Expanding the content categories at JaLC

Hideaki Takeda
Chair, Joint Steering Committee
Japan Link Center (JaLC)



http://japanlinkcenter.org/

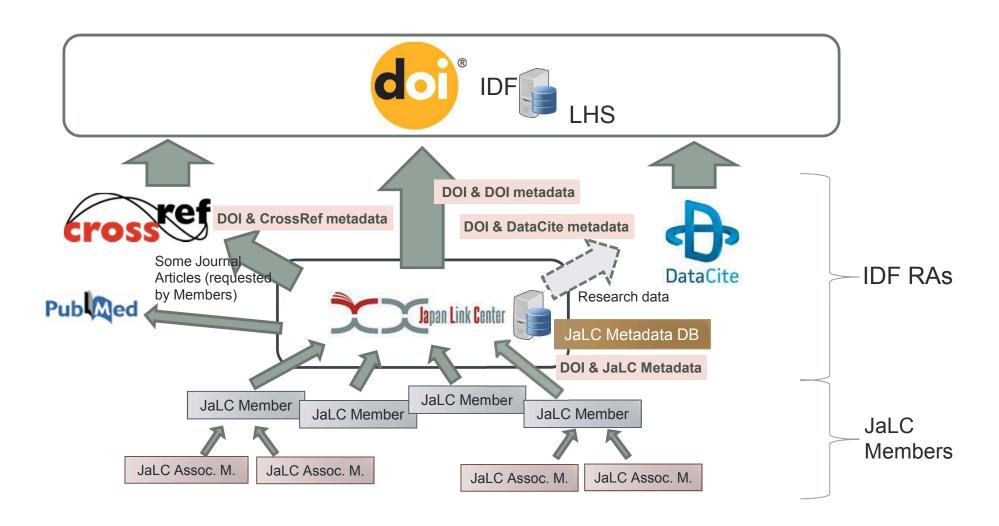
Contributor: Ritsuko Nakajima, Takafumi Kato, Japan Science and Technology Agency (JST)

Japan Link Center (JaLC)

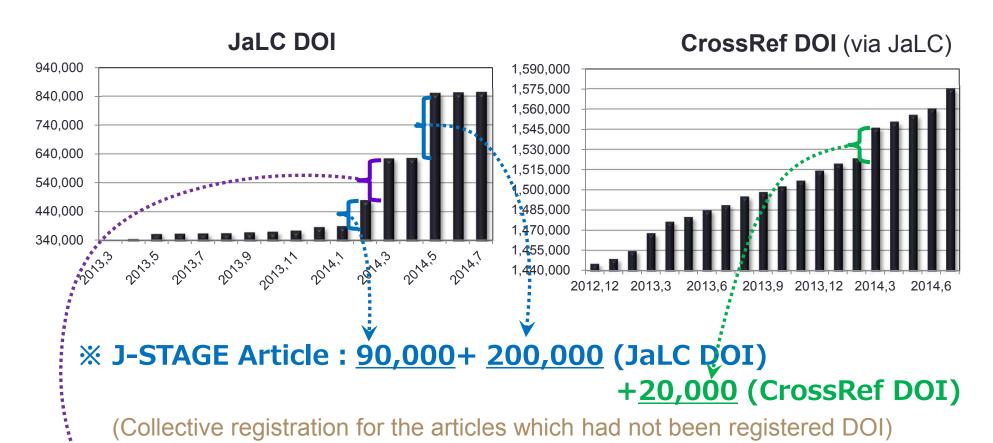
- Founded in March 2012
- Aimed to register DOIs for academic contents produced in Japan or in Japanese, to circulate information in Japan and overseas.
- Controlled by four national organizations:
 - Japan Science and Technology Agency (JST) (has 915 associate members)
 - ➤ National Institute for Materials Science (NIMS)
 - National Institute of Informatics (NII)(will have about 1,000 associate members)
 - ➤ National Diet Library (NDL)
- Operated by JST
- Membership system
 - 19 Regular members (Academic societies, Publishers, University libraries, etc)
- External coordination

JaLC is a member of CrossRef and DataCite(Mar. 2014)

Registration of DOI via JaLC



Number of DOIs



%National Diet Library's Doctoral Thesis: 140,000

Total amount of DOIs: 2,427,391 (at the end of July 2014)

Upcoming features

JaLC will release new features in December 2014.

a. More content categories

Expanded to research data and books etc. besides journal articles.

JaLC will collaborate with DataCite in registering DOI for research data.

b. Edition information

Variation: publication version, author's version, ...

Version: 1.0, 2.1, ... Format: XML, PDF, ...

c. Multiple resolution

Identical contents are resolved into original sites, archive sites and distributers' sites.

d. Researcher identifiers

ORCID, KAKEN ID, NDL authority ID are included in JaLC's deposit schema.

Ex. of application: Send pairs of ORCID and DOI to ORCID system so that corresponding articles will be suggested as research results on ORCID service.

e. Linked data

Metadata are provided as linked data.

Content categories

Category	
Journal articles	
Journal articles	Dec.2012 -
University bulletins	Sep.2014 -
Conference proceedings	Mar.2012 -
Books	
Books	Jan.2015 -
Doctoral theses	Mar.2014 -
Reports	
Technical reports	Jan.2015 -
Governmental reports	Jan.2015 -
Research data	Jan.2015 -
e-learning resources	Jan.2015 -

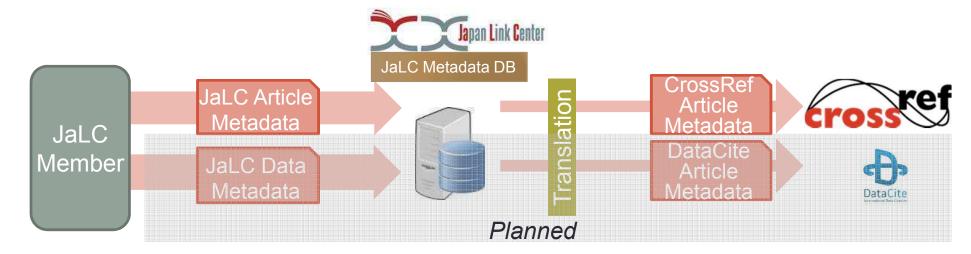
Metadata

These properties are unified among the types

Basic metadata:

DOI, URL, title, author 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, title, 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)	



Metadata (common)

1 ro	pot	0	1				
2	head		1				
3	error_process	0	1				
4	result_method	0	1				
_		0	1				
6	content_classification	$\stackrel{\circ}{\sim}$	1				
<u> </u>	request_kind		1				
	body	<u> </u>	1				
8	site_id	0	1	1-24-		-	
8 9 10 11 12 13 14 15 16 17 18	content35	public	cation _date			0	1
0	sequence 36		ar			0	1
1	doi 37		onth				0-
2	url 38	da					0-
3	39	publis				0	1
4	1 1	pu	blisher_name	ī	100000淮柳	0	1
-				lang	ISO639準拠		0-
3			cation				
6	title						0-
17	subtitle						
8	creator_list 43	editio	n .				0-
19	creator 44		riation			Δ※2	0-
20	sequence 45		rsion			∆ ※ 2	0-
21	type person 46		rmat			∆※2	0-
- · ·	institute 47	relati	on_list				0-
22	48		lated_content			0	1-1
23	lang ISO639準			type	DOI URL	0	1
24	last_name 50			relation	JUKL	0	1
25	first_name 51	alter	nate_identifier	relation			0-
26			na to_lactritine	type		0	1
	prenz	conte	ent_language	1-24-0			0-
27		fund_					0-
28	affiliation 55	fu				0	1-1
29	affiliation_name 56		funder_name	72		0	1
30	sequence 57			lang	ISO639準拠	<u>∆</u> ※1	0-
31	lang ISO639準 58		funder_identifier				0-
32	researcher id 59			type	FundRef		0-
33	60		award_number				0-1
00		multi	ple_resolution_priorit	у		1	0

XML(RDF)

			attribute		
No	Name	mandatory	name	value	
1	xml	0			
2	rdf:RDF	0	xmlns:rdf	http://www.w3.org/1999/02/22-rdf-syntax-ns#	
3			xmlns:dc	"http://purl.org/dc/elements/1.1/"	
4			xmlns:owl	http://www.w3.org/2002/07/owl#	
5			xmlns:foaf	"http://xmlns.com/foaf/0.1/"	
6			xmlns:prism	"http://prismstandard.org/namespaces/basic/2.0/"	
7	rdf:Description	0	rdf:about	"http://dx.doi.org/"+"DOI"	
8	prism:doi	0			
9	dc:title				
10	dc:creator				
11	foaf:Person	0			
12	foaf:name				
13	foaf:familyName				
14	foaf:givenName				
15	dc:publisher	0			
16	dc:date	0	rdf:resource	"http://www.w3.org/2001/XMLSchema#date"	
17	prism:volume				
18	prism:startingPage				
19	prism:endingPage				
20	dcterms:i <u>sPartOf</u>				
21	owl:Class	0	rdf:about	"Journal"	
22	prism:issn				
23	<u>owl:sameAs</u>				
24	dc:title				

There's a possibility that this XML will change.

Experiment Project to register DOIs for Research Data

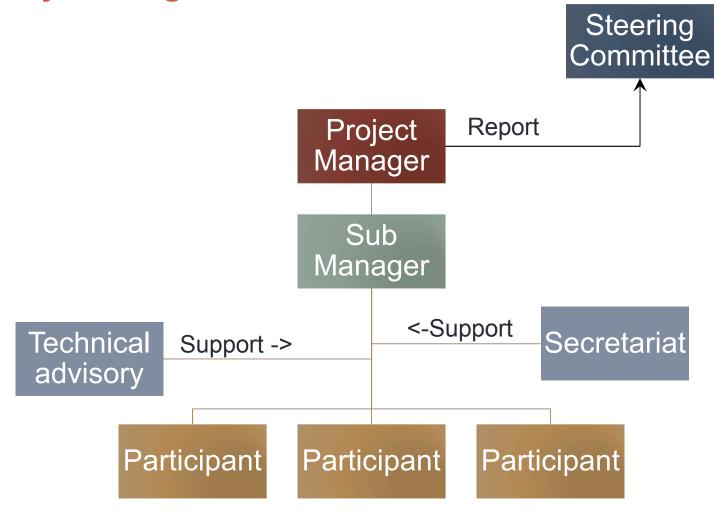
Goal

 Establish operation flows to register DOIs for research data and have stable operation

Objectives

- Set policies in registering DOIs for research data
- Establish operation flows to register DOIs for research data with the next version of JaLC system. Ensure that by performing registration tests

Project Organization



Participants are supposed to be research institutes, universities, etc. and chosen by public invitation.

Examples of subjects to be examined

- Flow of operations
 - In case a regular member deposits only its data
 - In case a regular member deposits their data and the associate members' data together
- Persistent access
 - Can time-limited projects participate? Who will ensure the persistency of the data?

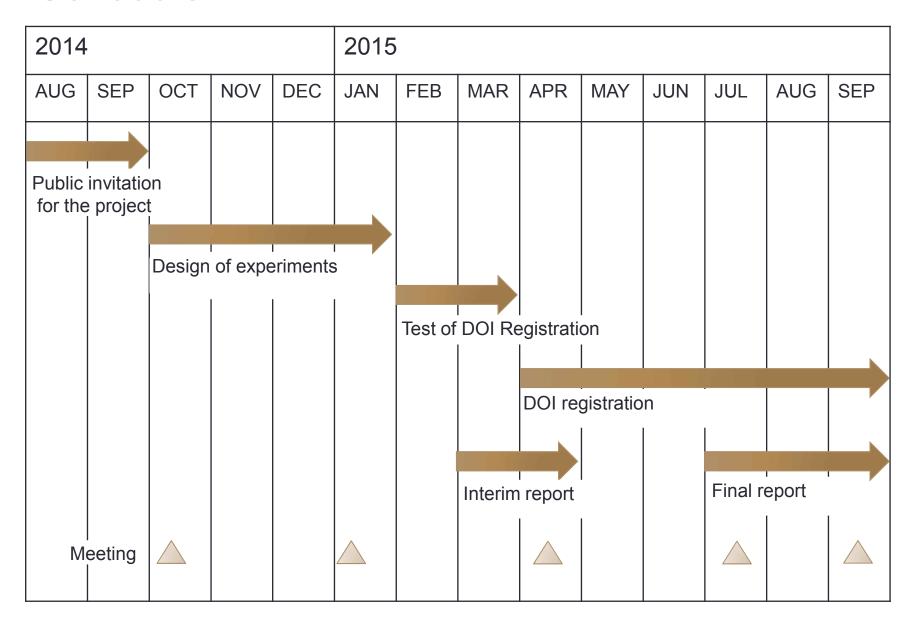
(ex.)

- √ The representative institute takes over all of the data
- Registering DOIs only for data managed by real organizations among the members of the project
- Granularity of registration

Examples of subjects to be examined (cont'd)

- Landing page
 - Metadata description page/file/...
 - For open/closed data
- Other operations
 - Adding data after registration of DOI
 - Registering DOI for a large amount of data
- Application
 - Citing DOIs for research data
 - Developing other applications

Schedule



Multiple resolution

<Deposit>
DOI, URL(A), other metadata and
multiple resolution priority number [a]

Member A

Member B

<Deposit>
DOI, URL(B), other metadata and
multiple resolution priority number [b]

JaLC

When JaLC detects the same DOIs deposited with multiple resolution priority number by different members, the multiple resolution function works.

JaLC multiple resolution works only among JaLC DOIs. CrossRef's DOIs are out of coverage.

Summary

- JaLC is established to enhance scientific communication with DOI
 - Ideally support all activities by researchers
- JaLC started service for journal articles, then will extend it for books, e-learning, and data.
- Need of knowledge and experience about data registration
 - Start the experiment in Fall.
 - Need for collaboration and coordination with DataCite

Thank you!

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