

# DISSERTATIONS AND THESES ON INSTITUTIONAL REPOSITORIES: A CASE IN JAPAN

**Izumi Sugita**  
**Yuko Murakami**  
**National Institute of Informatics, Japan**



# Background data: Japan

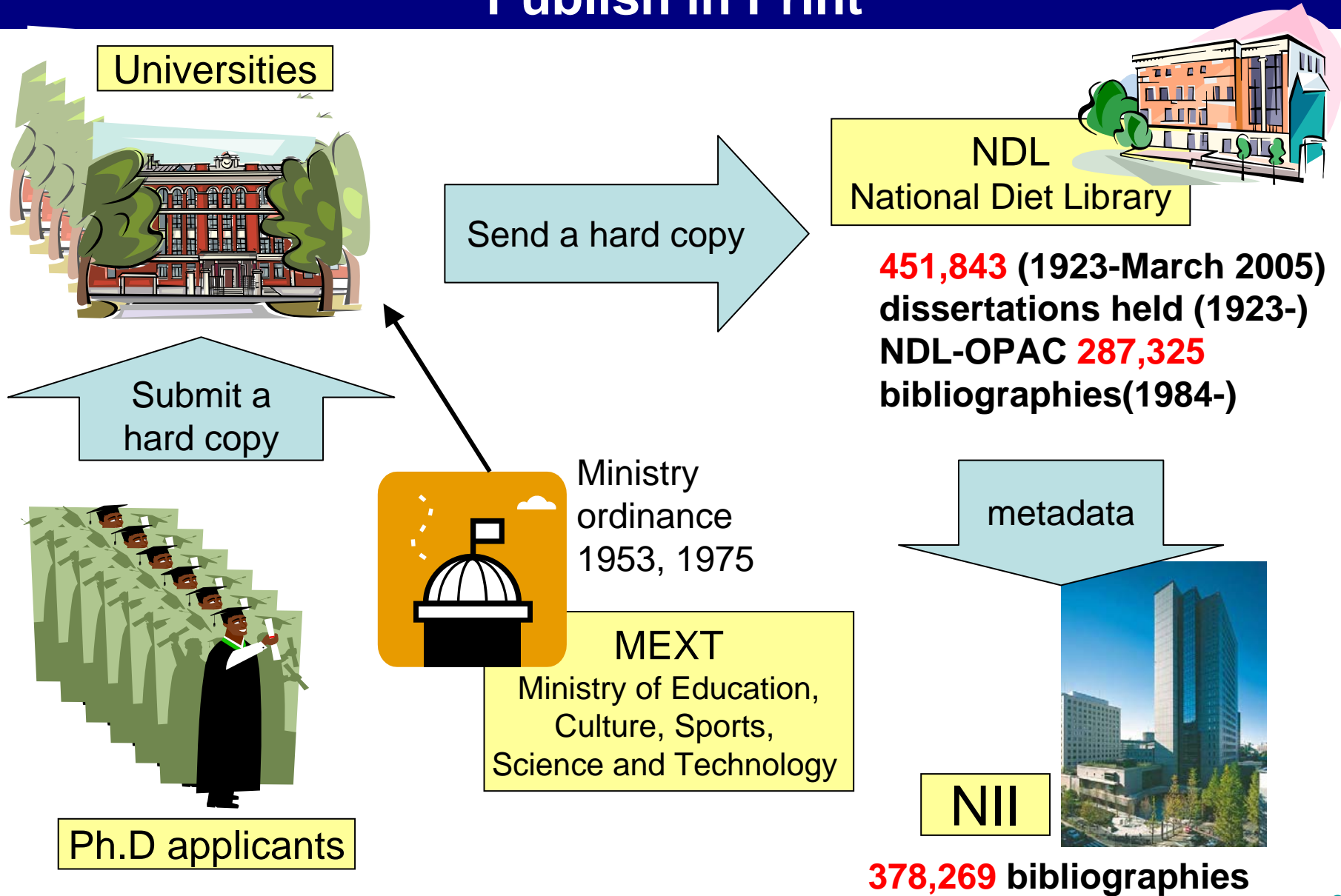
- 800,000 researchers in Japan  
(#3 in the world)  
--- including the  
**His Imperial Majesty  
Emperor “AKIHITO “** [news](#)



- 790,510 ISI journal articles 1996-2006  
(#2 in the world)
- 744 universities in Japan
- 409 universities have Ph.D. awarding institutions
- 16,000 obtain Ph.D. a year

# Current Dissemination of Dissertations in JAPAN

## “Publish in Print”



# Virtual Unavailability

- Printed full-text dissertations held in
  - The university awarding the degree
  - And the National Diet Library (NDL)
- Unhappy facts
  - Poor accessibility to bound copies
  - Not available in the national union catalogue
  - Only partial photocopy

**PUBLISHED**  
**“GRAY LITERATURE”**

# HALL of SHAME to opposed to FAME

- ❑ Virtually impossible to find and use dissertations
  
- ❑ Orphaned and unsearchable abstracts
  
- ❑ ETD in DL (Digital Library; electronic library) in 1990s did not facilitate usage of dissertations
  - Lack of interoperability

# A Fresh Restart

1. NII's Cyberscience infrastructure (CSI)
  - Next-generation high-speed network, called SINET (Launched on June 1 2007);
  - Research grid initiative called NAREGI;
  - Public key infrastructure and authentication system initiative (PKI);
  - Academic digital contents projects (NII-IRP).
2. Universities launch institutional repositories
3. Dissertations are interested
4. Some dissertations are heavily used

# ◎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

NII

Scholarly contents

Universities

Collaboration

Dissemination

Stable availability

Digital repositories

Output of Academic activities

- Book and journal
- Articles
- Dissertation
- Project reports
- Educational material
- Patent
- Software
- Scientific DB
- Cultural asset DB etc

Accumulation

Activation

secure

Joint introduction of library consortium and NII

Digitization

Crawling

harvesting

Scholarly publishers

Academic societies

web

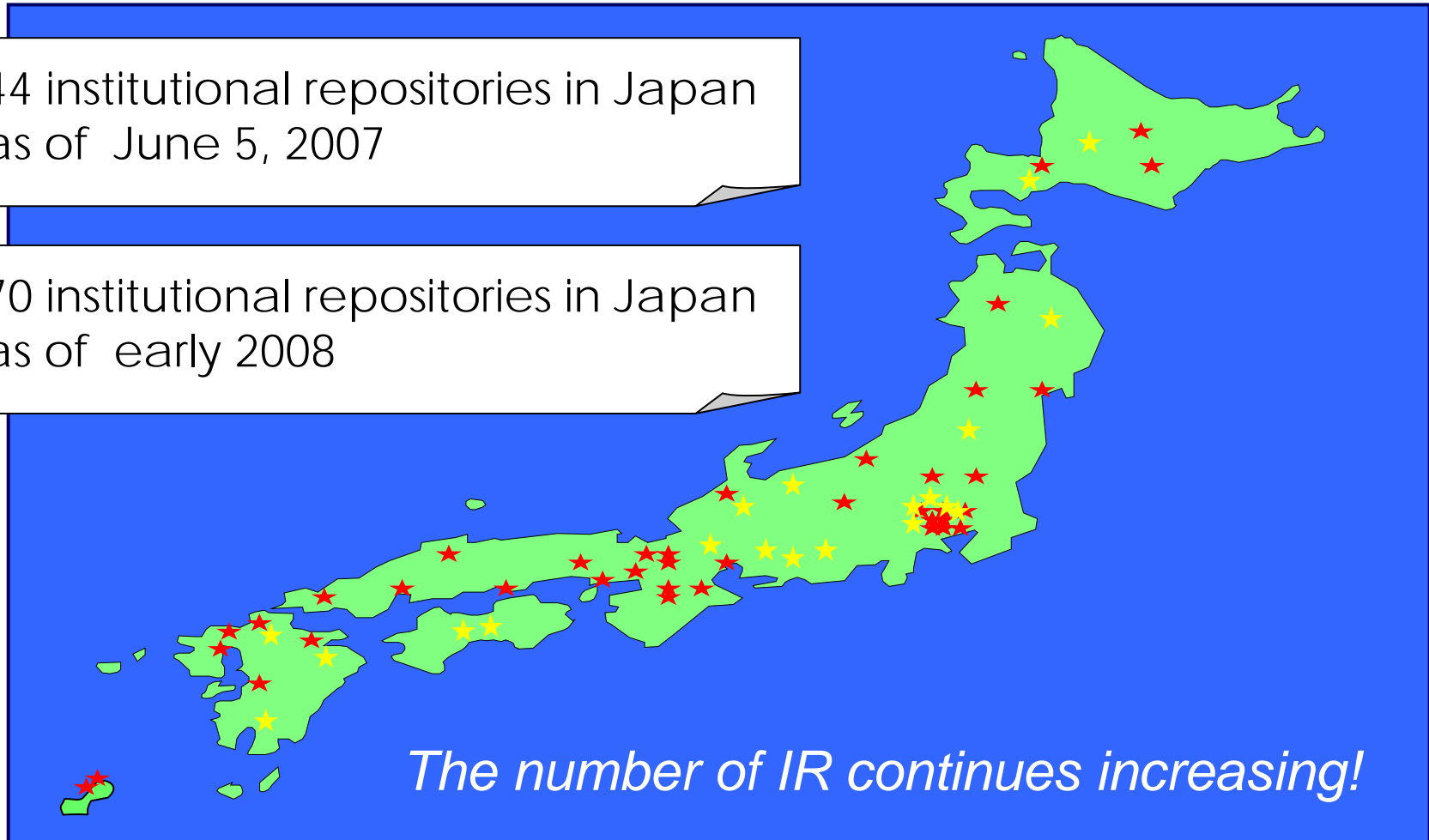
Media

# Institutional Repositories in Japan

- ❑ 44 IR in Japan (70+ in early 2008)
- ❑ Accumulate more than 281,000 items

44 institutional repositories in Japan  
as of June 5, 2007

70 institutional repositories in Japan  
as of early 2008



*The number of IR continues increasing!*



# ETD in Institutional Repositories in Japan

- 28 universities prepared e-theses for IR
- 4,469 full-text dissertations
  - 1% of all dissertations published in Japan in past
- 15,566 dissertation abstracts
- 370 appraisals of dissertations
- Metadata is in the process of standardization
  - Japanese dissertations metadata description documented by Hokkaido University based on the ETD-MS

JuNii+ URL <http://juniplus.csc.nii.ac.jp/>

- Testbed site / Only Japanese

# Dissertation wanted

- Researcher survey, Hokkaido University
  - 73.4% want dissertations by other researchers
  - 85.1% willing to have own dissertation read
  - 78.3% want e-dissertation
    - 46.5% positive on institutionalization
  - 57.6% want to deposit dissertation on IR



Marketing research on electronic dissertation

URI: <http://hdl.handle.net/2115/18639>

(Jan 2007)

**HUACAP:** Hokkaido Univ.'s IR

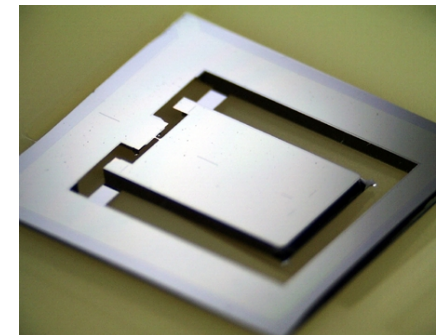
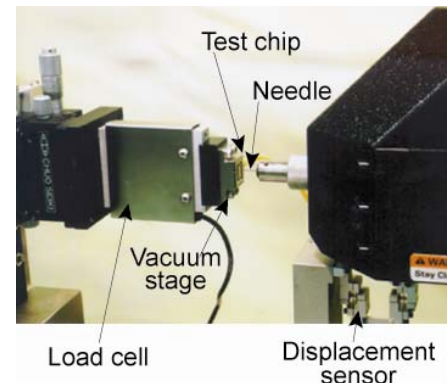
## □ Ando, Taeko

- "On-Chip Tensile Testing and Fatigue Testing Method of Thin-Film Materials "
- in Japanese



## □ Usage on Nagoya Repository

- May 2006-May 2007
- PDF download: 1079
- Metadata access: 154
- May 2007 only: 123 DL, 13 metadata access



- NII, MEXT, NDL, and associations of university libraries began discussion on ETD-related issues
  - Long-term preservation of ETD
  - possible amendments of degree rules to accept (or even mandate) electronic deposit of dissertations to universities and/or NDL
  - Feasibility of digitization of past dissertations

# Future dissemination of dissertations in Japan

