



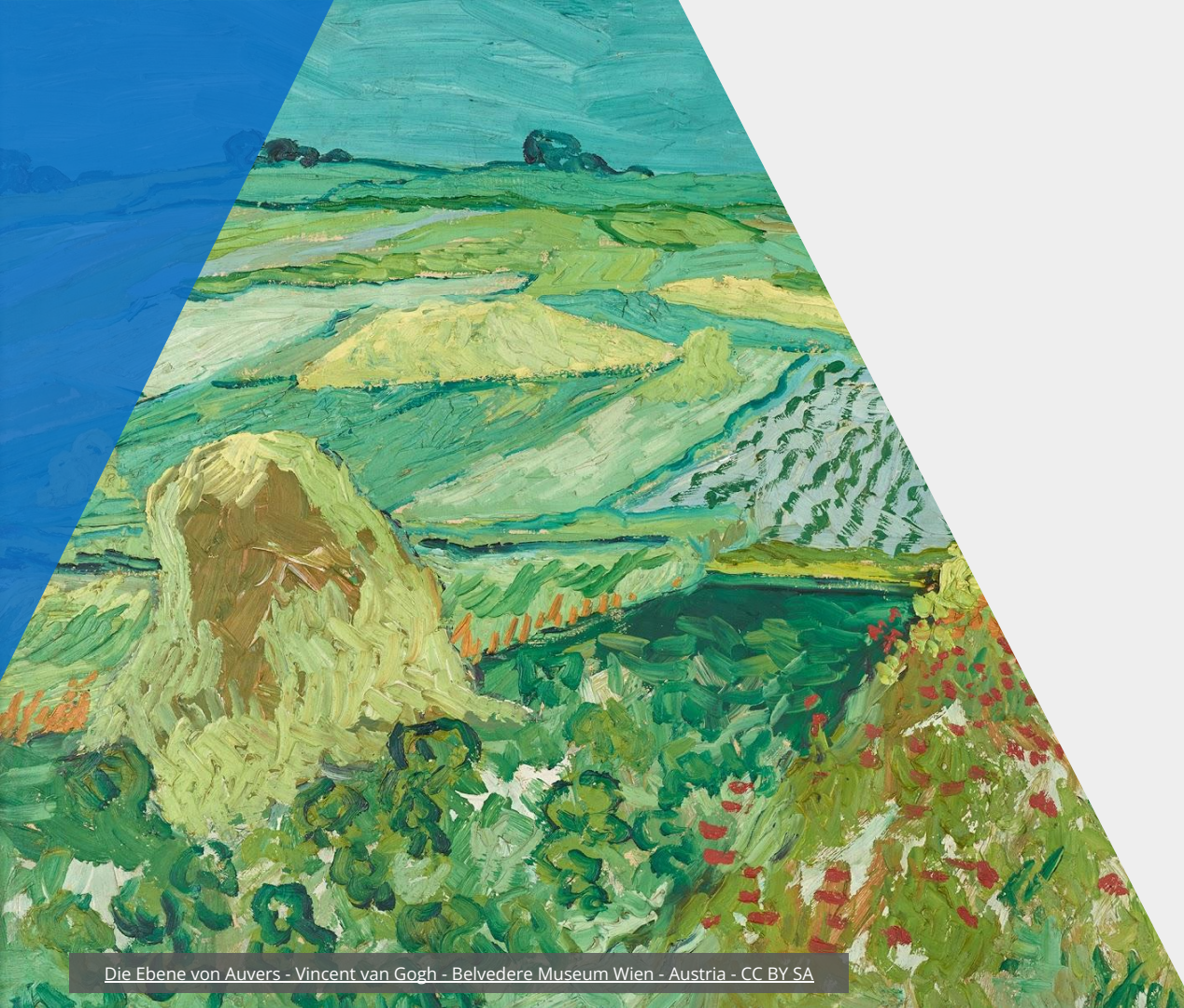
# An aggregation workflow based on linked data for the common European data space for cultural heritage

**Nuno Freire, Hugo Manguinhas, Jochen Vermeulen,  
Antoine Isaac**  
Europeana Foundation

**Bob Coret, Enno Meijers**  
Digital Heritage Network

**Dimitra Atsidis**  
Netherlands Institute for Sound & Vision



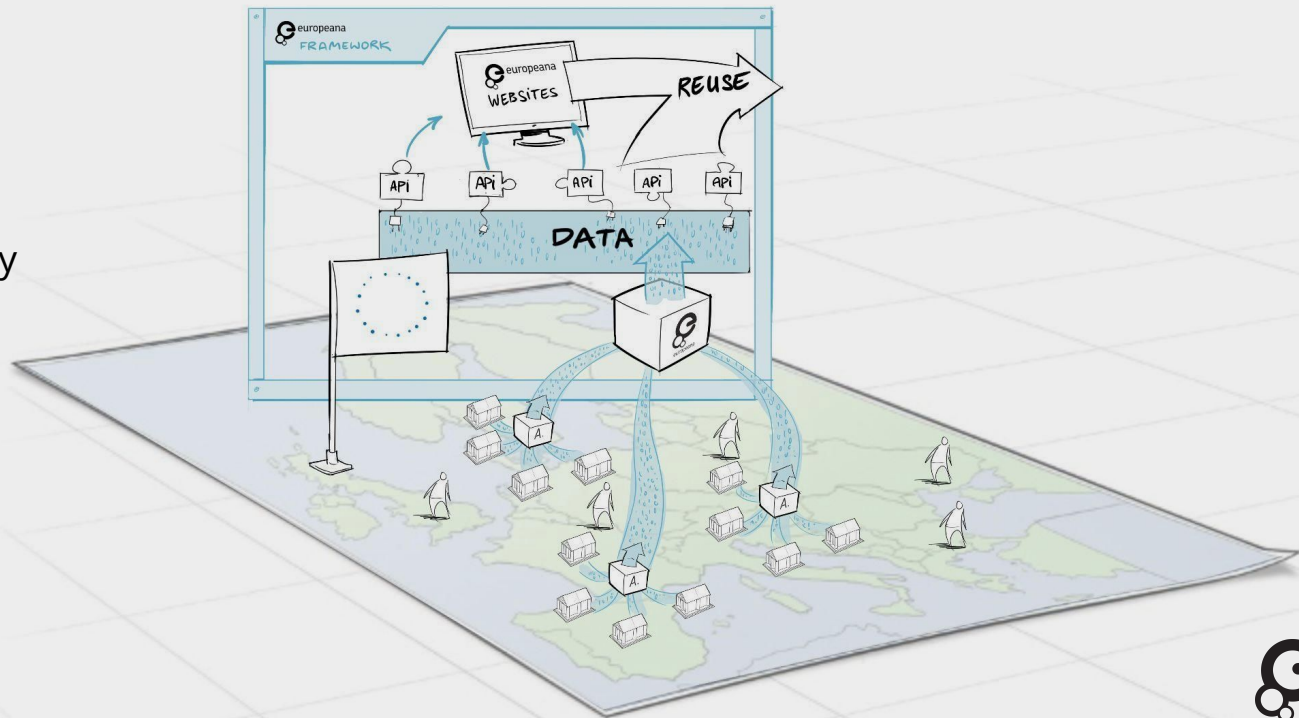


# Introduction

Die Ebene von Auvers - Vincent van Gogh - Belvedere Museum Wien - Austria - CC BY SA

# Europeana's present metadata aggregation flow

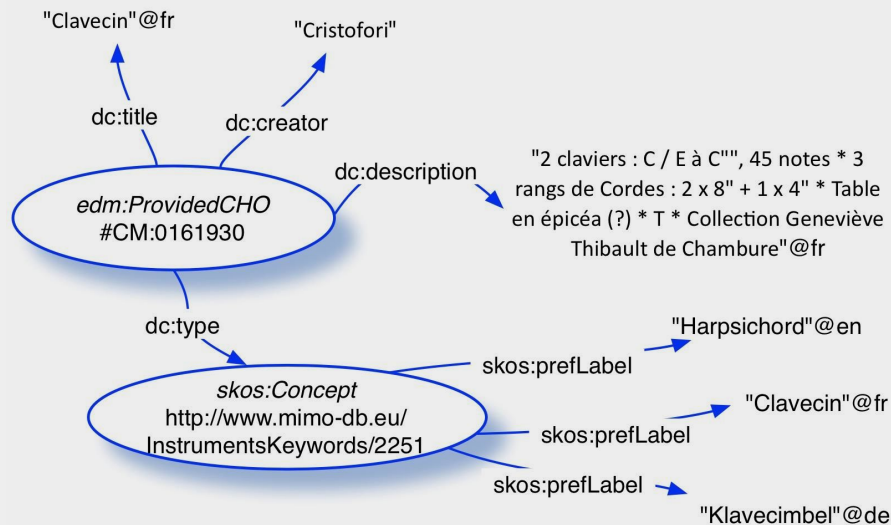
A centralized repository of metadata harvested using the OAI-PMH protocol



# The Europeana Data Model (EDM)



[Clavecin](#), Bartolomeo Cristofori  
Cite de la Musique,  
MIMO - Musical Instruments Museums Online | CC BY-NC-SA



<http://pro.europeana.eu/edm-documentation>

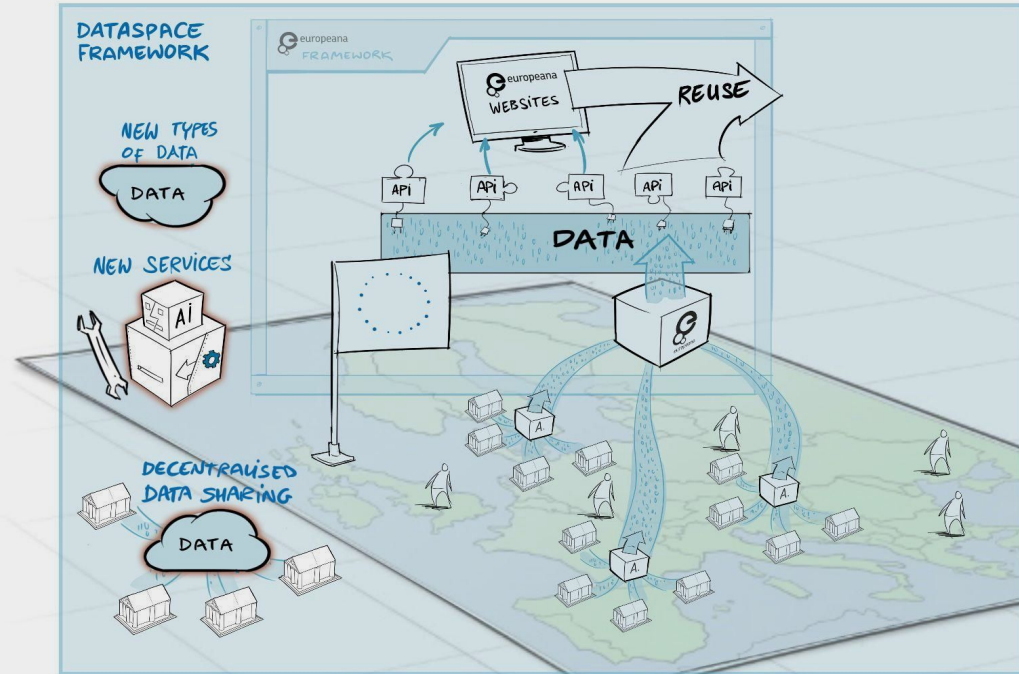
# Becoming a data space

## COMMON EUROPEAN DATA SPACE FOR CULTURAL HERITAGE

Changing how we respond to the needs of data providers and data recipients

Diversifying data sharing pipelines to address:

- the varied needs of CH Institutions
- the diversification of data products



# Innovate the aggregation model and technology

Cf work of the Europeana Aggregators' Forum's task force on Decentralised Aggregation:

- Extension and refinement of aggregation use cases
  - *E.g. As an aggregator, I want to always provide access to the latest version of the data available at the source*
- Collect examples and develop scenarios for new types of data
- Develop solutions
  - Using IIIF and Linked Data

# Short introduction to NDE

*The Dutch Digital Heritage Network (NDE) aims at increasing the social value of the cultural heritage information maintained by libraries, archives, museums and other cultural institutions.*

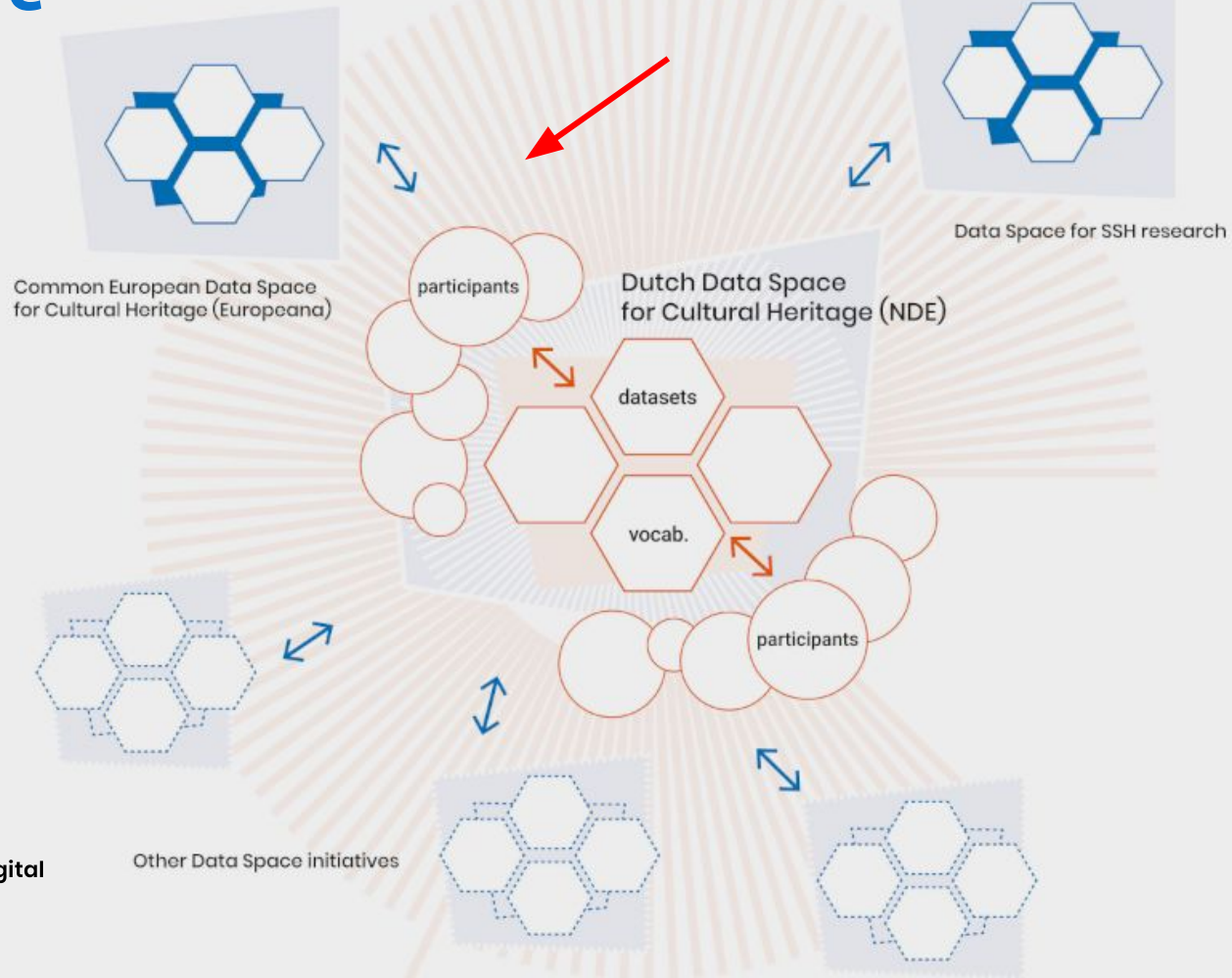
*The National Digital Heritage Strategy starts from the end user perspective and encourages institutions to provide digital heritage information that is more visible, usable and sustainable.*

*Linked Data is regarded as one of the enabling technologies.*

*28-11-2024: launch of the 3rd version of the National Strategy*



# “Big picture”





# Interoperability and standards

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    - 2.2.1 Serving data
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## Requirements for Collection Management Systems

Living Standard, 7 October 2024

### This version:

<https://netwerk-digitaal-erfgoed.github.io/requirements-collection-management-systems/>


### Issue Tracking:

[GitHub](#)

### Editors:

[Gertjan Filarski \(Netwerk Digitaal Erfgoed\)](#)

[Enno Meijers \(Netwerk Digitaal Erfgoed\)](#)

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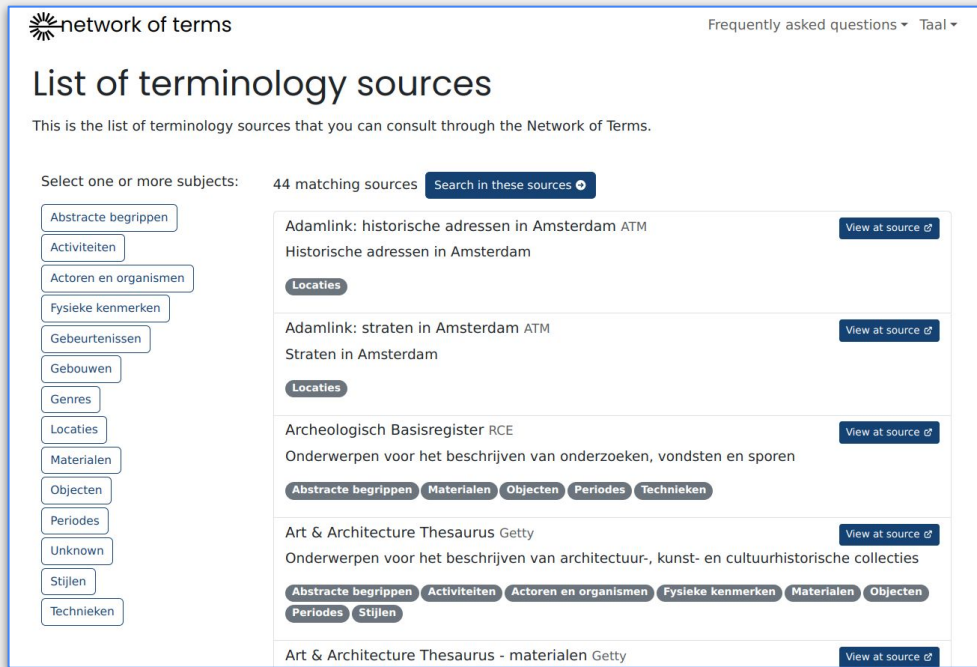
## Abstract

This document describes requirements for collection management systems. By following these requirements, software developers can make their systems NDE-compatible.

## 1. Introduction

This document helps vendors of collection management systems to make their systems NDE compliant and ready for use in the Dutch heritage sector. Vendors only offering linked data publication services must meet the requirements for publishing Linked Open Data (see [§ 2.2 Publication of Linked Open Data](#)) and registration with the NDE Dataset Register (see [§ 2.4 Registration with the NDE Dataset Register](#)). In this case the other requirements must be fulfilled by the system providing the information to the publication service.

# National Infrastructure



The screenshot shows the 'network of terms' website interface. At the top left is the logo and name 'network of terms'. At the top right are links for 'Frequently asked questions' and 'Taal'. The main heading is 'List of terminology sources', followed by the text 'This is the list of terminology sources that you can consult through the Network of Terms.' Below this, there is a section 'Select one or more subjects:' with a list of 14 subject categories: Abstracte begrippen, Activiteiten, Actoren en organismen, Fysieke kenmerken, Gebeurtenissen, Gebouwen, Genres, Locaties, Materialen, Objecten, Periodes, Stijlen, and Technieken. To the right of this list, it says '44 matching sources' and 'Search in these sources'. The main content area displays four search results, each with a title, a description, and a 'View at source' button. The first result is 'Adamlink: historische adressen in Amsterdam ATM' with the description 'Historische adressen in Amsterdam' and a 'Locaties' tag. The second is 'Adamlink: straten in Amsterdam ATM' with the description 'Straten in Amsterdam' and a 'Locaties' tag. The third is 'Archeologisch Basisregister RCE' with the description 'Onderwerpen voor het beschrijven van onderzoeken, vondsten en sporen' and tags for 'Abstracte begrippen', 'Materialen', 'Objecten', 'Periodes', and 'Technieken'. The fourth is 'Art & Architecture Thesaurus Getty' with the description 'Onderwerpen voor het beschrijven van architectuur-, kunst- en cultuurhistorische collecties' and tags for 'Abstracte begrippen', 'Activiteiten', 'Actoren en organismen', 'Fysieke kenmerken', 'Materialen', 'Objecten', 'Periodes', and 'Stijlen'. A fifth result is partially visible at the bottom: 'Art & Architecture Thesaurus - materialen Getty'.

<https://termennetwerk.netwerkdigitaalergoed.nl/>

# National Infrastructure

network of terms

Frequently asked questions ▾ Taal ▾

## List of terminology sources

This is the list of terminology sources that you can

Select one or more subjects: 44 matching sources

- Abstracte begrippen
- Activiteiten
- Actoren en organismen
- Fysieke kenmerken
- Gebeurtenissen
- Gebouwen
- Genres
- Locaties
- Materialen
- Objecten
- Periodes
- Unknown
- Stijlen
- Technieken

Adamlink: historische  
Historische adre  
**Locaties**

Adamlink: straat  
Straten in Amst  
**Locaties**

Archeologisch  
Onderwerpen v  
**Abstracte begrip**

Art & Architect  
Onderwerpen v  
**Abstracte begrip**  
**Periodes** **Stijle**

Art & Architect

datasetregister

Create Validate Submit Search FAQ NL • EN

## Dataset Register

For all heritage datasets!

The dataset register provides insight into the availability of datasets in the heritage field and thus encourages the use of these datasets.

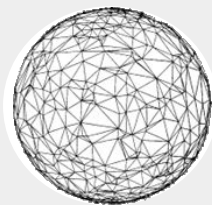
For heritage institutions with datasets: →  
add a dataset description

For users of heritage data: →  
search **9870** dataset descriptions

# Linked Data metadata aggregation



# Aggregation process



Dataset Register (NDE)

## Machine-actionable dataset metadata in DCAT-AP:

- Metadata about the dataset distributions include necessary technical details for automatic processing
- States the compliance with EDM



Europeana

1  
Here's the link to our collection  
(in RDF/EDM!)



National Archives



Photocollection dataset description



Photocollection metadata as RDF



Photographs via 



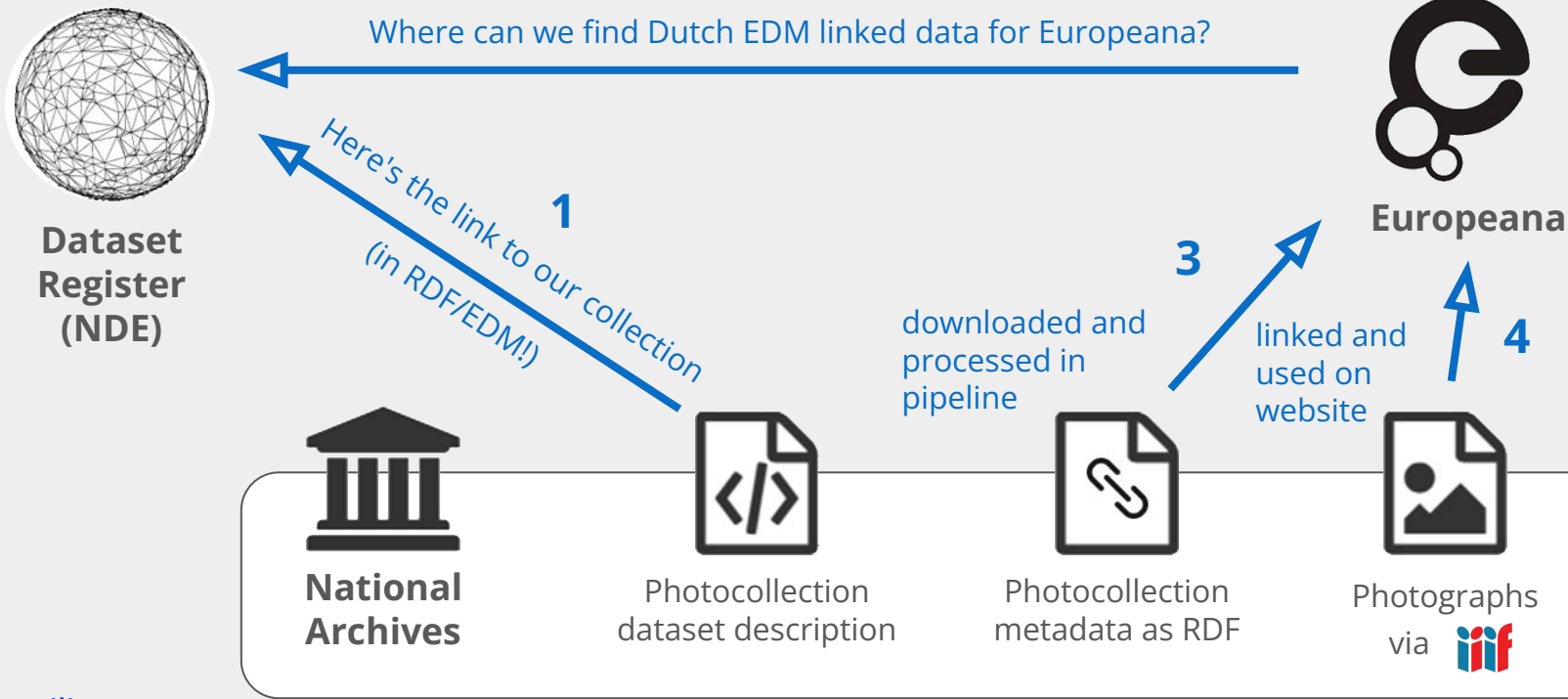
dutch digital heritage network



Europeana

# Aggregation process

2



# Publishing EDM distributions

## Dataset description

<https://archieff.nl/id/dataset/foto/2-10-62ntfoto>

URI	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto">https://archieff.nl/id/dataset/foto/2-10-62ntfoto</a>
Identifier	2-10-62ntfoto
Title	Foto's NEFIS en CMI
License	<a href="http://creativecommons.org/publicdomain/zero/1.0/">http://creativecommons.org/publicdomain/zero/1.0/</a>
Creator	<a href="https://www.nationaalarchieff.nl">https://www.nationaalarchieff.nl</a>
	<b>Name</b> Nationaal Archief
Distribution	genid-012be778301547048ed16dd0d47b1398208171-bc_0_df_101193835_2
	<b>AccessURL</b> <a href="https://service.archieff.nl/gaf/oai/lopen_oai.OAIHandler?verb=ListRecords&amp;set=2-10-62ntfoto&amp;metadataPrefix=oai_dc">https://service.archieff.nl/gaf/oai/lopen_oai.OAIHandler?verb=ListRecords&amp;set=2-10-62ntfoto&amp;metadataPrefix=oai_dc</a>
	<b>Format</b> application/xml
Distribution	genid-012be778301547048ed16dd0d47b1398208171-bc_0_df_101193835_3
	<b>AccessURL</b> <a href="https://service.archieff.nl/sparql">https://service.archieff.nl/sparql</a>
	<b>Format</b> application/sparql-query
Created	2022-01-31
Modified	2024-11-04
Language	nl
Issued	2024-11-04
Publisher	<a href="https://www.nationaalarchieff.nl">https://www.nationaalarchieff.nl</a>
	<b>Name</b> Nationaal Archief
IsPartOf	<a href="https://archieff.nl/id/datacatalog/foto">https://archieff.nl/id/datacatalog/foto</a>

[View the datasets of this datacatalog](#)



dutch digital  
heritage  
network

<https://datasetregister.netwerkdigitaalerfgoed.nl/show.php?lang=nl&uri=https://archieff.nl/id/dataset/foto/2-10-62ntfoto>



# Publishing EDM distributions

	subject	predicate	object
1	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto">https://archieff.nl/id/dataset/foto/2-10-62ntfoto</a>	dcat:distribution	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>
2	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	rdf:type	dcat:Distribution
3	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:description	"File 2-10-62ntfoto.ntriples converted via LODA-pipeline based on <a href="https://github.com/netwerk-digitaal-erfgoed/lod-aggregator/blob/master/queries/nafotos2edm.rq">https://github.com/netwerk-digitaal-erfgoed/lod-aggregator/blob/master/queries/nafotos2edm.rq</a> mapping"
4	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:license	<a href="http://creativecommons.org/publicdomain/zero/1.0/">http://creativecommons.org/publicdomain/zero/1.0/</a>
5	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:accessURL	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf</a>
6	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:format	"application/rdf+xml"
7	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:created	"2023-11-22T14:58:00Z" <sup>^^xsd:dateTime</sup>
8	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:byteSize	"83620" <sup>^^xsd:nonNegativeInteger</sup>
9	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:mediaType	iana:assignments/media-types/application/rdf+xml
10	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:conformsTo	<a href="http://www.europeana.eu/schemas/edm/">http://www.europeana.eu/schemas/edm/</a>
11	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:downloadURL	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf</a>



# Publishing EDM distributions

	subject	predicate	object
1	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto">https://archieff.nl/id/dataset/foto/2-10-62ntfoto</a>	dcat:distribution	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>
2	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	rdf:type	dcat:Distribution
3	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:description	"File 2-10-62ntfoto. ntriples converted via LODA-pipeline based on mapping"
4	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:mediaType	<a href="http://www.iana.org/assignments/media-types/application/rdf+xml">iana:assignments/media-types/application/rdf+xml</a>
5	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:conformsTo	<a href="http://www.europeana.eu/schemas/edm/">http://www.europeana.eu/schemas/edm/</a>
6	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:downloadURL	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf</a>
7	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:mediaType	<a href="http://www.iana.org/assignments/media-types/application/rdf+xml">iana:assignments/media-types/application/rdf+xml</a>
8	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:conformsTo	<a href="http://www.europeana.eu/schemas/edm/">http://www.europeana.eu/schemas/edm/</a>
9	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:downloadURL	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf</a>
10	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:mediaType	<a href="http://www.iana.org/assignments/media-types/application/rdf+xml">iana:assignments/media-types/application/rdf+xml</a>
11	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dct:conformsTo	<a href="http://www.europeana.eu/schemas/edm/">http://www.europeana.eu/schemas/edm/</a>
12	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	dcat:downloadURL	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf</a>

# SPARQL construct for RDF conversion

```
PREFIX dc: <http://purl.org/dc/elements/1.1/>
PREFIX dcterms: <http://purl.org/dc/terms/>
PREFIX edm: <http://www.europeana.eu/schemas/edm/>
PREFIX ore: <http://www.openarchives.org/ore/terms/>
PREFIX nao: <https://archieef.nl/def/ontologie/>
PREFIX doap: <http://usefulinc.com/ns/doap#>
PREFIX svcs: <http://rdfs.org/sioc/services#>

CONSTRUCT {
  ?uri_cho a edm:ProvidedCHO ;
    edm:type ?edm_type ; dc:creator ?creator ; dc:description ?description; dc:type ?genre ; dc:subject ?subject ; dcterms:spatial
    dcterms:temporal ?temporal ; dcterms:medium ?material ; dc:rights ?license ; dc:identifier ?identifier ; dc:date ?date ;
    dcterms:isPartOf ?is_part_of ; dc:publisher ?publisher .

  ?uri_ore a ore:Aggregation ;
    edm:aggregatedCHO ?uri_cho ; edm:provider ?provider ; edm:dataProvider ?dataProvider ; edm:rights ?rights ; edm:isShownBy
    edm:isShownAt ?isShownAt .

  ?isShownBy a edm:WebResource ;
    svcs:has_service ?uri_iiif .

  ?uri_iiif a svcs:Service ;
    dcterms:conformsTo <http://iiif.io/api/image> ;
    doap:implements <http://iiif.io/api/image/2/level1.json> .
} WHERE {
  ?uri_cho a nao:Archiefeenheid .
  ?uri_cho nao:isArchiefeenheidtype <https://archieef.nl/def/Foto>

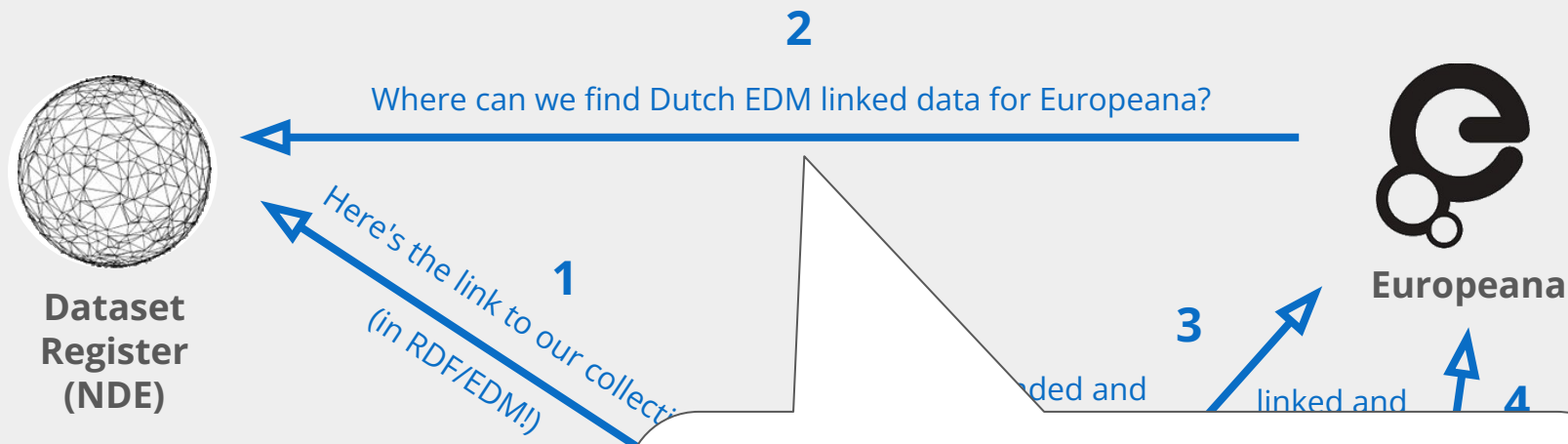
  OPTIONAL { ?uri_cho nao:isMateriaaltype ?material . BIND(STRLANG(?material, "nl") AS ?material) }
  OPTIONAL { ?uri_cho dc:identifier ?identifier }

  ?uri_ore foaf:primaryTopic ?uri_cho .

  OPTIONAL { ?uri_ore dc:description ?description . BIND(STRLANG(?description, "nl") AS ?description) }
  OPTIONAL { ?uri_ore nao:toelichting ?description . BIND(STRLANG(?description, "nl") AS ?description) }
```



# Aggregation process



## Datasets for aggregation are retrieved via SPARQL:

- Europeana queries for datasets compliant with EDM
- DCAT metadata is obtained from the SPARQL endpoint

(use of SPARQL is not mandatory when dataset have resolvable URIs that point to DCAT metadata)

# Find EDM distributions in triplestore.netwerkdigitaalergoed.nl

PREFIX **dcat**: <http://www.w3.org/ns/dcat#>

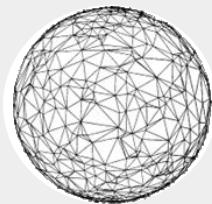
PREFIX **dct**: <http://purl.org/dc/terms/>

```
SELECT * WHERE {  
  ?distribution dct:conformsTo <http://www.europeana.eu/schemas/edm/> ;  
  dct:license <http://creativecommons.org/publicdomain/zero/1.0/> ;  
  dcat:accessURL ?url  
}
```

	distribution	url
1	<a href="https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-10-62ntfoto-loda-edm-distributie</a>	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-10-62ntfoto.rdf</a>
2	<a href="https://archieff.nl/id/dataset/foto/2-20-46ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-20-46ntfoto-loda-edm-distributie</a>	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-20-46ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-20-46ntfoto.rdf</a>
3	<a href="https://archieff.nl/id/dataset/foto/2-21-008-01ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-21-008-01ntfoto-loda-edm-distributie</a>	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-21-008-01ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-21-008-01ntfoto.rdf</a>
4	<a href="https://archieff.nl/id/dataset/foto/2-21-284ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-21-284ntfoto-loda-edm-distributie</a>	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-21-284ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-21-284ntfoto.rdf</a>
5	<a href="https://archieff.nl/id/dataset/foto/2-24-01-01ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-24-01-01ntfoto-loda-edm-distributie</a>	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-24-01-01ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-24-01-01ntfoto.rdf</a>
6	<a href="https://archieff.nl/id/dataset/foto/2-24-01-02ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-24-01-02ntfoto-loda-edm-distributie</a>	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-24-01-02ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-24-01-02ntfoto.rdf</a>
7	<a href="https://archieff.nl/id/dataset/foto/2-24-01-03ntfoto-loda-edm-distributie">https://archieff.nl/id/dataset/foto/2-24-01-03ntfoto-loda-edm-distributie</a>	<a href="https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-24-01-03ntfoto.rdf">https://nde-europeana.ams3.cdn.digitaloceanspaces.com/2-24-01-03ntfoto.rdf</a>

# Aggregation process

2



Where can we find Dutch EDM linked data for Europeana?



Here's the link

1

## The DCAT metadata is processed by Europeana:

- Dataset distributions (data dumps) are downloaded
- The RDF graph of the dataset is segmented into individual records in EDM RDF/XML (Europeana is based on records)
- After this point, the regular dataset ingestion process and tools of Europeana are applied



Europeana

3


loaded and processed in pipeline



Photocollection metadata as RDF

linked and used on website



Photographs via 

4



7.067 RESULTATEN VOOR edm\_datasetName:1189\_\* X



**Oranjezaal. Schildering**  
Hofmeester, Bart / RVD  
National Archives of the Netherlands



**Exterieur**  
Hofmeester, Bart / RVD  
National Archives of the Netherlands



**Plafond Witte Eetzaal**  
Hofmeester, Bart / RVD  
National Archives of the Netherlands



**Japane kast**  
Hofmeester, Bart / RVD  
National Archives of the Netherlands



**De Japane zaal, detail wandbekleding**  
Hofmeester, Bart / RVD  
National Archives of the Netherlands



**De Japane zaal**  
Hofmeester, Bart / RVD



**De Chinese zaal**  
Hofmeester, Bart / RVD



**Interieur**  
Hofmeester, Bart / RVD



**Vestibule met deuren van de Oranjezaal. Aan weerszijde**

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# Thank you!

## Questions? Don't hesitate to mail us

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dutch digital  
heritage  
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