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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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2008/1/31

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A Hidden Project in CSI...

"INTEGRATION AND PRESENTATION OF DIVERSE INFORMATION RESOURCES"



2008/1/31

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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**

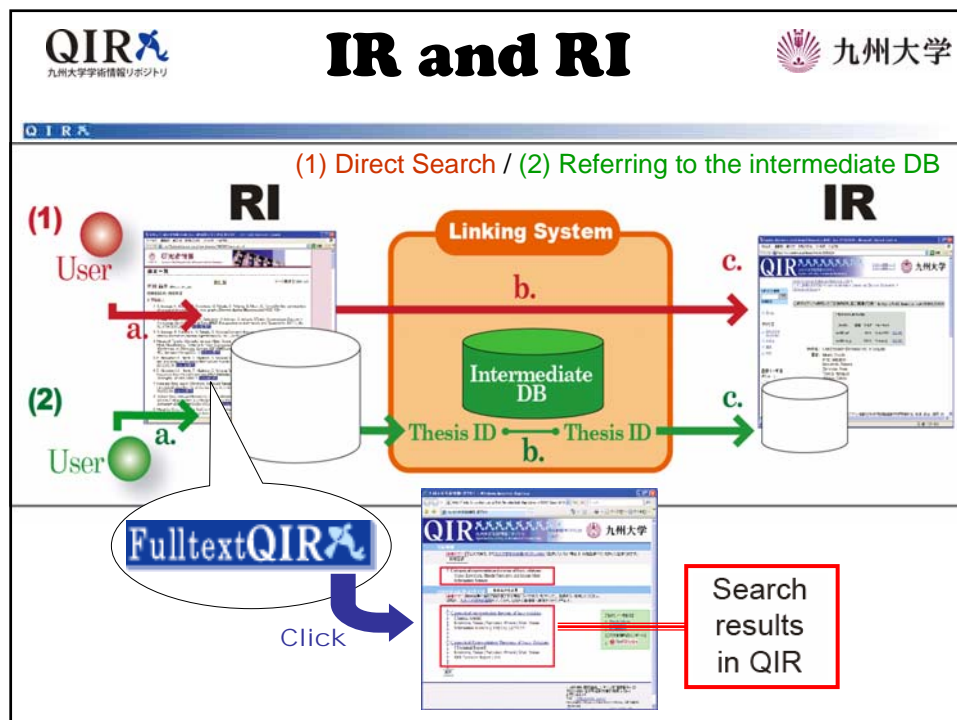
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OBSERVATION (1)

QIR

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



OBSERVATION (1)

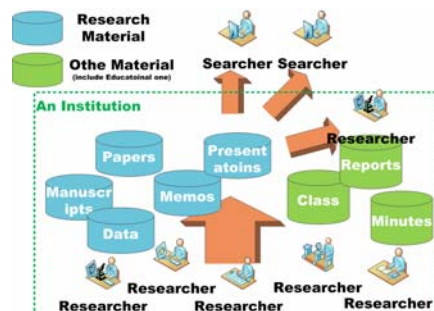
Q I R A

- **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

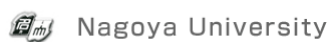
三重大学 統合検索システム
I See (アイズ)
Integrated Searching Environment for Education

機関リポジトリ タイムアウト: 15 秒

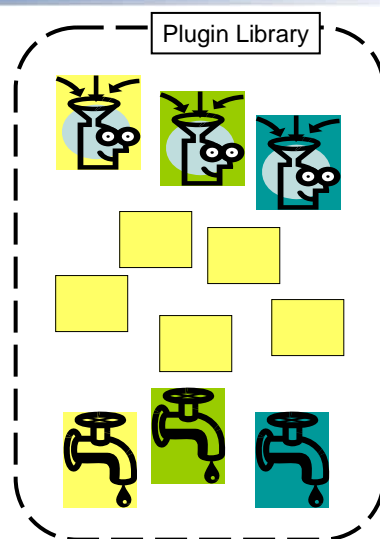
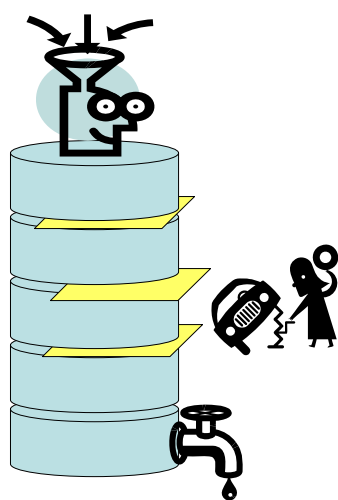
三重大学 <input type="button" value="全選択"/> <input type="button" value="解除"/> <input checked="" type="checkbox"/> 三重大学機関リポジトリ <input checked="" type="checkbox"/> 三重大学附属図書館OPAC	NDL-OPAC <input type="button" value="全選択"/> <input type="button" value="解除"/> <input type="checkbox"/> NDL-OPAC <input type="checkbox"/> 雑誌記事索引	NII <input type="button" value="全選択"/> <input type="button" value="解除"/> <input checked="" type="checkbox"/> CiNii <input checked="" type="checkbox"/> WebeatPlus <input checked="" type="checkbox"/> NACSIS W <input checked="" type="checkbox"/> JuNii <input checked="" type="checkbox"/> NII-DBR
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海外サイト <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?

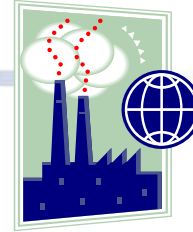
NOBODY IN THE PROJECT SAID 'YES.'

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.

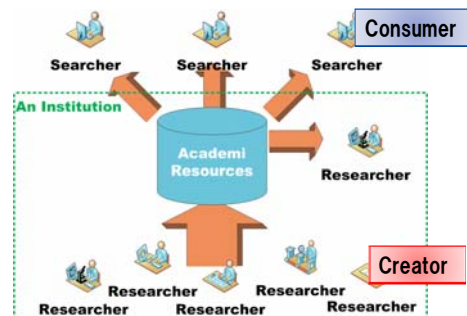
APPROACH:

“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

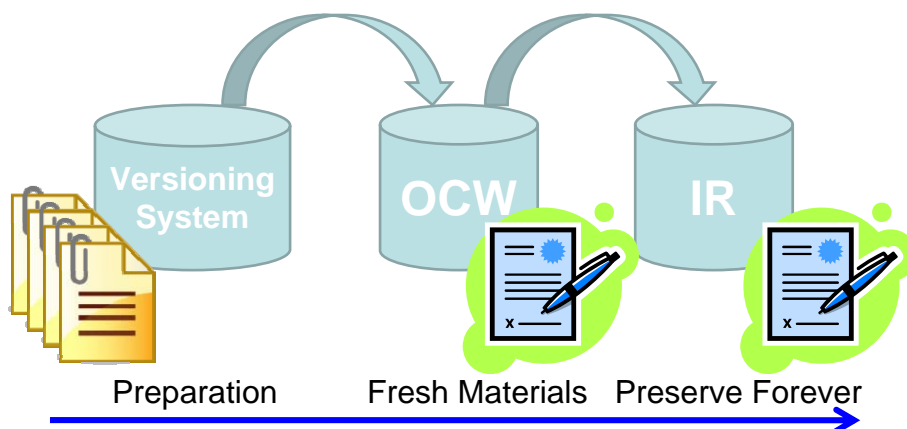
1. RFIDリーダー
RFIDリーダー池田大輔氏の論文見ました。難しい

2. 半構造化文書に対する木構造と文字列を組合せたラッパーの自動生成法
半構造化文書に対する木構造と文字列を組合せたラッパーの自動生成法。山田 義寛、池田 大輔、廣川 佐千男。ラッパー生成。同種の項目を多数含む半構造化文書群から、各項目を抽出するラッパーの自動生成法を提案する。本手法では、まず部分文字列の長さを出発頻度に基づき、半構造化文書を構造化記述部分とコンテンツ記述部分に分離する。これにより、機械学習によるラッパー生成で必要となる人手による訓練例の作成が不要となる。次に、対象文書を木構造とし

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USE CASE: RESOURCE HOPPING

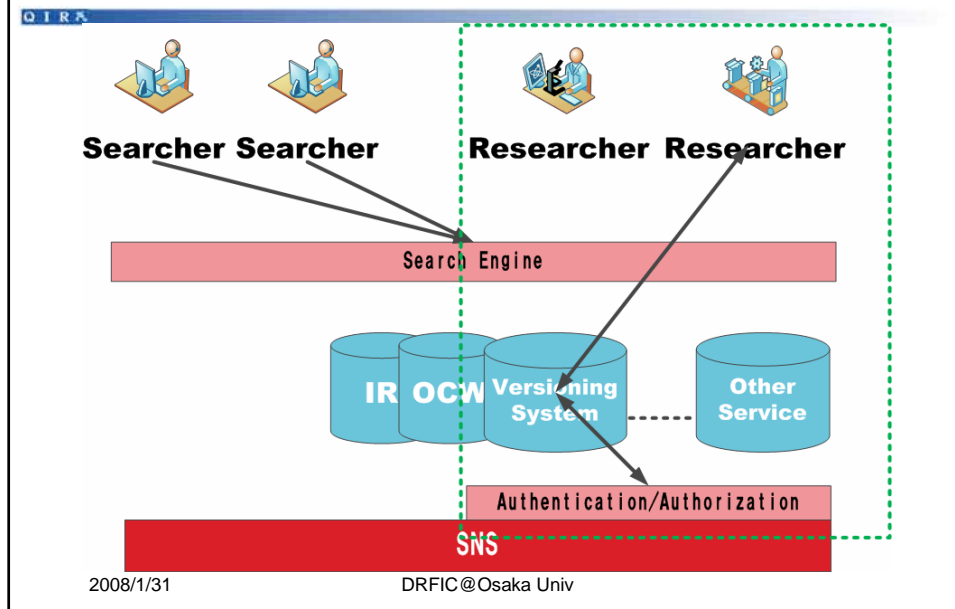
Q I R S



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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