- Harpsichord (und)
- Clavicémbalo (es)
- 羽管键琴 (zh)
- Klawesyn (pl)
- Clavicèmbal (ca)
- Cembalo (de)
- Harpsichord (en)
- Clavecin (fr)
- Clavicembalo (it)
- Klavecimbel (nl)
- Cembalo (sv)

skos:exactMatch

- <http://www.mimo-db.eu/HombostelAndSachs/6461>

skos:closeMatch

- <http://dbpedia.org/resource/Harpsichord>

Iconclass

Options · Help · About · Login

Outline · Edits · Clipboard

- 0 Abstract, Non-representational Art
- 1 Religion and Magic
- 2 Nature
- 3 Human Being, Man in General
- 4 Society, Civilization, Culture
- 48 art
- 48c the arts; artists
- 48c7 music
- 48c75 making music; musician with instrument
- 48c753 more than one musician with instrument

48CC753 more than one musician with instrument - CC - 'concert champêtre'
art · artist · civilization · concert · culture · group · music · music making · musical instrument ·

48CC753(+0) (+ variant)
48CC753(+1) (+ artist at work)
48CC753(+2) (+ artist in non-work situation)
48CC753(+3) (+ types of art)



Klavecimbel met dubbel klavier in combinatie met een virginaal
1619, Muziekinstrumentenmuseum
CC-BY-NC-SA

Provided datasets/vocabularies

...we and our users are happy...

SUBJECTS, RESOURCE TYPES, GENRES AND FORMS (CONCEPTS) ▾

Concept Term

<http://data.europeana.eu/concept/base/114>

Concept Label

["Sport"] (no); ["ספורט"] (hi); ["Sport"] (de); ["Urheilu"] (fi); ["Спорт"] (be); ["Спорт"] (ru); ["Desporto"] (pt); ["Спорт"] (bg); ["Sportas"] (lt); ["Šport"] (hr); ["Sports"] (lv); ["Sport"] (fr); ["Sport"] (hu); ["Sport"] (bs); ["Ապոր"] (hy); ["Спорт"] (uk); ["Sport"] (sk); ["Šport"] (sl); ["Spórt"] (ga); ["Spòrs"] (gd); ["Esport"] (ca); ["Спорт"] (mk); ["Sporti"] (sq); ["Спорт"] (sr); ["Sport"] (sv); ["스포츠"] (ko); ["Deporte"] (gl); ["Αθλητισμός"] (el); ["Sport"] (en); ["Íþrótt"] (is); ["Sport"] (it); ["体育"] (zh); ["Deporte"] (es); ["Sport"] (et); ["Кирол"] (eu); ["Sport"] (cs); ["پاچه"] (ar); ["Chwaraeon"] (cy); ["スポート"] (ja); ["Idman"] (az); ["Sport"] (pl); ["Sport"] (ro); ["Sport"] (da); ["טראומ"] (he); ["Spor"] (tr); ["Sport"] (nl);

Concept Term

<http://data.europeana.eu/concept/base/61>

Concept Label

["Wochenschau"] (de); ["Journalfilm"] (sv); ["Кінохроніка"] (uk); ["ニュース映画"] (ja); ["Newsreel"] (en); ["Cinegiornale"] (it); ["Kronika filmowa"] (pl); ["Jurnal de actualitate"] (ro); ["Filmhíradó"] (hu); ["בְּלִיטָה"] (he); ["Filmjournaal"] (nl);

TIME SPANS AND DATES (TIMESPAN) ▾

PLACE NAMES (PLACES) ▾

Place Term

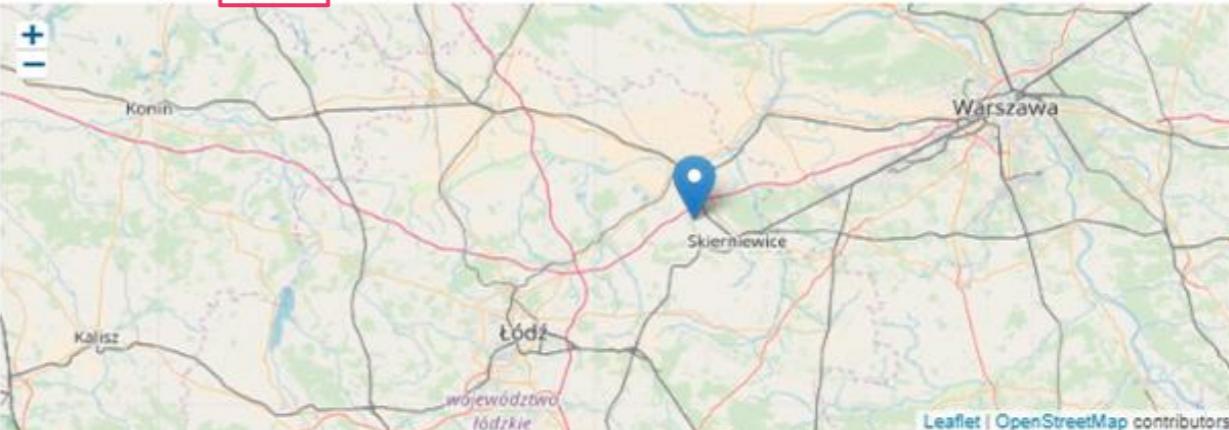
<http://data.europeana.eu/place/base/108>

Place Label

["Republic of Poland"] (); ["ਪਾਲੰਡ"] (hi); ["ఫ్లాండ్రు"] (ps); ["Polónia", "Polônia"] (pt); ["Poljska"] (hr); ["Lengyelország"] (hu); ["ישראל"] (yi); ["Լեհաստան"] (hy); ["Oriféède Polandi"] (yo); ["Polonia"] (ia); ["Polandia"] (id); ["Pulnska", "Pulunya"] (qu); ["Pole"] (af); ["Polonia"] (io); ["Poland"] (ak); ["Pólland"] (is); ["Polonia"] (it); ["అగ్రంధ"] (am); ["Polonia"] (an); ["波兰"] (zh); ["అశ్వ"] (ar); ["ボーランド", "ボーランド共和国"] (ja); ["Polşa"] (az); ["Pologna"] (rm); ["i-Poland"] (zu); ["Polonye"] (rn); ["Polonia", "Полония"] (ro); ["Польша"] (ru); ["Польша", "Польшча"] (be); ["Полша"] (bg); ["Poloni"] (bm); ["Polandia"] (iv); ["పోల్యాణ", "పోల్యాణ్డ"] (bn); ["అశ్వ"] (bo); ["Polonia"] (br); ["Polonia"] (sc); ["Poljska"] (bs); ["Polen", "Polksa"] (se); ["Pötlöni"] (sg); ["అశ్విన్హియా"] (si); ["అశ్విన్హియా"] (ka); ["Połska"] (sk); ["Poljska"] (sl); ["Poland"] (sn); ["Boaland"] (so); ["Polandi"] (ki); ["Poloni", "Polonia"] (sq); ["Polònia"] (ca); ["Пољска"] (sr); ["Польша"] (kk); ["Poleni"] (kl); ["అశ్విణ్ణ"] (km); ["Polen"] (sv); ["అశ్విణ్ణండ్రు"] (kn); ["Poland", "Polandi"] (sw); ["పులండ్ర"] (ko); ["Polonya", "అశ్విణ్ణ"] (ku); ["Poloni"] (kw); ["అపాలంత్తు"] (ta); ["Polisko"] (cs); ["అశ్విణ్ణండ్రు"] (te); ["Пољска"] (cu); ["Лахистон"] (tg); ["Польша"] (cv); ["ప్రాచెక్పిళెన్ట్", "ప్రిపెన్ట్"] (th); ["Polonia"] (la); ["అగ్రంధ"] (ti); ["Gwlad Pwyll"] (cy); ["Polen"] (lb); ["Polonya", "poland"] (tl); ["Polandi"] (lg); ["Poleni"] (to); ["Pole"] (li); ["Polen"] (da); ["Polonya"] (tr); ["Polen"] (de); ["Poloni"] (ln); ["ఇంబెంబు"] (lo); ["Lenkija"] (lt); ["Mpoloni"] (lu); ["Polija"] (lv); ["అశ్విణ్ణ"] (ug); ["Польща"] (uk); ["Pólónia"] (mg); ["అశ్విణ్ణ"] (ur); ["Polksa"] (mk); ["అశ్విణ్ణింగ్"] (ml); ["Poland nutome"] (ee); ["Polsha"] (uz); ["అశ్విణ్ణ"] (mr); ["Poland"] (ms); ["Polonja"] (mt); ["Пољавія"] (el); ["Poland", "Republic of Poland"] (en); ["Polio", "Pollando", "Polujo"] (eo); ["అశ్విణ్ణ"] (my); ["Polonia"] (es); ["Poola"] (et); ["Polonia"] (eu); ["Ba Lan"] (vi); ["Poran"] (na); ["Polen"] (nb); ["Pholandi"] (nd); ["అశ్విణ్ణం"] (ne); ["Polän"] (vo); ["అశ్విణ్ణ", "మెస్కాన"] (fa); ["Polen"] (nl); ["Polen"] (nn); ["Poloñ"] (ff); ["Polen"] (no); ["Puola"] (fi); ["Pólland"] (fo); ["Pologne"] (fr); ["Poalen"] (fy); ["Polonha"] (oc); ["An Pholainn"] (ga); ["A Phòlainn"] (gd); ["అపొలాణ్డ"] (or); ["Польшా"] (os); ["Polonia", "Polonia - Polska"] (gl); ["Polóña"] (gn); ["అశ్విణ్ణ"] (gu); ["Yn Pholynn"] (gv); ["Polan"] (ha); ["Polska", "Rzeczpospolita Polska"] (pl); ["అశ్విణ్ణ"] (he);



Media Metadata

Title	Mistrzostwa Polski w żeglarstwie
Description	Zagłówki pływające po Bałtyku podczas rozgrywanych Mistrzostw Polski w żeglarstwie.
People	Contributor: Polska Agencja Telegraficzna
Classifications	Type: Newsreel Subject: Bałtyk, 1935, загłówка, regaty, morze, kronika, sport
Properties	Language: pl
Time	Date: 20-th, 20th, 20th century Creation Date: 1935
Location: Bałtyk, Poland, Republic of Poland	
 BAŁTYK 52.0° North, 20.0° East	

Entities

- [SUBJECTS, RESOURCE TYPES, GENRES AND FORMS \(CONCEPTS\)](#)
- [TIME SPANS AND DATES \(TIMESPAN\)](#)
- [PLACE NAMES \(PLACES\)](#)

SUBJECTS, RESOURCE TYPES, GENRES AND FORMS (CONCEPTS)

TIME SPANS AND DATES (TIMESPAN)

PLACE NAMES (PLACES)

Trompe L'oeil. Board Partition with letter
rack and music book
Cornelius Nobertus Gijsbrechts, 1618
NaStatens Museum for Kunst, Denmark
CC0

Supporting documentation for quality recommendations



Metadata Quality - first steps



→ Report and Recommendations from the
Task Force on Metadata Quality

Task Force Chair: Marie-Claire Dangerfield (EF)

Task Force Co-Chair: Lisette Kalshoven (KL)

December 2013 - May 2015.

Metadata quality is controlled by a set of processes which ensures that cultural heritage objects can be identified, discovered and seen in context by audiences, in a manner appropriate to the context in which the data provider created them. Metadata must include information on the potential re-use of cultural heritage objects.

[Metadata Quality Task Force Report](#)
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Publishing Guide, Publishing Framework, et al.



Europeana Content Strategy

Our new Content Strategy will help our organisation and partners to identify what kind of content we need to expand, what content we need to restrain, and who takes ownership of the decision making process.

[SEE MORE](#)

Publishing Framework

The Europeana Publishing Framework makes it easy for you, our data partners, to see how the quality of the metadata and content you provide affects how we can surface, showcase and promote it on Europeana Collections and beyond, and how others can view it, share it and work with it.

[SEE MORE](#)

Europeana Publishing Guide

The Europeana Publishing Guide is a resource for data partners who share collections with Europeana. It outlines the minimum metadata required to incorporate your data in Europeana.

[SEE MORE](#)

Europeana Publishing Guide structures the relationship between Europeana and its data providers (rights on metadata and content)

Europeana Publishing Framework defines recommendations for high-quality content and encourage institutions to open their data (EDM mandatory elements, accurate rights labels, direct links to object/hires images)

[Documentation for Existing provider](#)

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Task Forces & Working Groups



TASK FORCE

22 May 2018 - 31 December 2018

By Gregory Markus

Creation and Governance of EDM mappings, profiles and extensions

[Data publication](#) [Academic Research](#) [EuropeanaTech](#)

The Task Force aims to set principles of a future governance model for EDM mappings, profiles and extensions.

[VIEW PROJECT](#)



WORKING GROUP

1 August 2017

By Adina Ciocoiu

By Antoine Isaac

Data Quality Committee

[Data standards](#) [Cultural Heritage Institutions](#)

Quality is a key priority for our whole community! The Data Quality Committee works to address key data quality issues over time. The Data Quality Committee is a EuropeanaTech Working Group

[VIEW PROJECT](#)



WORKING GROUP

20 August 2017

By Julia Fallon

Copyright Policy Working Group

[Legal standards](#) [Cultural Heritage Institutions](#) [copyrightreform](#)

The aim of this working group is to work together with those actively engaged in copyright and make sure we align everyone's interests wherever possible.

[VIEW PROJECT](#)

[Europeana Network Association – Task Forces](#)

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Europeana Pro - go explore or reach out

About Our priorities Latest events

NEWS



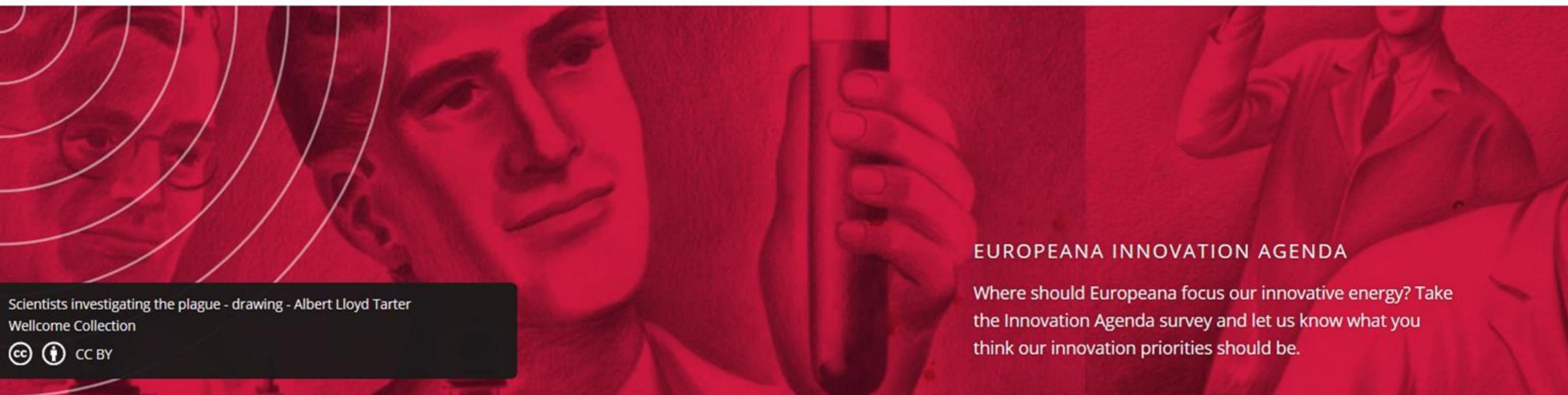
How can online tools promote historical thinking? A teacher training guide now available



Trip report: International Semantic Web Conference 2018



How to bring digital cultural heritage to 3D design and virtual reality



Scientists investigating the plague - drawing - Albert Lloyd Tarter
Wellcome Collection

CC BY

EUROPEANA INNOVATION AGENDA

Where should Europeana focus our innovative energy? Take the Innovation Agenda survey and let us know what you think our innovation priorities should be.

[Europeana Pro homepage](#)

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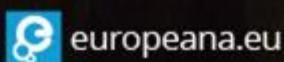


2018 
**EUROPEAN YEAR
OF CULTURAL
HERITAGE**
#EuropeForCulture

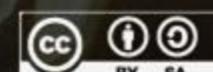


adina.ciocoiu@europeana.eu

22 November 2018



@EuropeanaEU



Co-financed by the European Union
Connecting Europe Facility



The Music Lesson
Louis Moritz
1808, Rijksmuseum
Netherlands, Public Domain