



# Achieving Better Content: Leading Metadata to Higher Standards

**Tamar Ganor | Content Product Manager**  
**Christine Stohn | Discovery Product Management**

# Agenda



The Content Mountain – a story of growth

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Growth challenges

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Keeping up with the content

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Data improvements in CDI to enhance discoverability and user experience

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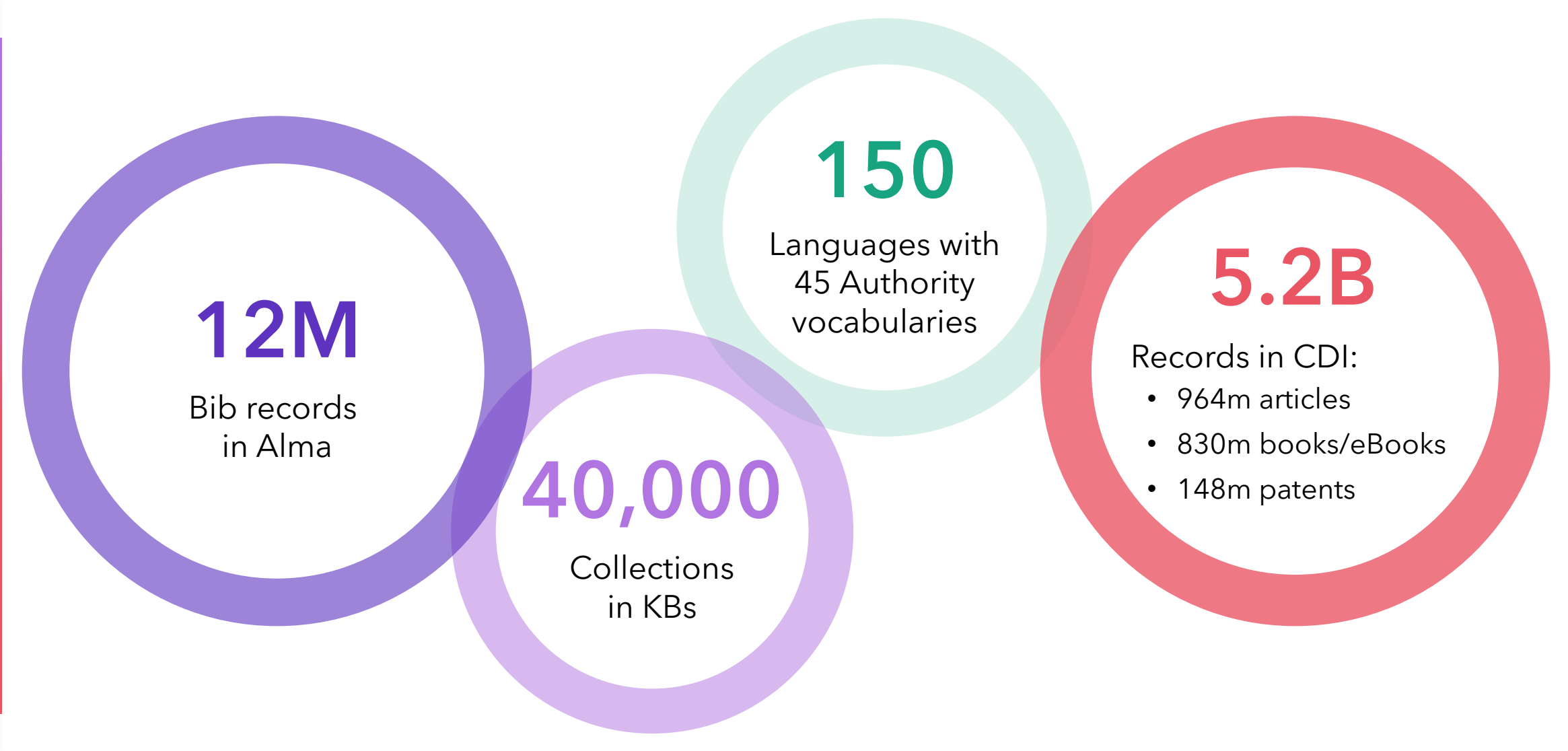
Data flows



# The Content Mountain

Depth, Breadth and Perspectives

# The Content Mountain



# Let's talk metadata



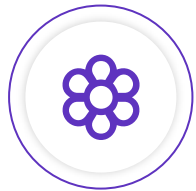
## Highly Activated

44 collections with over 1,000 activations



## Local Representations

1,667 local collections in CDI



## Great Variety

8,408 collections with fewer than 10 activations



## Content Providers

Over 5,000 in CDI



## Open Access

333M OA items in CDI



## Authority Vocabularies

57.1M Authority records in Alma CZ

# Growth Originated Challenges

- Staying current
- Metadata quality





# The Way to Data Excellence

# Data Excellence



**Capacity, Efficiency,  
Speed and Quality**



## Quicker Updates

Increase update frequency of Alma



## Better Quality

Improve and expand MARC metadata in Alma CZ



## Improved Discoverability

Enhance linking and rights for CDI users

**Transparent communication and collaboration with community and providers**



# Data Excellence: Updates Challenge



## Daily Ingest

- Reduce turnaround time to daily updates
- 20 million portfolios affected
- ~165,000 activations
- By end of 2023:  
70% of automated CZ portfolios will be updated daily

Create automation, improve ingest process,  
clean up collections

# Data Excellence: Quality Challenge

Better metadata through various sources

- 1 Selecting highly activated eBook collections:
  - So far over 153K Bib records enriched
  - Planning to enrich ~200K Bib records by end of 2023
  - Over 20,500 activations

# Data Excellence: Quality Challenge

## 2 Cooperating with providers

- Reviewing available metadata
- Increase capacity of Provider Relations team

## 3 Alternative sources enrichment

- LoC print records
- Project Gutenberg
- Future prospect - AI



# Data Improvements in CDI to Enhance Discoverability and User Experience

# Document Attributes (Secondary Resource Types)

## Definition



- **Attributes** associated with a record to provide more information
- Does not replace but **adds value to** the existing 'primary' resource type

## Purpose



- **Display additional information** about the record/item (display flag)
- Used in search and as filters (facets)

## Priority 2023



- *Review article*
- *Primary source*
- *Preprint*
- *Retracted publication*
- *Retraction notice*
- *Withdrawn publication*
- *Withdrawal notice/ item withdrawal*

1



ARTICLE

## Music Therapy for Children With Autistic Spectrum Disorder and/or Other Neurodevelopmental Disorders: A Systematic Review

Mayer-Benarous, Hanna ; Benarous, Xavier ; Vonthron, François ; Cohen, David  
Frontiers in psychiatry, 2021, Vol.12, p.643234-643234

PEER REVIEWED

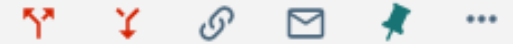
OPEN ACCESS

REVIEW ARTICLE



Get PDF >

Available Online >



1



ARTICLE

## Structural Evolution and Onset of the Density Wave Transition in the CDW Superconductor $\text{LaPt}_{2}\text{Si}_{2}$ Clarified with Synchrotron XRD

Nocerino, Elisabetta ; Lorenzo, Irene San ; Papadopulos, Konstantinos ; Medarde, Marisa ; Lyu, Jike ; Klein, Yannick Maximilian ; Minelli, Arianna ; Hossain, Zakir ; Thamizhavel, Arumugam ; Lefmann, Kim ; Ivashko, Oleh ; von Zimmermann, Martin ; Sassa, Yasmine ; Månsson, Martin  
2022; 2022

PEER REVIEWED

OPEN ACCESS

PREPRINT



Available Online >



A 25-year experience with Carpentier-Edwards Per

Library Catalog and CDI

Search everything



### Tweak your results

Expand My Results

Search in Full Text

Sort by Relevance

Availability

Resource Type

Articles (8)

Newsletter Articles (1)

Retracted Publication (1)

Retraction Notice (1)

Newspapers search

Subject

0 selected 1-9 of 9 Results Personalize

1



ARTICLE

#### A 25-year experience with Carpentier-Edwards Perimount in the mitral position

Ayegnon, Kouakou Gregoire ; Aupart, Michel ; Bourguignon, Thierry ; Mirza, Alain ; May, Marc-Antoine ; Marchand, Michel

Asian cardiovascular & thoracic annals, 2011, Vol.19 (1), p.14-19

“ Data of 401 patients who underwent mitral valve replacement with the Carpentier-Edwards Perimount bioprosthesis between 1984 and 2009 were evaluated... ”

RETRACTED PUBLICATION

Available Online

2



ARTICLE

#### Retraction. "A 25-year experience with Carpentier-Edwards Perimount in the mitral position"

Asian cardiovascular & thoracic annals, 2011, Vol.19 (3-4), p.292-292

RETRACTION NOTICE

95 results

Sorted by **relevance** ▾

⚠ This publication has been retracted/withdrawn  
Notice of retraction/withdrawal









1  **Correction to 'Imitation of novel conspecific and human speech sounds in the killer whale (*Orcinus orca*...**  
by Abramson, J. Z.; Hernández-Lloreda, M. V.; García, L. ; More...


Peer-Reviewed   
Open Access 



 Quick Look Proceedings of the Royal Society. B, Biological sciences, 02/2018, Volume 285, Issue 1873



Journal Article  PDF  Full Text Online

2  **Comments on "Killer whale (*Orcinus orca*) behavioral audiograms" [J. Acoust. Soc...**  
by Heffner, Henry E.; Heffner, Rickye S.

Peer-Reviewed   
Primary Source   
Preprint   
Review Article   
Open Access 

 Quick Look Branstetter and his colleagues present the audiograms of eight killer whales and provide a comprehensive review of previous killer whale audiograms. In their...

Journal Article  PDF  Full Text Online

Citations  Cited by 



## Documentation is available on the Knowledge Center

[https://knowledge.exlibrisgroup.com/Primo/Content Corner/Central Discovery Index/Documentation and Training/Documentation and Training \(English\)/CDI - The Central Discovery Index/CDI Document Attributes](https://knowledge.exlibrisgroup.com/Primo/Content Corner/Central Discovery Index/Documentation and Training/Documentation and Training (English)/CDI - The Central Discovery Index/CDI Document Attributes)



# OA Handling for Hybrid (and other) OA Articles



## Handling of hybrid Open Access articles in CDI

- DBID level collections can be activated for some publishers (where we have reliable flags on article level), including SAGE, Emerald, OUP, IEEE, Taylor & Francis, Springer (more will be added)



## **NEW:** we are indexing Unpaywall

- Can be activated as DBID level database
- Can be used as Link in Record resource or/and in combination with the API
- **Available in November**

# Other CDI Data Enhancements in 2023

- **New resource types** (for Primo): magazines, magazine articles, questionnaire  
<add release date and affected collections>
- Improve consistency of **language** and **publication date** fields between Index and display
- Better identification of **book reviews** by a set of rules



# Subject Heading Normalization Project



## Three Fields

- **Subject:** populated from controlled vocabulary, deduplicated and normalized
- **Keyword:** all subjects/keywords that cannot be mapped to the subject field
- **LATER Discipline:** all discipline level subjects, according to a controlled list



## Iteration 1

- Subject and keyword field
- LCSH, MeSH, and some additions from PQ thesauri
- Optional: opt-in by activating it - **November** (Summon), **February** (Primo)
- Test option (for the facets ) available for Primo customers **&searchCDI=normalizedSubjects**

Subject ^ Old

Facet

- Education (129)
- Music (121)
- Philosophy Of Mind (83)
- Compilation Of References (8)
- Functionalism (80)
- Globalization And Language Teaching
- Publish-Or-Perish Syndrome
- American Philosophy In The Twentieth Century
- Cognitive Neuroscience And The Theory And Practice Of Social And Political Inquiry
- Computational Functionalism
- Consciousness (74)
- Developmental Psychology: Philosophy, Concepts,

Subject ^ New

- Education (908)
- Families (612)
- Gender Identity (574)
- Rites And Ceremonies (568)
- Sex Role (563)
- Social Problems (536)
- Holidays (513)
- Interpersonal Relations (513)
- Fiction (455)
- Employment (436)
- Folklore (432)
- Manners And Customs (417)
- Recreation (415)
- Music (372)

## &searchCDI=normalizedSubjects

- Test facets and subject field in full record
- No key word field is displayed with the test option

## Full view

- DJing secondary school > Old
- Edexcel Music Resources >
- Education, Secondary >
- enabling students music >
- GCSE Music >
- Great Britain >
- Instruction and study >
- KS3 Music >
- master level music >
- MCing secondary school >
- Music >
- Music & Education >
- OCR Music Resources >
- PGCE Music >
- PGCE Music books >
- Secondary Education >
- teaching music >
- Turntablism >

- Great Britain > New
- Music >
- Instruction and study >
- Turntablism >
- Education, Secondary >

All other subjects are going into the keyword field (visible in the PNx)

# Another Important Data Project



## Author identification

- Enrich CDI with **ORCIDs** and connect to author names where available, to identify authors better



## In future

- Use additional sources for author identification

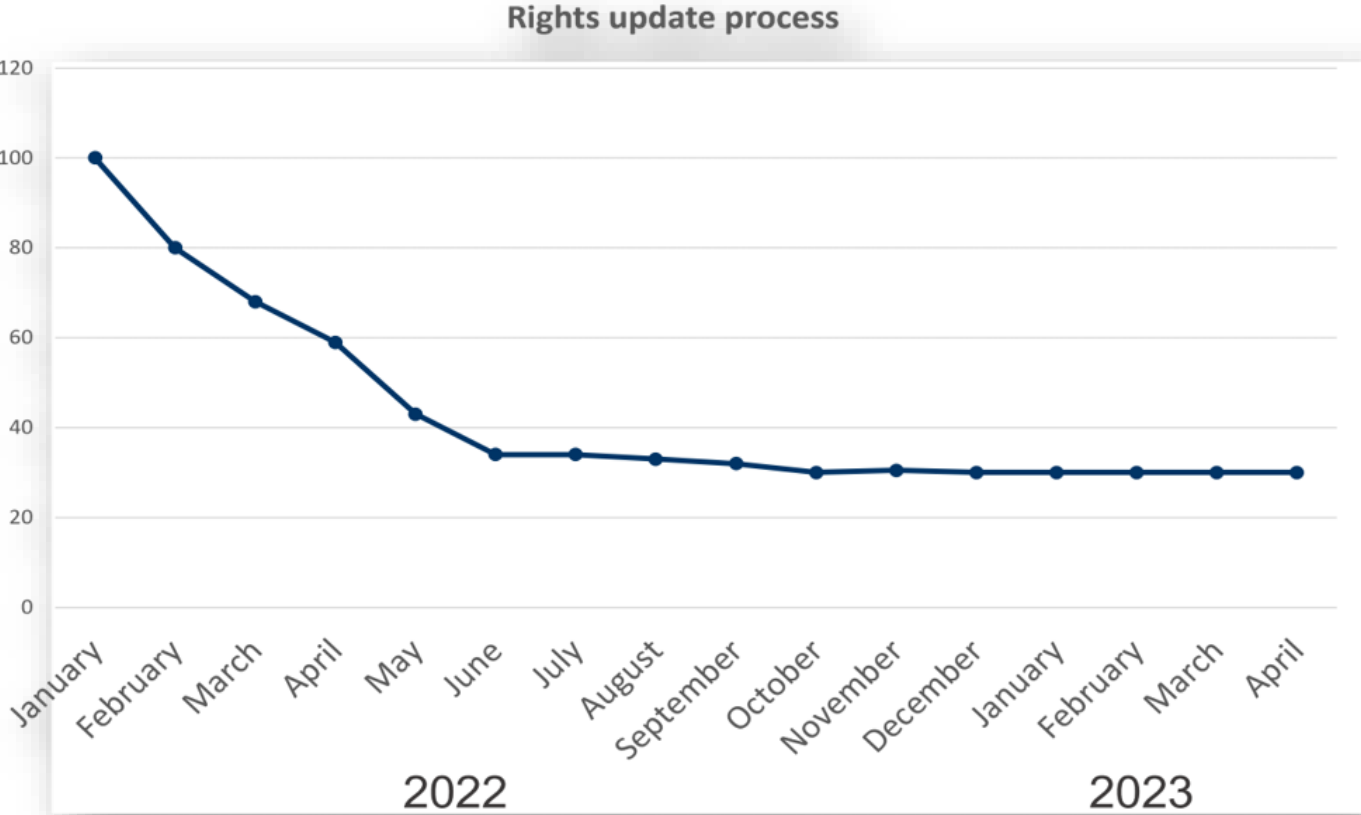
Both the subject and the author project help us to move towards a Linked Data Network in CDI



# Data Excellence for Rights and Access

# Quicker Availability with Faster Rights Processing

From 100 hours to an average of 30 hours to process activation to discovery



# Fulltext Access Enhanced: Linking Improvements

○ Increased use of document ID for linking accuracy

○ Focus on **Quicklinks**

- Now with 37 supported providers
- Over **16,304** collections with **1.56 billion** records
- Linking success rates 99%
- Over 400 institutions currently active or testing
- More than 1.3m clicks in March 2023

**More providers coming in 2023**

◀ Quicklinks in Primo and Primo VE | Search Configurations ▶ Table of contents  
No headers

Quicklinks enables users to go directly to the full text with one click. For more information about Quicklinks, see the following articles:

- Quicklinks in Summon
- Quicklinks in Primo and Primo VE

The following table lists which providers currently support Quicklinks and is updated as providers are added or changed.

Provider	Content	Type of Quicklink (PDF/HTML)	Last Updated
ACM Digital Library	All	PDF	
Elsevier	All	HTML	
ProQuest	All Content excluding eBooks on the ProQuest Platform: <a href="https://www.proquest.com">https://www.proquest.com</a>	HTML (in most cases a link to download the PDF full text is included with the article)	
SAGE Publications	Journals under <a href="https://journals.sagepub.com">https://journals.sagepub.com</a>	PDF, HTML	
Springer Nature	Journals and Books under <a href="https://link.springer.com">https://link.springer.com</a>	PDF, HTML	
Wiley-Blackwell	Journals and Books under <a href="https://onlinelibrary.wiley.com">https://onlinelibrary.wiley.com</a>	PDF, HTML	
Bloome	Journals Content under <a href="https://bloome.org">https://bloome.org</a>	PDF	
IOP Publishing	All	PDF	
National Library of Medicine	Content which is part of PubMed Central collection under <a href="https://www.ncbi.nlm.nih.gov">https://www.ncbi.nlm.nih.gov</a>	PDF, HTML	
New England Journal of Medicine	Content under <a href="https://www.nejm.org">https://www.nejm.org</a>	PDF, HTML	
Emerald	Journals and Books under <a href="https://www.emerald.com/">https://www.emerald.com/</a>	PDF, HTML	
Credo Reference	Content under <a href="https://search.credoreference.com/">https://search.credoreference.com/</a>	PDF, HTML	March 27, 2023 - Added PDF.
Thieme	All journal content besides conference proceedings under <a href="https://www.thieme-connect.de/products/journals">https://www.thieme-connect.de/products/journals</a>	PDF, HTML	
IEEE	Content under <a href="https://ieeexplore.ieee.org">https://ieeexplore.ieee.org</a>	HTML	
Mary Ann Liebert, Inc.	Journals under <a href="https://www.liebertpub.com/">https://www.liebertpub.com/</a>	PDF, HTML	
SPIE	Content under <a href="https://www.spiedigitallibrary.org/">https://www.spiedigitallibrary.org/</a>	PDF, HTML	
University of Chicago Press		PDF, HTML	
Royal Society Publications	Content under <a href="https://royalsocietypublishing.org">https://royalsocietypublishing.org</a>	PDF, HTML	





# The Data Flow

# Where is the Data Coming from... and Where Does it Go?



Providers



Through the  
Products



End-User  
Functionality



## In Summary

- **Data Excellence** (DX) is the main initiative for Ex Libris to achieve better content
- We are leading metadata to higher standards using **internal and external solutions**
- Pushing selective efforts to improve **quality**, get quicker **updates** and enhance **availability**
- **Community + Providers + Ex Libris**

Please join the Q3 content webinar, for a discussion with Sage and Oxford representatives.

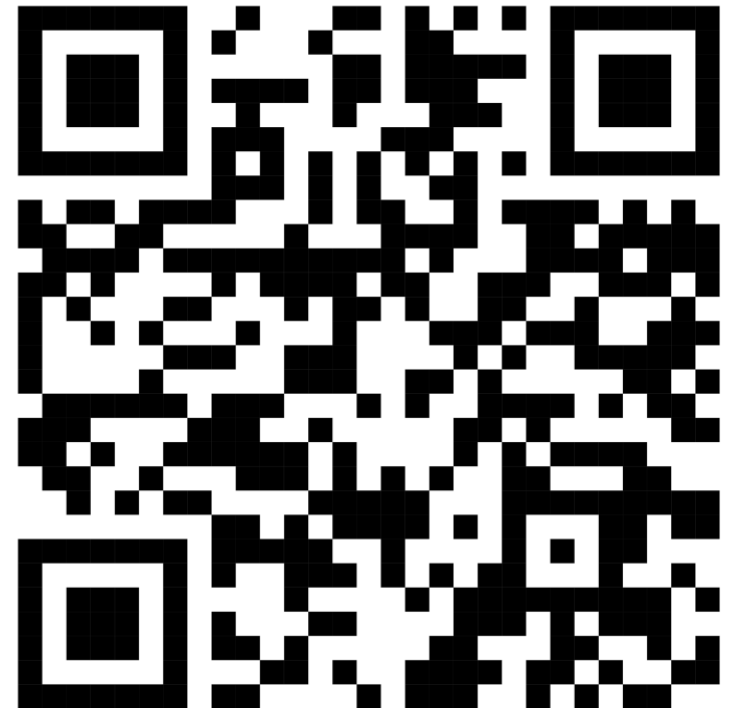
*Metadata at its Origin -*

*Publishers Talk about Metadata*

Thursday, September 28<sup>th</sup>

15:00 GMT

\*Feel free to send your questions by September 22nd



# Not yet registered for the content mailing list??



## Don't miss out!!



# Thank You!

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