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Osaka University

A New, Sustainable Model for the Institutional Repository:

A CSI Project "Integration and Presentation of Diverse Information Resources"

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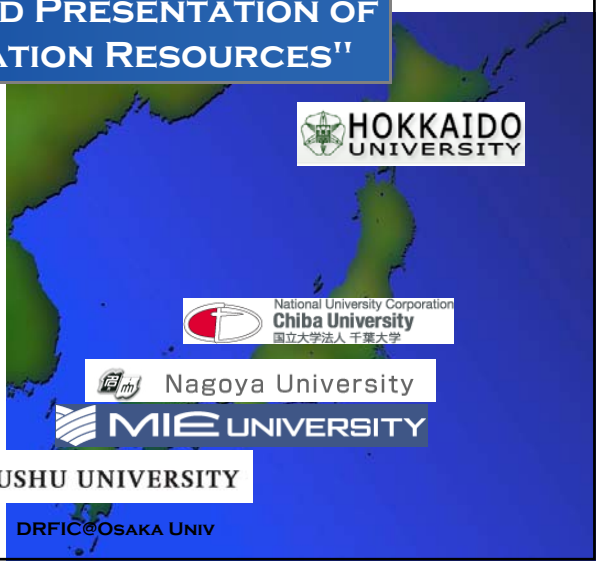
A Hidden Project in CSI...

"Integration and Presentation of Diverse Information Resources"



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

HOKKAIDO UNIVERSITY

National University Corporation Chiba University 国立大学法人 千葉大学

Nagoya University

MIE UNIVERSITY

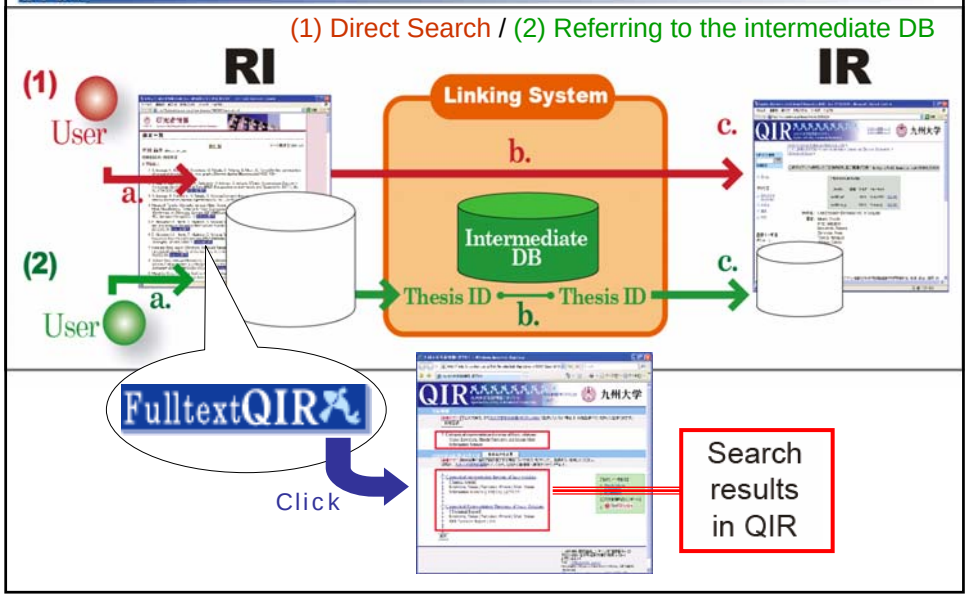
KYUSHU UNIVERSITY

- Topic Map of IR Contents
- Invoking Co-evolutional Academic Research and Educatoin
- 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



Tag Cloud

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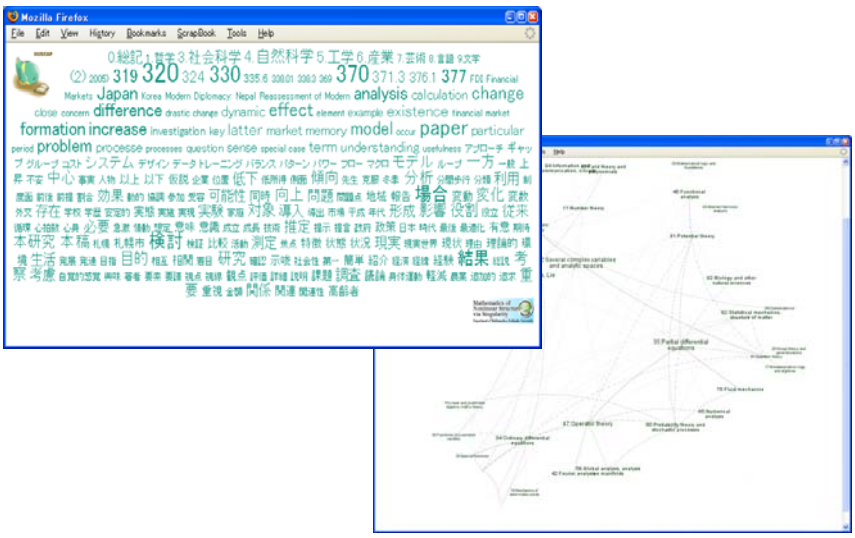

Social Tag and Link

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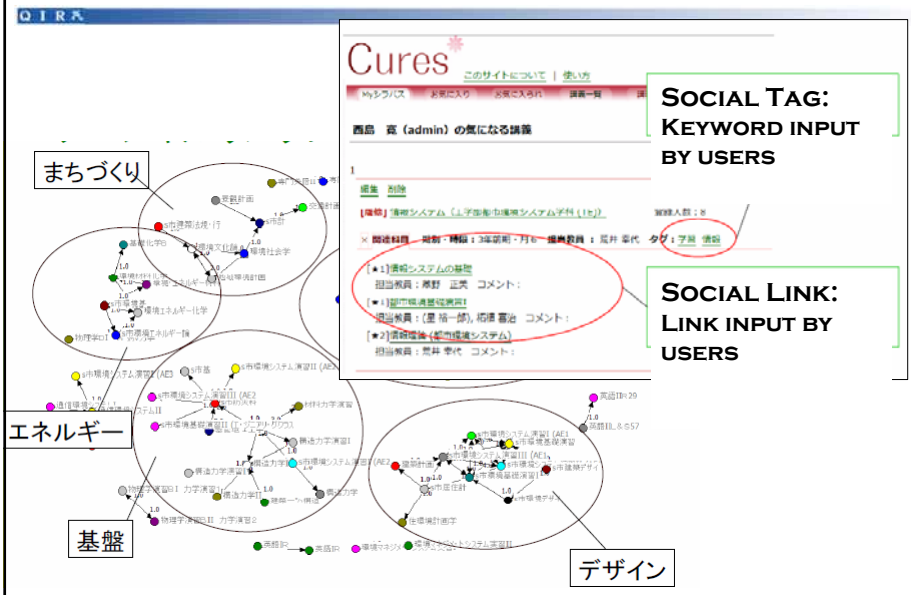

Social Tag:
Keyword input by users

Social Link:
Link input by users

Observation (1)

- Searches and Visualization are done in various ways
  - RI and IR (Poster No.4)
  - Tag Cloud
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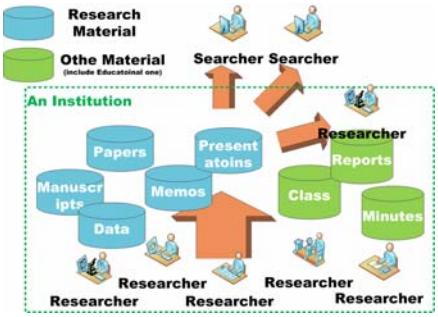
→Not just a keyword search by a user!

- A set of searches in a sense
- System2system searches

Observation (2)

- There are various IRs in the institution already.
  - Repositorys in labs, departments,…
  - In individual PCs,
  - E-journals, Paper review system in publishers,…

Only conceptually, but same as ASP (Application Service Provider)



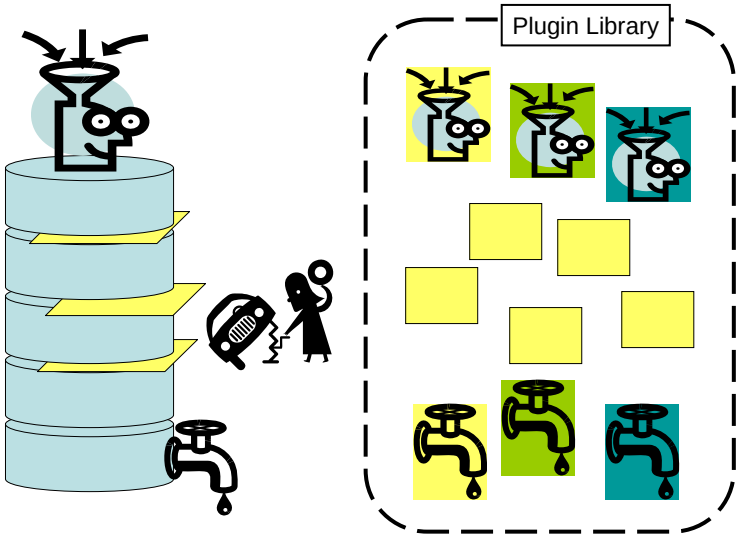
Integrated Search

MIE UNIVERSITY

2008/1/31

Modular commands for data conversion

Nagoya University



Observation (2)

- There are various IRs in the institution already.
  - Repositorys in labs, departments,...
  - In individual PCs,
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    - Only conceptually, but same as ASP (Application Service Provider)

→Integrated search will work well.

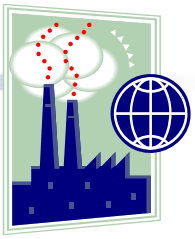
→Modular tools will speed up integration.

That's it?

So, can we say it's <u>sustainable</u>?

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?

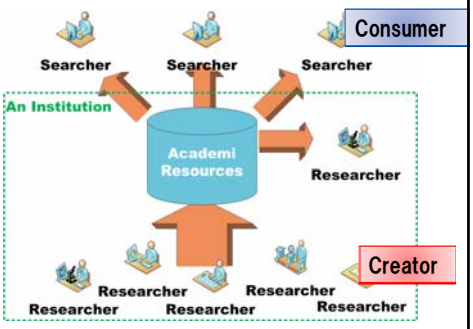
Things to Conquer:

- Maximize the people's '**want**' to use
- Minimize the **harm** with it.

Approach: "Re-search is not a search"

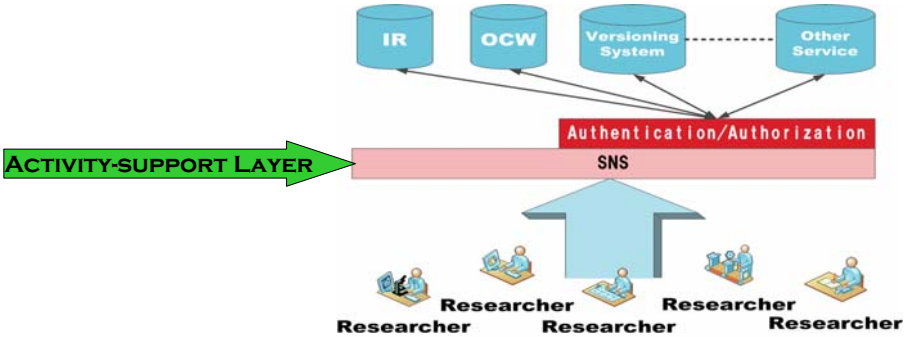
Researchers **must create** papers as good/many as possible!

→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

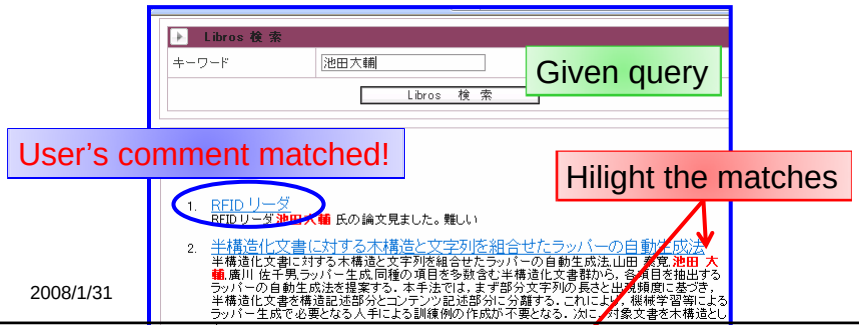
With highly autonomous mechanism of SNS (Social Networking Service)

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

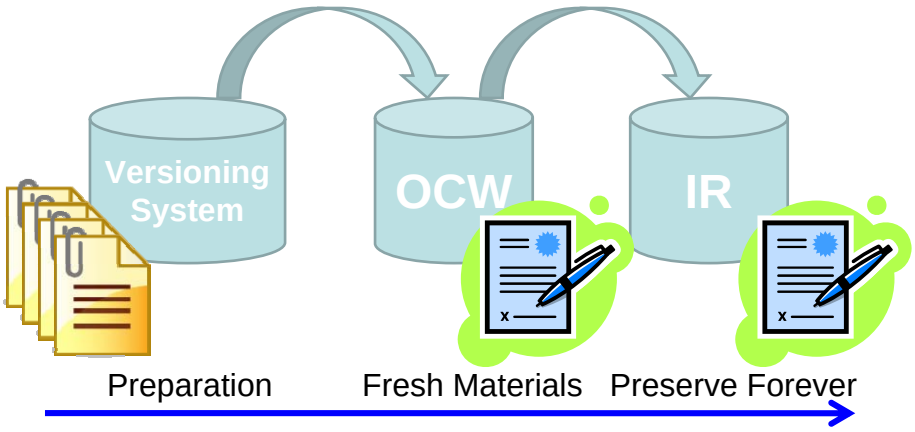
→Less cost

Use Case: User Generated Metadata

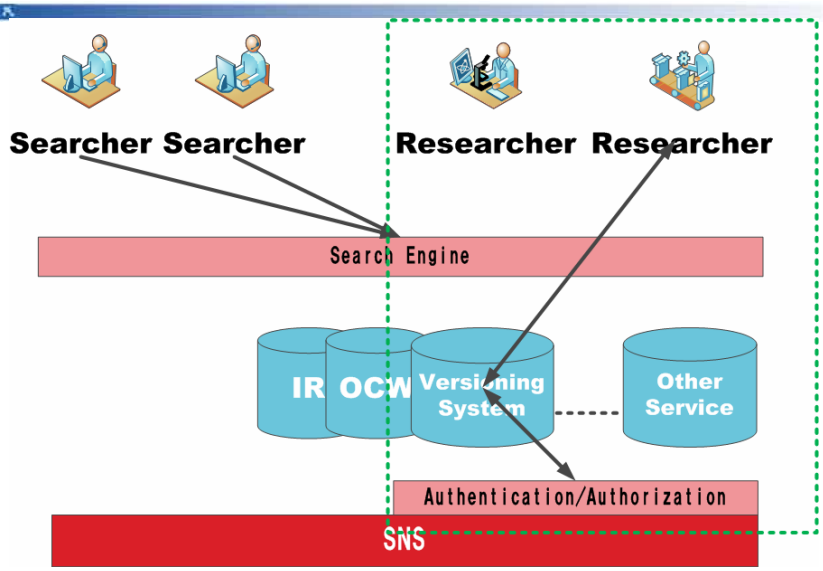
- Current IR
  - Only fixed metadata is used, such as title, author, abstract, ･･･
- In our model
  - Commets, notes, and discussion about resources also can be metadata



Use Case: Resource Hopping



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