

BIC

Breakfasts 2017

**Welcome to June's BIC Breakfast:
Metadata for Journals Discovery -
What Publishers Need to Know**

#BICBreakfast

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BIC Breakfast?**

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Digital Supply Chain

Libraries

Metadata

Physical Supply Chain

Training, Events & Communications



BOOK INDUSTRY COMMUNICATION LTD

Regular BIC Events

BIC Breakfasts (monthly)

New Trends in Publishing Seminar (5th September 2017)

BIC Networking Events
including our annual BIC Bash (November 2017)

Building a Better Business Seminar at LBF
(12th April 2018)



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New website coming soon

Extensive Training Programme

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Your Partner in Discovery

BIC Breakfast
Tuesday 27th June 2017
Jack Tipping – Bowker UK

Bowker Mission



To connect readers with books, and provide critical insights in to readership worldwide

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140+ years serving the global book publishing community

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Book Sellers

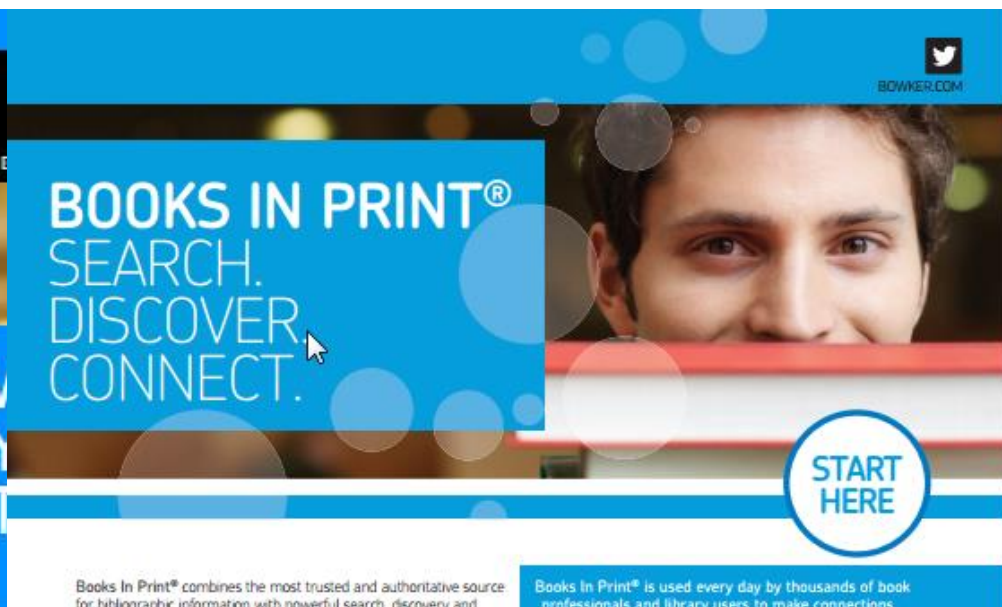
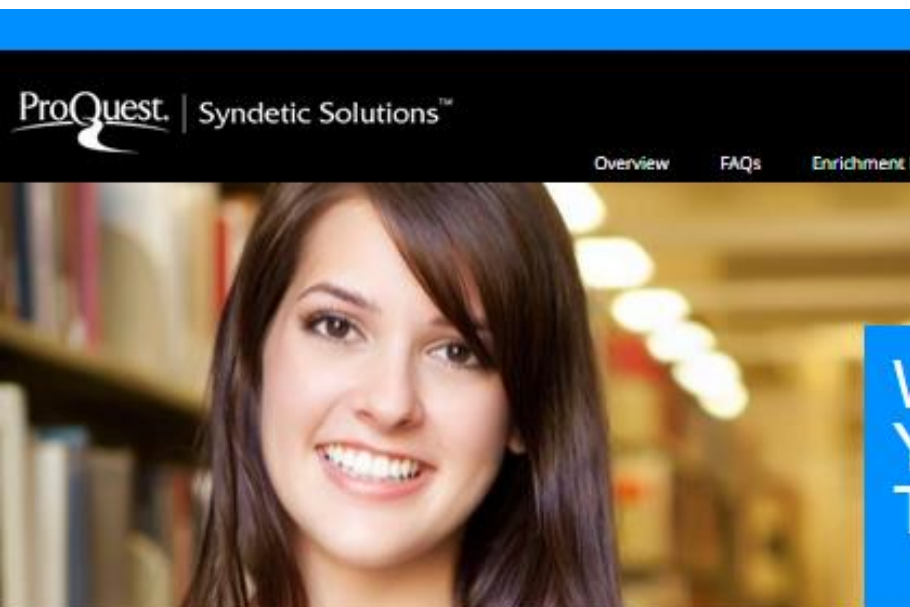
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- Provide metadata to retailers, libraries, and schools
- Communicate price and status updates in a timely fashion to multiple customers
- Display enhanced content such as cover images and marketing descriptions for readers and buyers
- Increase awareness of your titles

Powerful Metadata



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These Vendor Partners support integration of Syndetics display content within their OPAC or discovery products.

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NEWEST FEATURES INCLUDE:

Browse will assist library users in finding books based on authors, genres, or topics that interest them. Every query will return suggested titles, eliminating dead-end searches.

Character Search allows the user to search for a character from their favorite books and view search results for all titles the character appears in, and includes a brief synopsis of the character.

Find Similar allows users to see suggested similar titles based on search criteria, or they can search by specific tags found in Syndetics Book Profiles.

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- Includes a mobile app and over 40 professional review sources



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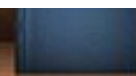
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Dir: +44 (0)20 7832 1773
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Making Journals Visible using Structured Metadata Feeds

*BIC Breakfast on Metadata for Journals
Discovery, 27th June 2017*

Tim Devenport
Consultant on Serials Standards, EDItEUR

tim@editeur.org
ISNI: 0000 0004 5913 7837

Introductions

- Magaly Bascones - Jisc & KBART
- Henning Schoenenberger - Springer Nature
- Tim Devenport - EDItEUR & ISNI-IA
- EDItEUR:
 - International standards agency, books & serials
 - Most well-known product, ONIX Books format
 - (Much) more at www.editeur.org

What do we mean by “journals”?

- In this context, scholarly/educational/academic periodicals
- Frequently sold into university or research libraries
- For use of students/researchers or other patrons
- Expensive resources, with paywall barriers and sign-on authentication procedures



Analysis of degraded papers by infrared and Raman spectroscopy for forensic purposes

J. Zięba-Palus^a,  , A. Weselucha-Birczyńska^b, B. Trzcińska^a, R. Kowalski^a, P. Moskal^b

 **Show more**

<https://doi.org/10.1016/j.molstruc.2016.12.012>

Get rights and content

Highlights

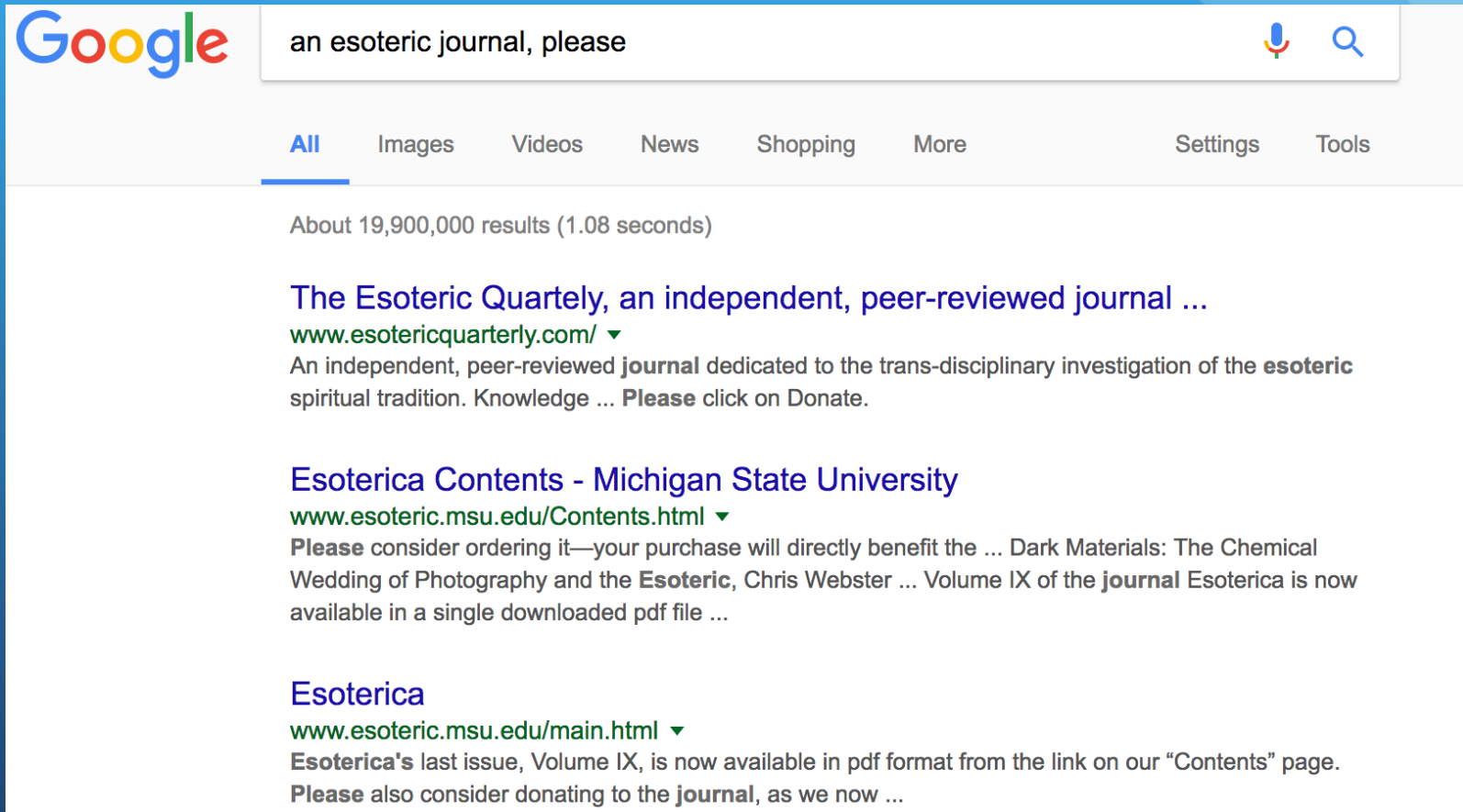
- Five types of white office paper samples were studied by infrared and Raman spectroscopy.
- Samples were artificially aged in climatic chamber for various periods of time.
- The 2D correlation method was applied in analysis of spectra of different aged papers.
- The pattern that appears in the 2D synchronous and asynchronous maps allows us to distinguish tested papers.

What are we trying to achieve?

- Making sure that library patrons can easily FIND the journals (articles) they want
- Smoothing the path so that their route to the underlying resource is as simple and economical as possible
- Or if it's unavailable, registering a clear turn-away count to encourage library action
- Encouraging the purchase and retention of journals

Of course we could just rely on search

...



The screenshot shows a Google search interface. The search bar contains the text "an esoteric journal, please". Below the search bar, the "All" tab is selected. The search results show "About 19,900,000 results (1.08 seconds)". The first result is titled "The Esoteric Quartely, an independent, peer-reviewed journal ..." with a green URL "www.esotericquarterly.com/". The second result is titled "Esoterica Contents - Michigan State University" with a green URL "www.esoteric.msu.edu/Contents.html". The third result is titled "Esoterica" with a green URL "www.esoteric.msu.edu/main.html".

Google

an esoteric journal, please

All Images Videos News Shopping More Settings Tools

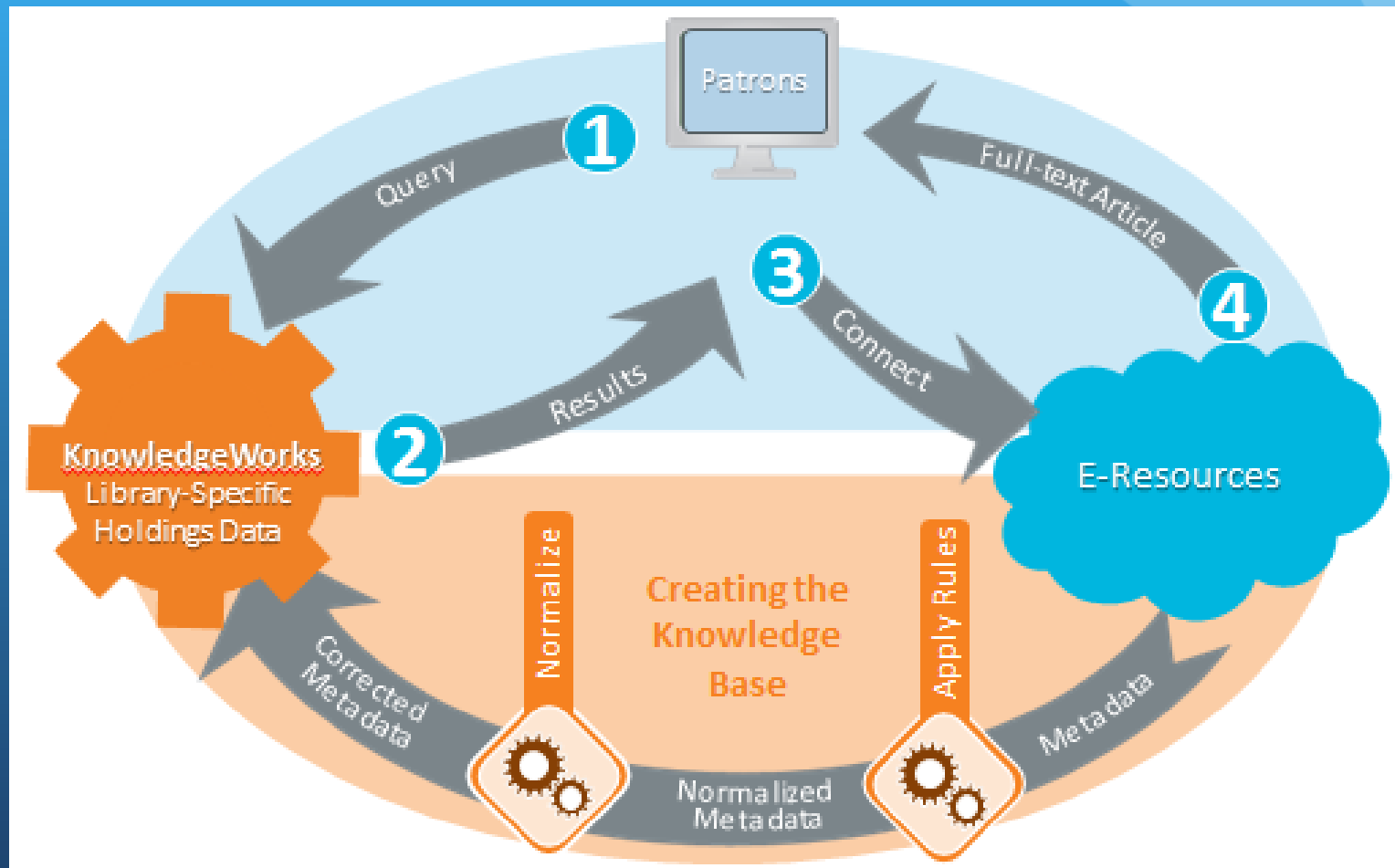
About 19,900,000 results (1.08 seconds)

The Esoteric Quartely, an independent, peer-reviewed journal ...
www.esotericquarterly.com/ ▼
An independent, peer-reviewed **journal** dedicated to the trans-disciplinary investigation of the **esoteric** spiritual tradition. Knowledge ... **Please** click on Donate.

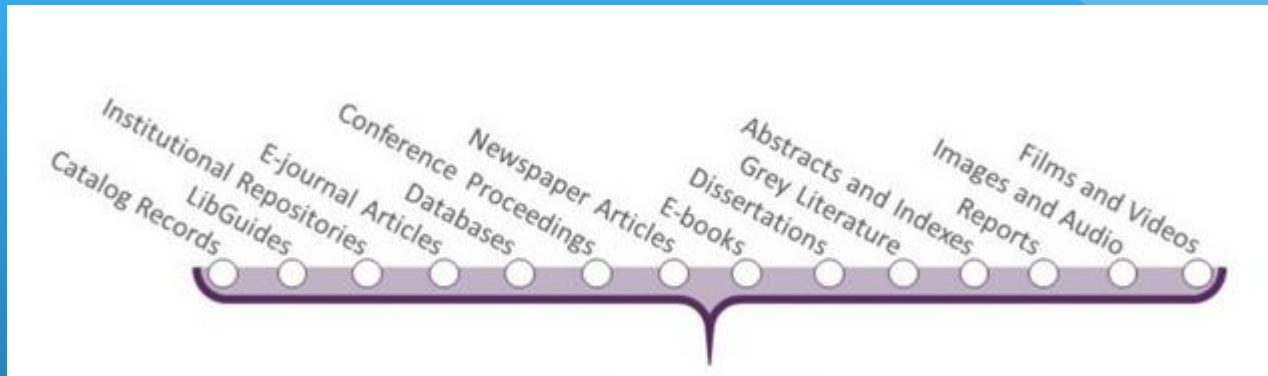
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Please also consider donating to the **journal**, as we now ...

Knowledge life cycle



Discovery

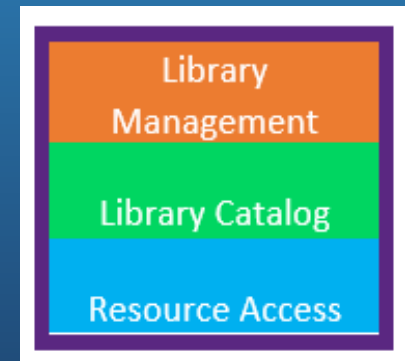


Content Types

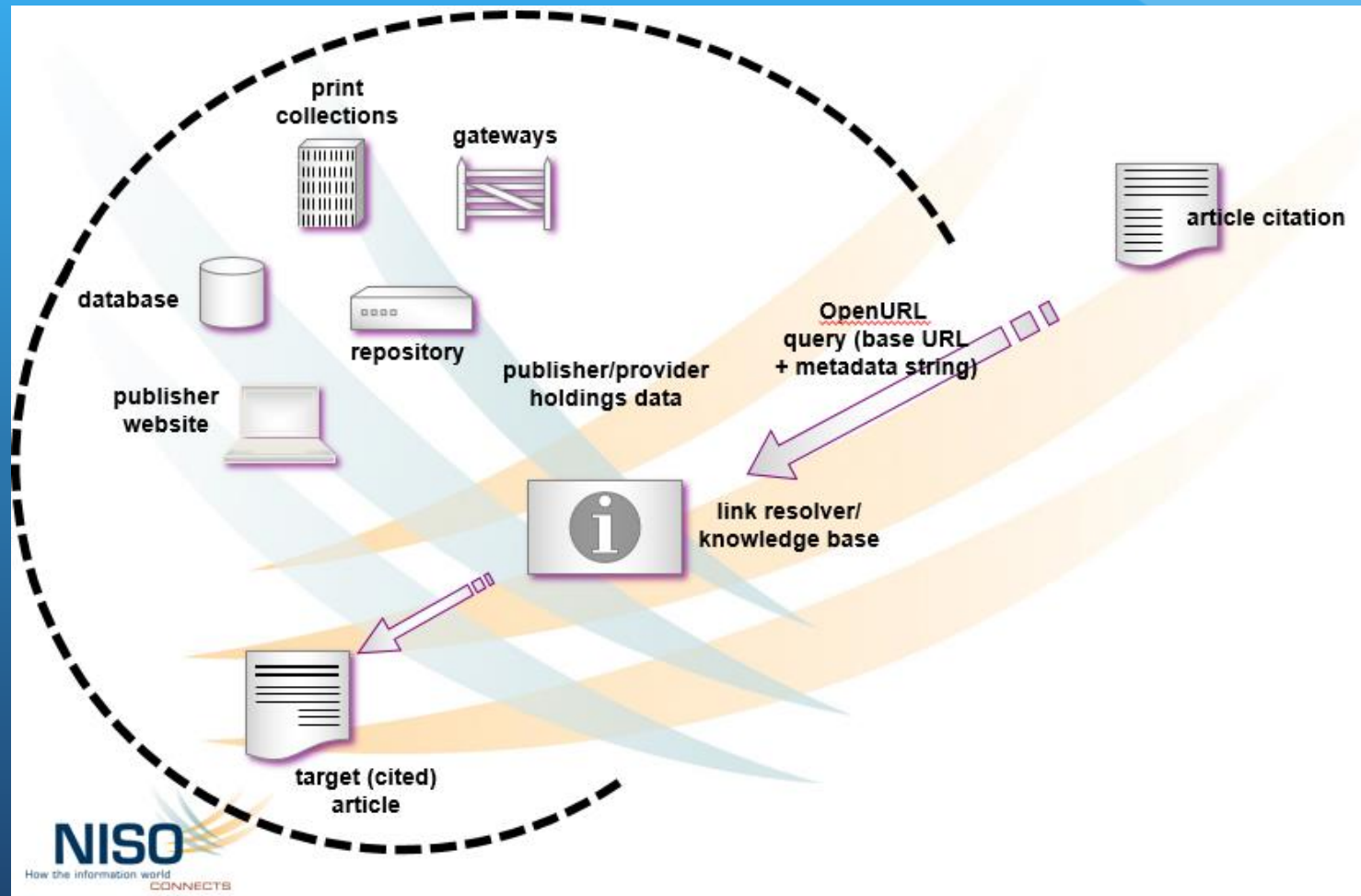


Unified Index

Back-End Systems



OpenURL basics (from NISO)



Where links in the chain can break

- Wrong data
 - Publisher gives wrong metadata for title to the KB
 - Link resolver uses bad metadata to make link
 - Link does not resolve to correct target
 - Dead end ☹️
- Outdated data
 - Publisher said it has a particular issue
 - Link resolver links to an article from it
 - Issue has been removed
 - Dead end ☹️
 - Or, provider doesn't notify that issue is now live
 - So no traffic from link resolvers to that issue!

ODI - the Open Discovery Initiative



- A recommended practice (RP-19-2014) developed under the auspices of NISO, international, not limited to journals
- “ ... to define best practices for the new generation of library discovery services ...”
- Comprehensive survey of issues to address, metadata elements to exchange, formats to use

Wot, no metadata?!!

Table 1: Core metadata elements to be provided by content providers

Field Name	Definitions
Title	The main title of the item.
Authors	The author(s) of the item. Individual authors should be listed in lastname, firstname order.
Publisher Name	The name of the publisher of the item.
Volume	Volume number of the resource, where applicable.
Issue	Issue number of the resource, where applicable.
Page(s)	Page numbers of the resource, where applicable.
Date/Date Range	The date of publication. For a serial run, coverage dates included for the serial.
Item Identifier	One or more standard identifiers for the print or online version of the item (e.g., ISSN, OCLC number, ISBN, DOI, etc.). The identifier should be preceded by a label indicating the type of identifier

KBART and knowledge bases



- Knowledge Bases and Related Tools
- Another best practice initiative (RP-9-2014), originating here with UKSG and now adopted/supported by NISO
- After study Link Resolvers and the Serials Supply Chain, aims to “...determine and promote best practice ... and improve exchange of metadata with knowledge bases”

KB more ...

- Knowledge bases are created and maintained by a variety of organizations:
 - Commercial providers of library services or systems (see next)
 - Community-led initiatives, often directly involving libraries themselves
- Examples of the latter include:
 - Knowledge Base Plus, curated by Jisc
 - GOKb (Global Open Knowledgebase), supported by Kuali OLE in the States and Jisc here in UK



ONIX-PC - making journals visible via structured metadata feeds

- We've already seen how critical discoverability is to the purchase and usage of books/ebooks - hence ONIX for Books
- Just as important in the serials world too
- ONIX-PC provides a standard format for in-depth description of journal products
- Actually, anything subscribe-able, so single journals or multi-journal packages, online and/or print, journal + ebook, etc
- Routinely produced to date by Springer Nature, Elsevier, Wiley, Taylor & Francis, Cambridge UP

ONIX-PC, making journals visible

- Key features:
 - Structured, authoritative descriptive metadata
 - Intended for machine-to-machine communication
 - Product details but also simple/complex pricing models
 - Most recent release - Open Access features too
- Recipients include agencies, Harrassowitz, LM Info, EBSCO, others. Looking to extend range to include knowledge bases, LMS vendors and others
- Future plans include exploring Linked Data options

MOLECULAR STRUCTURE OF NUCLEIC ACIDS

A Structure for Deoxyribose Nucleic Acid

WE wish to suggest a structure for the salt of deoxyribose nucleic acid (D.N.A.). This structure has novel features which are of considerable biological interest.

A structure for nucleic acid has already been proposed by Pauling and Corey¹. They kindly made their manuscript available to us in advance of publication. Their model consists of three intertwined chains, with the phosphates near the fibre axis, and the bases on the outside. In our opinion, this structure is unsatisfactory for two reasons: (1) We believe that the material which gives the X-ray diagrams is the salt, not the free acid. Without the acidic hydrogen atoms it is not clear what forces would hold the structure together, especially as the negatively charged phosphates near the axis will repel each other. (2) Some of the van der Waals distances appear to be too small.

Another three-chain structure has also been suggested.

It has not escaped our notice that the specific pairing we have postulated immediately suggests a possible copying mechanism for the genetic material.

Full details of the structure, including the conditions assumed in building it, together with a set of co-ordinates for the atoms, will be published elsewhere.

J. D. WATSON
F. H. C. CRICK

Medical Research Council Unit for the
Study of the Molecular Structure of
Biological Systems,
Cavendish Laboratory, Cambridge.
April 2.



This figure is purely diagrammatic. The two ribbons symbolize the two phosphate-sugar chains, and the horizontal rods the pairs of bases holding the chains together. The vertical line marks the fibre axis.

Identifiers in journals metadata

- The journals themselves - ISSN
- Journal articles - DOI (primarily from Crossref)
- Supporting material & datasets - DOI (primarily from DataCite)
- Authors and contributors - ORCID
- Organizations - Ringgold ID, ISNI, others
- Countries, currencies, languages, scripts - use the relevant ISO standards

JATS and ALI

- Journal Article Tag Suite
 - A set of XML elements and attributes for tagging journal articles
 - Very widely implemented and deployed
- Access & License Indicator
 - A NISO recommended practice, RP-22-2015
 - Aims to “... standardize bibliographic metadata to describe the accessibility of journal articles as well as communicating the [articles’] license details”
 - Initial focus was on identifying/signalling open access articles

Useful links

- ALI: <http://www.niso.org/workrooms/ali/>
- Crossref: <https://www.crossref.org/>
- DataCite: <https://www.datacite.org/>
- ISSN: <http://www.bl.uk/bibliographic/issn.html>
- JATS: <https://jats.nlm.nih.gov/>
- KBART: <http://www.niso.org/workrooms/kbart>
- ODI: <http://www.niso.org/workrooms/odi/>
- ONIX-PC: <http://www.editeur.org/126/ONIX-PC/>

In conclusion

- Don't hide your wonderful journals content under a virtual bushel
- Love your metadata and it'll love you back!
- Thanks for your interest and attention!

tim@editeur.org

www.editeur.org



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ONIX-PC at Springer Nature

Henning Schoenenberger

BIC Breakfast

London, June 27, 2017

SPRINGER NATURE

Our Metadata Mission Statement

Our Metadata Mission Statement

1

We understand metadata as the gateway to our content

Our Metadata Mission Statement

1

We understand metadata as the gateway to our content

2

We provide best quality metadata with state-of-the-art enrichment in all key formats and flavors, available in all relevant delivery models.

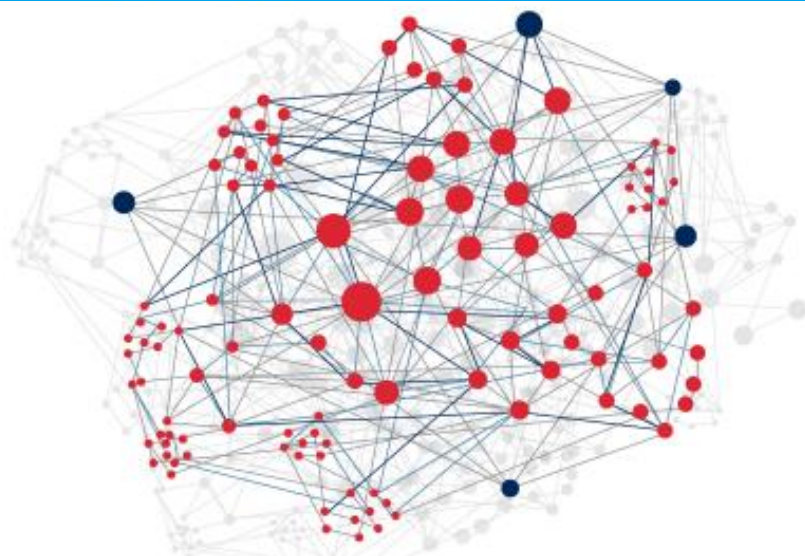
Our Metadata Mission Statement

1	We understand metadata as the gateway to our content
2	We provide best quality metadata with state-of-the-art enrichment in all key formats and flavors, available in all relevant delivery models.
3	Our bibliographic metadata is free, open and re-usable.

Springer Nature SciGraph

A Linked Open Data platform for the scholarly domain

We are pleased to introduce Springer Nature SciGraph, the new Linked Open Data platform aggregating data sources from Springer Nature and key partners from the scholarly domain. The Linked Open Data platform will initially collate information from across the research landscape, such as funders, research projects, conferences, affiliations and publications. Additional data, such as citations, patents, clinical trials and usage numbers will follow over time. This high quality data from trusted and reliable sources provides a rich semantic description of how information is related, as well as enabling innovative visualizations of the scholarly domain.



Further Info



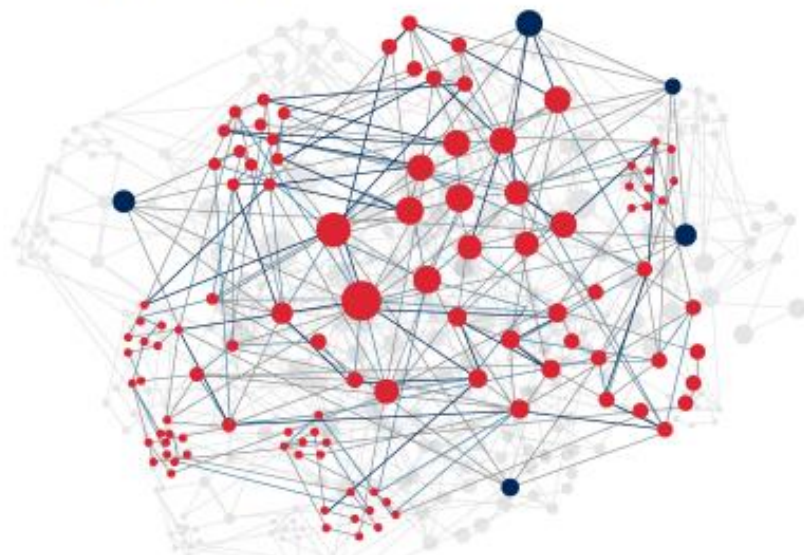
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By doing so, Springer Nature SciGraph overcomes former boundaries by relating comprehensive information about the research landscape. It represents a further step in data integration and it will continue to grow organically. This platform will increase the discoverability of high quality data as larger parts of our datasets will be made freely available under a CC BY-NC 4.0 license.




Any questions?
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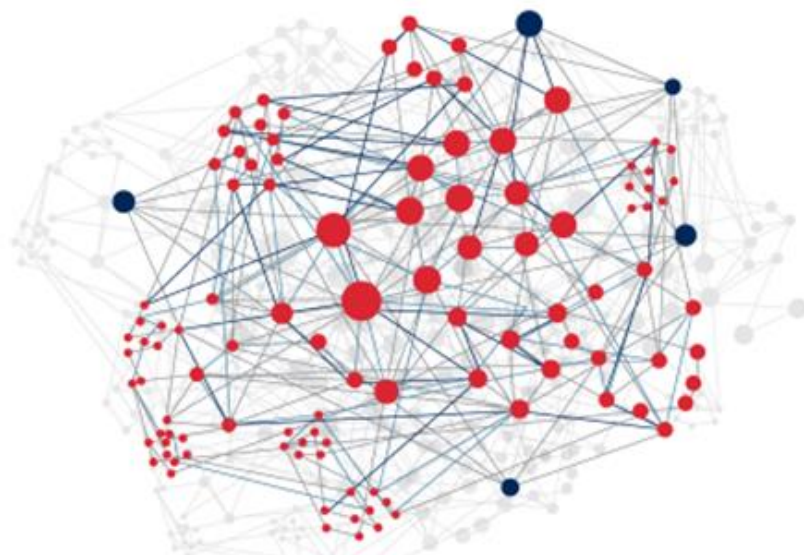
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Downloads

Dataset	Description	Triples	File size	Links
Ontologies		1,401	12K (245K)	.nt.bz2 .md5
Articles	2016	34,511,256	828M (7.1G)	.nt.bz2 .md5
	2015	32,147,098	766M (6.6G)	.nt.bz2 .md5
	2014	31,660,946	758M (6.5G)	.nt.bz2 .md5
	2013	29,157,570	688M (6.0G)	.nt.bz2 .md5
	2012	26,399,143	636M (5.5G)	.nt.bz2 .md5
Grants		1,021,970	48M (342M)	.nt.bz2 .md5
Journals		94,693	2.0M (18M)	.nt.bz2 .md5
Subjects		37,777	420K (6.4M)	.nt.bz2 .md5
<i>Total</i>		155,031,854	3.7G (32G)	

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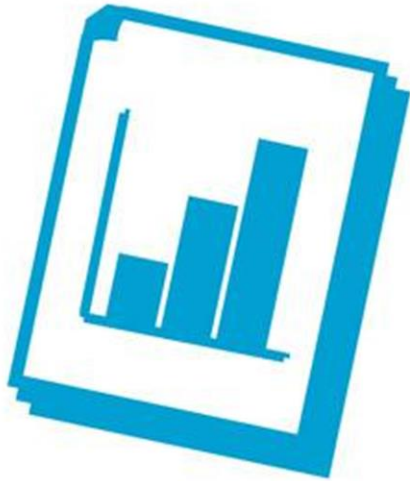
At a glance:

- 150 M triples / 32 GB size

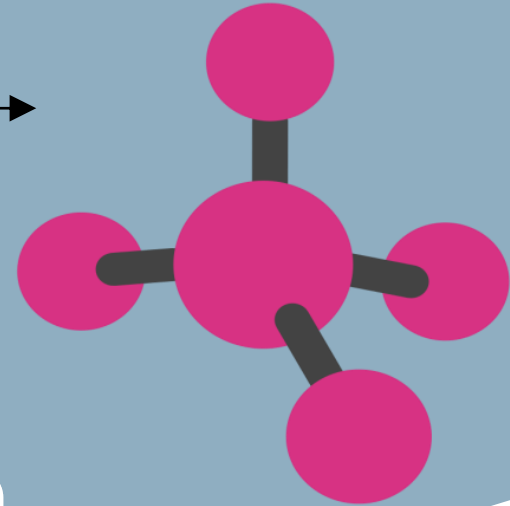
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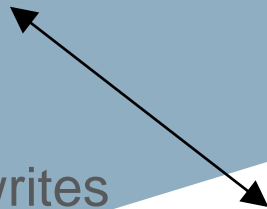
Three areas of knowledge we care about



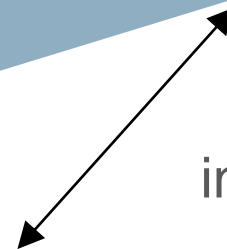
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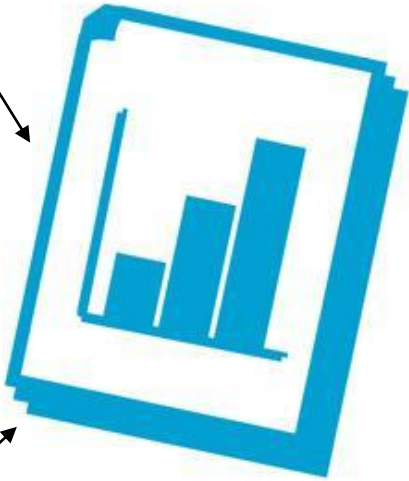
Has topic



In proceedings



Has learning resource



Contains

flickr

Attends

Studies

Produces

Cites



Reads / Writes

Funds



Lead researcher in

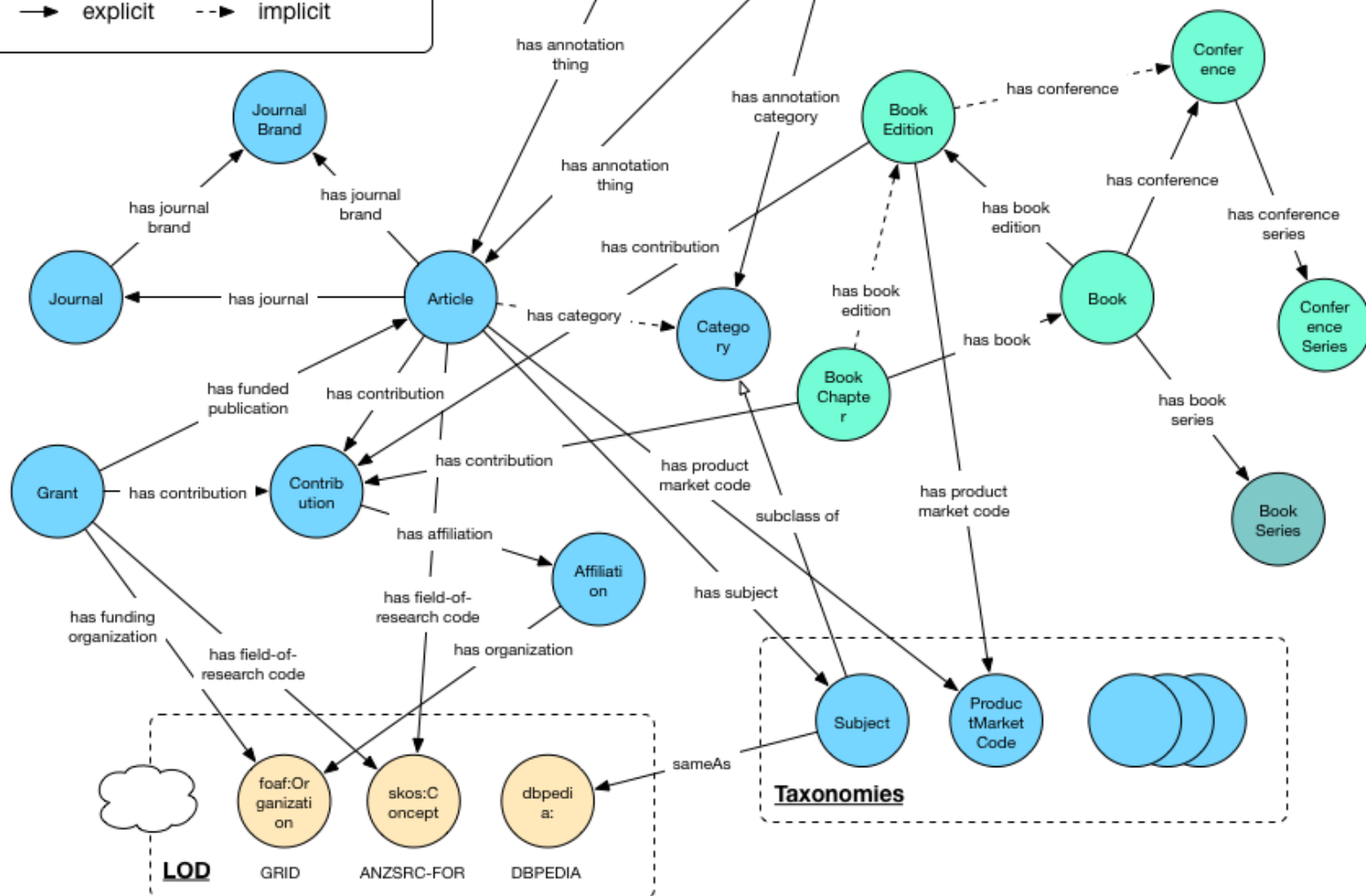
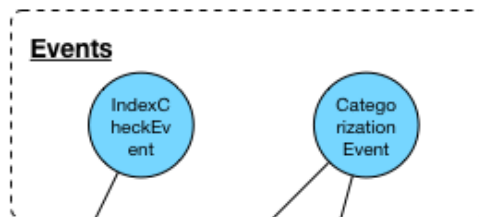
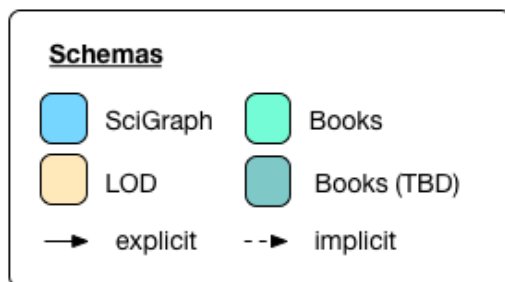


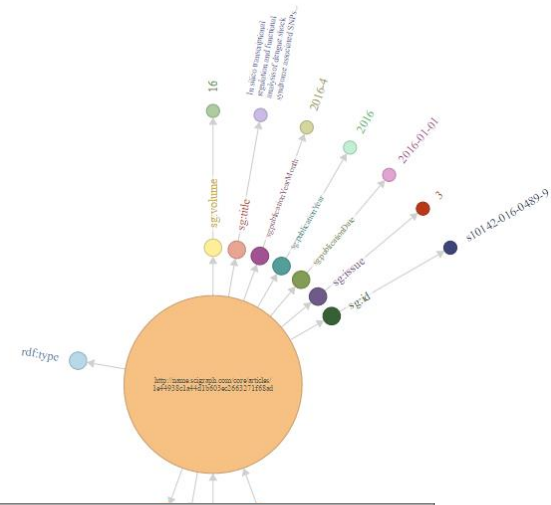
Works for



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SPRINGER NATURE





Springer Nature SciGraph Hack Day

- Hack Day in June 2017 in London
- Aims and Scope
 - Engagement with Linked Data Researcher Community
 - Encourage developers to build cool tools with our data
 - Connect the community as a hub
 - Position ourselves as Open Data Research publisher

Hopper Hosts Hackathon with
Elasticsearch, Igor Motov.
<https://www.elastic.co>



ONIX-PC at Springer Nature

ONIX-PC at Springer Nature

ONIX-PC is THE Springer Nature journal product catalog

- Springer was one of the early adopters of ONIX-PC.
- With the merger of Springer Nature, our ONIX-PC contains 3059 journals from Nature, Springer and Palgrave Macmillan, to just name the most important imprints.
- With the transition from being just a Price Catalog to become a comprehensive Product Catalog, we consider ONIX-PC as the best journal data standard
 - Completeness compared to purely bibliographic journal data formats
 - Yet lean => taking advantage from proven experience with ONIX for books

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ONIX-PC at Springer Nature

Current settings and pending harmonization

- We send ONIX-PC
 - as a full export
 - on a monthly basis
 - via ftp
- Pending:
 - Adaption of additional currencies YEN and GBP (so far only available for Nature and Palgrave Macmillan journals)
 - New price types and harmonization, e. g. print + electronic (Springer) vs. print only and e-only (Nature + Palgrave Macmillan)

ONIX-PC at Springer Nature

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</ProductComponent>
</SubscriptionProductRecord>
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ONIX-PC at Springer Nature

Current recipients and adoption

- Adoption could be better:
 - Just a handful agencies and aggregators to date
 - Harrassowitz
 - EBSCO
 - LM Information Delivery
 - Schweitzer Fachinformationen
 - Bureau van Dijk
 - Kinokuniya (currently testing)
- Difficult adoption in the area of libraries and Open Access catalogs (e. g. DOAJ) although ONIX-PC contains all relevant Open Access data and hybrid journals data

ONIX-PC and Linked Data

Quote from the April 2017 EDItEUR newsletter

- “Looking further ahead, participants discussed the concept of introducing ONIX-PC to the growing community of linked data users – perhaps via an RDF expression of the standard. Given the deepening interest in the library world’s development of BIBFRAME and the evolution of various publisher offerings in linked data format, EDItEUR will coordinate an initial evaluation of how this might be carried out.”

ONIX-PC at Springer Nature

Data cleanup and validation

- We also used the introduction of ONIX-PC to clean our journal data and introduce a variety of data validations that also benefit our product platforms, journal data delivery and external platforms in general (proprietary format A++, SpringerLink etc.).

ONIX-PC at Springer Nature

Data cleanup and validation

- We also used the introduction of ONIX-PC to clean our journal data and introduce a variety of data validations that also benefit our product platforms, journal data delivery and external platforms in general (proprietary format A++, SpringerLink etc.).

Test files

- Anybody interested in ONIX-PC is invited to receive and test our data
 - either full catalog
 - or sample file

Thank you!

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A close-up photograph of a breakfast plate on a dark, speckled countertop. The plate contains a croissant, a slice of toast, and a piece of bacon. A knife and a cup of coffee are also visible in the background.

Over to Magaly...

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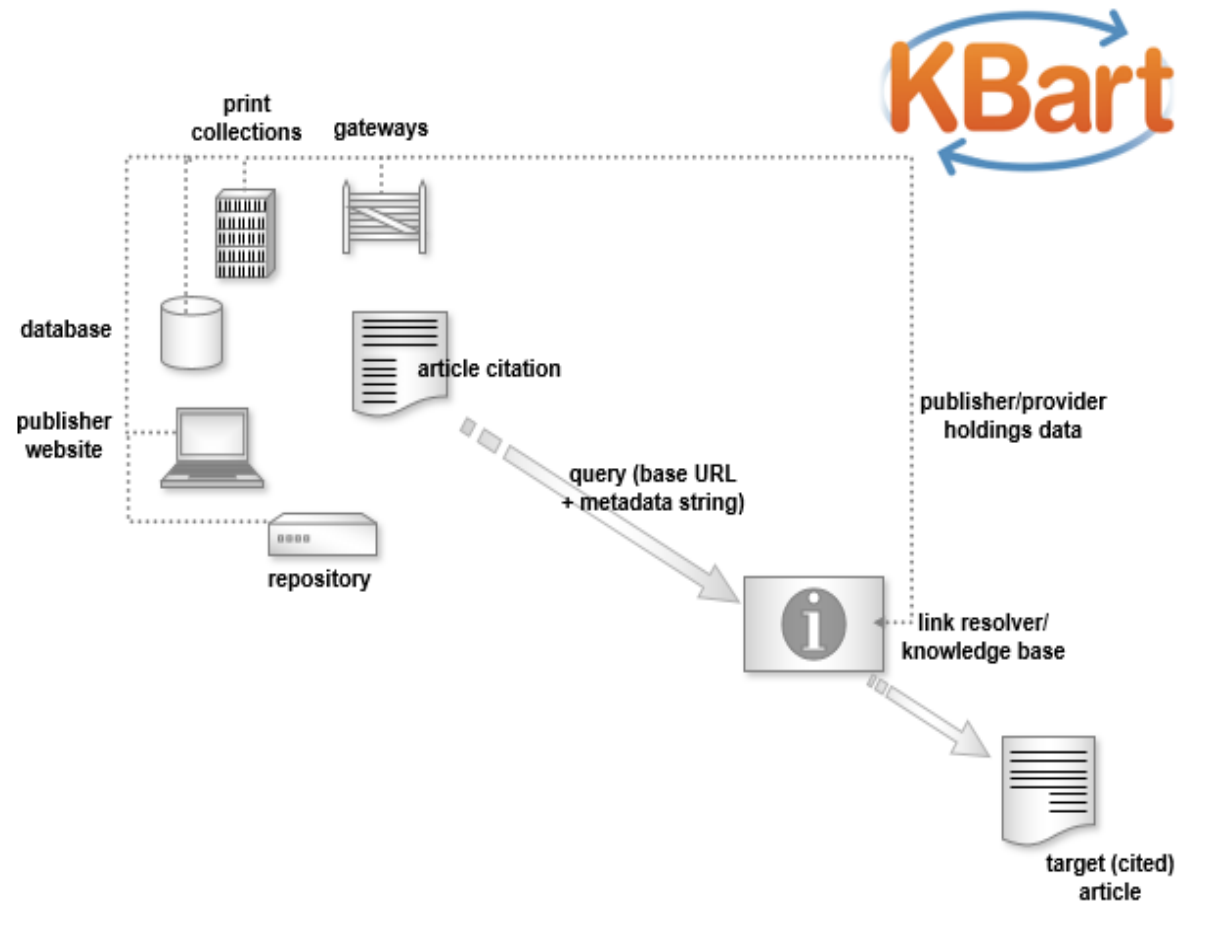
Knowledge Base+ and KBART

Magaly Bascones KB+ Service Manager and Co-Chair of the NISO KBART Standing Committee

BIC Breakfast on Metadata for Journals Discovery, 27th June 2017

Knowledge Base+ and KBART

UKSG 2007 research report, “link resolvers and the serials supply chain” lack of awareness of OpenURL's capabilities impacting the quality and timeliness of data provided to knowledge bases undermining the potential of this sophisticated technology



KNOWLEDGE BASE+

Knowledge Base+ and KBART

KBART recommendations phase 1

publication_title	Publication title
print_identifier	Print-format identifier (i.e., ISSN, ISBN, etc.)
online_identifier	Online-format identifier (i.e., eISSN, eISBN, etc.)
date_first_issue_online	Date of first issue available online
num_first_vol_online	Number of first volume available online
num_first_issue_online	Number of first issue available online
date_last_issue_online	Date of last issue available online (or blank, if coverage is to present)
num_last_vol_online	Number of last volume available online (or blank, if coverage is to present)
num_last_issue_online	Number of last issue available online (or blank, if coverage is to present)
title_url	Title-level URL
first_author	First author (for monographs)
title_id	Title ID
embargo_info	Embargo information
coverage_depth	Coverage depth (e.g., abstracts or full text)
coverage_notes	Coverage notes
publisher_name	Publisher name (if not given in the file's title)

KBART phase 1
recommendations
published in 2010

Knowledge Base+ and KBART

KBART recommendations phase 2

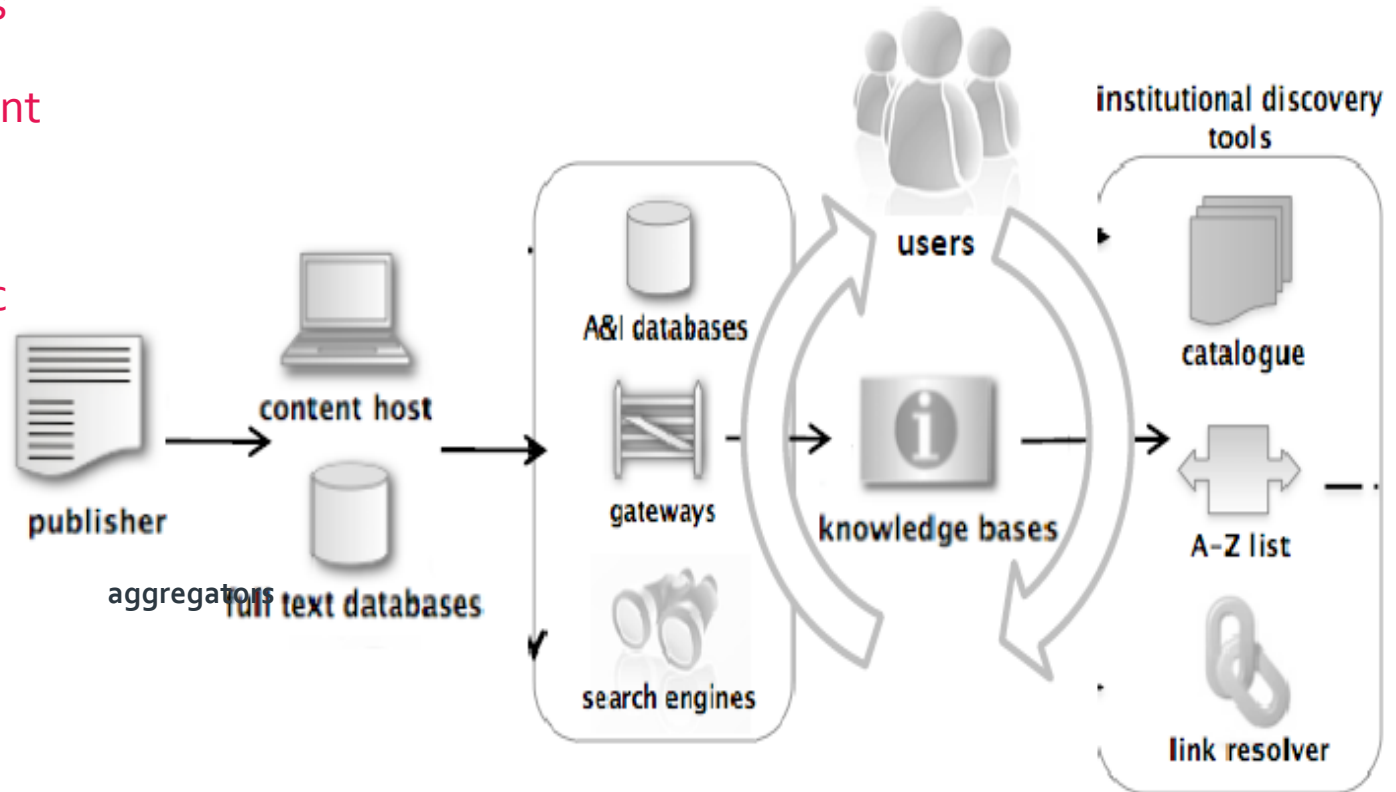
- » Publication title
- » Print identifier
- » Online identifier
- » Date first issue online
- » Num first vol online
- » Num first issue online
- » Date last issue online
- » Num last vol online
- » Num last issue online
- » Title url
- » First author
- » Title id
- » Embargo info
- » Coverage depth
- » Notes
- » Publisher name
- » Publication type
- » Date monograph published online
- » Monograph volume
- » Monograph edition
- » First editor
- » Parent publication title id
- » Preceding publication title id
- » Access type
- » Date monograph published print

KNOWLEDGE BASE+

Metadata supply chain

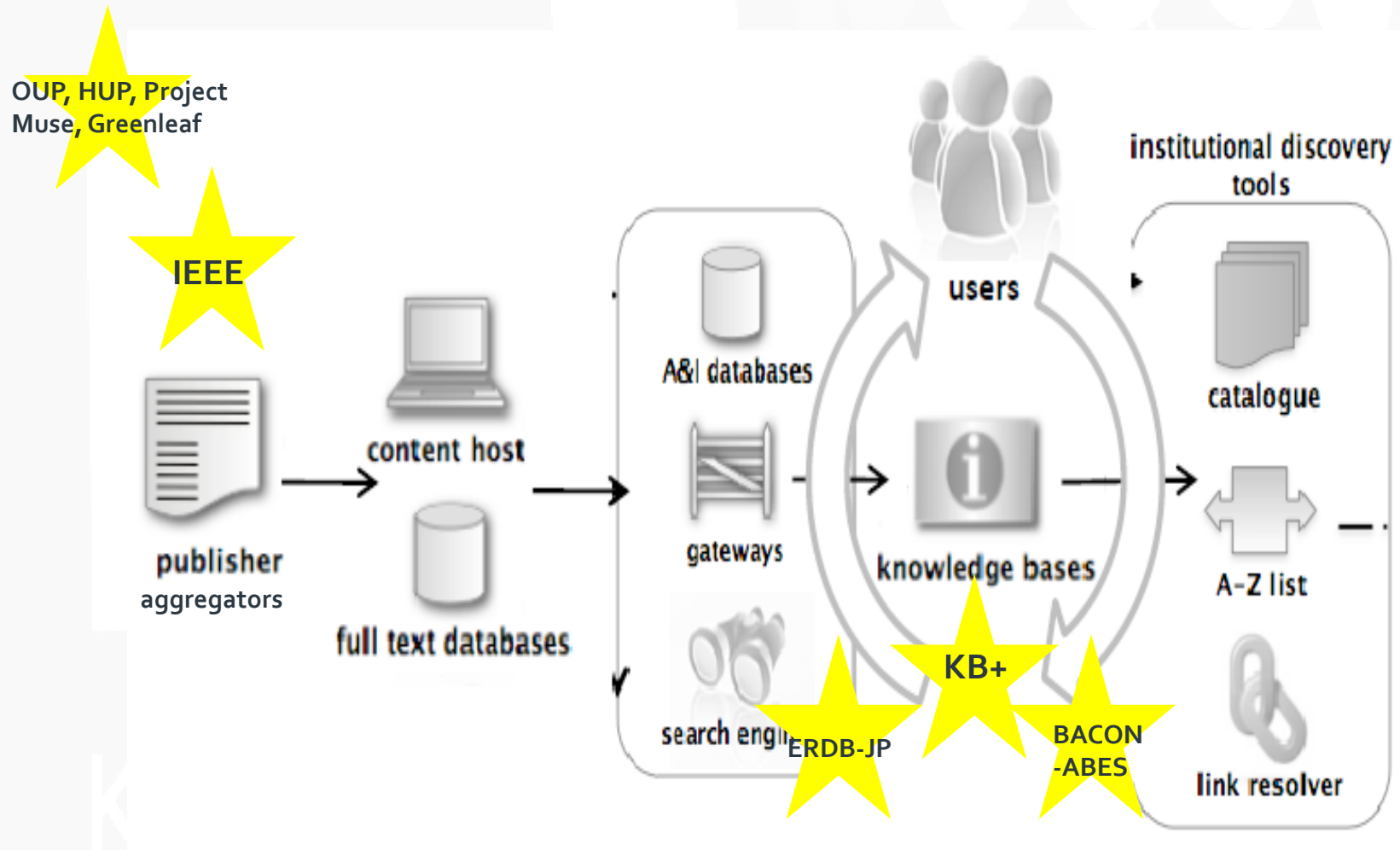
Most of the Publishers and content providers are providing significant metadata.

Some of them still do not provide even basic KBARTish formatted files.



KNOWLEDGE BASE+

Metadata supply chain



What is Knowledge Base+ (KB+)?

'Knowledge Base+ (KB+) is a service from Jisc that aims to help UK libraries manage their e-resources more efficiently by providing accurate publication, subscription, licence and management information.'



Metadata Provision

- » KB+ is a metadata provider.
- » All title lists are made available under a CCO licence and can be downloaded in several formats (KBART, XML, CSV and JSON) via a publicly accessible webpage. KB+ has an API to support the transfer of publication information data.

Development of data management tools within KB+. Technical partners Knowledge Integration and Sero Consulting.

September 2015: The ability to export the additional fields required for the KBART standard.

August 2016: The ability to upload the additional fields into KB+ such as:

» Preceding title information

Challenges (1)

» Obtaining KBART standard lists for a package/collection

Lists can vary dependent on the content provider: PDF, Word, Email, Excel.

KB
KNOWLEDGE BASE+

Challenges (2)

» Clarifying content

- Usually results in multiple lists from various departments.
- Which titles are included within the terms of the licence?
- Which titles have moved in and out of packages?
- What years/volumes/issues are accessible as part of the package?

Challenges (3)

» Quality

- Format to a workable list (this may involve typing the whole list!).
- Ensuring there are no duplicates.
- Checking for any ISSN mismatches.
- Reconciling any date discrepancies manually – sometimes these can be inconsistent within the same document.
- Checking for missing title history. Several publishers include content for a publications previous title together with its current title.

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Challenges (4)

» Vendor systems

- Vendors sometimes alter KB+ package title lists.
- Lists that have not been identified as having been curated by KB+.
- Issues with data import.

Challenges (5)

» Errors

- Feedback from a supportive user group ~ one of the benefits of having a community.
- Data quality is always improving in KB+ and it will only get better!

» The Future

Facilitating truly transparent information surrounding packages/subscriptions – holdings and rights

- Content providers to be encouraged to provide KBART metadata.
- Incorporation of new KBART field for title history to increase discoverability.
- Vendors using KBART files should take advantage of the quality and upload as it is.
- KBART standards are already having an impact on discoverability and interoperability and this will improve the more they are adopted.

KNOWLEDGE BASE+

A close-up photograph of a hand holding a white rectangular card. The hand is positioned at the top and bottom edges of the card, with fingers visible. The card contains text in black and red. The background is a light gray with a faint pattern of white circles and lines.

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•

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Any questions?



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BOOK INDUSTRY COMMUNICATION LTD

Thank you for attending June's BIC Breakfast:

**Metadata for Journals Discovery -
What Publishers Need to Know**

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