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<td>Author(s)</td>
<td>INOUE, Sozo (Kyushu University, Japan); IKEDA, Daisuke (Kyushu University, Japan)</td>
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<tr>
<td>Citation</td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>2008-01-31</td>
</tr>
<tr>
<td>Text Version</td>
<td></td>
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<tr>
<td>URL</td>
<td><a href="http://hdl.handle.net/11094/14169">http://hdl.handle.net/11094/14169</a></td>
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<td>DOI</td>
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A NEW, SUSTAINABLE MODEL FOR THE INSTITUTIONAL REPOSITORY:
A CSI Project "INTEGRATION AND PRESENTATION OF DIVERSE INFORMATION RESOURCES"

DAISUKE IKEDA          *SOZO INOUE
DEPARTMENT OF INFORMATICS
KYUSHU UNIVERSITY
R&D DIVISION, LIBRARY,
KYUSHU UNIVERSITY

2008/1/31 DRFIC@OSAKA UNIV

A HIDDEN PROJECT IN CSI...
"INTEGRATION AND PRESENTATION OF DIVERSE INFORMATION RESOURCES"

2008/1/31 DRFIC@OSAKA UNIV
**MISSION:**

**SUSTAINABILITY**
of Institutional Repository (IR)
- Can we keep the epoch?
- What is the bottleneck?
- How to go well with the bottleneck?
- What to do next?

(Funded) Sub-projects

- Topic Map of IR Contents
- Invoking Co-evolutional Academic Research and Education
- Plugin-based Data Conversioning Framework
- Integrated Search For Education and Research
- Integrated Search in Institutions
Observation (1)

- Searches and Visualization are done in various ways
  - RI and IR (Poster No. 4)
  - Tag Cloud
  - Social Tagging and Linking

IR and RI

(1) Direct Search / (2) Referring to the intermediate DB

User

Click

Search results in QIR
TAG CLOUD

Social Tag and Link

Social Tag: Keyword input by users

Social Link: Link input by users
Observation (1)

- Searches and Visualization are done in various ways
  - RI and IR (Poster No.4)
  - Tag Cloud
  - Social Tagging and Linking
  
  → Not just a keyword search by a user!
  - A set of searches in a sense
  - System2system searches

Observation (2)

- There are various IRs in the institution already.
  - Repositories in labs, departments,...
  - In individual PCs,
  - E-journals, Paper review system in publishers,...
  
  Only conceptually, but same as ASP
  (Application Service Provider)
**Integrated Search**

- Osaka University
- Modular commands for data conversion
- Plugin Library

**Modular Commands for Data Conversion**

- Nagoya University
- Plugin Library
Observation (2)

- There are various IRs in the institution already.
  - Repositories in labs, departments, ...
  - In individual PCs,
  - E-journals, Paper review system in publishers, ...
    Only conceptually, but same as ASP (Application Service Provider)

→ Integrated search will work well.
→ Modular tools will speed up integration.

That’s it?

So, can we say it’s **sustainable**?

Nobody in the project said ‘Yes.’.
**Analogy with Ecology**

**Ecological sustainability:**
- People **want** to use energy
- But it **harms** the environment

**IR-ological(!?) Sustainability:**
- People **want** to use IR,...Really?
- And **harms** what?

**Things to Conquer:**
- Maximize the people’s ‘**want**’ to use
- Minimize the **harm** with it.

**Approach:**
“**Re-search is not a search**”

Researchers **must**
**create papers** as good/many as possible!

→ **Let the IR support total activity of paper creation.**
**Introducing ‘Activity-support Layer’**

- Community support
- Authentication/Authorization for subsystems
- Access control to resources
- Integrated search interface to subsystems
- Harvesting from subsystems to store to IR

**Minimize the Harm**

With highly autonomous mechanism of SNS (Social Networking Service)

- Administrator of SNS has almost nothing to do for maintenance!

→ Less cost
**Use Case: User Generated Metadata**

- **Current IR**
  - Only fixed metadata is used, such as title, author, abstract, etc.

- **In our model**
  - Comments, notes, and discussion about resources also can be metadata

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**Use Case: Resource Hopping**
Summary

- A Hidden Project in CSI
- Some technological advance
- Not yet for sustainability
- Users’ ‘want’ to use
- Activity-support layer for paper creation
- Minimize the cost with Autonomous SNS