Slide 1

NIMS Digital Library
eSciDoc

NIMS eSciDoc, SAMURAI and Future Services

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October 13th, 2011
The 2nd eSciDoc.JP Workshop@NIMS

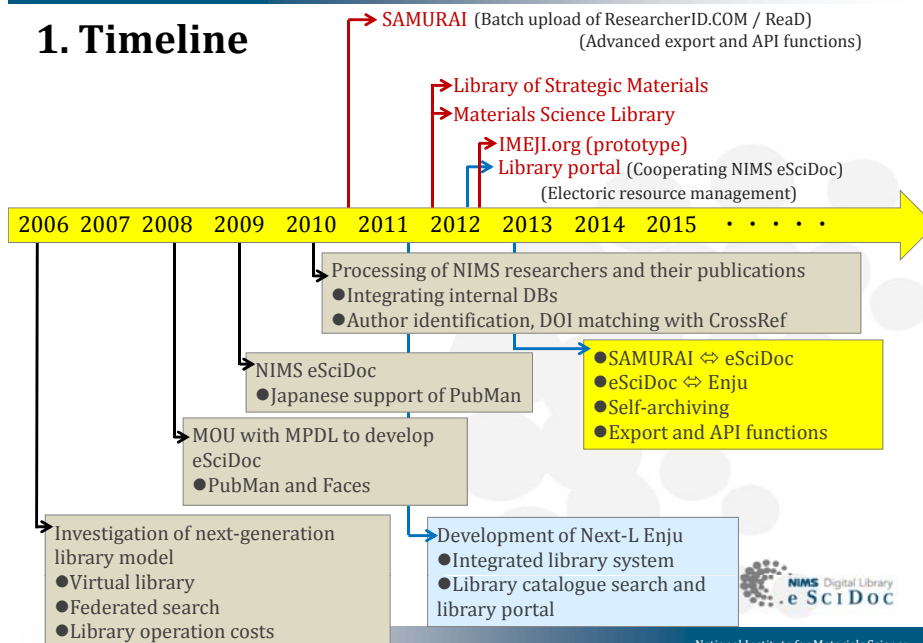National Institute for Materials Science

Slide 2

Outline

1. Timeline
2. NIMS eSciDoc as research infrastructure
3. Concept
4. "NIMS eSciDoc" and "SAMURAI"
5. Further services
   1. More visibility for researchers
   2. Linking to external researchers databases
   3. Another portal service with "WordPress plugin for PubMan"
   4. "IMEJI" – Research data becomes citable data; photos and pictures
   5. More and more linking of related researchers and papers
6. Future and discussions

Slide 3

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)
(Electoric resource management)

2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 · · · · ·

Processing of NIMS researchers and their publications
● Integrating internal DBs
● Author identification, DOI matching with CrossRef

NIMS eSciDoc
● Japanese support of PubMan

● SAMURAI ⇔ eSciDoc
● eSciDoc ⇔ Enju
● Self-archiving
● Export and API functions

MOU with MPDL to develop eSciDoc
● 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
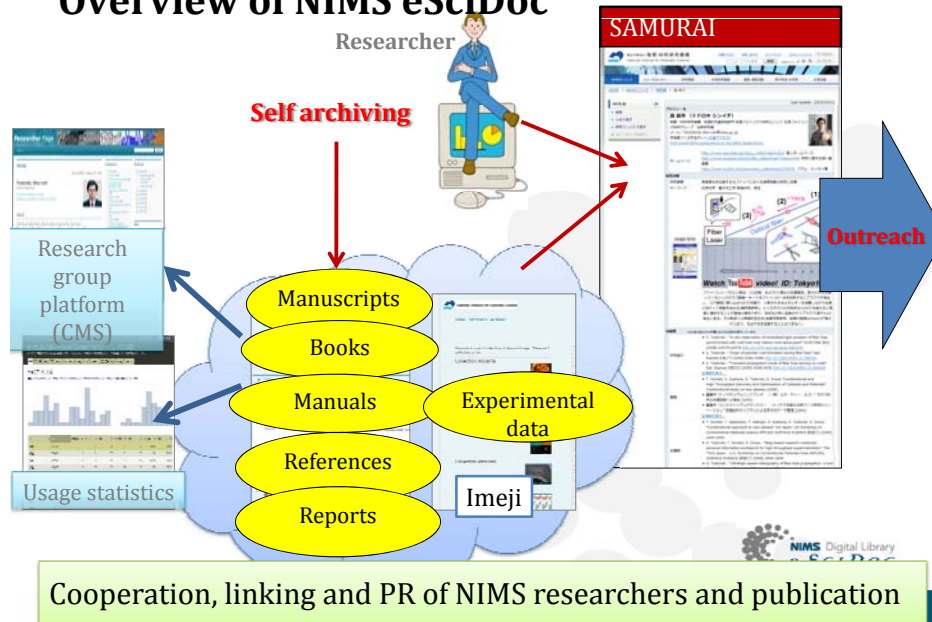
Slide 4

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)
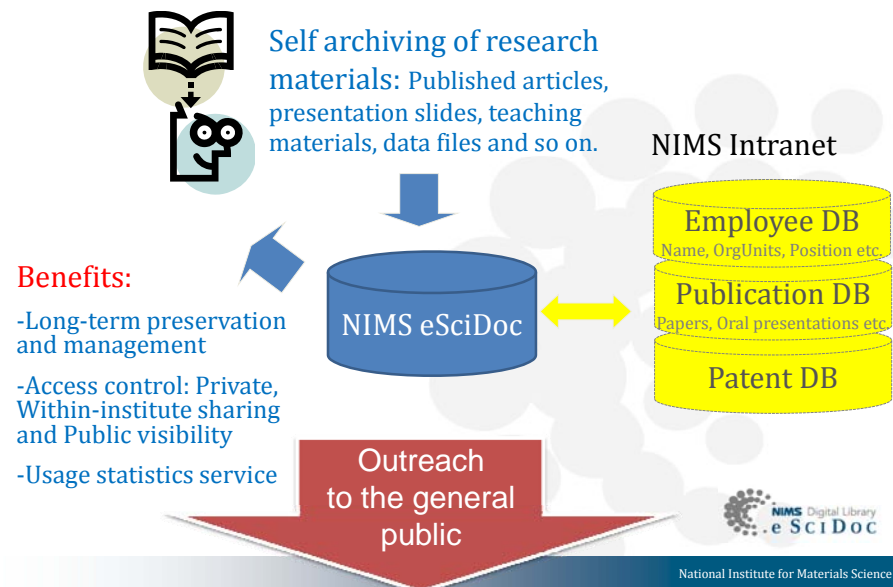 ■ Research Outcome Database
  ■ Employees Core Database

Overview of NIMS eSciDoc

Researcher

Self archiving

SAMURAI

Outreach

Research group platform (CMS)

Usage statistics

Manuscripts
Books
Manuals
References
Reports
Experimental data

Imeji

Cooperation, linking and PR of NIMS researchers and publication

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3. Concepts

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

NIMS Intranet

Benefits:

-Long-term preservation and management

-Access control: Private, Within-institute sharing and Public visibility

-Usage statistics service

NIMS eSciDoc

Employee DB
Name, OrgUnits, Position etc.

Publication DB
Papers, Oral presentations etc.

Patent DB

Outreach to the general public

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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.

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5. SAMURAI

NIMS Researchers Database
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

Individual researcher page
Name, OrgUnit, Position, Contact info. (E-mail, Phone, URL etc.), Photos, Description and keywords of his/her research, and the publications

List of researchers
Alphabetical lists and lists of Affiliated to each OrgUnit.

Keyword search for researchers
Search targets are researcher's name, keywords, descriptions etc.
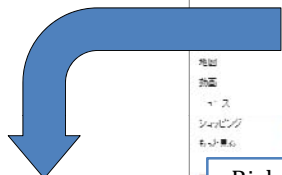
5. How to make SAMURAI

- 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 collaboration division – fulltext of NIMS researchers outline
  - 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 Engliush
- 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

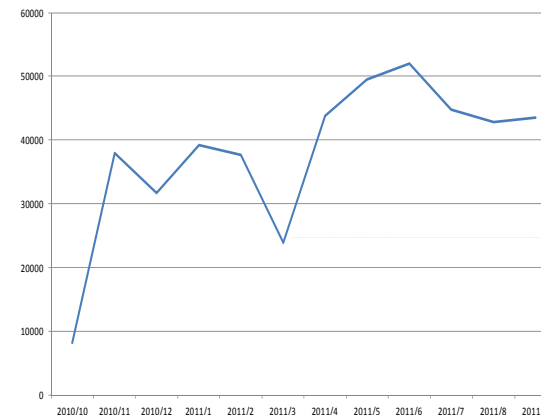Rich snippets showing the researcher's affiliation and position in Google results.

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)

Researcher portofolio in PubMan
JST ReaD
KAKEN / NII Reseacher Resolver
Researcher ID
Google Scholar

Batch uploding to ResearcherID.com

- Batch uploding 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
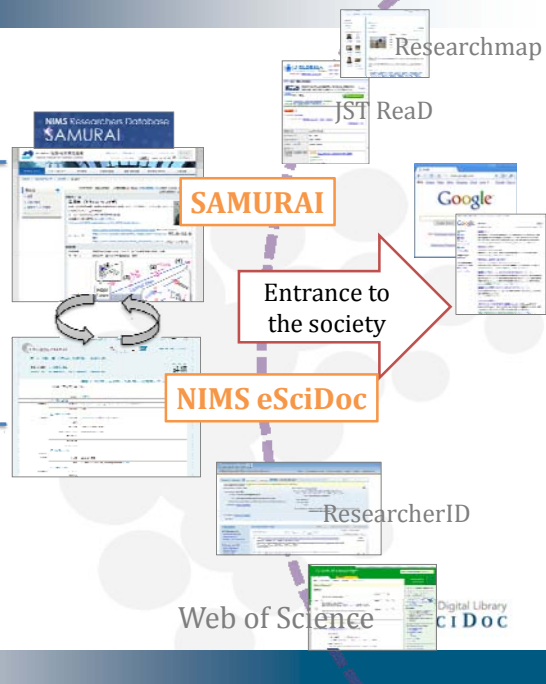 - (will be uploaded in 2011)

Slide 1 (top-left)

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

Employee Core DB

Sync with internal DBs daily basis

Research Evaluation DB

Current and comprehensive information on publications (updated by researchers themselves)

SAMURAI

NIMS eSciDoc

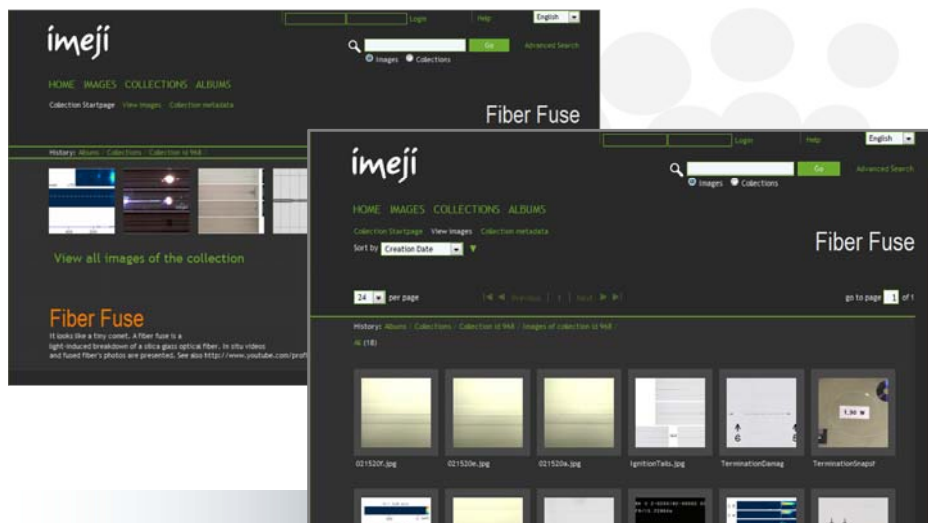Entrance to the society

Researchmap

JST ReaD

Google

ResearcherID

Web of Science

Digital Library eSciDoc

Slide 2 (top-right)

Another portal service with "WordPress plugin for PubMan"
(Collection)

NIMS Digital Library eSciDoc

Profile pages are automatically generated in NIMS eSciDoc.

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

Automatically managing and extracting author-id (Cone)

Researcher Portfolio

Researcher Page

Additional service

Slide 3 (bottom-left)

元素戦略ライブラリー

Digital Library eSciDoc

Slide 4 (bottom-right)

材料科学専門図書館 - Microsoft Internet Explorer

ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

アドレス(D) http://kagaku.nims.go.jp/library/materials/

NIMS Digital Library
Library of Materials Science
材料科学専門図書館

JAPANESE | ENGLISH

TOP | NEWS | 最近登録されたドキュメント

Search The Library

検索

物質科学ライブラリのドキュメントの検索ができます。
何も入力せず検索を行うと、全てのドキュメントが新着登録順に表示されます。

このデジタルライブラリーは材料科学分野における多様な形の研究成果を、研究者自身によってセルフアーカイブ（保存）することを可能とし、同時に社会へ広く還元を図ることを目的とした情報流通基盤です。ここに保存された情報は、研究者の個別成果として研究者総覧SAMURAIサービスでも閲覧することができます。

RESEARCH TOPICS

2011.03.14 《告知》
2011.03.04 CaF₂結晶層の形成によるInGaN系紫外線センサの感度向上
2011.03.03 縦型全自動シリアルセクショニング3D顕微鏡"Genus 3D"の開発
2011.03.01 宝野 和博 磁性材料センター長がTMSフェローに推薦
2011.02.28 ナノ材料科学環境拠点シンポジウムの開催について
2011.02.24 クリープ試験データの世界最長記録を更新!
2011.02.18 つくばイノベーションアリーナ ナノテクノロジー拠点(TIA-nano)第1期中期計画（2010年度〜2014年度）の策定について
2011.02.16 天然ガスを含む新鉱物千葉石』
2011.02.08 汎用性の高い超高感度センサーの開発に成功
2011.02.04 1/80000 mmの直径のシリコンナノワイヤで中で不純物の挙動を捉えることに成功

» 過去分はこちら

CATEGORIES
clean energy
NIMS Open Seminar
Writing Scientific Papers
未分類

PUBLICATION YEAR
Open All | Close All
2010
2009
2008
2007
2006
2005
2004
2003
2002
2001
2000
1999
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1992
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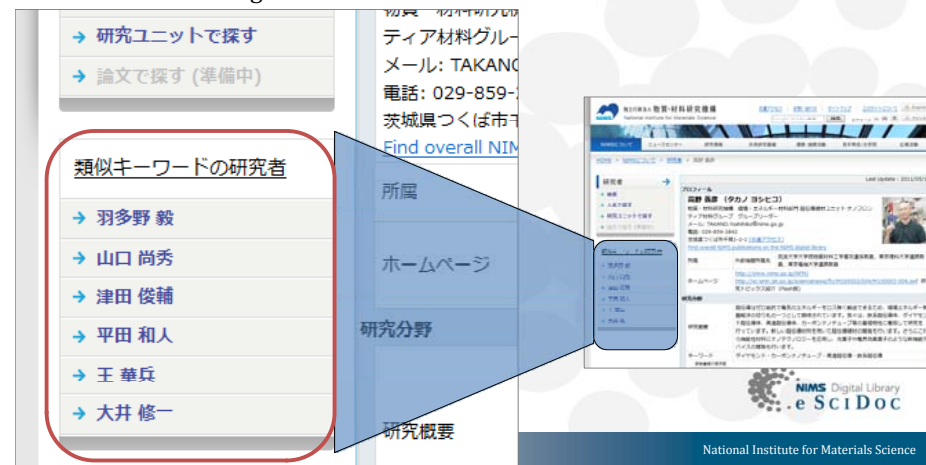1988
1987
1986

NIMS Digital Library eSciDoc

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".

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" ffor 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