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<th>A New, Sustainable Model for the Institutional Repository: A CSI Project Integration and Presentation of Diverse Information Resources</th>
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*Osaka University Knowledge Archive: OUKA*

https://ir.library.osaka-u.ac.jp/repo/ouka/all/

Osaka University
A NEW, SUSTAINABLE MODEL FOR THE INSTITUTIONAL REPOSITORY:
A CSI PROJECT “INTEGRATION AND PRESENTATION OF DIVERSE INFORMATION RESOURCES”

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2008/1/31

A HIDDEN PROJECT IN CSI...

"INTEGRATION AND PRESENTATION OF DIVERSE INFORMATION RESOURCES"

KYUSHU UNIVERSITY

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

IR and RI

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

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.
  - Repository 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**
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, ...

- **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
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