OA as driving force to make library services more patron-centered
The projected future of Japanese academic library landscape

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Outline

- Current status of IRs in Japan
  - Increase in the number of IRs and content deposited
  - Portal services of Japanese IRs

- OA and the changing roles of research libraries
  - Internal efforts for reform
  - Externally expanding roles

- Landscape of the future
  - Prospects for IRP’s 3rd period (FY2010 – 2012)
    - 2nd period: FY2008-2009
  - New community based on the SPARC Japan and IRP
Realize the implications of IRs

- Researcher = reader + author

- Mr. Koichi Ojiro (Dec. 2006), DRF-ML
  http://drf.lib.hokudai.ac.jp/drf-ml/100/194.html

- “Librarians used to tend to regard faculty as more consumers (readers) than producers (authors). But librarians need to work more closely with them in promoting institutional repositories.”

- “One of greatest hidden benefits for libraries which are given from OA movement is a pleasure that librarians will derive new ideas for expanding services through closer contact with teaching and research faculties as producers (authors).”
The number of IRs in JAPAN

Dec. 2006 28 IRs

Jun. 2010 183 IRs

6 times in 3.5 years!
Growth of IRs and content deposited -2

World total: 1696
- Japan is the fourth with 79

Proportion of Repositories by Country Worldwide

- United States (371 = 22%)
- United Kingdom (176 = 10%)
- Germany (140 = 8%)
- Japan (79 = 5%)
- Australia (63 = 4%)
- Spain (63 = 4%)
- France (55 = 3%)
- Italy (55 = 3%)
- [85 Others (694 = 41%)]

Total = 1696 repositories

OpenDOAR 01-Jul-2010

Open DOAR: Directory of Open Access Repositories
http://www.opendoar.org/ (2010/07/01)

Actually, Japan is the 2nd with 183
Breakdown by kinds of universities and colleges (June. 2010)

<table>
<thead>
<tr>
<th>IRs</th>
<th>Number of universities and colleges</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(A)</td>
<td>(B)</td>
</tr>
<tr>
<td>National</td>
<td>*75</td>
<td>86</td>
</tr>
<tr>
<td>Public</td>
<td>**16</td>
<td>92</td>
</tr>
<tr>
<td>Private</td>
<td>***59</td>
<td>595</td>
</tr>
<tr>
<td>Subtotal</td>
<td>150</td>
<td>773</td>
</tr>
<tr>
<td>Others</td>
<td>****33</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>183</td>
<td>-</td>
</tr>
</tbody>
</table>

- 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 31 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](http://www.lib.hiroshima-u.ac.jp/share/share.html)
Number of materials deposited

NII Institutional Repositories Database Contents Analysis
(2010/06/30  Number of Organizations 155, Number of records: 946,801)

<table>
<thead>
<tr>
<th>content types</th>
<th>Number of records</th>
<th>Ratio of full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Article</td>
<td>222,926</td>
<td>43.5%</td>
</tr>
<tr>
<td>Thesis or Dissertation</td>
<td>46,426</td>
<td>72.9%</td>
</tr>
<tr>
<td>Departmental Bulletin Paper</td>
<td>414,306</td>
<td>88.5%</td>
</tr>
<tr>
<td>Conference Paper</td>
<td>56,059</td>
<td>18.5%</td>
</tr>
<tr>
<td>Presentation</td>
<td>7,545</td>
<td>33.6%</td>
</tr>
<tr>
<td>Book</td>
<td>17,841</td>
<td>45.8%</td>
</tr>
<tr>
<td>Technical Report</td>
<td>5,792</td>
<td>85.2%</td>
</tr>
<tr>
<td>Research Paper</td>
<td>16,256</td>
<td>86.6%</td>
</tr>
<tr>
<td>Article</td>
<td>37,304</td>
<td>82.1%</td>
</tr>
<tr>
<td>Preprint</td>
<td>323</td>
<td>90.1%</td>
</tr>
<tr>
<td>Learning Material</td>
<td>5,137</td>
<td>35.4%</td>
</tr>
<tr>
<td>Data or Dataset</td>
<td>7,019</td>
<td>98.0%</td>
</tr>
<tr>
<td>Software</td>
<td>8</td>
<td>25.0%</td>
</tr>
<tr>
<td>Others</td>
<td>109,859</td>
<td>92.5%</td>
</tr>
<tr>
<td>SUM</td>
<td>946,801</td>
<td>71.7%</td>
</tr>
</tbody>
</table>

NII Institutional Repositories Database Contents Analysis
http://irdb.nii.ac.jp/analysis/index_e.php (Last accessed: 2010/07/01)
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 content is growing and gives details about 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 “Dublin Core” application profile for institutional repository with a OpenURL compliant schema.
- It has been adopted by almost all IRs in Japan.

Portal services of Japanese IRs -2

JAIRO: Japanese Institutional Repositories Online

- Simple Search
- Advanced Search

Narrow search by content type

Narrow search by organization

To know the detail of each IR

News
- You can search Institutional Repositories in Japan → more
- JAIRO is now able to be searched from PORTA. (2009/08/12)
- NII launched JAIRO. (2009/04/01)

Content types
- Journal Article (225,808)
- Departmental Bulletin Paper (419,070)
- Presentation (8,413)
- Technical Report (5,039)
- Article (37,380)
- Learning Material (5,145)
- Software (8)
- Thesis or Dissertation (46,684)
- Conference Paper (56,355)
- Book (18,034)
- Research Paper (16,461)
- Preprint (327)
- Data or Dataset (11,261)
- Others (112,798)

Organizations
- Display

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

About contents of JAIRO
- NII Institutional Repository Program
- Current IRs in Japan

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 Tsushima, (229), 2009-06-05
Portal services of Japanese IRs -3

IRDB Content Analysis System

Search by “Organization name” etc.:

We are providing statistics of Japanese Institutional Repositories Database.

[2010/02/28  Number of Organizations 145, Number of records ALL: 823,855, Full text 588,150]

Organization Code 14301
Organization name Kyoto University

Kyoto University Research Information Repository

Content growth (Full text)

URL of Institutional repository

Institutional repository Top Page

No Image

Software DSpace
Trial release date 2006/06/07
Release date 2006/10/02
Comment This IR cooperates with...
The case of Kyoto university’s IR “KURENAI”

- Policies of Kyoto university’s IR “KURENAI”

**Breakdown of content by resource type (ratio)**

<table>
<thead>
<tr>
<th>Resource Type</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Article</td>
<td>3.0%</td>
</tr>
<tr>
<td>Thesis or Dissertation</td>
<td>2.5%</td>
</tr>
<tr>
<td>Departmental Bulletin Paper</td>
<td>75.8%</td>
</tr>
<tr>
<td>Conference Paper</td>
<td>0.3%</td>
</tr>
<tr>
<td>Presentation</td>
<td>0.1%</td>
</tr>
<tr>
<td>Book</td>
<td>0.1%</td>
</tr>
<tr>
<td>Technical Report</td>
<td>0.1%</td>
</tr>
<tr>
<td>Research Paper</td>
<td>0.0%</td>
</tr>
<tr>
<td>Article</td>
<td>3.6%</td>
</tr>
<tr>
<td>Preprint</td>
<td>0.0%</td>
</tr>
<tr>
<td>Learning Material</td>
<td>0.0%</td>
</tr>
<tr>
<td>Data or Dataset</td>
<td>0.0%</td>
</tr>
<tr>
<td>Software</td>
<td>0.0%</td>
</tr>
<tr>
<td>Others</td>
<td>0.0%</td>
</tr>
<tr>
<td>SUM</td>
<td>100%</td>
</tr>
</tbody>
</table>

76% are Departmental Bulletin Papers

Support to publish more than 80 e-journals by using IR “KURENAI”

To timely deposit articles which have attracted attention as a showcase of the university.
Ex. Nobel prize article
Do you think the OA activities (including IR) are changing the roles of the research libraries?

Yes, I do! IR will be a new challenge and a great opportunity!

Two directions

- Internal efforts for reform
  - Research librarians reorganize their works and services
    - Shift the focus from service for readers to service for authors

- Externally expanding roles
  - Research librarians expand their roles outside the university
    - Create services for researchers as an author and an editor
Internal efforts for reform

- Inter-library loan/document delivery (ILL/DD) services in research libraries have rapidly decreased

Presumable causes that can be considered

- “Big Deal” of the foreign electronic journals
- OA activities; Many of house journals are digitalized and disseminated by IRs; user can get articles without using the ILL/DD service.

(Tutiya et al., Analysis provided by REFORM Project as of July, 2008)
“IR cures ILL” project (FY2008-2009)
Leading Institution; Otaru University of Commerce

- ILL/DD Transactions data analysis; number of requests of each article
  - A maximum of 118 requests were issued for one article.
    - It was a pleasure for authors of popular article.
    - They are in favor having the OA articles in IR.
  - One scan is better than 118 copies absolutely!
    - Benefit for libraries
      - Reduce the workload of ILDD duties by the increase of OA articles.
    - Benefit for readers
      - Save user’s time and money.
    - Benefit for authors
      - Know the impact of the articles
    - We can improve library service and can reduce our work!

Kill two birds with one stone!
Externally expanding roles

Supporting publishing on campus

- Kyoto University launched a peer reviewed e-only journal “Contemporary and applied philosophy” by using IR.
- Collaborate with “Japanese Association for the Contemporary and Applied Philosophy (JACAP)”
- System: DSpace and OJS

http://openjournals.kulib.kyoto-u.ac.jp/ojs/index.php/cap/index

One of the staff members in charge of operating “KURENAI” says:
“It was very informative to learn about the needs of smaller academic societies in the field of social sciences and humanities”

Create services for researchers as an author or an editor
NII-IRP (Institutional Repositories Program)

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

- 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)
  - Case study to accelerate the deposit of content (e.g. Theses and Dissertations, Government-funded research publications)
  - Development of new added-value services, etc.
- Area 3: next page
NII-IRP (Institutional Repositories Program) 3rd period (FY2010-2012)

Three categories of funding

- 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 low-cost system resources by provisioning cloud computing facilities such as an ASP (Application service provider) services.
A new community integrating SPARC Japan and NII-IRP

Yet another activity for the OA: SPARC Japan

- International Scholarly Communication Initiative
  - Named “SPARC Japan” in 2006 on the basis of MOU with ARL (Association of Research Libraries)

Goals

- Development of business models for the journals published by the Japanese academic societies
- Promotion of collaboration with research libraries
- Development of advocacy activities
A new community is emerging

- We are jointly planning seminars to learn from each other
- Function enhancement of the “Society Copyright Policies in Japan: SCPJ” database. (Leader Institution; Tsukuba University)
Regenerate the “Circle of Gift”

- Provide
- Support for OA activities

Researchers as authors and readers

Community of academia + Support by research libraries

- Collect
- Organize
- Stock
- Preserve

Academic societies
- Publish
- Delivery
- Added-value service

Research libraries
- Collect
- Organize
- Stock
- Preserve

Publishers
- Submit
- Peer review
- Edit

National Institute of Informatics
New horizon of the scholarly communication

Ocean of the scholarly communication

Researchers as readers and authors

Research libraries

Academic societies/publishers

Ship of OA

International Collaboration

Academic policy perspective

Research assessment exercise

Propeller of the “Ship of OA”

They are sailing the new horizon of the scholarly communication forward.
Thank you for your attention!

For more information…

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

E-mail : izumi@nii.ac.jp