<table>
<thead>
<tr>
<th>Title</th>
<th>A New, Sustainable Model for the Institutional Repository: A CSI Project Integration and Presentation of Diverse Information Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author(s)</td>
<td>INOUE, Sozo (Kyushu University, Japan); IKEDA, Daisuke (Kyushu University, Japan)</td>
</tr>
<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>
</tr>
<tr>
<td>URL</td>
<td><a href="http://hdl.handle.net/11094/14169">http://hdl.handle.net/11094/14169</a></td>
</tr>
<tr>
<td>DOI</td>
<td></td>
</tr>
<tr>
<td>rights</td>
<td></td>
</tr>
</tbody>
</table>
A NEW, SUSTAINABLE MODEL FOR THE INSTITUTIONAL REPOSITORY:
A CSI PROJECT "INTEGRATION AND PRESENTATION OF DIVERSE INFORMATION RESOURCES"

Daisuke Ikeda
Department of Informatics
Kyushu University

*Sozo Inoue
R&D Division, Library,
Kyushu University

2008/1/31

A Hidden Project in CSI...

"INTEGRATION AND PRESENTATION OF DIVERSE INFORMATION RESOURCES"

2008/1/31
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

2008/1/31

DRFIC@Osaka Univ
Observation (1)

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

Social Tag and Link
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

Modular commands for data conversion

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 *harm* the environment

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

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

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

- **IN OUR MODEL**
  - Comments, notes, and discussion about resources also can be metadata

**Use Case: Resource Hopping**

- Versioning System
- OCW
- IR

Preparation Fresh Materials Preserve Forever

2008/1/31 DRFIC@Osaka Univ
Use Case: Authorized Search

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