



Open Repository 2008 報告

国立情報学研究所 学術ネットワーク研究開発センター
山地一禎

Outline

- ▶ Overview
 - ▶ Introduction
 - ▶ Conference SNS
 - ▶ Conference Repository
 - ▶ Southampton
 - ▶ Program
- ▶ Topics
 - ▶ Science Repository
 - ▶ DSpace 1.5
 - ▶ SWORD
 - ▶ OAI–ORE
 - ▶ Federation
- ▶ Federation in CSI



Self Introduction

- ▶ 名前
 - ▶ 山地一禎（やまじ かずつな）
- ▶ 経歴
 - ▶ 2000
 - ▶ 豊橋技術科学大学 大学院工学研究科 学位取得
 - 瞳孔を指標とした自律神経活動モニタ法と微小重力模擬実験への応用に関する研究
 - ▶ 2000-2002
 - ▶ 日本学術振興会特別研究員 和歌山県立医科大学眼科
 - 虹彩に関する生体生理工学的数理モデルの構築
 - 眼内平滑筋に関する生理・薬理学的研究
 - ▶ 2002-2007
 - ▶ 理化学研究所 脳科学総合研究センター ニューロインフォマティクス技術開発チーム
 - 眼内平滑筋に関する生理・薬理学的研究
 - 神経科学におけるデータ共有プラットフォームの開発
 - ▶ 2007-現在
 - ▶ 国立情報学研究所 学術ネットワーク研究開発センター
 - 学術コンテンツ流通に関する基盤技術開発に関する研究



Impossible Date : 1st – 4th April 2008



Impossible Date : 1st – 4th April 2008



Wonderful Support



with Friends



Schedule

- ▶ Paper Submission Deadline
 - ▶ Friday 7th December 2007
- ▶ Poster Submission Deadline
 - ▶ Monday 4th February 2008
- ▶ Metadata of all items
 - ▶ Monday 3rd March 2008
- ▶ Final Version of Papers & Poster Descriptions
 - ▶ Friday 28th March 2008
- ▶ Presented Materials
 - ▶ Friday 28th March 2008



Conference SNS



- ▶ 大会前にSNSを設置
 - ▶ <http://or08.crowdvine.com/>
- ▶ 大会前の自己紹介
- ▶ 大会中のアポ
- ▶ 参加メンバーの傾向
 - ▶ 肩書き
 - ▶ 所属
 - ▶ トピックス

Conference Repository

The screenshot shows the 'Welcome to OR08 Publications' page. At the top, there's a navigation bar with links for 'Conference Home', 'Repository Home', 'About', 'Browse by Session', 'Browse by People', and 'Advanced Search'. Below the navigation is a search bar with 'Search' and 'Advanced Search' buttons. A banner for 'OR2008 Third International Conference on Open Repositories' is displayed. On the left, there's a sidebar with a warning icon about persistent URLs and a main content area with sections for 'Main Conference' (Keynote, Repository Developer Challenge Finalists, Tuesday 1st April, Wednesday 2nd April, Object Reuse and Exchange (ORE) Open Day), 'User Groups' (DSpace User Group, EPrints User Group, Fedora User Group), and 'Favourite OR08 Downloads in April 2008' (Institutional Repository Checklist, Rich Tags: Cross-Repository Browsing, Repositories and Digital Rights: An Overview of the Landscape and an Action Plan, SWORD, Repositories, Web 2.0 and scholarly practice, Enhancing Institutional Repositories with OpenID and Connotea, Repository Case Histories). The right side features a sidebar titled 'Favourite OR08 Downloads in April 2008' with a list of items.

- ▶ EPrints3カスタマイズ
- ▶ Paper, Posterを保存
- ▶ 使いやすいIF

- ▶ 報告書作成時に重宝

Program

- ▶ Main Conference
 - ▶ Keynote
 - ▶ Repository Developer Challenge Finalists
 - ▶ Tuesday 1st April
 - ▶ 1 – Web 2.0
 - ▶ 2a – Social Networking
 - ▶ 2b – Sustainability (a)
 - ▶ 3 – Interoperability
 - ▶ Birds of a Feather (Tues)
 - ▶ Posters
 - ▶ Wednesday 2nd April
 - ▶ 4a – National Perspectives
 - ▶ 4b – Scientific Repositories (a)
 - ▶ 5a – Legal
 - ▶ 5b – Scientific Repositories (b)
 - ▶ 6a – Sustainability (b)
 - ▶ 6b – Models, Architectures & Frameworks
 - ▶ 7 – Usage
 - ▶ Birds of a Feather (Wed)
 - ▶ Repository Managers
 - ▶ Object Reuse and Exchange Open Day
- ▶ User Groups
 - ▶ DSpace User Group
 - ▶ Case Studies
 - ▶ DSpace 1.5 Launch and beyond
 - ▶ Engagement/Interaction
 - ▶ Getting to grips with 1.5
 - ▶ Interoperability
 - ▶ EPrints User Group
 - ▶ EPrints 3.1 and EPrints Future
 - ▶ EPrints Training and Support
 - ▶ Repository Analytics
 - ▶ Research Assessment Experience
 - ▶ Fedora User Group
 - ▶ Architecture
 - ▶ Case Studies
 - ▶ Datasets
 - ▶ Fedora Plenary
 - ▶ Front Ends
 - ▶ Preservation and management
 - ▶ Programming
 - ▶ Search
 - ▶ Semantic Technologies

Southampton Downtown



Southampton University



Conference Hall



The First Impression



After the First Day



Topics

- ▶ Science Repository
- ▶ DSpace 1.5
- ▶ SWORD
- ▶ OAI-ORE
- ▶ Federation



Topics

- ▶ **Science Repository**
- ▶ DSpace 1.5
- ▶ SWORD
- ▶ OAI-ORE
- ▶ Federation



Science Repository Sessions

- ▶ Main Conference
 - ▶ **Keynote**
 - ▶ Repository Developer Challenge Finalists
 - ▶ **Tuesday 1st April**
 - ▶ 1 – Web 2.0
 - ▶ 2a – Social Networking
 - ▶ 2b – Sustainability (a)
 - ▶ 3 – Interoperability
 - ▶ **Wednesday 2nd April**
 - ▶ 4a – National Perspectives
 - ▶ **4b – Scientific Repositories (a)**
 - ▶ 5a – Legal
 - ▶ **5b – Scientific Repositories (b)**
 - ▶ 6a – Sustainability (b)
 - ▶ 6b – Models, Architectures & Frameworks
 - ▶ 7 – Usage



Science Repository Related Presentation

- ▶ Keynote
 - ▶ Murray-Rust, P.
Repositories for Scientific Data
- ▶ 4b – Scientific Repositories (a)
 - ▶ Simon Coles and Liz Lyon.
The eCrystals Federation
 - ▶ Alan Tonge. SPECTRa-T.
Semantic Web Data Repositories from Chemistry-Thesis Data Mining
 - ▶ Daisuke Ikeda and Sozo Inoue.
A Sustainable Model based on the Social Network Service to Support the Research Cycle
- ▶ 5b – Scientific Repositories (b)
 - ▶ Jim Downing, Nick Day and Peter Murray-Rust.
CrystalEye: From Desktop To Data Repository
 - ▶ Simon Coles and Leslie Carr.
Experiences with Repositories & Blogs in Laboratories
 - ▶ Christian Gumpenberger.
Open Access to Knowledge@ Novartis – new ways of knowledge sharing in the pharmaceutical industry



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Science Repository

The eCrystals Federation



Open Science

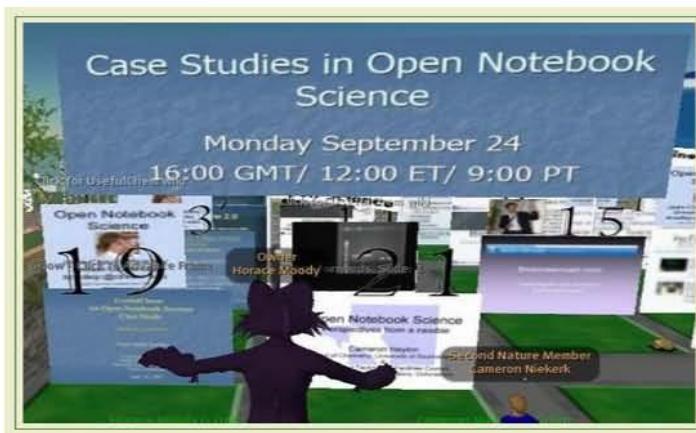


petermr's blog
A Scientist and the Web



....is happening now

- Blogging of results data
- Open grant proposals
- Community repositories for data
- Open Notebook Science (ONS) tutorials in Second Life



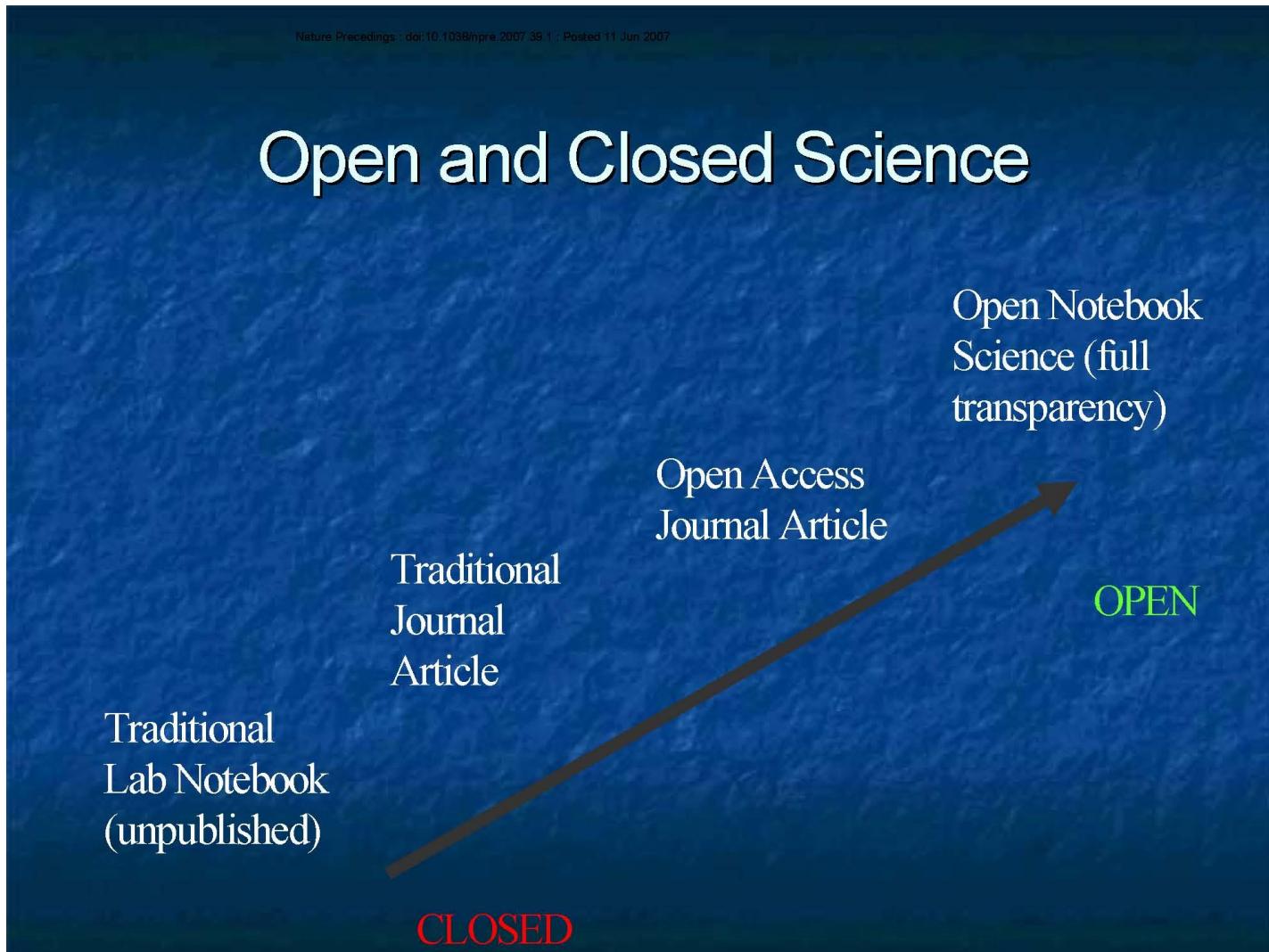
Useful Chemistry [XML](#) [subscribe with bloglines](#) UsefulChem molecules [UsefulChem wiki](#) UsefulChem Experiments



Coles, S. and Lyon, L. (2008) The eCrystals Federation. In: Third International Conference on Open Repositories 2008, 1–4 April 2008, Southampton, United Kingdom.

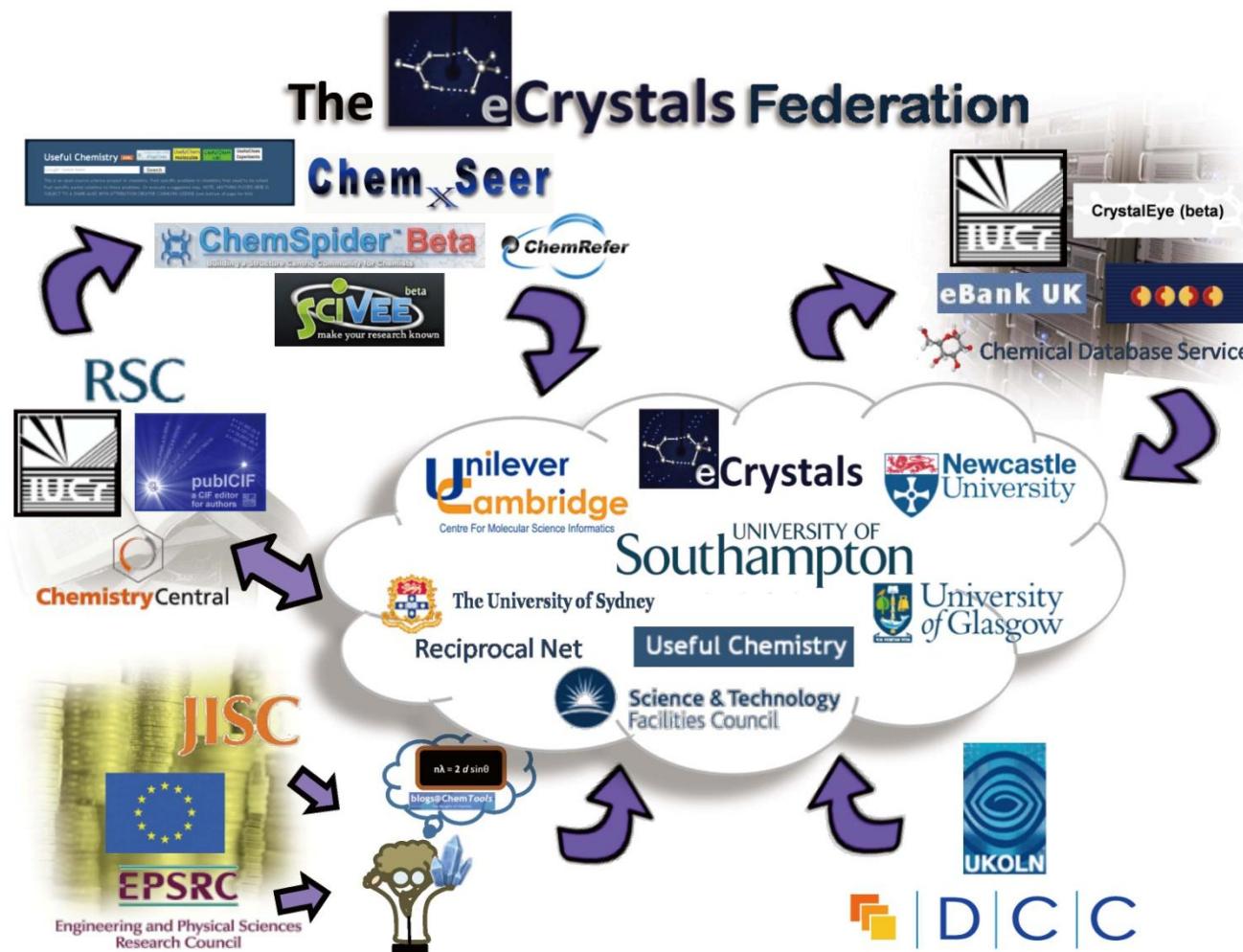
Science Repository

The eCrystals Federation (ONS)



Science Repository

The eCrystals Federation



Science Repository Related Presentation

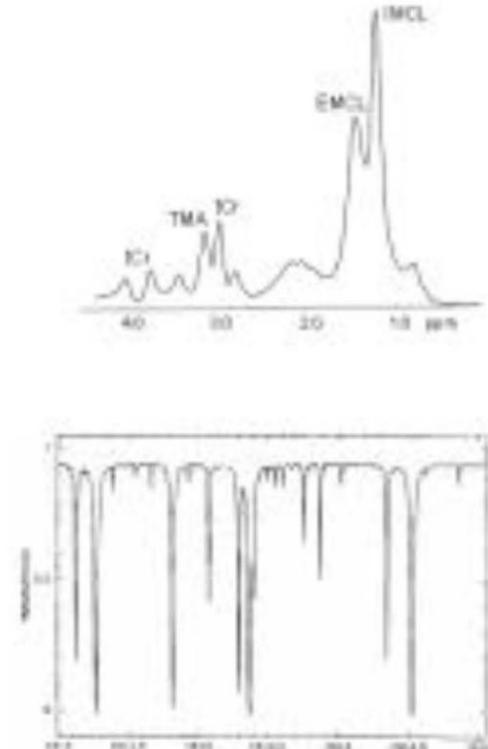
- ▶ Keynote
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Science Repository

Experiences with Repositories & Blogs in Laboratories

The Problem: Publishing Data



R4L Repository for
the Laboratory

Preparation of $\text{CPh}_3[\text{CPBb}]_2\text{BCNPBb}$ (1)

Potassium cyanide (33.6 mg, 0.5 mmol) was ground to a powder using a pestle and mortar in a dry box. PBB (0.478 g, 0.5 mmol) and 50 mL diethyl ether were then added, and the mixture was heated to reflux. After 1 h, the reaction mixture was cooled to room temperature and off-white form which was washed with warm hexane (50 mL) to give $\text{K}[\text{CPBb}]$ as a white powder (0.495 g, 485 mmol). This product was stirred with triphenylboronanes (0.135 g, 0.4 mmol) in dichloromethane (5 mL) for 2 h. The solution was filtered to remove KCl concentrated to ca. 5 mL and cooled to -26°C to give an orange crystalline solid, yield 0.324 g (0.315 mmol, 63% with respect to KCN) IR (nujol) 2189 cm^{-1} (ν_{as}). ^1H NMR (CD_2Cl_2 , 20 $^\circ\text{C}$, 300.13 MHz) δ 28 (1, H, $J = 7.5$ Hz, *p*-Ph), 7.90 (1, 6 H, $J = 7.7$ Hz, *m*-Ph), 7.70 (1, 6 H, $J = 7.3$ Hz, *p*-Ph). ^{13}C NMR (CD_2Cl_2 , 20 $^\circ\text{C}$, 100.43 MHz) δ 211.4 (CPh_3), 144.0 (p-C), 143.0 (m-C), 130.3 (*pso*-C), 131.0 (*o*-C), 151.6, 150.3, 147.5, 146.4, 140.3, 99.6, 136.9, 136.3, 128.3, 113.5, 109.5 (Ar, C-F). ^{19}F NMR (CD_2Cl_2 , 20 $^\circ\text{C}$, 96.3 MHz) δ -16.2 (br s). ^{31}P NMR

Spectroscopic analysis is often performed to ensure a reaction is proceeding according to plan – as a result <5% are published (via a process with heavy information loss)

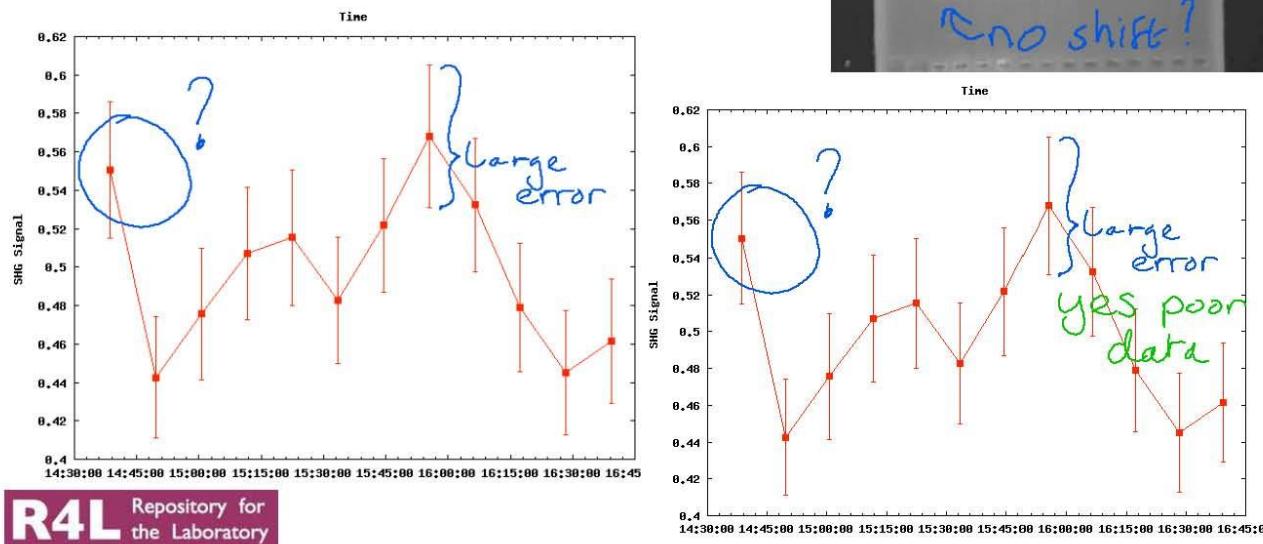


Science Repository

Experiences with Repositories & Blogs in Laboratories

Comments and Annotation

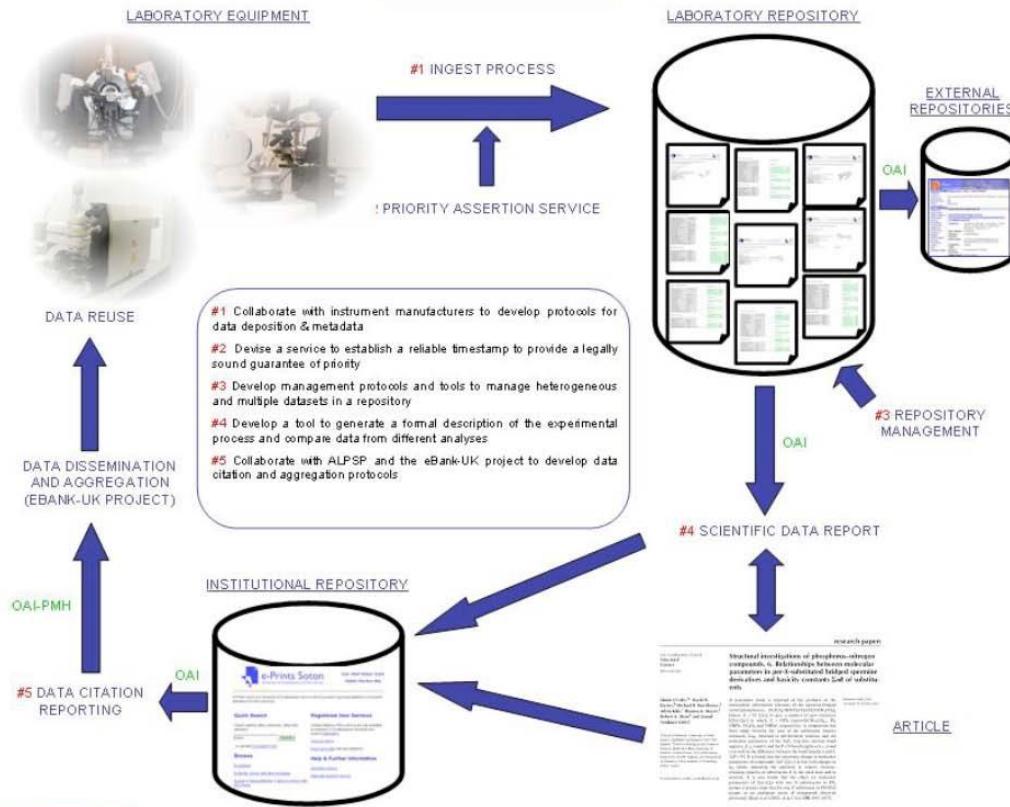
- Chemists need to scribble!
- A picture says a thousand words!
- Need for more advanced Blog tools / technology



Science Repository

Experiences with Repositories & Blogs in Laboratories

The Plan



R4L Repository for
the Laboratory



Coles, S. and Carr, L. (2008) *Experiences with Repositories & Blogs in Laboratories*. In: Third International Conference on Open Repositories 2008, 1–4 April 2008, Southampton, United Kingdom.

Science Repository

平成20-21年度委託事業（領域1）提案書

機関名

4. 実施体制

(1) 実務体制（事業開始時）

| 業務内容 | 係名等 | FTE※ |
|--------|-----|------|
| コンテンツ | | |
| システム | | |
| 広報 | | |
| その他（ ） | | |

※ FTE : full time equivalent の略。専従換算(FTE 换算) 値。

(2) 教員との連携

有 · 無

- ・ 有の場合、連携活動の内容をできるだけ詳細に記述してください。



Topics

- ▶ Science Repository
- ▶ DSpace 1.5
- ▶ SWORD
- ▶ OAI-ORE
- ▶ Federation



DSpace 1.5

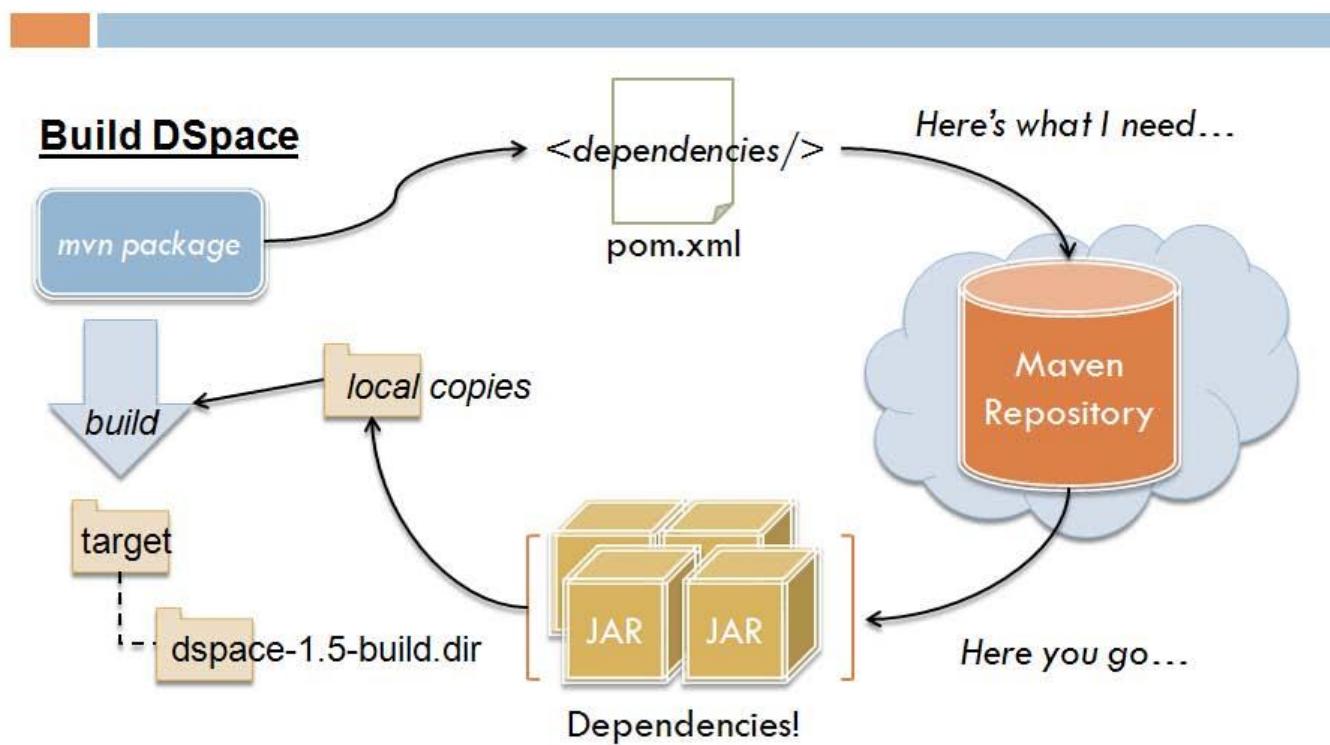
DSpace 1.5 Overview

- Maven Build Architecture
 - DSpace “modules”
 - Application “Overlays”
- XMLUI (aka. Manakin)
- Configurable Submission
- Streamlined Browse System
- SWORD Interface
- LNI (Lightweight Network Interface)



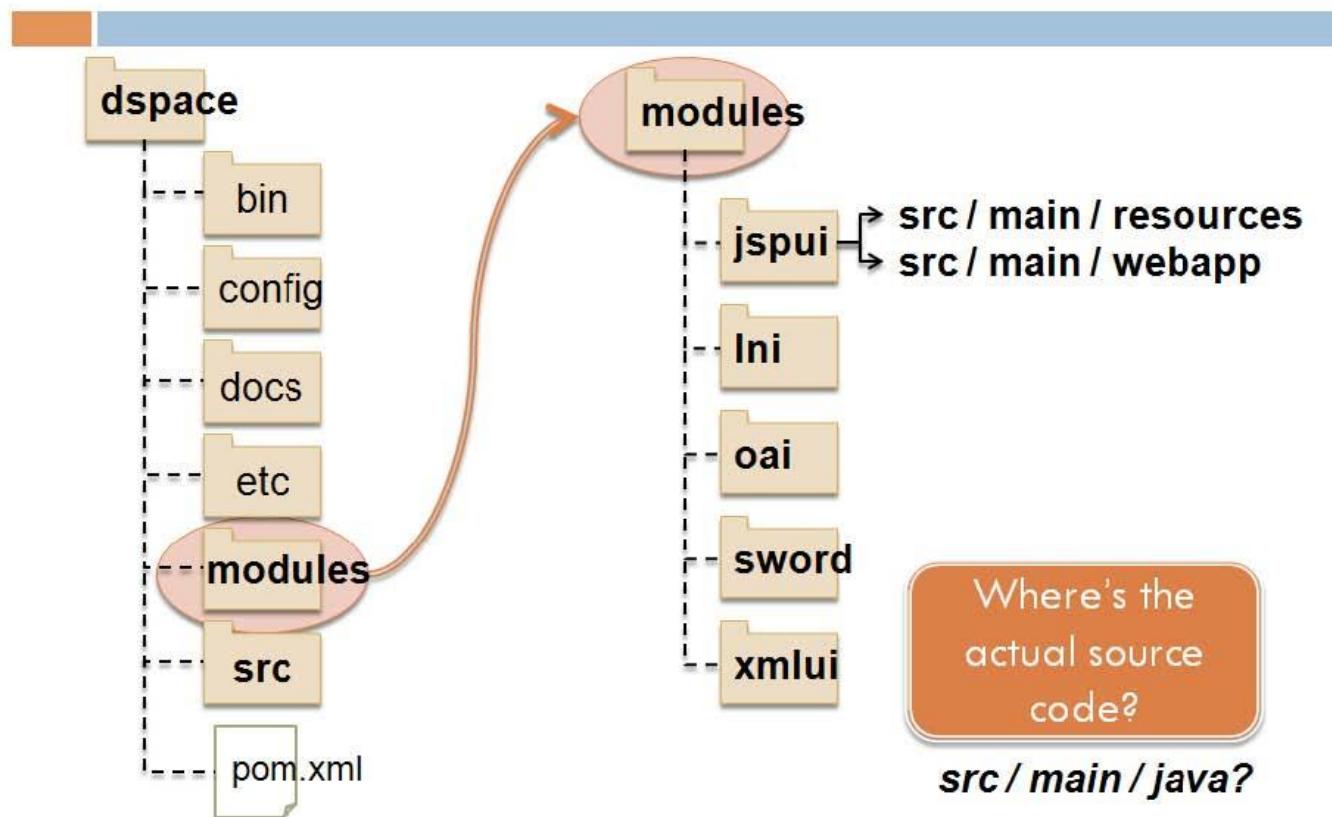
DSpace 1.5 Maven

Ok, so what really is Maven?

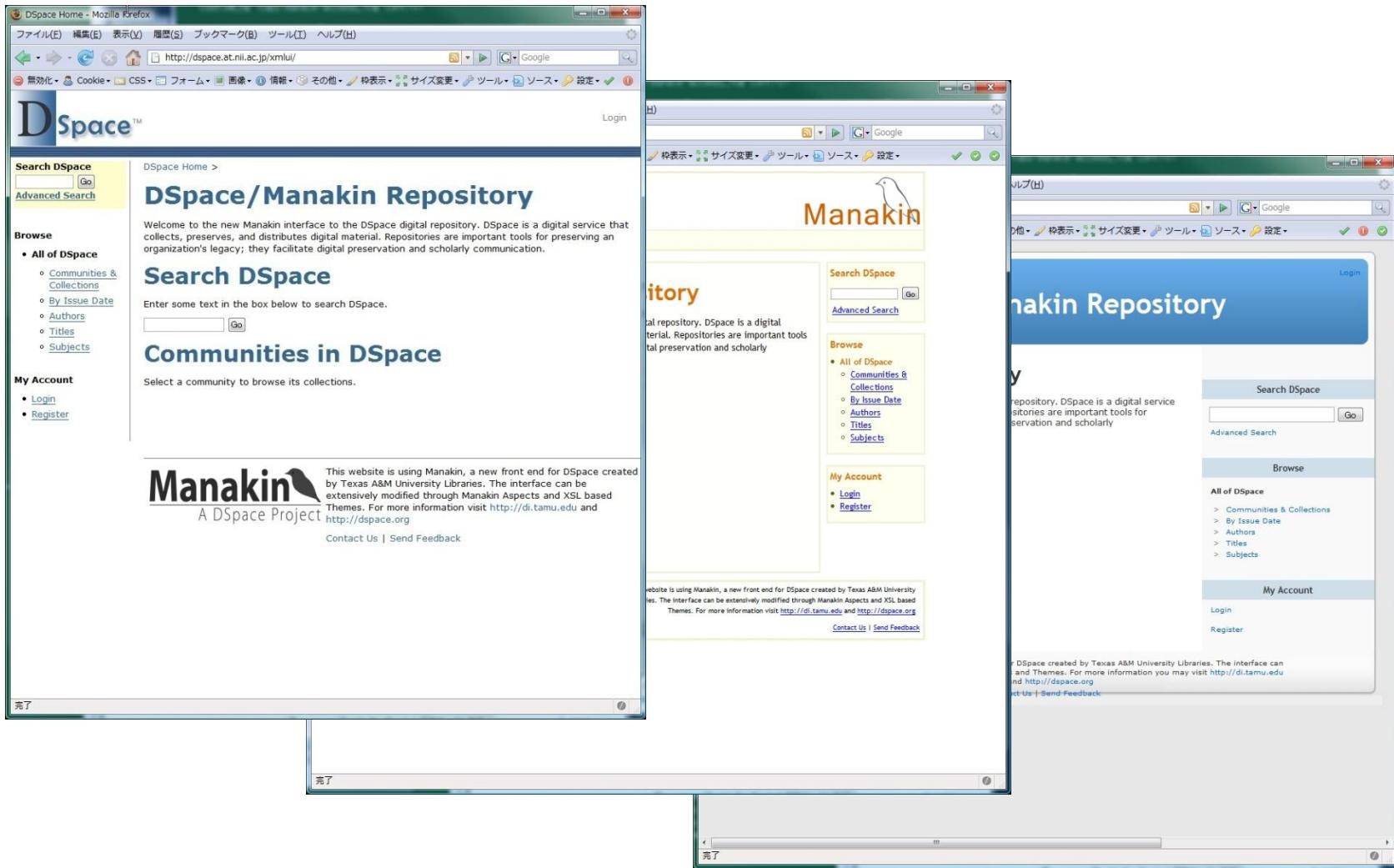


DSpace 1.5 Maven

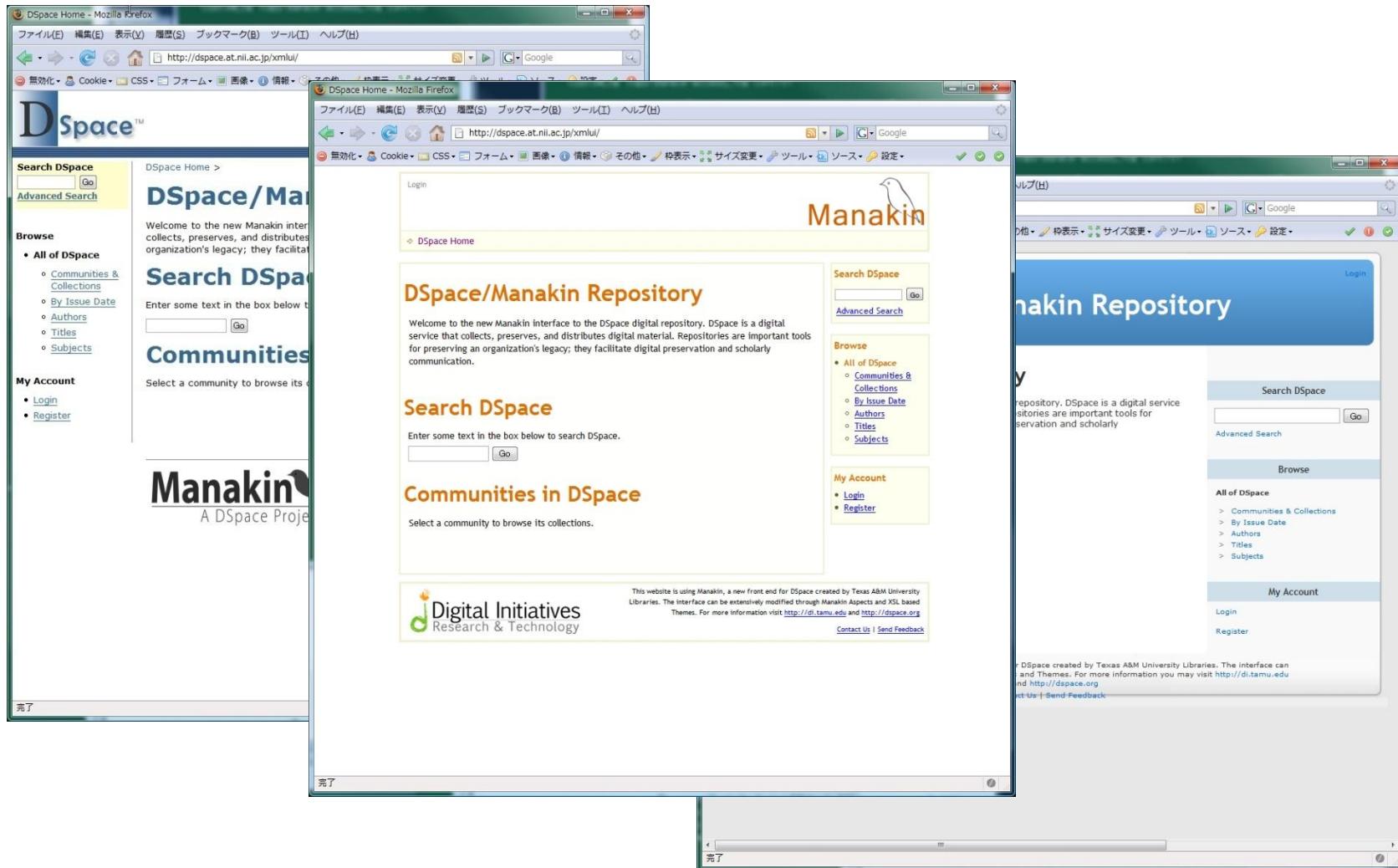
DSpace 1.5 “Modules”



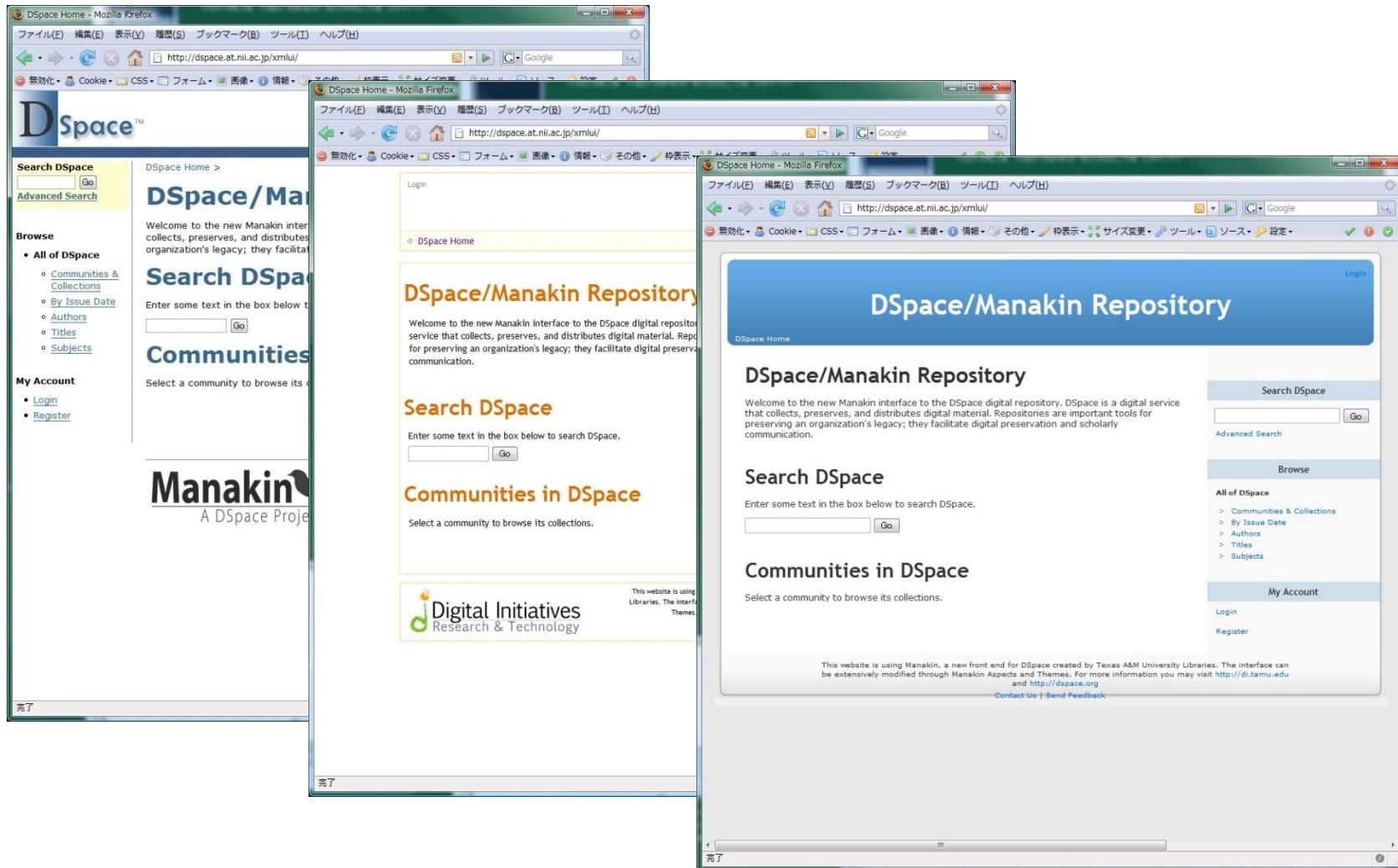
DSpace 1.5 Manakin



DSpace 1.5 Manakin



DSpace 1.5 Manakin



Topics

- ▶ Science Repository
- ▶ DSpace 1.5
- ▶ SWORD
- ▶ OAI-ORE
- ▶ Federation



SWORD

The Acronym

- ▶ *Simple*
 - ▶ lightweight, agile and fit-for-purpose
- ▶ *Web service*
 - ▶ independent of proprietary software, supports standard interfaces
- ▶ *Offering*
 - ▶ repository services
- ▶ *Repository*
 - ▶ or any system which wants to put or receive content
- ▶ *Deposit*
 - ▶ or put, or post, or register, or add – a little step in the ingest workflow

based on Atom Publishing Protocol



SWORD

Use cases

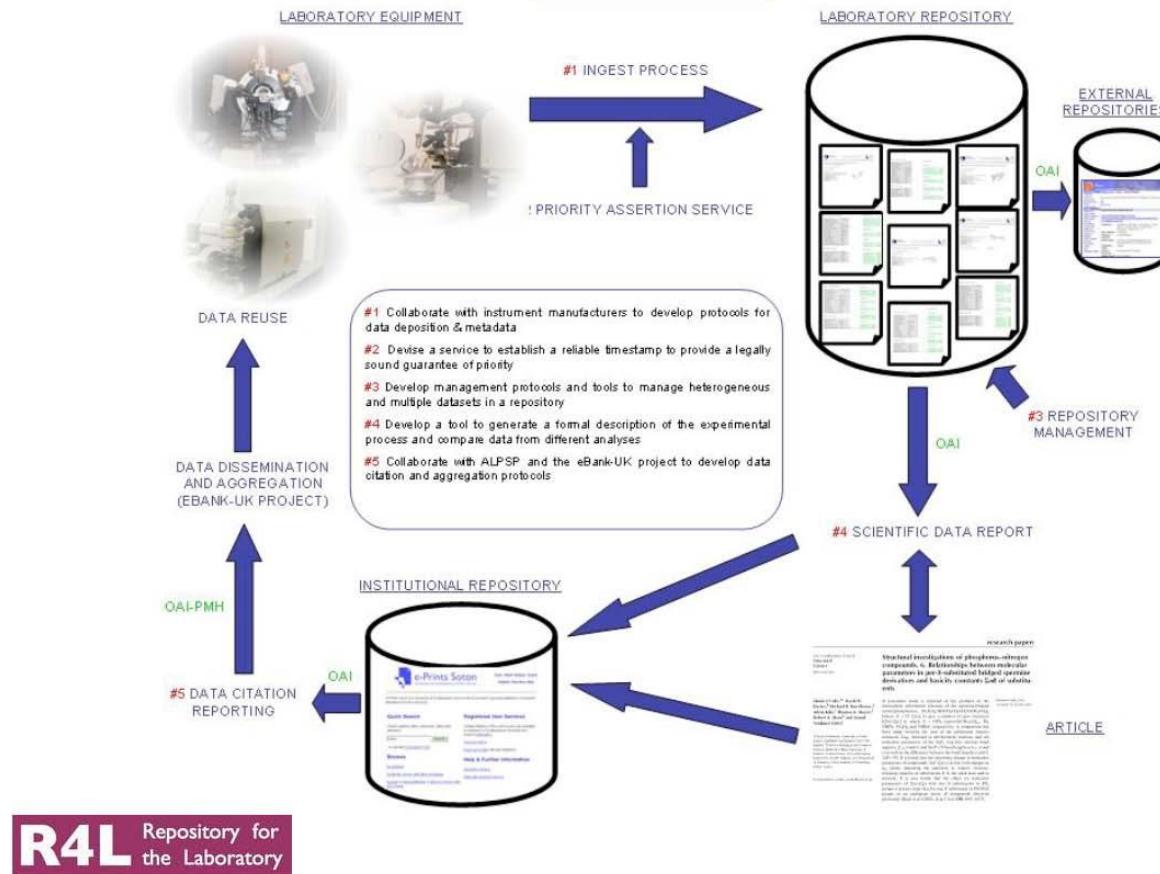
- ▶ Deposit from a Desktop/Online tool
- ▶ Multiple deposit
 - ▶ deposit to institutional and (mandated) funders' repository with one action
- ▶ Machine deposit
 - ▶ automated deposit from a laboratory machine
- ▶ Migration/transfer
 - ▶ to a preservation service
- ▶ Mediated deposit
 - ▶ deposit by a nominated representative, to additional repositories



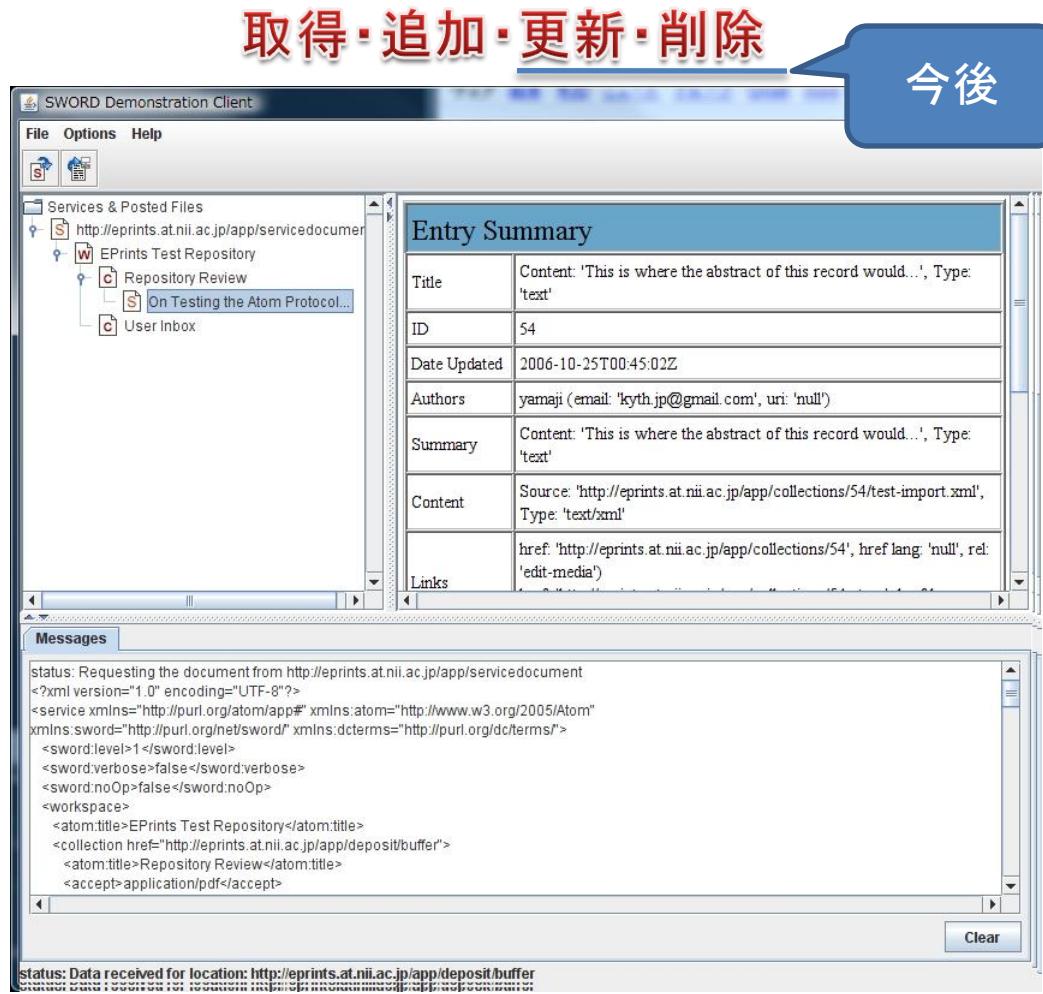
SWORD

R4L from the view point of SWORD

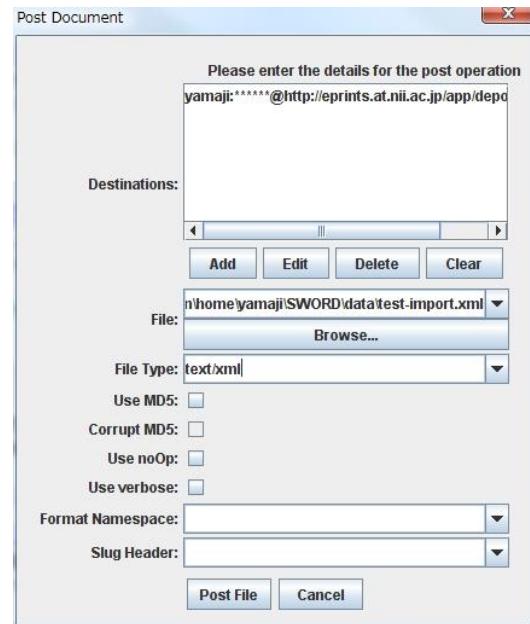
The Plan



SWORD Current Status



- ▶ サーバ
 - ▶ DSpace
 - ▶ EPrints
 - ▶ Fedora
- ▶ クライアント
 - ▶ Desktop Client
 - ▶ Online Client



Topics

- ▶ Science Repository
- ▶ DSpace 1.5
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- ▶ Federation



OAI-ORE

学術機関リポジトリ構築連携支援事業 ドキュメント 翻訳資料 - Windows Internet Explorer
http://www.openarchives.org/ore/ oai-ore

ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)

Open Archives Initiative Protocol - Object E...

Open Archives Initiative -> ORE

Home Projects Specifications Community About OAI

Open Archives Initiative -> OAI-PMH
OAI-ORE

Aggregations of Web Resources

Open Archives Initiative Object Reuse and Exchange (OAI-ORE) defines standards for the description and exchange of aggregations of Web resources. These aggregations, sometimes called compound digital objects, may combine distributed resources with multiple media types including text, images, data, and video. The goal of these standards is to expose the rich content in these aggregations to applications that support authoring, deposit, exchange, visualization, reuse, and preservation. Although a motivating use case for the work is the changing nature of scholarship and scholarly communication, and the need for cyberinfrastructure to support that scholarship, the intent of the effort is to develop standards that generalize across all web-based information including the increasing popular social networks of "web 2.0".

ORE Specifications and User Guides

- [Table of Contents](#)
- [User Guides](#)
 - [Primer](#)
 - [Resource Map Implementation in Atom](#)
 - [Resource Map Implementation in RDF/XML](#)
 - [Resource Map Implementation in RDFa](#)
 - [HTTP Implementation and Multiple Serializations](#)
 - [Resource Map Discovery](#)
- [Specifications](#)
 - [Abstract Data Model](#)
 - [Vocabulary](#)
 - [Representing Resource Maps Using the Atom Syndication Format](#)

Selected OAI-ORE Resources

- [June 2 Beta Release of OAI-ORE Specifications](#)

The release includes [user guides](#) and [specifications](#) describing the [ORE Data Model](#), [ATOM](#) and [RDF serializations](#), [vocabulary](#), and [discovery](#) mechanisms. It also includes a [Primer](#), which serves as an introduction to the other documents. The release builds on feedback to previous alpha releases. Please use the [ORE Google Group](#) for discussion and critique of these documents.
- [April 4 OAI-ORE Roll-out at OR2008](#)

A meeting was held on April 4, 2008 at the Open Repositories 2008 meeting at the University of Southampton to roll-out the third alpha release of the OAI-ORE specifications. These specifications describe a data model to identify and describe aggregations of web resources, and the encoding of the data model in the XML-based Atom syndication format.
- [March 3 OAI-ORE Roll-out at Johns Hopkins](#)

A meeting was held on March 3, 2008 at Johns Hopkins University to roll-out the second alpha release of the OAI-ORE specifications. These specifications describe a data model to identify and describe aggregations of web resources, and the encoding of the data model in the XML-based Atom syndication format.
- [Report of the May 2007 ORE-TC Meeting](#) - The focus of the meeting was building consensus on named graphs as a underlying model for expressing compound object information.
- [Compound Information Objects white paper](#)

A white paper describing the web-centric OAI-

ページが表示されました

インターネット | 保護モード: 有効 100%

OAI-ORE

「ORE仕様書とユーザガイド アルファ0.2版 日本語訳」

<http://www.nii.ac.jp/irp/archive/translation/oai-ore/0.2/>

ORE仕様書とユーザガイド - 目次
2008年3月2日

注: 本文書はアルファバージョンであり、常に変更の可能性がある。評価およびコメントを受けるために本文書は一般に公開されている。本仕様書または本仕様書でなされた勧告を実装する場合は、これがアルファバージョンであることを認識した上で行うべきである。コメントは [OAI-ORE Googleグループ](#)にお願いしたい。

このバージョン:
<http://www.openarchives.org/ore/0.2/toc>

最新バージョン:
<http://www.openarchives.org/ore/toc>

前のバージョン:
<http://www.openarchives.org/ore/0.1/toc>

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Herbert Van de Sompel, ロスマラモス国立研究所

編集者(ORE技術委員会)
Pete Johnston, Eduserv財團
Michael Nelson, オールドミニオン大学
Robert Sanderson, リバプール大学
Simeon Warner, コーネル大学情報科学

要旨

オープン・アーカイブズ・イニシアティブのオブジェクトの再利用と交換(OAI-ORE)プロジェクトは、Webリソースの集合体を記述、交換するための標準を定義する。本文書は、[序論](#)とOAI-ORE標準を構成する仕様書とユーザガイドの一覧を提供する。

OREユーザガイド 文書

ページが表示されました インターネット | 保護モード: 有効 100%

OAI-ORE

What is this for?

インターネット上のリソースの関連付けを明確にして発信

▶ 対象

- ▶ 関連付けられたHTMLページのセット
- ▶ ソーシャルネットワークサイト内のリソースセット
 - ▶ 本文, 画像, コメント
- ▶ リポジトリ内での複数フォーマットからなるリソースセット
 - ▶ LaTeX, PDF, HTML
- ▶ オーバーレイジャーナル

▶ 御利益

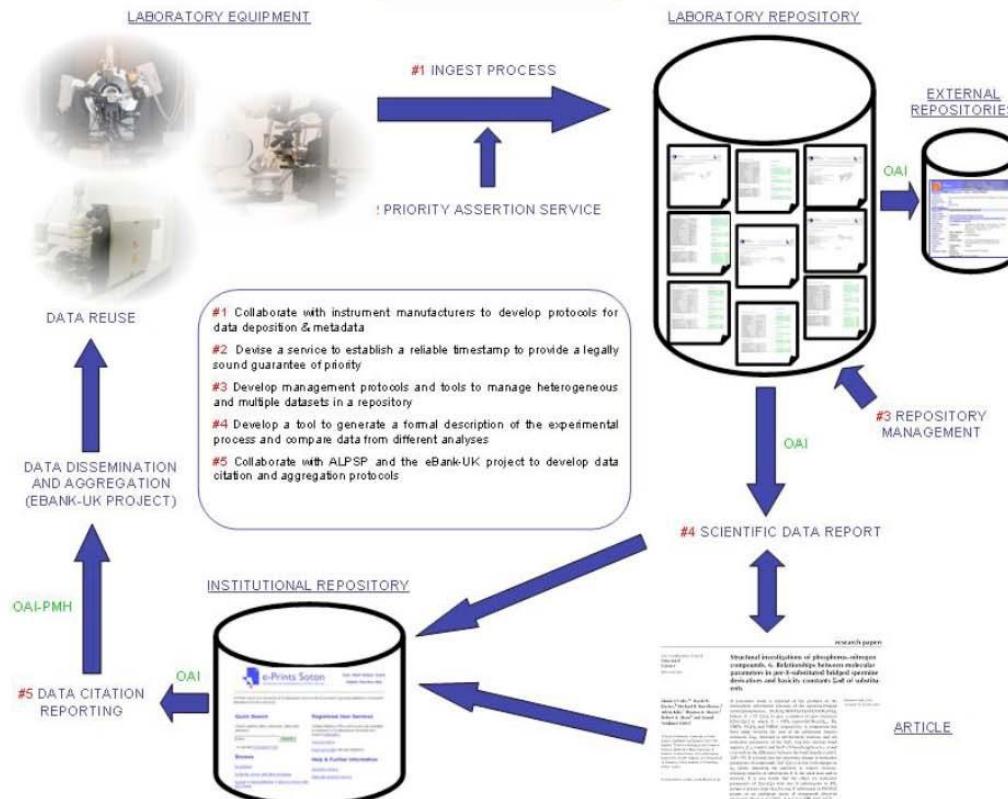
- ▶ サーチエンジンがより賢くクロールできる
- ▶ ブラウザがより賢くナビゲートできる
- ▶ コンテンツアーカイブのためのシステムがより賢く働く
- ▶ 引用関係などの情報をより賢く機械処理できる

学術情報のリユースを可能にし次世代学術コミュニケーションを形成



OAI-ORE R4L from the view point of OAI-ORE

The Plan



R4L Repository for
the Laboratory



Coles, S. and Carr, L. (2008) *Experiences with Repositories & Blogs in Laboratories*. In: Third International Conference on Open Repositories 2008, 1–4 April 2008, Southampton, United Kingdom.

Topics

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- ▶ SWORD
- ▶ OAI-ORE
- ▶ Federation



Federation

Item matches "federation" - OR08 Publications - Windows Internet Explorer
http://pubs.or08.ecs.soton.ac.uk/cgi/search/simple?q=federation&_action_search=Search&_order=bytitle&basic_src=

ファイル(F) 編集(E) 表示(V) オ 気に入(A) ツール(T) ヘルプ(H)

Item matches "federation" - OR08 Publicati...

Login | Create Account

Item matches "federation"

Displaying results 1 to 12 of 12.

Refine search | New search

Order the results: by year (most recent first) Reorder

Export 12 results as ASCII Citation Export Atom RSS 1.0 RSS 2.0

Agnew, G. (2008) *Repositories and Digital Rights: An Overview of the Landscape and an Action Plan*. In: Third International Conference on Open Repositories 2008, 14 April 2008, Southampton, United Kingdom.

Aschenbrenner, A., Blanke, T., Hedges, M. and Schlichtenberg, F. (2008) *(repository ≠ e-Infrastructure)?!* In: Third International Conference on Open Repositories 2008, 14 April 2008, Southampton, United Kingdom.

Burton, A. and Blackall, C. (2008) *The Key Role of Registries and Registry Standards in the Transition to a Federated Network of Repositories*. In: Third International Conference on Open Repositories 2008, 14 April 2008, Southampton, United Kingdom.

Coles, S. and Carr, L. (2008) *Experiences with Repositories & Blogs in Laboratories*. In: Third International Conference on Open Repositories 2008, 14 April 2008, Southampton, United Kingdom.

Coles, S. and Lyon, L. (2008) *The eCrystals Federation*. In: Third International Conference on Open Repositories 2008, 14 April 2008, Southampton, United Kingdom.

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SUN PASIG Spring Meeting May 27-29, 2008

JISC / CNI Transforming the User Experience July 10-11, 2008

MICROSOFT E-SCIENCE WORKSHOP Dec 7-9, 2008

OR2009 Welcome to Atlanta, Georgia May 18-21, 2009

Favourite OR08 Downloads in April 2008:

- Institutional Repository Checklist
- Rich Taos: Cross-Repository Browsing
- Repositories and Digital Rights: An Overview of the Landscape and an Action Plan
- SWORD: simple web service offering repository deposit
- Repositories, Web 2.0 and scholarly practice
- Enhancing Institutional Repositories with OpenID and Connotea
- Repository Case Histories

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インターネット | 保護モード: 有効 100%

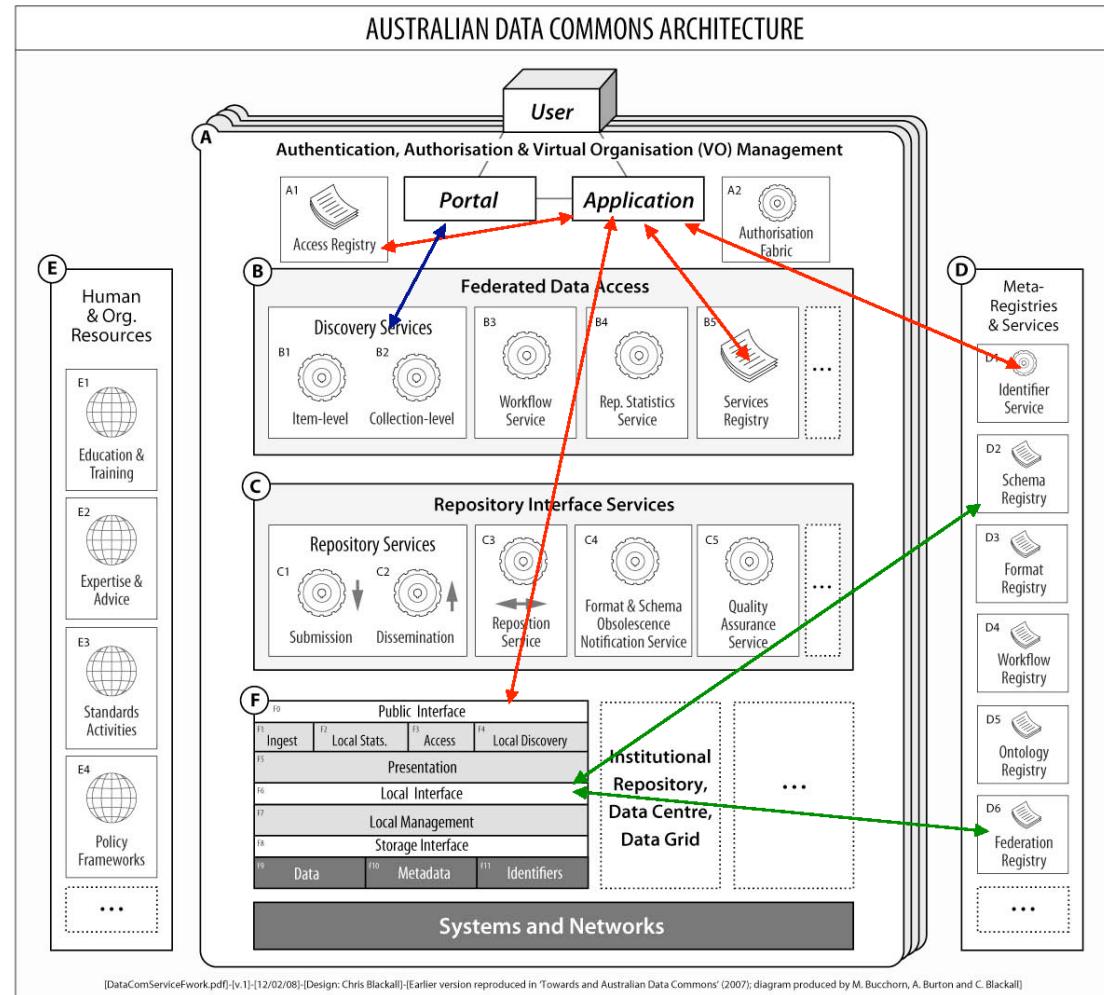
Federated Networks of Repositories

- ▶ “Towards an Australian Data Commons” (2007)
 - ▶ Australian Access Federation (AAF)
 - ▶ Australian National Data Service (ANDS)
 - ▶ Australian Research Collaboration Services (ARCS)
 - ▶ National Computing Infrastructure Services (NCIS)
- ▶ DRIVER (European Union)
- ▶ JISC Information Environment (UK)
 - ▶ Shared Infrastructure Services (SIS) Projects (2008)
 - ▶ Information Environment Services Registry (IESR)
- ▶ Datanet Projects
(National Science Foundation–USA 2008)
- ▶ Global Registries Initiative
(APSR, IESR, OCKHAM and others)

▶ Burton, A. and Blackall, C. (2008) *The Key Role of Registries and Registry Standards in the Transition to a Federated Network of Repositories*. In: Third International Conference on Open Repositories 2008, 1–4 April 2008, Southampton, UK.

Federation

“Towards an Australian Data Commons”



Federation in Japan



Federation in Japan



Overall Impression by Dr. Namiki

三回目の参加になった。一昨年はリポジトリをベースにe-Science等への対応を強調し、大学当局側へのアピールを一定程度含んだテーマが多い内容という感想を持ち、昨年はプロトコルやAPIなどの実装に関わるテーマ設定が多く、情報系とコンテンツ系の連携は当たり前のものとなっている感が強い。今年は昨年の傾向がさらに強まり、同時にコンテンツの特徴を強く意識するようになっているように思われた。単なるプロトコルやAPIの紹介という講演は少なく、実際に存在する膨大なコンテンツをどのように扱うかという問題意識を強く感じ取った。

ユーザグループへはDSpaceとFedoraへ他二名と分担して参加したが、新規プロトコルやAPIの実装や設計というテーマ設定は日本のリポジトリ周辺には存在しないように考えられる。ここの部分をどうするかが問題と思う。



Overall Impression by Dr. Ikeda

全体的な感想として、単なる“Institutional”なりポジトリから、“Departmental”やリポジトリをまたがったものなど様々な粒度のリポジトリがあったように思います。また、このような使い方に Fedora はよさそうだ、とも思いました。一方、Web2.0 的なアプローチや SNS などがあり、利用者や利用者が作ったメディア(CGM)についての取組もありましたが、まだ始まったばかりという印象を受けました。ただ、これらの取組に関するも、まずは楽しそうなこと、面白そうなことを作つてみようという姿勢が見られました。これは日本ではあまり見られない気がします。

技術としては Atom が目立ちました。また、“workflow”や “lab practice” という言葉が印象にのこりました。これは、「実際にある様々な研究者の研究スタイルにリポジトリを組み込む」ということだと理解しました。



Overall Impression by Dr. Yamaji

サウサンプトンでの開催という理由もあってか，システム開発に関する発表，データリポジトリに関する発表などが多く，研究者や情報系の視点からの学会であったことが印象に残っています(日本ではなかなかこうはいかない). SWORDやOREの機能的役割からもわかるように，現在，欧米の興味はリポジトリの連携をどのように確立するか，という部分にあるように感じました. これは当然，リポジトリの意義や持続性にも繋がってくると思います.

現在の日本のリポジトリは，図書館員による機関リポジトリであり，多様性に欠けているところがあります. 現状のモデルを尊重しながら，どのような将来の展開があり得るか，ということを考えるのは非常に面白そうです.

