

The CARARE project: modeling for Linked Open Data

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Fagdag om modellering,
7 March 2014

CARARE: Bringing content for archaeology and historic buildings to Europeana users



→ When: 3 year project (2010-2013)

→ Who: heritage organisations, archaeological museums, research institutions and specialist archives

29 partners in 21 countries

→ What: delivering content to Europeana

→ What: aggregation services and good practices for content relating to archaeological monuments and historic sites

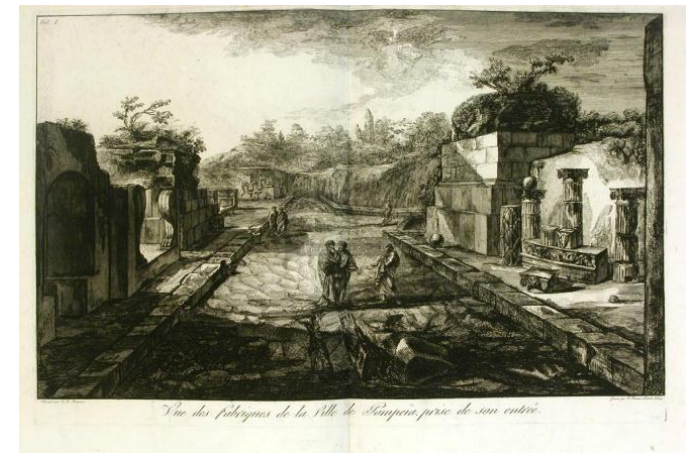
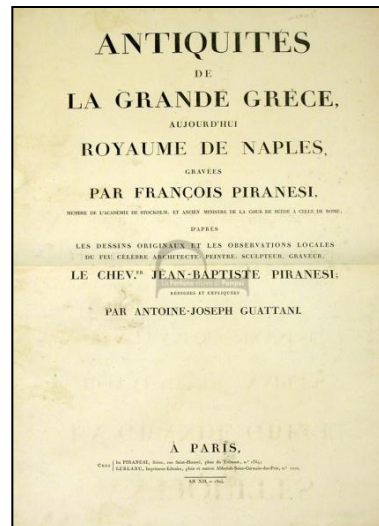
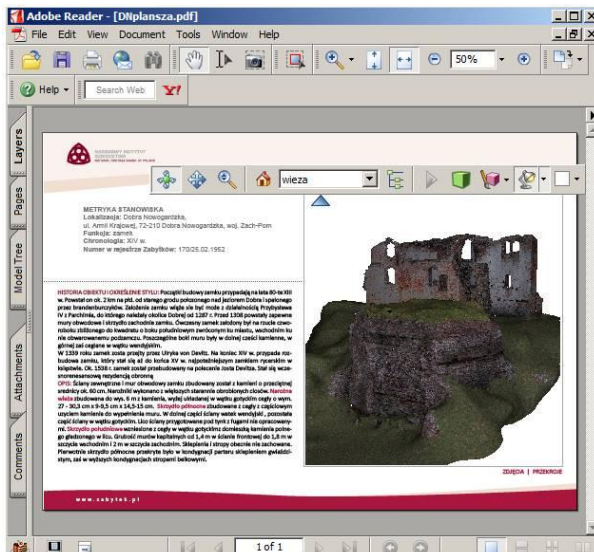
- Metadata repository (MORE)
- Metadata schema

<http://www.carare.eu>



CARARE Content

→ Images, text, videos, 3D models...



CARARE Metadata Schema

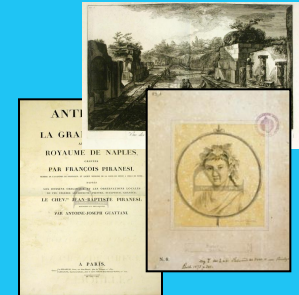
Based on existing standards from CIDOC, the Council of Europe, English Heritage, LIDO and also Europeana



Heritage asset



Activities



Digital resources



Collection

Heritage Assets

Conceptually a CARARE record focuses on a heritage asset and its relations to digital resources, activities and to collection information

Monuments, landscape areas, artefacts...

→ Rich characteristics

- Type, Materials, Dimensions, Inscriptions
- Spatial (place, address, map coordinates)
- Temporal (date, time span, period)

→ Relations

- Allows for complexity of built heritage
- To contextual resources etc

→ Familiar concepts

- Designed as an intermediary between native metadata of content providers and Europeana's EDM schema



MINT:

metadata mapping and ingestion





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CARARE Ingestion Server

You are currently logged in as user **Kfermie** (role: **superuser**)

READ Latest

Server statistics

102 registered users / 62 organizations from 20 countries.

3393040 imported items

2264744 transformed items

ver. 2co90

Content providers can ingest XML metadata records to MINT using OAI-PMH, FTP or in zip files



Mappings: MINJAR4 (CARARE-1.0.6.2)

Define your mappings and when you are done click the 'Finished' button below to make them available to the rest of the users in your organization.

**Mapping relations are automatically saved every time you edit, delete or create a new one.*

Finished Preview Summary

Source Schema

- minjar
 - undirritad_dags
 - y_hnit
 - fridlyst_sem
 - skra_lysing
 - fullur_frtexti
 - lysing
 - sysla
 - gagn
 - minjar_jord
 - minjar_fullur_frtexti
 - minjar_undirritad_...
 - minjar_link
 - minjar_x_hnit
 - minjar_skra_lysing
 - minjar_thinglyst
 - minjar_uppruni_st
 - buid_til
 - gognID
 - lysing
 - gerandi
 - minjar_athugasem...
 - minjar_stada
 - retthafi
 - teaund

Mappings Toggle namespaces

car:digitalResource:	structural	+	?
+ car:recordInformation:			?
+ car:appellation:	structural	+	?
+ car:actors:	structural	+	?
car:format:	☆ ✖ / + openarchives:mime	+	@ ?
car:formatDetails:	unmapped	+	@ ?
car:medium:	unmapped	+	@ ?
car:extent:	unmapped	+	@ ?
+ car:spatial:	structural	+	?
car:subject:	☆ ✖ + archaeologic...	✖ +	?
car:subject:	☆ ✖ / + openarchives:minjar_fridlyst_sem	+	?
+ car:temporal:	structural	+	?
+ car:publicationStatement:	structural	+	?
car:type:	☆ ✖ + Image	@	?
car:description:	☆ ✖ / + openarchives:lysing	@	?
car:note:	☆ ✖ / + openarchives:minjar_skra_lysing	+	@ ?

Target Schema

- Collection Information
- Heritage Assets
- Digital Resources**
- Activities

Mapping native schema to the target schema (CARARE in this example)

Mappings: MINJAR4 (CARARE-1.0.6.2)

Define your mappings and when you

*Mapping relations are automatically

Finished Preview

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 - buid_til
 - gognID
 - lysing
 - gerandi
 - minjar_athugasemdir
 - minjar_stada
 - retthafi
 - teaund

```
XML Preview
Input XSL Output Validation EDM ESE Europeana
view plain print ?
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02. <openarchives:minjar xmlns:openarchives="http://www.openarchives.org/OAI/2.0/">
03.   <openarchives:undirritad_dags>1965-07-17</openarchives:undirritad_dags>
04.   <openarchives:y_hnit>438590</openarchives:y_hnit>
05.   <openarchives:fridlyst_sem>dysjar</openarchives:fridlyst_sem>
06.   <openarchives:skra_lysing>Dys á Ferstikluhálsi, rétt við Þjóðveginn.</openarchives:skra_lysing>
07.   <openarchives:fullur_frtexti>Dys á Ferstikluhálsi, rétt við Þjóðveginn. Skjal undirritað af KE 17.07.196
   </openarchives:fullur_frtexti>
08.   <openarchives:lysing/>
09.   <openarchives:sysla>Borgarfjarðarsýsla</openarchives:sysla>
10.   <openarchives:gagn>
11.     <openarchives:minjar_jord>Ferstikla</openarchives:minjar_jord>
12.     <openarchives:minjar_fullur_frtexti>Dys á Ferstikluhálsi, rétt við Þjóðveginn. Skjal undirritað af KE
   </openarchives:minjar_fullur_frtexti>
13.     <openarchives:minjar_undirritad_dags>1965-07-17</openarchives:minjar_undirritad_dags>
14.     <openarchives:minjar_link>http://minjar.fornleifavernd.is/minjar
   /35000101</openarchives:minjar_link>
15.     <openarchives:minjar_x_hnit>376011</openarchives:minjar_x_hnit>
16.     <openarchives:minjar_skra_lysing>Dys á Ferstikluhálsi, rétt við Þjóðveginn.
   </openarchives:minjar_skra_lysing>
17.     <openarchives:minjar_thinglyst>True</openarchives:minjar_thinglyst>
18.     <openarchives:minjar_uppruni_st/>
19.     <openarchives:buid_til>2009-05-05</openarchives:buid_til>
20.     <openarchives:gognID>52</openarchives:gognID>
21.     <openarchives:lysing>Ljósmynd af friðlýstum minjum, dys, á jörðinni Ferstiklu. Horft í NV.</openarchiv
22.     <openarchives:gerandi>Magnús A. Sigurðsson</openarchives:gerandi>
23.     <openarchives:minjar_athugasemdir/>
24.     <openarchives:minjar_stada>uppmælt</openarchives:minjar_stada>
25.     <openarchives:retthafi>FVR</openarchives:retthafi>
26.     <openarchives:tegund>mynd</openarchives:tegund>
27.     <openarchives:minjar_vefsja/>
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29.     <openarchives:minjar_fridlyst_sem>dysjar</openarchives:minjar_fridlyst_sem>
30.     <openarchives:minjar_astand/>
31.     <openarchives:minjar_y_hnit>438590</openarchives:minjar_y_hnit>
32.     <openarchives:minjar_lysing/>
33.     <openarchives:mime>image/jpeg</openarchives:mime>
```

Target Schema

- Collection Information
- Heritage Assets
- Digital Resources
- Activities

Previewing the input data



Mappings: MINJAR4 (CARARE-1.0.6.2)

Define your mappings and when you are ready click on the Preview button. *Mapping relations are automatically generated.

Finished Preview

XML Preview

view plain print ?

```
01. <?xml version="1.0" encoding="UTF-8"?>
02. <car:carareWrap xmlns:car="http://www.carare.eu/carareSchema" xmlns:xalan="http://xml.apache.org/xalan">
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07.       <car:contacts>
08.         <car:name lang="is">Sólborg Una Pálsdóttir</car:name>
09.         <car:role lang="en">Head of registration</car:role>
10.         <car:organization lang="en">The Cultural Heritage Agency of Iceland</car:organization>
11.         <car:address>Suðungata 39, 101 Reykjavík, Ísland</car:address>
12.         <car:phone>003545701300</car:phone>
13.         <car:email>solborg@minjastofnun.is</car:email>
14.       </car:contacts>
15.       <car:source lang="en">The Archaeological Heritage Agency of Iceland</car:source>
16.       <car:language lang="is">is</car:language>
17.       <car:coverage>
18.         <car:temporal>
19.           <car:timeSpan>
20.             <car:startDate>1200-01-01</car:startDate>
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22.           </car:timeSpan>
23.           <car:displayDate lang="is">1200-1950</car:displayDate>
24.         </car:temporal>
25.         <car:spatial>
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28.             <car:address>
29.               <car:country lang="en">Iceland</car:country>
30.             </car:address>
31.           </car:locationSet>
32.           <car:spatialReferenceSystem>EPSG:3057</car:spatialReferenceSystem>
33.           <car:cartographicReference>
34.             <car:spatialFeatureType>point</car:spatialFeatureType>
35.           </car:cartographicReference>
```

Source Schema

- minjar
 - undirritad_dags
 - y_hnit
 - fridlyst_sem
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 - lysing
 - sysla
 - gagn
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 - minjar_fullur_frtexti
 - minjar_undirritad_c
 - minjar_link
 - minjar_x_hnit
 - minjar_skra_lysing
 - minjar_thinglyst
 - minjar_uppruni_st
 - buid_til
 - gognID
 - lysing
 - gerandi
 - minjar_athugasem
 - minjar_stada
 - retthafi
 - teaund

Target Schema

- Collection Information
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- Digital Resources**
- Activities

Previewing the transformation to CARARE



Mappings: MINJAR4 (CARARE-1.0.6.2)

Define your mappings and when you are ready click on the Preview button. *Mapping relations are automatically generated.

Finished Preview

Source Schema

- minjar
 - undirritad_dags
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 - buid_til
 - gognID
 - lysing
 - gerandi
 - minjar_athugasemur
 - minjar_stada
 - retthafi
 - teaund

XML Preview

Input XSL Output Validation EDM ESE Europeana

```
01. <?xml version="1.0" encoding="utf-8"?><rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:carare="http://www.carare.eu/carareSchema" xmlns:edm="http://www.europeana.eu/schemas/edm/" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:ore="http://www.openarchives.org/ore/terms/"><edm:WebResource rdf:about="http://minjar.fornleifavernd.is/gogn/XS3LojoB-Ferstikla_1.JPG"><dc:rights>http://creativecommons.org/licenses/by/3.0/</dc:rights></edm:WebResource><edm:ProvidedCHO rdf:about="DR:52"><dc:creator xml:lang="Magnús A. Sigurðsson">Magnús A. Sigurðsson</dc:creator><dc:creator xml:lang="Magnús A. Sigurðsson">Magnús A. Sigurðsson</dc:creator><dc:date>0870-01-01</dc:date><dc:date>1900-01-01</dc:date><dc:description xml:lang="is">Ljósmynd af friðlýstum minjum, dys, á jörðunni Ferstiklu. Horft í NV.</dc:description><dc:description lang="is">Dys á Ferstikluhálsi, rétt við Þjóðveginn.</dc:description><dc:description lang="is">Dys á Ferstikluhálsi, rétt við Þjóðveginn.</dc:description><dc:format>image/jpeg</dc:format><dc:format>image/jpeg</dc:format><dc:identifier>52</dc:identifier><dc:language xml:lang="is">is</dc:language><dc:rights>http://creativecommons.org/licenses/by/3.0/</dc:rights><dc:source xml:lang="en">The Archaeological Heritage Agency of Iceland</dc:source><dc:subject>archaeological site</dc:subject><dc:subject>dysjar</dc:subject><dc:subject>dysjar</dc:subject><dc:title xml:lang="is">35000101. Dys á Ferstikluhálsi 2.</dc:title><dc:dcterms:alternative xml:lang="is">35000101. Dys á Ferstikluhálsi 1.</dc:dcterms:alternative><dc:type xml:lang="en" rdf:resource="Image"/><dc:dcterms:created>2009-05-05</dc:dcterms:created><dc:dcterms:provenance xml:lang="en">The dataset is now owned by the Cultural Heritage Agency of Iceland.</dc:dcterms:provenance><dc:dcterms:spatial xml:lang="is">Ferstikluháls</dc:dcterms:spatial><dc:dcterms:spatial xml:lang="is">Ferstikluháls</dc:dcterms:spatial><dc:dcterms:spatial>Ferstikla</dc:dcterms:spatial><dc:dcterms:spatial xml:lang="is">Hvalfjarðarsveit</dc:dcterms:spatial><dc:dcterms:spatial xml:lang="is">Borgarfjarðarsýsla</dc:dcterms:spatial><dc:dcterms:spatial xml:lang="en">Iceland</dc:dcterms:spatial><dc:dcterms:spatial>376011</dc:dcterms:spatial><dc:dcterms:spatial>438590</dc:dcterms:spatial><edm:type>IMAGE</edm:type><edm:type>IMAGE</edm:type></edm:ProvidedCHO><ore:Aggregation rdf:about="http://store.carare.eu/uid//DR:52.1"><edm:aggregatedCHO rdf:resource="DR:52"></edm:aggregatedCHO></ore:Aggregation></edm:dataProvider>The Archaeological Heritage Agency of Iceland</edm:dataProvider><edm:provider>CARARE</edm:provider><edm:isShownBy rdf:resource="http://minjar.fornleifavernd.is/gogn/XS3LojoB-Ferstikla_1.JPG"/><edm:isShownAt rdf:resource="http://minjar.fornleifavernd.is/minjar/35000101"/><dc:rights>http://creativecommons.org/licenses/by/3.0/</dc:rights></ore:Aggregation></rdf:RDF>
```

Target Schema

- Collection Information
- Heritage Assets
- Digital Resources
- Activities

Previewing the transformation to EDM



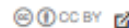
Search ▾ Iceland

Search

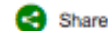
Help

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View



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Cite on Wikipedia



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Stafholtskirkja

Description: Hönnuður: Talið er að Magnús Árnason forsmiður hafi gert uppdrætti að kirkjunni, hugsanlega í samvinnu við Halldór Bjarnason forsmið, sem báðir unni að smíði kirkjunnar. Breytingar: Í öndverðu var forkirkja við vesturstafn, þakturn á bjúgstalli upp af stafninum, veggir klæddir listabíli en listasúð á þaki og átta rúðu hornsneiddir krosspóstagluggar í hliðarveggjum. Kirkjan var tjöruguð og stóð á steinhlóðnum sökkli. Á árunum 1888–1890 var bárujám lagt á þök og hluta forkirkju en tuminn klæddur sinki. Árið 1903 voru veggir kirkju og turns klæddir bárujám. Árið 1948 voru þakturn og forkirkja rifin en í þeirra stað smíðaður turn við vesturstafn, sökklar steinsteyptir og oddbogagluggar settir í kirkjuna. Hönnuður: Kristján F. Björnsson byggingameistari á Steinum. Árið 2009 var hafin viðgerð á kirkjunni og þrjár nýir gluggar með upprunalegi sniði settir á suðurhlíð. Stafholtskirkja er timburhús með afsniðin horn við kórbak, hliðarveggir eru 9,60 m að lengd, hornsneiðingar 2,96 m að lengd, og kórbak 3,28 m á breidd, og tvískiptur turn er við vesturstafn, 3,29 m að lengd og 4,06 m á breidd. Þak kirkju er krossreist en gaffsneitt yfir kór. Á stöpli er sveigt þak upp að ferstrendum turni með hátt piramítaþak sem sveigist út að neðan. Kirkjan er bárujámklædd og stendur á steinsteyptum sökkli. Þrjú átta rúðu hornsneiddir krosspóstagluggar eru á hvorri hlíð kirkju og einn á hvorri hornsneiðingu kórs. Einn smárúðottur oddbogagluggi er á framstafni stöplis yfir dyrum og þrjár á turnhlíðum. Fyrir kirkjudyrum eru spjaldsettar vængjahurðir og þvergluggi yfir. Í forkirkju er stigi upp í tuminn og spjaldsettar vængjahurðir að framkirkju. Inn að þeim er gangur og bekkir hvorum megin hans en veggbekkir í kór. Kórbil er á mörkum framkirkju og kórs og bogi yfir kóradyrum. Kór er hafinn yfir kirkjugólf um eitt þrep. Veggir forkirkju eru klæddir strikuðum panelborðum en kirkjan klædd spjaldabíli. Yfir fremri hluta framkirkju er loft á bitum en yfir innri hluta og kór er reitaskipt áttdeilt hvolþak sett stjórnnum. Heimildir: ÞÍ. Skjalasafn prófafa. Mýrprófastsdæmi AA/9. Stafholtskirkja 1884. Sigríður Björk Jónsdóttir. Kirkjur Íslands 14. Stafholtskirkja 244. ÞÍ. Skjalasafn prófafa. Mýrprófastsdæmi AA/9. Stafholtskirkja 1878. ÞÍ. Skjalasafn prófafa. Mýrprófastsdæmi AA/9. Stafholtskirkja 1890 og 1903. Biskupsskjalasafn C, V. 101. Bréf 1903. Reikningur yfir kostnað við umbót Stafholtskirkju 1903. ÞÍ. Biskupsskjalasafn 1994 AA/6. Stafholtskirkja 1949. Húsafríðunarnefnd. Skjalasafn. Stafholtskirkja. ; Friðuð 1. janúar 1990 samkvæmt aldursákvæði 1. mgr. 36. gr. þjóðminjalaga nr. 88/1989.

Geographic coverage: iid:3535175/SP.1

Date: 1875 ; <http://semium.org/time/1875>; <http://semium.org/time/1875>

Format: image/jpeg

Subject: listed buildings ; historic buildings

Identifier: 341

Language: is

Rights: <http://creativecommons.org/licenses/by/3.0/>

Provenance: The dataset is now owned by the Cultural Heritage Agency of Iceland

Source: The National Architectural Heritage Board

Data provider: The National Architectural Heritage Board

Provider: CARARE

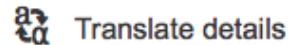
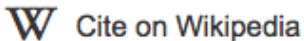
Providing country: Iceland

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Published record in
Europeana



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[Narodowy Instytut Dziedzictwa](#)



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Wrak "Solen" - kartusz działa polskiego

Alternative Title: Wrak "Solen" - kartusz działa polskiego

Description: Wrak „Solen”, Zatoka Gdańska. Detal działa polskiego wydobytego z wraku – najcenniejszego zabytku z „Solena”. Kartusz w kształcie wstęgi z herbami Pogoni litewskiej i Kolumnami Jagiellonów pod wspólną koroną; na wstędze kartusza napis Sigismu[ndus] August9 Rex Polo[niae] Mag[nus] Dux Lith[uaniae] Me Fa[ci]t] 1560; poniżej tabliczka z napisem: Hans Seber Gus Mich.

Geographic coverage: iid:2491163/SP.1

Date: XVII w.

Time period: nowożytność

Type: still image

Subject: wreck ; szwedzki galeon ; galeon ; bitwa pod Oliwą ; XVII w. ; wrak ; 17th century ; galeon ; Solen ; Swedish galeon ; <http://www.eionet.europa.eu/gemet/concept/12390>; <http://www.eionet.europa.eu/gemet/concept/12390>

Identifier: oai:nid.pl:3:26:R250

Relation: HA:oai:nid.pl:3:26

Language: PL

Rights: Centralne muzeum morskie w Gdańsku 2008

Source: Narodowy Instytut Dziedzictwa

Data provider: Narodowy Instytut Dziedzictwa

Provider: CARARE

Providing country: Poland

[Auto-generated tags](#) ▶

Search also for:

Title

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What


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[szwedzki galeon \(15\)](#)
[galeon \(33\)](#)
[bitwa pod Oliwą \(17\)](#)
[XVII w. \(163\)](#)
[wrak \(10458\)](#)
[17th century \(2235\)](#)
[galeon \(33\)](#)
[Solen \(2840\)](#)
[Swedish galeon \(15\)](#)
[http://www.eionet.europa.eu/gemet/concept/12390 \(10454\)](http://www.eionet.europa.eu/gemet/concept/12390)
[http://www.eionet.europa.eu/gemet/concept/12390 \(10454\)](http://www.eionet.europa.eu/gemet/concept/12390)
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[hulladékfajta \(10805\)](#)
[atkritumu veids \(10805\)](#)
[atlieķų tipas \(10805\)](#)
[abfallart \(10805\)](#)
[type of waste \(10805\)](#)
[廢料类型 \(10805\)](#)
[jäteluokka \(10805\)](#)
[тип отпадък \(10805\)](#)
[catégorie de déchets \(10805\)](#)
[avfallskategori \(10805\)](#)
[vrsta odpadkov \(10805\)](#)
[katégorie odpadov \(10805\)](#)
[hondakin-mota \(10805\)](#)
[affaldskategori \(10805\)](#)
[tipologia dei rifiuti \(10805\)](#)
[tip ta' skart \(10805\)](#)
[نوعية النفايات \(10805\)](#)


Provider

[Narodowy Instytut Dziedzictwa \(2645\)](#)
[CARARE \(2005117\)](#)


Another example – less descriptive text, better subject indexing, more enrichment




 Public Domain marked 


View item at
[The Danish Agency for Culture](#) 

 Share

 Cite on Wikipedia

 Translate details

Select language 

Powered by  Microsoft® Translator

Nørregade 12-14

Description: Forhusene (1799 og 1804). F. 1918.

Geographic coverage: iid:3237939/SP.1

Format: text

Subject: Etageboligbebyggelse

Identifier: <http://www.kulturarv.dk/fbb/building/11804516>

Language: Danish

Publisher: The Danish Agency for Culture

Source: The Danish Agency for Culture

Data provider: The Danish Agency for Culture

Provider: CARARE

Providing country: Denmark

[Auto-generated tags](#) ▶

Search also for:

Title

[Nørregade 12-14](#) (843)

What

[Etageboligbebyggelse](#) (21154)

Provider

[The Danish Agency for Culture](#) (301313)

[CARARE](#) (2005117)

Another example – core data



CARARE and EDM



Credits: Antoine Isaac, Valentine Charles, Kate Fernie,
Costis Dallas, Dimitris Gavrilis, Stavros Angelis



EDM rationale

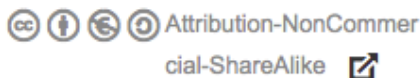
1. Distinguishes “provided objects” (painting, book, movie, etc.) from their digital representations
2. Distinguishes an object from its metadata record
3. Supports contextual resources, including concepts from controlled vocabularies
4. Draws from the vision of the Semantic Web and Linked Open Data



Europeana Data Model: an example



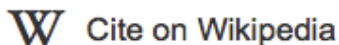
View



View item at
[Cité de la musique](#)



Share



Cite on Wikipedia

Clavecin

Description: 2 claviers : C / E à C^{'''}, 45 notes * 3 rangs de Cordes : 2 x 8" + 1 x 4" * Table en épicéa (?) * T * Collection Geneviève Thibault de Chambure

Creator: <http://www.mimo-db.eu/InstrumentMaker/Person/593>;
Cristofori

Coverage: <http://sws.geonames.org/3176959/>

Date: fin 17e

Type: <http://www.mimo-db.eu/InstrumentsKeywords/2251>;
<http://www.mimo-db.eu/HornbostelAndSachs/6461>

Identifier: #CM:0161930

Data provider: Cité de la musique

Provider: MIMO - Musical Instrument Museums Online

Providing country: MUL

[Auto-generated tags](#)

Search also for:

Title

[Clavecin](#) (1308)

Who

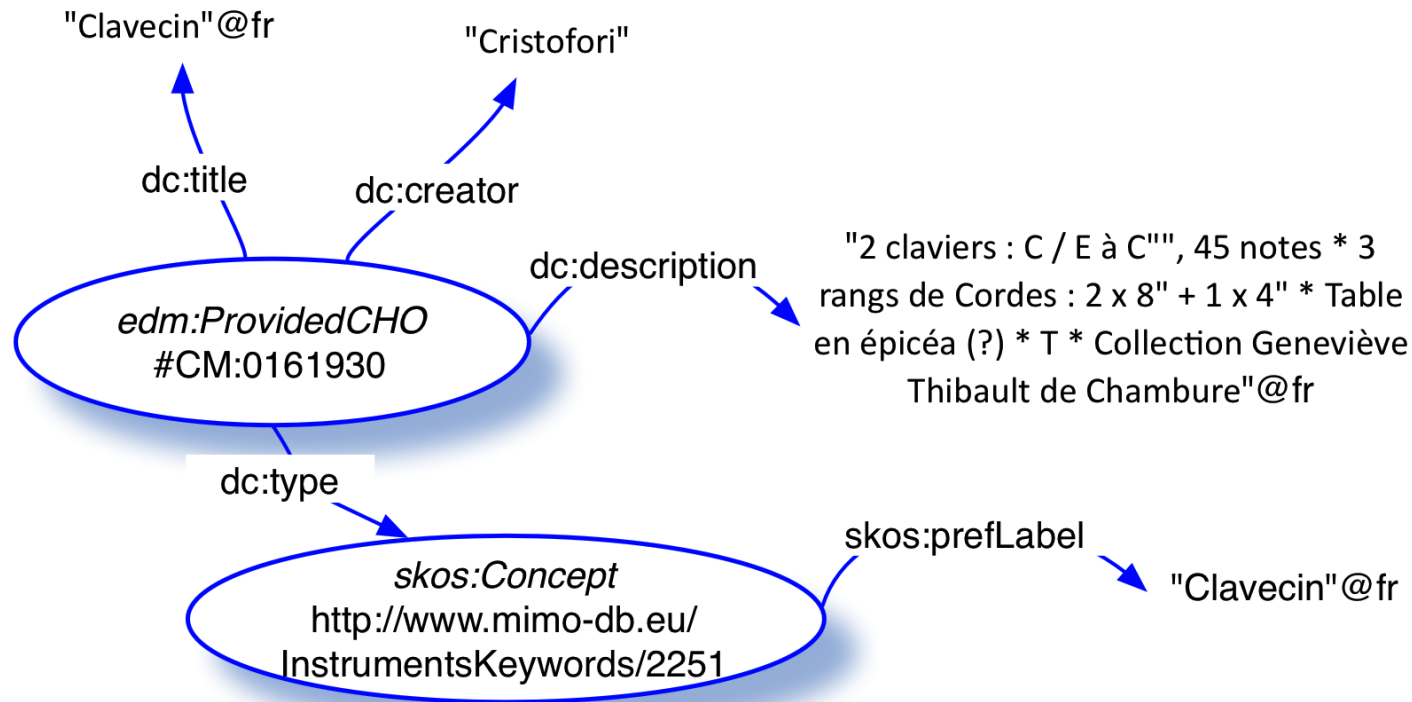
[Cristofori](#) (46)

Provider

[Cité de la musique](#) (23075)
[MIMO - Musical Instrument Museums Online](#) (36390)



Provided Cultural Heritage Object (CHO) and descriptive metadata



Web Resources – digital representations



edm:WebResource
<http://www.mimo-db.eu/media/CM/IMAGE/CMIM000030829.jpg>

edm:rights

<http://creativecommons.org/licenses/by-nc-sa/3.0/>

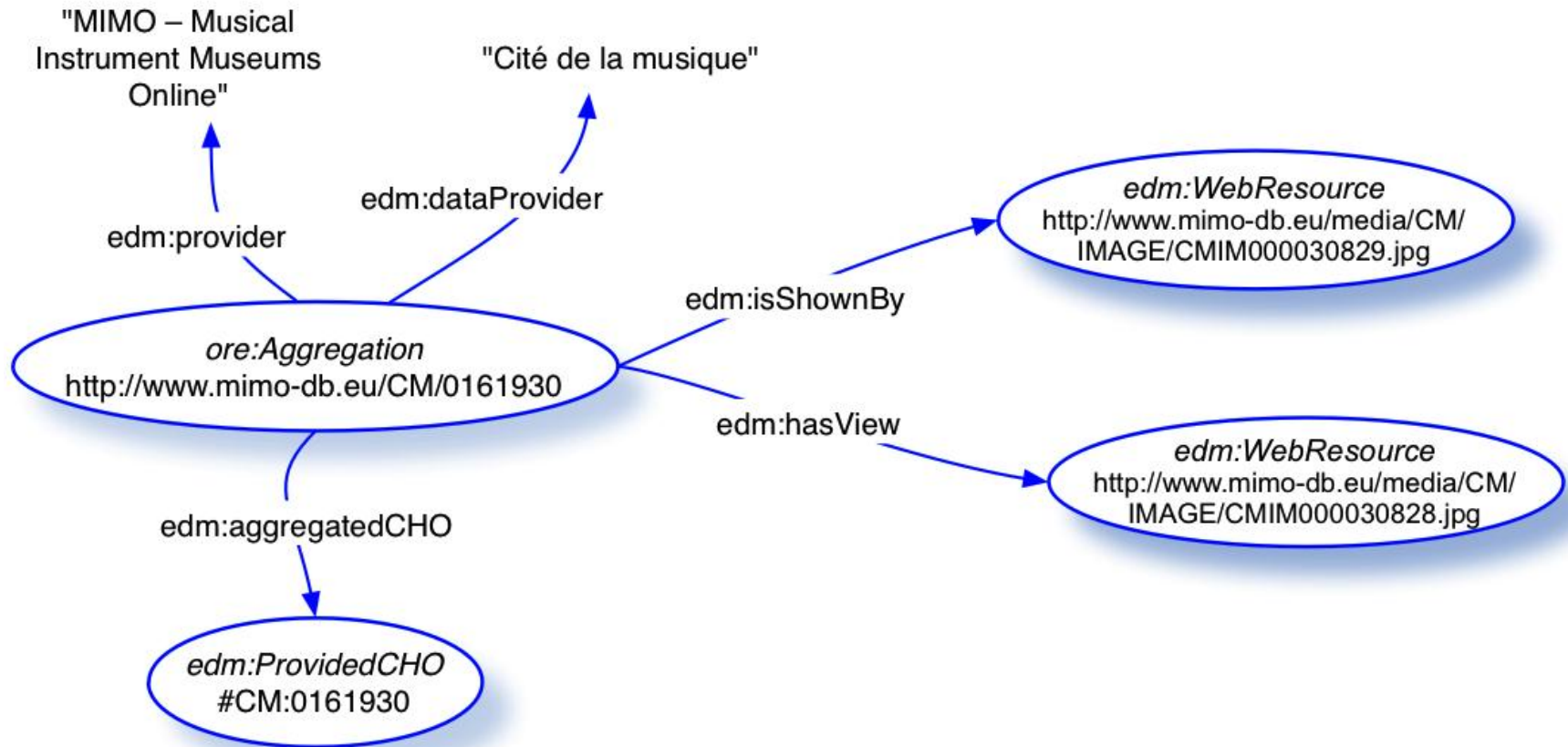


edm:WebResource
<http://www.mimo-db.eu/media/CM/IMAGE/CMIM000030828.jpg>

edm:rights

<http://creativecommons.org/licenses/by-nc-sa/3.0/>

Aggregations – Bundling it all together



CARARE to EDM mapping

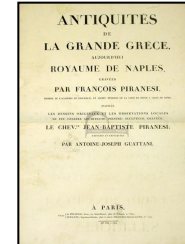
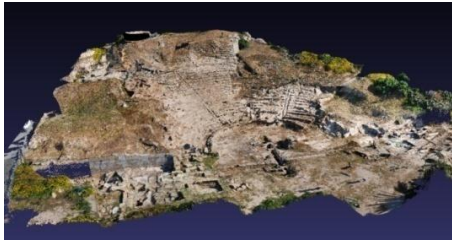
Mapping: finding correspondences between the elements of both models so that CARARE project could send EDM metadata to Europeana

Why is it important to report on this?

- Mapping is rarely an easy issue
- Models are complex, with subtle differences in world views
- Both CARARE and Europeana benefits from “mapping meditation”
One of the hardest (confronting) metadata exercises!
- Sharing concrete experiences benefits to all Europeana partners
And beyond: cf. goals of DC, “a metadata ecosystem”



Mapping CARARE data to EDM



A CARARE object becomes an EDM Provided Cultural Heritage Objects with:

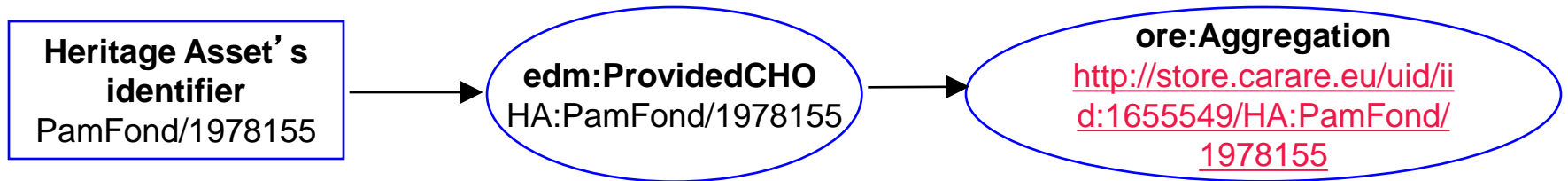
- Related web resources
- Aggregations
- Contextual information about place

Some activity and spatial data cannot currently be mapped



Creating EDM resources from CARARE data

CARARE's Heritage Assets always give rise to one EDM ProvidedCHOs with its companion Aggregation



CARARE's Digital Resources give rise to EDM Web Resources...

- In version 1.0 schema digital resources could give rise to EDM PCHOs depending on the collection



Digital resources as cultural objects representing the CARARE HA count as CHOs

Heritage Asset



Title: Casa di L. Popidius Secundus

ID
6396

Description
regio: 1, insula: 4, civico: 5,6,25.


Source
Scuola Normale Superiore - La Fortuna Visiva di Pompei

Rights
CCO 1.0 Universal Public Domain Dedication for metadata describing this monument


[edm:ProvidedCHO 1](#)

Related Digital Resources


<< 1 2 3 >>




Title: Italienische Reise. Immagini pompeiane nelle raccolte archeologiche germaniche



Title: Italienische Reise. Immagini pompeiane nelle raccolte archeologiche germaniche



Digital Resource



Title: Giuseppe Fiorelli, Carlo Sorgente, Tabula Urbana Veteris ac Currentis Pompeis...


edm:isRepresentationOf

[edm:ProvidedCHO 2](#)

[edm:ProvidedCHO 5](#)

Digital Resources that are *views* of lesser cultural importance are treated as EDM Web Resources

Heritage Asset

	<p>Title: Hastrup Bygade, Gadstrup</p> <p>ID http://www.kulturarv.dk/fbb/building/7270018</p> <p>Description This building has been evaluated using the SAVE method, and has been given a preservation value of 3 on a scale from 1-9 (1 being the best value). På grund af miljø. Originale vinduer og døre /port bør bevares</p> <p>Source The Danish Agency for Culture</p> <p>Rights CCO 1.0 Universal Public Domain Dedication for metadata describing this monument</p>
---	---


[edm:ProvidedCHO 1](#)

Related Digital Resources

[edm:WebResource 1](#)


<p>Title: Facade</p>
<p>Digital Resource details</p>

[edm:WebResource 2](#)


<p>Title: Hastrup Bygade 20, 4621 Gadstrup</p>
<p>Digital Resource details</p>

Contextual Resources – e.g., Places

Dolní Kounice

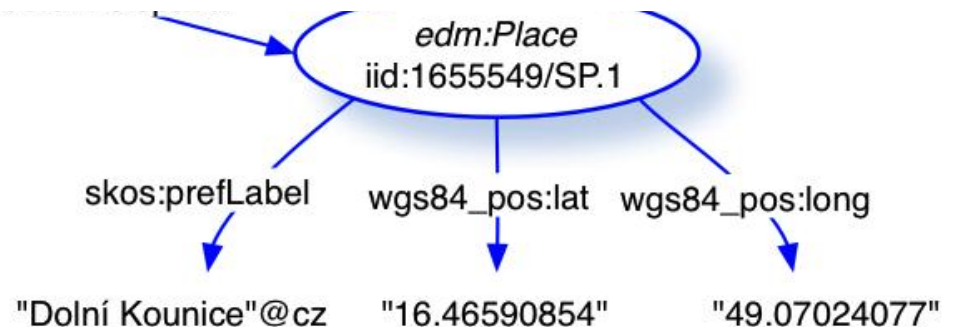
From Wikipedia, the free encyclopedia

Dolní Kounice (Czech pronunciation: [ˈdɔlniː ˈkounit͡sɛ]; German: *Kanitz*) is a small town in the South Moravian Region of the Czech Republic. It has around 2,400 inhabitants.

htt
1655



CARARE's geospatial
enrichment represented with
EDM contextual resource
class



CARARE experience and EDM mapping

CARARE provides better metadata to Europeana for 2M objects

In the process of mapping to EDM

- We identified some issues with the content being provided, the data model and found solutions in the mapping to EDM
- This prompted an update to CARARE schema, completed under 3D ICONS -> **CARARE 2.0**
- It confirms the relevance of a rich model like CARARE as an application profile for Europeana
- And provides a platform for publishing as Linked Open Data
- Which we will use in **LoCloud**

LoCloud

Exploring the potential of cloud computing for metadata aggregation, enrichment and reuse, with a special focus on geographic location

- MINT for metadata mapping
- CARARE, LIDO, EAD schemas as intermediaries to EDM or direct mapping to EDM



– <car:heritageAssetIdentification>

– <car:recordInformation>

<car:id>80912</car:id>

<car:source>Heritage Malta</car:source>

<car:country>Malta</car:country>

<car:language lang="en"/>

– <car:rights>

– <car:copyright>

<car:rightsHolder>Heritage Malta</car:rightsHolder>

</car:copyright>

</car:rights>

</car:recordInformation>

– <car:appellation>

<car:name lang="en">Ta' Hagraġ Temples</car:name>

<car:id>80912</car:id>

</car:appellation>

– <car:description lang="en">

Set in the town of Mgarr, in the North of Malta, smaller than most other sites of a similar nature, Ta' Hagraġ is home to two well-preserved temples. Mgarr is an area rich in sites of archaeological importance from various periods of the island's past. Apart from the presence of another megalithic temple, Skorba, only a few hundred metres away, the area includes remains of several cart ruts, quarries, tombs and catacombs as well as a World War II emplacement. The site was excavated between 1923 and 1926 with some other minor interventions in 1953 and in the 1960s. The larger of the two, probably from the Ggantija phase (3600 - 3200 BC), has a monumental facade with a bench running along its length as well as a courtyard measuring approximately 2.5m by 4.5m, surrounded by a raised stone kerb. The space, accessible through the entrance corridor of the temple, in turn provides access to three chambers through megalithic doorways. The main doorway of this structure was restored in 1937 with the replacement of the door lintel to its original position. The smaller temple, built on a simple trefoil plan, is linked to the earlier one through a doorway in the eastern room. The dating of the smaller temple is still uncertain although the finds indicate a Saffi phase (3,300 - 3,000 BC) date. Ceramic material from both earlier and later periods were also found within the site indicating that the site both before and after the construction of the Temples.

</car:description>

– <car:designations>

– <car:protectionType lang="en">

UNESCO World Heritage Site - One of six sites which make up "The Megalithic Temples of Malta", one of Malta's inscriptions into the World Heritage List

</car:protectionType>

<car:grade lang="en">WHS</car:grade>

<car:displayDate>1992</car:displayDate>

<car:displayDate>1997</car:displayDate>

</car:designations>

– <car:characters>

– <car:heritageAssetType lang="en">

Malta; Temples; Temple period; prehistory; World Heritage Site; Ta' Hagraġ; Hagraġ

</car:heritageAssetType>

<car:heritageAssetType>prehistoric structure</car:heritageAssetType>



<rdf:RDF>

- <edm:ProvidedCHO rdf:about="HA:80912">

- <dc:description xml:lang="en">

Set in the town of Mgarr, in the North of Malta, smaller than most other sites of a similar nature, Ta' Hagraat is home to two well-preserved temples. Mgarr is an area rich in sites of archaeological importance from various periods of the island's past. Apart from the presence of another megalithic temple, Skorba, only a few hundred metres away, the area includes remains of several cart ruts, quarries, tombs and catacombs as well as a World War II emplacement. The site was excavated between 1923 and 1926 with some other minor interventions in 1953 and in the 1960s. The larger of the two, probably from the Ggantija phase (3600 - 3200 BC), has a monumental facade with a bench running along its length as well as a courtyard, measuring approximately 2.5m by 4.5m, surrounded by a raised stone kerb. The space, accessible through the entrance corridor of the temple, in turn provides access to three chambers through megalithic doorways. The main doorway of this structure was restored in 1937 with the replacement of the door lintel to its original position. The smaller temple, built on a similar trefoil plan, is linked to the earlier one through a doorway in the eastern room. The dating of the smaller temple is still uncertain although the finds indicate a Saffieni phase (3,300 - 3,000 BC) date. Ceramic material from both earlier and later periods were also found within the site indicating that the site both before and after the construction of the Temples.

</dc:description>

<dc:format>text</dc:format>

<dc:identifier>80912</dc:identifier>

<dc:language xml:lang="en"/>

<dc:publisher>Heritage Malta</dc:publisher>

<dc:source>Heritage Malta</dc:source>

- <dc:subject xml:lang="en">

Malta; Temples; Temple period; prehistory; World Heritage Site; Ta' Hagraat; Hagraat

</dc:subject>

<dc:subject>prehistoric structure</dc:subject>

<dc:title xml:lang="en">Ta' Hagraat Temples</dc:title>

<dcterms:medium>Stone - Globigerina Limestone</dcterms:medium>

- <dcterms:references>

"Evans, J.D. 1971, The Prehistoric Antiquities of the Maltese Islands: A Survey, Athlone Press, University of London",

</dcterms:references>

<dcterms:spatial rdf:resource="iid:3556456/SP.1"/>

<dcterms:temporal xml:lang="en">4100 to 3700 BC</dcterms:temporal>

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<dcterms:temporal xml:lang="en">3600 to 3200 BC</dcterms:temporal>

<dcterms:temporal xml:lang="en">3300 to 3000 BC</dcterms:temporal>

<edm:type>TEXT</edm:type>

<edm:isRelatedTo rdf:resource="DR:80912"/>

</edm:ProvidedCHO>

The same record presented in EDM




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</edm:WebResource>
- <edm:Place rdf:about="iid:3556456/SP.1">
  <wgs84_pos:lat>443029.83</wgs84_pos:lat>
  <wgs84_pos:long>3975098.35</wgs84_pos:long>
  <skos:prefLabel>Mgarr</skos:prefLabel>
  - <skos:note>
    Ta' Hagrat Temples, St Peter Street, Mgarr, MGR 1541, Malta
  </skos:note>
</edm:Place>
- <ore:Aggregation rdf:about="http://store.carare.eu/uid/iid:3556456/DR:80912.1">
  <edm:aggregatedCHO rdf:resource="DR:80912"/>
  <edm:dataProvider>Heritage Malta</edm:dataProvider>
  <edm:provider>CARARE</edm:provider>
  <edm:isShownBy rdf:resource="http://www.heritagemalta.org/hagrat-3d"/>
  <edm:isShownAt rdf:resource="http://www.heritagemalta.org/hagrat-3d"/>
  <edm:object rdf:resource="http://80.71.54.169/wp5/wp-content/uploads/2013/03/100_9888.jpg"/>
  <dc:rights>http://creativecommons.org/licenses/by-sa/3.0/</dc:rights>
  <dc:rights>Heritage Malta</dc:rights>
</ore:Aggregation>
</rdf:RDF>

```

EDM – web resource and aggregation





Thank you!

Kate Fernie

kfernief27@gmail.com

