

The Importance of metadata for Asian Scholarship



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Mochammad Tanzil Multazam

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Relawan Jurnal Indonesia



Robbykha Rosalien

Member Support Specialist,
Crossref

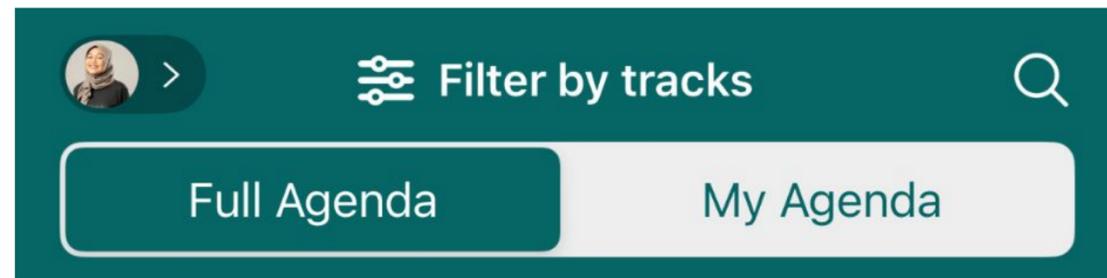
Wednesday, January 28, 2026



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Poll Questions

Please login Whova Event Apps and search “The importance of Metadata for Asian scholarship”



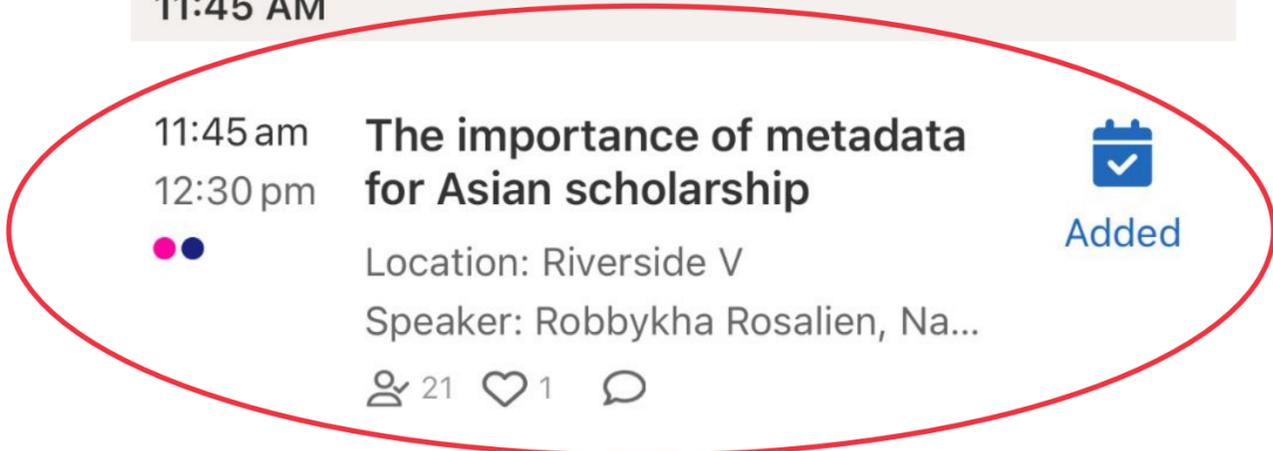
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Full Agenda My Agenda



2026 JAN Mon 26 Tue 27 Wed 28 Thu 29

11:45 AM



11:45 am - 12:30 pm

The importance of metadata for Asian scholarship

Location: Riverside V
Speaker: Robbykha Rosalien, Na...

21 likes, 1 comment

Added



Agenda Details

The importance of metadata for Asian scholarship

Wednesday, 28 January 2026
11:45 am - 12:30 pm

[Riverside V](#) [View map](#)

Lively Conversation Scholarly Communication

Added to My Agenda (21 attending)

Q&A

Polls (2)

Like (1)

Chat

Questions:

1). The importance of metadata for Asian scholarship

2). What are key challenges to adoption of rich metadata in your country/institution?



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Asian Metadata in Crossref



Robbykha Rosalien
Member Support Specialist, Crossref



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What is Crossref?

We're a **not-for-profit membership organisation** that exists to make scholarly communications better

Together with 24,000 members in 164 countries **who maintain >177 million Crossref DOI records**, we drive **metadata exchange** and support nearly 2 billion monthly API queries

Crossref makes **research objects** easy to find, cite, link, assess, and reuse (such as articles, preprints, books, grants, standards, datasets, and more)



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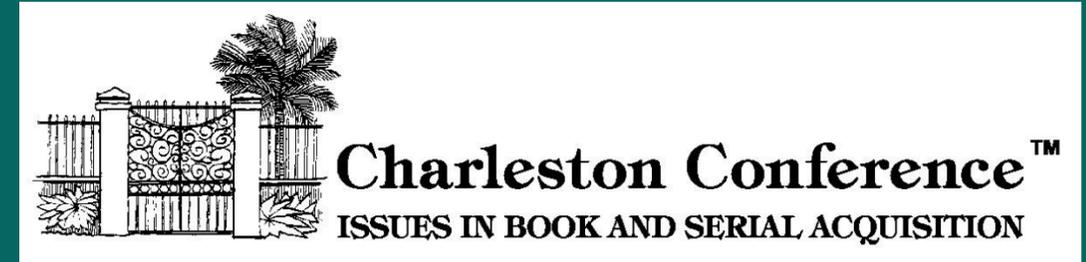
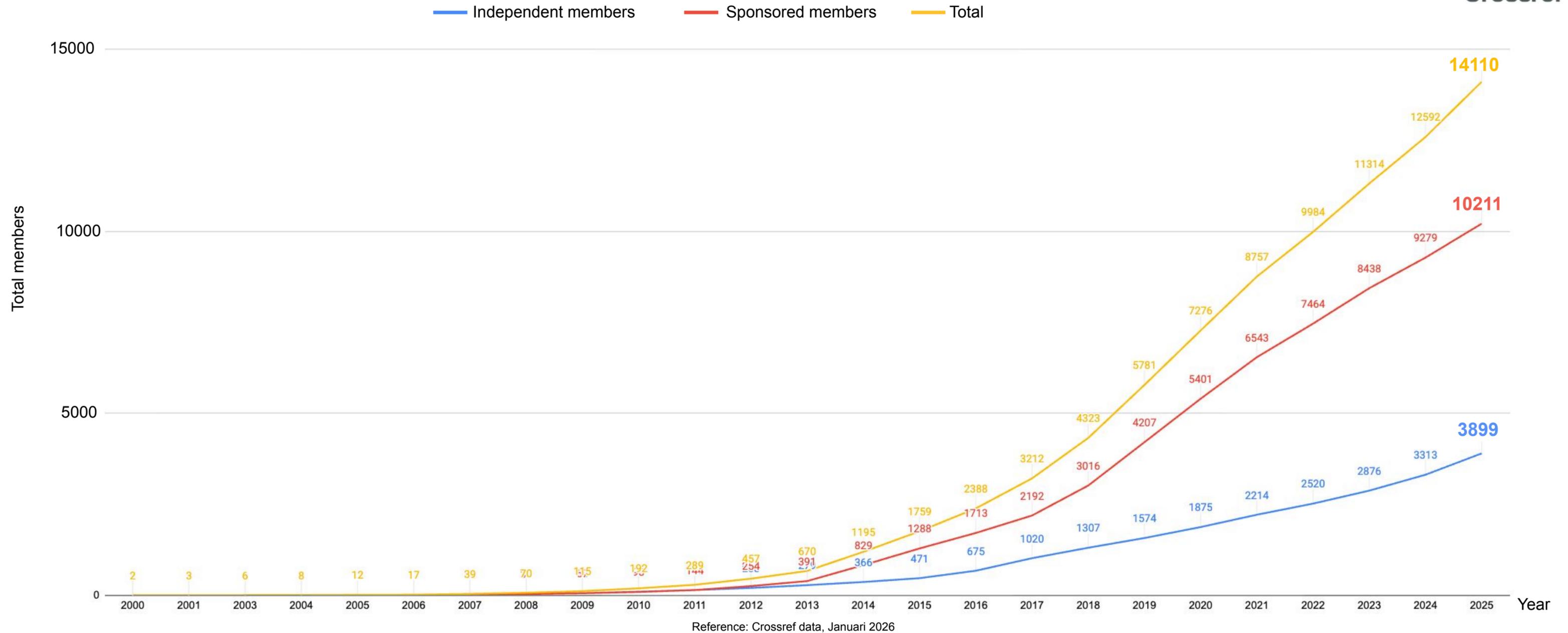
Research Nexus vision

“A rich and reusable open network of relationships connecting research organizations, people, things, and actions; a scholarly record that the global community can build on forever, for the benefit of society.”



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Total members in Asia



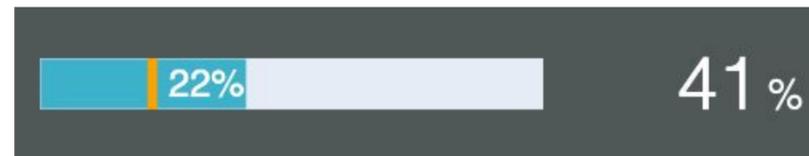
Asian metadata coverage in numbers

- **13.8M** registered DOIs as of January 19th, 2026
 - Growth of 93% over the last 5 years, vs 47% at World level
- Coverage of optional fields compared with the **world average** :

References



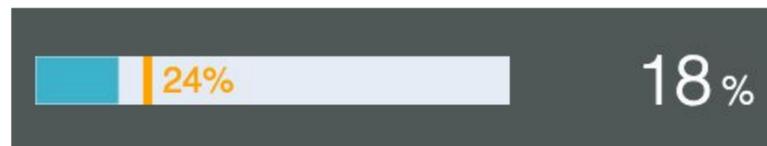
Abstract



ORCID IDs



Affiliations



Text-Mining URLs



Crossmark enabled



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Works registered in the region



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Policy and support for adoption of persistent identifiers and metadata in Indonesia



Mochammad Tanzil Multazam
Universitas Muhammadiyah Sidoarjo

Relawan Jurnal Indonesia



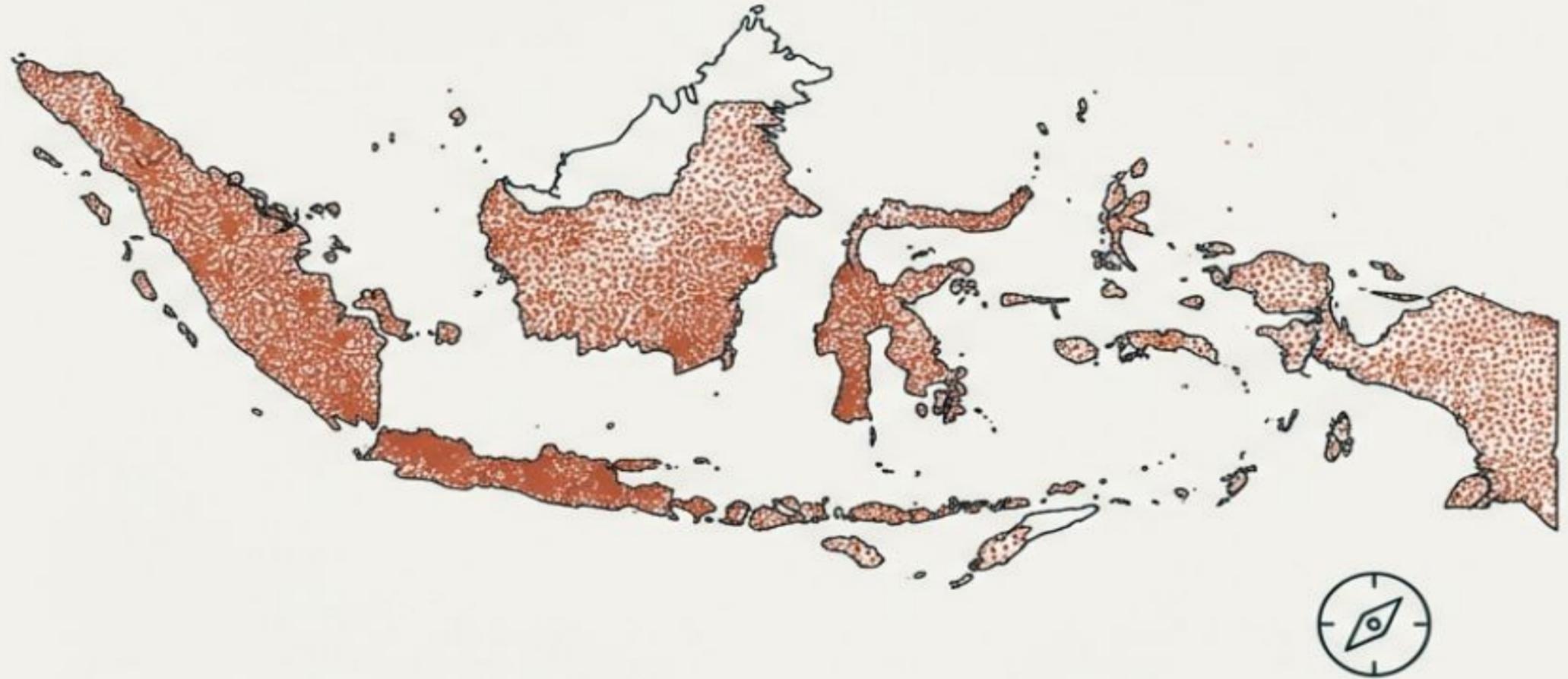
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A Research Ecosystem of Unprecedented Institutional Scale

5,510



Universities, institutes, and higher education institutions form the foundation of Indonesia's research landscape (Source: SINTA).



Imagine the volume of theses, dissertations, and research outputs if every institution maintains an open repository. This represents one of the largest potential research footprints in the region.



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A Global Leader in Open Access Journal Publishing



27,807
Scholarly Journals



5,161
Publishers

Data as of 13 January 2026, Portal Garuda.

This is likely one of the largest and fastest-growing Open Access journal ecosystems in the world.

Indonesia's production is not in question. The real question is: can this scale be captured properly through metadata?

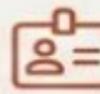


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Diagnosis 1: 'OAI-Friendly' Is Not Metadata-Complete

Most of Indonesia's 27,807 journals use Open Journal Systems (OJS), making them easily harvestable via OAI-PMH. This has enabled basic discoverability at a national level.

However, OAI-PMH primarily exposes only basic metadata. For true global connection and assessment, richer metadata is essential.

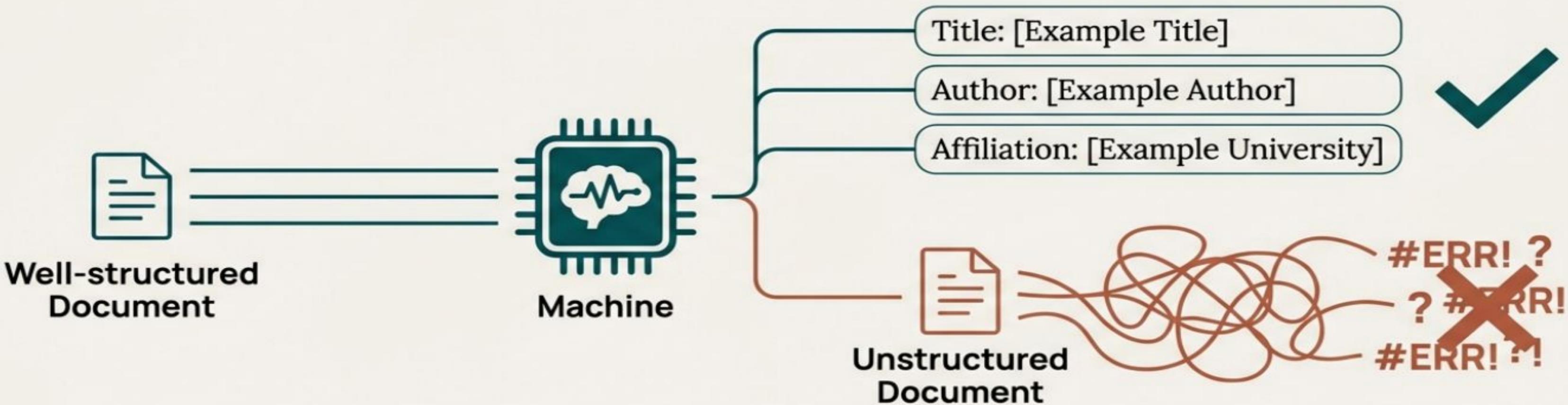
Provided by OAI			Missing from OAI		
✓		Basic Title	✗		Structured Affiliations
✓		Author	✗		Author ORCID
✓		Abstract	✗		Institutional ROR
			✗		References
			✗		Licence Information

If basic metadata is inconsistent, even this limited harvesting becomes misleading and machine indexing fails.



Diagnosis 2: Open Access Content ≠ Open, Machine-Readable Knowledge

The metadata within the PDF and Galley files of Open Access articles is often not standardised or curated.



For Human Readers

Confusion from missing headers, inconsistent author details, and incorrect citation information upon download.

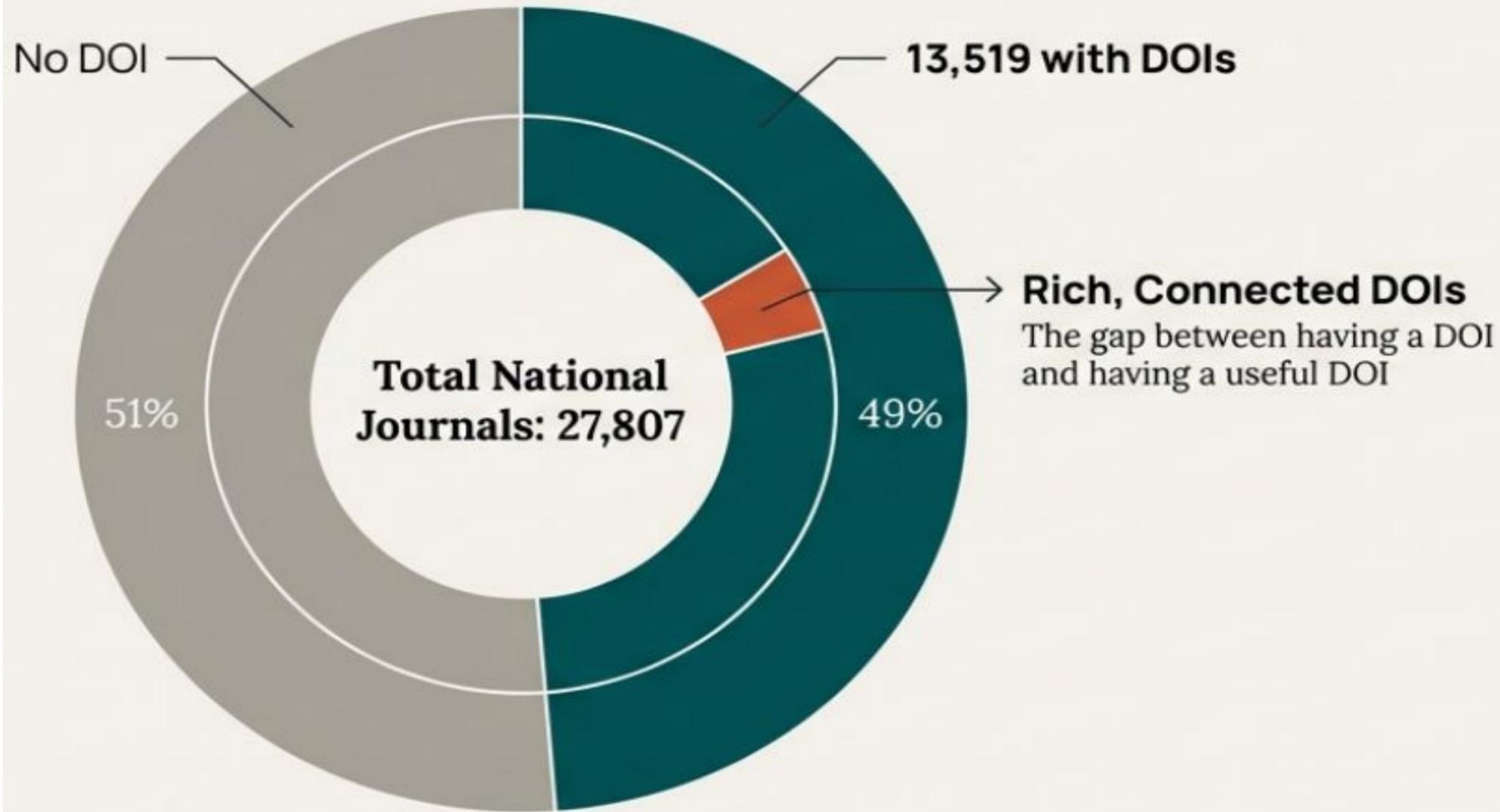
For Machines

Text mining and semantic extraction fail when PDF structure is inconsistent, lacks metadata tags, or contains formatting noise.



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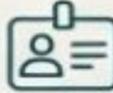
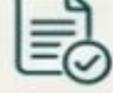
Diagnosis 3: DOI Adoption Is a Start, Not the Destination



Of 27,807 national journals, approximately 13,519 have registered DOIs correctly (Source: SINTA, 13 Jan 2026).

Having a DOI is not enough. Its real value is unlocked when the DOI record contains **rich, interoperable metadata** that describes the relationships between outputs, people, and institutions.

What Makes a DOI Rich?

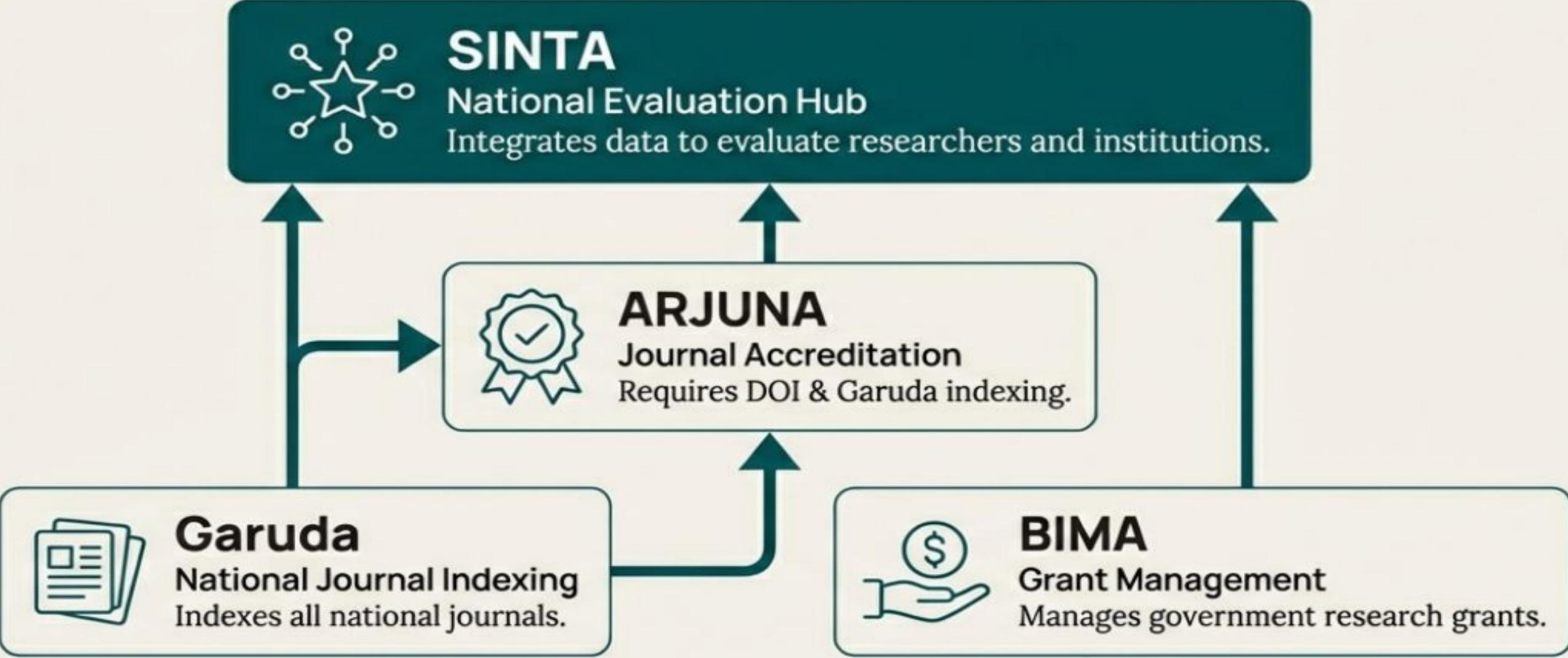
-  ORCID for each author
-  ROR for affiliations
-  Full reference deposits
-  Accurate CRediT and licensing metadata



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A Cohesive National Ecosystem Is Already in Place

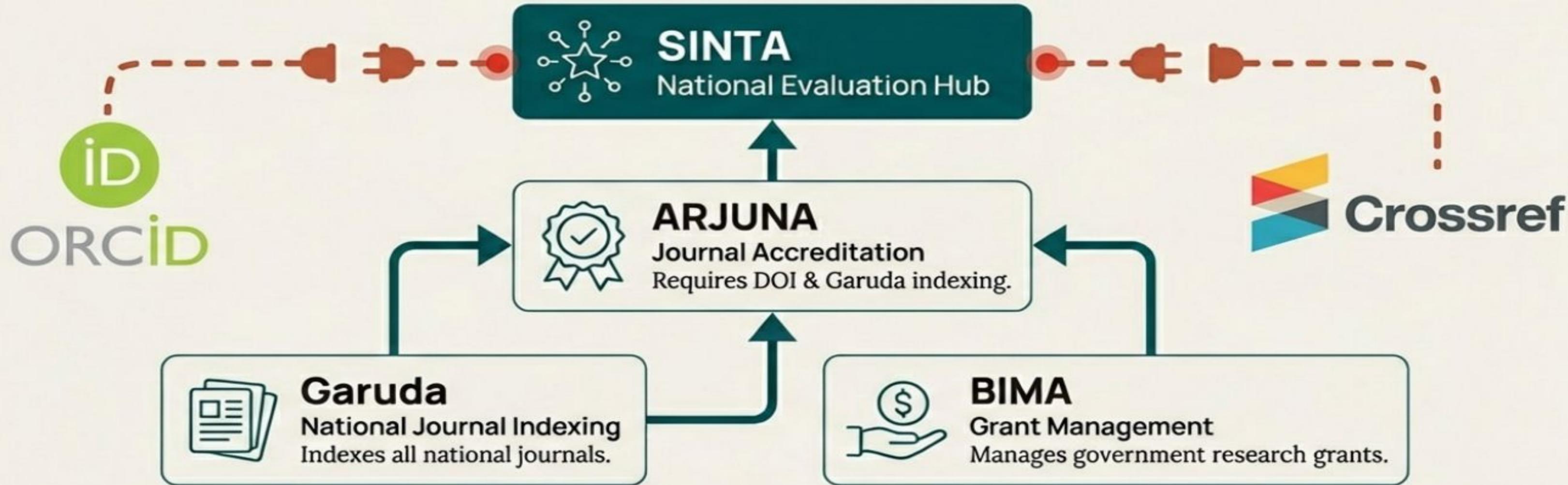
Indonesia has a strong, integrated system of national portals designed to support and evaluate research.



The structural foundation for a high-quality data ecosystem exists.

The Strategic Gap: Integrating Global Persistent Identifiers

The primary gap in the current system is that SINTA, the national evaluation hub, is not yet integrated with the global infrastructures of ORCID and Crossref.



Policy is already moving in this direction. Closing this integration gap is the single most impactful next step for connecting Indonesian research to the world.



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The Evolution of Indonesia's Metadata Policy



Phase 1: Digitisation & Basic Interoperability

Focus: Repositories

National push to put theses/dissertations online and integrate them via OAI-PMH into Indonesia OneSearch.

Goal: To map the landscape of Indonesian research outputs.



Phase 2: Standardisation & Compliance

Focus: Scholarly Publishing

Ministry requirement for accredited journals to have active DOIs and be OAI-harvestable.

Goal: To enforce basic standards for national journals.



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From Ticking Boxes to Building Bridges: A Needed Shift in Policy Focus

The Current Focus

In practice, policies have rewarded indicators of **compliance**.

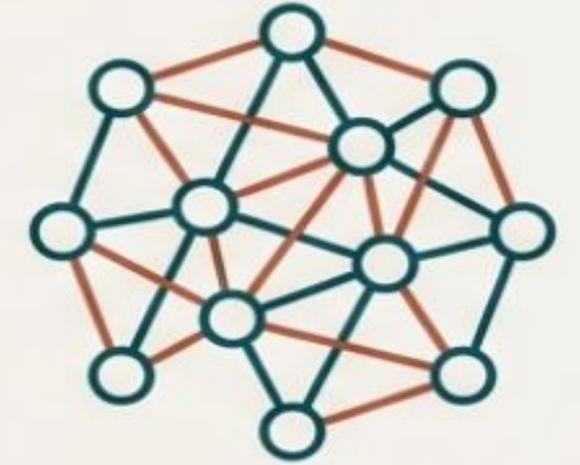


Compliance Indicators (Current)

- Has a DOI
- Is OAI-harvestable

The Needed Focus

The next evolution requires a shift to rewarding indicators of **metadata maturity**.



Maturity Indicators (Future)

- Completeness & Structure
- Identity Resolution (ORCID/ROR)
- Reference & Relationship Deposits
- Licence Clarity



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The Path Forward: A Maturity Model for Scholarly Metadata



Stage 1: Compliance (Current State)

- “Has a DOI,”
- “Is OAI-harvestable.”

Outcome
Basic national
discoverability.



Stage 2: Completeness (Next Step)

- “Clean basic metadata,”
- “Structured affiliations.”

Outcome
Improved data quality and
reliability.



Stage 3: Connectivity (Future Goal)

- “Rich PIDs (ORCID, ROR),”
- “Full reference deposits,”
- “Global integration.”

Outcome
Full discoverability, trust,
and global connection.



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Metadata Landscape in Thai Academia



Namtip Wipawin, Prof. Dr.
Sukhothai Thammathirat Open University, Thailand
Thailand DOI Service Center Project, NRCT



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Types of Metadata in Thai Academia

Most research databases in Thailand use **Descriptive and Administrative Metadata** such as ThaiLIS Digital Collection (TDC), Chulalongkorn University Intellectual Repository – CUIR(Chula DigiVerse)

TDC Home Basic Search Advance Search Browse Help

Title	Integrated digital literacy & internal brand communication
Creator	Name: Kankeawl Putthianan
Subject	keyword: Siam City Cement
Publisher	King Mongkut's University of Technology Thonburi. KMUTT Library Address: BANGKOK Email: info.lib@mail.kmutt.ac.th
Contributor	Name: Chokeanand Bussracumpkorn Role: Advisor
Date	Created: 2014 Modified: 2558-05-23 Issued: 2015-05-23
Type	วิทยานิพนธ์/Thesis
Format	application/pdf
Source	CallNumber: ARC1141
Language	eng
Thesis	DegreeName: Master of Science Level: Master's Degree Discipline: Design and Planning Grantor: King Mongkut's University of Technology Thonburi

ลำดับที่.	ชื่อแฟ้มข้อมูล	ขนาดแฟ้มข้อมูล
1	ARC1141.pdf	1.79 MB

🕒 21 Feb 2024 👁 162

Restore Up

Report a problem



Academic management strategies of secondary schools in Cambodia based on the concept of innovation leadership skills is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.

Collections	CHULA e-Theses Faculty of Education
ID CU Digital	CUIR20491
Title	Academic management strategies of secondary schools in Cambodia based on the concept of innovation leadership skills
Title Alternative	กลยุทธ์การบริหารวิชาการโรงเรียนมัธยมศึกษาในประเทศไทยกับพหุชาตามแนวคิดทักษะความเป็นผู้นำด้านนวัตกรรม
Author	Nguon Siek
Advisor	Pruet Siribanpitak Sukanya Chaemchoy
Subject	High schools -- Cambodia education (Education) โรงเรียนมัธยมศึกษา -- กับพหุชา การบริหารการศึกษา การศึกษา
Issued Date	2022
DOI	10.58837/CHULA.THE.2022.122
Pagination	350 pages
Abstract	This study aimed to 1) study conceptual frameworks of academic management of secondary schools in Cambodia and innovation leadership skills, 2) study students' innovation leadership skills levels,

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Dublin Core Metadata in Digital Collections



จำนวนผู้เข้าชม 370


ทัศนคติของประชาชนในกรุงเทพมหานครที่มีต่อการเสนองานภาพข่าว ที่หมิ่นเหม่ทางศีลธรรม บนหน้าหนังสือพิมพ์ไทยรายวัน is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 3.0 Thailand License.

[แจ้งปัญหา](#)

Collection	Research and Thesis Thammasat University Theses
Title	ทัศนคติของประชาชนในกรุงเทพมหานครที่มีต่อการเสนองานภาพข่าว ที่หมิ่นเหม่ทางศีลธรรม บนหน้าหนังสือพิมพ์ไทยรายวัน
Creator	สมบุรณ์ อิชยาวรกุล
Keyword	หนังสือพิมพ์ -- ภาพประกอบ. ผู้สื่อข่าวและการสื่อข่าว -- ไทย. หนังสือพิมพ์ไทย.
Publisher	มหาวิทยาลัยธรรมศาสตร์
Date of issued	1998
Type	Text
Format	application/pdf
Format-Extent	17, 264 แผ่น
Identifier (Full text)	View full text
Language	tha

รายละเอียดทั้งหมด ค้นหาทรัพยากรสารสนเทศ...

Collections: Thammasat University Theses

ปีเริ่มต้น: YYYY ปีสิ้นสุด: YYYY

ค้นหาตรงตัว ค้นหาขั้นสูง

ผลการค้นหาทั้งหมด 40,934 รายการ

เรียงข้อมูลโดย: แสดงรายการ:

ตัวกรอง:

 **ทัศนคติของประชาชนที่มีต่อการป้องกันปราบปรามของเจ้าหน้าที่ตำรวจ : ศึกษาเฉพาะกรณีท้องที่สถานีตำรวจอรุณ อำเภอพยุหะคีรี จังหวัดนครสวรรค์**

Collection : งานวิจัยและวิทยานิพนธ์
Thammasat University Theses

ปี : 1992
เจ้าของผลงาน : พิชัย ศิลาทอง

Collections

- Research and Thesis
- Thammasat University Theses **40,934**

เจ้าของผลงาน

- A-tis Thammaruja **1**
- Aachavit Krissanasuwon **1**

There are more than 100 digital collections in Thai universities/organizations.

Thai Research Archives: ISAD(G)Metadata

Identity area	
Reference code	TH NRCT AG5-1-1.1-1.5-2022-07-28/1152-2022-07-28/1154
Title	CoreTrustSeal Certification Approved : Kasetsart University Knowledge Repository Restore Up
Date(s)	• 2022-07-12 (Creation)
Level of description	Item
Extent and medium	1/1
Context area	
Name of creator	CoreTrustSeal Secretariat
Archival history	The National Research Center of Thailand contributed the archival documents for Thai National Research Archive Project on October 4th, B.E. 2564.
Content and structure area	
Scope and content	CoreTrustSeal Secretariat inform to Kasetsart University Knowledge Repository has been certified as a Trustworthy Data Repository by the CoreTrustSeal Standards and Certification Board until 12 July 2025.
Appraisal, destruction and scheduling	These documents have been evaluated, by the National Research Center, as the record documents with appropriate values for long term preservation and archive against the test of time
Accruals	Since the Thai National Research Project means responsibility for a large number of old documents as individual, there shall be no additional documents accrued hereafter.
System of arrangement	The documents are arranged by the date the files were created.
Conditions of access and use area	
Conditions governing access	The researchers must comply with the conditions for using the service of documents.
Conditions governing reproduction	The researchers must comply with the conditions for copying the documents
Language of material	• English
Language and script notes	English
Finding aids	The documents list compiled by the National Research Center.

คลังสารสนเทศจดหมายเหตุการวิจัยไทย สำนักงานการวิจัยแห่งชาติ

Thai Research Archives

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- ▼ File 2022-07-28/1152 - CoreTrustSeal Ce...
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Identity area	
Reference code	TH NRCT AG5-1-1.1-1.5-2022-07-28/1152-2022-07-28/1154
Title	CoreTrustSeal Certification Approved : Kasetsart University Knowledge Repository

More than 20 archives applies ISAD(G) in their digital archives.



Thai Journals Metadata



Thammasat University Library Support of Academic Publishing through the Read & Publish Model

Kwanchanok Sathapornpiboon
Thammasat University Library

DOI: <https://doi.org/10.64798/tlbulletin.v69i1.283816>

Keywords: Academic publishing, Open Access, Thammasat University, Read & Publish

ABSTRACT

This study examines Thammasat University Library facilitation of academic publishing by adopting the Read & Publish model. It analyzes the library's support of instructors, researchers, and students to maximize benefits of the model. Recommendations and strategic guidelines are also provided to heighten the effectiveness of library services and ensure their continued relevance as academic publishing evolves.

During the first year of the program, Thammasat University authors published 10 articles. Of the available 186 publication tokens, 141 were used. According to terms of the scheme, the 45 unused tokens could not be carried over to the following year. To maximize token use and further promote benefits of this scheme, the Thammasat University Library will expand outreach efforts to inform more instructors and researchers about the opportunities provided by Read & Publish. The library should also organize more seminars on research support services, such as advanced literature search techniques; selecting suitable journals for publication; and citation and referencing methods.



[PDF](#)

PUBLISHED

2025-06-20

HOW TO CITE

Sathapornpiboon, K. (2025). Thammasat University Library Support of Academic Publishing through the Read & Publish Model. *T.L.A. Bulletin (Thai Library Association)*, 69(1), 178-189. <https://doi.org/10.64798/tlbulletin.v69i1.283816>

- Metadata
- Components
- Checklist
- Author Guidelines

Coverage
Coverage will typically indicate a work's spatial location (a place name or geographic coordinates), temporal period (a period label, date, or date range) or jurisdiction (such as a named administrative entity).
 Enable coverage metadata

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Language indicates the work's primary language using a language code ("en") with an optional country code ("en_US").
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There are 1,198 journals in Thai – Journal Citation Index.



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Government Catalog Portal

The Digital Government Development Agency (DGA)'s metadata focused on the Government Data Catalog for government data.

ฟิลด์	ค่า
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	Visualization
ยินยอมให้นำชื่อชุดข้อมูลไปใช้ที่ GD-Catalog	ยินยอม
ชื่อฝ่ายงานสำหรับติดต่อ	กลุ่มวิชาการสถิติและวางแผน
อีเมลสำหรับติดต่อ	saraban_lopburi@nso.mail.go.th
วัตถุประสงค์	พันธกิจหน่วยงาน
หน่วยความถี่ของการปรับปรุงข้อมูล	ครั้งปี
ค่าความถี่ของการปรับปรุงข้อมูล (ความถี่ที่น้อยที่สุด)	1
ขอบเขตเชิงภูมิศาสตร์หรือเชิงพื้นที่	ไม่มี
แหล่งที่มา	โครงการจัดทำระบบบัญชีข้อมูลภาครัฐระดับพื้นที่ (Government Data Catalog)
รูปแบบการเก็บข้อมูล	HTML
หมวดหมู่ข้อมูลตามธรรมชาติของข้อมูลภาครัฐ	ข้อมูลสาธารณะ
ระดับชั้นข้อมูล	
สัญญาอนุญาตให้ใช้ข้อมูล	License not specified
เงื่อนไขในการเข้าถึงข้อมูล	ไม่มี
ผู้สนับสนุนหรือผู้ร่วมดำเนินการ	
หน่วยที่ย่อยที่สุดของการจัดเก็บข้อมูล	
URL ข้อมูลเพิ่มเติม	https://app.powerbi.com/view?r=eyJrIjoieMGM2MDdiMzQtMWU4Zi00MjZmLTg3NGUtN2MxMjijOWZkZjNliiwidCI6ImY2NGQzMTgzLTc2OTEtNGZjYi1hNWVmLTMsZWJjMDgyYmZmOSIsImMiOjEwJmVwQ%3D%3D&pageName=ReportSection
ภาษาที่ใช้	ไทย

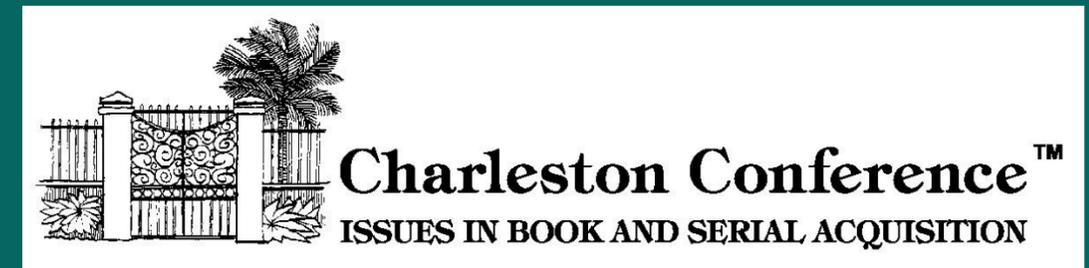
ชุดข้อมูล ค้นหาจากบัญชีหน่วยงาน หน่วยงาน กลุ่ม เกี่ยวกับ

ระบบบัญชีข้อมูลภาครัฐ

ค้นหาชุดข้อมูล... ค้นหาคำสำคัญในประโยค

แก้มาตรฐานบัญชีข้อมูลภาครัฐ : dashboard ชะมูลพลอย รายได้ แรงงาน
กิจกรรมทางเทคโนโลยี... ประชากรจากการทะเบียน

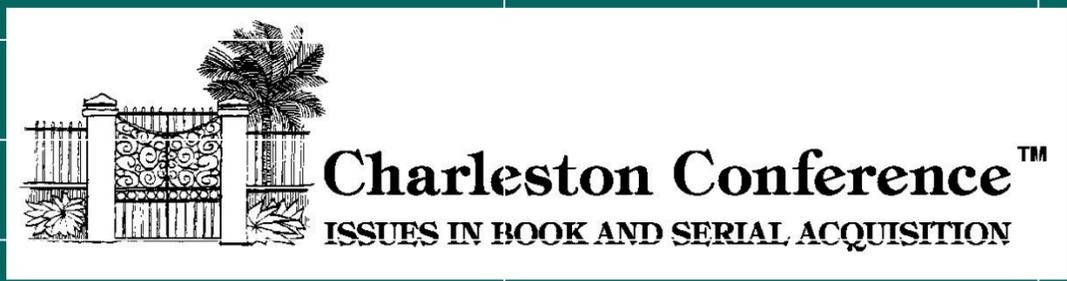
20,052 ชุดข้อมูล	301 หน่วยงาน	78 กลุ่ม	51,036 ทรัพยากร
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The importance of Metadata: This table shows different domains (Libraries, Archives, and Government) to speak the same language by mapping their specific fields to a common standard.

Core Element	Dublin Core (Digital/Web)	ISAD(G) (Archives)	DG Catalog (Gov/Open Data)	MARC 21 (Library)	Purpose in Sharing
Title	dc.title	3.1.2 Title	title	245 \$a	Identifying the resource
Identifier	dc.identifier	3.1.1 Ref Code	id / url	020/022/856	Creating a unique link
Creator	dc.creator	3.2.1 Name of Creator	maintainer	100/110 \$a	Assigning authorship/origin
Date	dc.date	3.1.3 Date(s)	issued / modified	260/264 \$c	Sorting by timeline
Description	dc.description	3.3.1 Scope & Content	description	520 \$a	Context for search engines
Subject	dc.subject	3.3.4 Index terms	tags	650 \$a	Discovery via keywords
Rights	dc.rights	3.4.1 Conditions/Access	license	506/540 \$a	Legal "Rules of Use"
Type/Format	dc.type	3.1.5 Level of Description	format	336/338	Determining how to open it

Thai academic communities and industrial society need to work closely to prioritize the DG Catalog Standard and to bridge identifiers for DOI or ORCID to prevent duplicate records, data sharing and reuse.



Open Metadata Utilization in Asia

A Case Study



Ms Guo Xiaofeng
Crossref Ambassador in Asia



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ISSUES IN BOOK AND SERIAL ACQUISITION

Primary Scholarly DOI Services Used in Asia

Chinese DOI 2007

1st Asian DOI RA, China, ISTIC & Wanfang Data
Literature & Science Data DOI

Ariti DOI 2010

Taiwan, Ariti, Literature DOI

JaIC 2012

Japan, JaIC (JST, NIMS, NII, NDL)
Literature, Research Data, e-Learning
Resources DOI

CNKI DOI 2013

China, CNKI, Literature DOI

KDC 2016

Korea, KISTI, Literature, IP, Science
Data, Universal Data DOI



Crossref 2000

24,000 organisational
members from **164** countries

- **50%** of members are based in Asia
- **40%** of members are universities or scholar-led

177 million open metadata records. Open API

- Literature, Preprints, Datasets, Funder & Grants.....
- Rich metadata support Research nexus vision

DataCite 2005

107 mil DOIs, 1710
members from 66
countries, Research Data,
Open metadata & API



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Usage of Crossref Metadata in Asia

Survey regions: Singapore, Malaysia, Mainland China, Hong Kong and Macau

Crossref member 760+

- 90%+ Publisher Members, almost all small/tiny ones
- 10%- Affiliates, university libraries, using OpenURL
- 10 Metadata Plus, technical companies in China
- No Affiliates in Malaysia, nor OpenURL/metadata service user



Open API Usage

- **2 billion** calls globally to our API every month by **0000s** (?) systems ingesting and reusing this open metadata
- **No** usage/traffic tracking to the public pool of the REST API



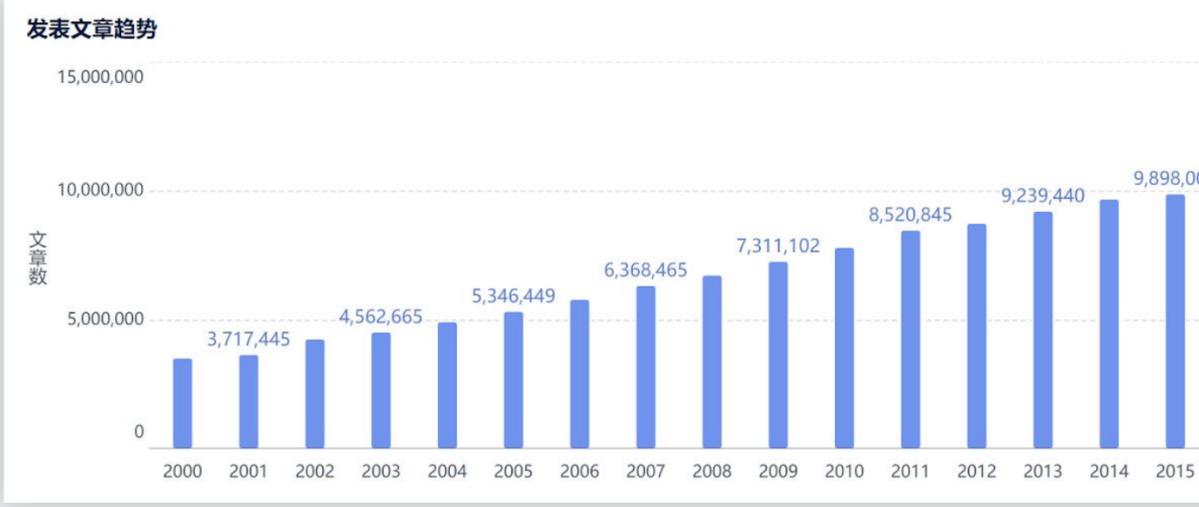
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Use Cases of Open Metadata

NSFC utilizes FLS and open metadata to retrieve outcomes funded by NSFC's grants, integrating them onto its NSFC platform for Open Access

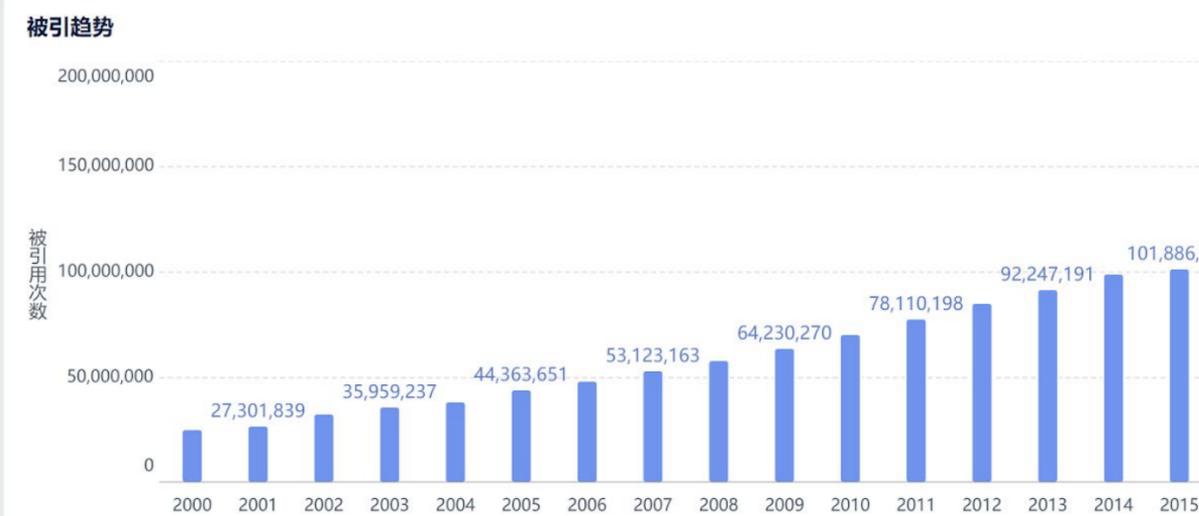
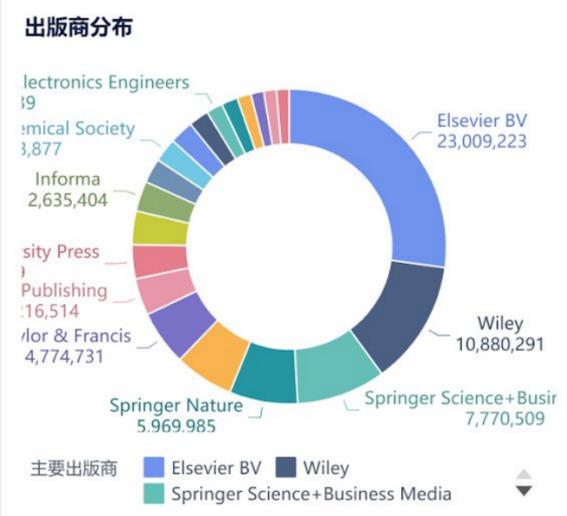


Crossref
Grant Linking
System



Open Metadata

Watch data, for real-time citation



✓ Transparency & Openness

- Data sources include Crossref, OpenCitations, Retraction Data, ORCID, ROR, and more
- All datasets are accessible under the CC BY license.

Thanks for listening!

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WhatsApp: +6585396887



Sin-Chn Scientific Press PTE LTD (Singapore)

URL: <https://doi.sin-chn.com>

Email: doi@sin-chn.com



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DISCUSSION

The importance of
metadata for Asian
scholarship



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Poll question

What's the biggest benefit of complete metadata?

Poll Results

- we will get information in one go
- Exchange
- Discoverability
- accurate data
- it increases the discovery and retrieval
- discoverability
- Accessibility
- Easy discovery to find the accurate information
- Improves discoverability
- accurate information
- exchange
- visibility
- value
- Accessibility to information resources.
- provide rich data and information

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Poll question

What are key challenges to adoption of rich metadata in your country/institution?



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