

## NII学術コンテンツサービスの新展開

## New Developments in the Scholarly Information Services of NII

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<http://www.nii.ac.jp/en/>

### outline

- NACSIS-CAT
- Current landscape of IR
- NII's support for the promotion of repositories
- Information services by NII
- Archives
- Summing-up

# NACSIS-CAT & ILL

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## NACSIS-CAT Now

□ Bibliographic records 10 Million

□ Holding records 110 Million

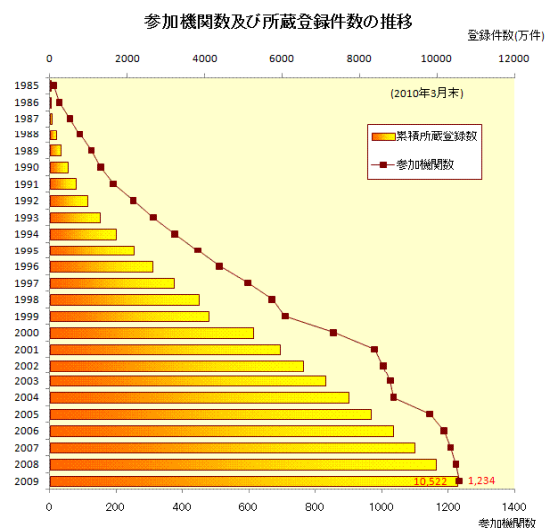
□ Member libraries 1,234

■ More than 90% universities

□ Related services

■ Inter-library loan

■ Open service by Webcat Plus



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## Further Dissemination of Catalog databases

### □ Development NACSIS-CAT API

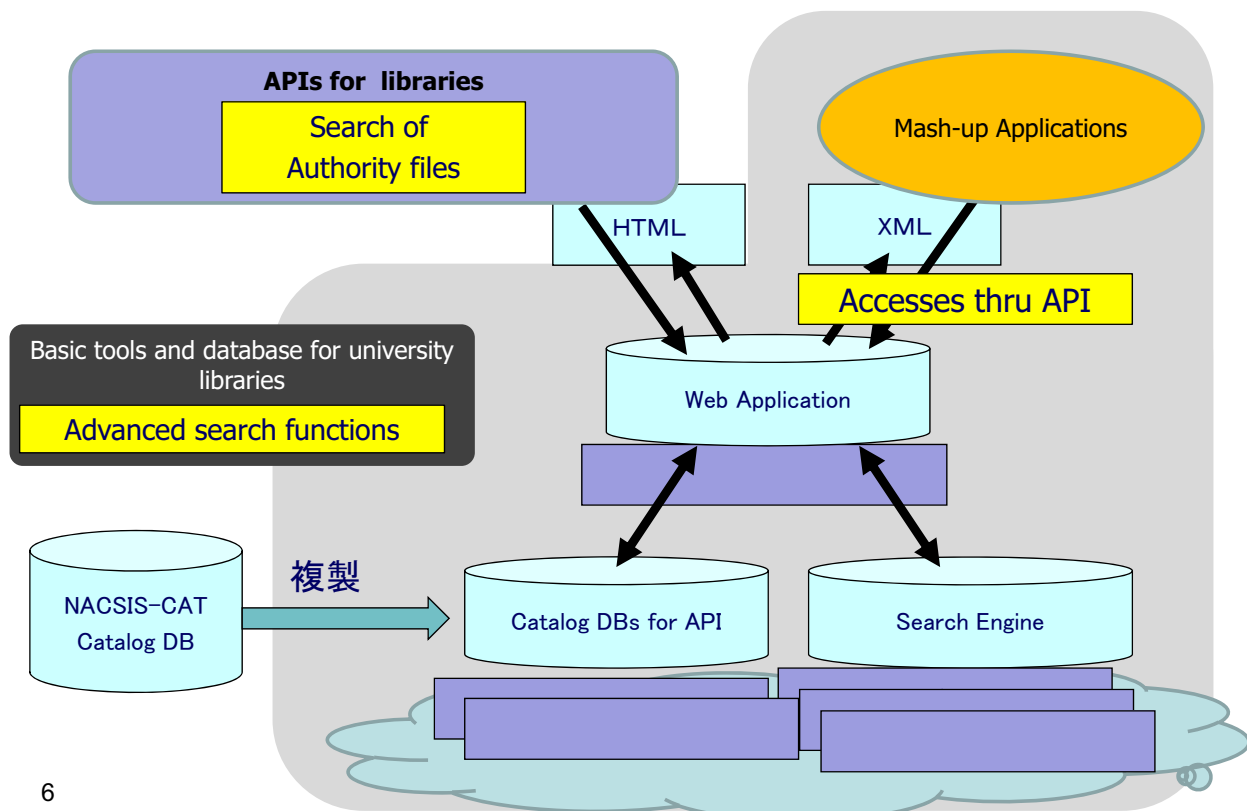
- Service will start in next June.

### □ Open service of name authority files

- Service starts with API services

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## NACSIS-CAT API



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## NACSIS-ILL Now

### □ Photocopy requests

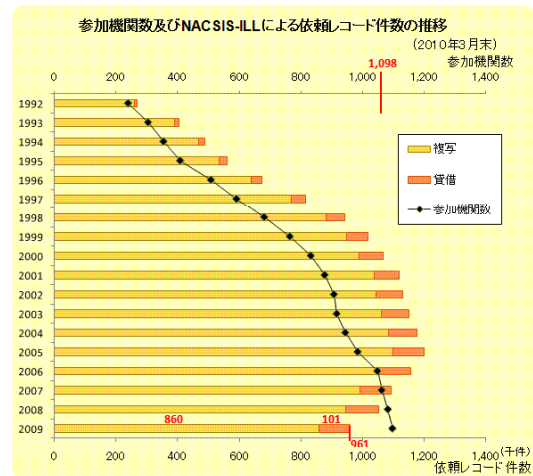
860 thousands/year

- Gradually decreases with availability of E-resources

### □ Loan requests 100 k/year

### □ ILL for overseas

- BLDSC (1994-2010)
- OCLC (2002- )
- KERIS (2004- )



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Current landscape of  
institutional repositories

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## Japanese university libraries Now

### □ Against the rise of E-journal price:

- Establishment of the nation-wide, comprehensive library consortium (JANUL+PULC) in October 2010
- This consortium is empowered to the negotiation

### □ The “Safety Net” for sustainable information acquisition

- To encourage repository installation
- To strengthen the archive
- Advocacy to researchers and faculty
- .....

### □ Institutionalization of Open Access mandates

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## Two roles of repository in Japan

### □ 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

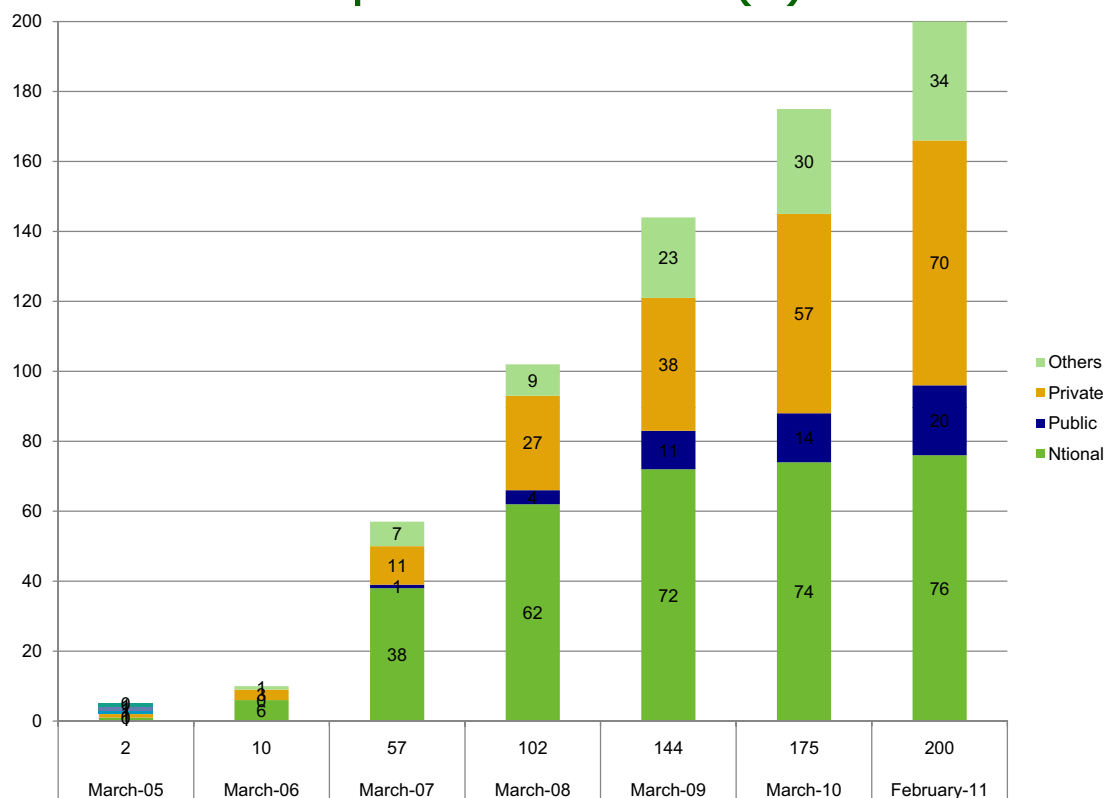
### □ Dissemination of university outcome

#### Accountability to the society and the public

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

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## Expansion of IRs (1)



## Expansion of IRs (2)

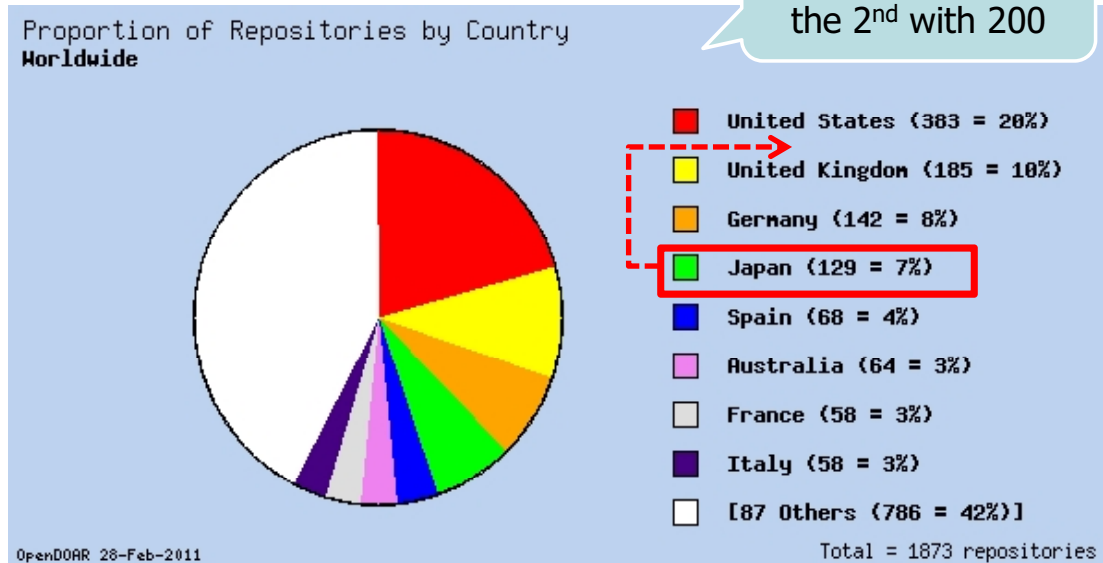
### ■ Breakdown by kinds of universities and colleges (Feb. 2011)

	IRs	Number of universities and colleges	Percentage
	(A)	(B)	(A/B)
National	*76	86	88%
Public	**20	95	21%
Private	***70	597	11%
Subtotal	166	778	21%
Others	****34	-	-
Total	200	-	-

- Regionally shared repository is very effective for middle and small institutions which have difficulties in establishing their own repository.
  - \* include 2 shared repositories
  - \*\* include 8 shared repositories
  - \*\*\* include 36 shared repositories
  - \*\*\*\* include 25 shared repositories
- NII funds the "Shared Repository project (ShaRe)".
  - Leading Institution: Hiroshima University  
<http://www.lib.hiroshima-u.ac.jp/share/share.html>

## Expansion of IRs (3)

- World total: 1873
  - Japan is the fourth with 129



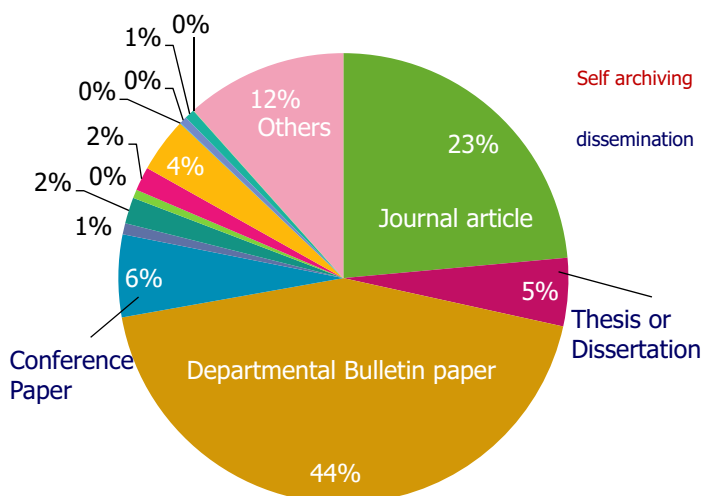
Open DOAR: Directory of Open Access Repositories  
[http://www.open\\_doar.org/](http://www.open_doar.org/) (2011/2/28)

## Increase of materials deposited

### ■ Number of materials deposited

NII Institutional Repositories DataBase Contents Analysis

(2011/02/28 Number of Organizations 172, Number of records: 1,083,993)



content types	Number of records	Ratio of full text
Journal Article	250,478	48.8%
Thesis or Dissertation	52,258	53.5%
Departmental Bulletin Paper	478,439	86.9%
Conference Paper	62,327	20.0%
Presentation	9,351	33.0%
Book	19,098	47.9%
Technical Report	7,111	86.8%
Research Paper	18,703	88.3%
Article	41,758	82.8%
Preprint	333	90.4%
Learning Material	5,536	40.1%
Data or Dataset	13,589	99.0%
Software	8	25.0%
Others	125,004	92.8%
SUM	1,083,993	71.9%

□ NII Institutional Repositories DataBase Contents Analysis

[http://irdb.nii.ac.jp/analysis/index\\_e.php](http://irdb.nii.ac.jp/analysis/index_e.php) (Last accessed: 2011/03/01)

# NII's support for the promotion of repositories

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## Roles of NII in repository promotion

- To conduct projects that are difficult for an individual institution or a group of institutions
  - 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

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## NII-funded Programs

### ■ NII-IRP (Institutional Repositories Program)

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



■ 1<sup>st</sup> period: FY2005-2007

■ 2<sup>nd</sup> period: FY2008-2009

■ 3<sup>rd</sup> 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)

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## Current projects

### ■ NII-IRP (Institutional Repositories Program) 3<sup>rd</sup> 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.

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## 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.

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## Area 3: Support for community activities

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

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#### Executive Board

- Chairperson: Dr. Norbert Lossau, Göttingen State and University Library, Germany
- Vice Chairperson: Sugita Shigeki, University Library, Hokkaido University, Japan
- Treasurer: Alicia López Medina, Universidad Nacional de Educación a Distancia, Spain

#### Members

- Association for Learning Technology (ALT), ALT Repository
- Canadian Association of Research Libraries (CARL)
- National Science Library, Chinese Academy of Sciences (CAS)
- Coalition for Networked Information (CNI)
- Cooperación Latino Americana de Redes Avanzadas (CLARA)
- Italian National Research Council (CNR), Institute of Information Science and Technologies
- Consejo Superior de Investigaciones Científicas (CSIC)
- Consorcio Madroño
- Denmark's Electronic Research Library (DEFF) on behalf of the Danish Agency for Libraries and Media
- Digital Repository Federation Japan (DRF)
- EDINA and Information Services at the University of Edinburgh
- eIFL.net
- Fundação para a Computação Científica Nacional (FCCN)
- Fundación Española para la Ciencia y la Tecnología (FECYT)
- Joint Information Systems Committee (JISC) on behalf of the Higher Education Funding Council for England (HEFCE)
- Institute of Mathematics and Informatics - Bulgarian Academy of Sciences
- Kungliga Biblioteket, Stockholm
- Koninklijke Bibliotheek, The Hague
- Library of the Hungarian Academy of Sciences / Tudományos Akadémia Könyvtára
- Ministerio de Ciencia, Tecnología e Innovación Productiva (MinCyT)
- My Open Archive
- National Institute of Informatics (NII)
- NORA on behalf of the University of Tromsø
- National and University Library of Slovenia (NUK)
- Online Computer Library Center (OCLC)
- Red Nacional Académica de Tecnología Avanzada (RENATA)
- Sachsische Landesbibliothek - Staats- und Universitätsbibliothek Dresden



<http://coar-repositories.org/>, (accessed 2010-09-01)

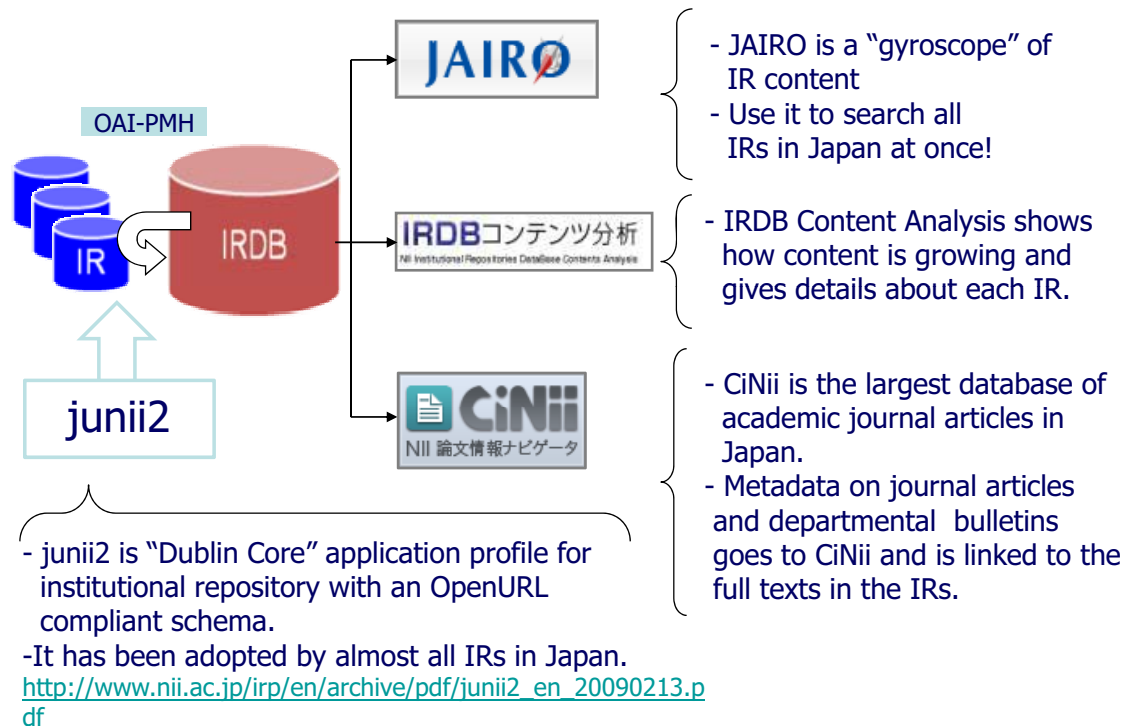
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## Information services by NII

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## Portal services of Japanese IRs (1)

### □ NII harvests almost all Japanese IRs



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## Portal services of Japanese IRs (2)

### □ JAIRO : Japanese Institutional Repositories Online

The screenshot shows the JAIRO website interface. At the top, the JAIRO logo and 'Japanese Institutional Repositories Online' are displayed. Below the logo, the date '2010/07/19' and statistics 'Number of Organizations : 155, Number of records : 963,583' are shown. A 'News' section contains three bullet points. Below the news is a search bar with 'Simple Search' and 'Advanced Search' tabs. The search bar includes a 'Search' button, a 'Results per page: 10' dropdown, a 'Sort by: Year(Descending)' dropdown, and radio buttons for 'All' and 'Include'. Below the search bar is a 'Content types' section with a table of content types and their counts. To the right of the content types is a 'Narrow search by content type' callout. Below the content types is an 'Organizations' section with a 'Display' button and a 'Narrow search by organization' callout. To the right of the organizations is a 'Contents used well' section with a list of items. A 'To get the detail of each IR' callout points to the 'About contents of JAIRO' section, which contains a bar chart.

**Narrow search by content type**

**Narrow search by organization**

**To get the detail of each IR**

**Content types**

Content Type	Count
Journal Article	225,808
Departmental Bulletin Paper	419,070
Presentation	8,413
Technical Report	5,839
Article	37,390
Learning Material	5,145
Software	8
Thesis or Dissertation	46,664
Conference Paper	56,355
Book	18,034
Research Paper	16,481
Preprint	327
Data or Dataset	11,201
Others	112,798

**Organizations**

Click on "Organizations" to display or hide the list of organizations.

**About contents of JAIRO**

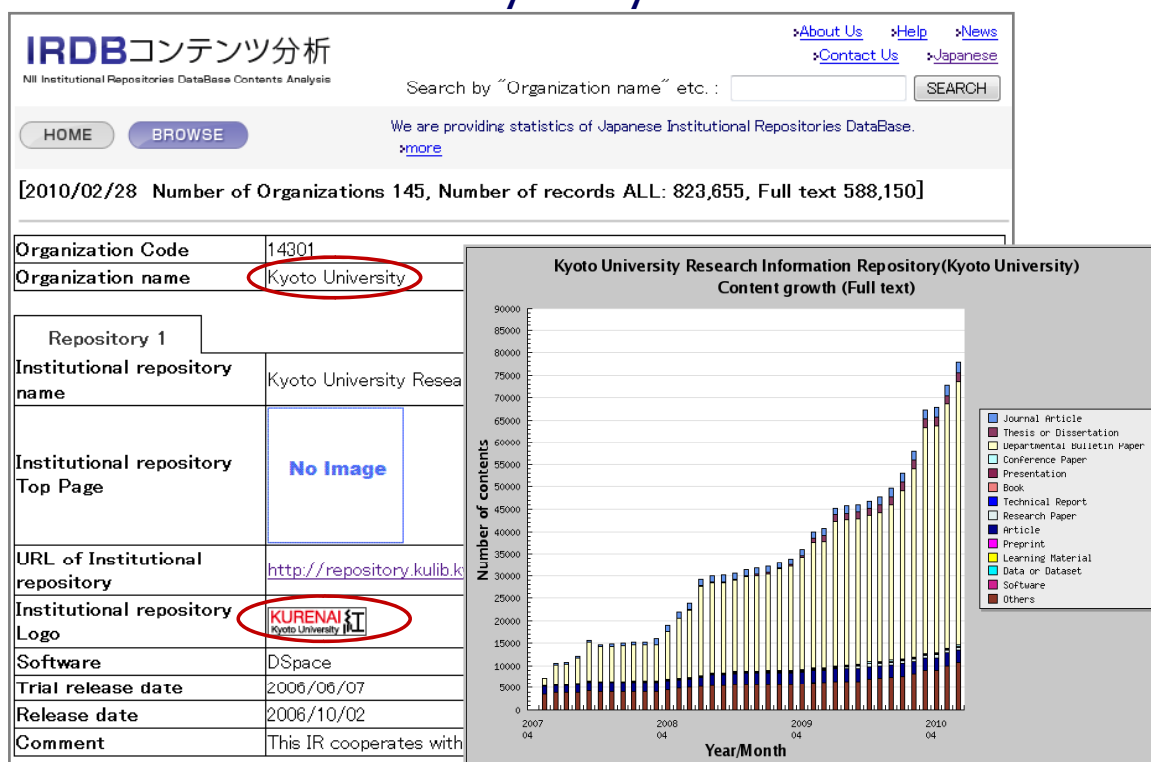
**Contents used well**

Homma, Tetsushi  
A Generalized User-Revenue Model of Financial Firms under Dynamic Uncertainty: Equity Capital, Risk Adjustment, and the Conjectural User-Revenue Model  
Working Paper, Faculty of Economics University of Toyama, (229), 2008-06-05

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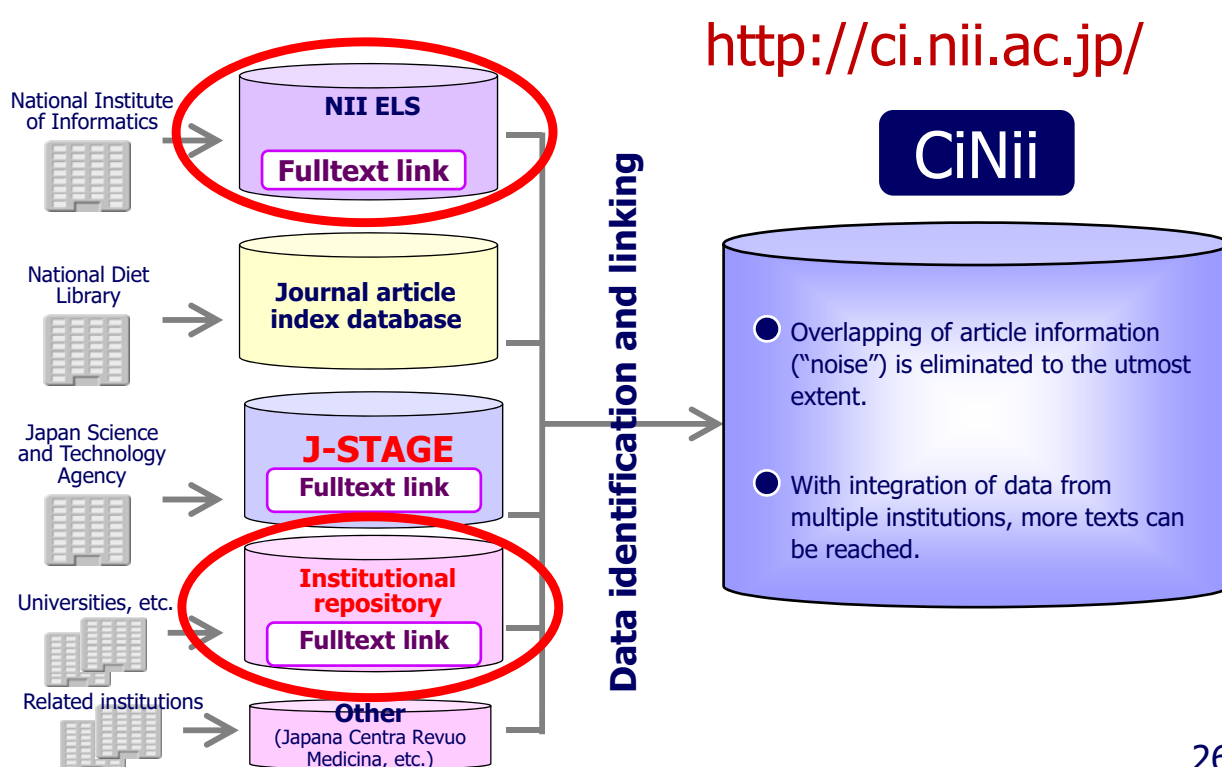
## Portal services of Japanese IRs (3)

### IRDB Content Analysis System



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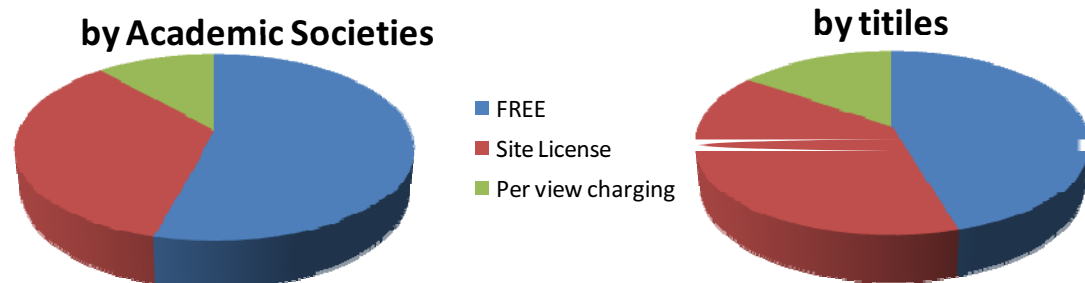
## Metadata Integration of Bibliographic Databases



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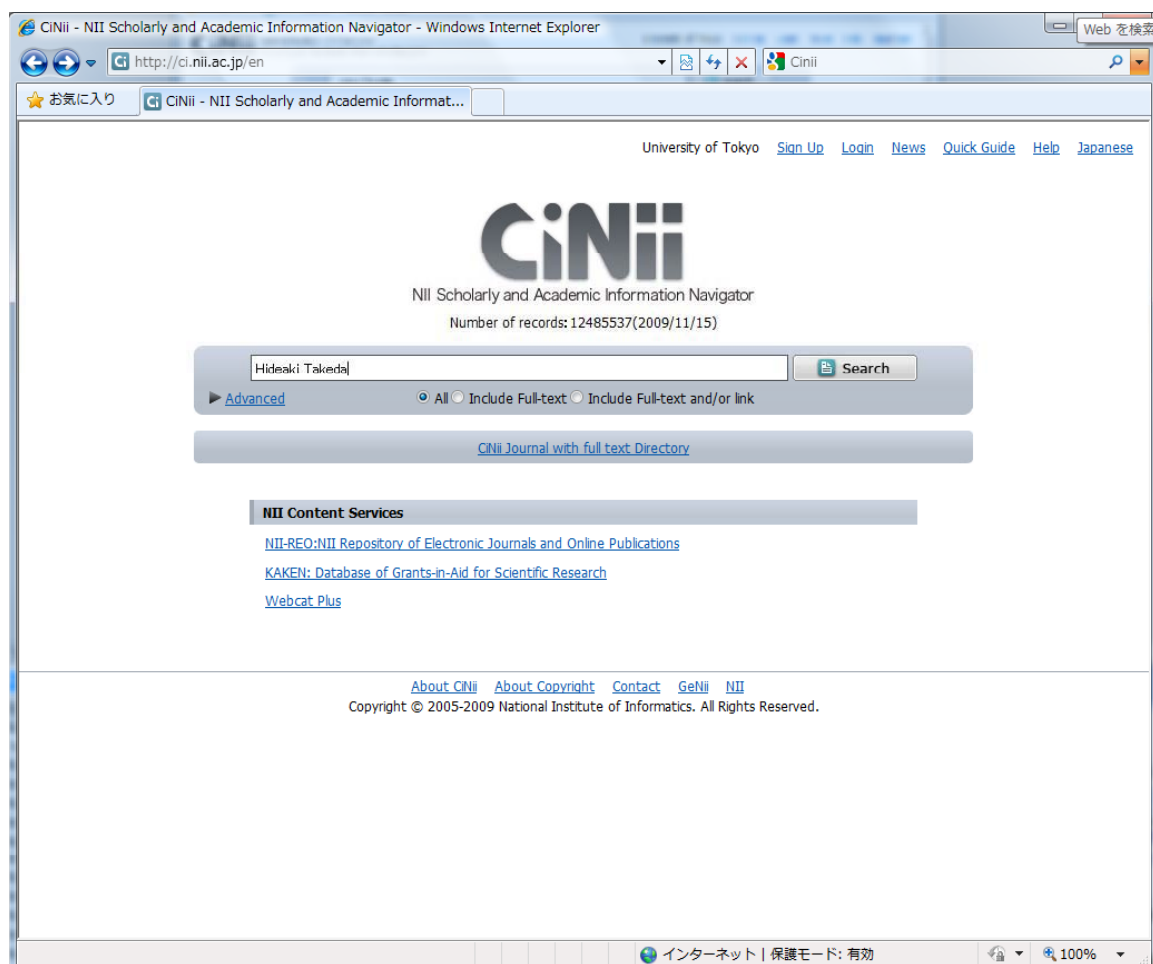
# Open access to more than half of all full-text articles

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

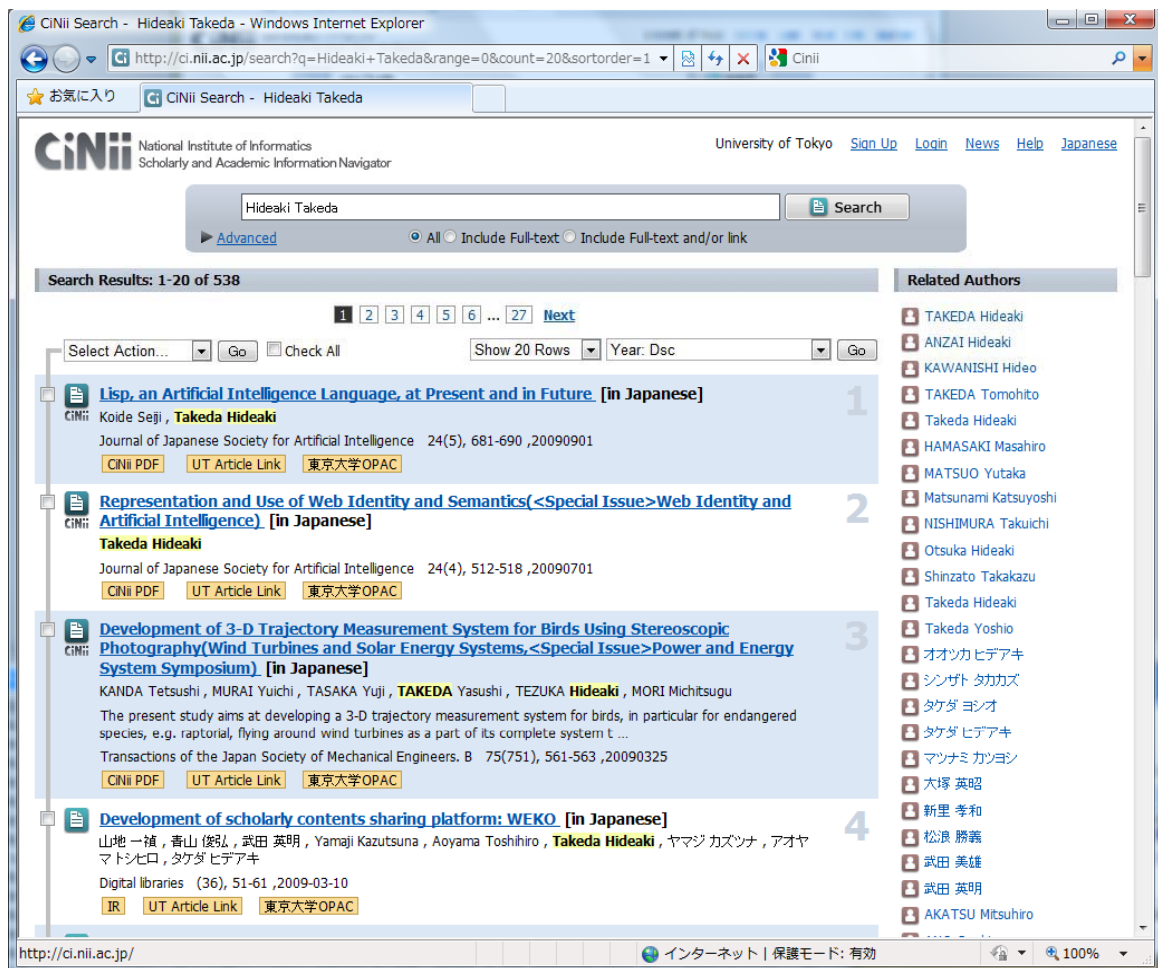


	Conference proceedings	Journal titles	Articles
Completely free	178	462	1,680,000 (62%)
Site License	113	401	771,000 (26%)
Per-view charging	38	156	339,000 (12%)

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## KAKEN – the front page



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# KAKEN – a project report page

[illegible]

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# KAKEN – a researcher page

**Researcher**

**Affiliation**

**Research Fields**

**Research Keywords**

**Related Projects**

**Collaborators**

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# Mashups of Services

## ■ Linkage from CiNii metadata to fulltext in IR

The screenshot displays a web interface for linking CiNii metadata to fulltext in IR. The interface is divided into several sections:

- Left Sidebar:** Contains the 'CiNii' logo and a list of links including 'HOME', '論文詳細情報', '大学図書館研究', 'Journal of college and university libraries', 'Vol.70(2004/2005) pp.1-8', '大学図書館研究編集委員会 ISSN0386000', '書誌情報', '国立大学図書館の課題と解決', 'Challenges Facing Japanese National Universities and Potential Solutions', '有川 節夫', 'Arikawa Setsuo', and '九州大学副学長、附属図書館長'.
- Main Content Area:** Features the 'QIR' logo and a table of items. The table has columns for 'ファイル' (File), '記述' (Description), 'サイズ' (Size), and 'フォーマット' (Format). The first row shows 'toshokan\_kienkyu\_70.pdf', '9195Kb', and 'Adobe PDF'. A red arrow points from the 'CiNii' sidebar to the 'QIR' sidebar, and another red arrow points from the 'QIR' sidebar to the '九州大学' sidebar. A pink callout box labeled 'Link to the IR' points to a '本文を読む' (Read the full text) button. A blue callout box labeled 'Link to the fulltext' points to a '全文を見る' (View full text) button.
- Right Sidebar:** Contains the '九州大学' logo and a list of links including 'HOME', '大学図書館研究', 'Journal of college and university libraries', 'Vol.70(2004/2005) pp.1-8', '大学図書館研究編集委員会 ISSN0386000', '書誌情報', '国立大学図書館の課題と解決', 'Challenges Facing Japanese National Universities and Potential Solutions', '有川 節夫', 'Arikawa Setsuo', and '九州大学副学長、附属図書館長'.

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## Archives

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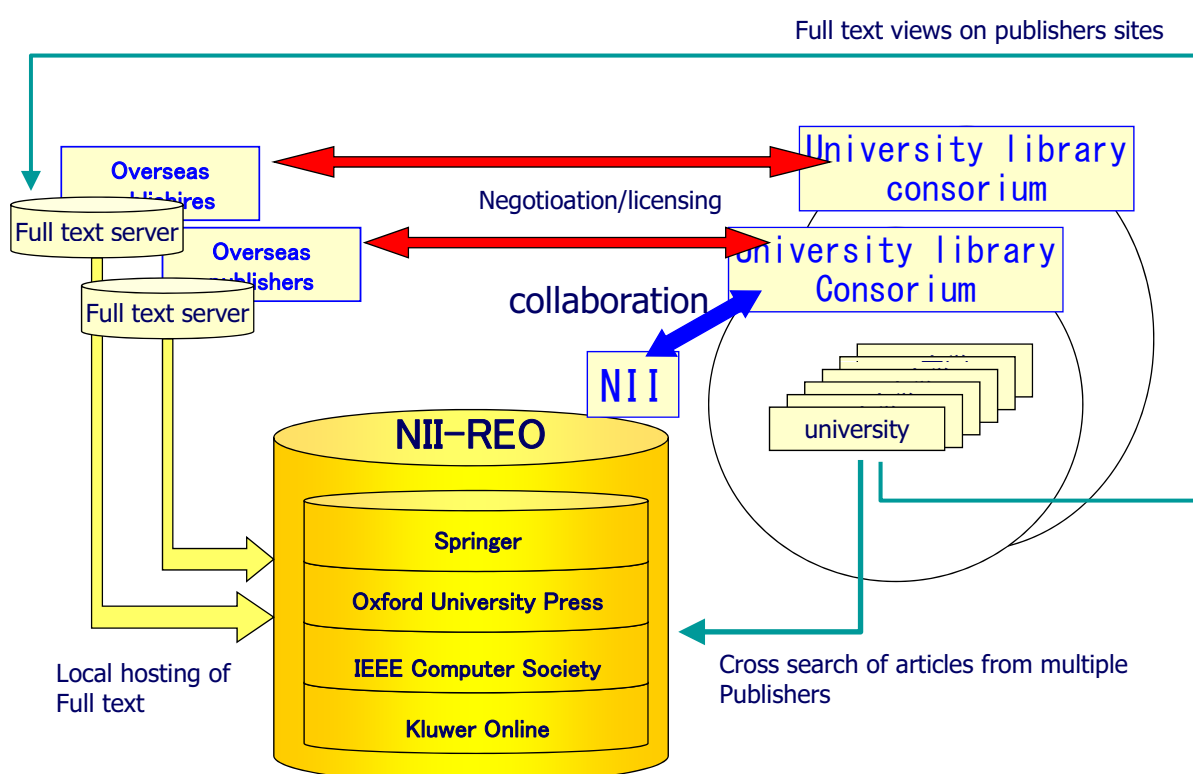
# Scholarly Information Archives at NII

## ■ NII-REO: e-journal repository (2003 - )

- The archives of e-journals that multiple universities and consortia have made licensing contract with publishers. Digital contents are stored in the NII server.
- Affordable licensing fee
- Achieve local hosting and long term preservation
- **Light archive** (Libraries can use contents anytime)
- Metadata is available without fee and licensing
- **Publishers:** *Springer* (1847-1996), *OUP* (1849-2003), *IEEE Computer Society* (1988-2008)
- **Number of articles:** about 3.56 millions

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## NII-REO System concept



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# Archives Now and for the Future

## □ More databases

- Large digital collections such as those in humanities and social sciences

- ◆ HCPP

- ◆ Making of the Modern World

## □ Extension of archive period with more recent articles

## □ International collaboration

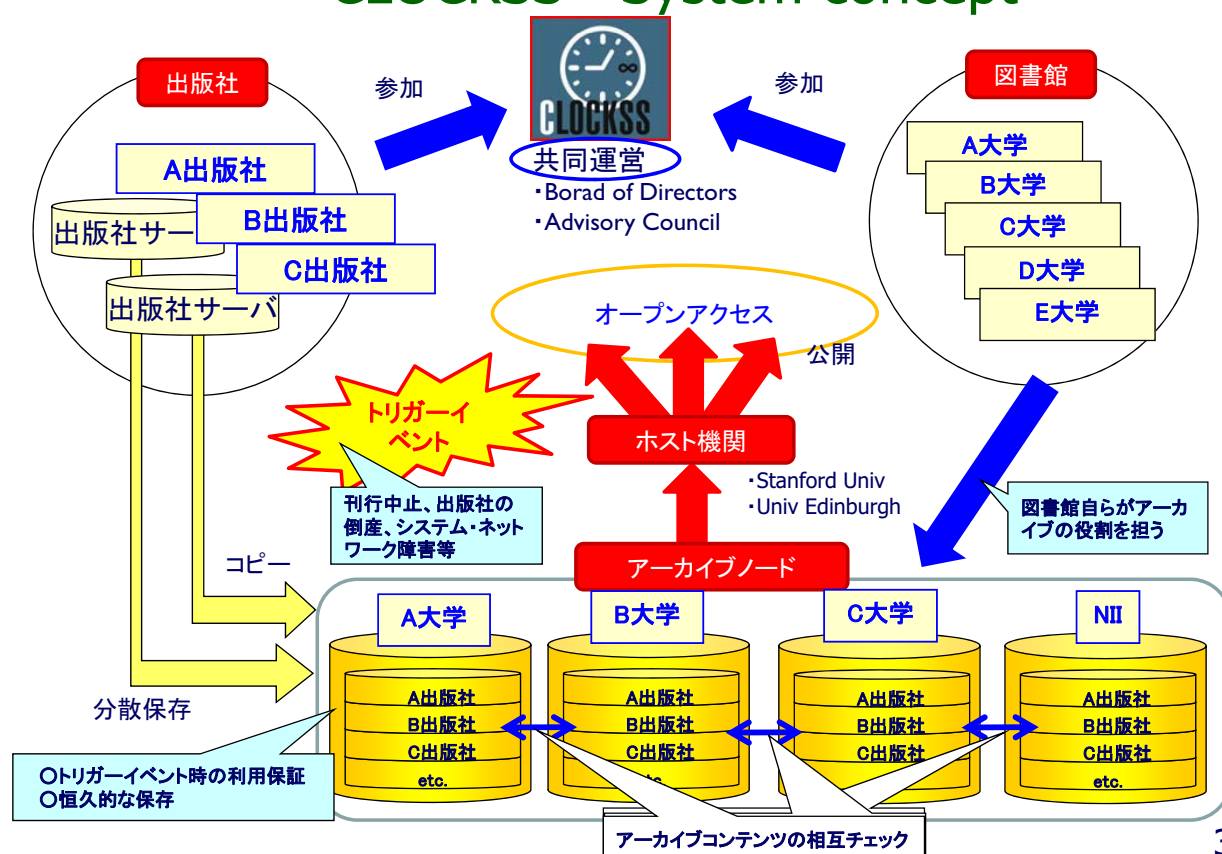
- Participation in CLOCKSS (February 2009 - )

- ◆ NII provides an Asian node since March 2010.

- ◆ 21 Japanese libraries have joined to CLOCKSS as of February 2011.

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## CLOCKSS - System concept



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## Summing-up

- ❑ International collaboration and harmonization
- ❑ Institutional Repositories:
  - More discussion and more advocacy for institutionalization
  - Smarter measures to encourage self-archiving
- ❑ Enrich digital archives for more sustainable accesses
- ❑ Human resources for new activities
  - Strengthen the collaboration among university libraries

Thank you for your attention!