

# **National-wide Repository Network - Vision and Practice -**

Prof. Hideaki Takeda, Dr. Eng.,  
National Institute of Informatics (NII)  
[takeda@nii.ac.jp](mailto:takeda@nii.ac.jp)

# Repository Network What?



Network of Researchers

Network of Systems

Network of IR Managers

# Repository Network

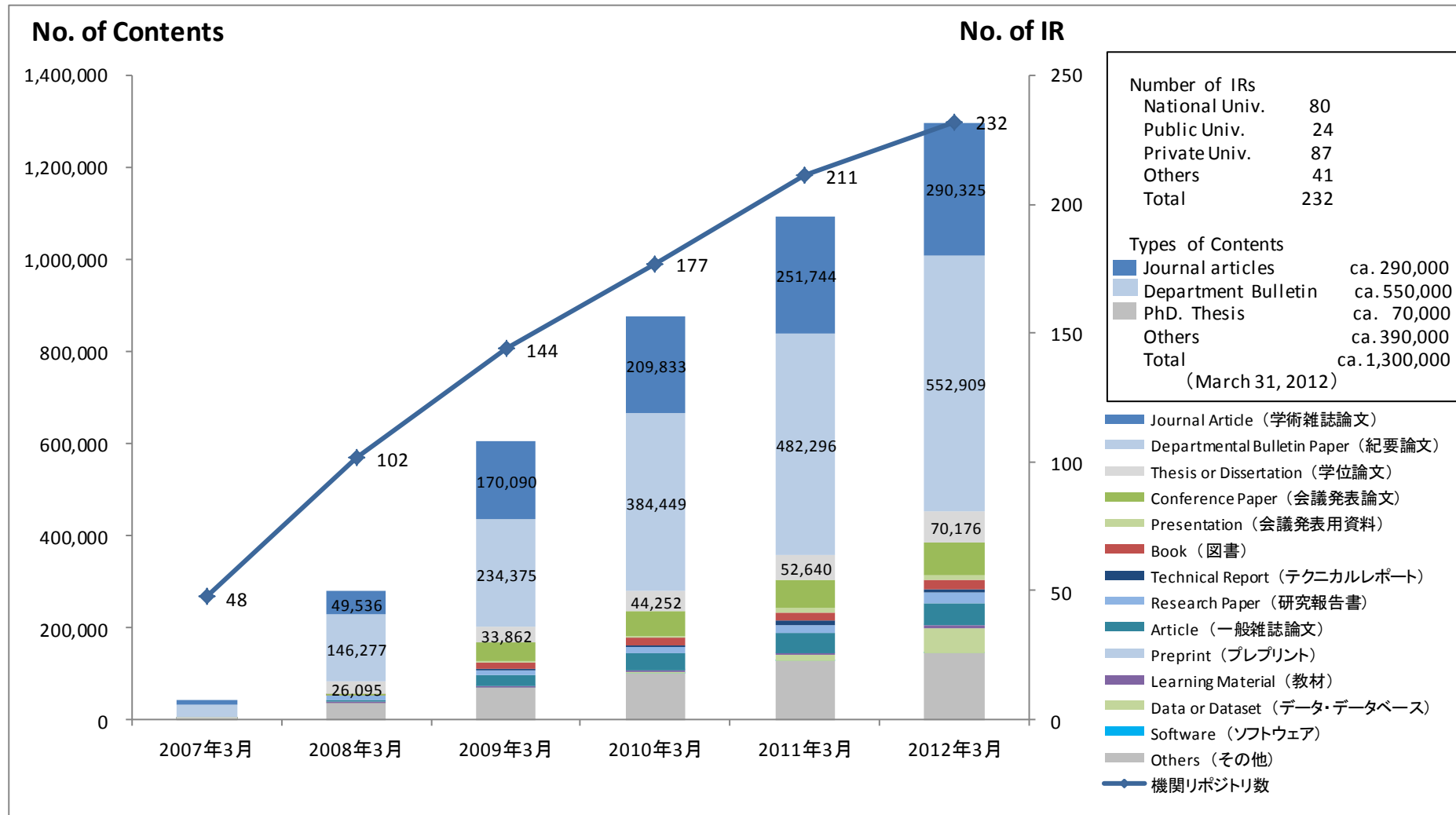
## What?

- Network of Researchers
  - Mobility of researchers
  - Collaboration among researchers
- Network of Systems
  - Data-level interoperability
  - System-level interoperability
  - Policy/statistics-level interoperability
- Network of IR Managers
  - Mobility of IR managers
  - Collaboration among IR managers

# Why National-wide network in Japan?

- Language
  - Language of contents
    - Over 80% of contents are written in Japanese
      - J:753,978, E:158,708
  - Language of IR managers
- Area of Mobility
  - Researchers/IR Managers
- Budget

# Growth of Institutional Repositories in Japan



# Repository Network

## How?

- Network of Researchers
  - Aggregation of contents -> **JAIRO**
  - Interoperability of Researchers
    - > **Researcher Name Resolver**
- Network of Systems
  - Cloud Service -> **JAIRO Cloud**
  - Policy-level interoperability -> **SPCJ**
  - Statistics-level interoperability -> **ROAT**
- Network of IR managers -> **DRF**

# Repository Network What?



Network of Researchers

Network of Systems

Network of IR Managers

# Researcher Name Resolver (RNS)

*- Switching Board for Researcher's ID -*





# Researcher Name Resolver (RNR)

- Identity service of researchers in Japan
  - Basic information of researchers with unique ID
  - links to researcher's web resources
- Basic Idea
  - Extend and use Kaken ID (given to researchers by MEXT)
  - Manual and Automatic mapping to ID systems in other services

<http://rns.nii.ac.jp/nr/1000010295694>

**Researcher ID (consistent with Kaken ID)**

The screenshot shows the RNR web page for researcher Shinya Yamanaoka. The page includes the following sections:

- Header:** "Resolver" logo, "ヘルプ" (Help), and "English" button.
- Researcher Information:** Name in Kanji (山中 伸弥), Katakana (ヤマナカ シンヤ), and English (Yamanaoka, Shinya). It also displays the Researcher ID (1000010295694) and the KAKENHI project number (10295694).
- Direct Links:** A row of buttons linking to external services: KAKEN, CINI, J-GLOBAL, ReaD&Researchmap, and the researcher's homepage.
- Search Results:** Two sections showing search results for the researcher's name in Japanese and English, with links to various services like CINI, Webcat Plus, ReaD&Researchmap, J-GLOBAL, Google Scholar, and Google.
- KAKENHI Project Research Fields:** A section titled "KAKENHI project research fields" listing various research areas.
- KAKENHI Project Keywords:** A section titled "KAKENHI project keywords" listing various keywords.
- URI:** A section at the bottom showing the URI for the page: <http://rns.nii.ac.jp/nr/1000010295694>.

Researcher name

(Kanji, Katakana, English character)

Researcher basic information

Direct links to the services outside

Search query formatted URL links to the services outside

KAKENHI project research fields

KAKENHI project keywords

URI for this page

198,861 researchers (27, Apr, 2012).

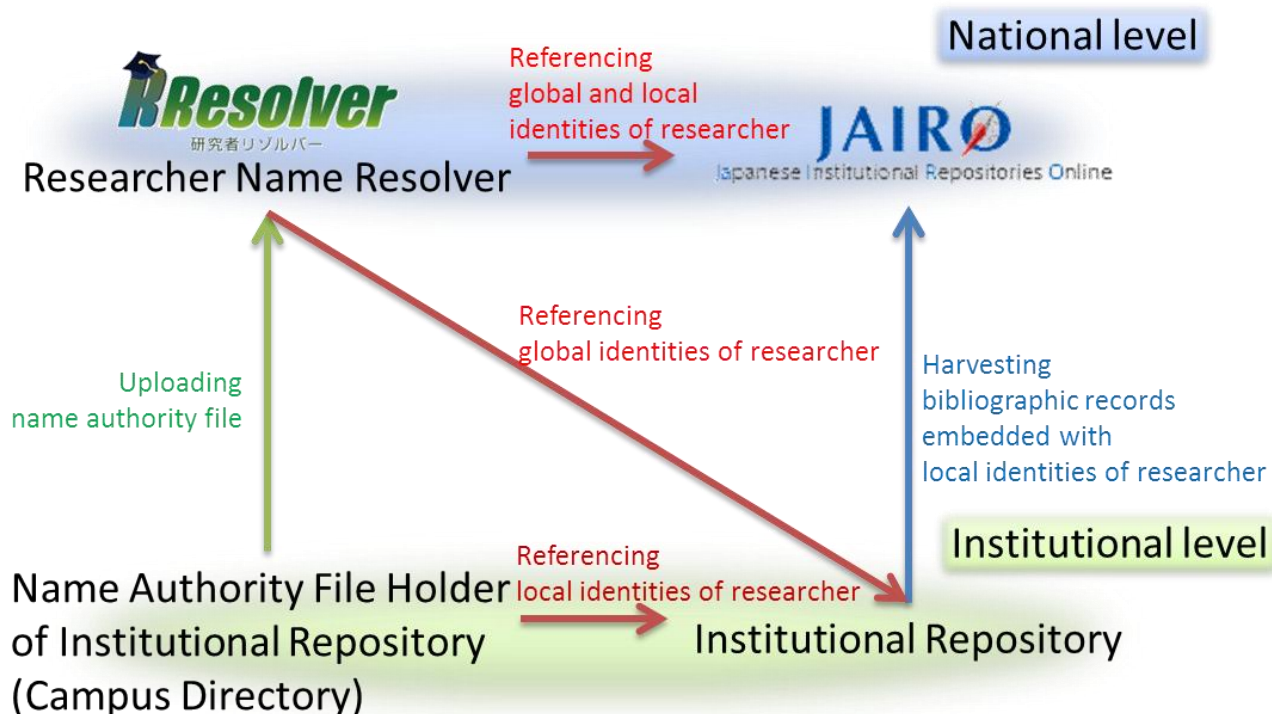
# Name Disambiguation Approach for Institutional Repositories in Japan

- Problem: How to coordinate local ID (institutional ID) with global ID?
  - Some IRs contain global ID as author ID
  - Some IRs contain local ID as author ID



# Name Disambiguation Framework for Federated Search Portal JAIRO

- This project aims at identifying authors in the federated search portal for Institutional Repositories in Japan which we call JAIRO (Japanese Institutional Repository Online).



# Repository Network What?

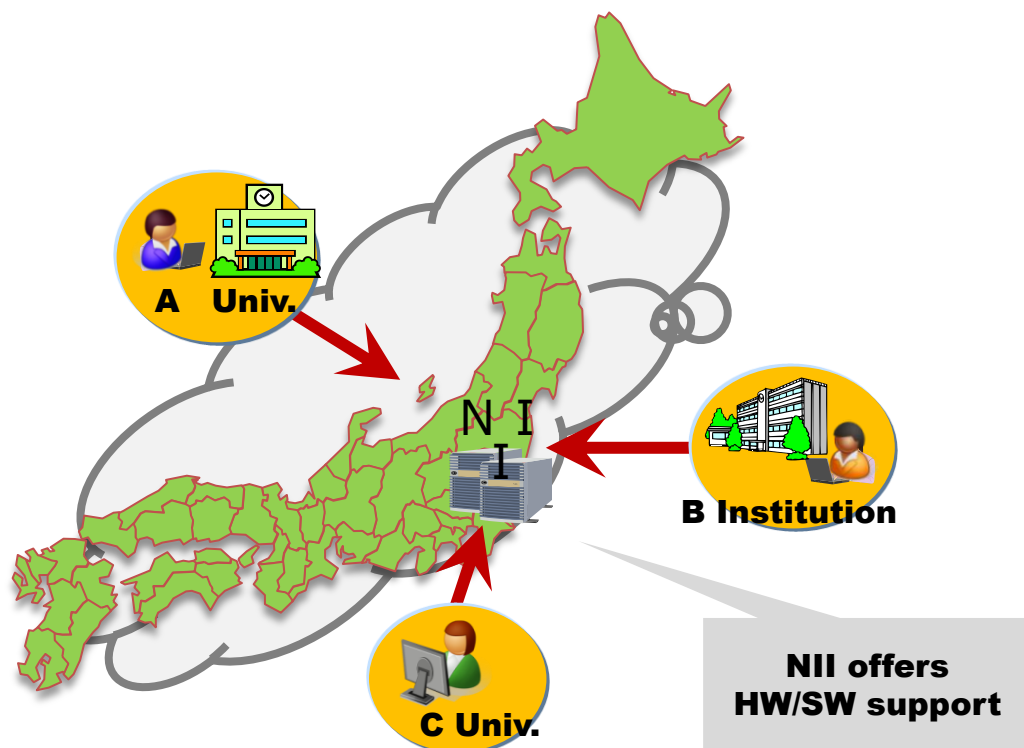


Network of Researchers

**Network of Systems**

Network of IR Managers

- **The National Institute of Informatics (NII) has launched JAIR Cloud service, from April 2012, to promote dissemination of research and educational outcomes and facilitate open access in Japanese universities and research institutions.**
- **JAIR Cloud provides a shared instance of institutional repository system to academic institutions. The system is implemented based on WEKO, a repository software developed by NII.**

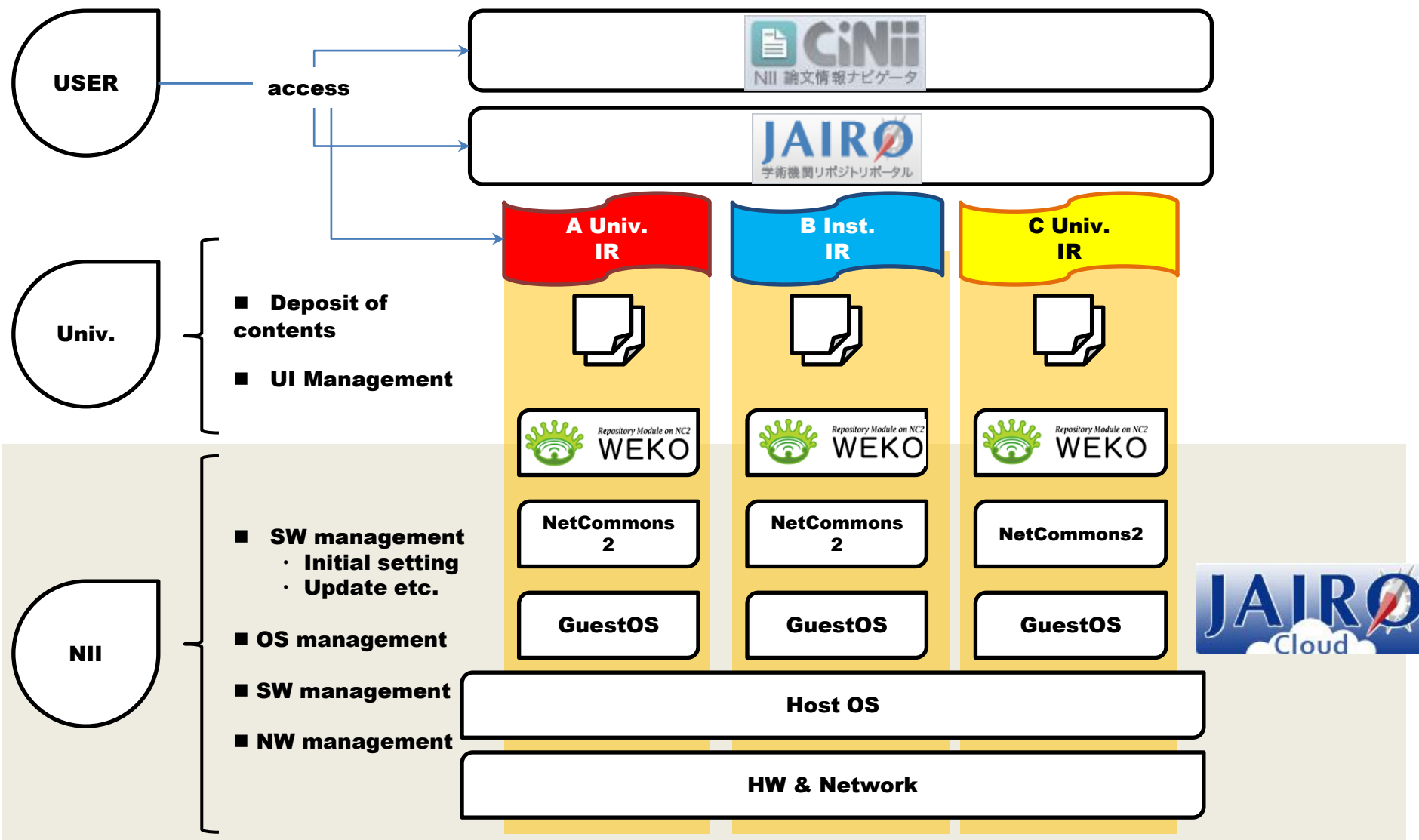


Number of institutions applied

**69**

(as of May 2012)

# Service Architecture



Check academic societies' copyright policies

● Search by society name

(You can search by entering part of the society's name. "and," or " searches are possible.) [Advanced search](#)


● Search by journal title

(You can search by entering part of the journal title. "and," or " searches are possible.) [Advanced search](#)


# NII Institutional Repositories Program

SCPJ

List of societies' copyright policies

- **Green**  
can archive  
pre-print and  
post-print
- **Blue**  
can archive  
post-print
- **Yellow**  
can archive  
pre-print
- ☐ **White**  
archiving not  
formally supported
- **Gray**  
Under review / Not  
published / No  
response / Other

SCPJ Statistics

No. of registered societies 2,542  
(Green139, Blue658)

SHERPA/RoMEO

English/Japanese

| TOP PAGE | About SCPJ | Article copyright |

Check academic societies' copyright policies

Statistics

A total of 2542 academic societies are registered as of now, 2012/05/15

Color	Policy	Society	Ratio
Green	can archive pre-print and post-print	139	5.4%
Blue	can archive post-print	658	25.8%
Yellow	can archive pre-print	11	0.4%
White	archiving not formally supported	223	8.7%
Gray	Under review / Not published / No response / Other	1511	59.4%

List of societies' copyright policies

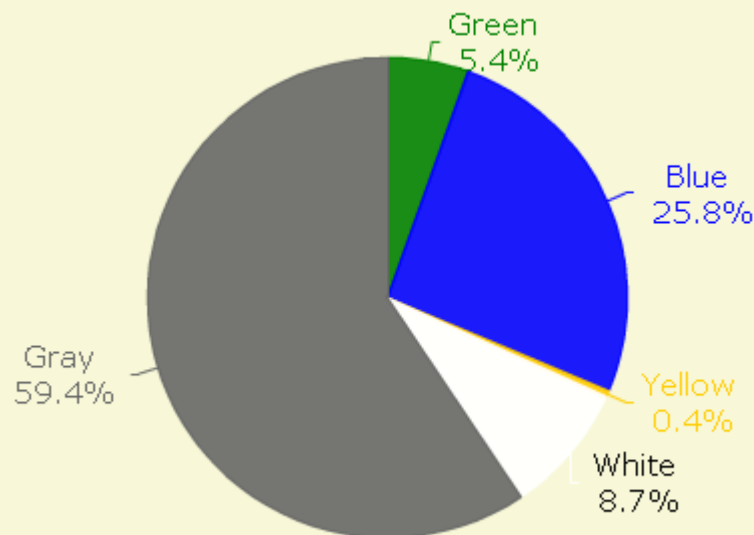
- **Green**  
can archive  
pre-print and  
post-print
- **Blue**  
can archive  
post-print
- **Yellow**  
can archive  
pre-print
- ☐ **White**  
archiving not  
formally supported
- **Gray**  
Under review / Not  
published / No  
response / Other

SCPJ Statistics

No. of registered societies 2,542  
(Green139, Blue658)

SHERPA/RoMEO

SCPJ Policy Colours



Digital Repository Federation

COAR General Assembly 2012 in Sweden





# SCPJ project

(Societies Copyright Policies in Japan)

- Outline
  - Investigate Japanese scholarly societies' open access policies and publicize this information through SCPJ (Societies Copyright Policies in Japan) database.
  - <http://scpj.tulips.tsukuba.ac.jp/>
- Two Features of SCPJ database
  - The only database that covers OA policies of almost all Japanese academic societies (about 1,800)
  - No policy is a policy: to regard responses of “under consideration” or “No response” as one of the policies

SAITO Mika, HIRATA Kan, MORI Ichiro, HOSOKAWA Maki, TSUKUI Yuko, NAKAYAMA Takahiro.  
["New SCPJ: Let's develop an open access policy database together!"](#) DRF International  
Conference 2009, Poster Session, 3-4 December, 2009, Tokyo Institute of Technology, Japan.



## SCPJ project

(Societies Copyright Policies in Japan)

- Color coding of OA policy in SCPJ database

Color	OA policy	Num
Green	Author can archive both Pre-prints & Post-prints	44
Blue	Author can archive only Post-prints	252
Yellow	Author can archive only Pre-prints	4
White	Author can not archive	157
Gray	Under consideration	1,379

学協会著作権ポリシーデータベース  
Society Copyright Policies in Japan

SCPJ

| TOP PAGE | About SCPJ

Check academic societies' copyright policies

● Search by society name  
(You can search by entering part of the society's name. "and," or " searches are possible.) [Advanced search](#)

Search

● Search by journal title  
(You can search by entering part of the journal title. "and," or " searches are possible.) [Advanced search](#)

Search

List of societies' copyright policies

■ Green  
can archive  
pre-print and  
post-print

■ Blue  
can archive  
post-print

■ Yellow  
can archive  
pre-print

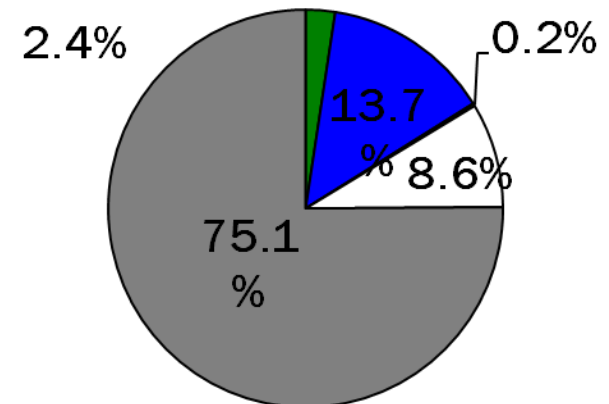
□ White  
archiving not  
formally supported

■ Gray  
Under review / Not  
published / No  
response / Other

SCPJ Statistics

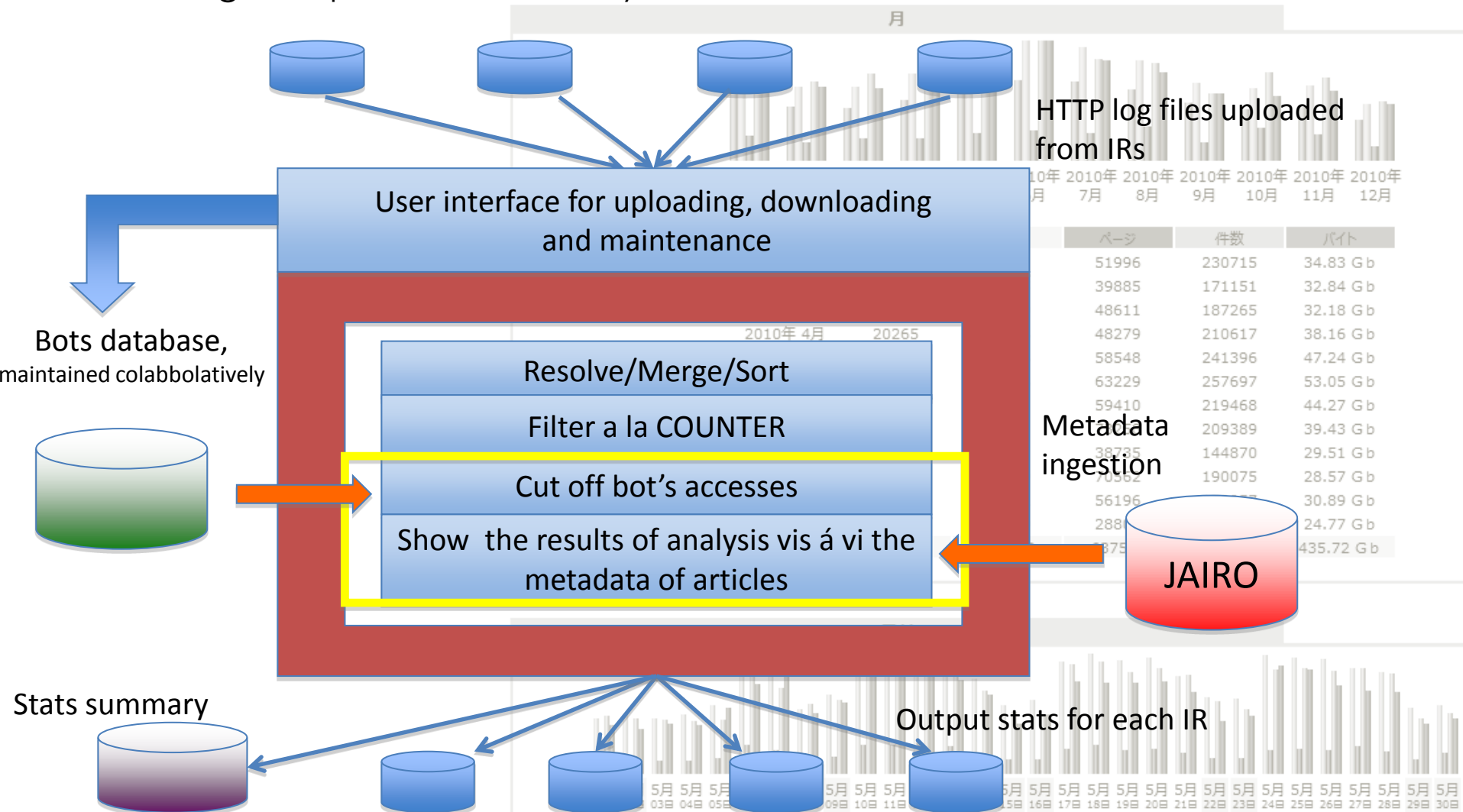
No. of registered societies 2,542  
(Green139, Blue658)

SHERPA/RoMEO



# ROAT : Repository Output Assessment Tool

- Shared online platform for assessing the impact(=downloads) of repositories
- Standardized counting through various repository softwares
- Metadata based integrated reporting
- Serving 30 repositories currently



# Repository Network What?

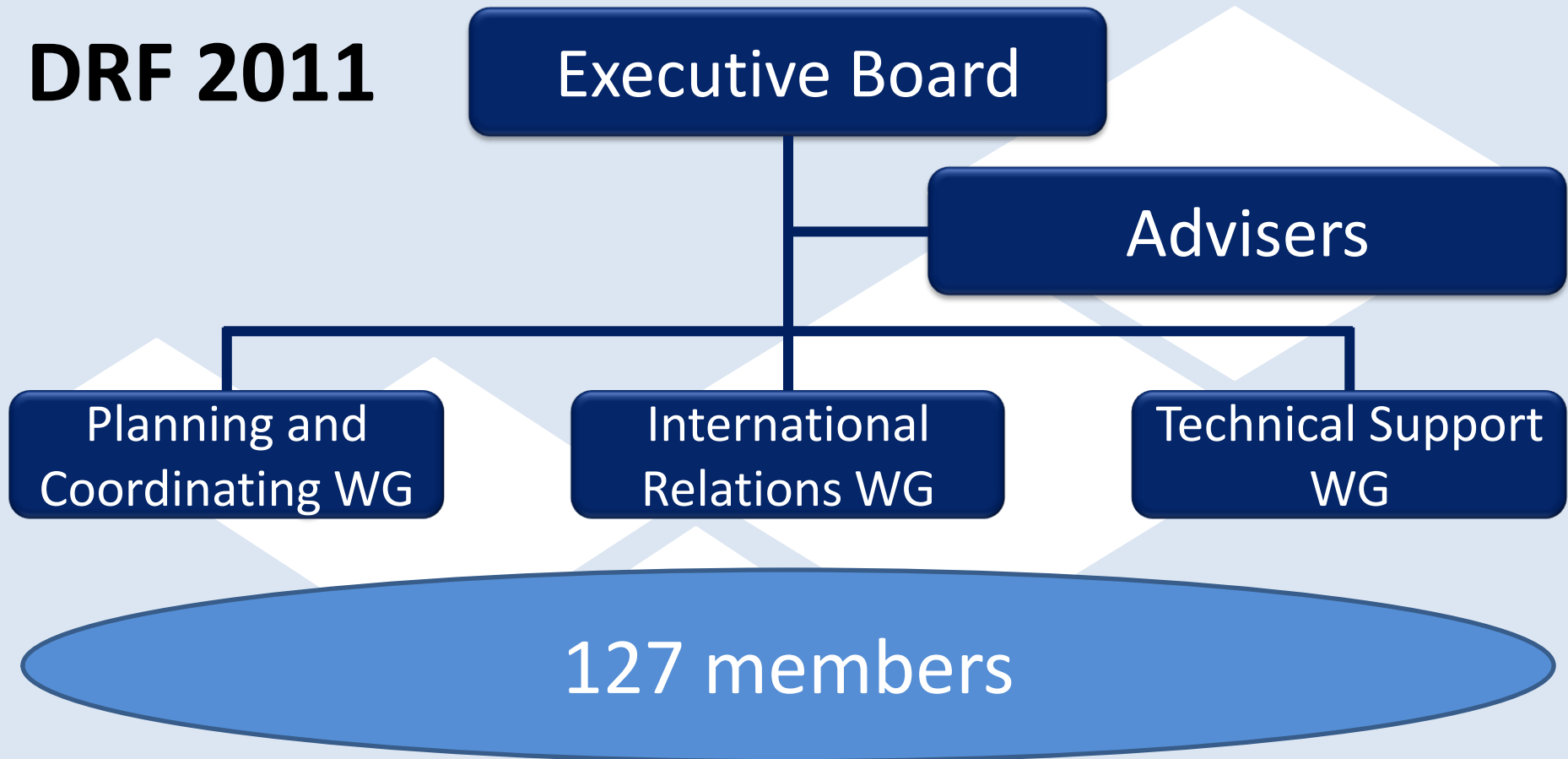


Network of Researchers

Network of Systems

Network of IR Managers

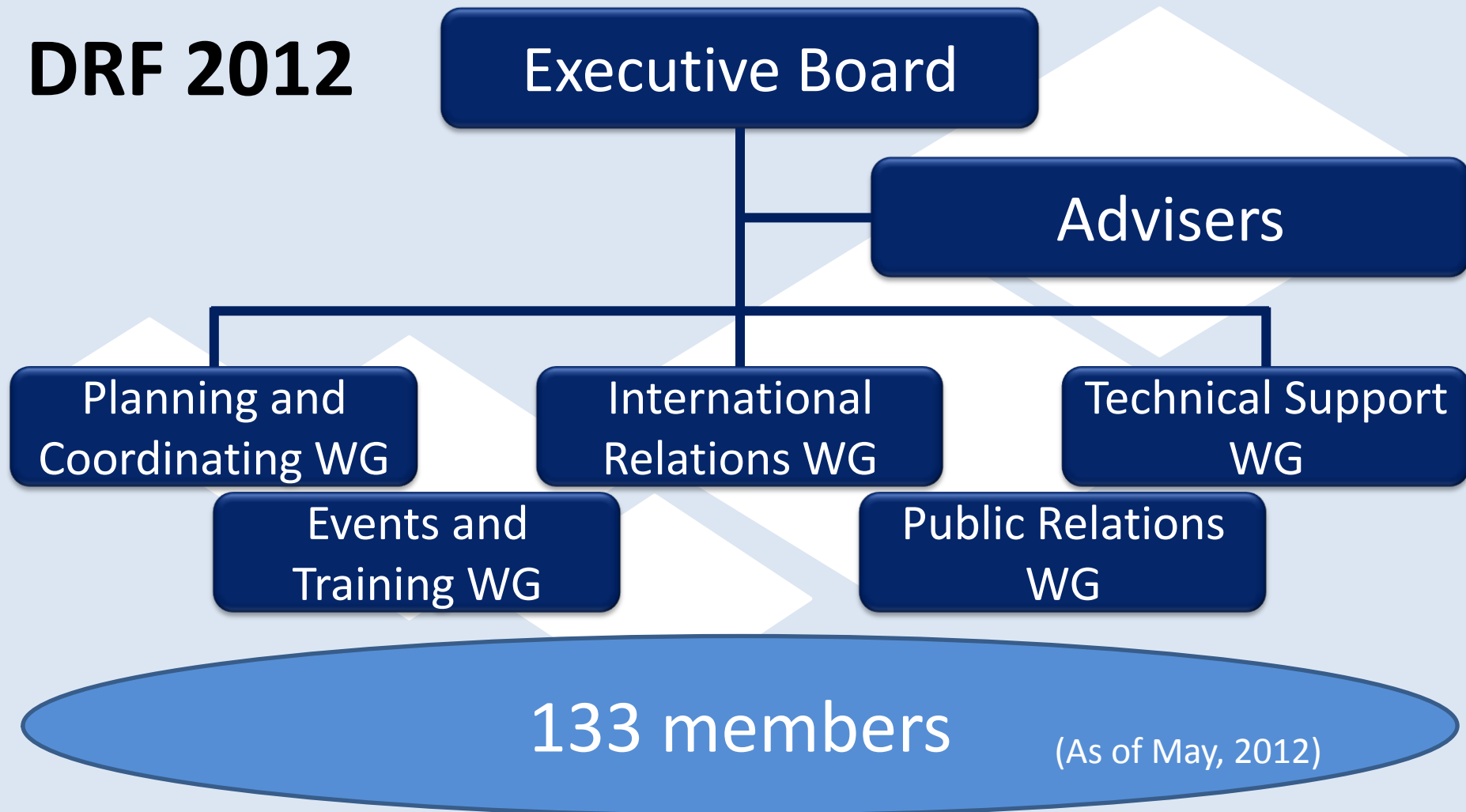
# DRF 2011



## Activities

- 3 Trainings for beginner
- 1 Training for senior
- 1 Workshop
- 1 International meeting
- Poster presentation at Berlin 9
- Dispatch of 11 instructors for 8 lecture meetings
- 1 Technical workshop
- MoU: DRF, RSP and UKCoRR

# DRF 2012



## DRF Activity Challenges: 2010 - 2012

1. Survey and Research to Enhance Content
2. Development of Institutional Repository Technical Infrastructure
3. Information Sharing, Staff training, Regional support
4. Promotion of International Cooperation

# Summary

- *The Network Effect* is working!
  - Focusing on national-wide network sharpens it
  - Variety of supports prompts newcomers to join
- Network of contents should be more functional
  - more collaboration in ID (e.g., ORCID)
  - Collaboration with other data
- More expectations on network of IR managers