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Linked Metadata for 3D Models: from Dublin Core to Europeana Data Model

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LINKED METADATA FOR 3D-MODELS: FROM DUBLIN CORE TO EUROPEANA DATA MODEL

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Tampa, Florida
January 21, 2017

Project Background



Lori Collins



Travis Doering

Drs. Lori Collins and Travis Doering are Research Associate Professors, archaeologists, and co-directors of the University of South Florida Libraries' Digital Heritage and Humanities Collections (DHHC).

Digital 3D Models Collections

DHHC: Cultural heritage objects

[Digital 3D models](#)

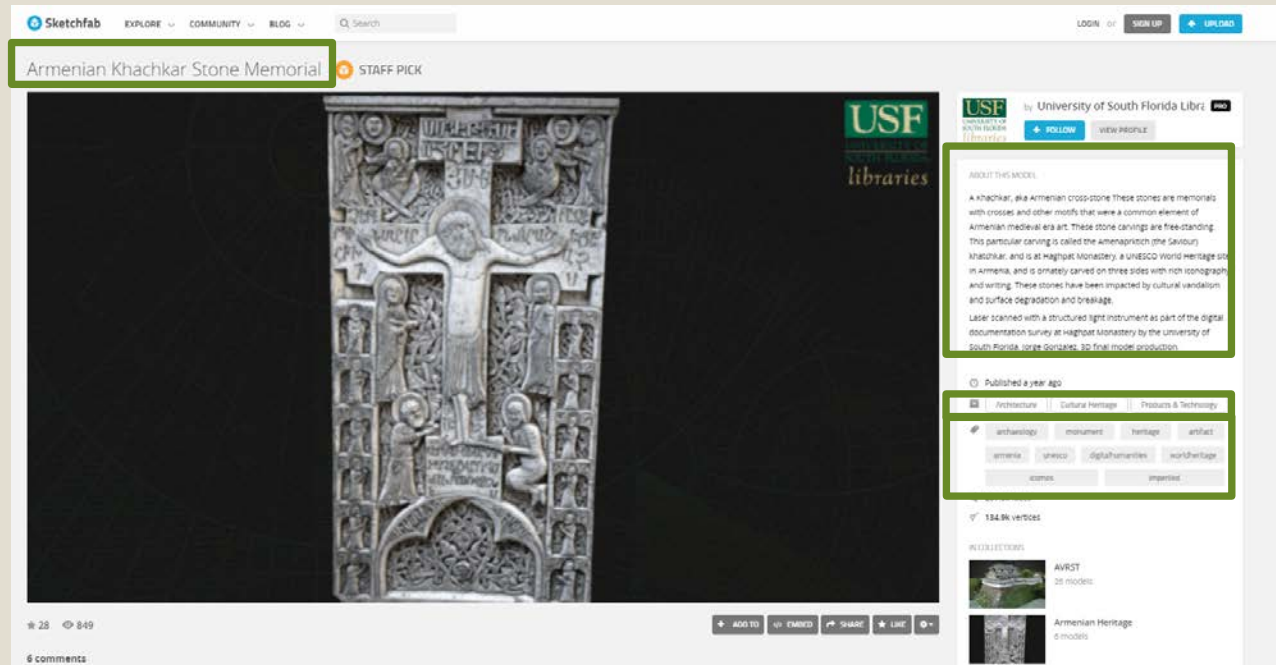
Europeana Data Model

[Europeana Collections](#)



Sketchfab

Title



Description

Subject

Social Media Tags

SobekCM

Title

Description

Social Media Tags

STANDARD VIEW MARC VIEW METADATA USAGE STATISTICS

Permanent Link: <http://digital.lib.usf.edu/SFS0080375/00001>

Material Information

Title: Armenian Khachkar Stone Memorial
Armenian cross-stone

Added title page title

Creator: Collins, Lori D.
Doering, Travis F.
Gonzalez, Jorge (Modeler)

Publication Date: 12/3/2015

Language:

Technique: Terrestrial laser scanning

Subjects

Subjects / Keywords: Architecture (Discipline) (lsh)
Cultural Heritage (lsh)
Products and Technology (local)
Archaeology (lsh)
Armenia (lsh)
Artifact (local)
Digital humanities (lsh)
Heritage (local)
International Council Of Monuments And Sites (lsh)
Imperiled (local)
Monument (local)
Unesco (lsh)
World Heritage Areas (lsh)
3D model (Format/ file type)

Location: Asia -- Armenia

Notes

Abstract: A Khachkar, aka Armenian cross-stone These stones are memorials with crosses and other motifs that were a common element of Armenian medieval era art. These stone carvings are free-standing. This particular carving is called the Amenaprktich (the Saviour) khatchkar, and is at Haghpat Monastery, a UNESCO World Heritage site in Armenia, and is ornately carved on three sides with rich iconography and writing. These stones have been impacted by cultural vandalism and surface degradation and breakage. Laser scanned with a structured light instrument as part of the digital documentation survey at Haghpat Monastery by the University of South Florida. Jorge Gonzalez, 3D final model production.

Hashtags #archaeology, #armenia, #artifact, #digitalhumanities, #heritage, #icomos, #imperiled, #monument, #unesco, #worldheritage

Record Information

Source Institution: University of South Florida Library


Holding Location: University of South Florida

Rights Management: All applicable rights reserved by the source institution and holding location.

Resource Identifier: U44-00038 (USFLDC DOI)
u44.38 (USFLDC Handle)
731f8fe01d6d434eac9ab70110824a97 (Sketchfab:DataUID)

USFLDC Membership

Aggregations: The Armenian Heritage and Social Memory Program
3D Models Digital Documentation Collection



Enhanced Metadata Fields

Cultural Heritage Object

CHO Identifier	
Title	Armenian Khachkar Stone Memorial
Alternative title	Amenaprktich (the Saviour) khatchkar
Time period	Early Medieval
Country	Armenia (Republic)
Location	Monastery of Haghpat
Materials	Stone (worked rock)
Architecture type	Monumental stone
Description	A Khachkar, aka Armenian cross-stone These stones are memorials with crosses and other motifs that were a common element of Armenian medieval era art. These stone carvings are free-standing. This particular carving is called the Amenaprktich (the Saviour) khatchkar, and is at Haghpat Monastery, a UNESCO World Heritage site in Armenia, and is ornately carved on three sides with rich iconography and writing. These stones have been impacted by cultural vandalism and surface degradation and breakage. Laser scanned with a structured light instrument as part of the digital documentation survey at Haghpat Monastery by the University of South Florida. Jorge Gonzalez, 3D final model production.
Dimensions	
Language	

Digital representation

Resource link	http://digital.lib.usf.edu/l/SFS0060375/00001/e/video
Creator	Collins, Lori D. (Project investigator)
	Doering, Travis F. (Project investigator)
Contributor	Gonzalez, Jorge (3D modeler)
Scanning date	20151203
Record creation date	20161013
Imaging technique	Terrestrial laser scanning
Format	3D
Equipment	

Rights holder

Institutional identifier	http://digital.lib.usf.edu/SFS0060375
Institution	University of South Florida
Holding Location	University of South Florida Library
Resource identifier	u44.38 (USFLDC Handle) U44-00038 (USFLDC DOI) 731f6fe01d6d434eac9ab70110824a97 (sketchfab:DataUID)

Enhanced Metadata Fields

Subject

Subject	Architecture (Discipline)
	Cultural Heritage
	Archeology
	Digital Humanities
	World Heritage Areas
Affiliations	UNESCO World Heritage site
	International Council of Monuments and Sites
Keywords	Artifact
	Heritage

Keywords	Imperiled
	Monument
	Khachker
	Armenian cross-stone
	Stone Carving
	Cross motifs
Hashtags	archaeology, armenia, artifact, digitalhumanities, heritage, icomos, imperiled, monument, unesco, worldheritage

Rights

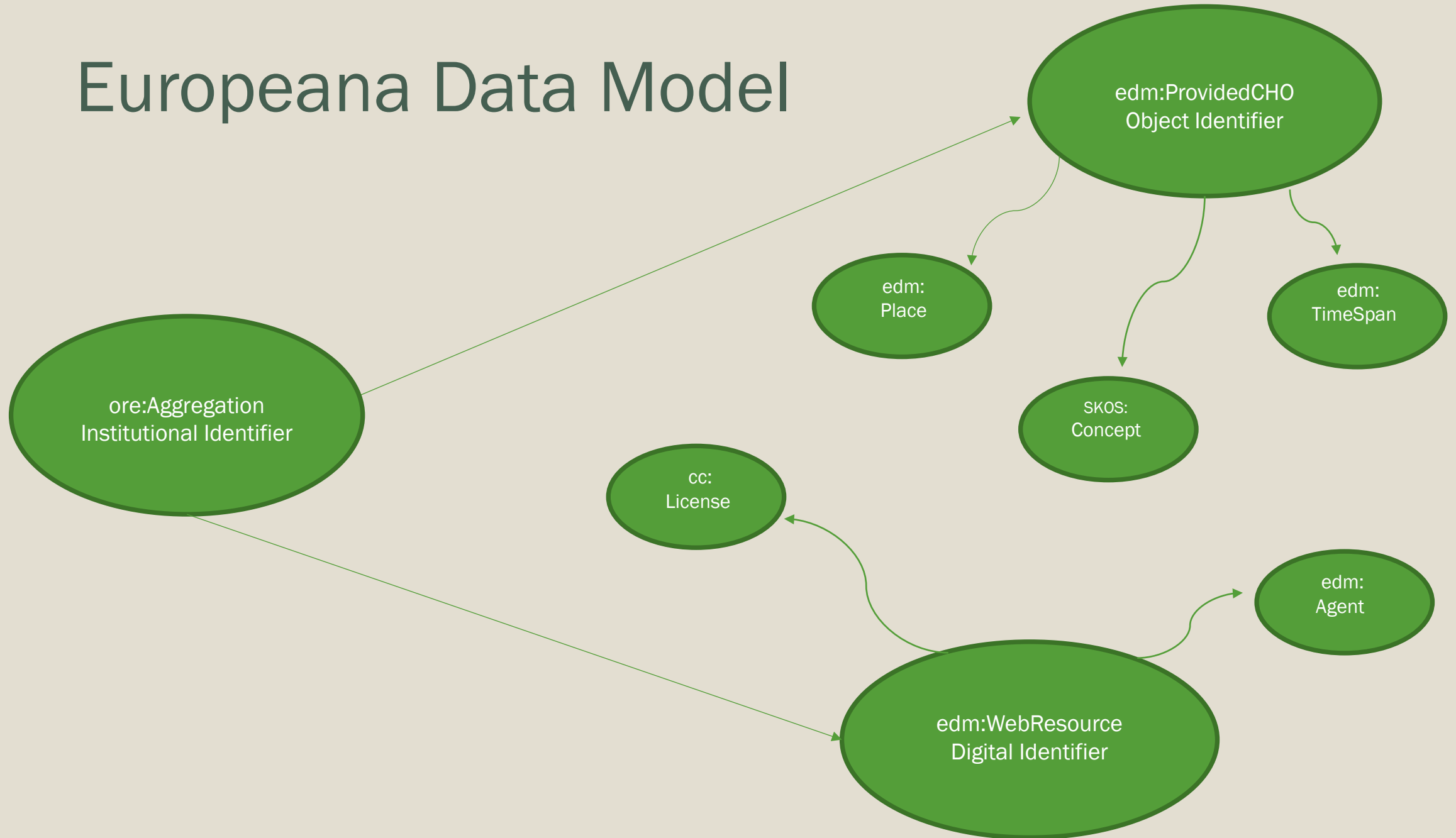
Rights	All applicable rights reserved by the source institution and holding location.
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Crosswalk

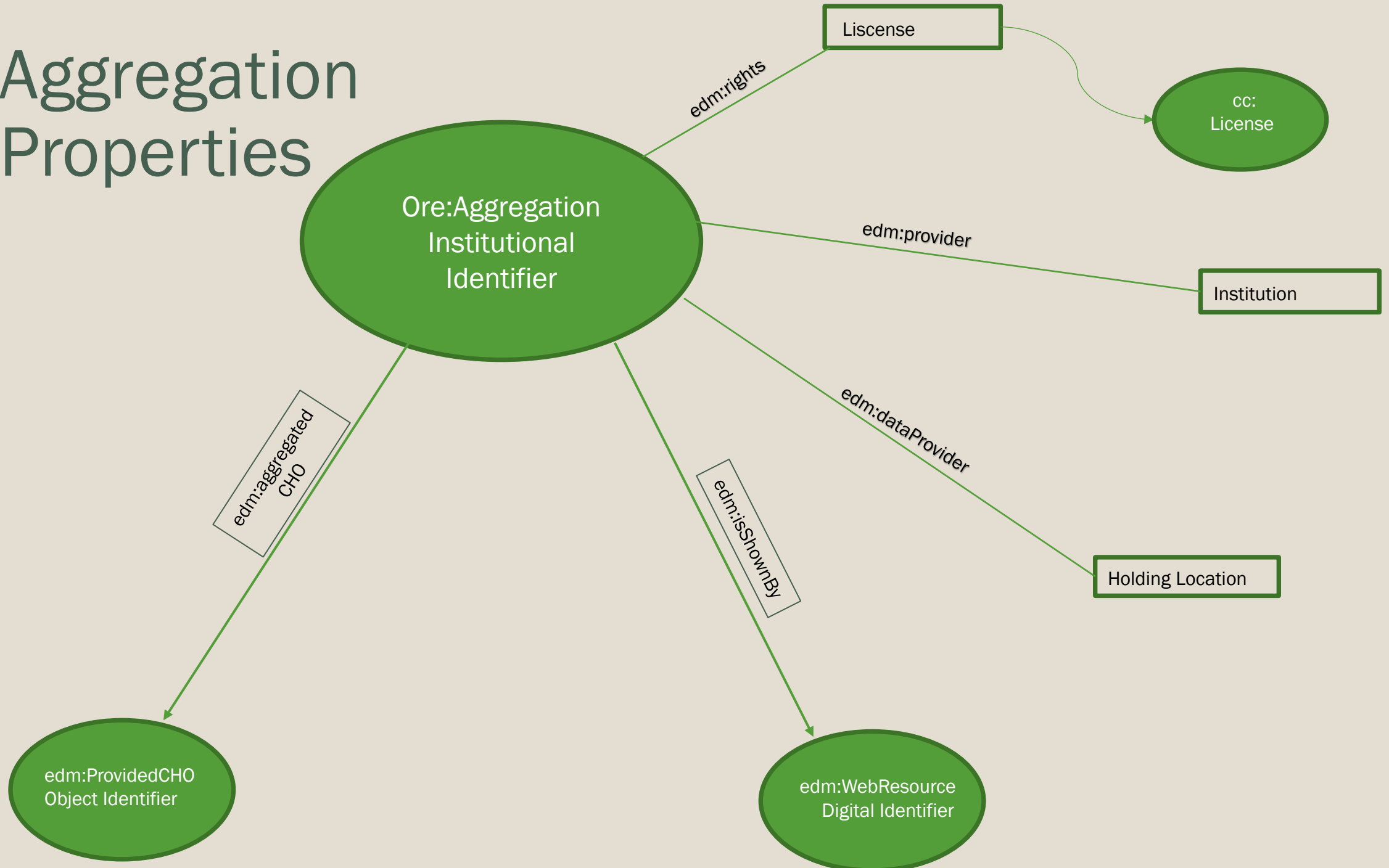
3D Model Schema	SOBEK	EDM
Title	dc:title	dc:title
Alternative Title	dcterms:alternative	dcterms:alternative
Creator	dc:creator	edm:Agent
Contributor	dc:contributor	edm:Agent
Scanning Date	dcterms:created	dcterms:created
Record Creation Date	dcterms:issued	dcterms:issued
Language	dc:language	dc:language
Country	vra:culturalContext	edm:Place
Location	dcterms:spatial	edm:currentLocation
Architecture Type	dc:type	edm:hasType
Time Period	dcterms:temporal	edm:TimeSpan
Dimensions	dc:extent	dc:extent
Materials	dcterms:medium	dcterms:medium
Description	dc:description	dc:description
Digital Format	dc:format	edm:type
Imaging Technique	vra:technique	dc:format
Equipment	dc:extent	dc:format

3D Model Schema	SOBEK	EDM
Subjects	dc:subject	skos:concept
Keywords	dc:subject	dc:subject
Hashtags	vra:subject.otherTopic	dc:subject
Affiliations	dc:subject	skos:concept
Institution	dcterms:rightsHolder	edm:provider
Holding Location	dc:publisher	edm:dataProvider
Rights	dc:rights	edm:rights
CHO Identifier		edm:aggregatedCHO
Institution identifier		ore:Aggregation
Resource Identifier	dc:identifier	dc:identifier
Resource Link	dc:identifier	edm:isShownBy

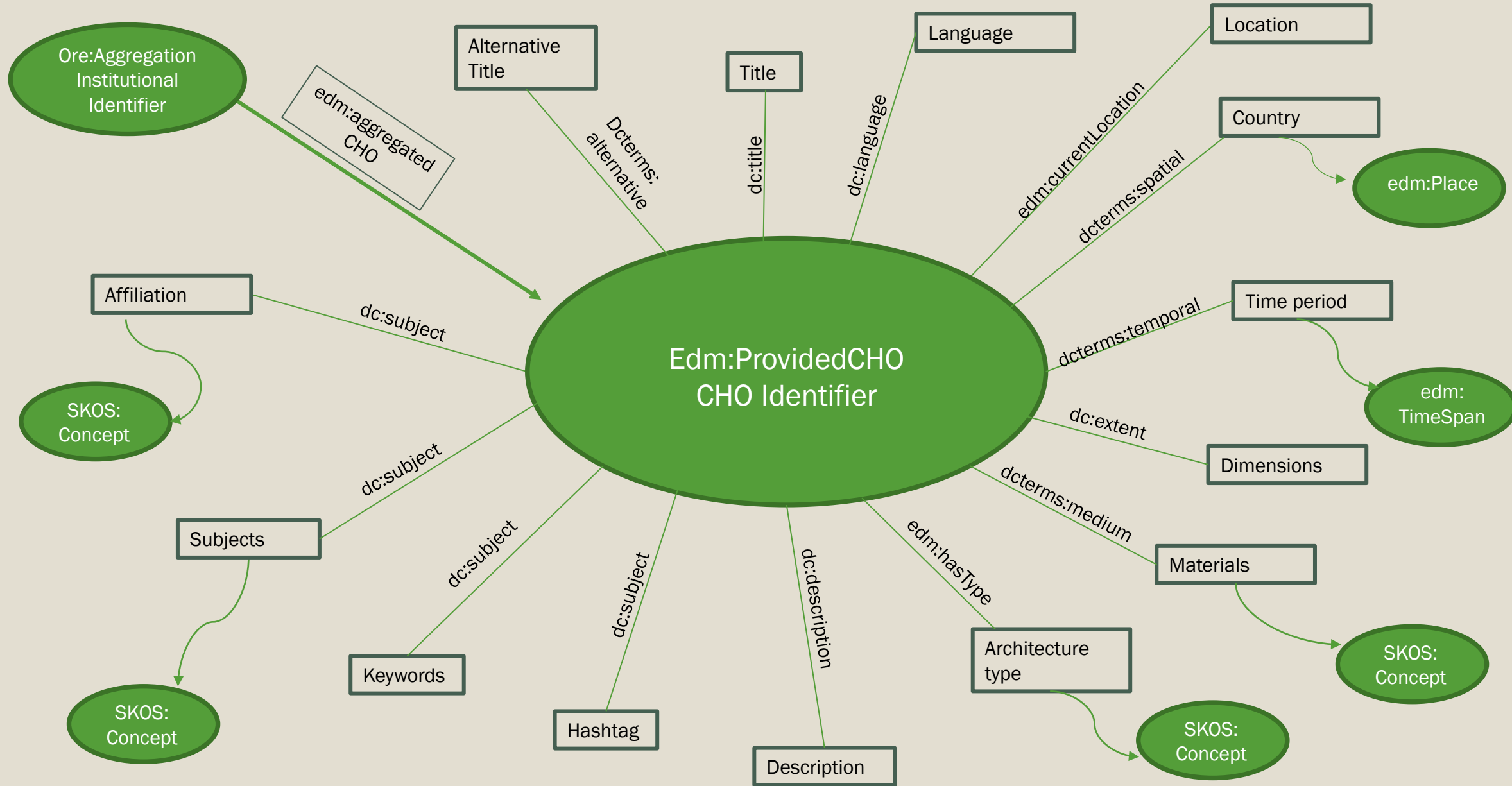
Europeana Data Model



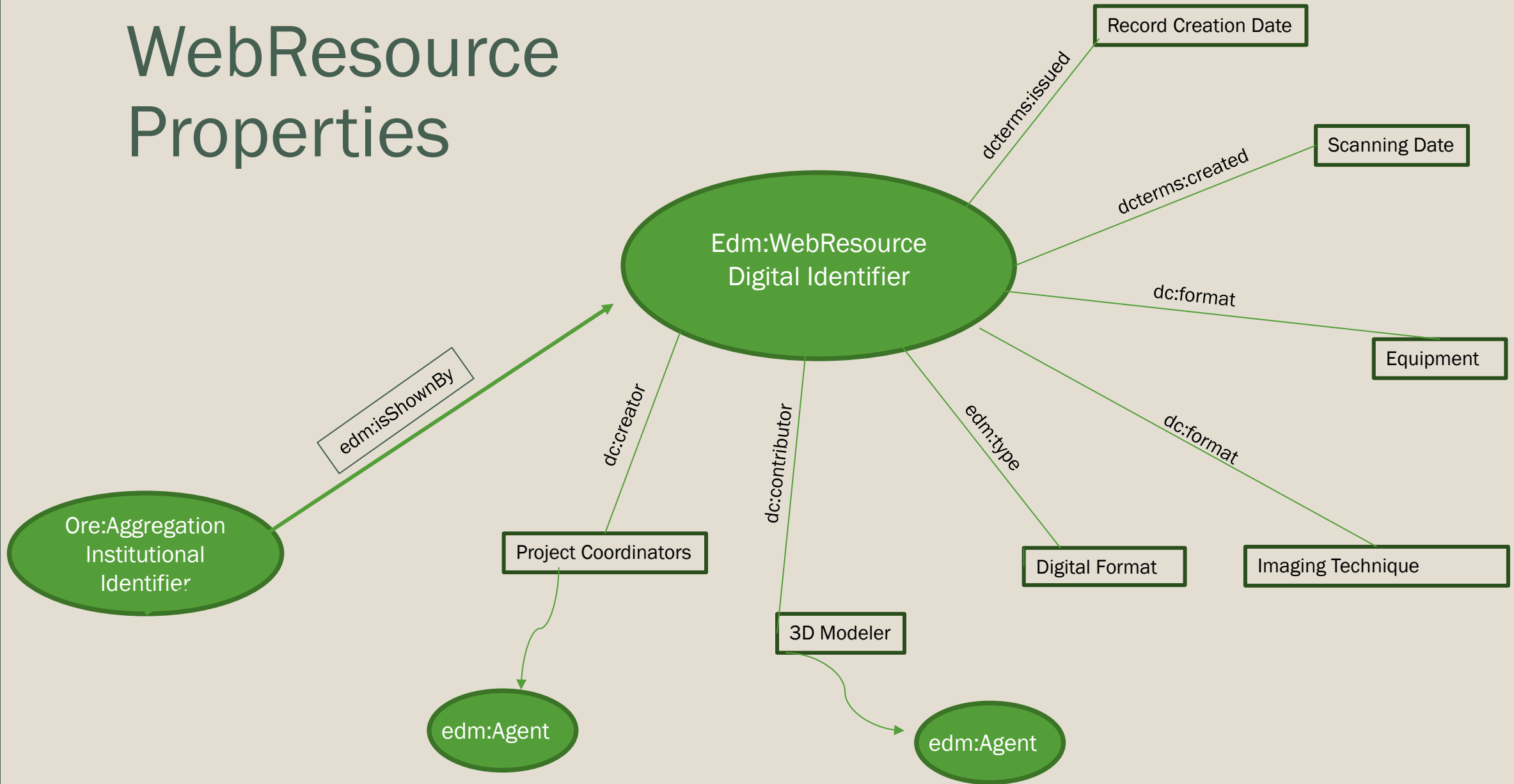
Aggregation Properties



Cultural Heritage Object Properties



WebResource Properties



Linked Open Data

Vocabularies:

Getty Art and Architecture Thesaurus: <http://vocab.getty.edu/aat>

Getty Thesaurus of Geographic Names: <http://vocab.getty.edu/tgn/>

Getty Union List of Artist Names: <http://vocab.getty.edu/ulan/>

Library of Congress Subject Headings: <http://id.loc.gov/authorities/subjects.html>

LC Name Authority File: <http://id.loc.gov/authorities/names.html>

Virtual International Authority File: <https://viaf.org/>

Linked Data Resources

LC Linked Data Service : <http://id.loc.gov/>

Free Your Metadata : <http://freeyourmetadata.org/>

Linked Data for Libraries (LD4L) : <https://www.ld4l.org/>

OpenRefine : <http://openrefine.org/>

MarcEdit : <http://marcedit.reeset.net/>



References

Github: <https://github.com/mixiying/EDM-schema/blob/master/EDMTemplate.xml>

Sketchfab: https://sketchfab.com/USF_digital

SobekCM: <http://digital.lib.usf.edu/l/3d-models>

Europeana Data Model: <http://pro.europeana.eu/page/edm-documentation>

Europeana Collections: <http://www.europeana.eu/portal/en>

Dublin Core: <http://dublincore.org/documents/dcmi-terms/>

Digital Public Library of America: <https://dp.la/>

Thank You !

