Linked Conservation Data

Notes on discussing terminology

Athanasios Velios 🏥 English Heritage

NKOS workshop – 9 Nov 2023



Linked Conservation Data





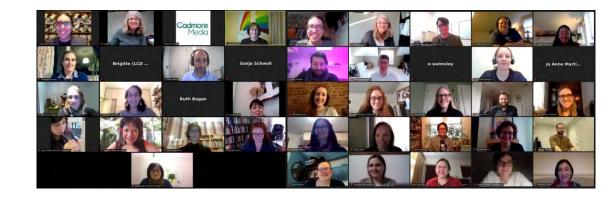
Portrait of Olive Boteler Porter by Anthony van Dyck, before and after conservation, The Bowes Museum











Benefits of integration

- Understanding the technology of objects (materials and techniques)
 - better-informed decisions on how to care for and treat objects
- Assessing new (and old) materials and techniques for treatment
 - access observations of colleagues on new materials and techniques to decide on suitability
- Identifying patterns of damage
 - correlation between damage and other parameters such as treatment materials, geographical location and environmental conditions
- Environment control based on condition surveys and monitoring data
 - better-informed choices for managing the environment of objects
- Identifying trends in the work of conservators
 - study conservation work undertaken in different territories and how this relates to professional issues such as the type of training available, contractual status, age etc.
- Estimating the condition of collections at a broad/national level and supporting arguments for funding



Home Resources - Meetings - Consortium Introduction to Linked Data - Updates

Linked Conservation Data

Linked Conservation Data is a Network of partners working on improving access to conservation documentation records. The aim of the Network is to discuss and report on ways that conservation documentation can be disseminated and re-used more effectively through Dinked Data.

Project objectives

We have identified three areas of development for the network's attention: Terminology, Modelling, and Dissemination.

- Terminology: In the Semantic Web, communicating by using a variety of terminology traditions is important for disambiguation: The Network will assess the suitability of existing vocabularies in concervation and identify the amount of work needed both in terms of coverage and in terms of formatting to improve them for use in Linked Data applications. The relevant Linked Data applications is SNOS.
- Modelling: In the Semantic Web, the type of sach published record needs to be explicitly declared. For example, machines need to be able to handle records of type condition assessment and neords of type treatment proposal differently. A standard which provides different types of records (classes) is the CIDOC-CRM. The Network will assess the satisability of the CRM and its extensions for conservation.
- Obscentration: The Network will share best practices for producing Linked Data from conservation documentation and report on the readiness and capacity of existing software to host
 and share Linked Data.

Terminology guidelines

Contact

Address:

London

SW1P 4IU

Email: Athanesios Vellos

Linked Conservation Data / Ligatus University of the Arts London Chelsea College of Arts 16 John Islip Street

See the terminology guidelines on GitHub.

Following a review of terminology in conservation, the Linked Conservation Data project has established a Girlburg repository to show a model of the second versions of vocabularies used by conservators. This repository will function as the basis of a terminology pural for conservators. A list of some of these vocabularies can be found on the controlled vocabularies page.

Overview of current conservation and restoration models

This report is a review of published work describing models for conservation data bacid on the CIDQ-C-RM and its extensions. The report is an analysis of the new classes and propertier recommended, as well as the mapping desclinons adopted for the published models. The report Identifies common practices and recomments ways of harmonising the different models. It proposes areas where further modelling work is meeded and attempts to organise this work in conceptually coherent groups from a conservation perspective.

Dervice of cores coveration and restriction models (PDF, \$1.3048) \$12.79 Hill

Conservation data policy template and primer

Policy template and primer for conservation data in memory organisations.

Policy template and primer (DOCC format)	1/1.19 #8
Policy template and primer (501 formul)	1/0.93 KS
Policy template and primer (PUF format)	141.45 80

Visit the LCD Linked Data Pilot

Rend the LCD Linked Data Pilot su

The LCD pilot working group including the Bodieian Library, Oxford; the Library of Congress; the National Archives (UK); and Stanford Libraries undertook a Linked Data pilot to explore a book conservation case study; reattaching detached boards.

Username*	
Password*	
Log in Reset your paseword	

Repository and Portal

Research Council

Funded By

Arts and

Humanities

O O ResearchSpace
 GitHub repository - ResearchSpace portal

https://www.ligatus.org.uk/lcd/

Data sharing policy template

	ed Conservation		
Home - Resources - Reports - Conserve	ion data policy template and primer (phase 2)		
Policy template and primer for conservati	atification DOCX format)	ncorporates changes as a result of discussions at the IIC	
Contact Address: Linked Conservation Data / Ligatus University of the Arts London Chelsea College of Arts 16 John Blip Street London	Repository and Portal () ResearchSpace GitHub repository - ResearchSpace portal Funded by	User Login Username * Password *	Linked Conservation Data LCD Strategy Working Group Data policy primer and template
SW1P 4U Email: Brigitte Hart	Arts and Humanities Research Council	Log in	dogos - IIC, Icon, AIC>
		5 6	Contributions by: Sara Crots, Anni Mariymiemi, Sarah Starmage, Kristen SLJohn, Athanasios Velios, Eryf Wentworth and others.
://www.ligatus	.org.uk/lcd/output/2	216 · · · · · · · · · · · · · · · · · · ·	Linked Conservation Data is funded by: Arts and Humanities Research Council

CIDOC-CRM

Suitability for conservation

- Actively engaged in the community
- Event-based model
 - how objects change
 - development of condition
 - scientific measurements and sampling

CIDOC-CRM

Suitability for conservation

- Identify missing classes and properties
 - recording risk
 - negative statements
 - treatment plans
 - exhibition instructions
- Decide how best to use the CRM
 - Discuss minimum conservation model
 - Consider extensions: CRMsci, CRMact etc.



Linked Conservation Data Pilot

hosted by the British Museum using ResearchSpace

This site is a pilot implementation of Linked Data in conservation using a specific case study from the field of book conservation: board re-attachment. Books with detached boards are common in historic library collections and conservators have applied a variety of techniques and materials when re-attaching boards over the years.

Board re-attachment research questions

Books

Example conservation record

Example conservation report

The institutions which contributed to the pilot are:

- Stanford Libraries
- Bodleian Library
- Library of Congress
- The National Archives (UK)

In the near future we also expect contributions from the British Library

https://lcd.researchspace.org/

This project is funded by the



What is Linked Conservation Data?

Linked Conservation Data is a Network of partners working on improving access of conservation documentation records. The aim of the Network is to discuss and report on ways that conservation documentation can be disseminated and re-used more effectively through Linked Data.

LCD Project

LCD Partners and Contributors

What is Linked Data?

Linked Data refers to a set of technologies which are delivering the Semantic Web. Linked Data allows sharing of datasets across institutions by enabling joint query and cross-linking of individual records (not only document hyperlinks). We are exploring these technologies for the benefit of conservation.

W3C introduction

LCD introduction to Linked Data



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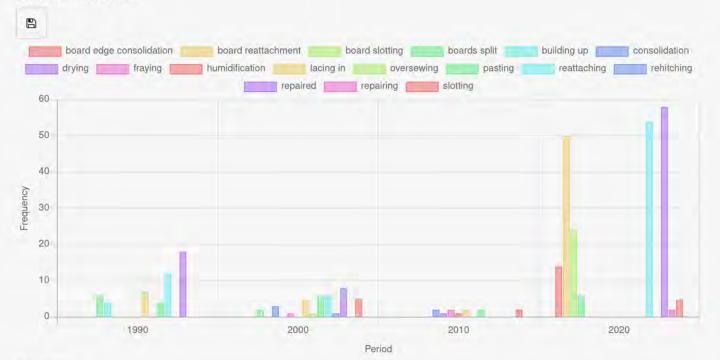
LCD introduction to Linked Data



LCD pilot research questions

Board attachment techniques over time

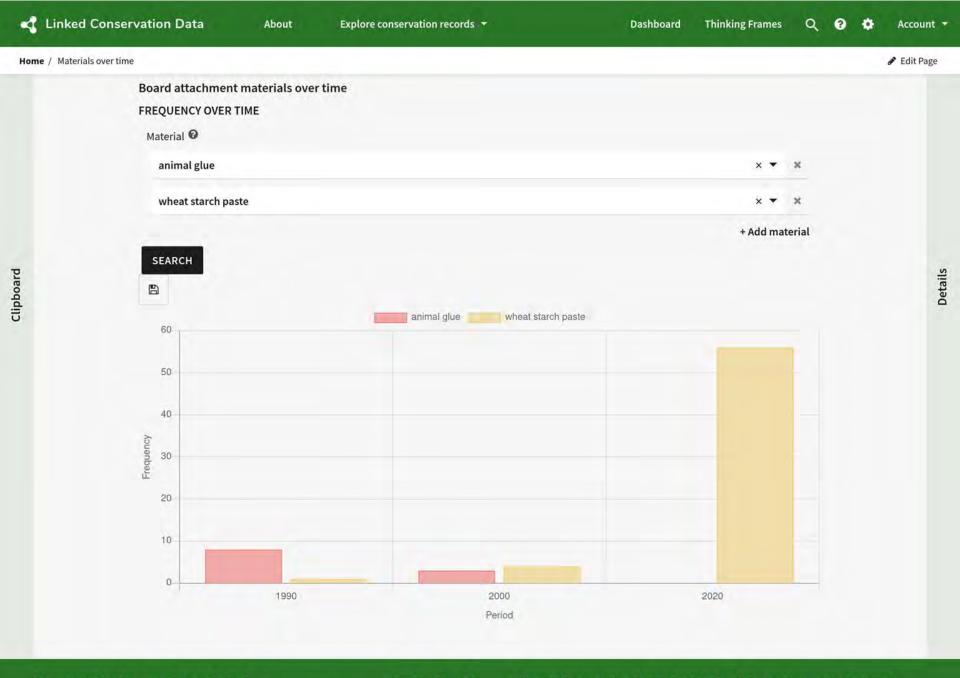
FREQUENCY OVER TIME



FULL DATA

Clipboard





O ResearchSpace

🖂 🌐 🕓

Linked Conservation Data is funded by the

Arts and Humanities Research Council

Terminology working group

- Anastasia Axaridou
- Ceri Binding
- Nicola Carboni
- Kirsten Dunne
- John Graybeal
- Ryan Lieu
- Jennifer Murray

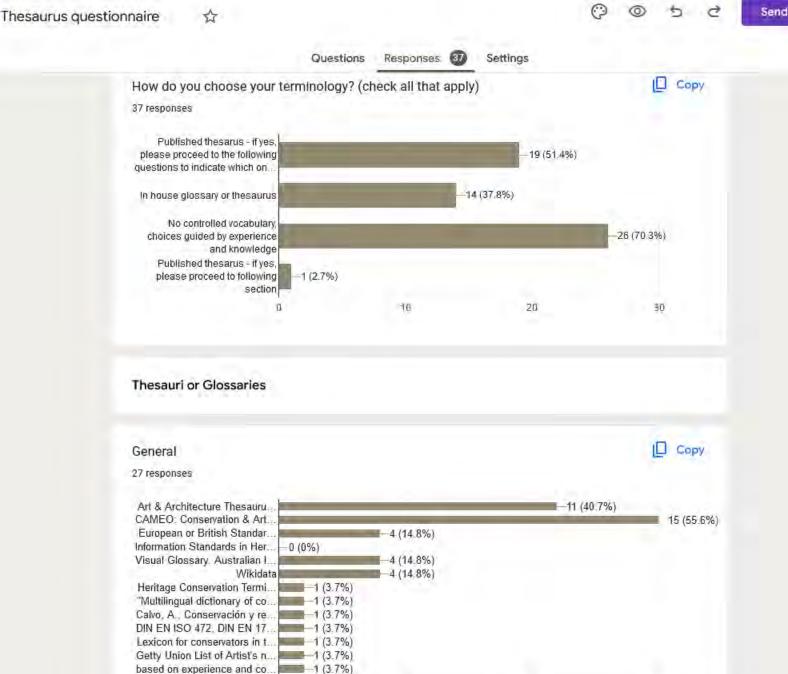
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- Eleni Tsouloucha
- Jon Ward
- Francesca Whymark
- Marcia Zeng
- Kristen St. John
- Athanasios Velios

Linked Conservation Data - Thesaurus and	Ð
Glossary Usage Questionnaire	Ð
Glossary Usage Questionnalle	Тт
Email *	•
Valid email address	8
This form is collecting email addresses. Change settings	
Name *	
Short-answer text	
Organization	
Short-answer text	
What is your current professional role? *	
Conservator	

=

Questions

- Type of participant role
- Practical software/systems setup
- Thesauri/glossaries and vocabularies used





Home R

Updates

Conservation controlled vocabularies

Index

A Glossary of Stained Glass Terms A library, media, and archival preservation glossary ABC of bookbinding AIC BPG Glossary of Terms AIC Lexicon Terms Art & Architecture Thesaurus (AAT) AV Artifact Atlas Binding Terms. Rare Books and Manuscripts Section: Controlled Vocabularies BM Object names Thesaurus Bookbinding and the Conservation of Books: A Dictionary of Descriptive Terminology. Roberts and Etherington. BS EN 15898:2011 - Conservation of cultural property. Main general terms and definitions BS EN 923:2015 Adhesives. Terms and definitions. CAMEO: Conservation & Art Materials Encyclopedia Online Compendium of Image Errors in Analogue Video Condition Reporting - Paintings. Part III: Glossary - Canadian Conservation Institute (CCI) Notes 10/11 Conservation and Restoration of Stained Glass - an owner's guide Conservation of the architectural surfaces in the tablinum of the House of the Bicentenary, Herculaneum : phase 1, examination, investigations, and condition assessment Descriptive Terminology for Works of Art on Paper Diccionario técnico Akal de conservación y restauración de bienes culturales Dictionary of Book and Paper Conservation Dictionary of Building Preservation EwaGlos - European Illustrated Glossary for Conservation Terms of Wall Painting and Architectonic Surfaces FIAF manual, D.16 Manifestation/Item Condition, Preservation and Restoration FISH Archaeological Objects Thesaurus FISH Archaeological Sciences Thesaurus FISH Building Materials Thesaurus FISH Components Thesaurus FISH Event Types Thesaurus FISH Evidence Thesaurus

FISH Thesaurus of Monument Types

FISH Event Types Thesaurus FISH Evidence Thesaurus FISH Thesaurus of Monument Types Glassworking, Ancient and Medieval, Terminology, technology and typology Glosario de términos relacionados con el deterioro de las piedras de construcción Glossary of Arabic terms for the conservation of cultural heritage Glossary of Architectural Terms - Trust for Architectural Easements Glossary of Basic Archival and Library Conservation Terms Glossary of Conservation Graphics Atlas Guide for Conducting a Visual Inspection of Concrete in Service Herein: Terminology Heritage Conservation Terminology Definition of terms from various sources IASA Cataloging Rules: Appendix C. Terms for describing the physical condition of sound recordings Illustrated Dictionary of Architectural Preservation: Restoration, Renovation, Rehabilitation, Reuse Illustrated Glossary by the York Glaziers Trust Illustrated glossary on stone deterioration patterns (English - French) Illustrated glossary on stone deterioration patterns (English - German) Illustrated Glossary: Mosaics in Situ Project Illustrated Glossary: Technician Training for the Maintenance of In Situ Mosaics Language of Bindings Thesaurus Les altérations visibles du béton : définitions et aide au diagnostic Looking at Paintings: A Guide to Technical Terms Nomenclature for museum cataloguing Painting Conservation - Glossary of Terms - Smithsonian Museum Conservation Institute Petra archaeological park weathering and deterioration definitions Stained Glass Terminology Thesaurus for Graphic Materials Visual Glossary - Australian Institute for the Conservation of Cultural Material

A Glossary of Stained Glass Terms

FISH Components Thesaurus

glass, URI production, images included, encoding - scripting, concept matching, How something is made

A library, media, and archival preservation glossary

DEPEW, J. N., & JONES, C. L. (1992). A library, media, and archival preservation glossary.

Alphabetical list, source cited at end of scope note, related terms in bold in scope note.

Preface: "The purpose of this glossary is to bring together many of the terms that relate to the conservation and preservation of archival, library and media center materials, many of which are scattered in articles, books, dictionaries, glossaries, and reports throughout the literature of preservation. The terms are drawn not only form the field of library and information science, but from the binding, paper, photographic and preservation reformatting literature, as well. The glossary also contains building, HVAC, insurance and statistical terms that are useful in

time-based media

Binding Terms. Rare Books and Manuscripts Section: Controlled Vocabularies

Controlled Vocabularies for Use in Rare Book and Special Collections Cataloging, developed and maintained by the Bibliographic Standards Committee of the Rare Books and Manuscripts Section (ACRL/ALA). These thesauri provide standardized vocabulary for retrieving special collections materials by form, genre, or by various physical characteristics that are typically of interest to researchers and special collections librarians, and for relating materials to individuals or corporate bodies.

Binding terms thesauri: option to search alphabetically or hierarchically. "The Alphabetical List contains unapproved terms and references. To determine whether a term is approved and to determine appropriate usage as described in the Scope Note the full term record must be consulted."

RBMS produce 6 thesauri: Binding Terms; Genre Terms; Paper Terms; Printing & Publishing Evidence; Provenance Evidence; Type Evidence. Examining here: Binding Terms; Genre Terms; Paper

books, techniques, materials alternative labels included, no scope notes, hierarchies included, structured data, encoding - scripting, URI production, concept matching

BM Object names Thesaurus

The thesaurus reflects the nature of the British Mus depending on the level of documentation available objects, techniques, materials, alternative labels in subject area within conservation

n internal reference tool. Some areas of terminology may be more specific than others,

ructured data, encoding - scripting, URI production, concept matching

Bookbinding and the Conservation of Books: A Dictionary of Descriptive Terminology. Roberts and Etherington.

ROBERTS, M., ETHERINGTON, D., & BROWN, M. R. (1982). Bookbinding and the conservation of books: a dictionary of descriptive terminology.

Entries arranged alphabetically. References at the end of each entry. Small number of images at end. Search facility. References via link.

Preface: * Although this dictionary is intended first and foremost for those actively involved in one or more aspects of the overall field of bookbinding and book conservation, including bookbinders, conservators of library and archival materials, and the like, it is perhaps no less intended for those working in related fields, such as bibliography and librarianship, where the many terms and expressions relating to the overall field may be less familiar and even more confusing... The definitions themselves, ..., were, whenever possible, drawn from the most authoritative sources available (as indicated by the number in parentheses at the end of a definition, which refers to the Sources and Bibliography section) and supplemented by the experience of the authors. Even though the bibliography and sources cited represent but a relatively small segment of the extensive corpus of literature in the field of conservation, we believe they provide a reasonably good sampling and may benefit the reader by offering an authoritative source for the terms and sometimes providing a source for further investigation. Definitions that do not cite a source are entirely the responsibility of the authors.

Where a term has more than one definition, each is numbered and arranged in its descending order of significance in relation to bookbinding." books, techniques, materials, treatment, references included, images included, alternative labels included, URI production, concept matching, build hierarchies, encoding - scripting, encoding - transcribing, semi-structured data

BS EN 15898:2011 - Conservation of cultural property. Main general terms and definitions

BSI BRITISH STANDARDS. (2011). Conservation of cultural property. Main general terms and definitions. London, BSI British Standards.

"This standard is part of a series of standards being developed by CEN/TC 346. It provides terms and their definitions for a set of general concents which are widely used by these working in

AV Artifact Atlas

time-based media

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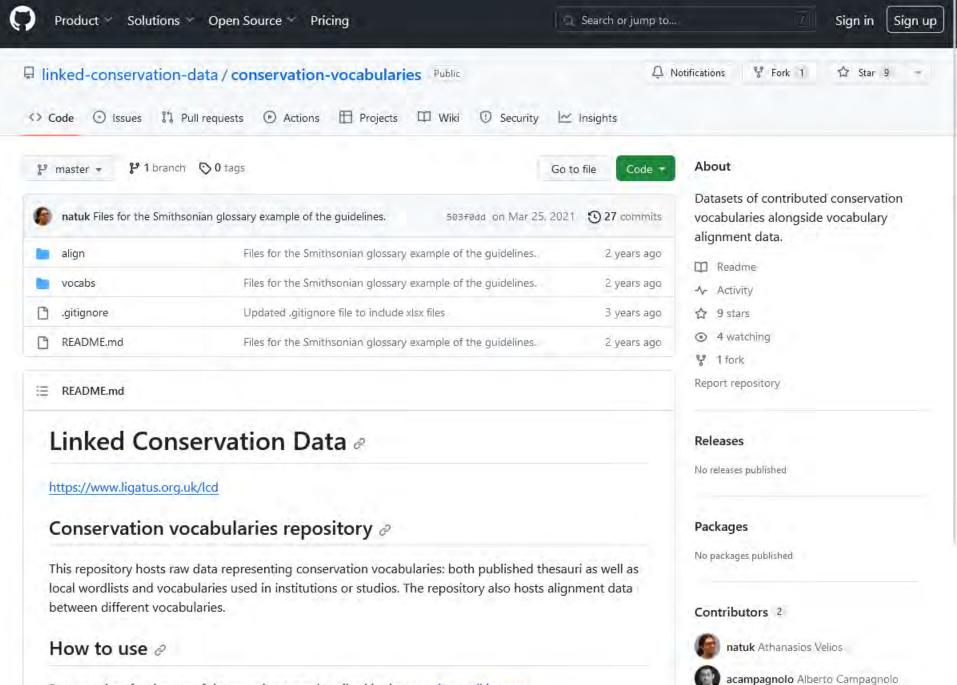
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Vocabulary questionnaire

- Help with:
 - Understand trends
 - Understand scope overlap
 - Prioritise/plan future work
 - Estimate costs and effort
 - Establish relationships with vocabulary maintainers

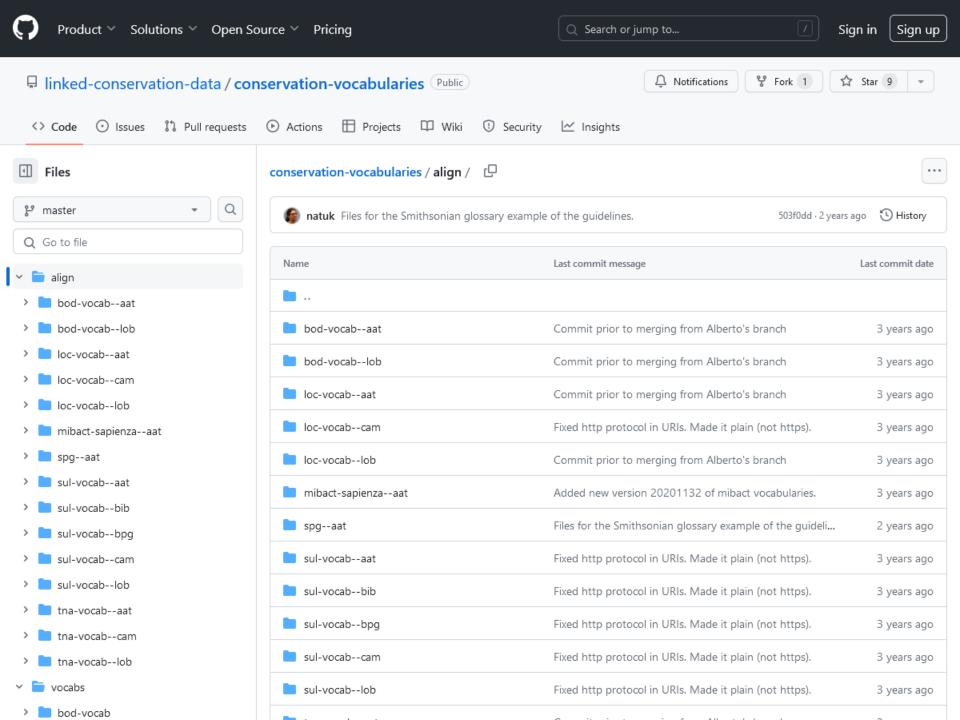
Vocabulary alignment infrastructure

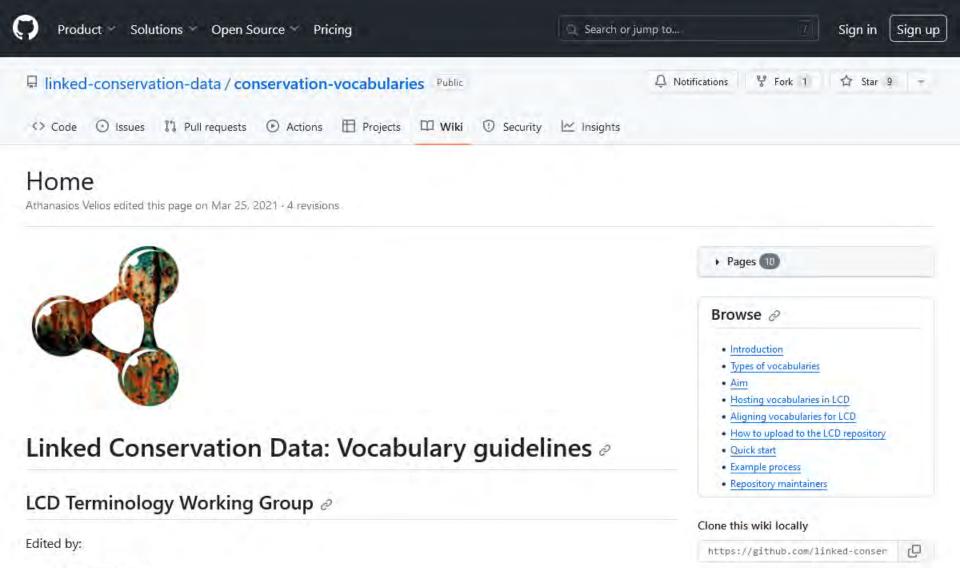
- Long-term sustainability
 - Low cost
 - Shared ownership
- Github repository and wiki



Best practices for the use of the repository are described in the repository wiki pages.

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Q Go to file	Name	Last commit message	Last commit date
vocabs	1		
bod-vocab	bod-vocab	Commit prior to merging from Alberto's branch	3 years ago
loc-vocab	loc-vocab	Corrected https and URIs for bod and loc vocabs - delet	3 years ago
nibact-sapienza spg	mibact-sapienza	Added new version 20201132 of mibact vocabularies.	3 years ago
spg	spg spg	Files for the Smithsonian glossary example of the guideli	2 years ago
tna-vocab	sul-vocab	Fixed http protocol in URIs. Made it plain (not https).	3 years ago
 .gitignore README.md 	tna-vocab	Commit prior to merging from Alberto's branch	3 years ago





- Athanasios Velios
- Kristen St. John

Contributions by:

- Anastasia Axaridou
- · Ceri Binding
- Nicola Carboni

- Nicola Carboni
- Kirsten Dunne
- John Graybeal
- Ryan Lieu
- Joseph Padfield
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and others.

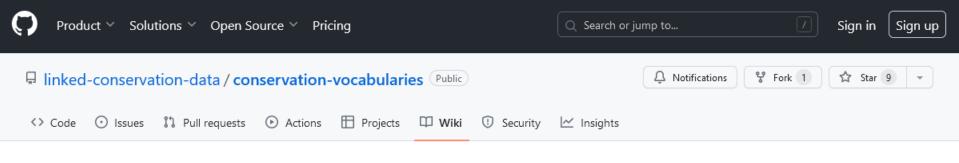


Linked Conservation Data is funded by the Arts and Humanities Research Council

Table of contents @

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- Hosting vocabularies in LCD
- Aligning vocabularies for LCD
- · How to upload to the LCD repository
- Quick start
- Example process
- Repository maintainers

API



Types of vocabularies

Athanasios Velios edited this page on Nov 15, 2020 · 2 revisions

Types of vocabularies @

Lists @

This section outlines the types of vocabularies considered in LCD. Different processes are required for each type in order to be shared effectively through the LCD repository. In sections <u>Hosting vocabularies</u> in LCD and <u>Aligning vocabularies</u> for LCD, the described processes refer to one or more of these types. They are listed here in order of increasing complexity of structure. The structure of each type can be produced by building upon the previous one. More complexity of a vocabulary does not necessarily mean better quality, but in general it leads to easier use of vocabulary data. These types are illustrated in a figure at the end of this section (figure 1). Lists are used for looking up terms when filling in conservation records. Glossaries are used when audiences looking up the vocabularies have different contextual understandings and therefore a word on its own does not necessarily especially when the sought term is not known. Thesauri provide extra ways of navigating terms in addition to alphabetical order, such as terms hierarchies and related terms ("see also"). For a thorough explanation please refer here.

Pages 10 Browse 2 Introduction Types of vocabularies Aim Hosting vocabularies in LCD Aligning vocabularies for LCD Aligning vocabularies for LCD How to upload to the LCD repository Quick start Example process Repository maintainers

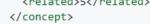
Clone this wiki locally

https://github.com/linked-conser

Q

This primarily includes plain lists of terms (word-lists), without definitions/descriptions, which are used as lookup lists or options in structured records, e.g. as database lookup fields or tick-boxes in survey forms. They do not always consist of terms, they could also include other sequences of symbols (for example, drawing patterns for marking condition on photographs of objects). These lists are often local in scope, i.e. they apply to institutions or conservation labs.

A word-list does not indicate whether some terms are more general than others. For example, the term 'oil' is more general than the term 'linseed oil' since linseed oil is a specific type of oil. In a word-list there is no way of indicating



Producing URIs @

Applies to 🖉

This process is required for all vocabularies which do not already provide URIs (see <u>Vocabularies expressed in SKOS</u>) for each of their concepts.

Ideally URIs should be created and maintained long-term as described in this section by the vocabulary maintainer. If the technicalities of creating the URIs make the process too resource intensive, then contact the LCD repository maintainers for suggestions.

Purpose 🖉

To provide unique identifiers and unambiguous reference points for concepts at a global scope.

How 🖉

LCD requires that a vocabulary concept has a single URI. Concepts that are updated in later versions of vocabularies should maintain the URIs from earlier versions. Updates to scope notes should not change the meaning of the concept but instead explain it in a better way. If the meaning does change, maintainers should consider creating new concepts while keeping the old ones. Using a different URI for a concept means that we are referring to a different concept. URIs used to refer to different versions of the **whole** vocabulary may change when the vocabulary is updated.

If the host organisation for the vocabulary has an existing practice for producing and maintaining URIs, then it is recommended to follow that practice. If there is no such practice then URIs should be produced as explained next.

URIs for vocabularies 🔗

The following patterns for URI production can be applied to any namespace. Vocabulary maintainers or host organisations can use any namespace they are committed to manage. Users can be redirected from that namespace to a location presenting information about the vocabulary if this is at a different place. In practice this means that the URIs point to one server and each one of them is then passed to another server at request. This is seamless to the end user. This redirection is beneficial because it allows another host organisation to take over the management of the vocabulary without affecting the original URIs which remain the same (persistent). The cost for this flexibility is the requirement for managing the redirection server.

</related>5</related>
</concept>

Producing URIs @

Applies to 🖉

This process is required for all vocabularie for each of their concepts.

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Purpose 2

To provide unique identifiers and unambig

How *∂*

LCD requires that a vocabulary concept has should maintain the URIs from earlier vers concept but instead explain it in a better v new concepts while keeping the old ones. different concept. URIs used to refer to different of is updated.

If the host organisation for the vocabulary recommended to follow that practice. If the

URIs for vocabularies 🔗

The following patterns for URI production organisations can use any namespace the namespace to a location presenting inforr means that the URIs point to one server a seamless to the end user. This redirection management of the vocabulary without at this flexibility is the requirement for mana A list of terms with unique labels and associated scope notes where necessary. This is broadly the case for the Painting Conservation Glossary from the Smithsonian Conservation Institute available <u>here</u>.

Encoding records *a*

Applies to 🖉

This process is required for vocabularies held in formats which cannot be processed easily by software to separate labels, scope notes and relationships, to find relevant terms, or to distinguish conflicting uses. Typically this includes vocabularies in print or typeset in PDF files. It may also include vocabularies in text which is partially or inconsistently tagged in wiki-type websites. It may also include vocabularies in text which rely on the textual narrative to communicate labels, scope notes and relationships. Another obstacle of formats which cannot be processed easily may be the fact that terms and concepts are dispersed across documents or resources and their grouping cannot be done automatically.

Purpose 🖉

1. To separate vocabulary information into labels, scope notes and relationships

2. To produce a consistent list of relevant concepts with their associated labels, scope notes and related concepts

How 🖉

Methods depend on the format. A simple but time-consuming method is transcribing text into a spreadsheet or database form by hand.

More complex methods may require <u>scraping websites</u> and automatically identifying tagged text of interest. The process involves writing a script to load webpages holding vocabulary information, extracting it and storing it in a structured document. An example of doing this on the Smithsonian Painting Conservation Glossary using a script can be found in section: <u>Encoding Python script</u>. In other cases it may require transforming tagged text to a new structure, for example using <u>XSLT</u> to simplify an elaborate HTML page. Tools such as <u>Tabula</u> can help with extracting records from a PDF file.

It is likely that the process of encoding is simplified when identifiers are used for concepts and possibly for labels. These identifiers would offer unambiguous references to concepts and labels at local level. Maintainers should consider the next section (Producing URIs) before establishing local identifiers during encoding.

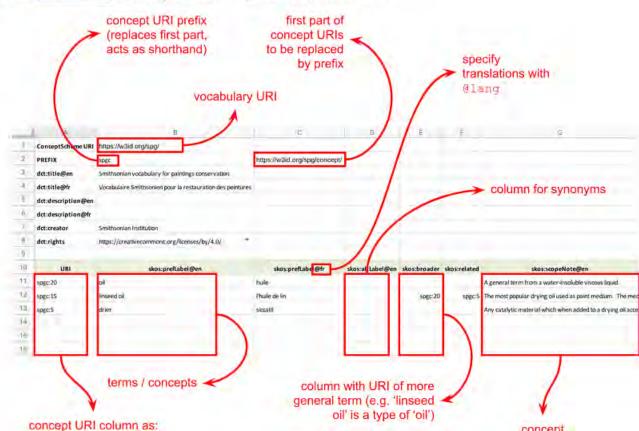
Output 🖉

Quick start @

Non-technical quick start @

To share your vocabulary on the LCD repository, follow these steps:

- 1. Ensure that you can share with an appropriate license as explained here.
- Ensure you have noted the meaning of each of your terms and that there are no ambiguities (for example do not use the same term to mean two different things).
- If you do not already have URIs for your terms, or if you are not sure what a URI is, contact the <u>repository</u> <u>maintainers</u> to help you produce them.
- 4. Use this template to enter your vocabulary data as explained here:



Introduction Types of vocabularies

Aim

Pages 10

- Hosting vocabularies in LCD
- Aligning vocabularies for LCD
- How to upload to the LCD repository
- Quick start
- Example process
- Repository maintainers

Clone this wiki locally

https://github.com/linked-conser

rQ

SKOS Play !	A Home	► Play!	Convert	@ Test	() About	Forun Corran
						e on Cirithue

SKOS Play is a free application to render and visualise thesaurus, taxonomies or controlled vocabularies expressed in SKOS.

With SKOS Play you can print Knowledge Organization Systems that use the SKOS data model in HTML or PDF documents, and visualize them in graphical representations.

SKOS Play can be used :

- to test and verify a vocabulary during the conception phase
- to exchange and communicate the vocabulary when validating it with domain experts
- to publish it when it is shared on the web.



SKOS Play also provides a way to convert Excel spreadsheets to SKOS files.

This makes it easy to produce SKOS files for taxonomies and authorities list.

The converter can even generate data in other RDF vocabularies.

Convert Excel to SKOS

Now you can also validate your SKOS data using the SKOS Testing Tool. The SKOS Testing Tool is a frontend for qSKOS by Christian Mader.

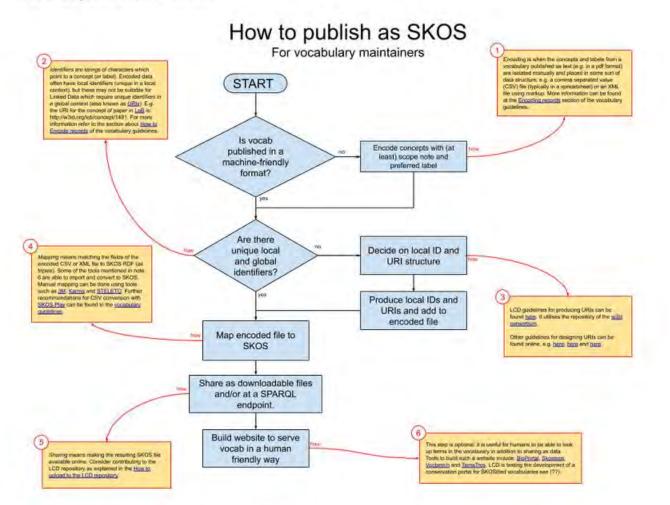
SKOS Testing Tool

Thesaurus, LCD can submit new terms to the AAT on behalf of a vocabulary maintainer.

Flowcharts @

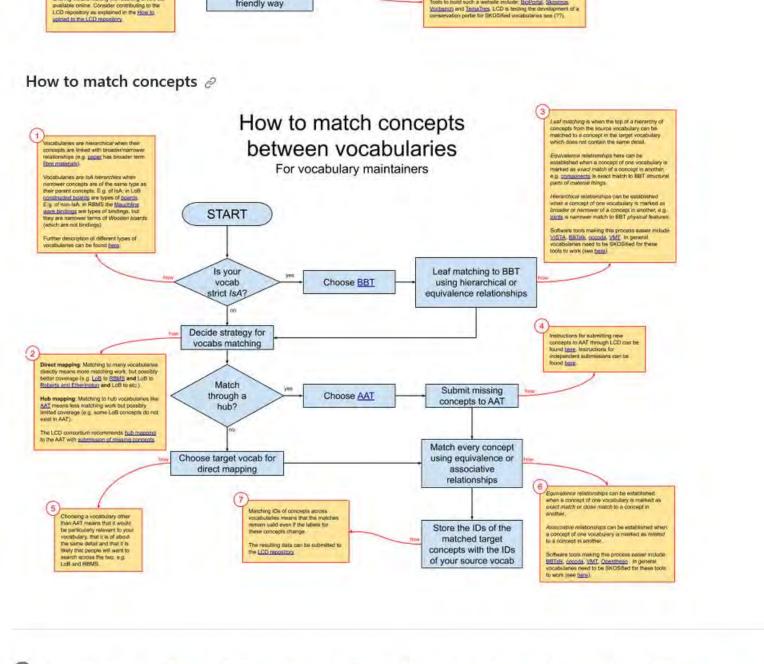
This document is based on work done by the LCD consortium during 2019. Please consult these flowcharts for easy reference.

How to publish as SKOS @



How to match concepts @





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- 4 L	inked Conservation Data	About Explore conservation	records -	Dashboard Thinking Frames Q 😧 🔅	Account -		
Home /	Conservation vocabularies				🖋 Edit Page		
	paper				_		
	Term	Scope note	Vocabulary	Matched terms			
Clipboard	paperboard	Board made entirely of paper by whatever means (laminated, pulp, etc.). The term can be used where the boards of a book are completely covered and the means of their manufacture cannot be identified. but where it is clear that they are made of paper. Board made entirely of paper board (http://vocab.getty.edu/aat/) • <u>paper board (materials)</u> (http://w3id.org/lob/)					
	paper		http://w3id.org/bod-vocab/	 <u>paper</u> (http://vocab.getty.edu/aat/) 	<u>v</u>		
	<u>Paper</u>	Refers generally to all types of thin matted or felted sheets or webs of fiber formed and dried on a fine screen from a pulpy water suspension. The fibers may be animal, such as hair, silk or wool, or mineral, such as asbestos, or synthetic. However most paper is made from cellulosic plant fiber, such as from wood pulp, grass, cotton, linen, and straw.	<u>http://w3id.org/loc-vocab/</u>	• <u>paper</u> (http://vocab.getty.edu/aat/)	Details		
	<u>paper</u>	Refers generally to all types of thin matted or felted sheets or webs of fiber formed and dried on a fine screen from a pulpy water suspension. The fibers may be animal, such as hair, silk or wool, or mineral, such as asbestos, or synthetic. However most paper is made from cellulosic plant fiber, such as from wood pulp, grass, cotton, linen, and straw.	<u>http://w3id.org/sul-vocab/</u>	• <u>paper</u> (http://vocab.getty.edu/aat/)			

Some points to discuss:

Long term sustainability of resources for small communities Asking domain experts to engage with terminology at a technical level

Thank you

Engagement with the NKOS community during and after the project was extremely helpful!

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