NIMS eSciDoc, SAMURAI and Future Services

1. Timeline

- SAMURAI (batch upload of ResearcherID.COM/ReaD) (Advanced export and API functions)
- Library of Strategic Materials
- Materials Science Library
- IMEJI.org (prototype)
- Library portal (Cooperating NIMS eSciDoc) (Electronic resource management)
- Processing of NIMS researchers and their publications
  - Integrating internal DBs
  - Author identification, DOI matching with CrossRef
- NIMS eSciDoc
  - Japanese support of PubMan
  - MOJ with MPDL to develop eSciDoc
  - Japanese support of PubMan and Faces
- Investigation of next-generation library model
  - Virtual library
  - Federated search
  - Library operation costs
- Development of Next-L Enju
  - Integrated library system
  - Library catalogue search and library portal
- NIMS eSciDoc
  - “SAMURAI” – Researchers directory
  - ResearcherID, ReaD&Researchmap, KAKEN etc.

2. NIMS eSciDoc as research infrastructure

**Complement role:**
- Preservation and disseminating research publication
- “Self archiving” platform
  - To provide uncovered information within current journal ecosystem
- Special collections (e.g. library holdings)

**Cooperation with internal and external services**
- NIMS researchers directory “SAMURAI”
  - ResearcherID, ReaD&Researchmap, KAKEN etc.
- Library Search Portal (OPAC)
- Research Outcome Database
- Employees Core Database
Overview of NIMS eSciDoc

3. Concepts

Self archiving of research materials: Published articles, presentation slides, teaching materials, data files and so on.

Benefits:
- Long-term preservation and management
- Access control: Private, Within-institute sharing and Public visibility
- Usage statistics service

4. Basic services – NIMS eSciDoc
(ItemID – AuthorID – 参照URL)

1. One source, multiple outputs
2. Integration of several NIMS-office DBs, to provide always current and accurate information.
3. Should provide with more rich links to external DBs and E-Journals, as many as possible.
4. Usage statistics are monitored by the researcher-side.
5. Fulltext of all NIMS publications should be viewed (at least) within NIMS.
6. Introduce advanced features, such as “More like this” and “Co-citation graph” by using state-of-the-art information technologies.

5. SAMURAI

- Directory service for NIMS researchers
  - Making information available to potential collaborators and the general public.
  - (Policy) “SAMURAI aims at NIMS researchers and their outcomes to make more visible to the general public as a government funded research organization.”
- Launched in October 2010.
- NIMS researchers: about 500, as of October 2011.
  - Permanent researchers and engineers
  - Fixed-term researchers with position of Invited researchers, Special researchers, or Tenure-track researchers
  - Retired researchers, if desired.
- Available publications
  - NIMS publications for research evaluations
  - Self-archived research materials, incl. affiliated to other organizations.
  - Patents
5. How to make SAMURAI

- **Source of SAMURAI**
  - **Internal DBs:**
    - Personnel Office – Employee information including name, OrgUnit, position, and title.
    - Evaluation Office – Employee and the publication bibliography (title, authors and affiliations, journal title, volume, issue, pages, DOI and fulltext PDF)
  - **External DBs:**
    - CrossRef – References to English paper and its DOI
    - National Patent Office – References to patent bibliography and fulltext.
    - JST ReaD – Researcher’s keywords in Japanese and English

- **Integration of SAMURAI source data for SAMURAI**
  - Integration DB (Profile, Publication list)
  - Name mapping, in case of difference scripts and penname
  - Co-author DB
  - Linking to NIMS eSciDoc
  - Export function for internal and external use (API)
More and more visibility

Rich snippets showing the researcher's affiliation and position in Google results.

Access usage on SAMURAI

As of October 2010, Total number of page views are 454,843.

6. Linking to external researchers databases
(ResearchID.com, ReaD&Researchmap, KAKEN)

- Batch uploading service via XML profile and publications data
- Organization administrator can upload whole researchers
- Researchers are identified with their e-mail address
  - In case of already registered to ResearcherID.com: Just mapping their employee information.
  - In case of new to ResearcherID.com: Registered with E-mail address.
- At NIMS:
  - Mapping XML schema and SAMURAI's data
  - Developed a program to batch uploading
  - (will be uploaded in 2011)
Current and comprehensive information on research staffs (updated by administrative staffs)

- Employee Core DB
- Research Evaluation DB
- Current and comprehensive information on publications (updated by researchers themselves)

Sync with internal DBs daily basis

SAMURAI

Entrance to the society

NIMS eSciDoc

Researchmap

JST ReaD

Another portal service with “WordPress plugin for PubMan” (Collection)

Profile pages are automatically generated in NIMS eSciDoc

Automatically managing and extracting author-id (Cone)

Web site for Research unit/project, built on top of WordPress (Comments and CMS capabilities)

Additional service

Niho University

"Materials Science Library" collection

Nihon University

ResearcherID

Web of Science

Research Evaluation DB

Current and comprehensive information on research staffs (updated by administrative staffs)

National Institute for Materials Science
“IMEJI” – Research data becomes citable data; photos and pictures

More and more linking of related researchers and papers (More like you?)

- Keyword search are utilized for more advanced features:
  - Text mining of "related researchers".

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10. Planned features of SAMURAI: Export and API functions

- Useful interface for the researchers
- Making full use of NIMS internal information provide more free hand to the researchers to avoid “copy&paste” for their daily works.
- Useful for outreach activities and grant applications
- Possibility of information infrastructure

Summary

- NIMS eSciDoc as research information infrastructure
  - Self-archiving platform
- SAMURAI
  - Researchers directory service for outreach activities
- Interoperabilities with internal and external services
  - ResearcherID, Read&Researchmap, KAKEN etc.
  - CV export and embed service (API)
  - Library catalog search portal