SPARC Japan International Scholarly Communication Initiative

SPARC : Scholarly Publishing and Academic Resources Coalition

Open Access Korea Conference 2011
KISTI, Seoul, Korea

Open Access in Japan:

2011 Updates

26 October 2011

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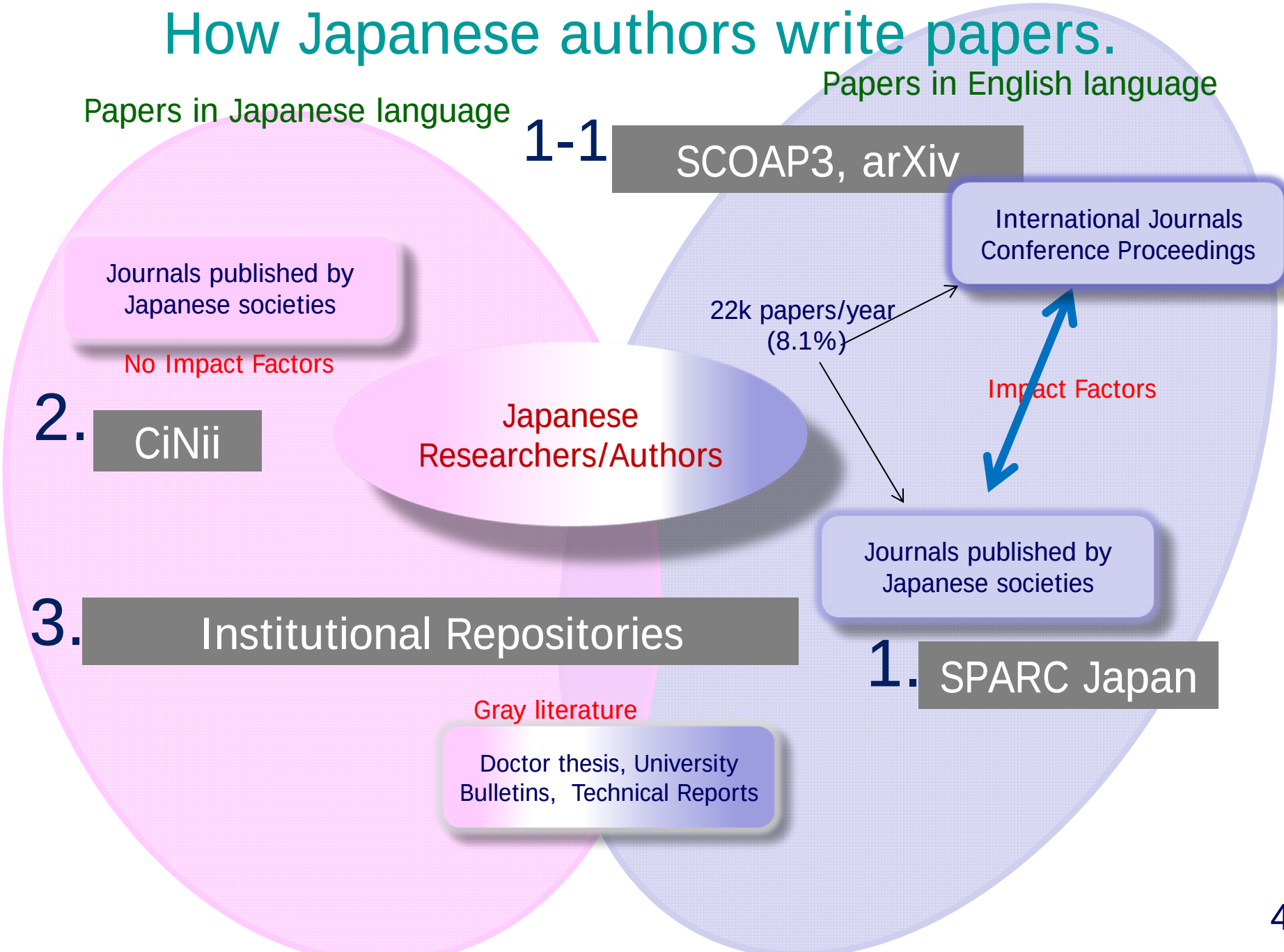
Outline

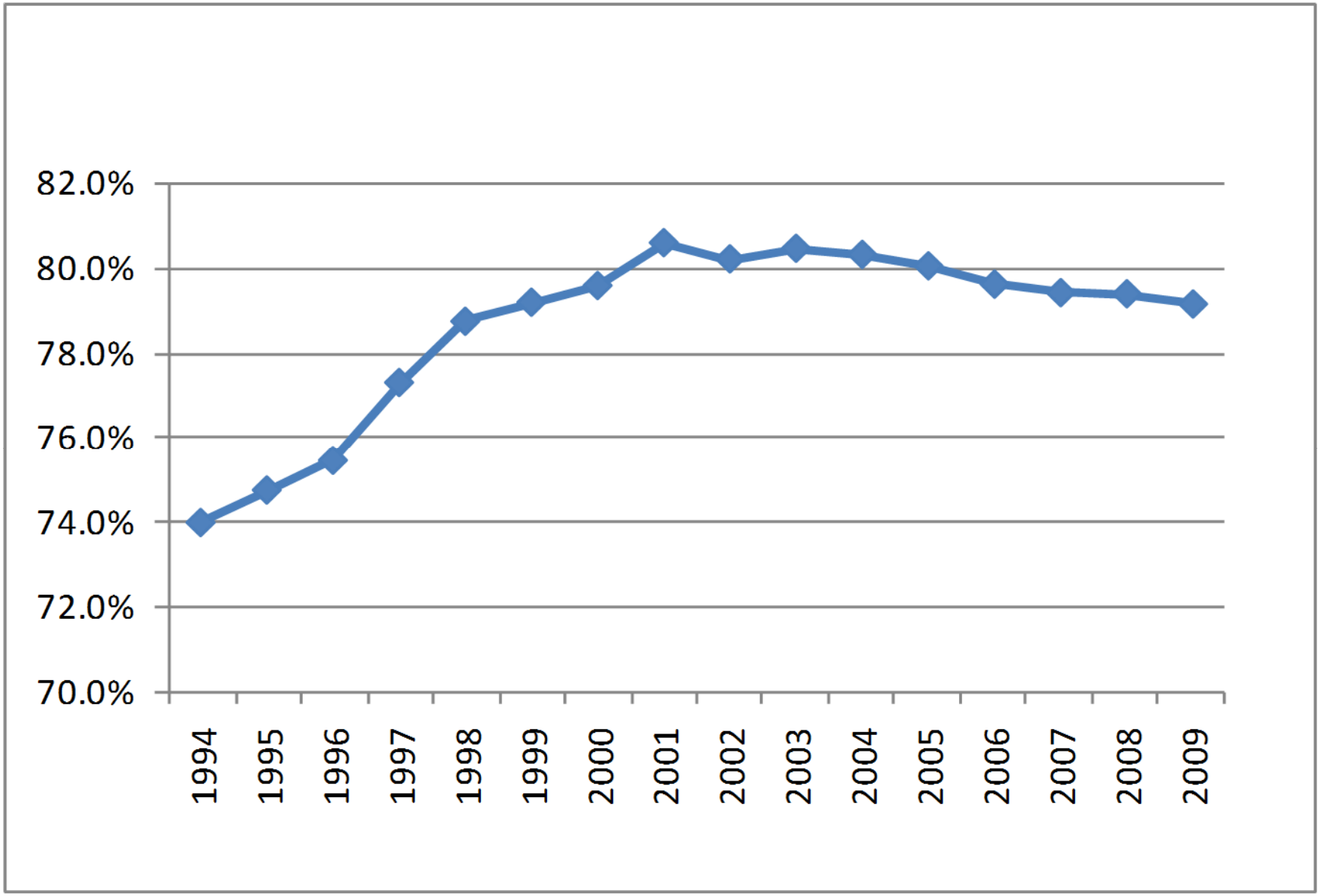
- Current landscape of Japanese Scholarly Publication and university libraries
- SPARC Japan
- CiNii: an portal of Japanese articles
- IRP: NII's Institutional repository program
  - NII's support for the promotion of repository
  - IR support services by NII
- Recent topics on Open Access in Japan

Current landscape of Japanese Scholarly Publication and university libraries

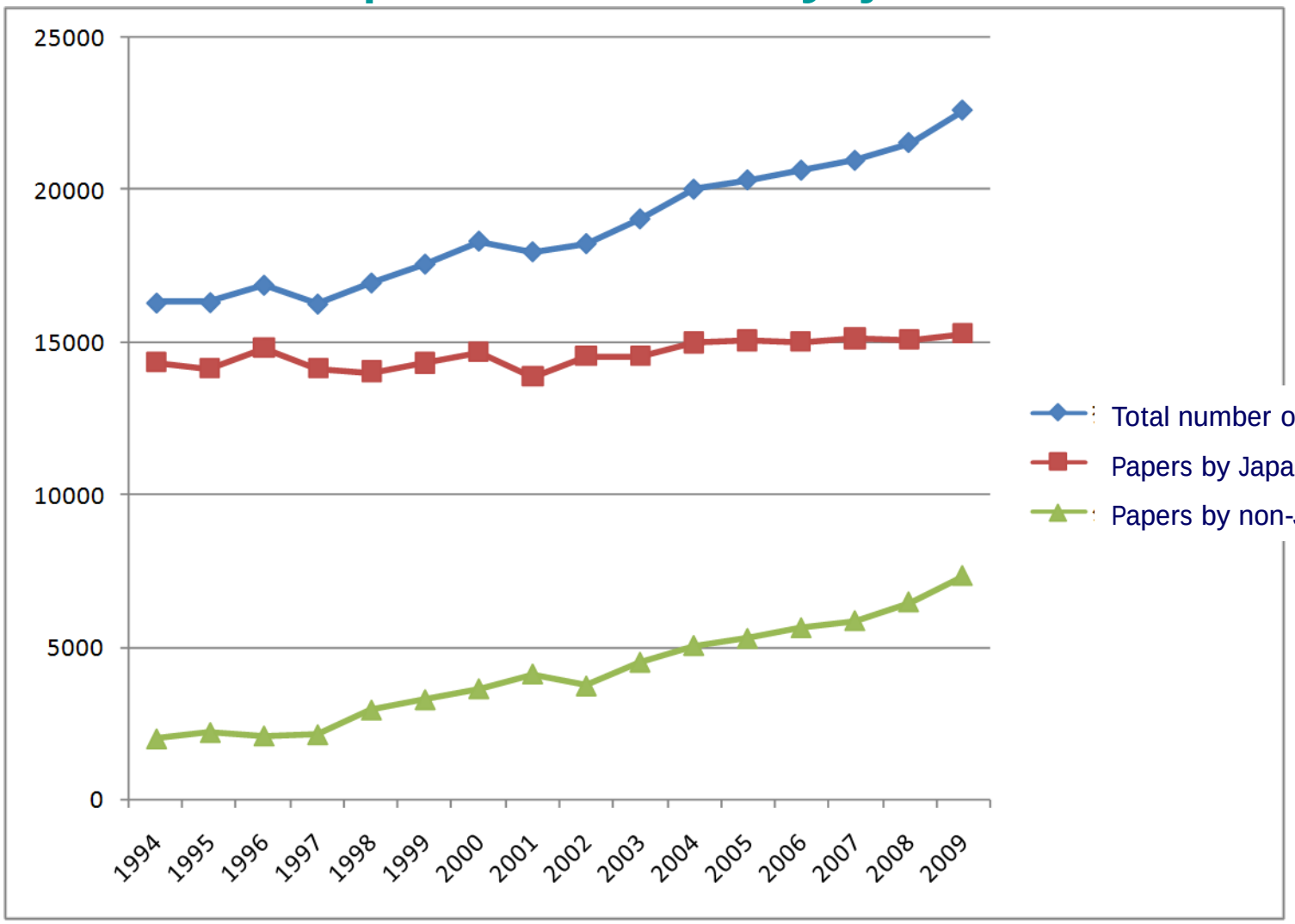
How Japanese authors write papers.



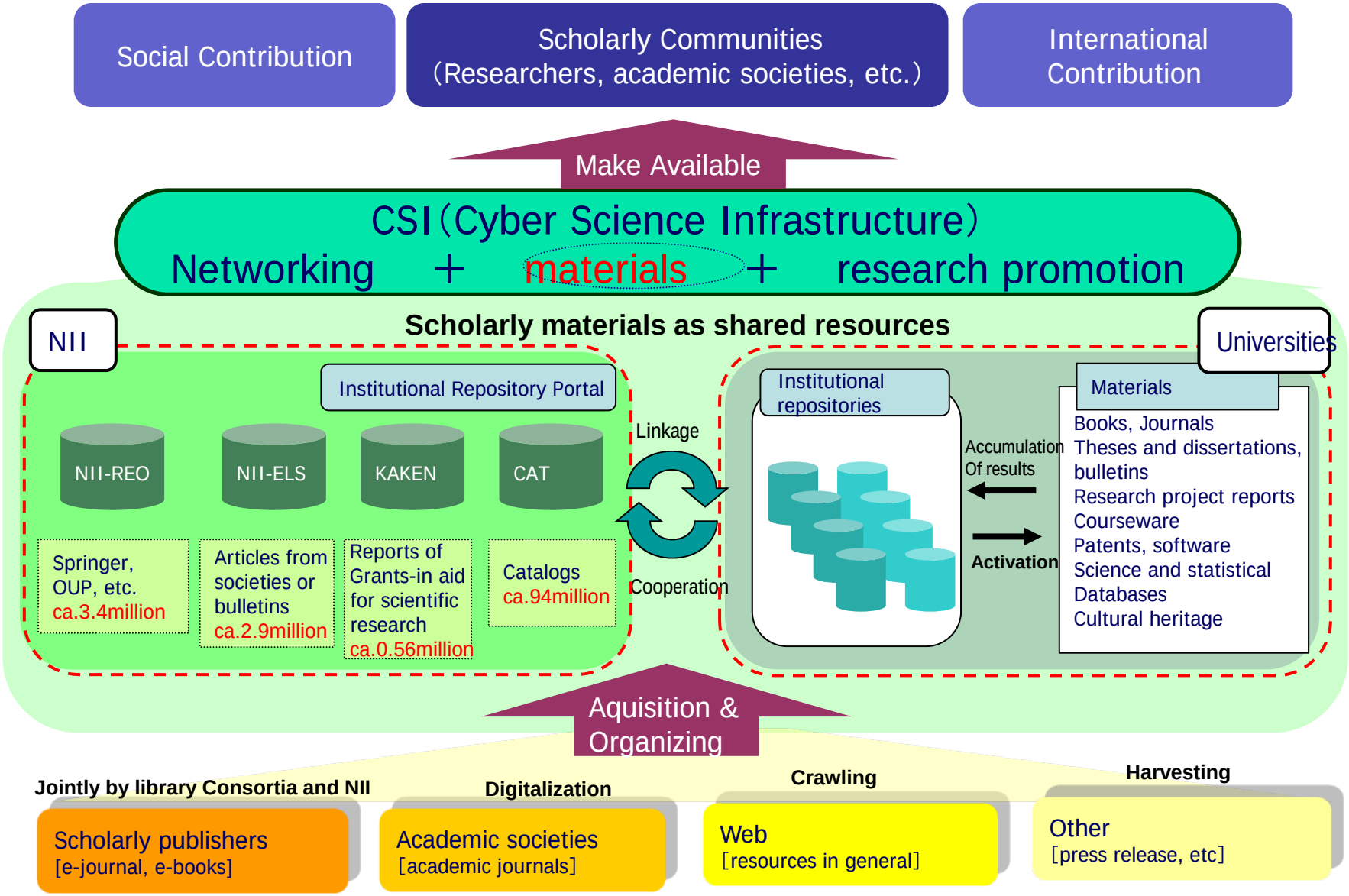
Japanese Authors' papers in foreign journals



Growth of non-Japanese authors in Japanese society journals



What NII is doing for academic communities



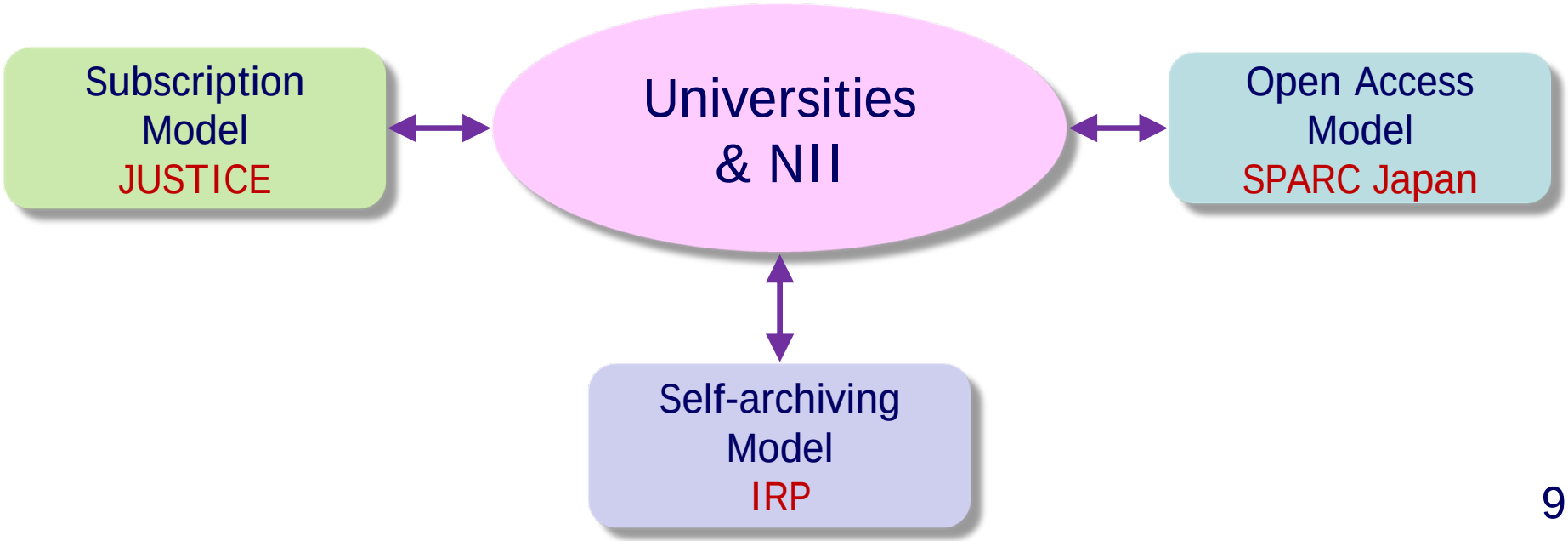
Japanese university libraries now

- Against the rise of E-journal fees:
  - JANUL+PULC → JUSTICE
    - ◆ According to the MoU concluded in October 2010, two major university library consortia were consolidated into JUSTICE (Japan Alliance of University Library Consortia for E-Resources) which has nearly 500 member libraries.
  - The new comprehensive consortium is expected to increase the strength for price negotiation with publishers
- The “Safety Net” for sustainable information acquisition
  - To promote repository installation
  - To strengthen the archiving of digital contents
  - Advocacy activities to researchers and faculty
  - To promote international collaboration in terms of scholarly communication

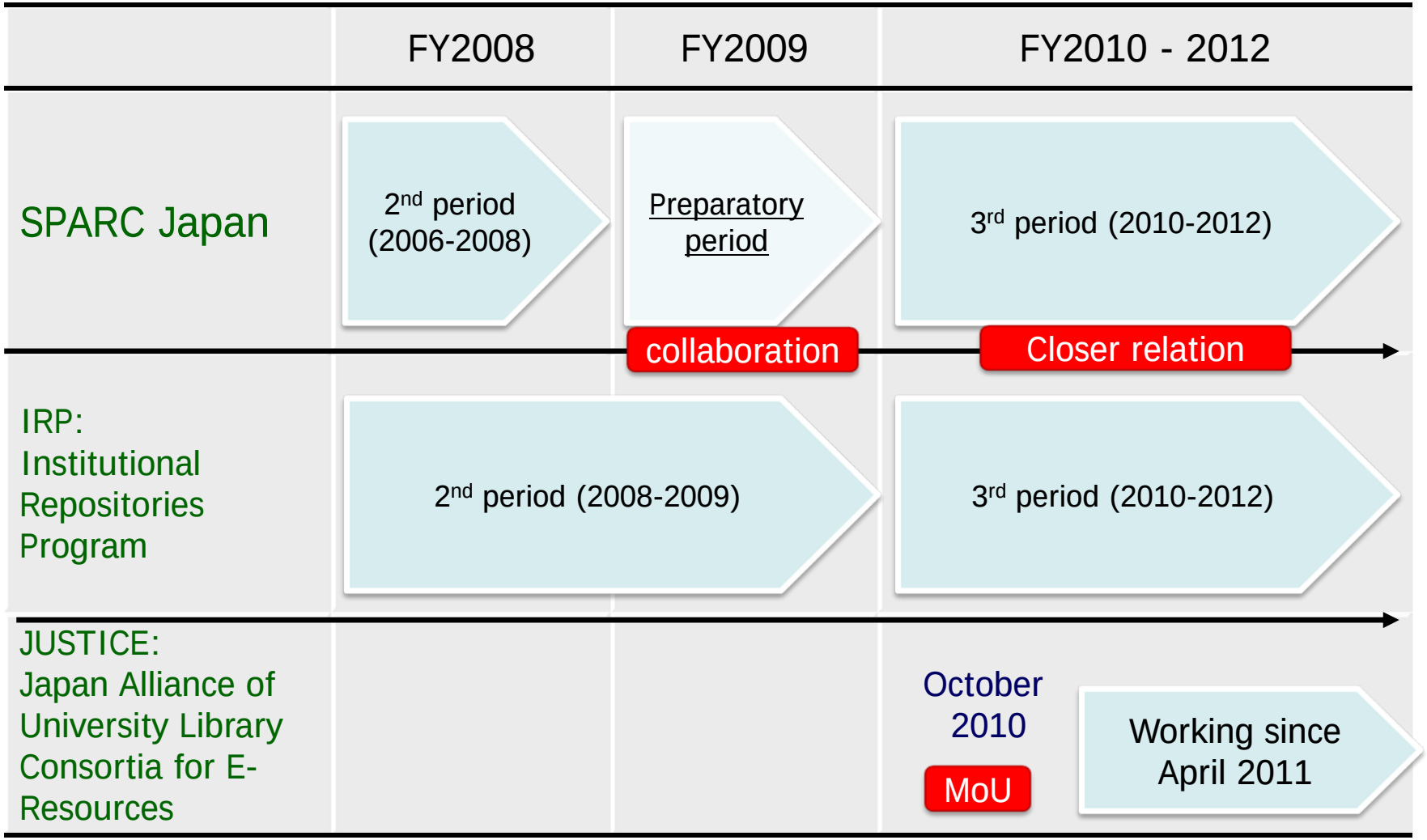
JANUL: Japan Association of National University Libraries
PULC : Private University Libraries Consortium

To advance Open Access

- Self-archiving in institutional repositories
- To promote open access journals
  - Japanese journal articles on CiNii
  - International collaboration for arXiv and SCOAP3



NII initiatives on Open Access



SPARC Japan

How the initiative launched

- From FY2003: “International Scholarly Communication Initiative”

http://www.nii.ac.jp/sparc/en

An NII initiative to strengthen the electronic journals of Japan's academic societies and to improve scholarly communication for the digital age.

“SPARC Japan” as an abbreviated name of the initiative based on the 2006 MOU with ARL

- Objectives

Develop and improve e-journal business models

Promote international collaboration

Strengthen advocacy activities

SPARC Japan Publishing Partners 1/2

45 Journals, Feb 2010

Physics	Journal of the Physical Society of Japan Japanese Journal of Applied Physics Applied Physics Express Progress of Theoretical Physics	The Physical Society of Japan The Japan Society of Applied Physics The Japan Society of Applied Physics Publication Office, Progress of Theoretical Physics
Electrical and Electronic Engineering	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences IEICE Transactions on Communications IEICE Transactions on Electronics IEICE Transactions on Information and Systems IEICE Electronics Express	The Institute of Electronics, Information and Communication Engineers
	Journal of Information Processing	Information Processing Society of Japan
Chemistry	Analytical Sciences	The Japan Society for Analytical Chemistry
	Journal of Bioscience and Bioengineering	The Society for Biotechnology, Japan
	Journal of Chemical Engineering of Japan	The Society of Chemical Engineers, Japan
	Polymer Journal	The Society of Polymer Science, Japan
	Bioscience, Biotechnology, and Biochemistry	Japan Society for Bioscience, Biotechnology, and Agrochemistry
Biological Sciences	**UniBio Press** -Current Herpetology -Journal of Mammalian Ova Research -Mammal Study -Zoological Science -Ornithological Science -Paleontological Research	UniBio Press -The Herpetological Society of Japan -The Japanese Society of Mammalian Ova Research -The Mammalogical Society of Japan -The Zoological Society of Japan -The Ornithological Society of Japan -The Palaeontological Society of Japan
Humanities/ Social Sciences	Monumenta Nipponica	Sophia University

SPARC Japan Publishing Partners 2/2

Mathematics	**Project Euclid** -Hiroshima Mathematical Journal -Journal of Mathematical Society of Japan -Kodai Mathematical Journal -Nagoya Mathematical Journal -Osaka Journal of Mathematics -Proceedings of the Japan Academy, Series A: Mathematical Sciences -Tohoku Mathematical Journal	Cornell University Library, Duke University Press -Department of Mathematics, Graduate School of Science, Hiroshima University -The Mathematical Society of Japan -Department of Mathematics, Tokyo Institute of Technology -Graduate School of Mathematics, Nagoya University -Department of Mathematics, Graduate School of Science, Osaka University / Department of Mathematics, Graduate School of Science, Osaka City University -The Japan Academy -Mathematical Institute, Tohoku University
	Publications of Research Institute for Mathematical Sciences	Research Institute for Mathematical Sciences, Kyoto University
Materials Science	Materials Transactions	Collaborative publication of 11 materials related institutes including The Japan Institute of Metals
Medicine	The Journal of Physiological Sciences	The Physiological Society of Japan
	Allergology International	Japanese Society of Allergology
	Drug Metabolism and Pharmacokinetics	The Japanese Society for the Study of Xenobiotics
Engineering	Journal of Fluid Science and Technology Journal of Thermal Science and Technology Journal of Biomechanical Science and Engineering Journal of Environment and Engineering Journal of Solid Mechanics and Materials Engineering Journal of System Design and Dynamics Journal of Advanced Mechanical Design, Systems, and Manufacturing Journal of Power and Energy Systems Journal of Computational Science and Technology Journal of Space Engineering Journal of Mechanical Systems for Transportation and Logistics	The Japan Society of Mechanical Engineers

Support for Electronic Journals Publication

- To accelerate the shift to e-journal
  - Some new electronic-only journals such as ELEX, JIP, and JSME Journals were launched
- To support retrospective digitization
  - 37 journals completed the tasks
- To utilize online system for manuscript submission and peer-review

Support for Business Model Improvement

- Creation of e-journal packages / Site license agreements with university libraries consortia
  - UniBio Press: Package of 6 biological society journals
  - IEICE (The Institute of Electronics, Information and Communication Engineers): Package of 4 Transactions journals
  - UniBio Press and IEICE have concluded contractual negotiations with JANUL and PULC
- Collaboration with BioOne
  - Global sales of UniBio journals in the BioOne.2 collection
  - Site licenses at 178 institutions outside Japan (163 in North America, 15 elsewhere)

Collaboration with International Partnerships

- Collaboration with SPARC US
  - March 2006: Exchange of MOU
  - November 2008, 2010: Co-hosted SPARC Digital Repository Meeting (Baltimore, U.S.)
- Collaboration with Project Euclid
  - 8 mathematical journals published on the mathematical sciences on the Project Euclid platform

Journal Name	Access Plan
Tohoku Mathematical Journal	Euclid Select
Journal of the Mathematical Society of Japan	Euclid Select
Kodai Mathematical Journal	Euclid Prime
Hiroshima Mathematical Journal	Open Access
Nagoya Mathematical Journal	Open Access
Osaka Journal of Mathematics	Open Access
Proceedings of the Japan Academy, Series A, Mathematical Sciences	Open Access
Publications of the Research Institute for Mathematical Sciences	Open Access

Advocacy activities

- Forum for academic society journal editors, librarians and researchers
  - SPARC Japan Seminars (40 seminars from 2005 to 2009)
  - International symposia, ALPSP training courses, etc.
- Newsletters (Quarterly since 2009)
- Researches and evaluation reports
  - Surveys on researchers trends
  - Evaluation of projects and publishing partners
- Domain-wide collaborative promotion activities in overseas conferences
  - Biology, chemistry and mathematics

SPARC Japan
NewsLetter
NO.2 2009年10月
ISSN1883-5171
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トニー・オルーク
ALPSP セミナー, 東京
2010年2月

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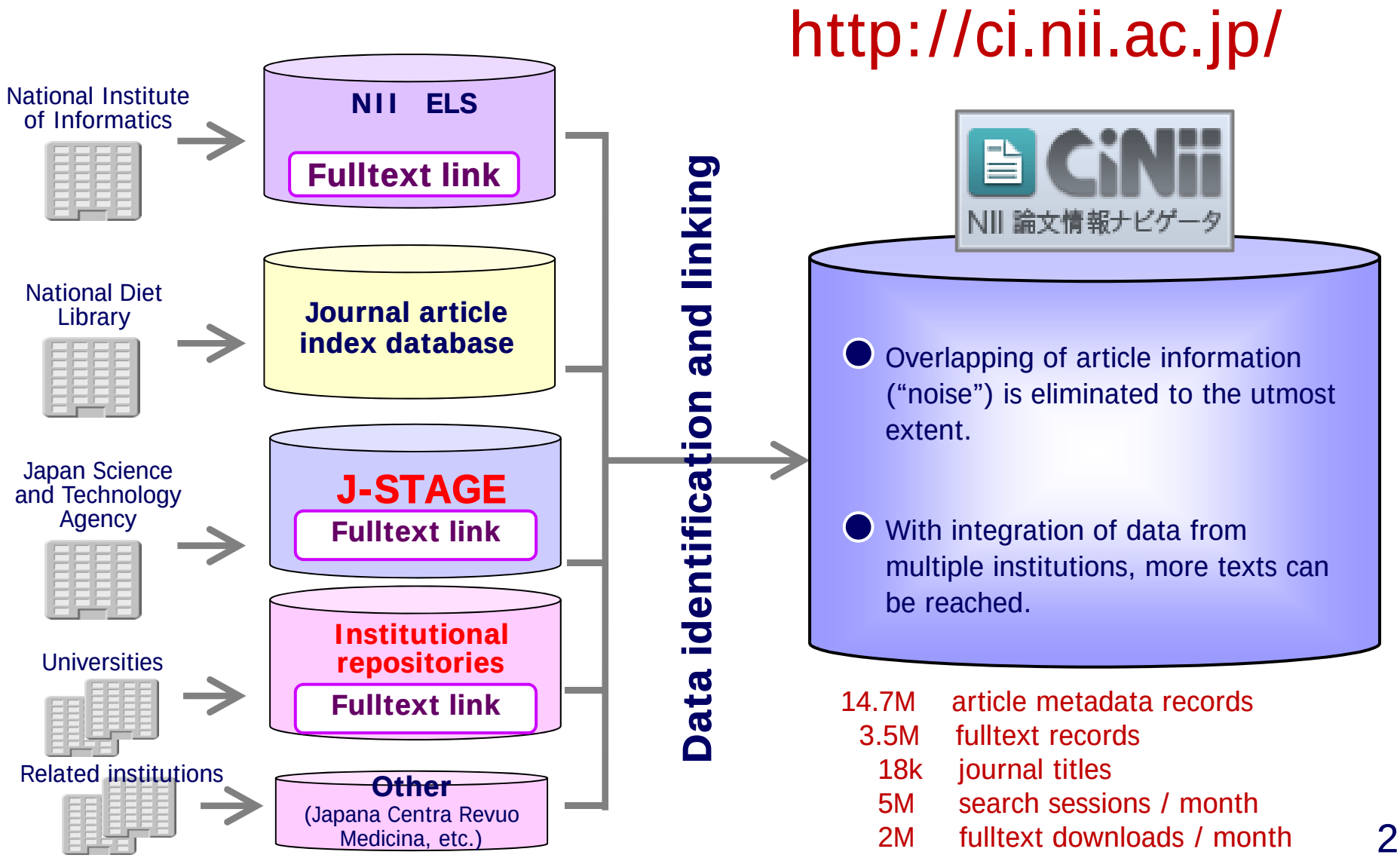
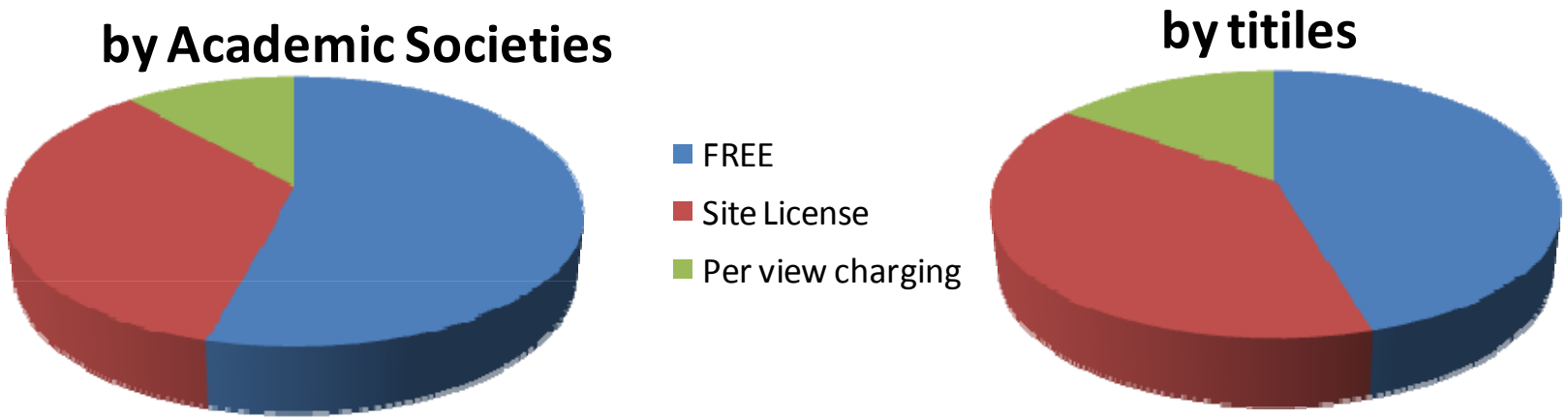
CiNii: a portal of Japanese articles

Metadata Integration of Article Databases



Open access to more than half of full-text articles

About 90% of full-text articles in CiNii are available freely accessed based on institutional fixed-price contracts.



	Conference proceedings	Journal titles	Articles
Completely free	178	462	1,680,000 (62%)
Site License	113	401	771,000 (26%)
Per-view charging	38	156	339,000 (12%)

Mashups of Services

- Linkage from CiNii metadata to fulltext in IR

IRP: NII's Institutional repository program

Two roles of Japanese university repository

- Self-archiving for the promotion of open access

  Contribution to research community

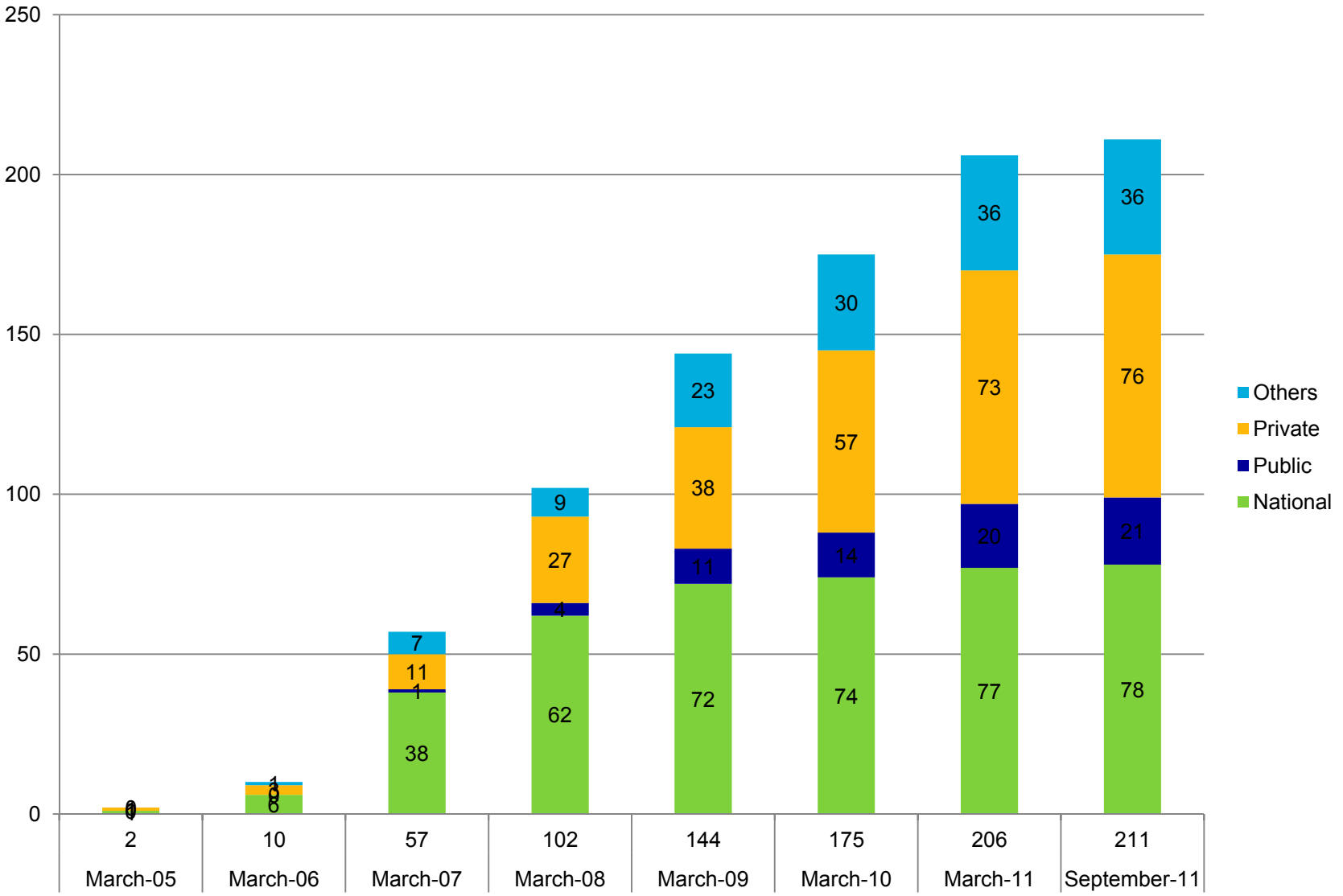
  - To self-archive articles in E-journal
  - Japan should contribute about 6-10% according to the share in total publications worldwide

- Dissemination of university outcome

  Accountability to the society and the public

  - dissertations
  - university bulletins
  - Databases and digital contents related to research

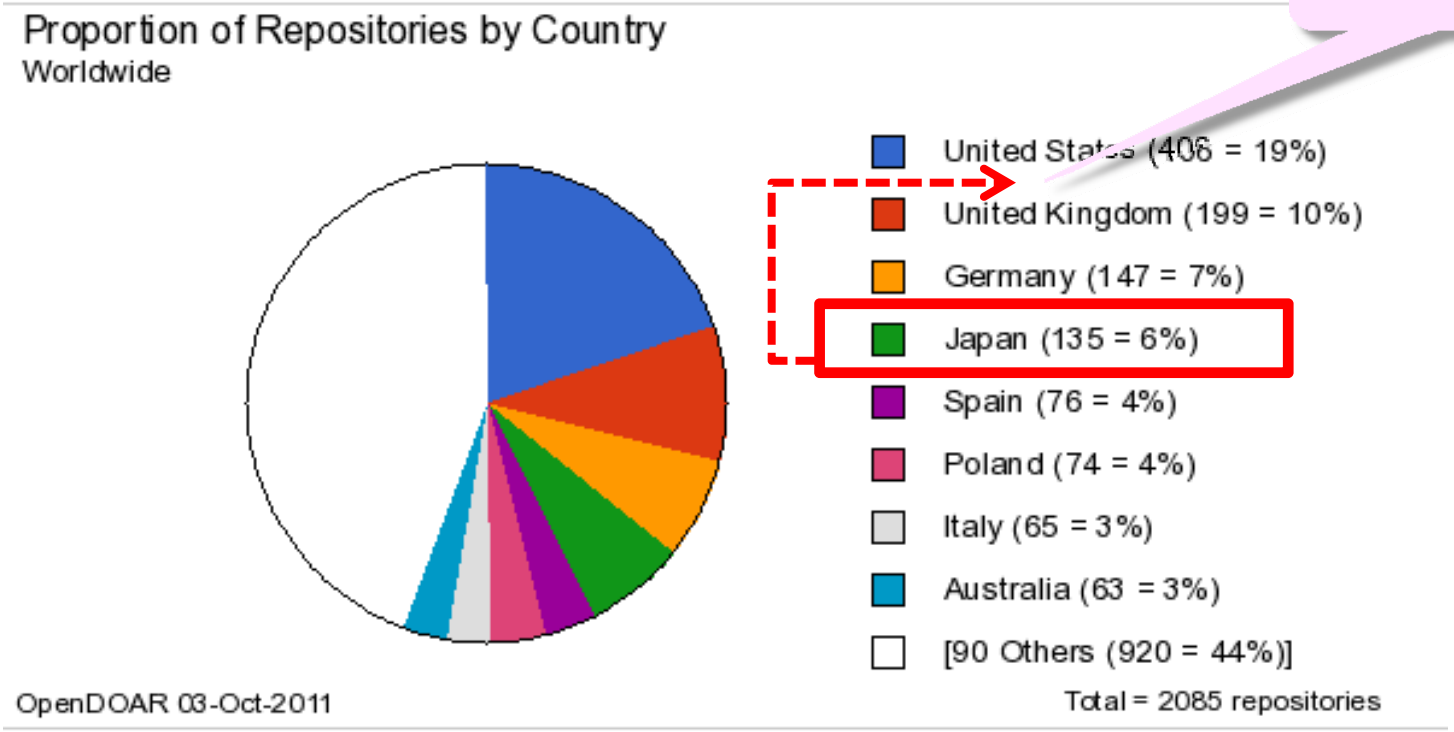
Expansion of IRs (1)



Expansion of IRs (2)

- World total：2085
  - Japan is in the fourth with 135

Actually, Japan is the 2nd with 211



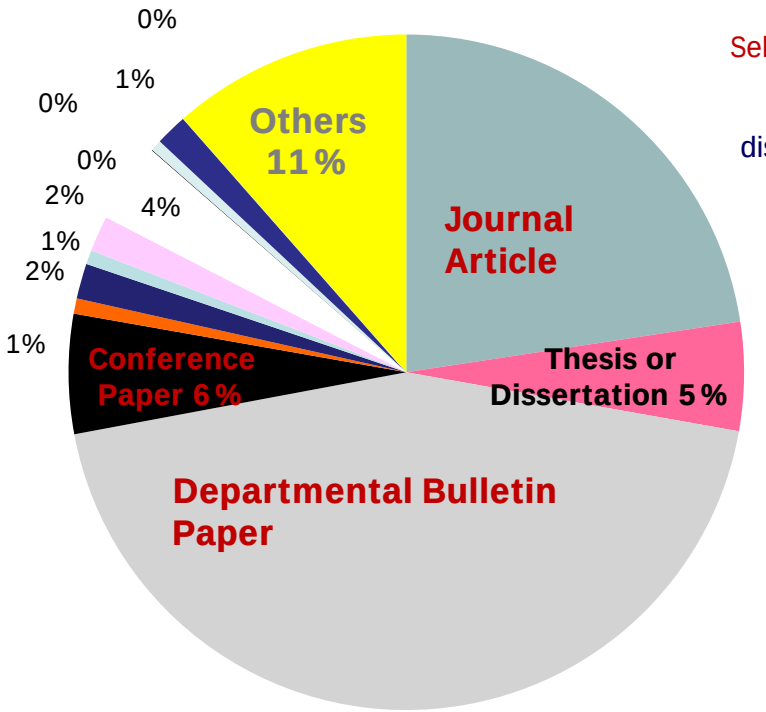
Open DOAR: Directory of Open Access Repositories
http://www.opendoar.org/ （2011/10/03）

Increase of materials deposited

Number of materials deposited

NII Institutional Repositories DataBase Contents Analysis

(2011/10/03 Number of Organizations 186, Number of records: 1,176,076)



	content types	Number of records	Ratio of full text
Self archiving	Journal Article	265,775	50.9%
dissemination	Thesis or Dissertation	61,108	55.2%
	Departmental Bulletin Paper	520,609	87.6%
	Conference Paper	67,312	20.2%
	Presentation	8,591	38.2%
	Book	19,744	48.7%
	Technical Report	7,910	86.9%
	Research Paper	20,194	89.6%
	Article	45,050	83.0%
	Preprint	354	91.8%
	Learning Material	6,247	39.7%
	Data or Dataset	18,137	98.9%
	Software	23	73.9%
	Others	135,022	92.9%
	Total	1,176,076	73.1%

- NII Institutional Repositories DataBase Contents Analysis
  http://irdb.nii.ac.jp/analysis/index_e.php （Last accessed：2011/10/03）

NII’s support for the promotion of repository

Roles of NII in repository promotion

- To conduct projects that are difficult for an individual institution
  - Responsibility as an inter-university institute
  - Funding
    - For start-up
    - Research and development
    - Support for IR community activities
  - Adding values over the content of repositories
    - Portal services of repositories
    - Statistics and evaluation
    - Support tools
  - Liaison with the government and national policy-makers

NII-funded Programs

NII-IRP (Institutional Repositories Program)

http://www.nii.ac.jp/irp/en/

- 1st period: FY2005-2007
- 2nd period: FY2008-2009
- 3rd period: FY2010-2012
  - Three categories of funding
    - Area 1: Content creation for new IRs (24 institutions)
    - Area 2: Research and development (8 projects)
      - ✓ Pilot studies to accelerate the deposit of content (e.g. Theses and Dissertations, Government-funded research publications)
      - ✓ Development of new value-added services, etc.
    - Area 3: Support for community activities (on next slide)

Current projects

- NII-IRP (Institutional Repositories Program) 3rd period (FY2010-2012)
  - Area 3: Support for community activities (5 projects)
    - ✓ DRF; Community of repository managers (include international collaboration; participation in COAR)
    - ✓ SCPJ; Development of the OA policy of academic societies in Japan (include collaboration with SPARC Japan)
    - ✓ ShaRe; Promote the shared repository, etc.

- Development of NII's system infrastructure
  - Provide affordable system resources by provisioning cloud computing facilities such as an ASP (Application service provider) services.

Area 2: Research and development

	Project profile	Univ.
A-1	Dissertation database support package development	Univ. of Tokyo
A-3	Development of automatic document collection and registration workflow system	Kyushu Univ. (Hitotsubashi Univ.)
B-1	Development of new XooNIps / Development and dissemination of Library module	Keio Univ.
B-3	Nationwide historic ruins excavation report repository project	Shimane Univ.
B-4	Permanent identifier verification experiment to introduce an identification function in the open access environment	Kanazawa Univ.
B-5	Standardization and upgrading of institutional repository statistics and assessment tools	Chiba Univ.
B-6	Demonstrative experiment of connecting electronic publishing and repositories in cloud computing environment	Nagoya Univ.
B-8	Development of DML (Digital Mathematical Library)	Hokkaido Univ.

Area 3: Support for community activities

	Project profile	Univ.
1	Support for institutional repository community activities (DRF)	Hokkaido Univ. (Kanazawa Univ.) (Osaka Univ.)
2	Copyright policy database project (SCPJ) to boost open access and self archiving	Univ. of Tsukuba
3	Development of human resources for institutional repositories	Osaka Univ. (Chiba Univ.)
4	Support for development of an institutional repository community in Kinki region	Osaka Univ. (Nara Women's Univ.)
5	Fostering regional communities for institutional repository (ShaRe2)	Hiroshima Univ.

More on SCPJ project (1)

Outline

- Investigate Japanese scholarly societies' open access policies and publicize this information through SCPJ (Societies Copyright Policies in Japan) database.
- http://scpj.tulips.tsukuba.ac.jp/

Two Features of SCPJ database

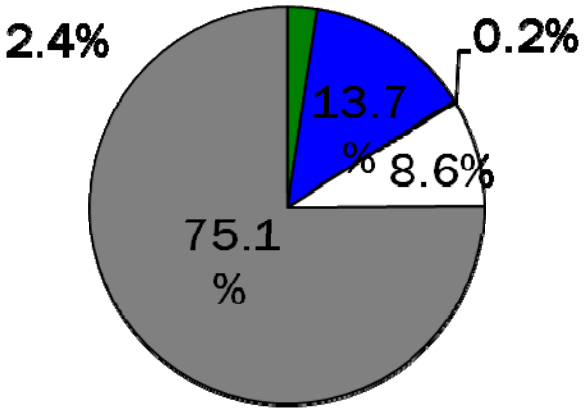
- The only database that covers OA policies of almost all Japanese academic societies (about 1,800)
- No policy is a policy: to regard responses of "under consideration" or "No response" as one of the policies

SAITO Mika, HIRATA Kan, MORI Ichiro, HOSOKAWA Maki, TSUKUI Yuko, NAKAYAMA Takahiro. "New SCPJ: Let's develop an open access policy database together!" DRF International Conference 2009, Poster Session, 3-4 December, 2009, Tokyo Institute of Technology, Japan.

More on SCPJ project (2)

- Color coding of OA policy in SCPJ database

Color	OA policy	Num
Green	Author can archive both Pre-prints & Post-prints	44
Blue	Author can archive only Post-prints	252
Yellow	Author can archive only Pre-prints	4
White	Author can not archive	157
Gray	Under consideration	1,379

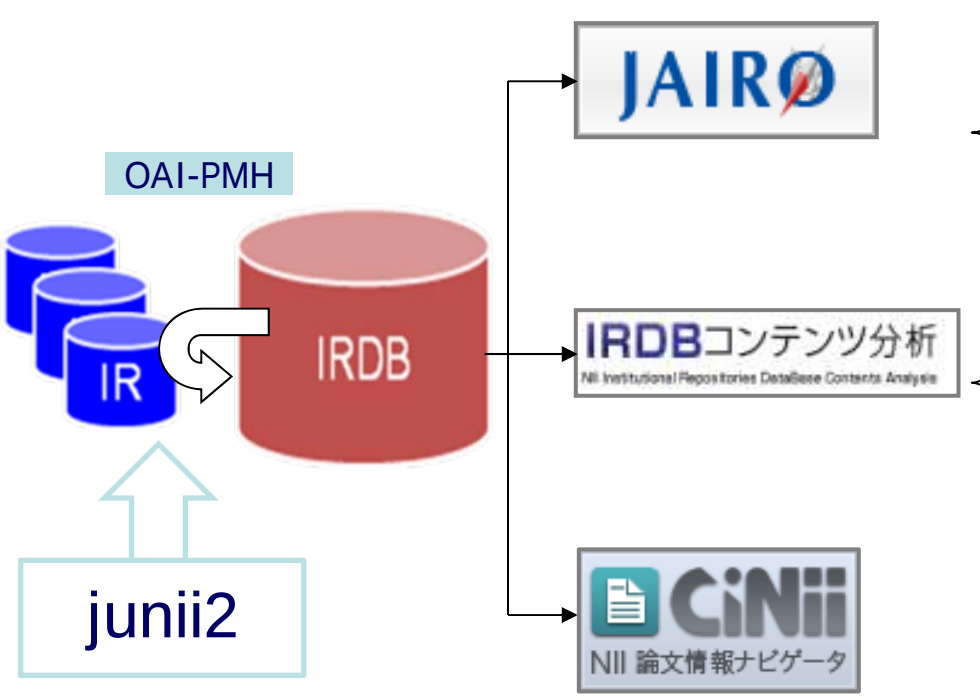


http://scpj.tulips.tsukuba.ac.jp/ (as of 2010-09-01)

IR-support services by NII

Portal services of Japanese IRs (1)

- NII harvests almost all Japanese IRs



- JAIRO is a “gyroscope” of IR content
- Use it to search all IRs in Japan at once!

- IRDB Content Analysis shows how contents are growing and gives detailed information on each IR.

- CiNii is the largest database of academic journal articles in Japan.
- Metadata on journal articles and departmental bulletins goes to CiNii and is linked to the full texts in the IRs.

- junii2 is a “Dublin Core” application profile for institutional repository with an OpenURL compliant schema.
- It has been adopted by almost all IRs in Japan.

http://www.nii.ac.jp/irp/en/archive/pdf/junii2_en_20090213.pdf

Portal services of Japanese IRs (2)

- JAIRO : Japanese Institutional Repositories Online

Narrow search by content type

To get the detail of each IR

Narrow search by organization

Portal services of Japanese IRs (3)

IRDB Content Analysis System

IRDBコンテンツ分析

NII Institutional Repositories DataBase Contents Analysis

›About Us ›Help ›News
›Contact Us ›Japanese

Search by "Organization name" etc. : SEARCH

HOME BROWSE

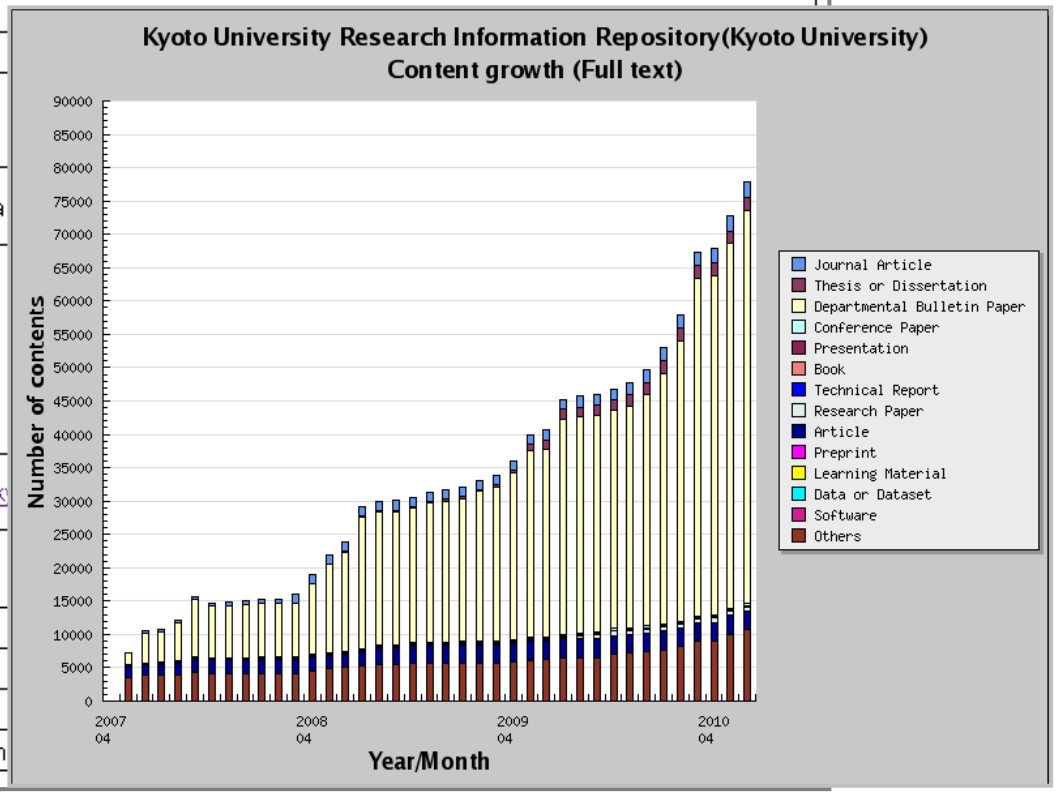
We are providing statistics of Japanese Institutional Repositories DataBase.
›more

[2010/02/28 Number of Organizations 145, Number of records ALL: 823,655, Full text 588,150]

Organization Code	14301
Organization name	Kyoto University

Repository 1

Institutional repository name	Kyoto University Resea
Institutional repository Top Page	No Image
URL of Institutional repository	http://repository.kulib.k
Institutional repository Logo	KURENAI 紅 Kyoto University
Software	DSpace
Trial release date	2006/06/07
Release date	2006/10/02
Comment	This IR cooperates with



Recent topics on Open Access in Japan

Outlook for the 3rd stage

- To improve scholarly communication for all stakeholders, including researchers, university libraries, and academic societies, by encouraging closer collaboration between SPARC Japan and IRP.

- To deepen collaboration between research libraries and academic societies to advance open access systems tailored to Japan's specific features of scholarly communication.

Quality of OA articles

Repository-friendly publishing

- To permit posting of the post-print (publisher version)
- Embargo of less than or equal to one year
- To recommend publishers to implementat author-pay model for open access

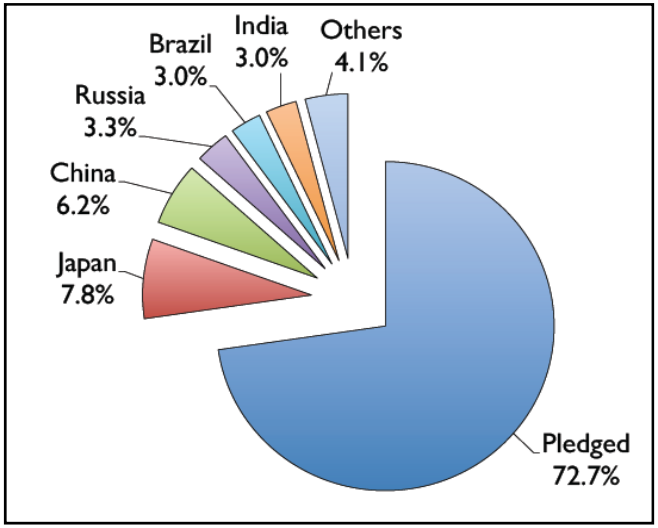
What has happened in Japan

arXiv support:

- SPARC Japan coordinates the support from Japanese institutions.
- 9 institutions out of 15 contributed in 2010.
- Two more institutions will join in 2011.

SCOAP3 collaboration

- Libraries and NII restarted discussion in 2010.
- Expression of Interests was submitted on August 31, 2011 with signatures of KEK, NII and CCJUNL
- HEP journal open access is expected to start in January, 2013.



Issues still left

- OA policy implementation:
  - Nation-wide:
    - Mandate of self-archiving for (1) outcome of grant-in-aid researches (KAKEN) and (2) doctoral dissertations.
  - In universities:
    - To define OA and self-archiving policies
    - To encourage paper submission to OA journals
- International collaborations
  - arXiv and SCOAP3, then what?
- To strengthen the infrastructure
  - E-publishing in universities
  - Cloud computing approach (SaaS) for IR provided by NII

Thank you for your attention!