The interim evaluation method of the national project for institutional repositories in Japan

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National Institute of Informatics (NII)

- Downtown Tokyo
- Established in April 2000
- Inter-university research institute specializing in informatics
- Also services on super-high speed network and scholarly information dissemination.
- Cyberscience infrastructure
CSI initiative aims at providing industrial and social contributions as well as a base for international cooperation on scientific research.

The initiative includes projects focusing on:
- networks,
- grid research,
- inter-university public key infrastructure (UPKI),
- and scholarly content services.
CSI: Cyberscience infrastructure

- Cyberscience infrastructure is crucial in international collaborations and competitions in science and industry.

Virtual research organization:
- Worldwide Software and DB
- Cultivation of human resources
- Accumulation of know-how

Provision of scientific contents and formulation of institutional repositories:
- By collaboration of NII and university libraries

Improvement of computing resources (e.g. next-generation super computers) in research institutions

Practical development of research grid

Development of security system for research institutions:
- By collaboration of NII and university computing centers

Formulation of next-generation scientific information network

Contribution to industry and society

International contribution and partnership

Middleware
Next-generation content infrastructure
Enforcement of formulation, assurance, and dissemination of scholarly contents under close connection among NII and universities

Social contribution
Scholarly community
International contribution

Dissemination
CSI (Cyber Science Infrastructure)
Network + Contents + research alliance

Scholarly contents
Digital repositories

Universities
Output of Academic activities
- Book and journal
- Articles
- Dissertation
- Project reports
- Educational material
- Patent
- Software
- Scientific DB
- Cultural asset DB etc

NII
NII-REO
NII-ELS
KAKEN
CAT
Springer, OUP...
Journal articles
Reports of Grant-in-aid research
Book and journal Indices
IR portal: Metadata From IRs

Collaboration
Dissemination
Stable availability

Secure
Joint introduction of library consortium and NII
Digitization
Crawling
harvesting

Academic publishers
Academic societies
web
Media
Background data: Japan

- 800,000 researchers in Japan (#3 in the world)
  --- including the Imperial Majesty Emperor Akihito
- 790,510 ISI journal articles 1996-2006 (#2 in the world)
- 744 universities in Japan
- 409 universities award Ph.D. degrees
- 16,000 obtain Ph.D. a year
Institutional repositories as the content layer in the Cyberscience Infrastructure

- 2004 experimental
  - 6 universities
  - software localization

- 2005 pilot: placed in the CSI framework
  - 19 universities
  - Implementation and initial operations

- 2006-2008 full-fledged initiative
  - The next-generation scientific information resources infrastructure.
2006: 2 project areas

1. Promotion of open access repositories in Japan
   - 57 universities out of 77 applications

2. 22 R&D projects to facilitate the dissemination of scholarly contents.
   - Carried out by 37 universities

- Budget
  - 2006: 300 million JPY (2.6 million USD, 18M SEK)
22 R&D projects

- Connection to link resolvers: OA-counterpart of CrossRef
- Integrated search
- Multi-type data
- Connection to faculty performance database
- IR community development
- Copyright policies of Japanese academic journals
- XooNIps library module
- E-publication on IR
- Development of IR evaluation methods...
The interim evaluation

- February to March 2007
- 2 evaluation committees: one for promotional projects, the other for R&D projects
- 3 committee members evaluate each project
- 4 ranks:
  - Excellent; recommend a presentation at the debriefing session
  - Good: progress as planned
  - Fair: progress behind the initial plan, but retrievable
  - Poor: progress delay; need to discuss possibility of cessation
Evaluation of promotional projects

- Evaluation methods for IR operations developed by a commissioned project (Chiba and Mie Universities)
  - System
  - Institutionalization
  - Marketing activities
  - Input

- To recognize various activities and encourage them in working on IRs
Checklist: system

- Date of system choice, software
- Installation
- Date of NII harvesting
- Experimental release date
- Release date
- Cost
  - Initial
  - Maintenance
  - Development
Checklist: Institutionalization

- Agreement of board meeting
- Documentation of IR implementation
- Documentation of operation regulations
- University-level committee to implement and operate an IR
- Administrative structure to implement and operate an IR
Checklist: Marketing activities

- Release memorial event
- Briefing sessions for researchers
- Individual briefing at labs
- Presentations at
  - international workshops
  - Domestic workshops
- Organization of workshops
- Registration to repository directories (DOAR, ROAR)
- Registration to search engines (OAIster, Google Scholar, Scirus….)
Checklist: input

- Increase of number of contents by types
- Overlay journals
- FTE and tasks carried out by regular member
- Cost of content creation (digitization, metadata…)
- Other personnel cost
- Number and percentage of faculty members who deposit any contents
IRs in Japan in 2006

4 IRs when the project began

44 IRs as of May 31, 2007
IRs in Japan in 2006

- DSpace is prevailing (34)
- 1.2 FTE on average
- 281,055 items prepared for IRs
  - 46.2%: departmental bulletin articles
  - 41.9%: special collections and miscellaneous
  - 5.9%: journal articles
Success stories in 2006

- Ochanomizu University: Almost 100% of faculty members provide an item
- Shinsyu University: IR as a component of united campus information system; open source development.
- Consortia in 5 areas--- e.g.
  - Area studies (Hiroshima, Nagasaki),
  - Collaboration with city library (Okayama)
Evaluation of R&D projects

- 2006: 22 projects
  - Task progress, compared to the initial plan
  - Outgrowth: effects on other academic institutions, not just on those in charge
  - Feasibility of future plan (2007 and after)

- Subject to reorganization
  - Similar projects
  - Low influence to other academic institutions
    - System development
    - Content development
Commissioned project integration: 9 projects
- Integration and presentation of contents of various types
- Connection to faculty performance database
- IR community development
- Connection to link-resolvers
- Copyright policy database
- XooNIps library module
- IR evaluation methods
- T2R2: Unified academic information system

13 new partners

In NII
- Electronic dissertations and theses
  - See our presentation at ETD 2007
- Research data in IR

2007: 260 million JPY (2.2M USD, 15M SEK)