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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"



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## MISSION:

QIR

### **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

QIR



- **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**

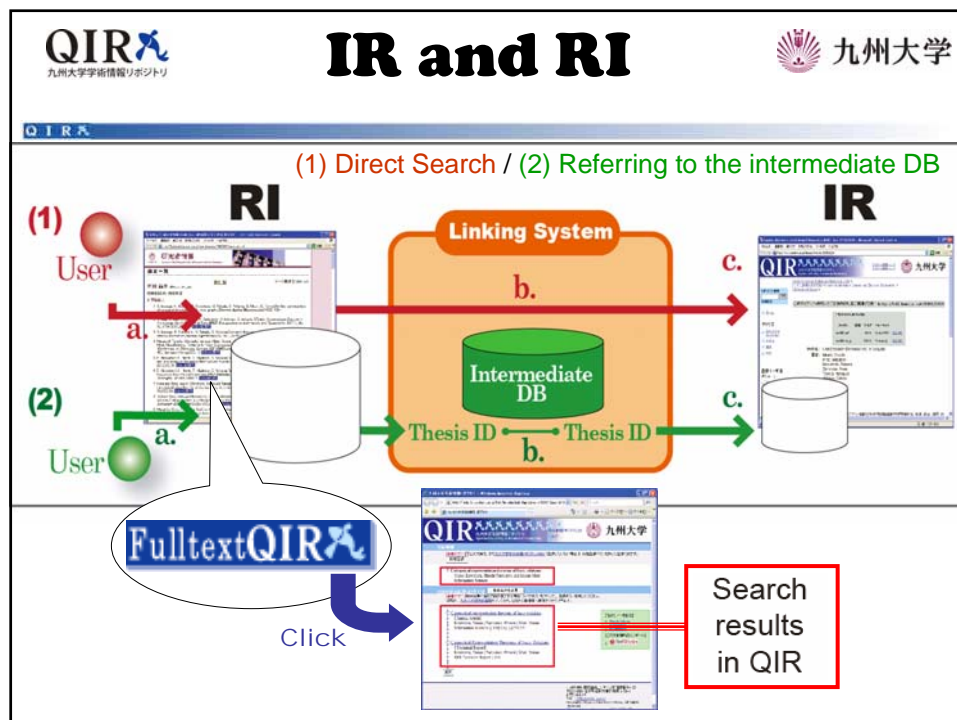
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## OBSERVATION (1)

QIR

- **SEARCHES AND VISUALIZATION ARE DONE IN VARIOUS WAYS**
  - RI AND IR (POSTER No.4)
  - TAG CLOUD
  - SOCIAL TAGGING AND LINKING



# TAG CLOUD



Q I R 式

# SOCIAL TAG AND LINK



Q I R 式

## OBSERVATION (1)

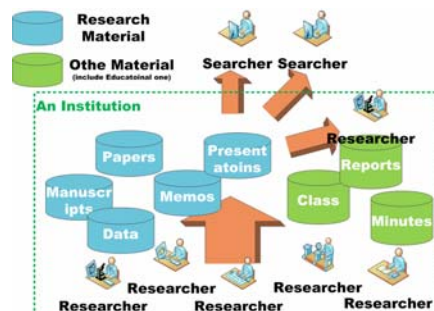
Q I R A

- **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)

Q I R A

- **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



Q I R S

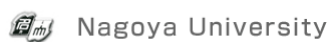
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Integrated Searching Environment for Education

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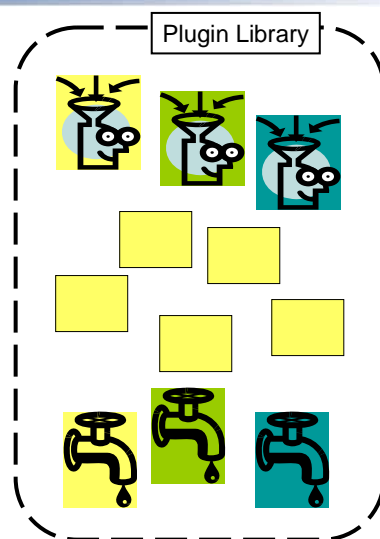
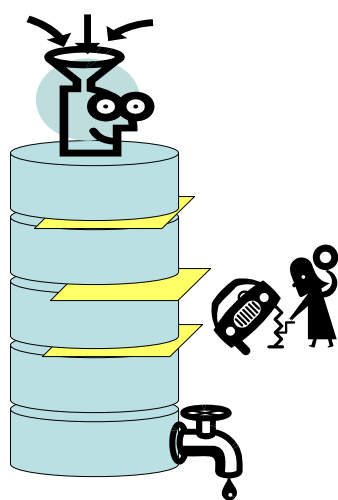
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<b>海外サイト</b> <input type="button" value="全選択"/> <input type="button" value="解除"/> <input type="checkbox"/> British Library <input type="checkbox"/> Library of Congress <input type="checkbox"/> CINAHL		

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# MODULAR COMMANDS FOR DATA CONVERSION



Q I R S



## OBSERVATION (2)

Q I R A

- **THERE ARE VARIOUS IRs IN THE INSTITUTION ALREADY.**

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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?

Q I R A

**SO, CAN WE SAY IT'S SUSTAINABLE?**

**NOBODY IN THE PROJECT SAID 'YES.'**

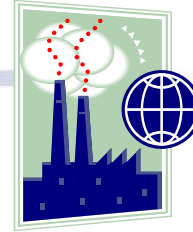


## ANALOGY WITH ECOLOGY

Q I R A

### ECOLOGICAL SUSTAINABILITY:

- PEOPLE **WANT** TO USE ENERGY
- BUT IT **HARMS** THE ENVIRONMENT



### IR-LOGICAL(!?) 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.

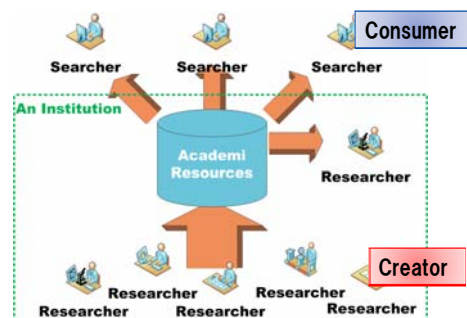
## APPROACH:

### "RE-SEARCH IS NOT A SEARCH"

Q I R A

RESEARCHERS **MUST**  
**CREATE** PAPERS AS  
GOOD/MANY AS  
POSSIBLE!

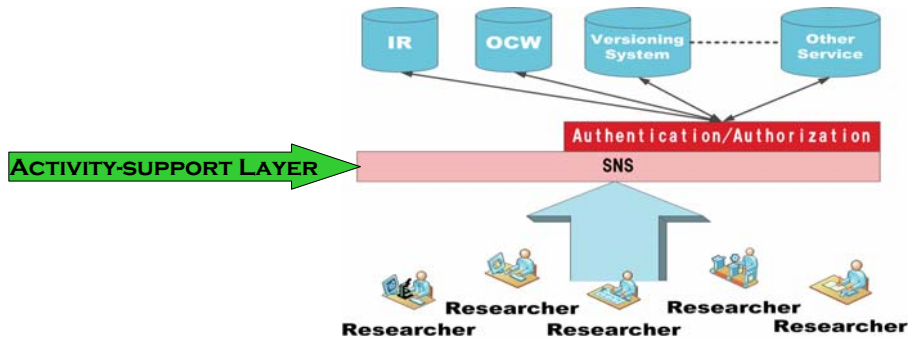
→ LET THE IR SUPPORT  
TOTAL ACTIVITY OF  
PAPER **CREATION**.



## INTRODUCING 'ACTIVITY-SUPPORT LAYER'

Q I R S

- 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

Q I R S

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

Q I R S

- 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

Libros 検索

キーワード 池田大輔

Given query

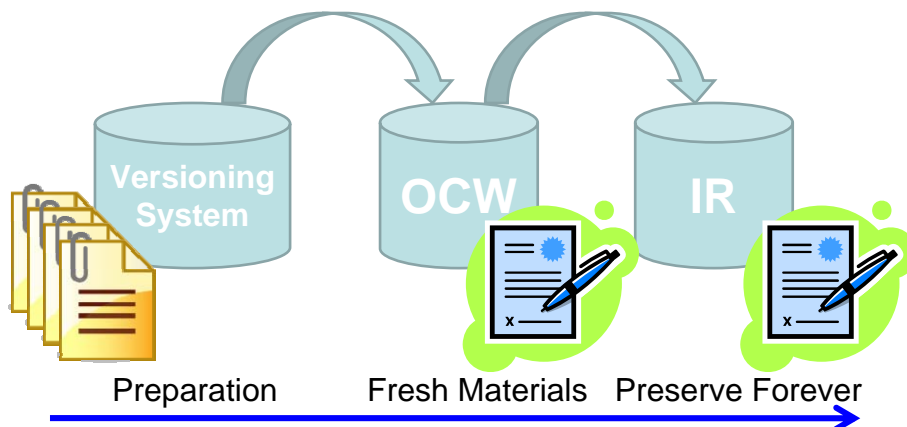
User's comment matched!

Highlight the matches

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# USE CASE: RESOURCE HOPPING

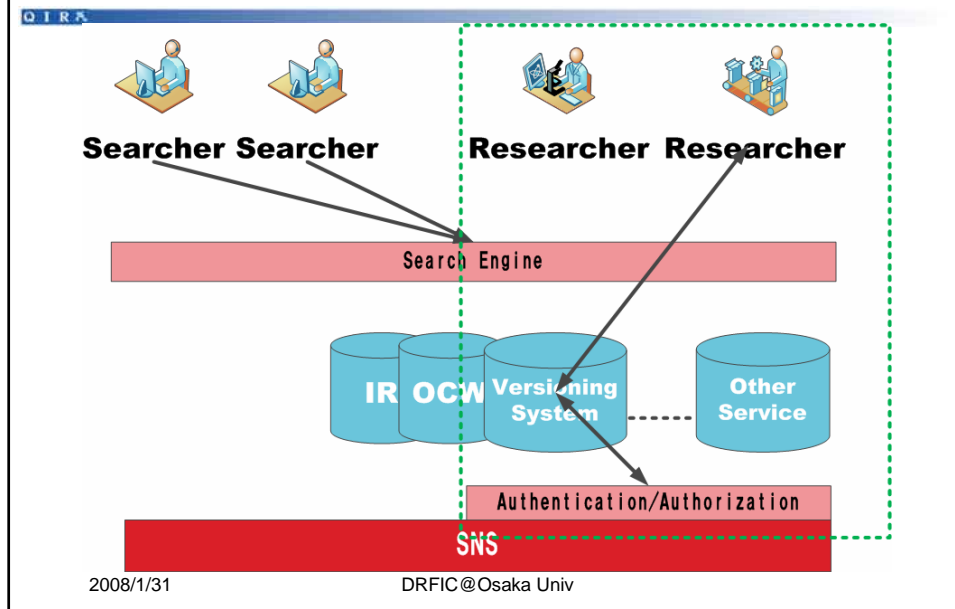
Q I R S



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## 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