

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**



Cyberscience infrastructure (CSI)

- ❑ 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

NII

Universities

Collaboration

Digital repositories

Output of Academic activities

Dissemination

Accumulation

Stable availability

Activation

Secure

Joint introduction of library consortium and NII

Digitization

Crawling

harvesting

Academic publishers

Academic societies

web

Media

Background data: Japan

- ❑ 8 00,000 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

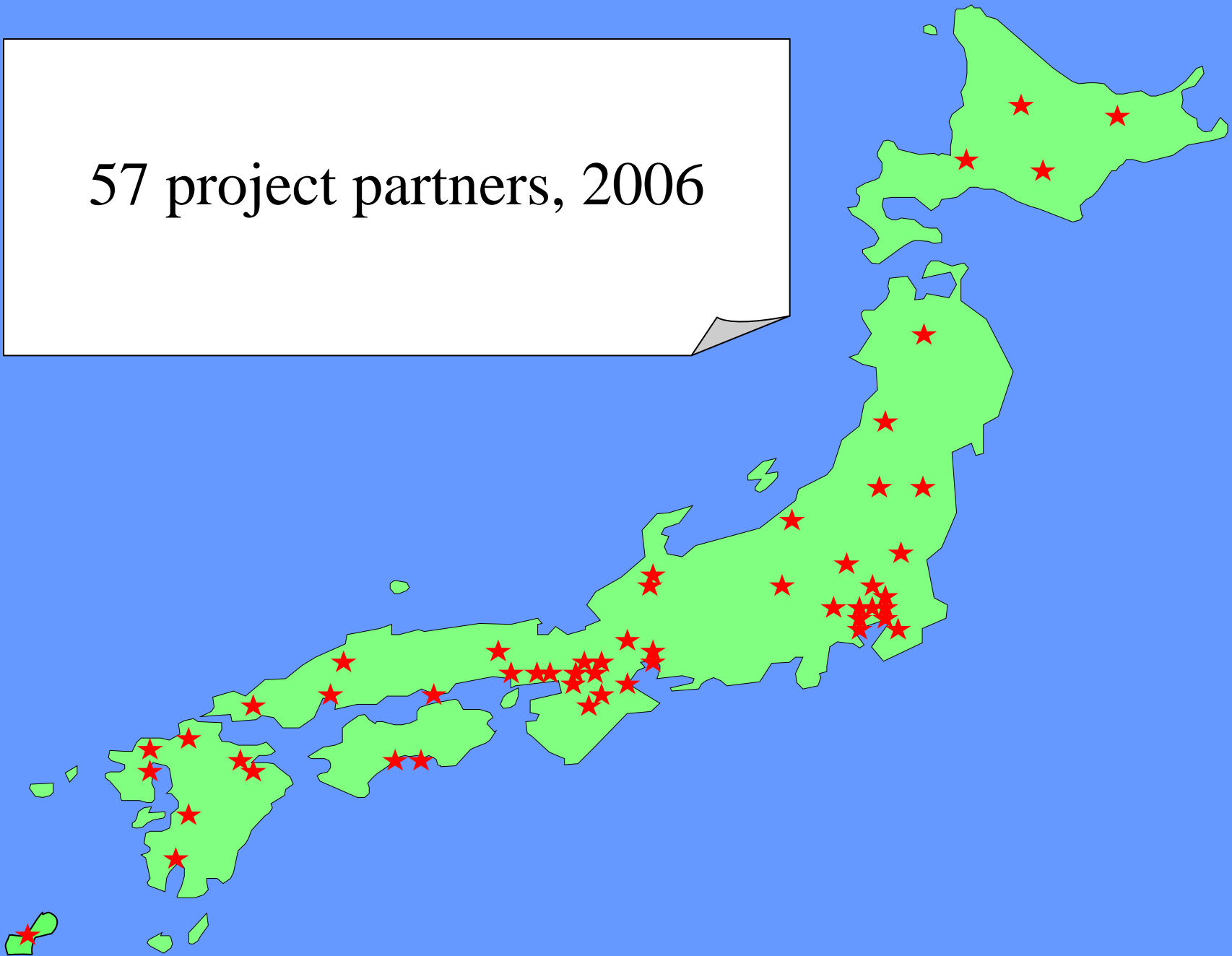
2. 22 R&D projects to facilitate the dissemination of scholarly contents.

- Carried out by 37 universities

□ Budget

- 2006: 300 million JPY (2.6 million USD, 18M SEK)

57 project partners, 2006



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
- ❑ XooNlps 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

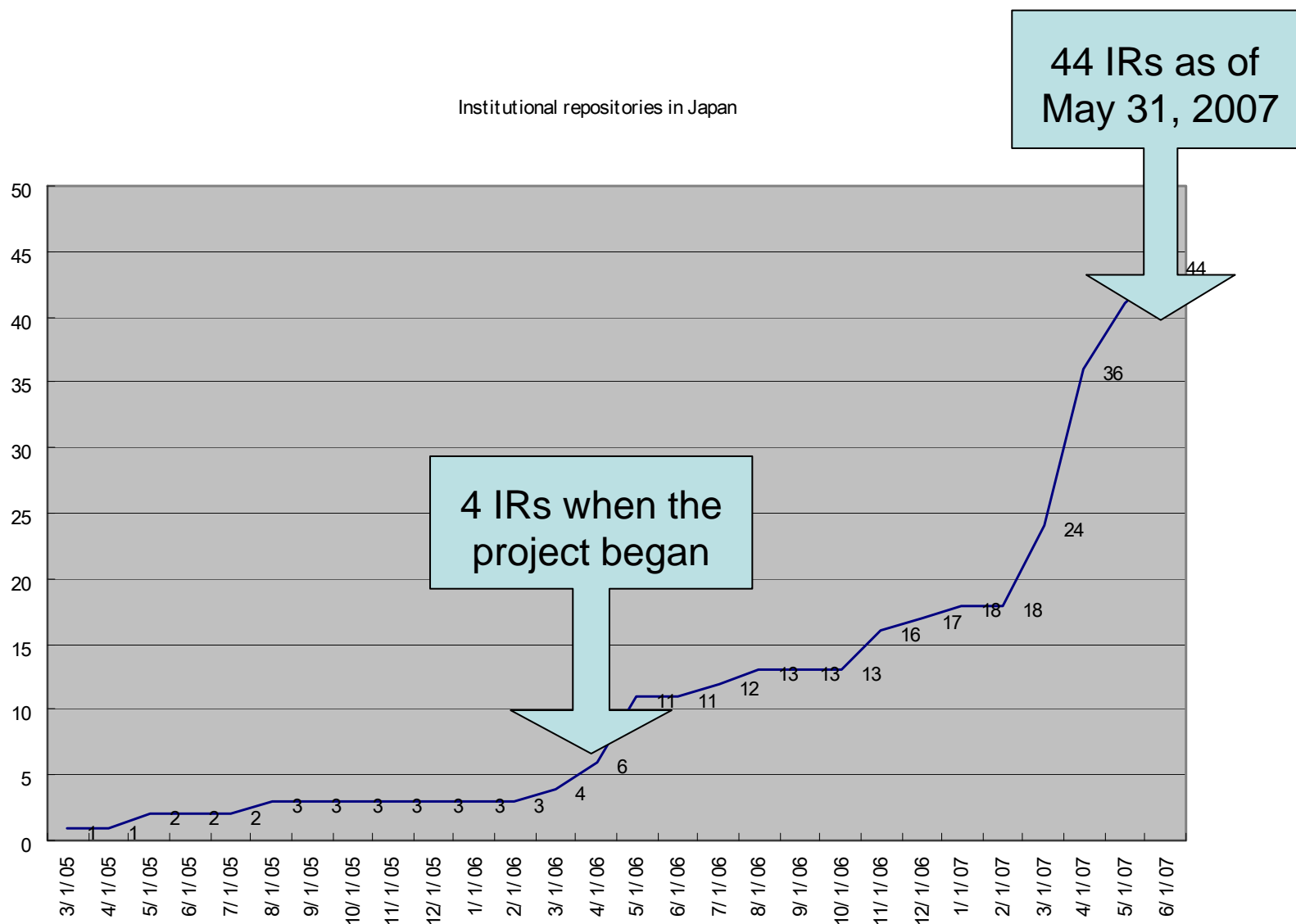
Checklist: Marketing activities

- ❑ 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 (OAlster, 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



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

2007-2008

- ❑ 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
 - XooNlps 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)