

DOI Outreach Seminar 2018 hosted by KISTI

Introduction to Japan Link Center (JaLC) and its strategy

November 30, 2018

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Japan Science and Technology Agency (JST)



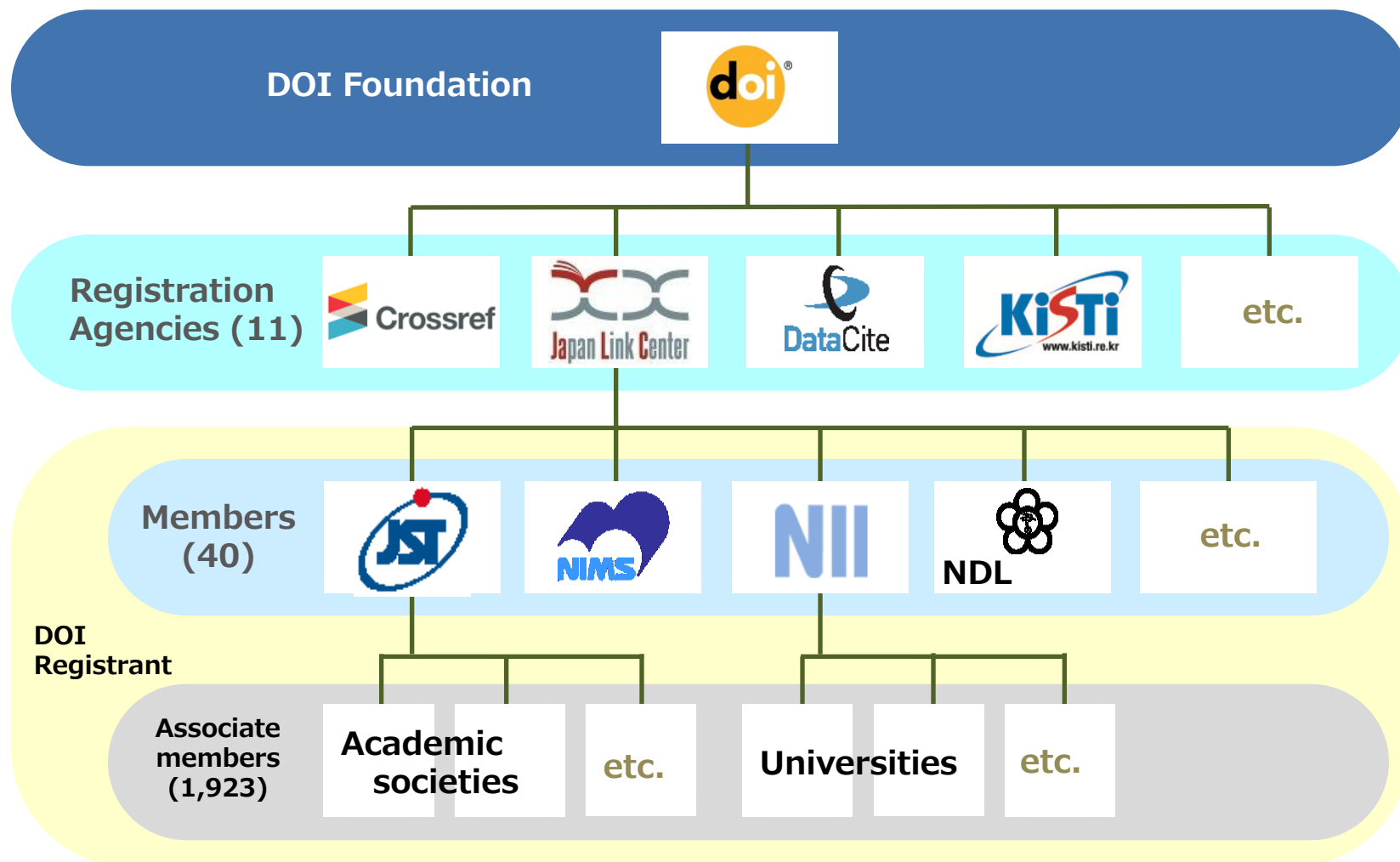
科学技術振興機構

Contents

1. Japan Link Center (JaLC) as a DOI Registration Agency
2. Current Situations of Japan Link Center (JaLC)
3. Japan Link Center – Strategy 2017-2022

1. Japan Link Center (JaLC) as DOI Registration Agency
2. Current Situations of Japan Link Center (JaLC)
3. Japan Link Center – Strategy 2017-2022

Organizational structure of DOI Registration



DOI Registration Agencies

			
Airiti, Inc.	Crossref	EIDR (Entertainment Identifier Registry)	ISTIC (The Institute of Scientific and Technical Information of China)
			
China National Knowledge Infrastructure (CNKI)	DataCite	JaLC (Japan Link Center)	mEDRA (Multilingual European DOI Registration Agency)
			
OP (Publications Office of the European Union)		KISTI(Korea Institute of Science and Technology Information)	
			
		CIIDRA(Construction Industry ID Registry Agency)	

DOI Registration Agencies

Contents
Category

			
Airiti, Inc.	Crossref	EIDR (Entertainment Identifier Registry)	ISTIC (The Institute of Scientific and Technical Information of China)
			
China National Knowledge Infrastructure (CNKI)	DataCite	JaLC (Japan Link Center)	mEDRA (Multilingual European DOI Registration Agency)
			
OP (Publications Office of the European Union)		KISTI(Korea Institute of Science and Technology Information)	
			
		CIIDRA(Construction Industry ID Registry Agency)	

DOI Registration Agencies

Regional RA

Taiwan

China



[Airiti, Inc.](#)

[Crossref](#)

[EIDR \(Entertainment Identifier Registry\)](#)

[ISTIC \(The Institute of Scientific and Technical Information of China\)](#)



Japan



Europe



[China National Knowledge Infrastructure \(CNKI\)](#)

[DataCite](#)

[JaLC \(Japan Link Center\)](#)

[mEDRA \(Multilingual European DOI Registration Agency\)](#)



Korea



[OP \(Publications Office of the European Union\)](#)

[KISTI \(Korea Institute of Science and Technology Information\)](#)



[CIIDRA \(Construction Industry ID Registry Agency\)](#)

DOI Community (DOI strategy meeting)

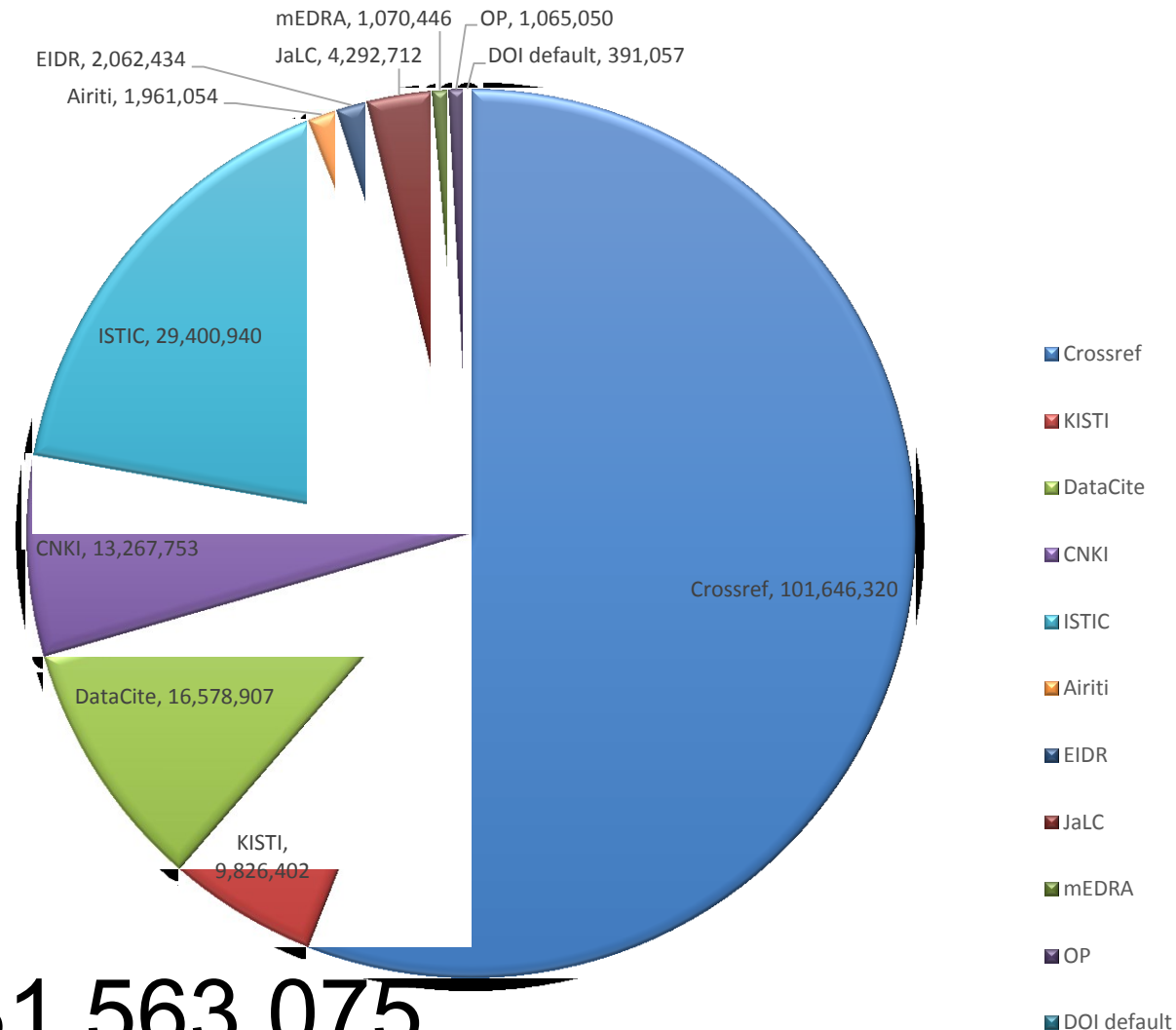


June, 2017 (Korea)

June, 2016 (UK)



Number of DOIs in the world (as of Oct. 30, 2018)



TOTAL: 181,563,075

1. Japan Link Center (JaLC) as DOI Registration Agency
2. Current Situations of Japan Link Center (JaLC)
3. Japan Link Center – Strategy 2017-2022

Summary of Japan Link Center (JaLC)



- Founded in March 2012
- Aimed to register DOIs for academic contents produced in Japan or in Japanese, to circulate information in Japan and overseas.
- Controlled by four national organizations:

- Japan Science and Technology Agency (JST) 
 - (has 1,544 associate members)
- National Institute for Materials Science (NIMS) 
- National Institute of Informatics (NII) 
 - (has 339 associate members)
- National Diet Library (NDL) 

- Operated by JS 
- Membership system
- 40 Regular members
(Academic societies, Publishers, University libraries, etc)
- External coordination

- JaLC is a member of  Crossref and  DataCite  arXiv  ite.



Current Situations of JaLC

■ Number of DOIs registration

FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
1,808,203	2,168,180	3,023,504	3,189,377	3,697,027	5,330,029

■ Content categories and the number of DOIs

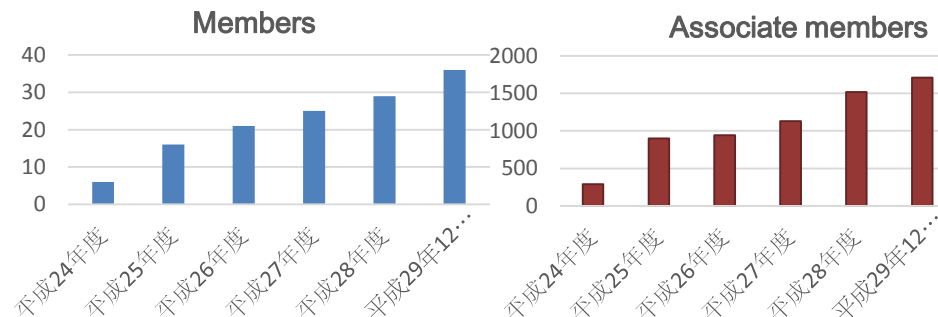
	FY 2014	FY 2015	FY 2016	FY 2017
Journal articles	2,789,095	2,937,916	3,410,477	4,941,494
Books & Reports	234,409	248,488	263,114	309,559
Research data	-	1,545	21,798	75,875
e-learning resources	-	1,427	1,628	1,891
Other contents	-	1	10	1,210

■ Numbers of DOIs in the world

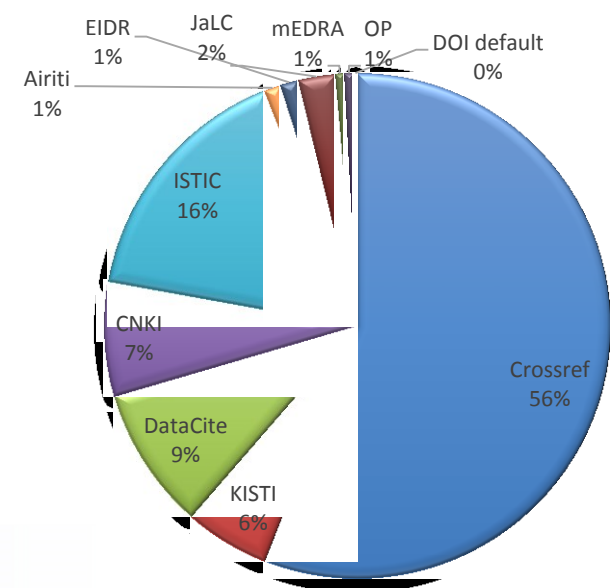
Number of Prefixes	Registration Agency	Deposits since last report (June 28, 2018)	Total DOIs as of Oct 30, 2018
2,023	Airiti	12,267	1,961,054
5,103	CNKI	355,295	13,267,753
12,427	CrossRef	2,817,041	101,646,320
2,454	DataCite	1,681,274	16,578,907
193	DOI Default*	18	391,057
36	EIDR	75,807	2,062,434
1,229	ISTIC	784,070	29,400,940
1,492	JaLC	1,103,684	4,292,712
99,933	KISTI	227,486	9,826,402
4,334	mEDRA	35,709	1,070,446
300	OP	9,021	1,065,050
129,524	TOTAL	7,101,672	181,563,075

出典：The international DOI foundation "Directory Manager Status Report"

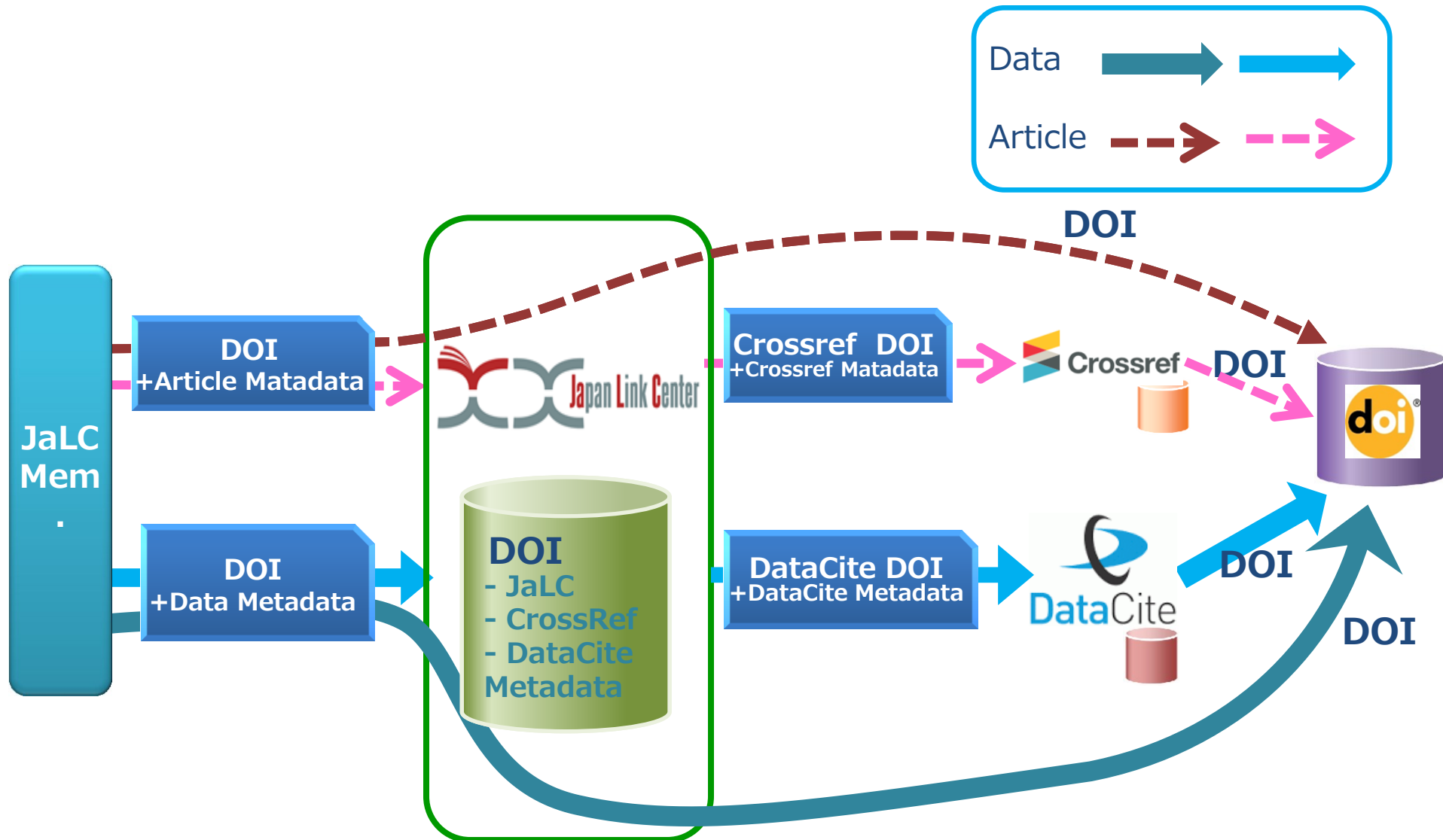
■ Number of JaLC Member



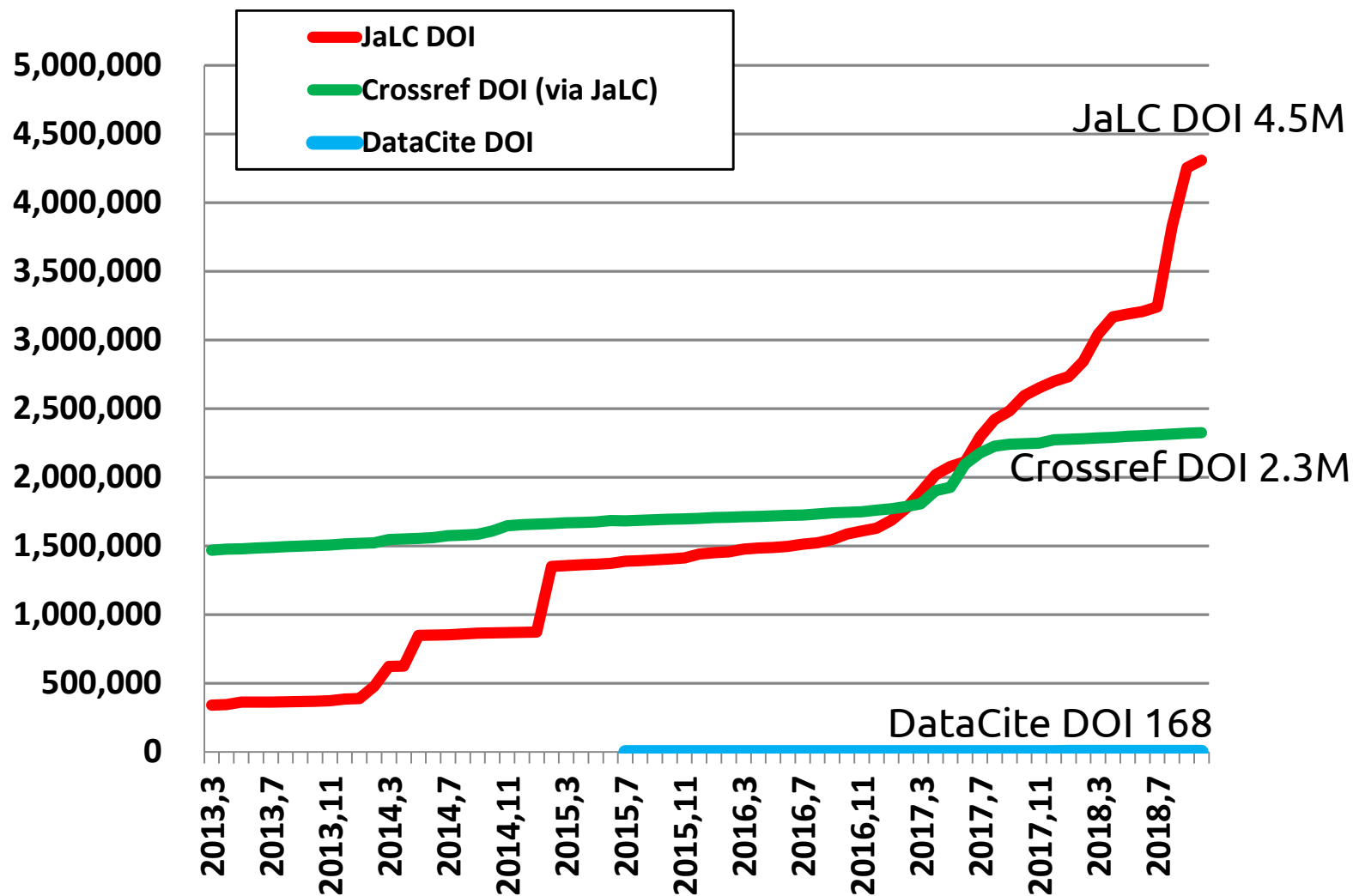
	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017
Members	6	16	21	25	29	37
Associate members	289	898	944	1,131	1,518	1,765



DOI registration flow



Change in the Number of DOIs (chronological)



Metadata Schema

Basic metadata:

DOI, URL, title, author(creator) information, affiliation, researcher id, publication date, publisher, edition, related contents, funder

No	Contents type	Additional Metadata	External Deposit
1	Journal Article	journal name, ISSN, volume, number, page, etc.	Crossref
2	Book	series title, chapter, ISBN, etc.	Crossref
3	Research Data	size, geolocation, rights, signature, etc.	DataCite
4	E-learning	learning resource type, rights, etc.	
5	Other	(basic metadata only)	

Example of DOI registration: Journal Articles

- J-STAGE: an electronic journal platform for science and technology information in Japan

<https://doi.org/10.1241/johokanri.60.447>


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Journal of Information Processing and Management
 Online ISSN : 1347-1597
 Print ISSN : 0021-7298

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[J-STAGE home](#) / [Journal of Information Process ...](#) / [Volume 60 \(2017-2018\) Issue 6](#) / [Article overview](#)

Meeting
DOI Outreach Seminar in Korea
 Yusuke YOGORO, Kenichi SUMIMOTO
 [+ Author information]

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2017 Volume 60 Issue 6 Pages 447-449
 DOI <https://doi.org/10.1241/johokanri.60.447>

Details

- Published: September 01, 2017
- Released on J-STAGE: September 01, 2017
- [Advance Publication] Released: -
- Received: -
- Accepted: -
- Revised: -

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集會報告
 韓国DOIアウトリーチセミナー
 開催日 2017年6月15日(木)
 開催場所 The Korea Chamber of Commerce & Industry(韓国・ソウル)
 主催 国研DOI財団
 情報管理 2017, vol. 60, no. 6, p. 447-449, doi: <https://doi.org/10.1241/johokanri.60.447>



図1 DOI Outreach Seminar in Koreaの看板



図2 会場の様子

1. はじめに

国際DOI財団 (International DOI Foundation: IDF) では、DOI (Digital Object Identifier) 普及のため、世界各地でアウトリーチのイベントを開催している。2013年にはAris社と中国科学技術情報研究所 (ISTIC) のホストにより台湾と中国で、2014年にI4mEDRA (multilingual European DOI Registration Agency) のホストによりイタリアで¹⁾、2015年にはJALC (Japan Link Center) のホストにより日本で開催している²⁾。この度、2016年1月1日に韓国科学技術情報研究所 (KISTI) がDOI登録機関となり、Korea DOI Centerのサービスを開始したことを契機に、KISTIは、韓国内の学術コミュニティへのDOIの広報を目的として、DOI Outreach Seminar in Korea (図1) を開催した。

韓国の学会などから300名を超える参加があり、担当者の予想を大きく上回る大盛況であった (図2)。

2. 外国のDOI登録機関等からのプレゼンテーション

IDFのManaging AgentであるJonathan Clark氏からのDOI全般に関する説明に続いて、DONAのChristophe Bianchi氏、DataCiteのMartin Fenner氏、CrossrefのEd Pentz氏、ISTICのGuo Xiaofeng氏からそれぞれ15分ずつ、各機関の取り組みについて説明があった。以下では、その要旨 (DOIシステムの一般論は紙面の都合上、他の機会に譲る) を簡潔にまとめる。

IDFから、DOIの最も重要な特徴である持続性は、データベース、プロキシ等の技術的インフラと、DOI登録機関による業務の履行等の社会的インフラとから成り立っているとの説明があった。DOIの持

続性はシステムによってだけでなく人によって支えられている、というこのメッセージは印象的だった。DataCiteは、メタデータの露出を高めることにより、データセンターとデータを引用する研究者とのギャップを埋めることに注力している。そのため、DataCiteではメタデータ検索機能の充実を図っている。また、CrossrefとDataCiteとでEvent Dataというサービスを行っており、論文と研究データの引用関係の収束に力を入れている。具体的に、DataCiteメタデータの中の論文へのリンク情報には

情報管理 2017.9, vol. 60 no. 6 447

Example of DOI registration: Doctoral Thesis

- Institutional Repository: Chiba University Repository

<https://doi.org/10.20776/104550>



CHIBA UNIVERSITY REPOSITORY
 for Access to Outcomes from Research

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[前のレコード](#)
[次のレコード](#)

本文ファイル

ファイル	フォーマット	サイズ	閲覧回数	説明
TLA_0277	pdf	2.72 MB	30	本文 = dissertation

基本情報

タイトル	ホログラフィを用いた映像投影システムの画質改善および計測システムの検出精度向上に関する研究
作成者	根尾, 敦
作成者の別表記	NEO, Atsushi
内容	研究科: 千葉大学大学院工学研究科 (人工システム科学専攻) 学位記番号: 千大院工博甲第工277号
ハンドルURL	http://opac.ll.chiba-u.jp/da/curator/104550/
フルテキストへのリンク	http://opac.ll.chiba-u.jp/da/curator/104550/TLA_0277.pdf
NII資源タイプ	学位論文
刊行年月	2017-09-30
selfDOI	<u>10.20776/104550</u>
若者版フラグ	ETD

Example of DOI registration: Classical Documents

- Digital Collection: National Diet Library

<https://doi.org/10.11501/1287166>



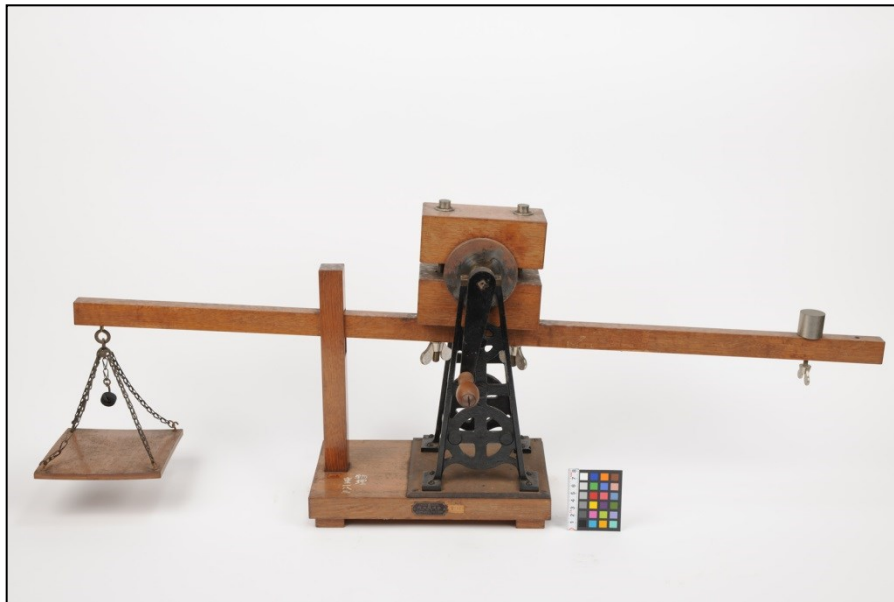
The screenshot displays the National Diet Library Digital Collection interface. The main content area shows a classical Japanese woodblock print illustration of a scene with several figures in a room. The left sidebar contains metadata for the document, including the title '竹取物語. 下' (Takekagami Monogatari. Lower Part) and the DOI '10.11501/1287166', which is highlighted with a red box. The top navigation bar includes a language dropdown set to '日本語' (Japanese) and a search icon. The bottom of the page features a copyright notice: 'Copyright © 2011 National Diet Library. All Rights Reserved.' and a link to the 'サイトポリシー' (Site Policy).

DOIs are registered so that everyone can stably reach the image of the work that is the basis of the thesis of the humanities.

Example of DOI registration: Historical Material

- Re*poN (Academic Repository Network)

<https://doi.org/10.18876/00000167>



Example of DOI registration: Research Data

■ DIAS

<https://doi.org/10.20783/DIAS.523>



データ俯瞰・検索システム
Dataset Search and Discovery

日本語

Home How to use About

S14 global meteorological forcing dataset

Data File Download
with DIAS data download system






The citation for this dataset is:

Toshichika Iizumi. (2017). *S14 global meteorological forcing dataset* [Data set]. Data Integration and Analysis System (DIAS). <https://doi.org/10.20783/DIAS.523>

Select citation format: APA

IDENTIFICATION INFORMATION

Name	S14 global meteorological forcing dataset
DOI	doi:10.20783/DIAS.523
Metadata Identifier	S14FD20180508151040-DIAS20170725102541-en

CONTACT

CONTACT on DATASET

ological forcing dataset (S14FD) offers daily data of 11 climatic variables over the globe from the sea and Antarctica are not bias-corrected (i.e., the raw data of the JRA-55 reanalysis were the land are bias-corrected. Variables include daily mean 2m air temperature (tave2m, °C), daily re (tmax2m, °C), daily minimum 2m air temperature (tmin2m, °C), daily total precipitation an downward shortwave radiation flux (dswrfsfc, W m⁻²), daily mean downward longwave radiation mean 2m relative humidity (rh2m, %), daily mean 2m specific humidity (spfh2m, kg kg⁻¹), daily p2m, hPa), daily mean 10m wind speed (wind10m, m s⁻¹) and daily mean surface pressure

here

8-01-01
3-12-31
y

Dimension Size (slice number of the dimension)	Resolution Unit
0	0.5 (deg)
0	0.5 (deg)
1	1 (level)

Keywords

Keywords on Dataset

Example of DOI registration: e-learning materials

■ Database Center for Life Science (DBCLS)

<https://doi.org/10.7875/togotv.2016.068>


生命科学系DB・ツール使い倒し系チャンネル

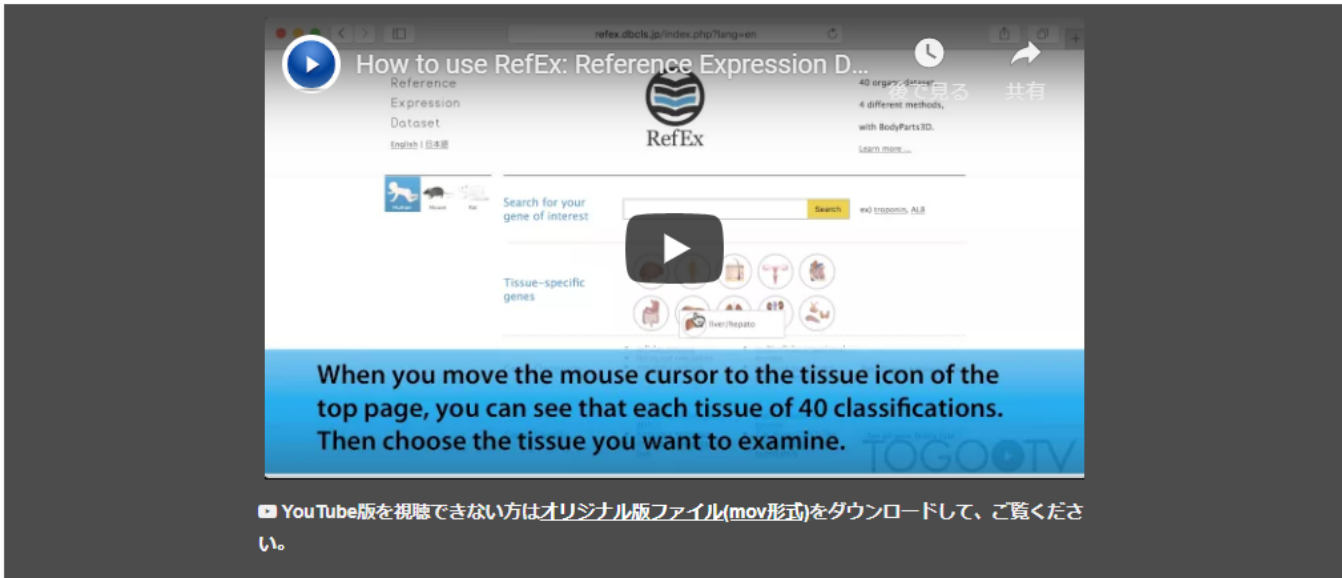
はじめての方へ
再生数ランキング
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『統合TV』は、生命科学分野の有用なデータベースやツールの使い方を動画で紹介するウェブサイトです。

目的別に検索

- 講習会 実習資料 (AJACS)
- ゲノム・核酸 配列解析
- タンパク質 配列・構造解析
- 発現制御解析・可視化
- 文献・辞書・プログラミング
- 著名データベース
- その他講演・講習会
- 自由に使える画像を探す

2016-04-25 How to use RefEx: Reference Expression Dataset



Example of DOI registration: Presentations

■ Humanities research Data Repository

<https://doi.org/10.20676/00000314>

インデックス

[CODHセミナー](#) ▶ [第4回CODHセミナー](#)

Permalink : <http://doi.org/10.20676/00000314>


慶應義塾大学メディアセンターでのIIIFへの取組み

[利用統計を見る](#)

File / Name	License
IIIF_DH  IIIF_DH_(24.18MB) [170 downloads]	 Creative Commons : 表示







JaLC DOI	info:doi/10.20676/00000314
アイテムタイプ	会議発表用資料 / Presentation
言語	日本語
著者	入江 伸 / イリエ シン (CiNii ID: 9000004447600)
関連サイト	慶應義塾大学メディアセンターデジタルコレクション

■ OAI-PMH (JaLC member only)

Query:
https://japanlinkcenter.org/data/[DOI]



- Multiple resolution

A	B	C	D	E	F	G	H	I	J
IP Address	Protocol	Date/Time	Response Time	Resolved Handle	Admin ID	Referer URL			
150.99.191.178	HTTP/HTML	2014-09-01-08:12:43.082	177ms	10.11218/shznj1959267.789	200.0NA/10.11218	http://csicmic.jp/raid/180064			
202.219.76.78	HTTP/HTML	2014-09-01-08:19:57.615	18ms	10.11218/omniscia.50.3255	200.0NA/10.11218	http://csicmic.jp/raid/180064			
202.248.102.102	HTTP/HTML	2014-09-01-08:21:11.212	252ms	10.11538/1/19384.8001	200.0NA/10.11538	http://csicmic.jp/raid/180064			
114.179.68.26	HTTP/HTML	2014-09-01-08:21:11.5012	298ms	10.11522/psjcs.2011A.1058	200.0NA/10.11522	http://csicmic.jp/raid/180064			
153.191.254.282	HTTP/HTML	2014-09-01-08:21:42.54682	184ms	10.11227/ekshio.50.147	200.0NA/10.11227	http://www.vhbt.esy.es/raid/180064			
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119.21.97.324	HTTP/HTML	2014-09-01-08:23:40.24382	178ms	10.11218/omniscia.50.3255	200.0NA/10.11218	http://csicmic.jp/raid/180064			
149.123.121.44	HTTP/HTML	2014-09-01-08:24:25.75862	218ms	10.11522/psjcs.2011A.1058	200.0NA/10.11522	http://www.google.co.jp/raid/180064			
150.93.105.155	HTTP/HTML	2014-09-01-08:25:23.882	184ms	10.11207/ekshio.50.147	200.0NA/10.11207	http://www.google.co.jp/raid/180064			
165.85.113.234	HTTP/HTML	2014-09-01-08:25:55.762	19ms	10.11522/psjcs.2011A.1058	200.0NA/10.11522	http://www.google.co.jp/raid/180064			
58.191.147.30	HTTP/HTML	2014-09-01-08:26:37.26782	203ms	10.11522/psjcs.2011A.1058	200.0NA/10.11522	http://csicmic.jp/raid/180064			
115.175.209.29	HTTP/HTML	2014-09-01-08:26:59.1862	219ms	10.11227/ekshio.50.147	200.0NA/10.11227	http://www.vhbt.esy.es/raid/180064			
124.230.131.18	HTTP/HTML	2014-09-01-08:28:19.3482	172ms	10.11439/psjcs.2011A.115	200.0NA/10.11439	http://csicmic.jp/raid/180064			
124.330.240.102	HTTP/HTML	2014-09-01-08:27:34.02382	184ms	10.11286/psjcs.2011A.1058	200.0NA/10.11286	http://csicmic.jp/raid/180064			
160.252.85.19	HTTP/HTML	2014-09-01-08:28:45.9582	210ms	10.11218/omniscia.50.3255	200.0NA/10.11218	http://csicmic.jp/raid/180064			
160.252.85.19	HTTP/HTML	2014-09-01-08:28:21.18462	92ms	10.11218/omniscia.50.3255	200.0NA/10.11218	http://csicmic.jp/raid/180064			
150.93.105.155	HTTP/HTML	2014-09-01-08:28:47.4722	1ms	10.11544/psjcs.2011A.115	200.0NA/10.11544	http://csicmic.jp/raid/180064			
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182.48.148.197	HTTP/HTML	2014-09-01-08:31:18.5122	270ms	10.11446/psjcs.2011A.115	200.0NA/10.11446	http://csicmic.jp/raid/180064			
182.47.102.102	HTTP/HTML	2014-09-01-08:31:27.4482	274ms	10.11538/1/19384.8001	200.0NA/10.11538	http://csicmic.jp/raid/180064			
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131.31.85.9	HTTP/HTML	2014-09-01-08:31:27.4482	0ms	10.11394/psjcs.2011A.115	200.0NA/10.11394	http://www.google.co.jp/raid/180064			

■ DOI : 10.1501/3185363

登録館名

1 国立国会図書館 / National Diet Library

2 機関リポジトリ / Institutional Repository

■ タイトル情報

タイトル

タイトル記述言語

■ 著者等名情報

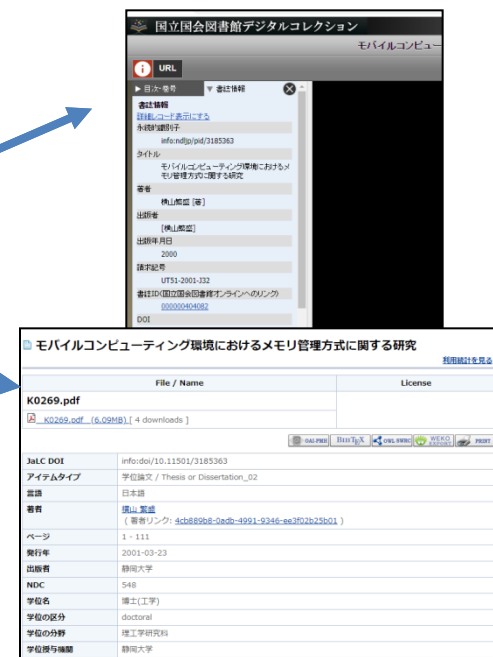
著者名(姓)

著者名(名)

著者等名記述言語

横山 悠寛

現在はまだ日本語不明



JaLC Community

JaLC has developed DOI community in Japan and always co-creating new services with JaLC members.



1. Japan Link Center (JaLC) as DOI Registration Agency
2. Current Situations of Japan Link Center (JaLC)
3. Japan Link Center – Strategy 2017-2022

Japan Link Center – Strategy 2017-2022

- JaLC has developed strategy in 2016.

https://japanlinkcenter.org/top/doc/JaLC_strategy2017en.pdf

Japan Link Center – Strategy 2017-2022



**Connecting Japan
~Lasting Access~**

Providing open, sustainable access to academic information together with researchers, research institutes, librarians, libraries, publishers, educators, educational bodies, IT engineers, information service providers, research funding agencies, academic groups and others.

Japan Link Center 5 Strategies

- Promote open use of DOI and metadata.
- Develop an environment for registering DOI which while retaining international coordination makes full use of a diversity of Japanese academic resources, academic environment, and language.
- Build an environment for assigning IDs to a variety of resources needed in academia.
- Promote the use of research data and contribute to implementing Open Science.
- Contribute to fostering communities.

Five steps to realizing the Japan Link Center strategy

- 1. Enabling DOI registration in diverse resources used by researchers.**

It is intended to add research resources as needed, including real resources such as experiment samples, to the present DOI information resources with its registration of publications, papers, research data, e-learning teaching resources, and other information resources. In this way, real resources can be referred to in papers, and a contribution made to improve the wider use of research results.

As a first step toward this, research is being done into what resources are needed by researchers, and guidelines are being made for registering DOI in them.

- 2. Working at providing coordination with external agency metadata, enhancement of metadata search function, and informing the level of DOI use.**

This involves creating an environment enabling the use of JaLC metadata for various services, and contributing to promoting the circulation of contents. Also, data is being provided relating to the level of DOI use.

The search function for metadata is being enhanced by commencing a search service allowing general users to utilize the search function for DOI and metadata. Also, JaLC will open its metadata to the general public in batch files, and will provide an opportunity to use JaLC metadata in various forms.

In order to inform the level of DOI use, a method will be provided to JaLC members allowing them to find out usage statistics for registered DOI and the level of citation.
- 3. Strengthening coordination with other ID services involved in research, as global research IT infrastructure.**

We will contribute to developing a better research infrastructure by continuing DOI related services as mainstays and through coordination with other document ID, researcher ID, and institution ID services.

As a first step, coordination with ORCID will be strengthened for JaLC DOI registered contents.
- 4. Constructing a flexible service development system responsive to changes in the research environment.**

A service is being developed together with the stakeholders, capable of swift adaption to changes in the research environment. JaLC will take responsibility for development of the central section of the system to create the service, and the application and development section will be constructed around a system capable of development in cooperation with the stakeholders, using a proposal style model.
- 5. Aiming at fostering a wide community including researchers, research institutes, librarians, libraries, publishers, educators, educational bodies, IT engineers, information service providers, research funding agencies, academic groups and others.**

We will encourage communication to spread DOI throughout Japan, and will promote spontaneous research activity through fostering a community.

With that purpose an annual meeting for discussion and support will be held. Also, in order to discuss research information within a wider framework, we will enhance a research data use conference and aim at forming a nucleus for Open Science in Japan.

Japan Link Center – Strategy 2017-2022

Connecting Japan
~ Lasting Access ~

<Japan Link Center 5 Strategies>

1. Promote open use of DOI and metadata.
2. Develop an environment for registering DOI which while retaining international coordination makes full use of a diversity of Japanese academic resources, academic environment, and language.
3. Build an environment for assigning IDs to a variety of resources needed in academia.
4. Promote the use of research data and contribute to implementing Open Science.
5. Contribute to fostering communities.

Five Actions to realizing the Japan Link Center strategy

- I. Enabling DOI registration in diverse resources used by researchers.
- II. Working at providing coordination with external agency metadata, enhancement of metadata search function, and informing the level of DOI use.
- III. Strengthening coordination with other ID services involved in research, as global research IT infrastructure.
- IV. Constructing a flexible service development system responsive to changes in the research environment.
- V. Aiming at fostering a wide community including researchers, research institutes, librarians, libraries, publishers, educators, educational bodies, IT engineers, information service providers, research funding agencies, academic groups and others.

Action 1

1. Enabling DOI registration in diverse resources used by researchers.

□ e-book, government publication:



□ Digital contents, research data



□ Physical objects(laboratory instrument, research sample, software)



coordination with external agency



JDJDインターナショナル学会

DOI登録数 H30年8月末時点

使用サイトID SI/xxxx

DOI-15 DL

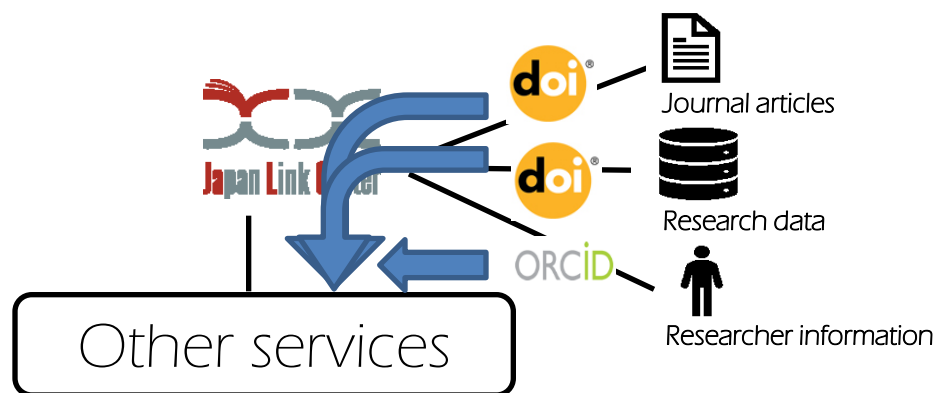
被引用数 3 ♥

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(accessed 2017-5-20)

H29年度 年会費請求書

Action 3

3. Strengthening coordination with other ID services involved in research, as global research IT infrastructure.

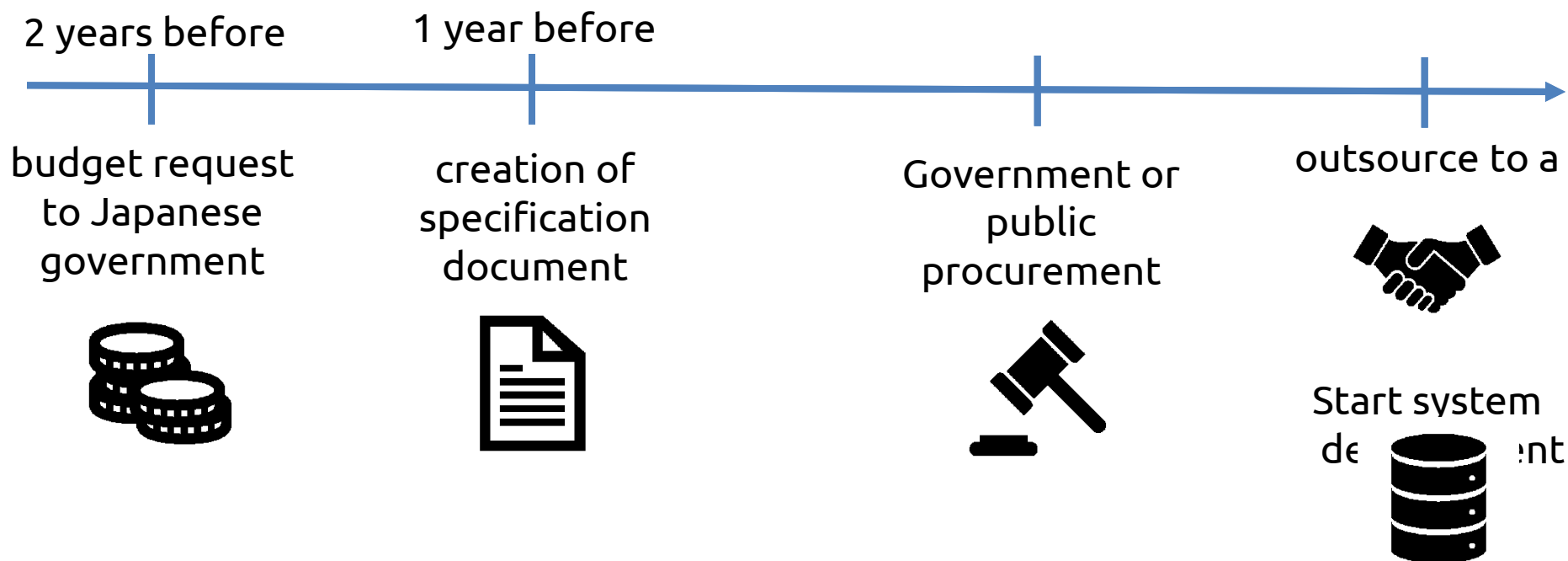


Action 4

4. Constructing a flexible service development system responsive to changes in the research environment.



Currently it takes long time.



Actions 5

5. Aiming at fostering a wide community including researchers, research institutes, librarians, libraries, publishers, educators, educational bodies, IT engineers, information service providers, research funding agencies, academic groups and others.



<JaLC community>

Information exchange beyond the boundaries of research fields



감사합니다.
Thank you very much.

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