

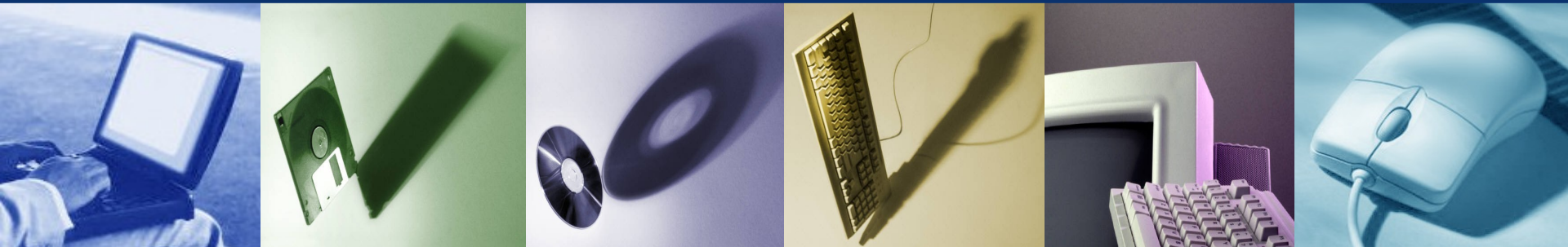


# ORI-OAI Project

## Referencing and Indexing Tool for a Network of OAI Portals

**EUNIS 2007**

Grenoble, Thursday, June 28<sup>th</sup>





**Introduction**

**Functional Outline**

**Implementation**

**Conclusions**

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# What is ORI-OAI?



- Project acronym : **ORI-OAI** – **O**util de **R**éférencement et d'**I**ndexation – **O**pen **A**rchive **I**nitiative
- ORI-OAI project is ***free software, open source***
- **ORI-OAI main issues :**
  - manage all digital resources produced by an university,
  - share them with other universities,
  - promote them through high quality indexing,
  - make them accessible online, publicly or according to restrictive rights

- Exploding institutional digital documents inside universities
  - Need for coordinated management linked to Information System in order to ensure durable access
- Development of Thematic and Regional Digital Universities (resources for federations of universities)
  - Need to share these resources, in a interoperable way
  - Access from internal portals of universities or from web sites of digital universities
- Several actors are implied in document production
  - Teachers, researchers, students, documentalists

## Universities



## UNT (thematic digital universities)



Sponsored by MENESR





# Functional Outline



# ORI-OAI – functional outline

## **Search**

metadata, full-text

## **Diffusion**

according to copyrights, licenses and access rights

## **Web publishing**

versionning, editorial workflows, plurality of metadata schemas

## **Archiving**

former versions of documents always available for authors

## **Sharing**

OAI protocole for metadata harvesting, federated authentication

## **Referencing**

high quality indexing adapted to each document type



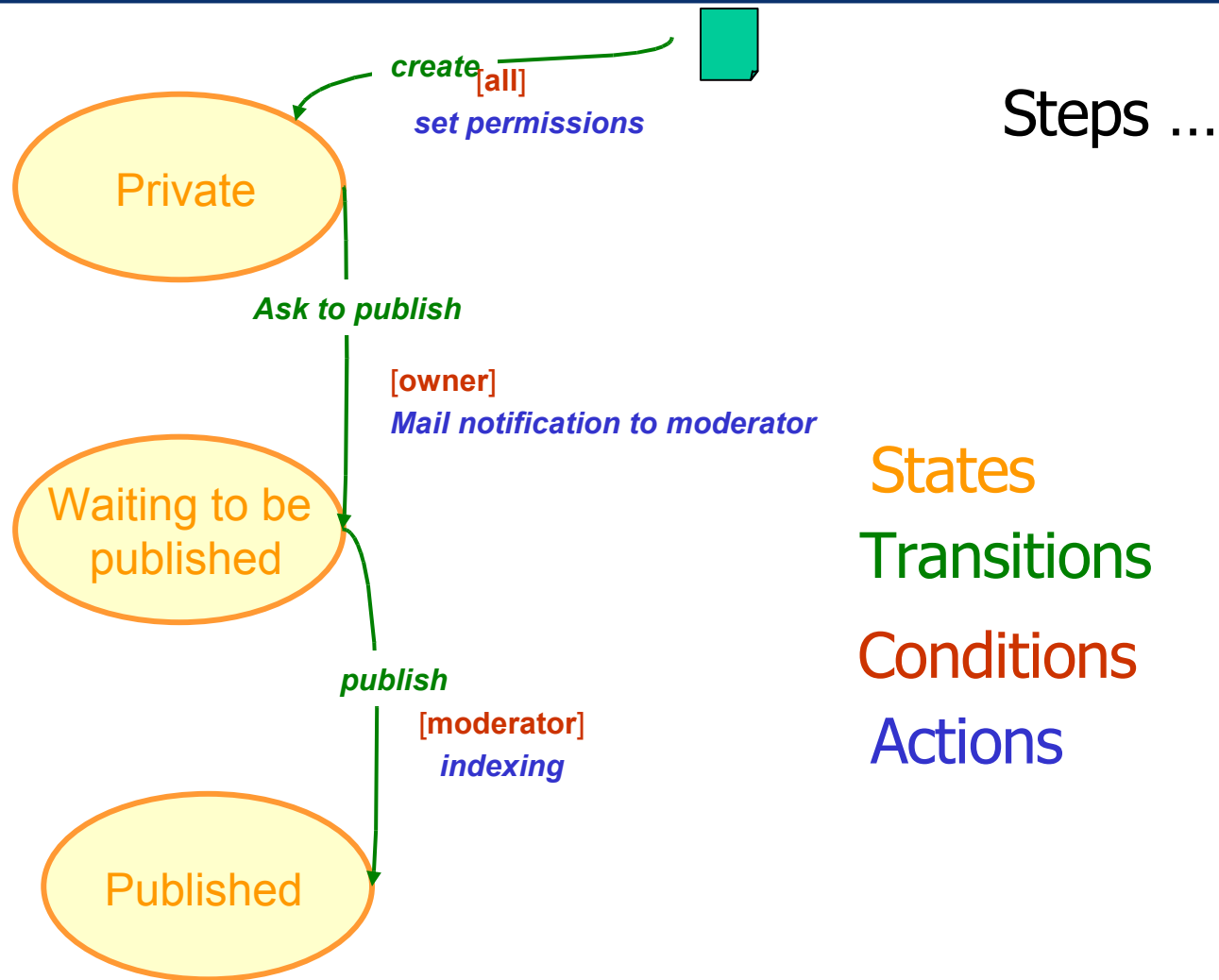


ORI-OAI project

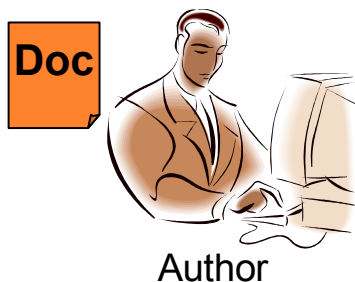
***Principle of deposit***



# Principles of ori-oai-workflow



# Simple workflow (*author step*)



**Workflow step for**

Document

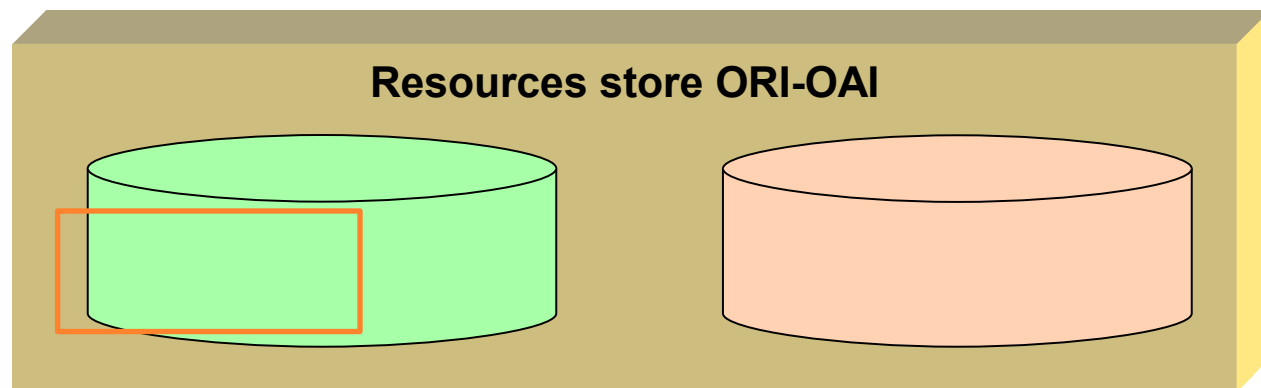
Title

Description

Author

Metadata

To be  
published





# Simple workflow (*documentalist step*)

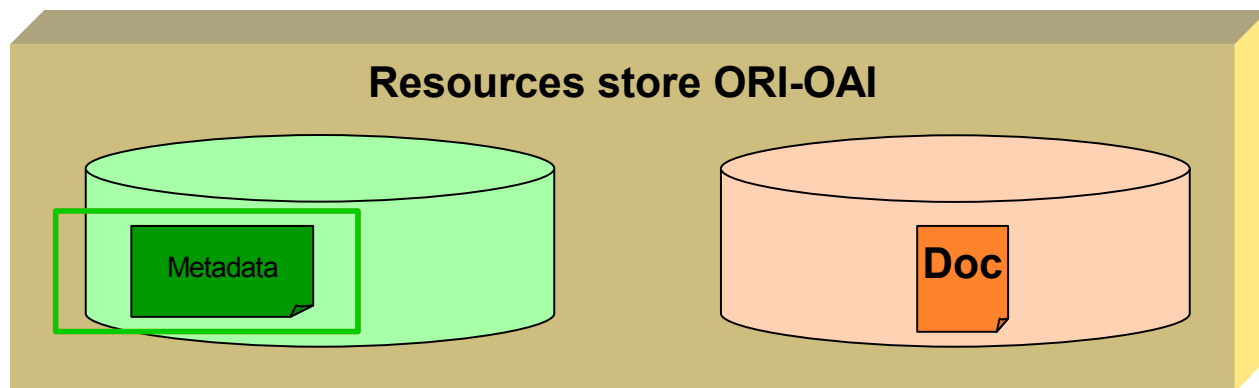


Librarian

## Workflow step for documentalist

A screenshot of a web browser window showing a form for documentalist workflow. The browser's address bar shows the URL "http://caribou.univ-valenciennes.fr:8080/springmvc-search/". The form has four input fields: "Document", "Title", "Description", and "Author". Below the fields are two buttons: "Publish" (green) and "Reject" (red). The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", and "Outils". The toolbar includes "Précédente", "Rechercher", and "Favoris".

Published



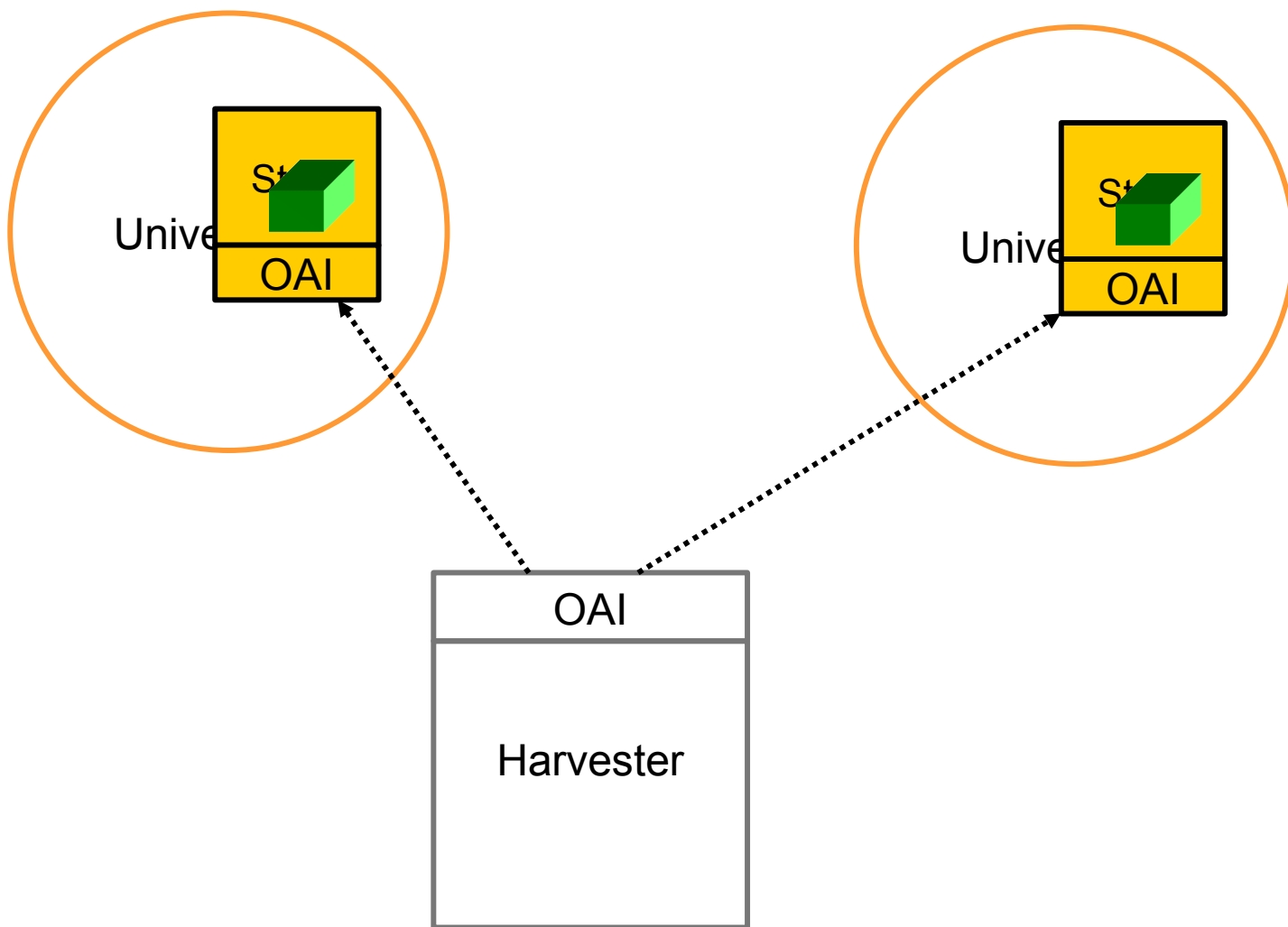


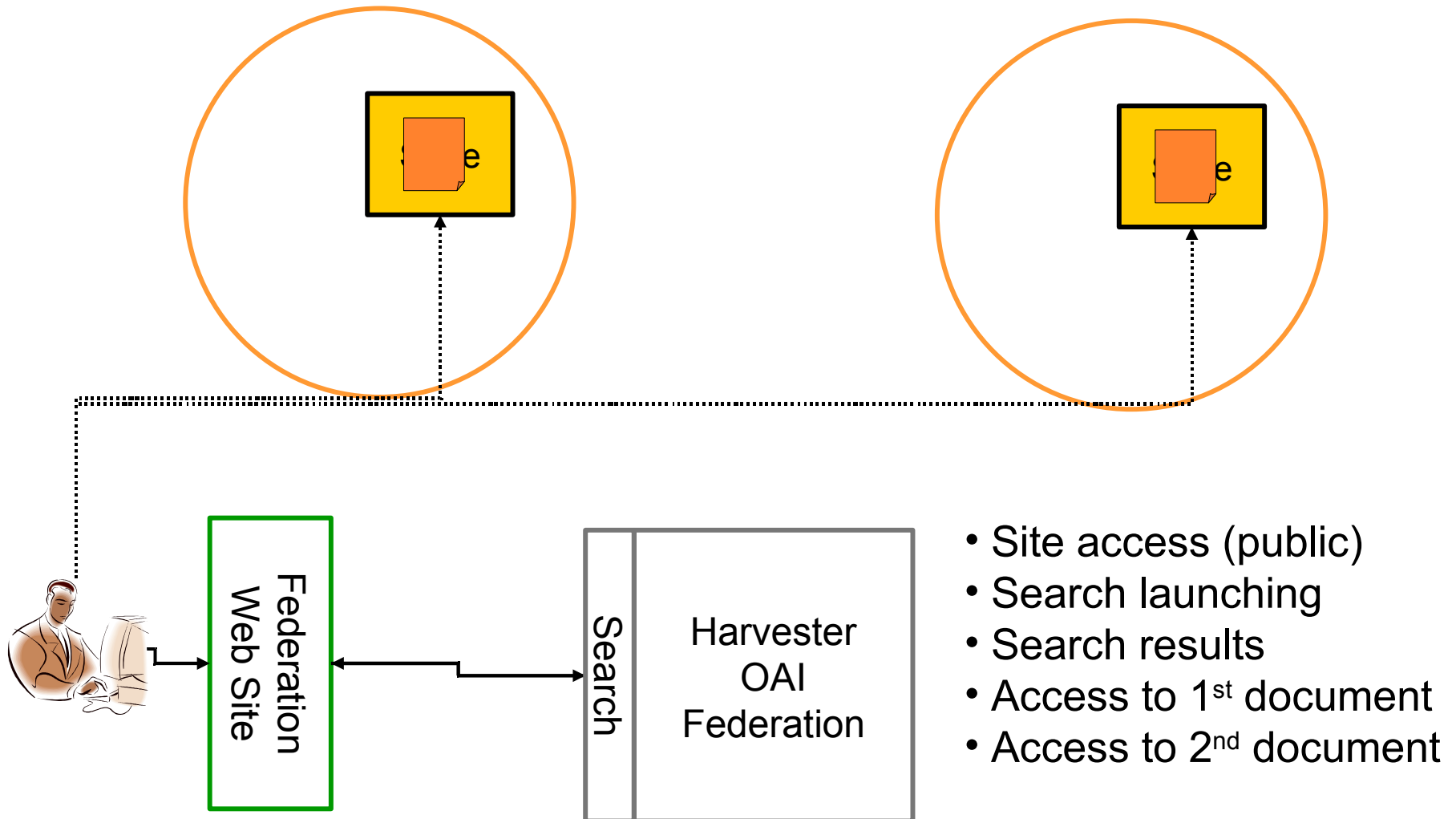
ORI-OAI project

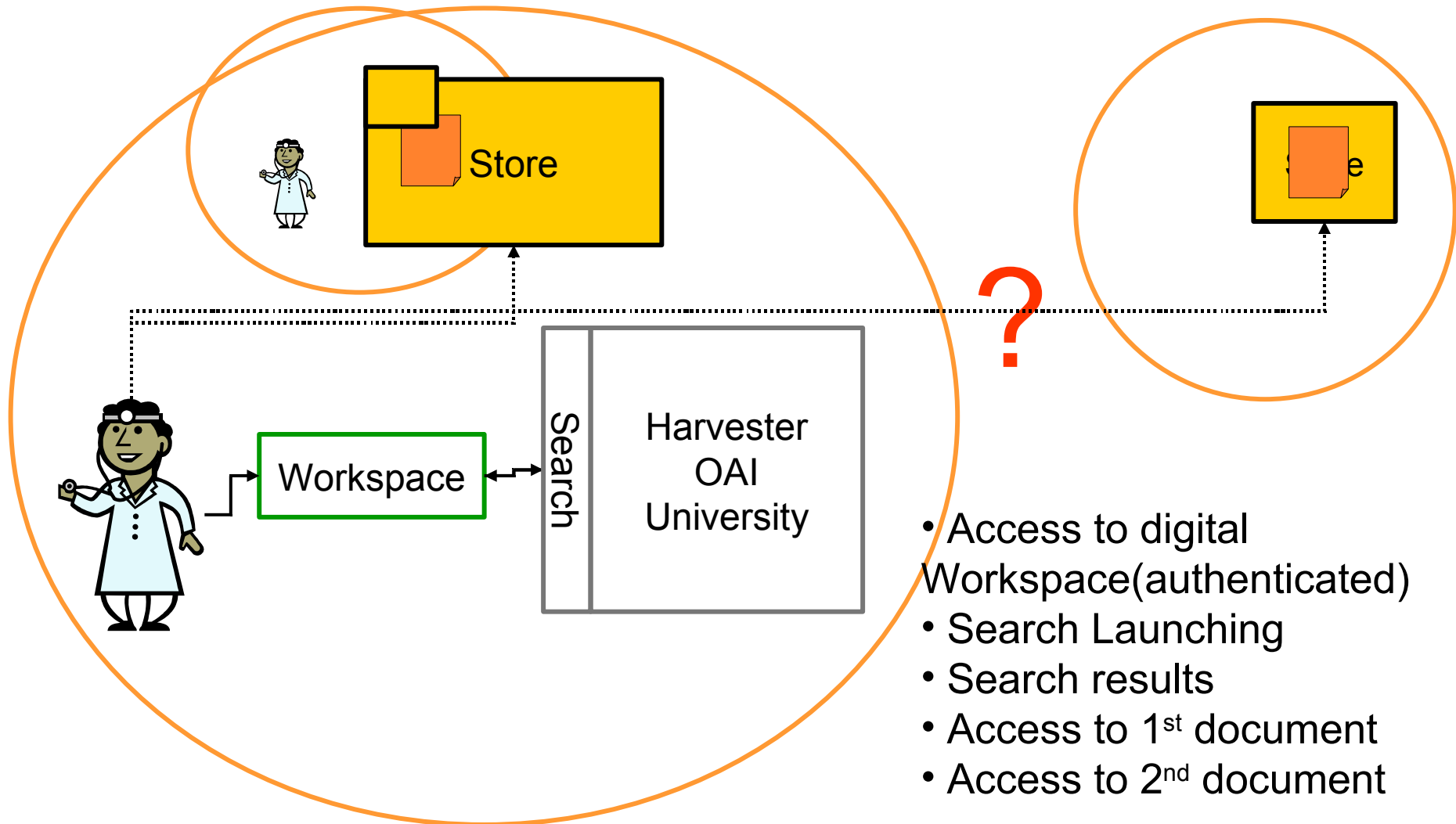
***Principle of sharing***



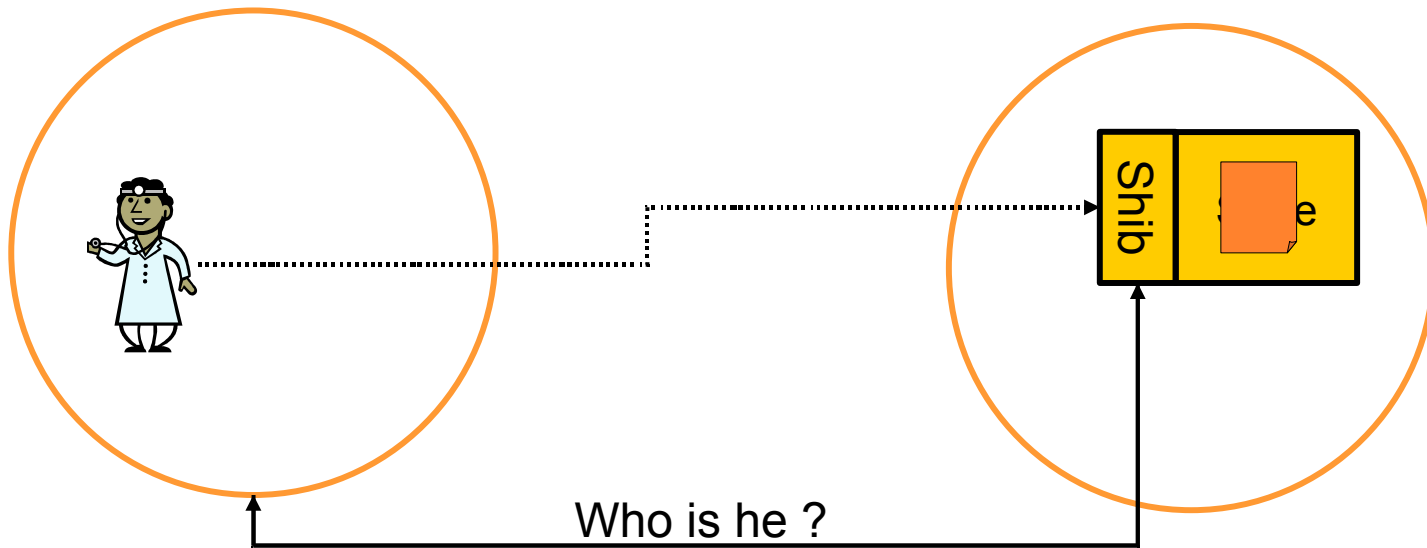
# Open Archive Initiative (OAI)





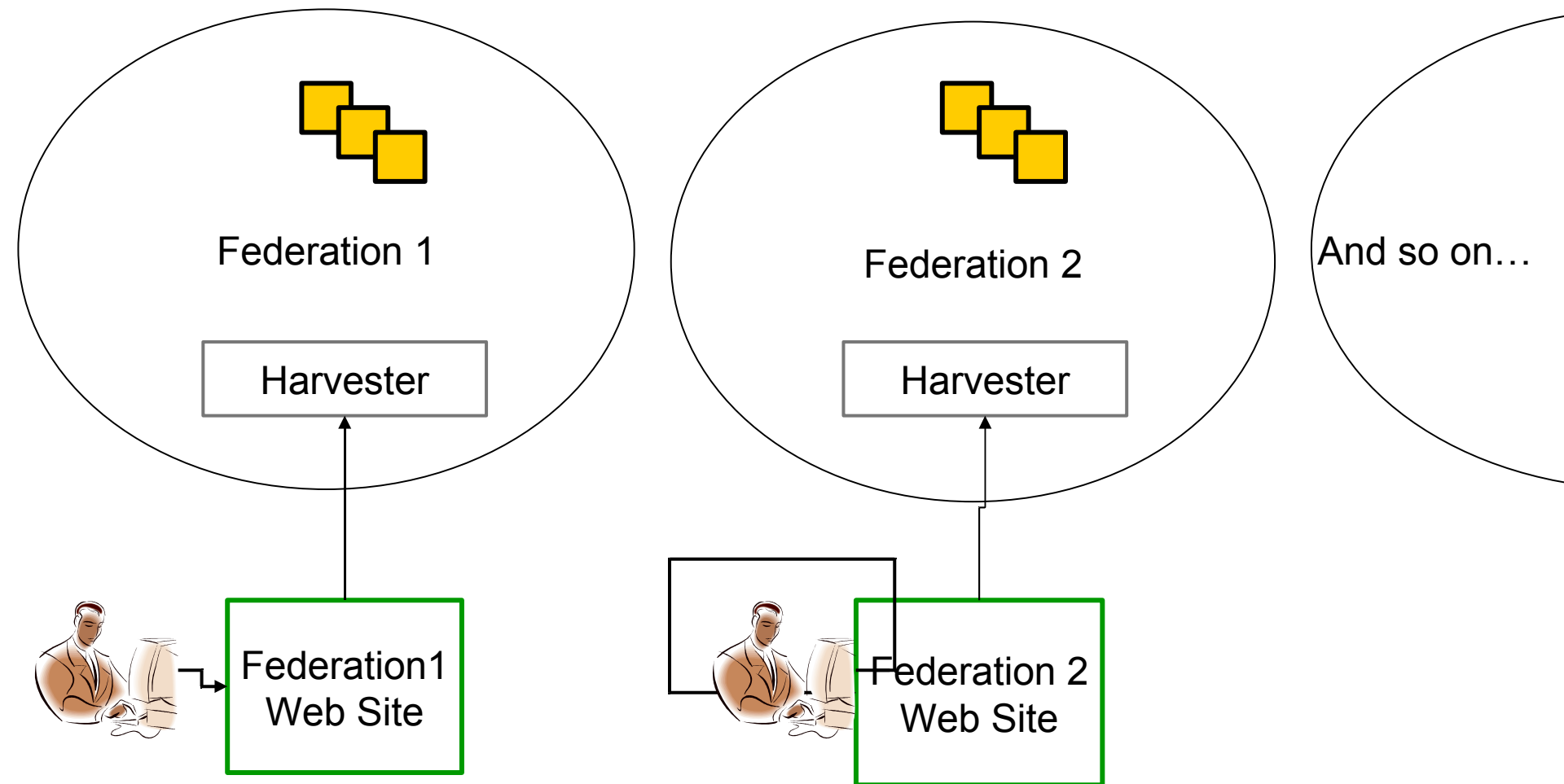


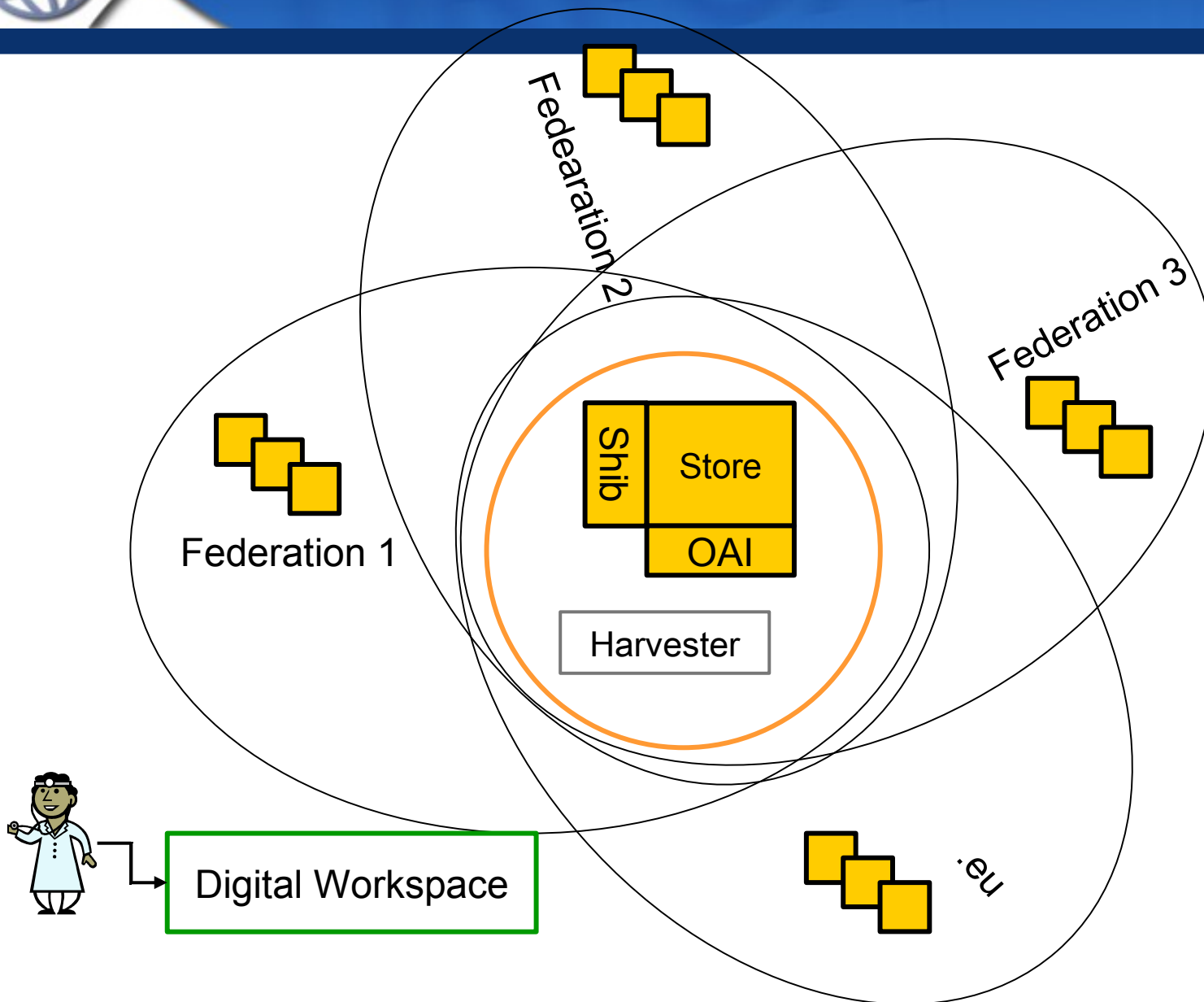




A medical student of 2<sup>nd</sup> year

- Try to access document
- Query to university « identity provider »
- Response to university « service provider »
- Access to document

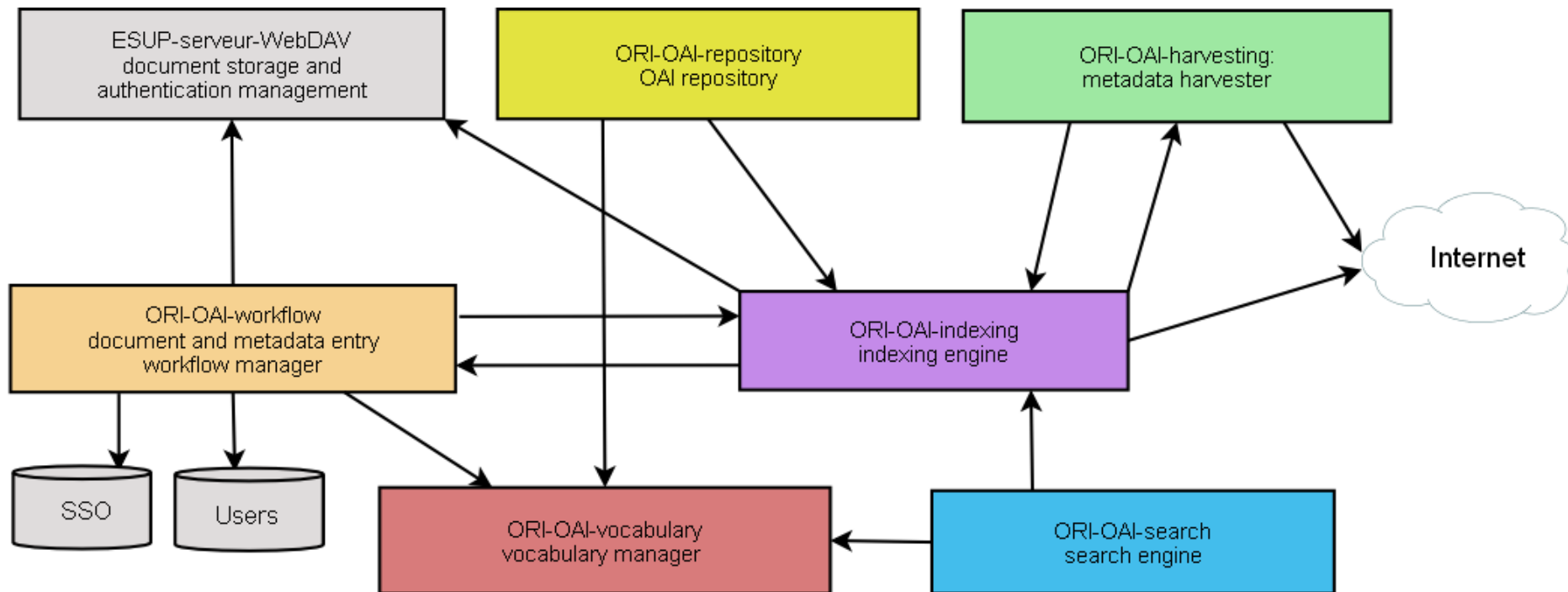






# Implementation

# The general architecture





- Java J2EE
- Spring : Inversion of Control, Dependency injection
- Hibernate : smart binding to databases
- XFire : simplified and efficient SOAP Web services
- AOP/AspectJ : non-invasive API for transactions and security management
- Lucene and LIUS : powerful indexing for XML , plain-text and binaries input
- OAICat : popular Java implementation for OAI-PMH
- OSWorkflow : greatly configurable, scalable workflow framework
- Orbeon / OPS : XForms based, powerful framework for Web forms
- I18N : localization



Conclusions, linked projects, next steps ...



- Fully pre-set editorial chain for LOM and Dublin Core
- Highly configurable system for any kind of schemas and formats
- Widespread interoperability through SOAP Web services and OAI-PMH
- Wide-open plugability for educational systems, existing and future, national or institutional
- Non-restrictive federative network for regional, national or international scope





- Project's site

- <http://www.ori-oai.org>

- Sources open access

- [http://sourcesup.cru.fr/softwaremap/trove\\_list.php?form\\_cat=318](http://sourcesup.cru.fr/softwaremap/trove_list.php?form_cat=318)

- Contacts

- Diffusion list (in french) **ori-oai-utilisateurs**  
<http://listes.univ-rennes1.fr/www/subscribe/ori-oai-utilisateurs>



# Screenshot 1 : advanced search

[Home](#)[Documents](#)[Pédagogie](#)[Formations](#)[Multi-formats](#)[News](#)

Simple search:

OK

[Documents](#) > [Advanced search](#)[News](#)[Advanced search](#)[Repositories OAI](#)

Search for Dublin Core resources

## Simple search

Title, description, keywords... 

## Repository



## Documentary criteria

Title Description Keywords Author Publisher Language DD-MM-YYYY  
format.  
Example:  
23-05-2006

Creation date

From To Document format 

Note: to search a complete expression, use quotes. Example: "higher school"

Rechercher

Effacer



# Screenshot 2 : search results

[News](#) [Advanced search](#) [Thematic search](#) [Search by authors](#) [Search by keywords](#)

Search for LOM resources

[Modifier la recherche](#) [Nouvelle recherche](#)

5 has been found. The results 1 to 5

|< << Back 1 Next >> >|

10 documents per page

Sort : **Relevance** **Date** **Publisher** **Format** **Author** **Title**

**MI - Variable complexe et Laplace Cours Semaine 2** / INP Toulouse / 22-05-2006 / Cours ENSEEIHT  
TOURNERET Jean-Yves

[See the summary](#) | [Access to resource](#)

**MI - Variable complexe et Laplace Cours Semaine 3** / INP Toulouse / 22-05-2006 / Cours ENSEEIHT  
TOURNERET Jean-Yves

[See the summary](#) | [Access to resource](#)

**MI - Variable complexe et Laplace Examen 2003** / INP Toulouse / 22-05-2006 / Cours ENSEEIHT  
TOURNERET Jean-Yves

[See the summary](#) | [Access to resource](#)

**Cours Polytech'Lille** / Polytech'Lille / 01-04-2004 / UNIT  
Collectif d'enseignants-chercheurs de l'USTL, de Polytech'Lille et de l'IEMN.

[See the summary](#) | [Access to resource](#)

**Automatique : systèmes asservis linéaires échantillonnés** / INSA Lyon / 01-01-2003 / UNIT  
Jutard Alain, Betemps Maurice

[See the summary](#) | [Access to resource](#)

|< << Back 1 Next >> >|

10 documents per page



# Screenshot 3 : result record

[Retour à la recherche](#)

[Version imprimable](#) 

## Cours Polytech'Lille

COLLECTIF D'ENSEIGNANTS-CHERCHEURS DE L'USTL, DE POLYTECH'LILLE ET DE L'IEMN., Polytech'Lille. 01-04-2004, [English (US)]

URL d'accès: <http://www.polytech-lille.fr/polytech/page.php?rubrique=ressources>

Version: 1

**PEDAGOGIQUE**

Niveau	higher education
Type de document	collection
Granularité	module
Difficulté	easy
Langue de l'apprenant	French

### DOCUMENTAIRE

**Mots-clés** [Informatique](#), [SYSTEME ASSERVI CONTINU](#), [Electronique Numérique](#), [Electronique- Circuits intégrés](#), [FONCTION DE TRANSFERT DISCRETE](#), [AUTOMATIQUE](#), [COMPENSATION DES SYSTEMES](#), [Architecture des ordinateurs](#), [TRANSFORMEE DE LAPLACE](#), [CORRECTEUR DES SYSTEMES](#), [REGULATEUR UNIVERSEL PID](#), [COMMANDE NUMERIQUE](#), [SCILAB](#), [COMMANDE AUTOMATIQUE](#), [COMMANDE DES SYSTEMES](#), [STABILITE DES SYSTEMES DE COMMANDE](#)

**Résumé** Les cours en électronique, automatique, algorithmique et informatique produits par l'Atelier de Recherche Pédagogique de Polytech'Lille. Tous ces cours sont libres de droits et gratuits pour un usage personnel. Aucune utilisation commerciale ne peut en être faite.

**ID** <https://www.unit.eu/Members/fhoogstoel/learningfolder/learninglink.2005-05-17.4730397484>

**REPOSITORY UNIT**

**MD\_FORMAT** LOM

[Retour à la recherche](#)

[Version imprimable](#) 



# Screenshot 3 : workflow, editing LOM record

Français ▾

Annuler Sauvegarder

Vérifier les erreurs du formulaire Détails des erreurs

Général Cycle de Vie Méta-métadonnées Technique Pédagogique Droits Relation Commentaire Classification

Général

Identifiant

**Catalogue**

URI ▾ ? Nom du système d'enregistrement où la ressource est référencée.

**Entrée**

https://www.unit-c.fr/Members/mjoly/learnir ? Valeur de l'identifiant.

Ajout d'un identifiant

Titre

**Titre**

Mécanique des fluides ? Le nom donné à la ressource pédagogique décrite. français ▾

Ajout d'une traduction

Langue

**Langue**

français ▾ ? Une langue du contenu intellectuel de la ressource.

Ajout d'une langue

Description

**Description**

? Une description du contenu de la ressource pédagogique décrite. français ▾

Ajout d'une traduction

Ajout d'une description

Mot-clé libre

**Mot-clé libre**

SCIENCES PHYSIQUES ? Mots-clés libres relatifs au contenu de la ressource. français ▾

Ajout d'une traduction

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To modify this work



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