Title	A New, Sustainable Model for the Institutional Repository : A CSI Project Integration and Presentation of Diverse Information Resources
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A New, Sustainable Model for the Institutional Repository:
A CSI Project "Integration and Presentation of Diverse Information Resources"

Daisuke Ikeda

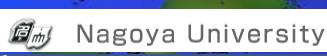Department of Informatics
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A Hidden Project in CSI...

"Integration and Presentation of Diverse Information Resources"

HOKKAIDO UNIVERSITY

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

Nagoya University

MIE UNIVERSITY

KYUSHU UNIVERSITY

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MISSION:

SUSTAINABILITY

OF INSTITUTIONAL REPOSITORY (IR)

- CAN WE KEEP THE EPOCH?
- WHAT IS THE BOTTLENECK?
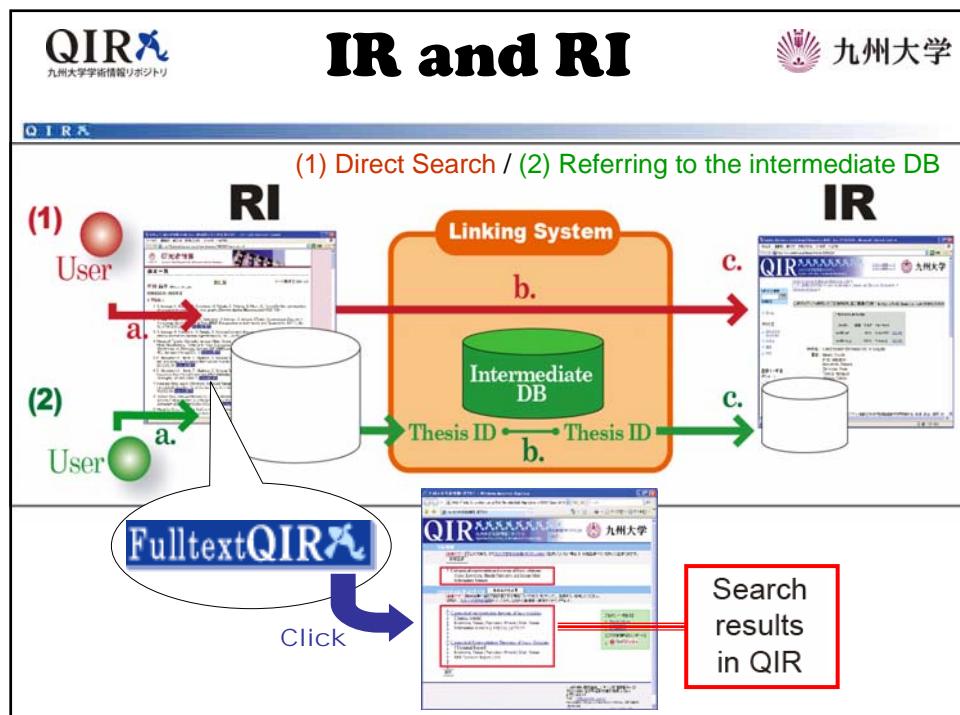- HOW TO GO WELL WITH THE BOTTLENECK?
- WHAT TO DO NEXT?

(FUNDED) SUB-PROJECTS

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- TOPIC MAP OF IR CONTENTS
- INVOKING CO-EVOLUTIONAL ACADEMIC RESEARCH AND EDUCATOIN
- PLUGIN-BASED DATA CONVERSIONING FRAMEWORK
- INTEGRATED SEARCH FOR EDUCATION AND RESEARCH
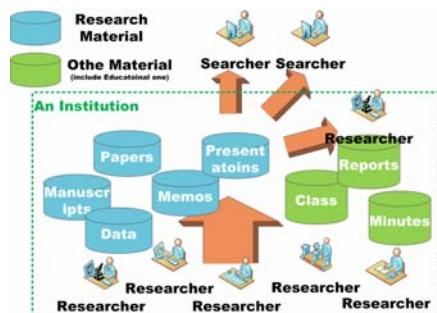- INTEGRATED SEARCH IN INSTITUTIONS

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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

九州大学

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

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.
    - 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

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MODULAR COMMANDS FOR DATA CONVERSION
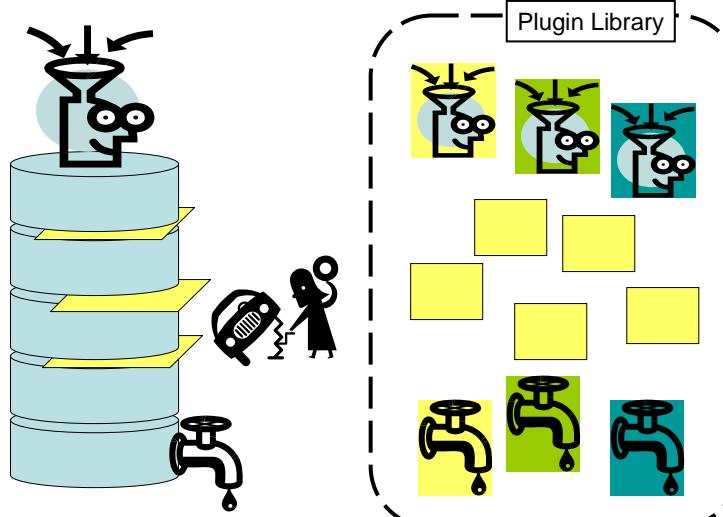
Nagoya University

Plugin Library

6

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 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?
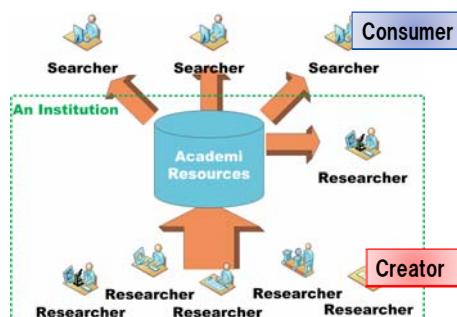- AND **HARMS** WHAT?

THINGS TO CONQUER:
- MAXIMIZE THE PEOPLE'S '**WANT**' TO USE
- MINIMIZE THE **HARM** WITH IT.

APPROACH:
"RE-SEARCH IS NOT A SEARCH"
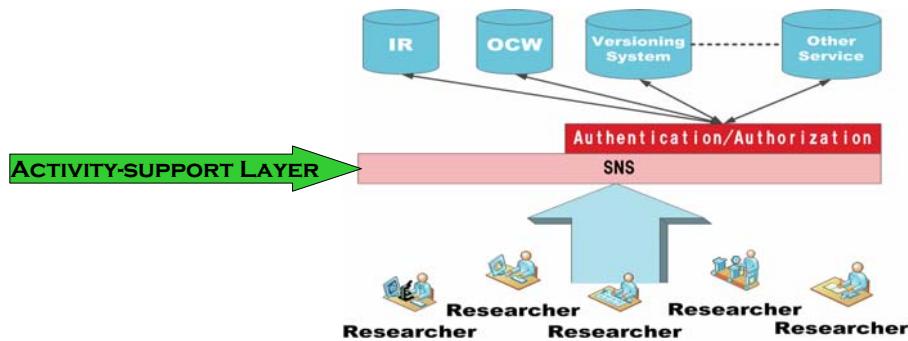
RESEARCHERS **MUST CREATE** PAPERS AS GOOD/MANY AS POSSIBLE!

→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 MAINTAINANCE!

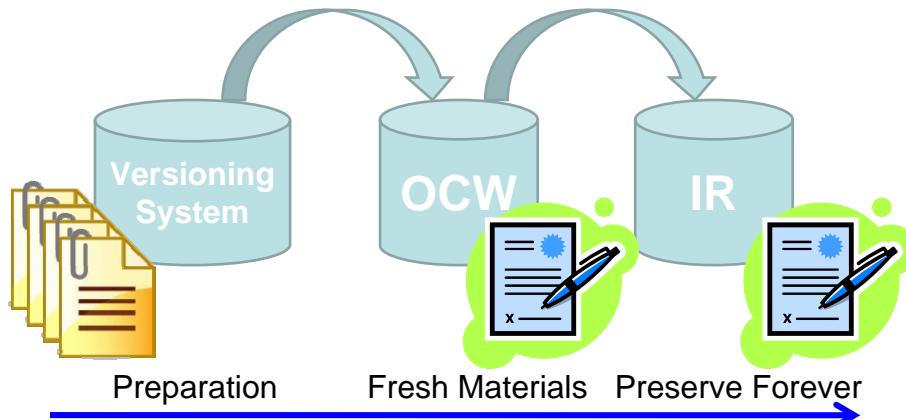→LESS COST

Use Case: User Generated Metadata

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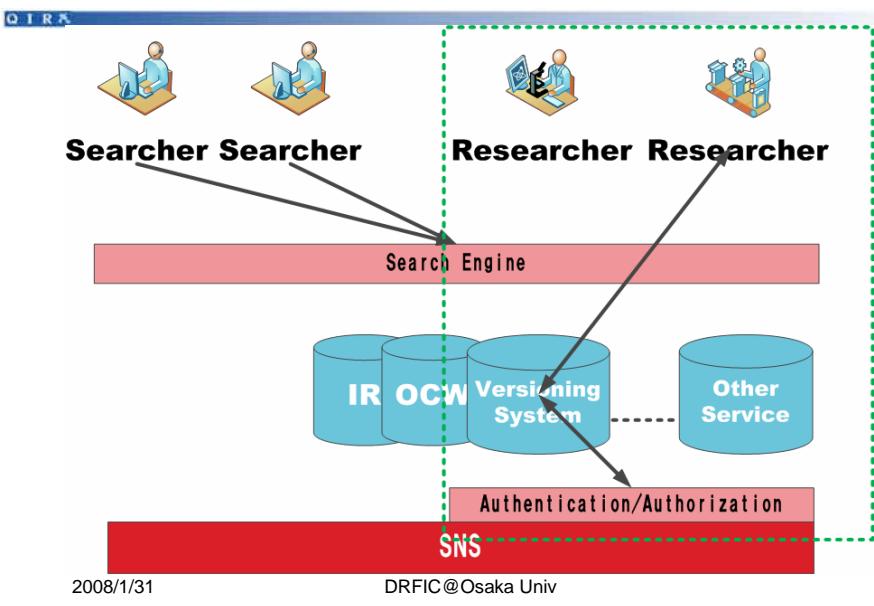 - Only fixed metadata is used, such as title, author, abstract, ···
- In our model
  - Commets, notes, and discussion about resources also can be metadata

Given query

User's comment matched!

Hilight the matches

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Use Case: Resource Hopping

Versioning System

OCW

IR

Preparation   Fresh Materials   Preserve Forever

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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