Insects and Fruit
Jan van Kessel
1660 - 1665, Rijksmuseum
Netherlands, Public Domain

europeana

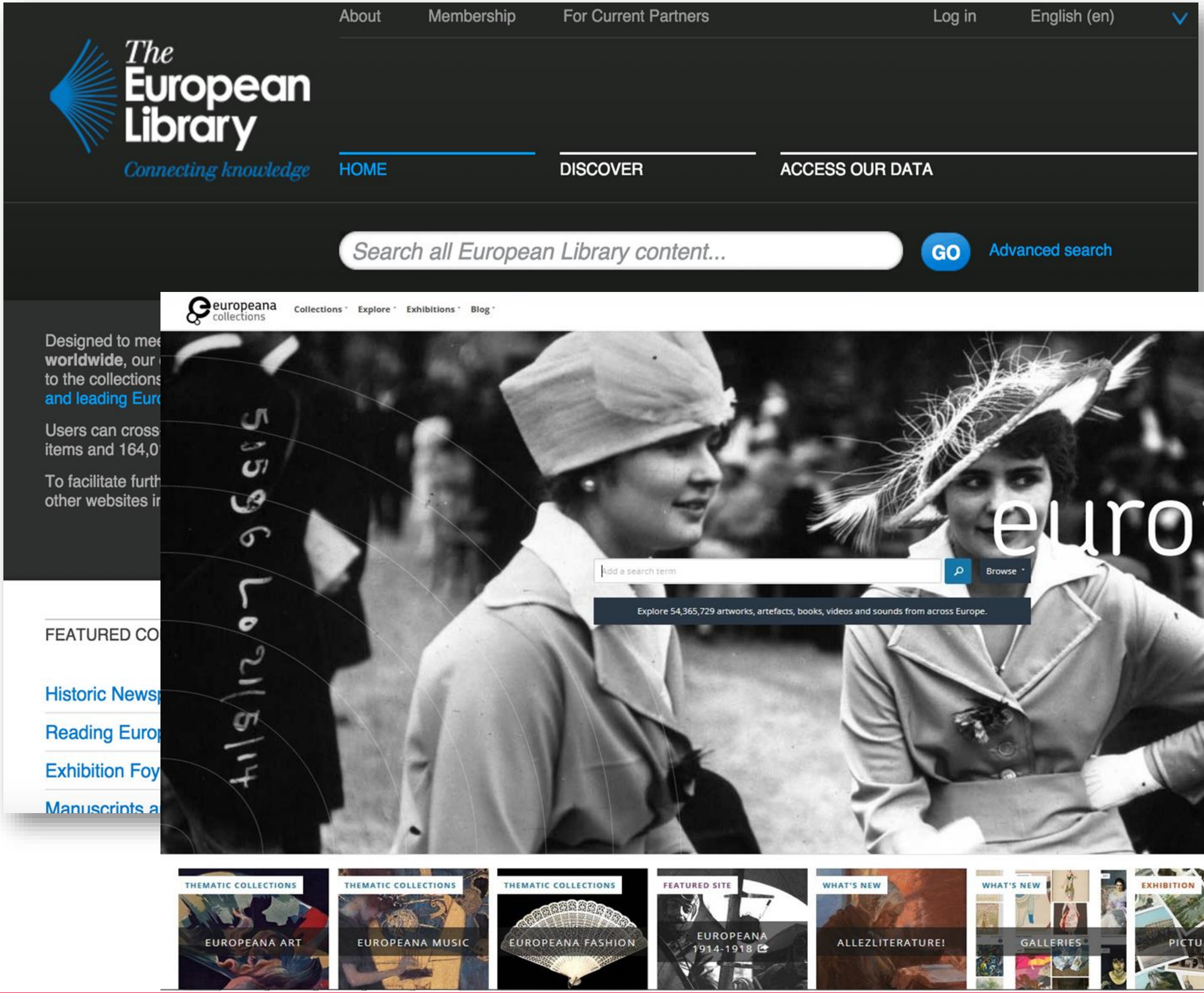
Working with Europeana: metadata matters

Adina Ciocoiu | D-fest, Zagreb, 27 April 2017

Co-financed by the European Union
Connecting Europe Facility

WHO WE ARE

Concerto de Amadores | Columbano Bordalo Pinheiro
1882, Museu do Chiado – Museu Nacional de Arte Contemporânea,
Portugal, PDM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to the collections
and leading Eur
Users can cross
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other websites ir
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Exhibition Foy
Manuscripts a
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Browse
Explore 54,365,729 artworks, artefacts, books, videos and sounds from across Europe.
Mode à Longchamp, Agence de presse Meurisse
Bibliothèque nationale de France
Public Domain
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EUROPEANA ART
THEMATIC COLLECTIONS
EUROPEANA MUSIC
THEMATIC COLLECTIONS
EUROPEANA FASHION
FEATURED SITE
EUROPEANA 1914-1918
WHAT'S NEW
ALLEZLITERATURE!
WHAT'S NEW
GALLERIES
EXHIBITION
PICTURE THIS!
FEATURED SITE
TRANSCRIBATHON
FEEDBACK

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Some achievements

- >3,700 institutions share their collections online
- >54 millions of records available
- CC0 for metadata
- Standardised rich data model (EDM)
- All records include a standardised rights statement

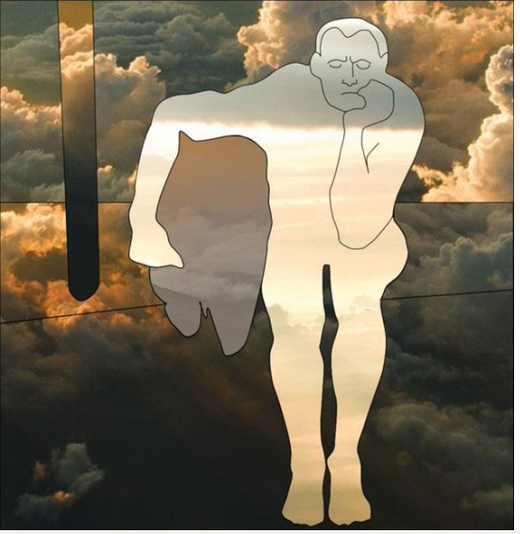
CC-BY-SA

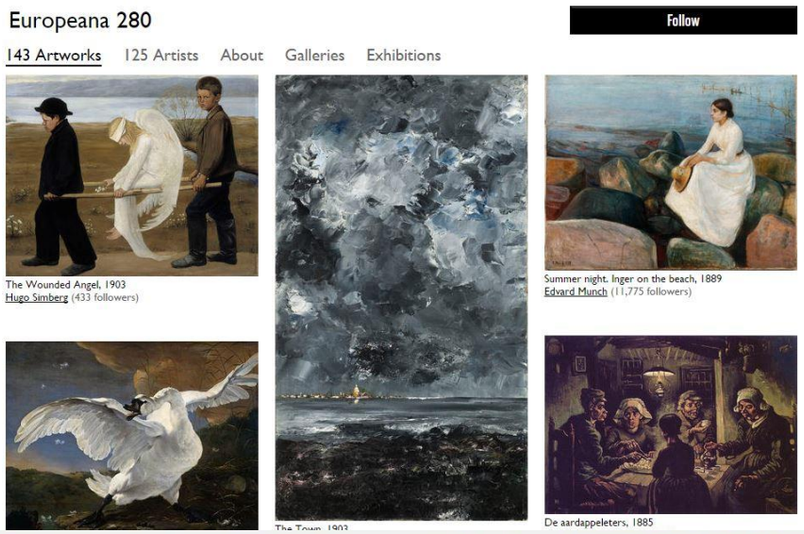
What is Europeana now?

- A **network** of like-minded heritage and technology professionals
- An **open data platform** drawing on the collections of nearly 4000 European GLAMs

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!

[Europeana Strategy homepage]
Europeana| CC BY-SA




Europeana 280
Follow
143 Artworks
125 Artists
About
Galleries
Exhibitions
The Wounded Angel, 1903
Hugo Simberg (433 followers)
Summer night. Inger on the beach, 1889
Edvard Munch (11,775 followers)
De aardappeleters, 1885

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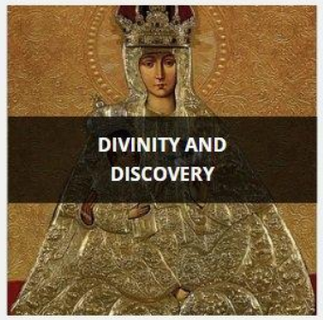
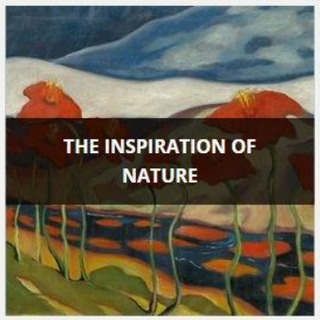
EUROPEANA ART HISTORY
Paintings
Sculptures
Art history publications
Sandro Botticelli
Spotlight on Alexander Roslin
Europeana 280 - Denmark

INTRODUCTION


DIVINITY AND DISCOVERY

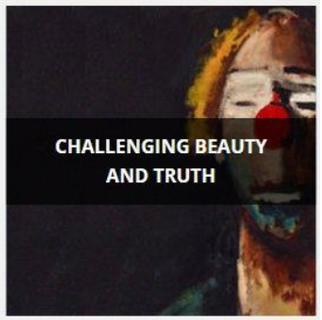
BAROQUE AND ENLIGHTENMENT

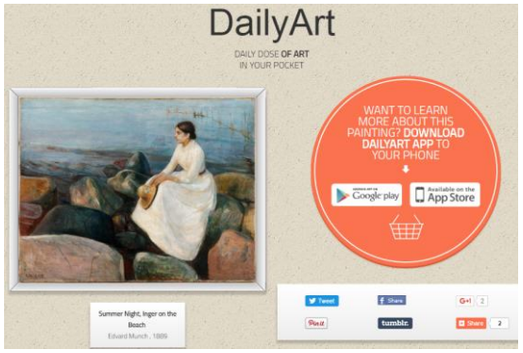
REVOLUTION AND WAR

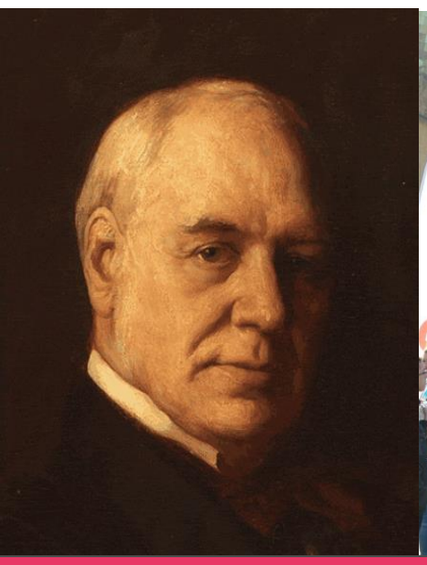

THE INSPIRATION OF NATURE

ACADEMIC ART AND NEW DIRECTIONS

PAINTING MODERN LIVES


CHALLENGING BEAUTY AND TRUTH


DailyArt
DAILY DOSE OF ART IN YOUR POCKET
WANT TO LEARN MORE ABOUT THIS PAINTING? DOWNLOAD DAILYART APP TO YOUR PHONE
Google play
App Store
Summer Night, Inger on the Beach
Edvard Munch, 1896



WROCŁAW 2016
#BikeArtRide

#Jumpinglacks

Europeana.eu added 4 new photos.
Published by Aleksandra Strzelichowska [?] · November 1 at 10:23am ·
Time to change the cover image! It's a special #Movember edition, so choose the painting with the best mustaches from this #Europeana280 selection. Vote by liking your favourite painting!
6,591 people reached
Boost Post
Like
Comment
Share
Malinka Yaneva, Tobar An Dualchais and 67 others
Top Comments
15 shares

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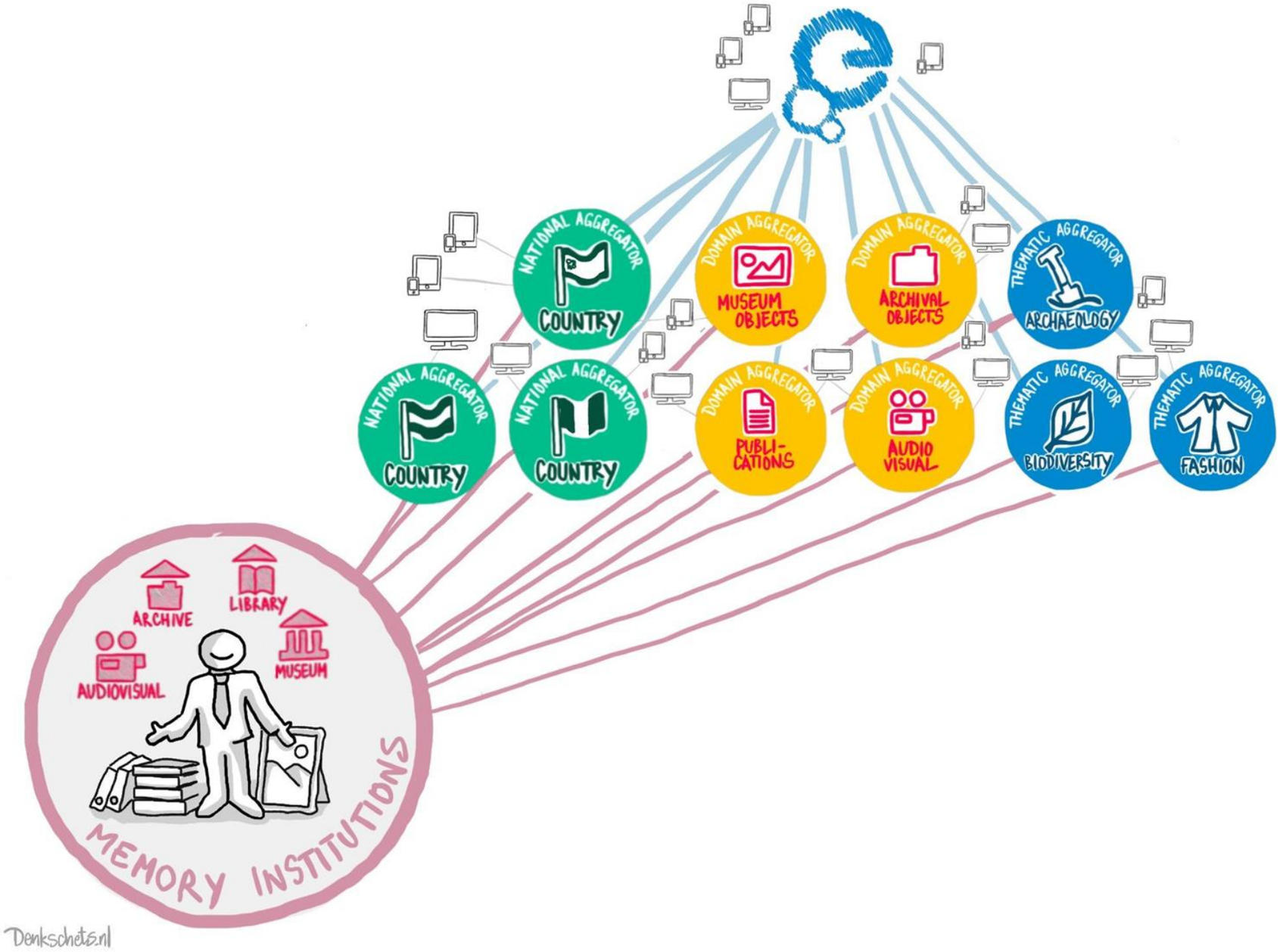
WHAT WE DO

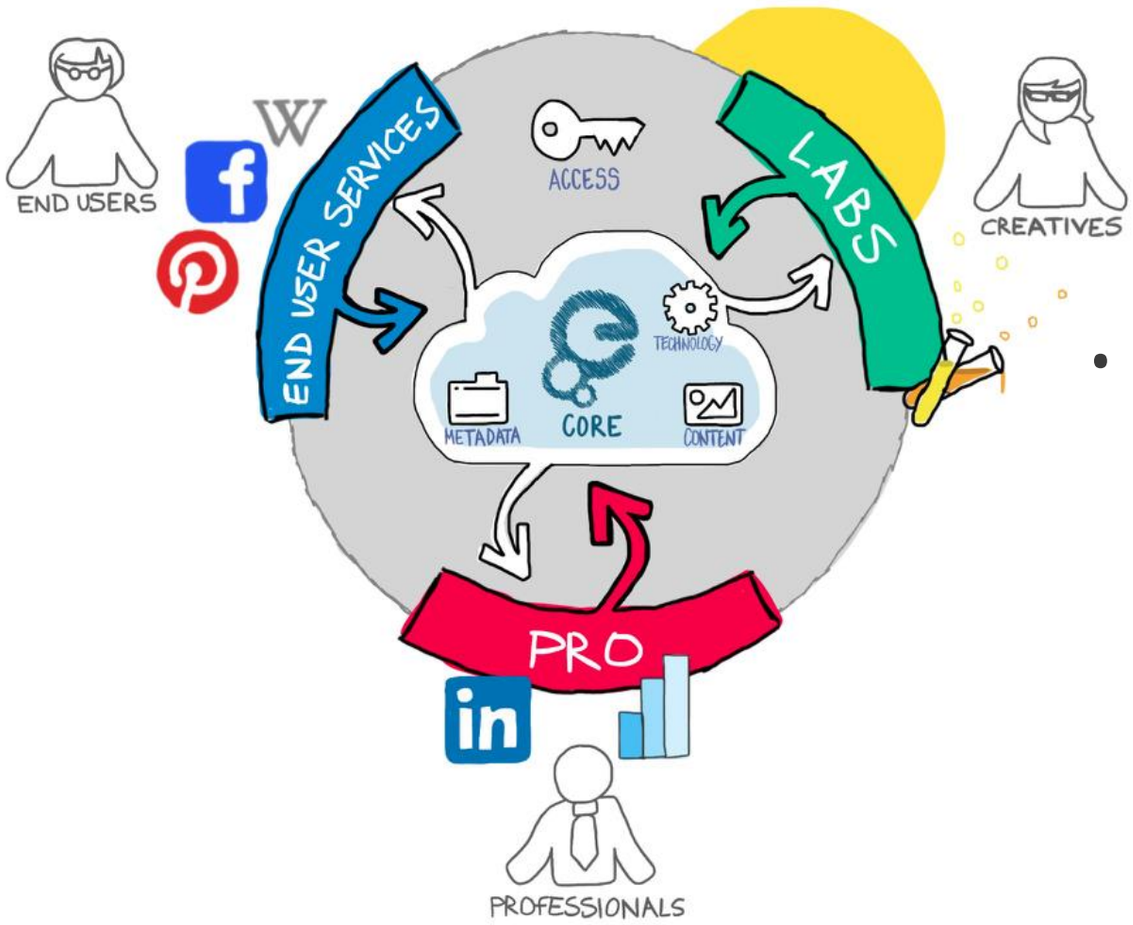
Arrival of a Portuguese ship
Anonymous
1660 - 1625, Rijksmuseum
Netherlands, Public Domain

Aggregation



[Europeana aggregation infrastructure](#)
Europeana | CC BY-SA

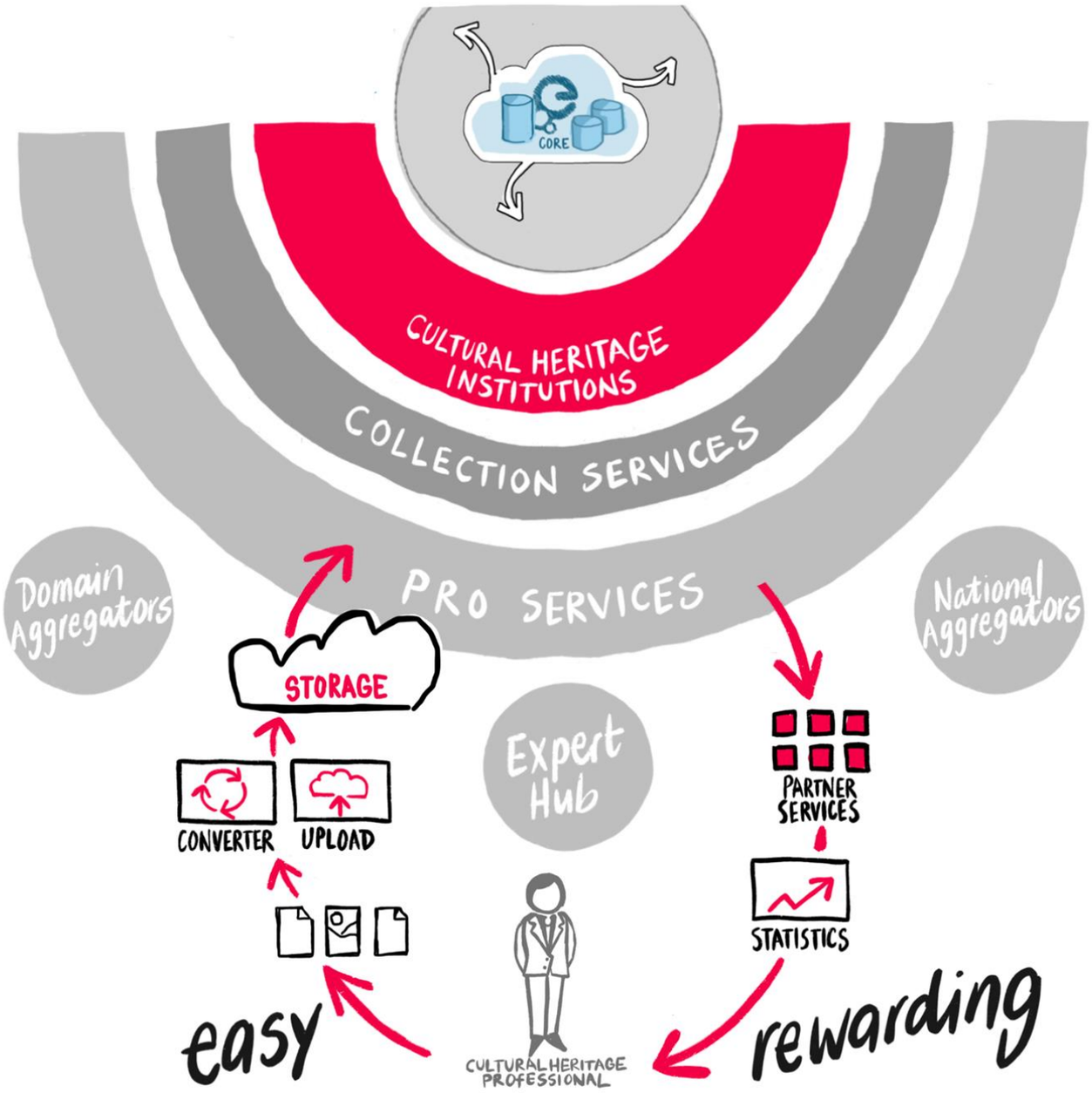
Europeana Data Model



- Europeana aggregates, processes, enriches metadata from the cultural heritage sector in Europe using EDM
- Provides a portal for users to access data and objects
- Metadata under Creative Commons Zero - public domain
- Previews and links to source

CC-BY-SA

Services for data partners



Europeana data partner services
Europeana | CC BY-SA

HOW WE DO IT - EUROPEANA DATA MODEL (EDM)

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

From this...

‹ead› Encoded Archival Description
Version 2002 Official Sit

MODS Metadata Object Description Schema
Official Web Site

ISAD(G): General International Standard Archival Description

CIDOC CRM

S P E C T R U M

MARC 21

AACR

Dublin Core® Metadata Initiative
Making it easier to find information.

METS Metadata Encoding & Transmission Standard
Official Web Site

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

CC-BY-SA

… 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

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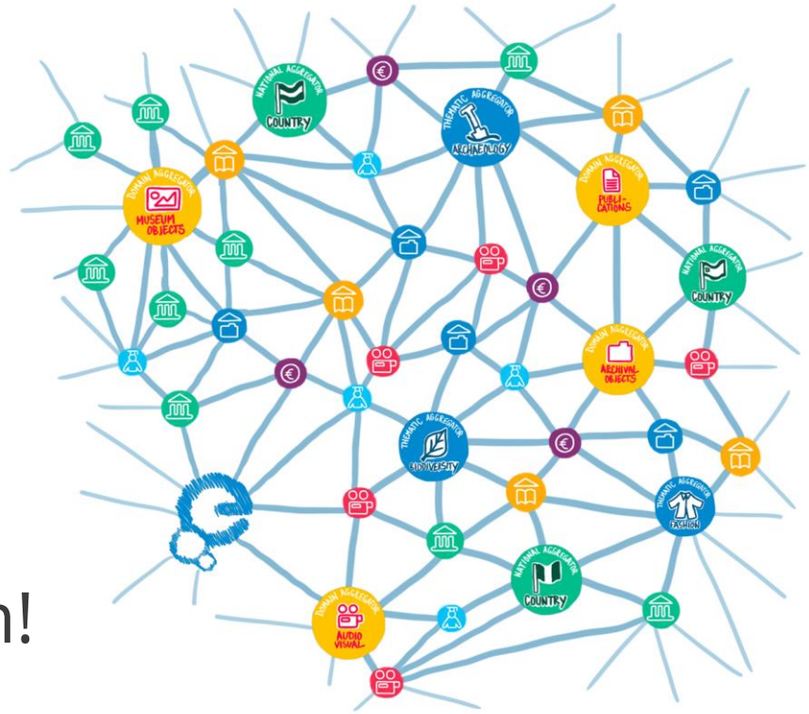
Europeana Data Model (EDM)



- Cross-community re-use of data models
- Models that re-uses existing models
- Semantic Web technology allows mixing them!
- Collaborative, softer form of standardisation

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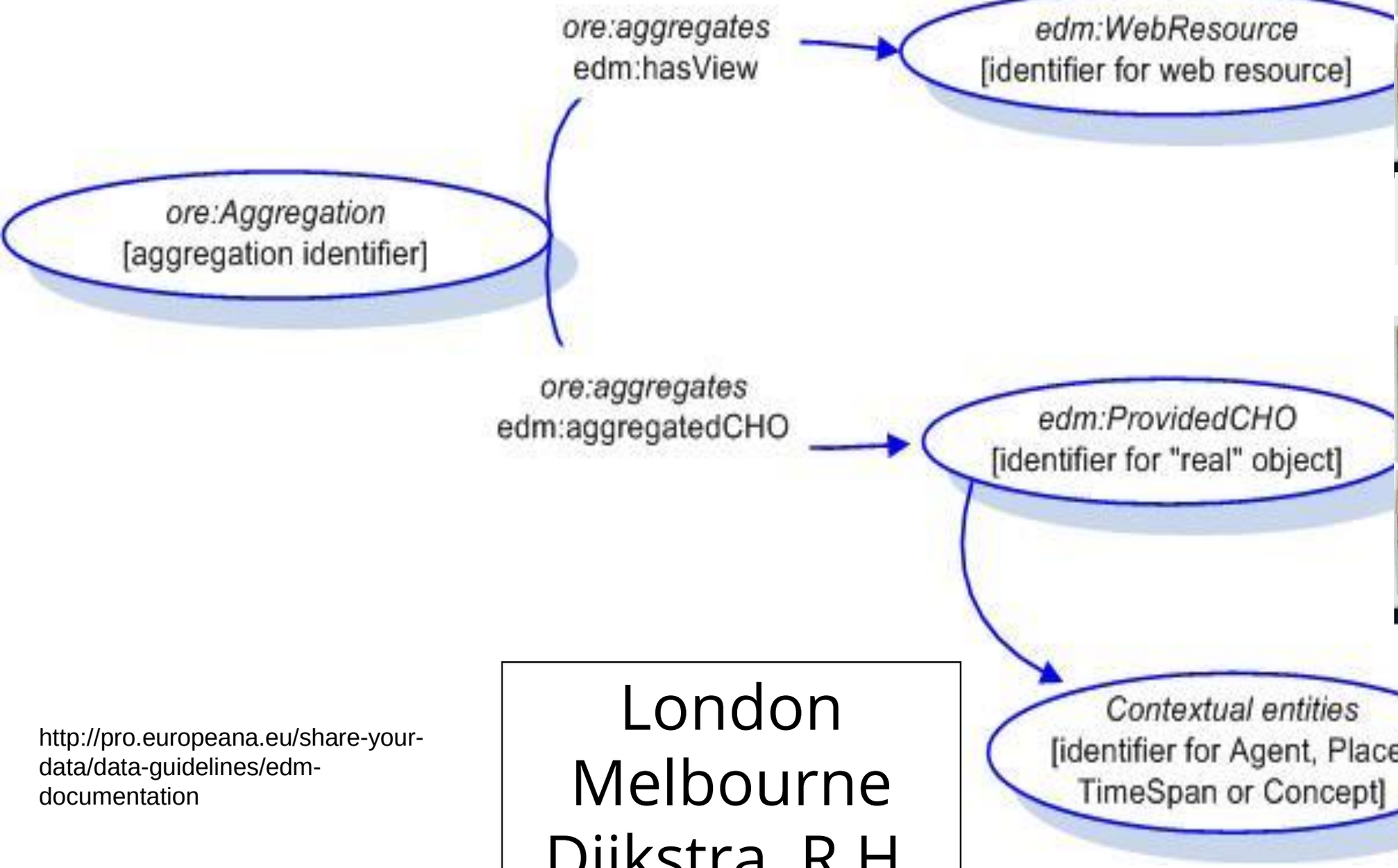
EDM basic pattern



Format: image/jpeg
File size: 47.7 KB

London
Melbourne
Dijkstra, R.H.

http://pro.europeana.eu/share-your-data/data-guidelines/edm-documentation

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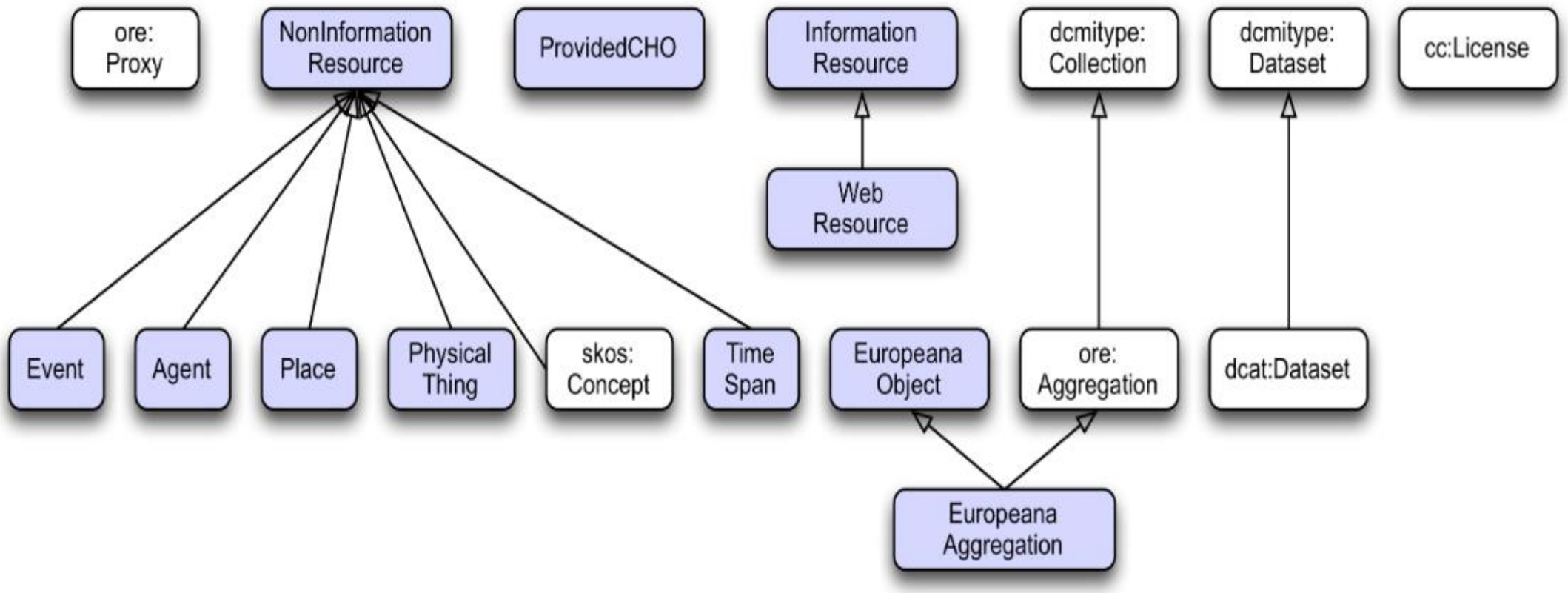
EDM specification

Specification of the Europeana Data Model



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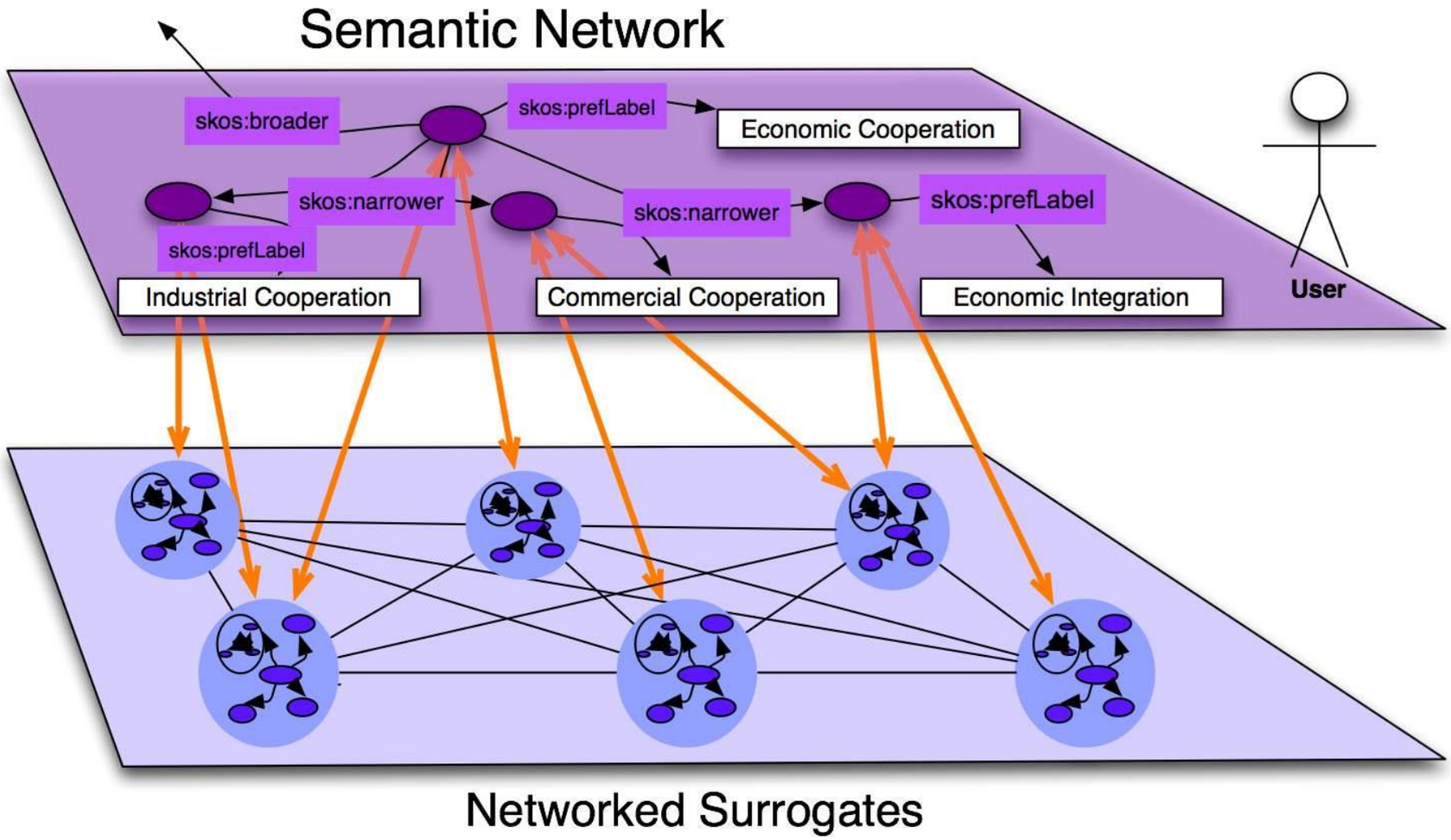
Connect to other domains

- Create a “semantic layer” on top of cultural heritage objects



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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 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)
O 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
O 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	O dcterms:spatial
dc:rights	dcterms:tableOfContents
+ dc:source	O dcterms:temporal
O dc:subject	edm:currentLocation
➔ dc:title	edm:hasMet
O 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

EDM in the Europeana platform

Building semantic links between objects
EDM allows Europeana to build a network of digital and born-digital cultural heritage objects thanks to the representation of semantic links and relationships between objects.

Building a network of contextual information
Europeana builds its “Semantic Layer” by linking to contextual resources (e.g. concepts, persons, places).

Related items:

Allgemeine Österreichische Gerichtszeitung (2298)

- view items above
- Allgemeine Österreichische Gerichtszeitung - 1911-01-14
- 1796. Allgemeine Österreichische Gerichtszeitung - 1911-01-21
- 1797. Allgemeine Österreichische Gerichtszeitung - 1911-01-28
- 1798. Allgemeine Österreichische Gerichtszeitung - 1911-02-04
- 1799. Allgemeine Österreichische Gerichtszeitung - 1911-02-11
- 1800. Allgemeine Österreichische Gerichtszeitung - 1911-02-18
- 1801. Allgemeine Österreichische Gerichtszeitung - 1911-02-25
- 1802. Allgemeine Österreichische Gerichtszeitung - 1911-03-04
- 1803. Allgemeine Österreichische Gerichtszeitung - 1911-03-11
- 1804. Allgemeine Österreichische Gerichtszeitung - 1911-03-18
- 1805. Allgemeine Österreichische Gerichtszeitung - 1911-03-25
- 1806. Allgemeine Österreichische Gerichtszeitung - 1911-04-01
- 1807. Allgemeine Österreichische Gerichtszeitung - 1911-04-08
- 1808. Allgemeine Österreichische Gerichtszeitung - 1911-04-15
- 1809. Allgemeine Österreichische Gerichtszeitung - 1911-04-22
- 1810. Allgemeine Österreichische Gerichtszeitung - 1911-04-29

view items below

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Technical metadata

Title **A man building a wig on to the head of a woman on a kind of**

Entities **SUBJECTS, RESOURCE TYPES, GENRES AND FORMS (CONCEPTS)**

CONCEPT TERM

http://dbpedia.org/resource/Costume

CONCEPT LABEL

["Kostyum"] (az); ["Janzkera"] (eu); ["Kostyme"] (no); ["زي وطني"] (ar); ["Kostiumas"] (lt); ["תחפושת"] (he); ["Traje"] (pt); ["Kostium"] (pl); ["Costume"] (fr); ["Носия"] (bg); ["Dräkt"] (sv); ["Costume"] (en); ["衣装"] (ja); ["Kostuum"] (nl);

CONCEPT TERM

http://dbpedia.org/resource/Fashion

CONCEPT LABEL

["Mode"] (de); ["時装"] (zh); ["Moda"] (it); ["Moda (styl)"] (pl); ["Moda"] (pt); ["Mode (habillement)"] (fr); ["Mode"] (sv); ["Fashion"] (en); ["Мода"] (ru); ["Moda"] (es); ["ファッション"] (ja); ["Mode"] (nl);

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Maintaining EDM as an open and living standard

- Enables better data quality in Europeana
- The model is well- documented and openly shared

- Different documentation is produced for the various profiles of EDM
  - Allows the identification of new domain specific requirements while maintaining the interoperability

- Community joint effort

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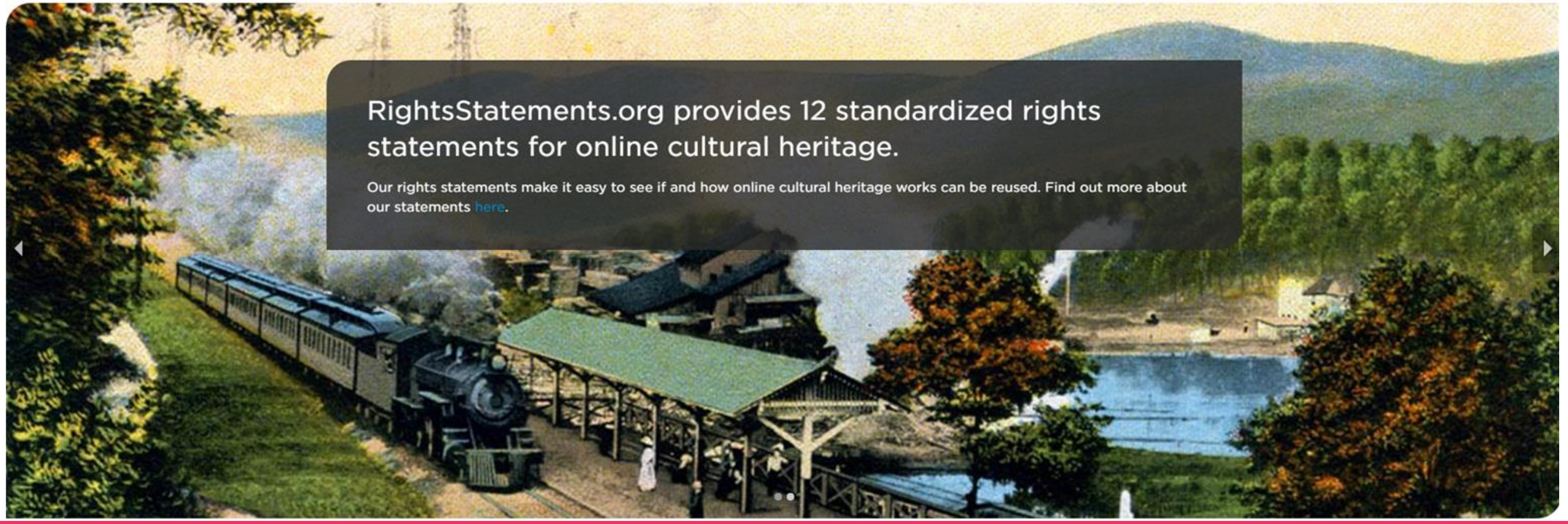
Finer-grained representation of rights information

- standardised rights statements for online cultural heritage
- joint initiative of Europeana and the Digital Public Library of America (DPLA)

http://rightsstatements.org/en/



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DPLA DIGITAL PUBLIC LIBRARY OF AMERICA

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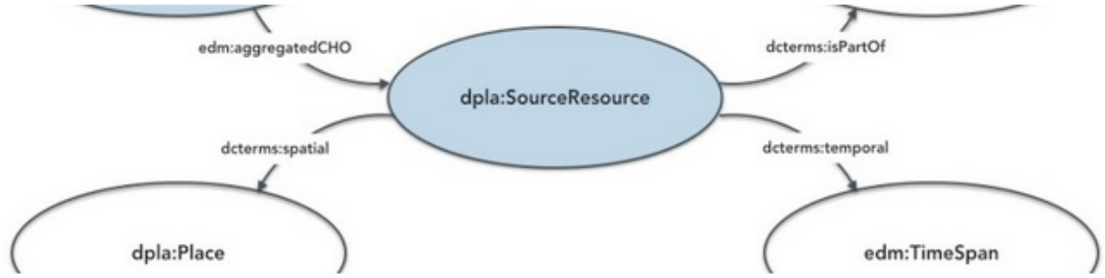
For Developers

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

Search this site



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

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

CONTENT STRATEGY & PUBLISHING FRAMEWORK

EUROPEANA CONTENT STRATEGY:
“GET THE RIGHT CONTENT TO THE RIGHT USER AT THE RIGHT TIME”

(Content Strategy Alliance definition of content strategy)

Twee monsters bereden door apen and Groteske figuren omgeven door een kaderlijn
Arent van Bolten
c.1604-c.1616, Rijksmuseum
Netherlands, Public Domain

Content Strategy

The principles

- Quality instead of quantity
- Demand driven content acquisition and publication

CC-BY-SA

Content Strategy Principles

http://pro.europeana.eu/publication/content-strategy

- Inclusive to all type of content, but prioritisation according to user demand

- Masterpieces as well as lesser known collections

- Date range: encourage cultural institutions to provide 20th century material for educational purposes

- Crowdsourced content

CC-BY-SA

Content Strategy Principles

http://pro.europeana.eu/publication/content-strategy

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

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

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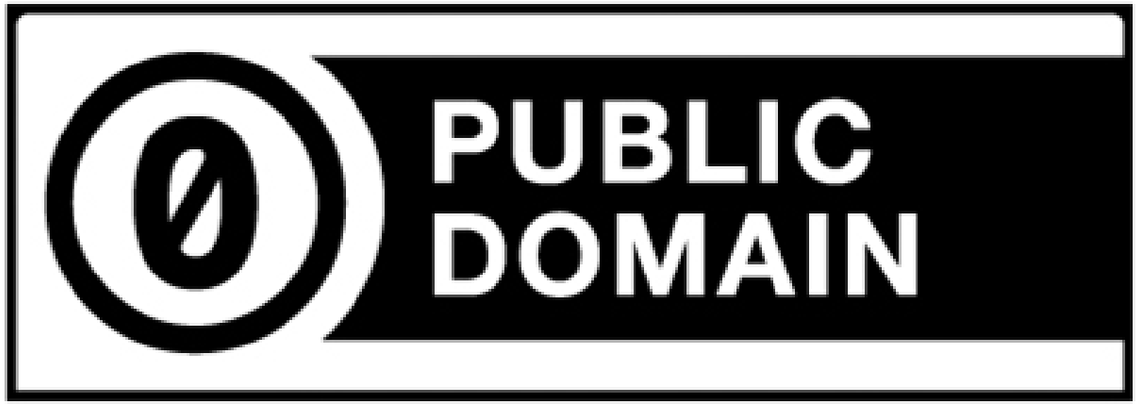
Europeana IPR

Creating best practice licensing standards for sharing cultural heritage online

- Europeana Licensing Framework - what data partners can share and what audiences can access
- Advocacy Framework - giving cultural heritage institutions a voice at a European level
- EU Copyright Reform - helping to make more shared heritage available online



[CC0 public domain dedication logo](#)
Creative Commons | Public Domain

CC-BY-SA

Europeana Publishing Framework

Here you see how the different tiers of the publishing framework work. In this example we use images. For video, audio, text and 3D, please see the Europeana Publishing Framework Appendix.

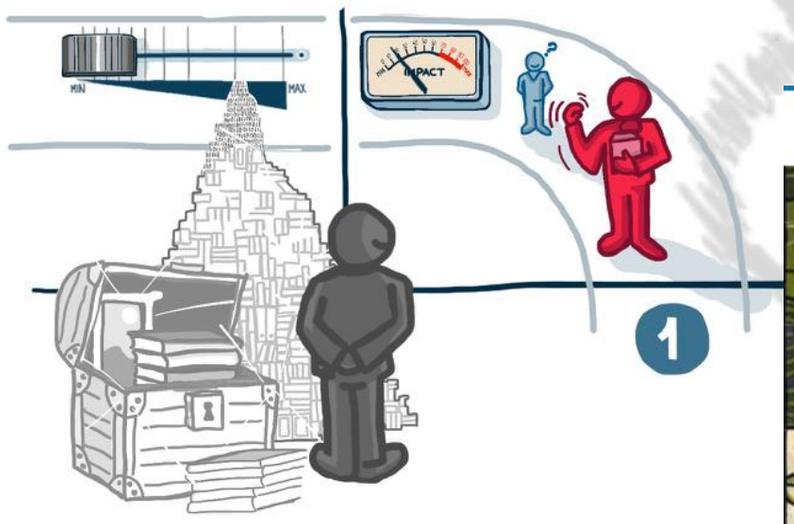
TIER	DIRECT LINK TO OBJECT PROVIDED	RIGHTS STATEMENTS	EUROPEANA API DISPLAYS	BENEFITS (CUMULATIVE)
1 Europeana as a search engine. ***'I want people to find my collections'***	No	Any from the Europeana licensing Framework	Metadata, no direct link to object	**Findability** - indexed by search engines, linked data technology **Web traffic** - click-throughs to your site **Analytics** - from our statistics dashboard
2 Europeana as a showcase. ***'I want people to find and view my collections on Europeana'***	Yes. Minimum of 800+ pixels wide	Any from the Europeana licensing Framework	Metadata plus direct link to object	**Use in thematic channels** - providing context and relation to other collections on Europeana **More marketing** through Europeana
3 Europeana as a distribution platform for non-commercial re-use. ***'I want people to find, view and use my collections - but not for commercial gain'***	Yes. Minimum of 1,200+ pixels wide recommended	Any from the Europeana licensing framework that allow for some re-use	Metadata plus direct link to object and can filter to show only re-usable objects	**Impressions** - collections viewed on platforms outside of Europeana **Use in Europeana's existing partnerships and projects** in e.g. education and research **Use in apps and services** by third parties
4 Europeana as a free re-use platform. ***'I want people to find, view and use my content - however they want'***	Yes. Minimum of 1,200+ pixels wide recommended	Any from the Europeana licensing framework that allow free and open access	Metadata plus direct link to object and can filter to show only re-usable	**Use on open platforms** like Wikimedia **Use by creative industry and tourism sectors** **Use in commercial apps and services**

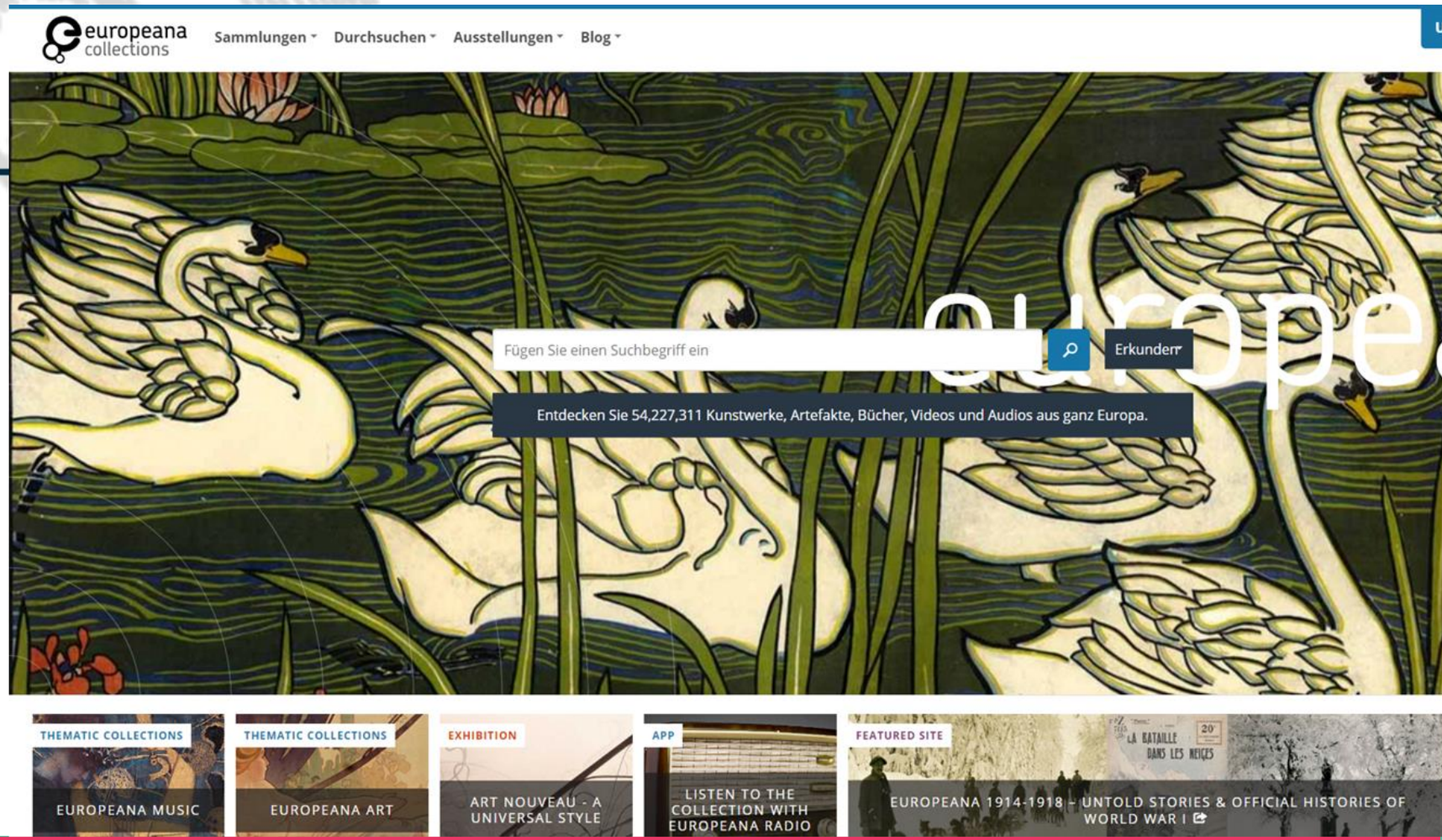
CC-BY-SA

A search engine - Tier 1

WHAT YOU GIVE | WHAT YOU GET

Any Europeana rights statement and a preview >0.1 megapixel
(for image & video collections)





CC-BY-SA

A showcase - Tier 2

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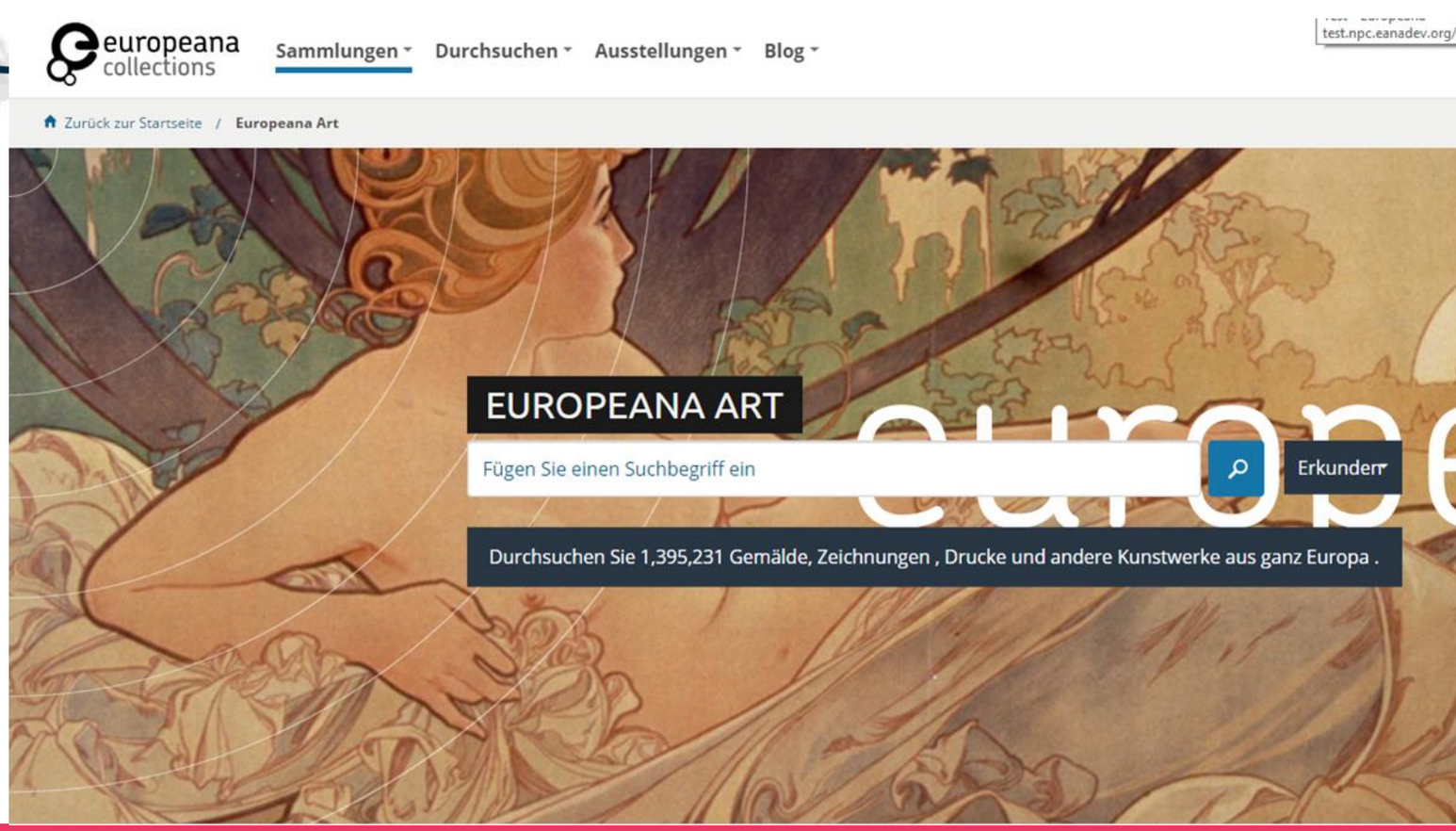

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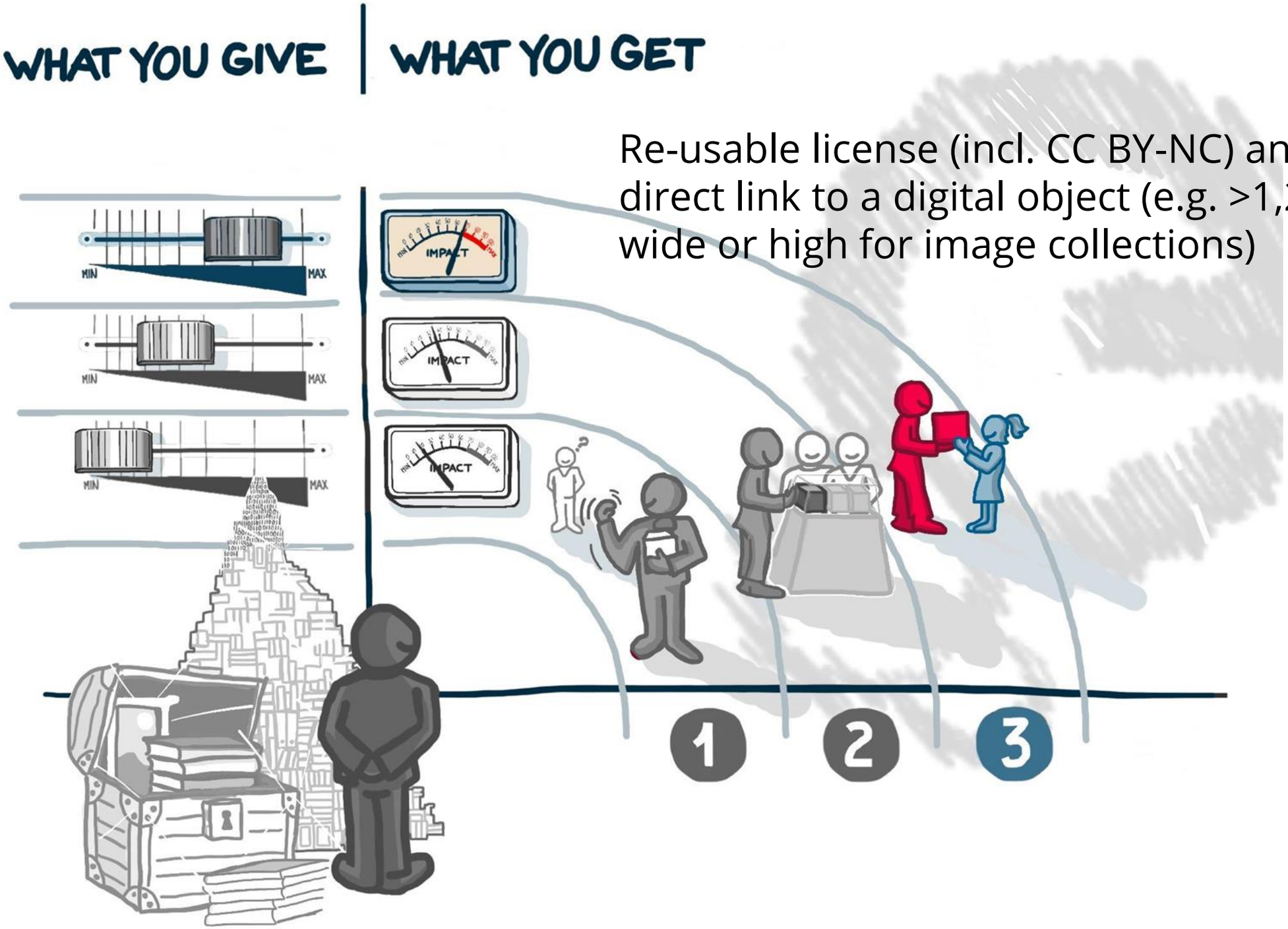

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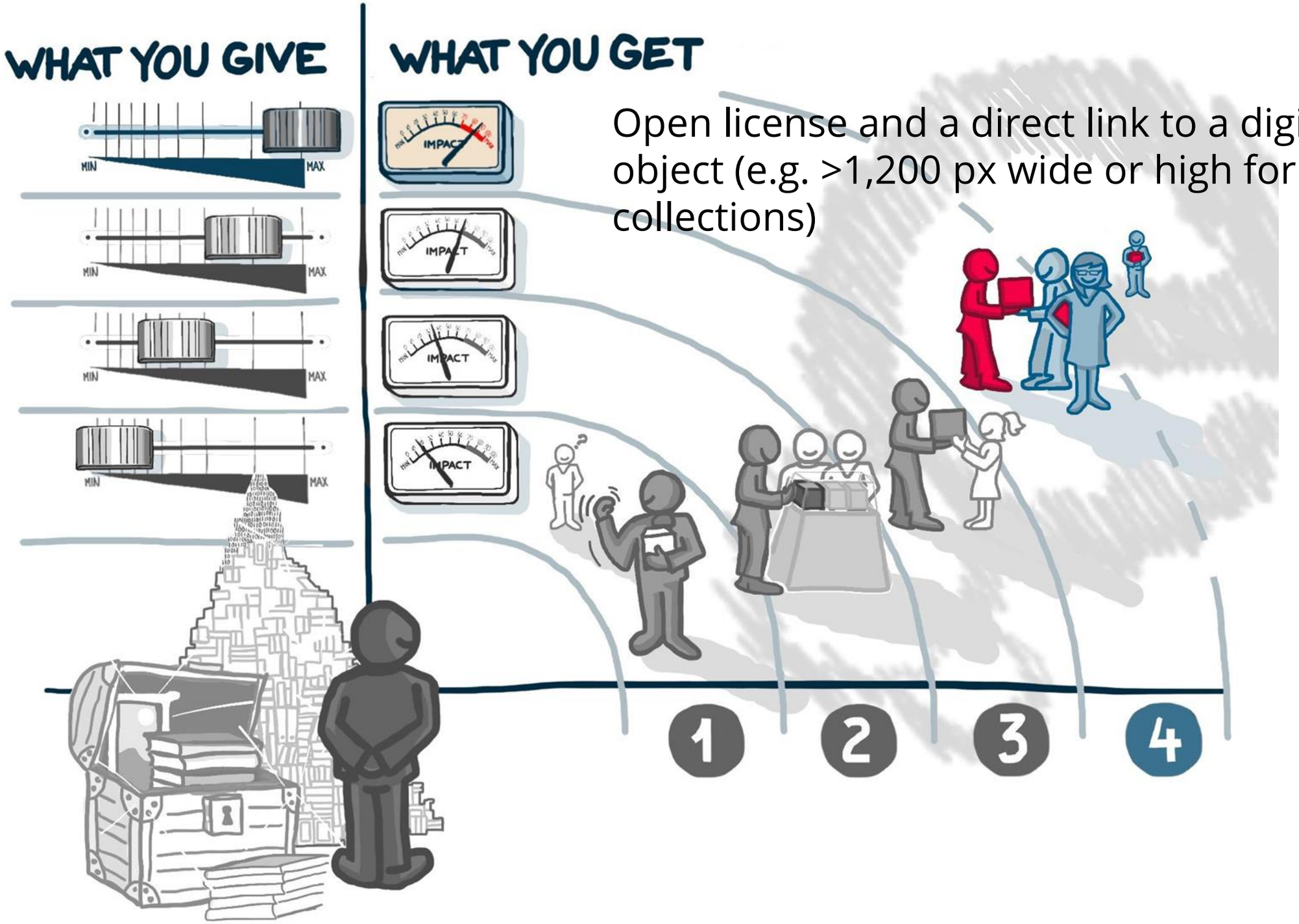

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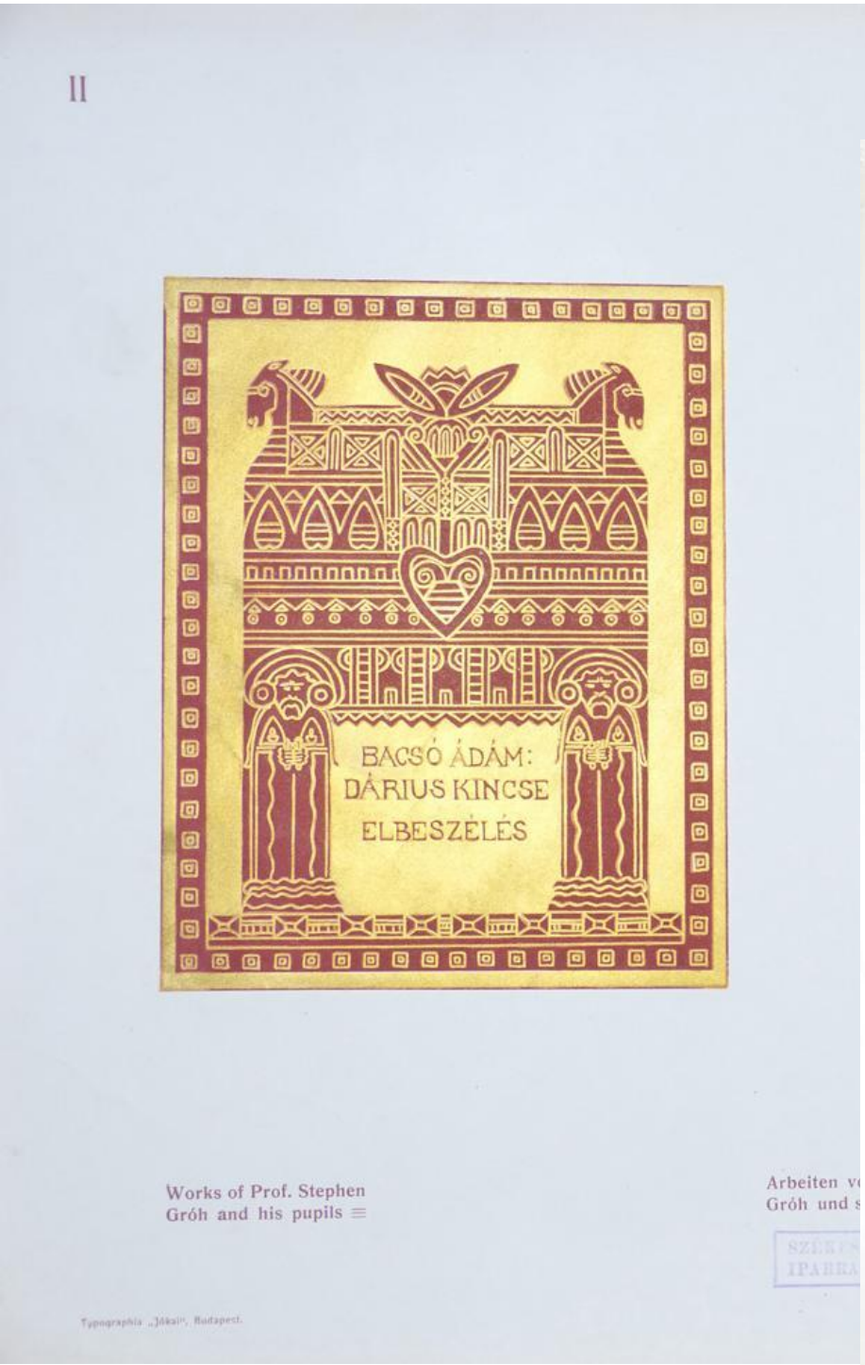

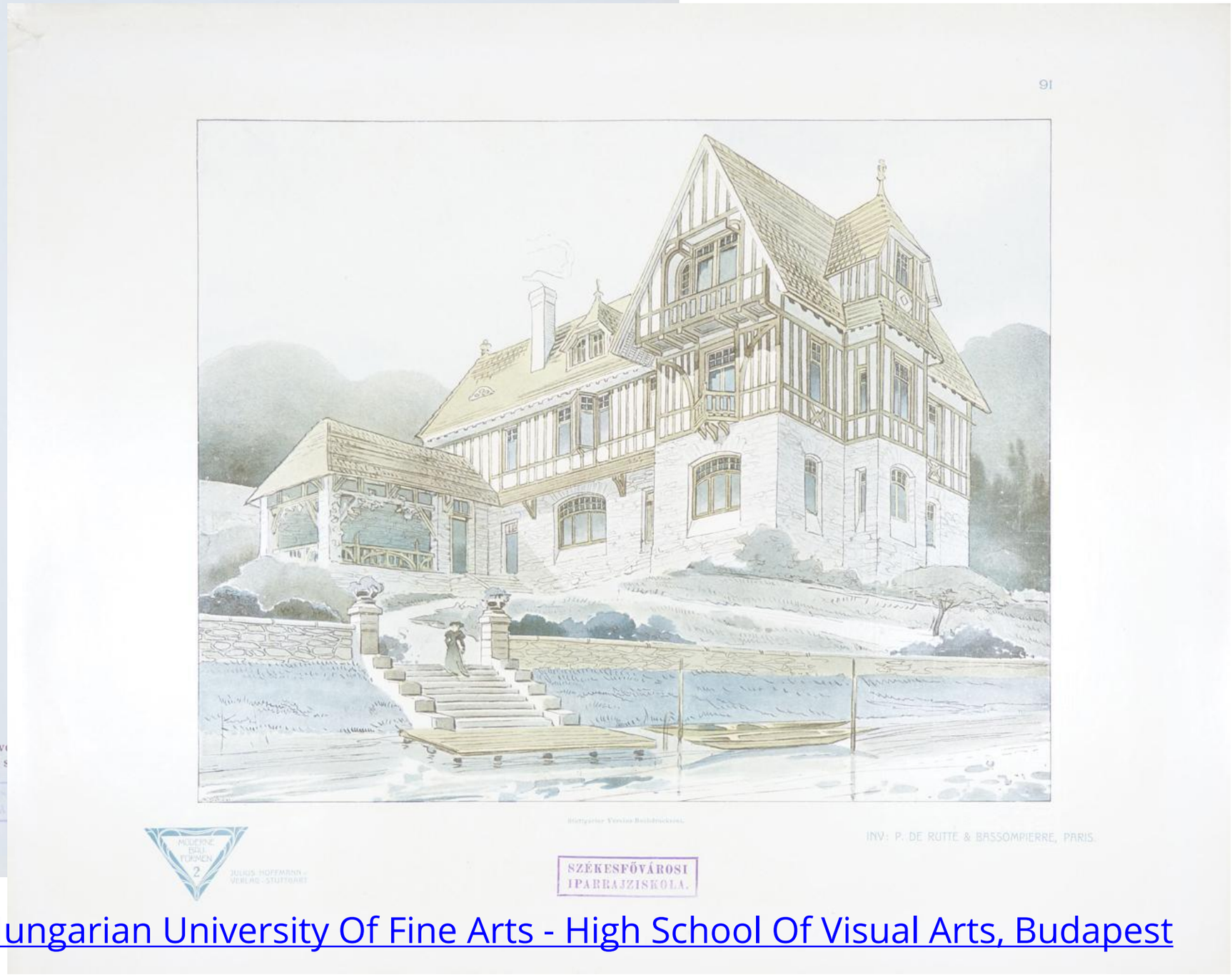

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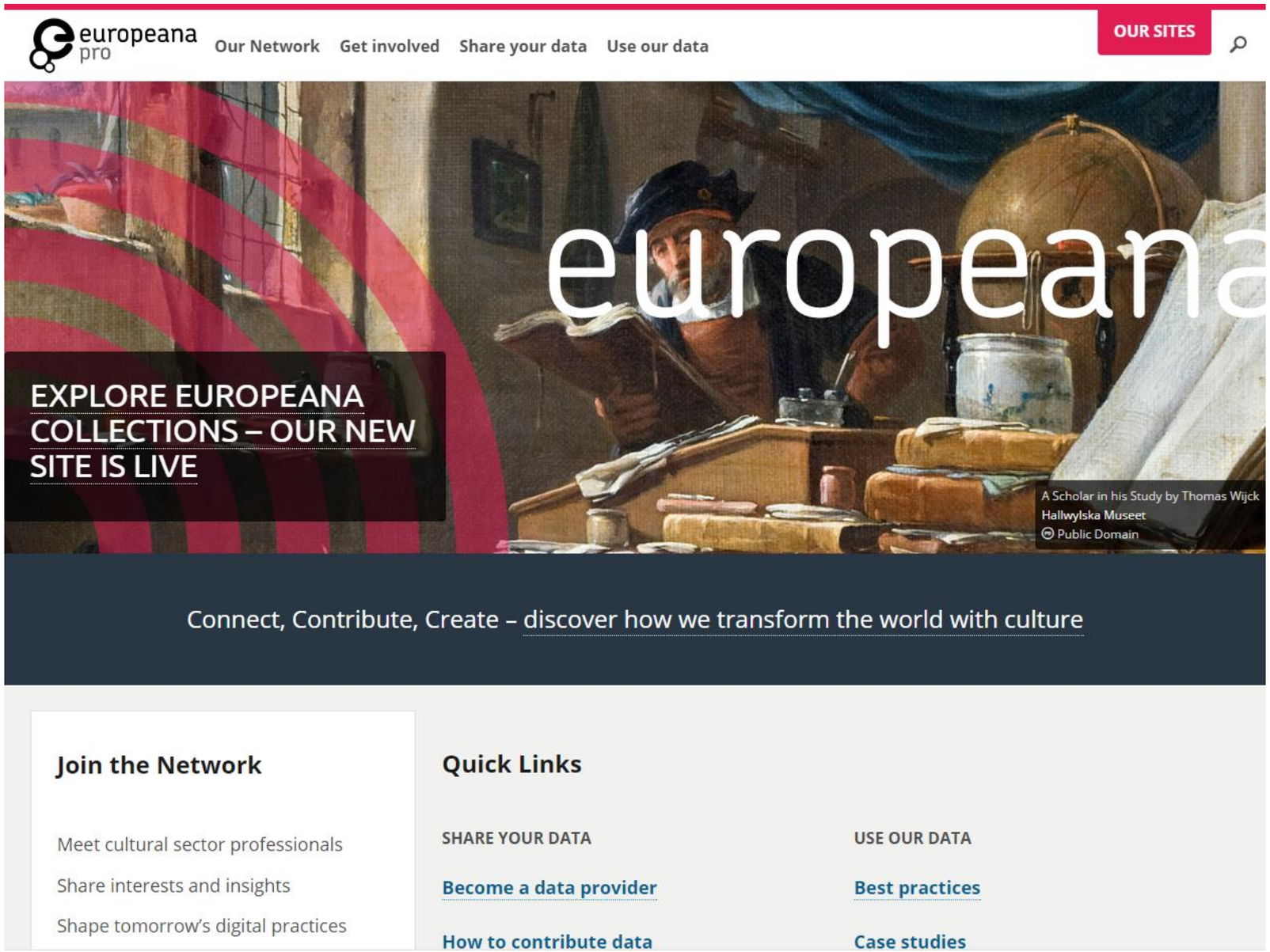

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