Introduction à

INVENIO

CERN Document Server team

CERN-UNESCO School on Digital Libraries, Dakar, November 2011

Histoire

1954 CERN (European Center for Nuclear Research) Initialement 12 états membres. (20 + 6 "observateurs" aujourd'hui; ~10'000 personnes; > 500 universités)

1989 Tim Berners-Lee invente le Web au CERN.

1991 SPIRES (SLAC) première base de donnée disponible sur le Web.

1991 arXiv archive pour "preprints" de physique

1993 CERN Preprint Server sur le Web: archive institutionnelle

1996 CERN Library Server (weblib): ajout des livres, périodiques et autres

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1954 CERN (European Center for Nuclear Research)

> *"The Organization shall provide for collaboration among European States in nuclear research of a pure scientific and fundamental character (...). The Organization shall have no concern with work for military requirements and the results of its experimental and theoretical work shall be published or otherwise made generally available".*
>
> CERN Convention, Article II.1, 1954

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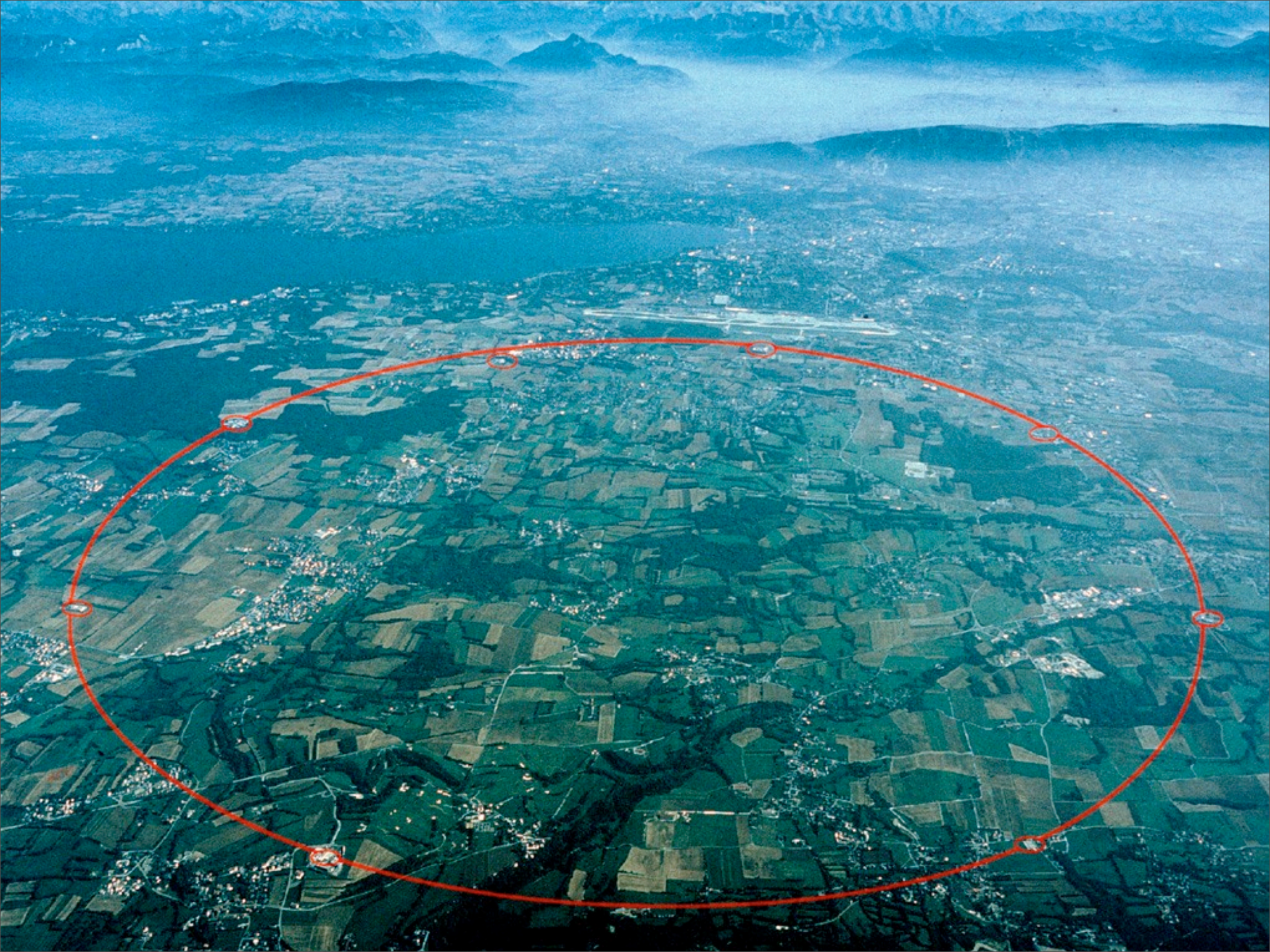
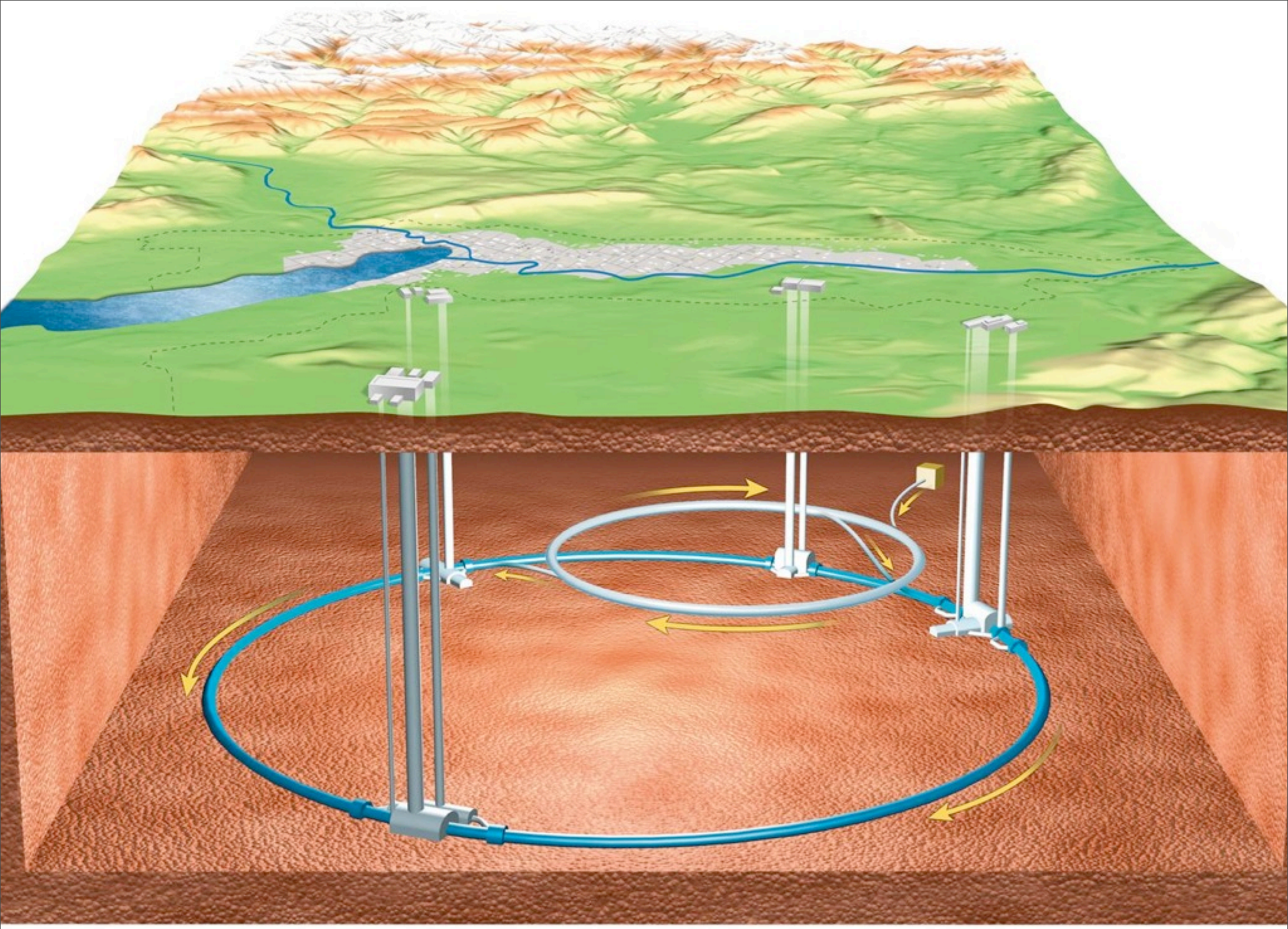
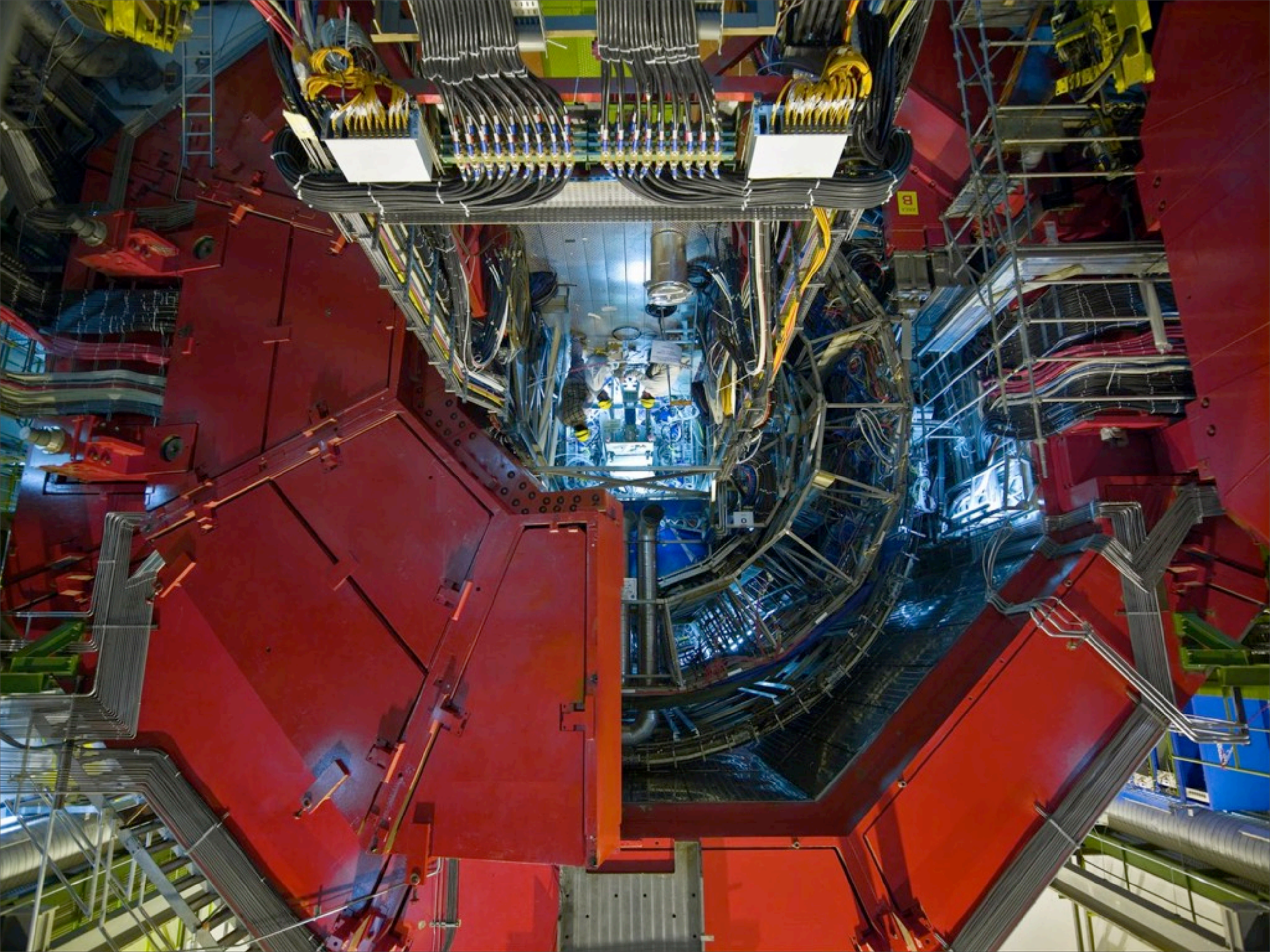
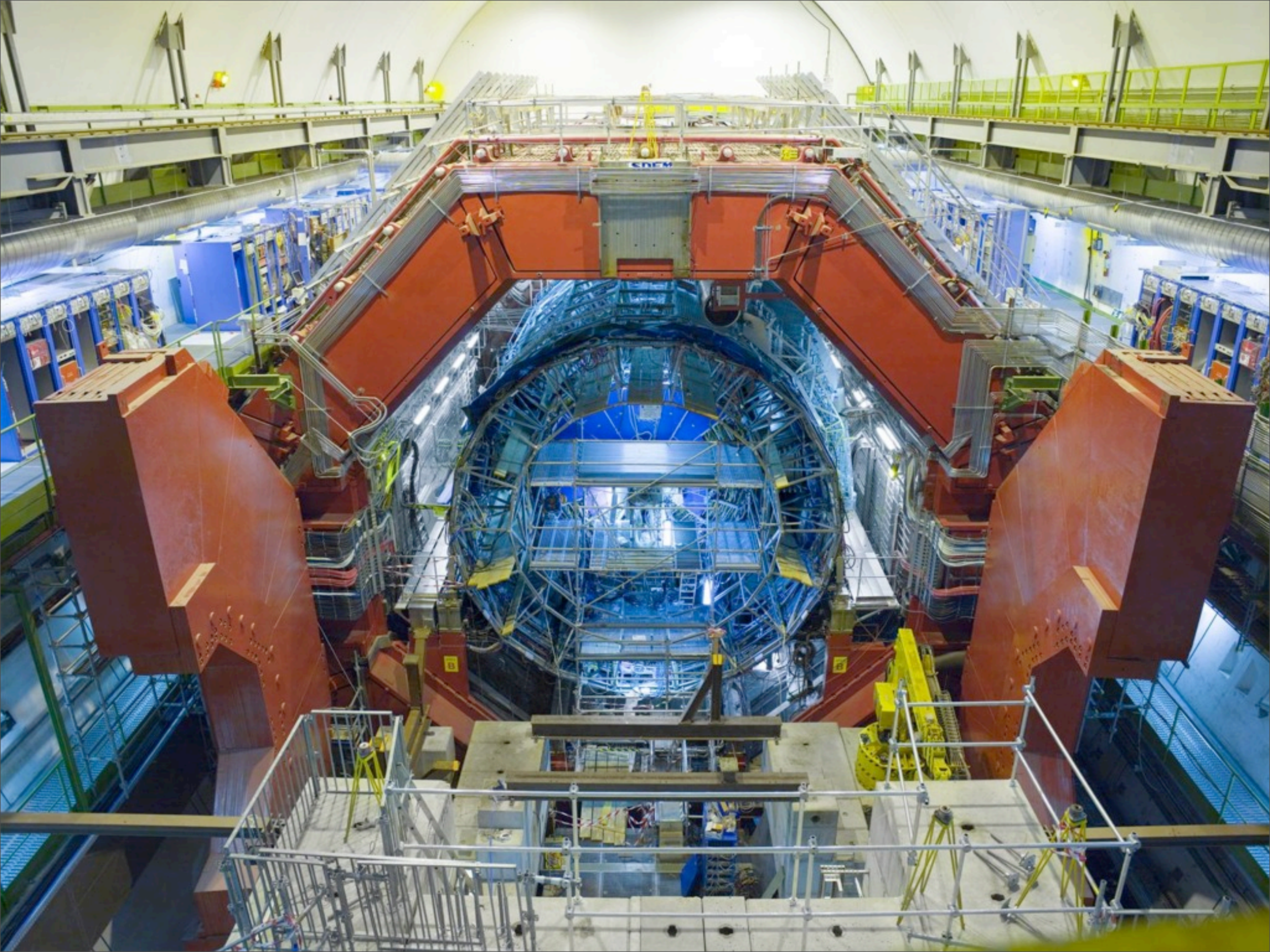
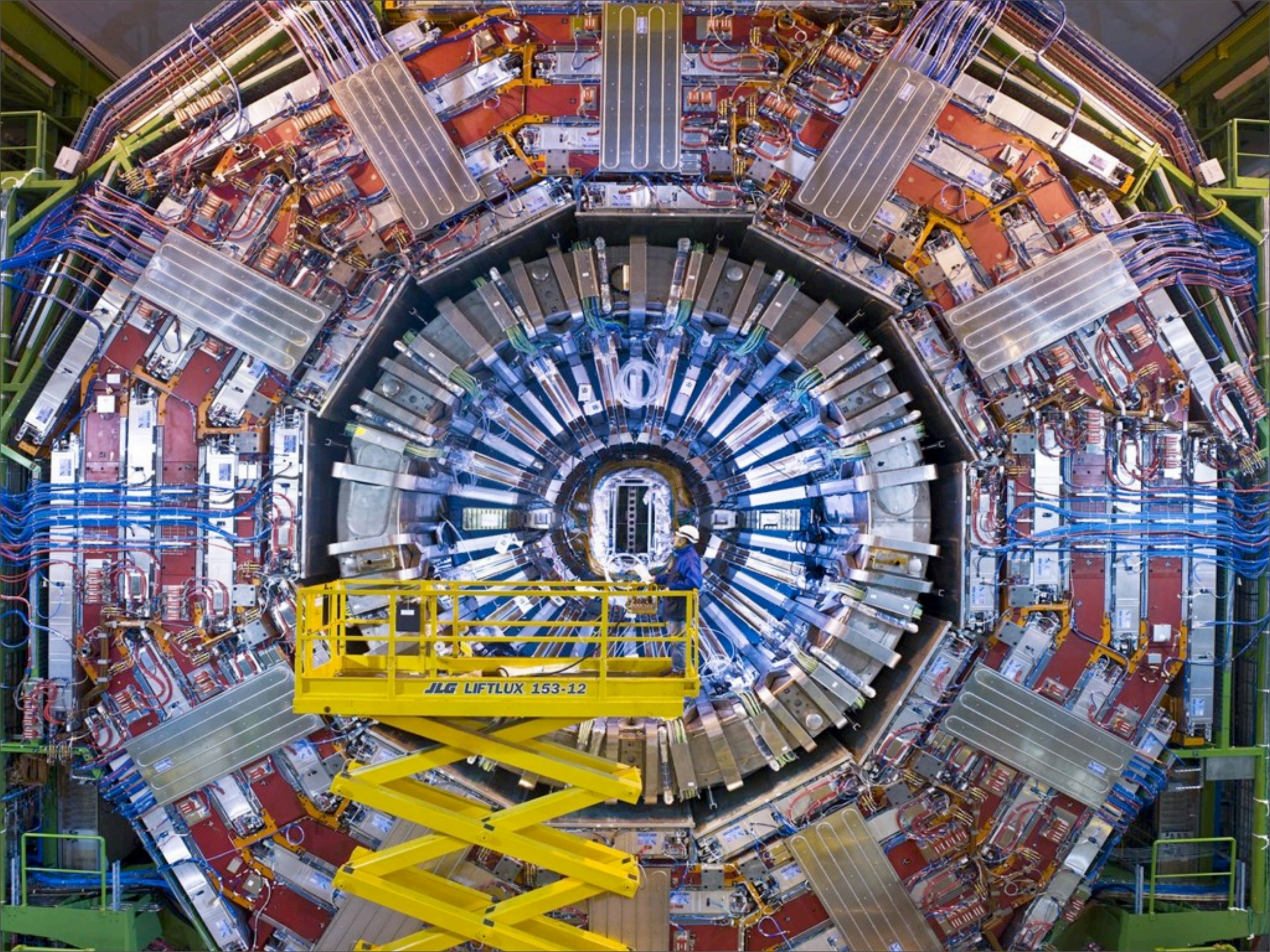


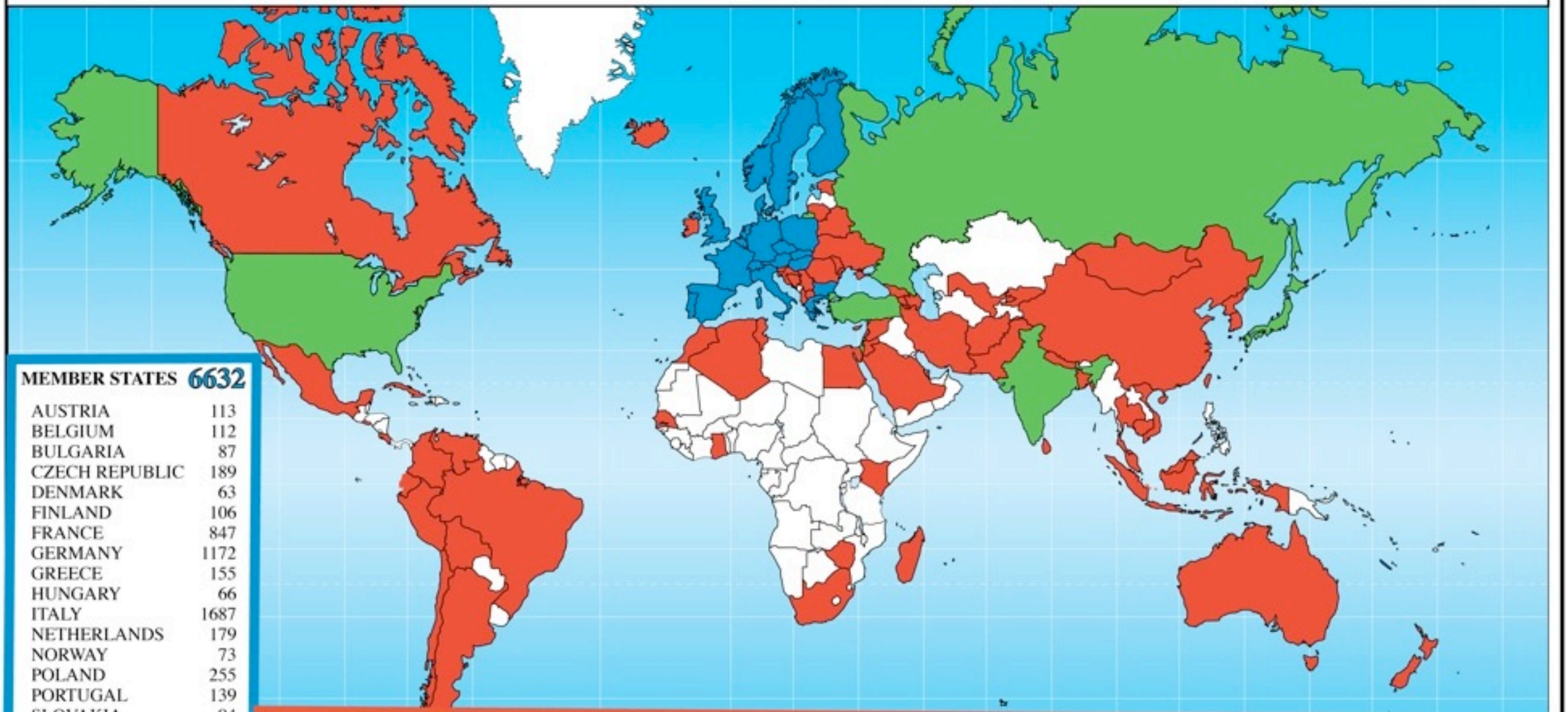







JLG LIFTLUX 153-12

Distribution of All CERN Users by Nationality on 27 June 2011



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AUSTRIA	113
BELGIUM	112
BULGARIA	87
CZECH REPUBLIC	189
DENMARK	63
FINLAND	106
FRANCE	847
GERMANY	1172
GREECE	155
HUNGARY	66
ITALY	1687
NETHERLANDS	179
NORWAY	73
POLAND	255
PORTUGAL	139
SLOVAKIA	94
SPAIN	358
SWEDEN	79
SWITZERLAND	216
UNITED KINGDOM	642

OBSERVER STATES	2537
INDIA	192
ISRAEL	61
JAPAN	223
RUSSIA	955
TURKEY	106
USA	1000

OTHERS	1364
AFGHANISTAN	1
ALBANIA	3
ALGERIA	12
ARGENTINA	13
ARMENIA	22
AUSTRALIA	20
AZERBAIJAN	6
BANGLADESH	2
BELARUS	36
BOLIVIA	2
BOSNIA AND HERZEGOVINA	1
BRAZIL	83
CAMBODIA	1
CANADA	143
CHILE	3
CHINA	232
CHINA (TAIPEI)	42
COLOMBIA	31
COSTA RICA	2
CROATIA	22
CUBA	5
CYPRUS	14
ECUADOR	2
EGYPT	9
EL SALVADOR	1
ESTONIA	15
GEORGIA	32
GHANA	1
GIBRALTAR	1
HONG KONG	1
ICELAND	3
INDONESIA	2
IRAN	23
IRELAND	25
JORDAN	1
KENYA	1
KOREA, D.P.R.	3
KOREA REP.	103
KYRGYZSTAN	1
LEBANON	10
LITHUANIA	17
LUXEMBOURG	4
MADAGASCAR	4
MALAYSIA	4
MALTA	2
MEXICO	54
MOLDOVA	1
MONGOLIA	1
MOROCCO	15
NEPAL	2
NEW ZEALAND	9
PAKISTAN	39
PALESTINE (O.T.).	1
PERU	4
QATAR	1
ROMANIA	106
SAN MARINO	1
SAUDI ARABIA	3
SENEGAL	1
SERBIA	38
SINGAPORE	1
SLOVENIA	32
SOUTH AFRICA	11
SRI LANKA	5
SYRIA	2
THAILAND	3
F.Y.R.O.M.	2
TUNISIA	7
UKRAINE	40
UZBEKISTAN	3
VENEZUELA	11
VIET NAM	9
ZIMBABWE	1

Histoire

2000 CERN Document Server: matériel multimédia, notes internes)

2002 Première version (CDSware). Installations mondiales. Collaborations internationales.

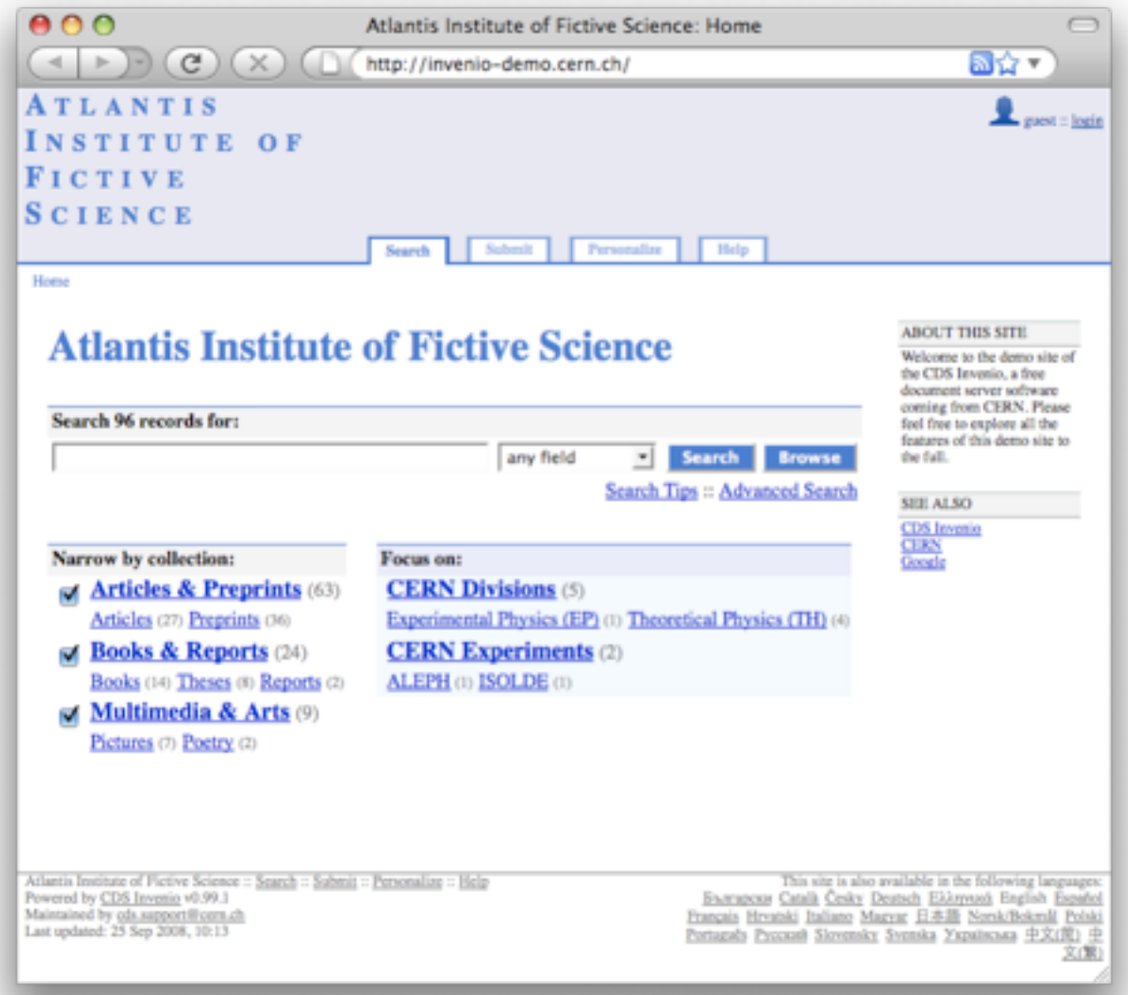
2006 Renommé "Invenio"

2007 Début collaboration avec SPIRES

2008-2011 nouvelles fonctionnalités, optimisations, changement du modèle de développement et stabilisation du code pour Invenio 1.0

Début collaboration avec NASA-ADS et ArXiv

Qu'est-ce que Invenio?



Qu'est-ce que Invenio?

User

Qu'est-ce que Invenio?

soumettre

User

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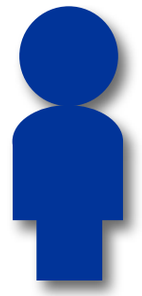
soumettre



User

chercher

Qu'est-ce que Invenio?

approver

partager

'bookmark'

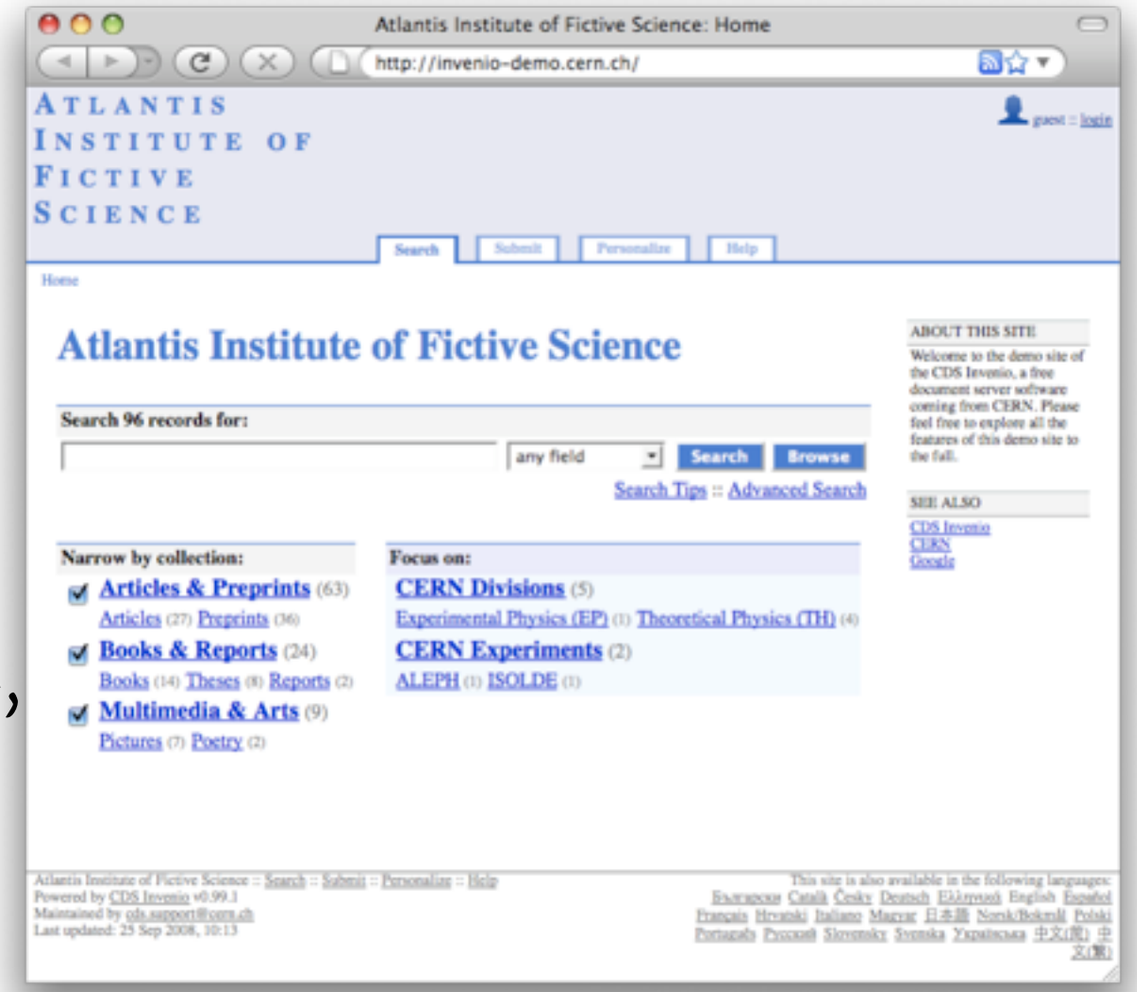
soumettre

chercher

User

commenter, noter

s'abonner



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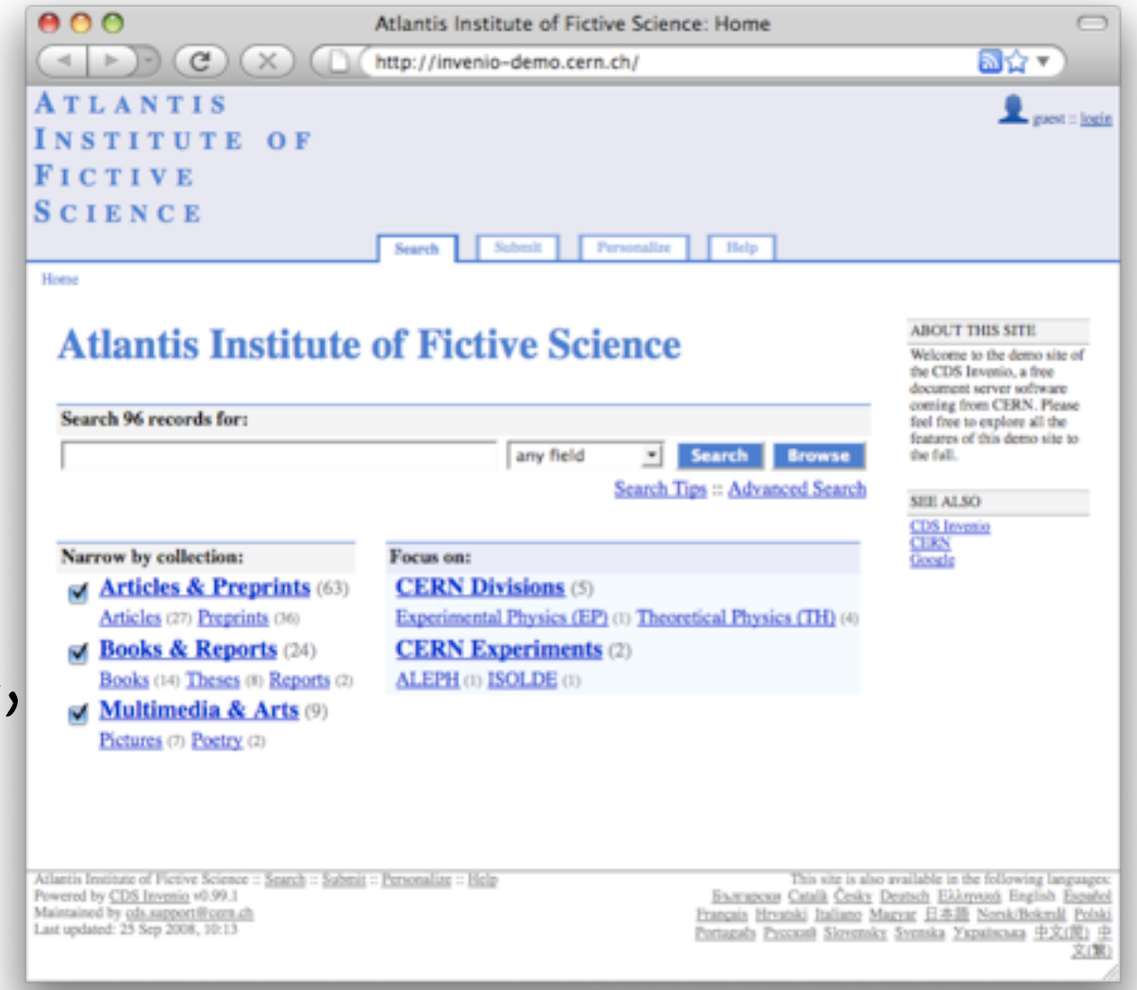
s'abonner

User

éditer

Bibliothécaire



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éditer

'importer, "harvester"

"merger"

convertir

Bibliothécaire

Qu'est-ce que Invenio?

approver

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User

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éditer

importer, "harvester"

"merger"

Bibliothécaire

convertir

monitorer

scripter

personnaliser

Admin

Qu'est-ce que Invenio?

Solution intégrée de gestion bibliothécaire numérique

Qu'est-ce que Invenio?

Téléchargement gratuit:

http://invenio-software.org/

Qu'est-ce que Invenio?

Téléchargement gratuit:

http://invenio-software.org/

Sources (Git):

http://invenio-software.org/repo

Qu'est qu'un "Record" (notice)?

001 Identifiant unique
100 Auteur
245 Titre
520 "Abstract"
980 Collection
[...]

Métadonnées + Fichiers(s)

Qu'est qu'un "Record" (notice)?

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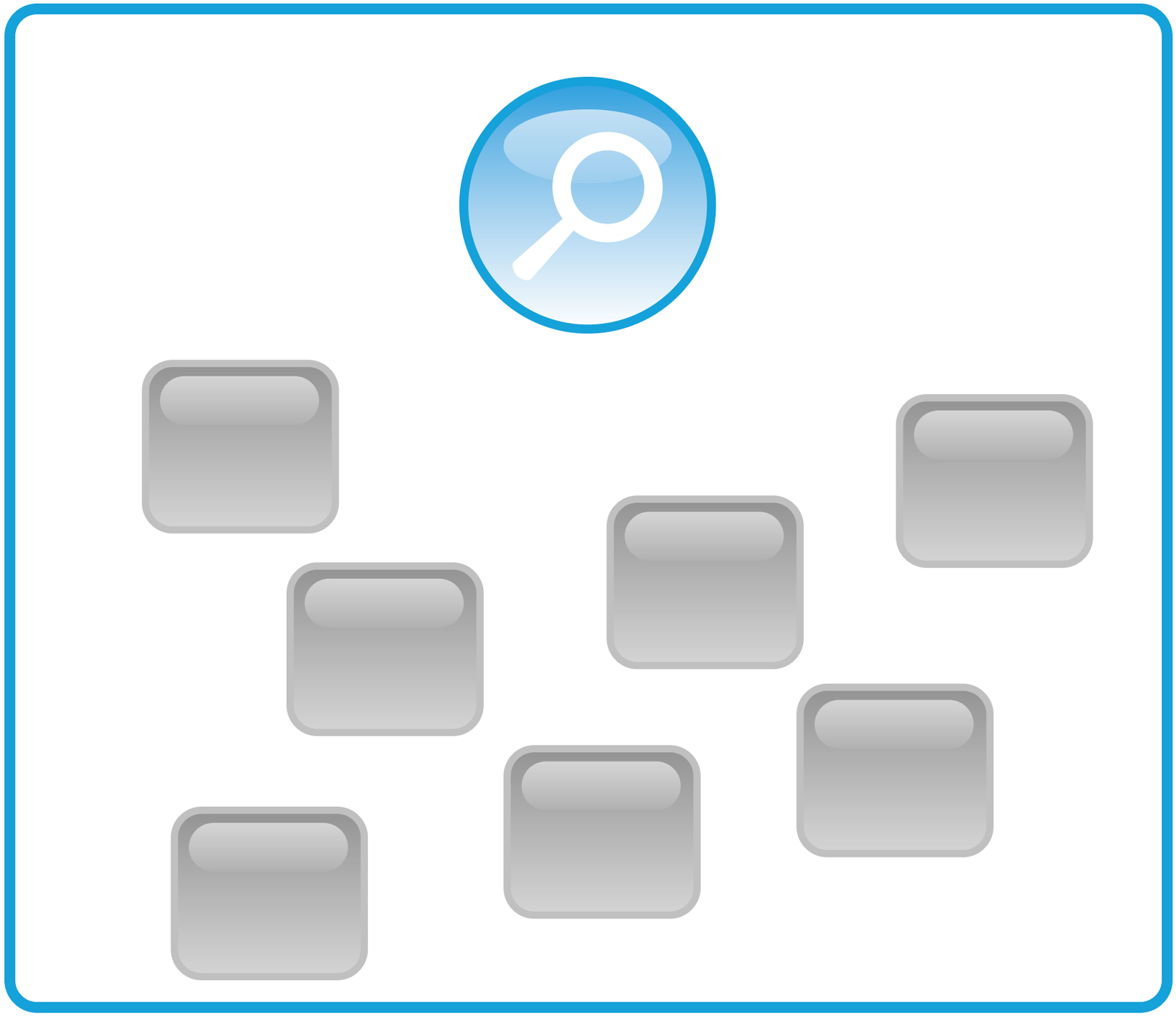
[...]
```

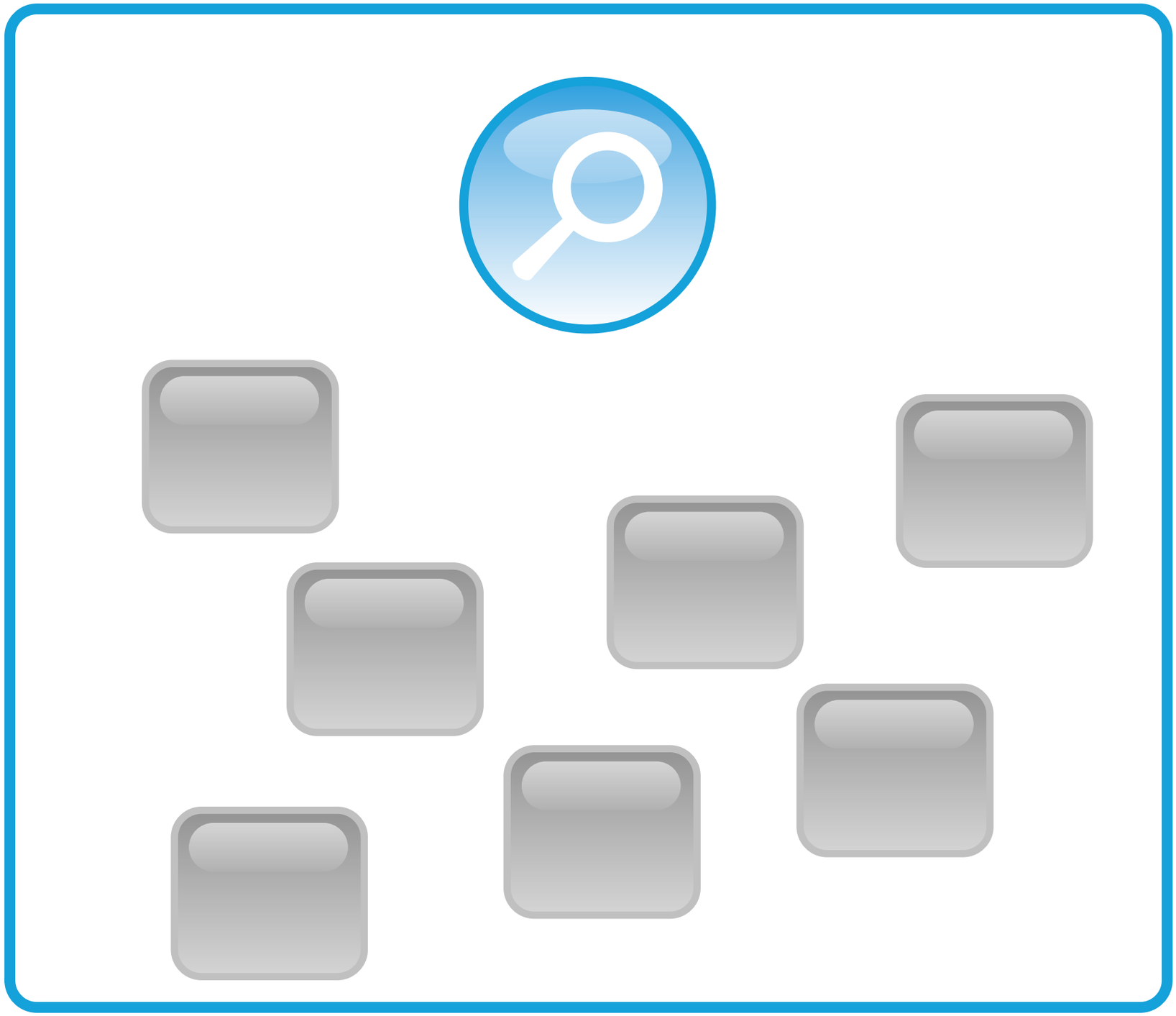
Métadonnées **MARCXML** + Fichiers(s)

Moteur de recherche



Moteur de recherche

User



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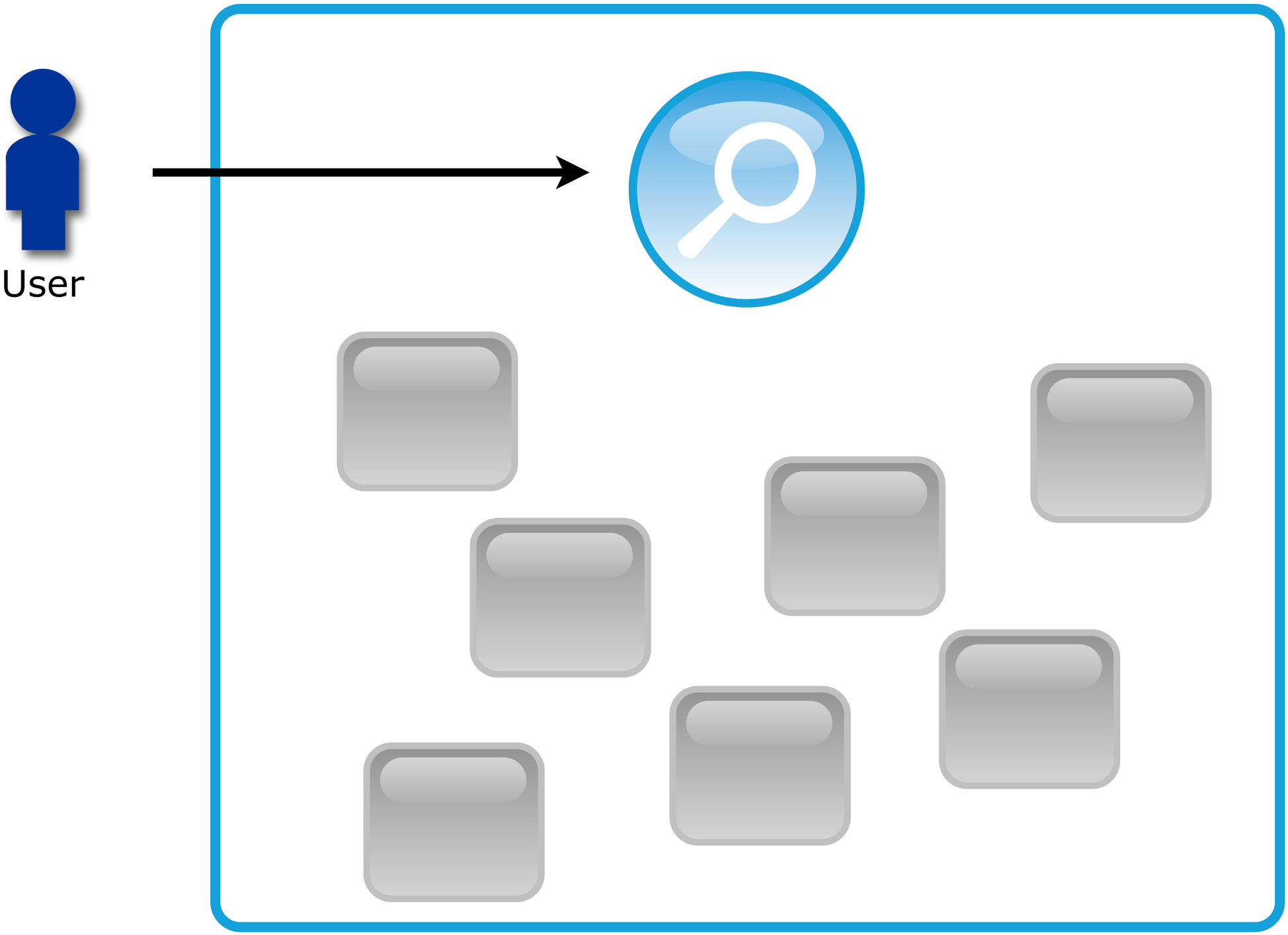

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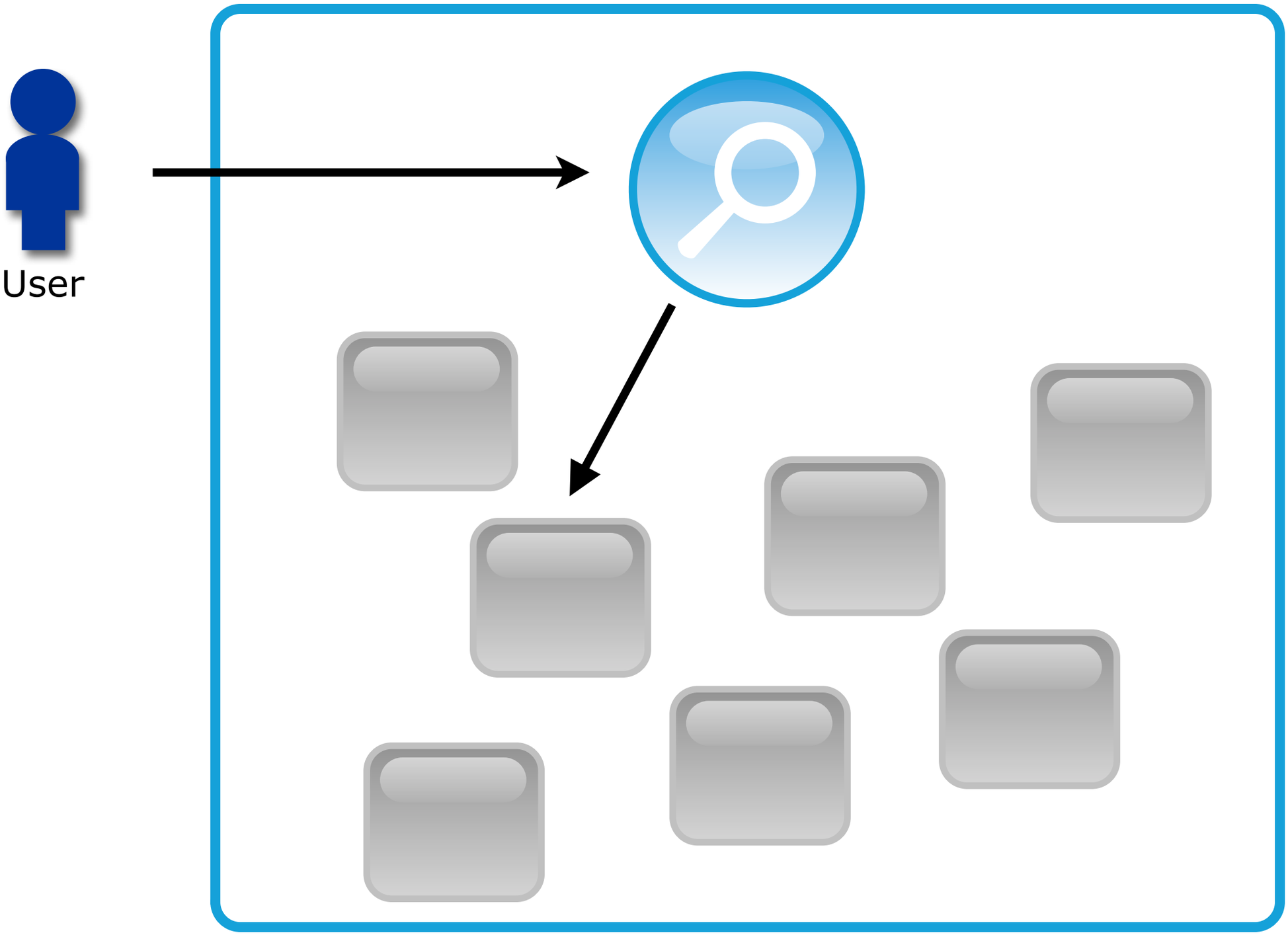

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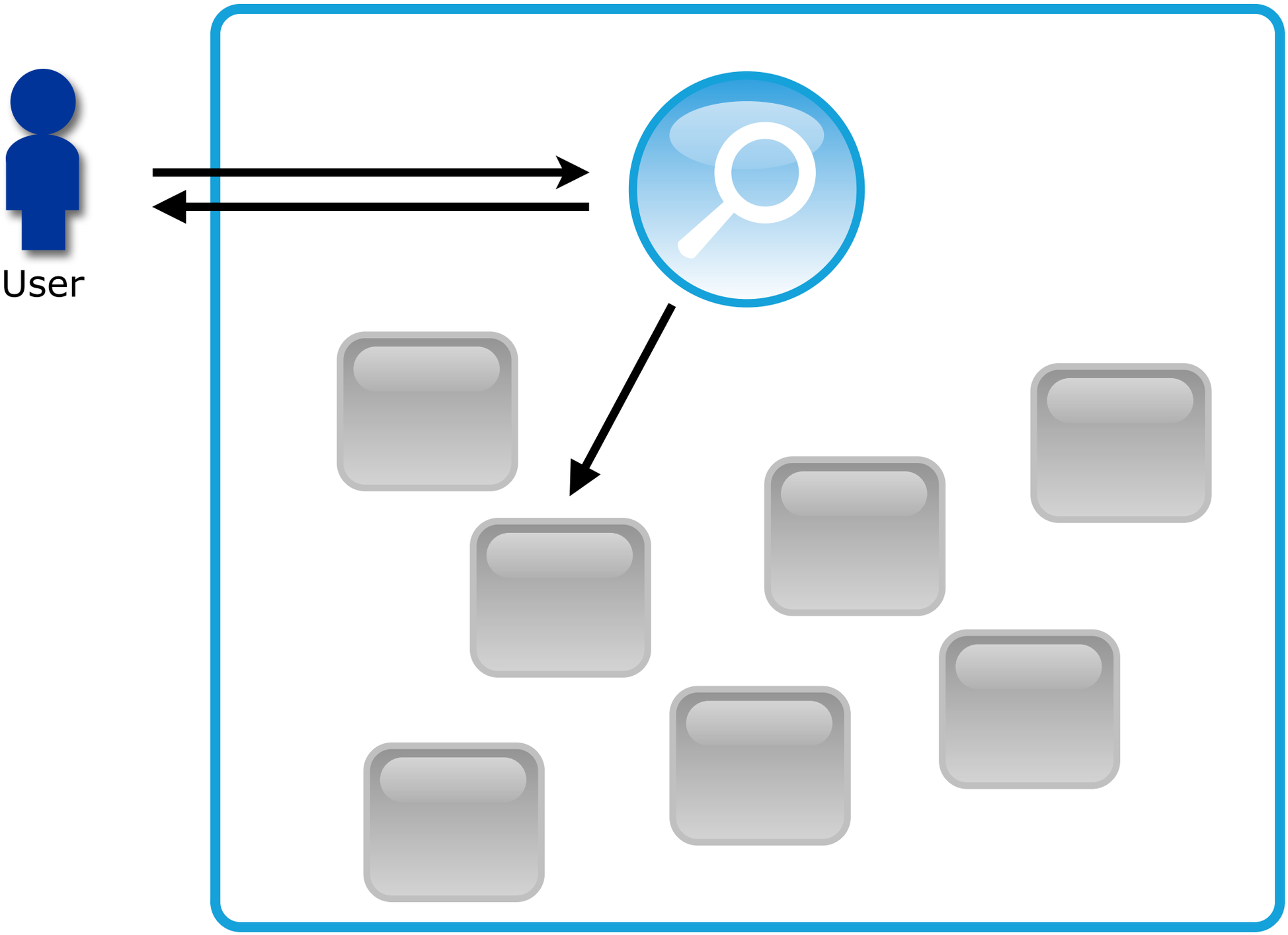

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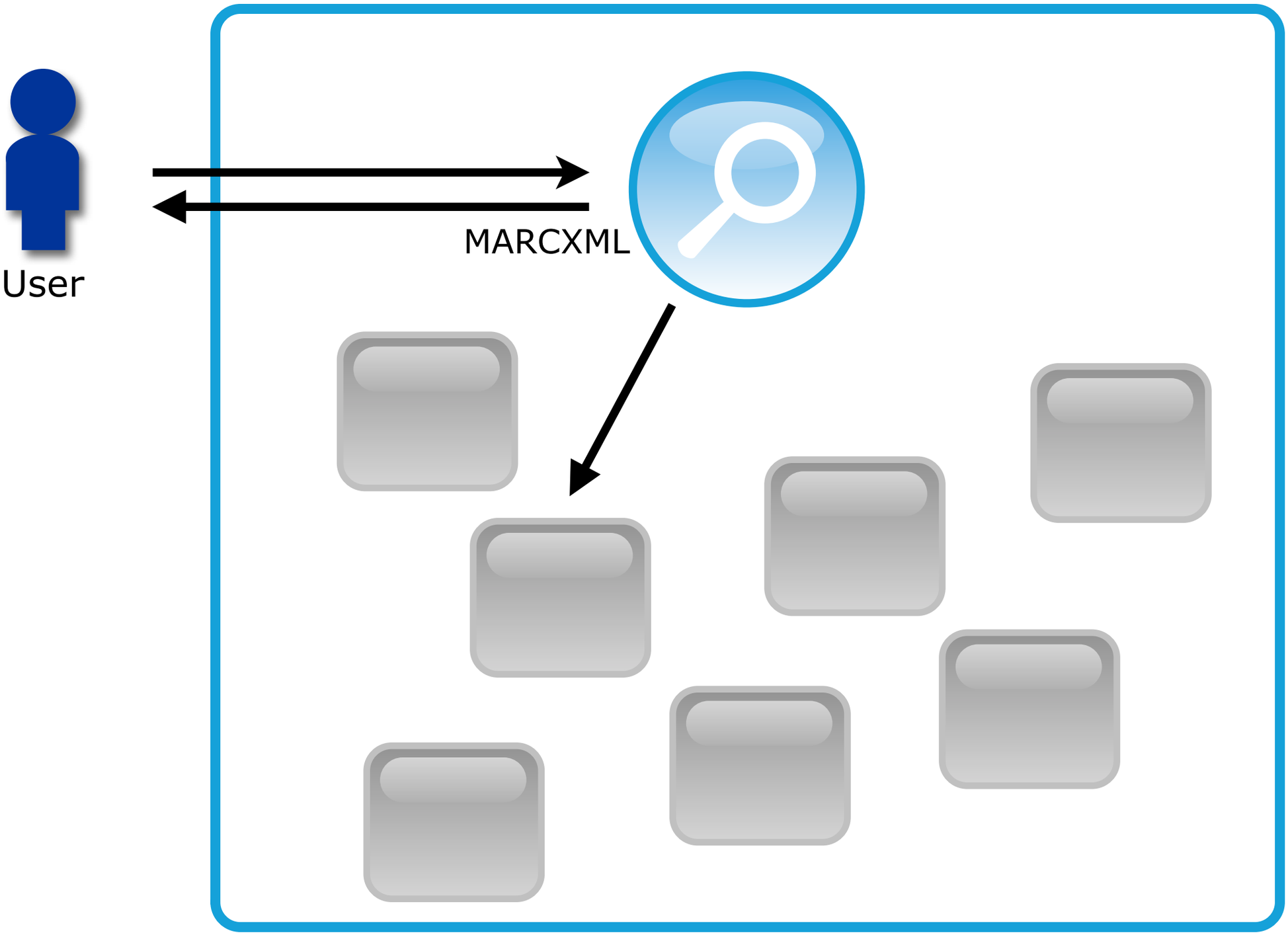

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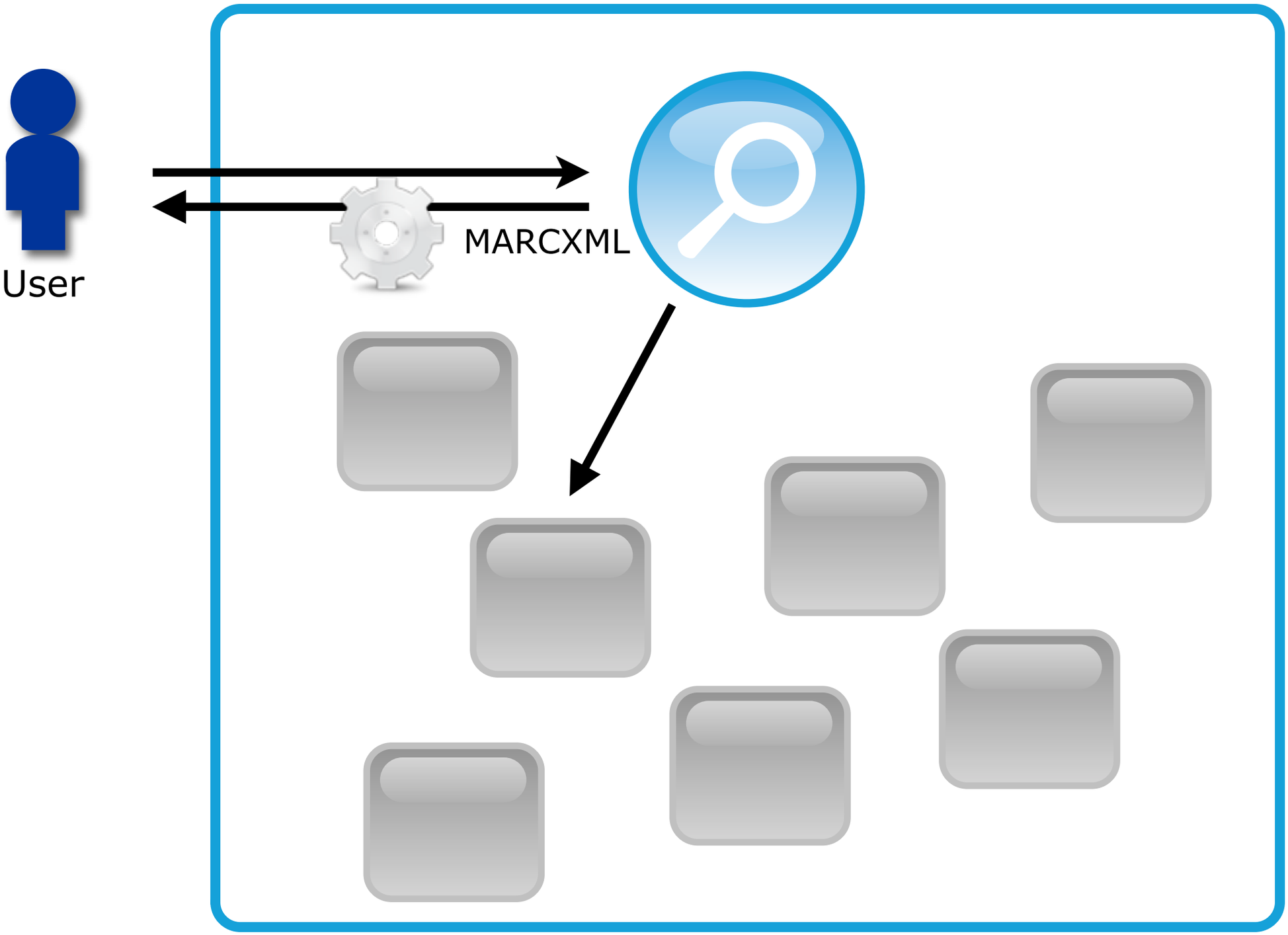

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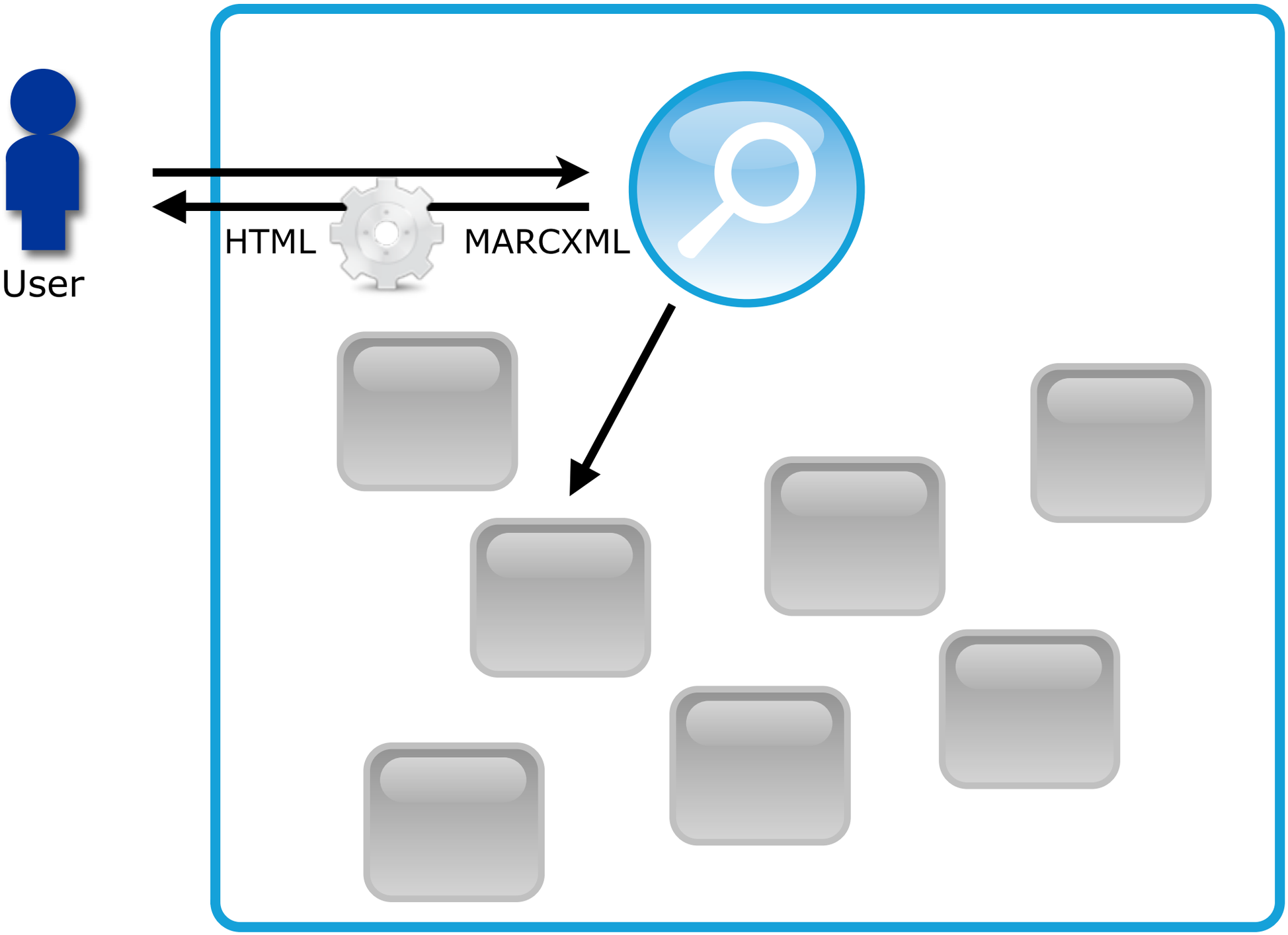

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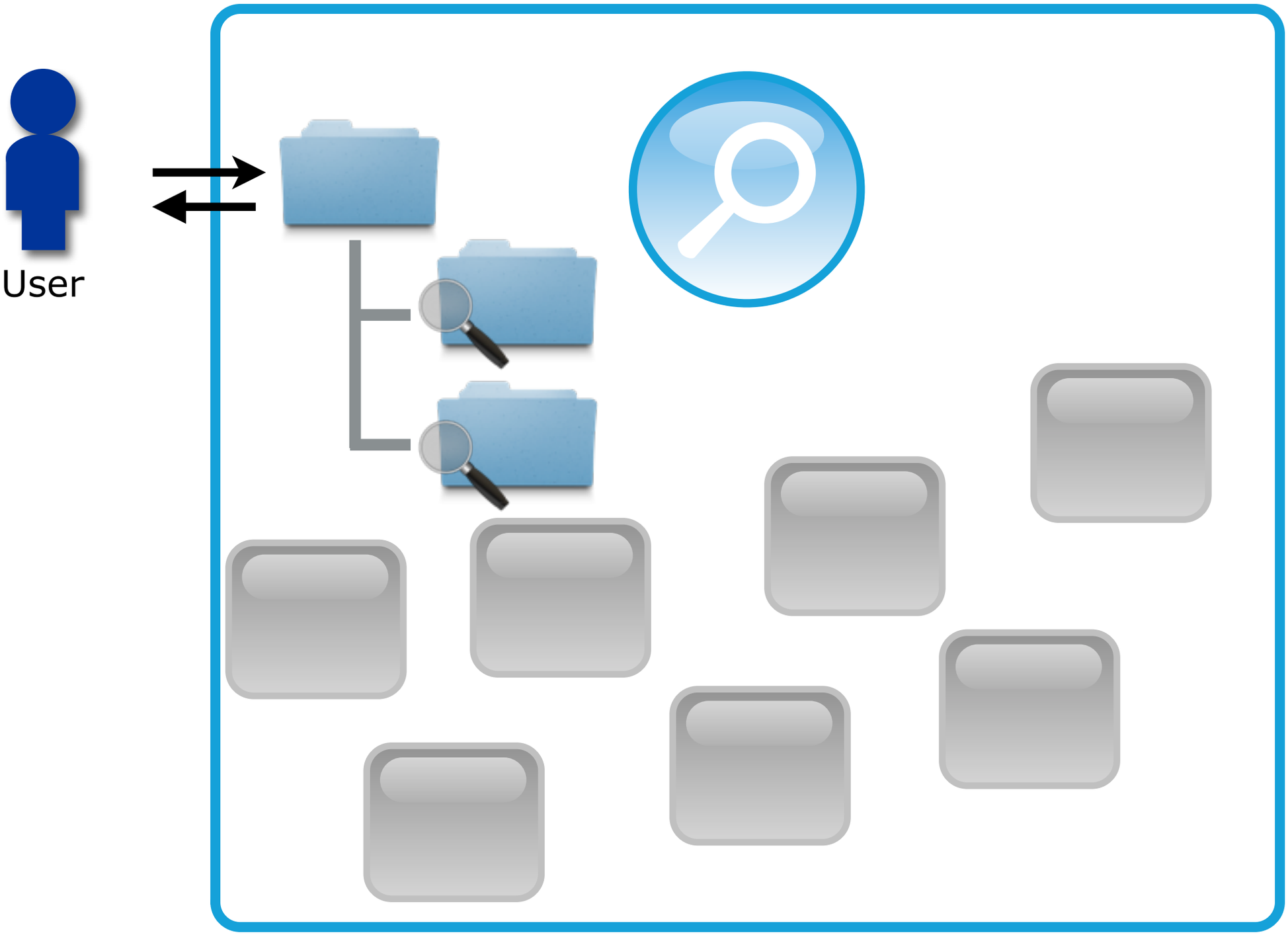

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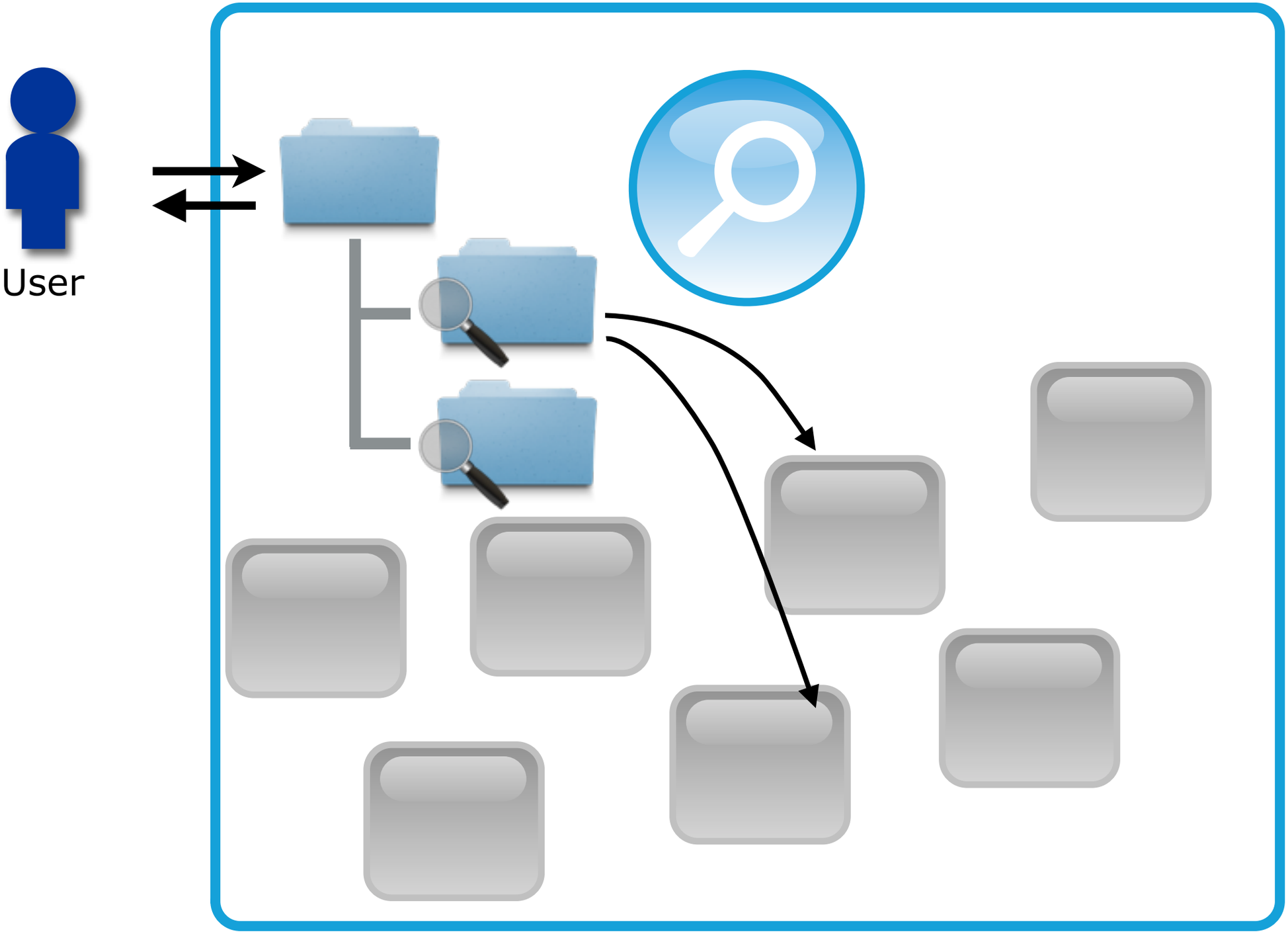

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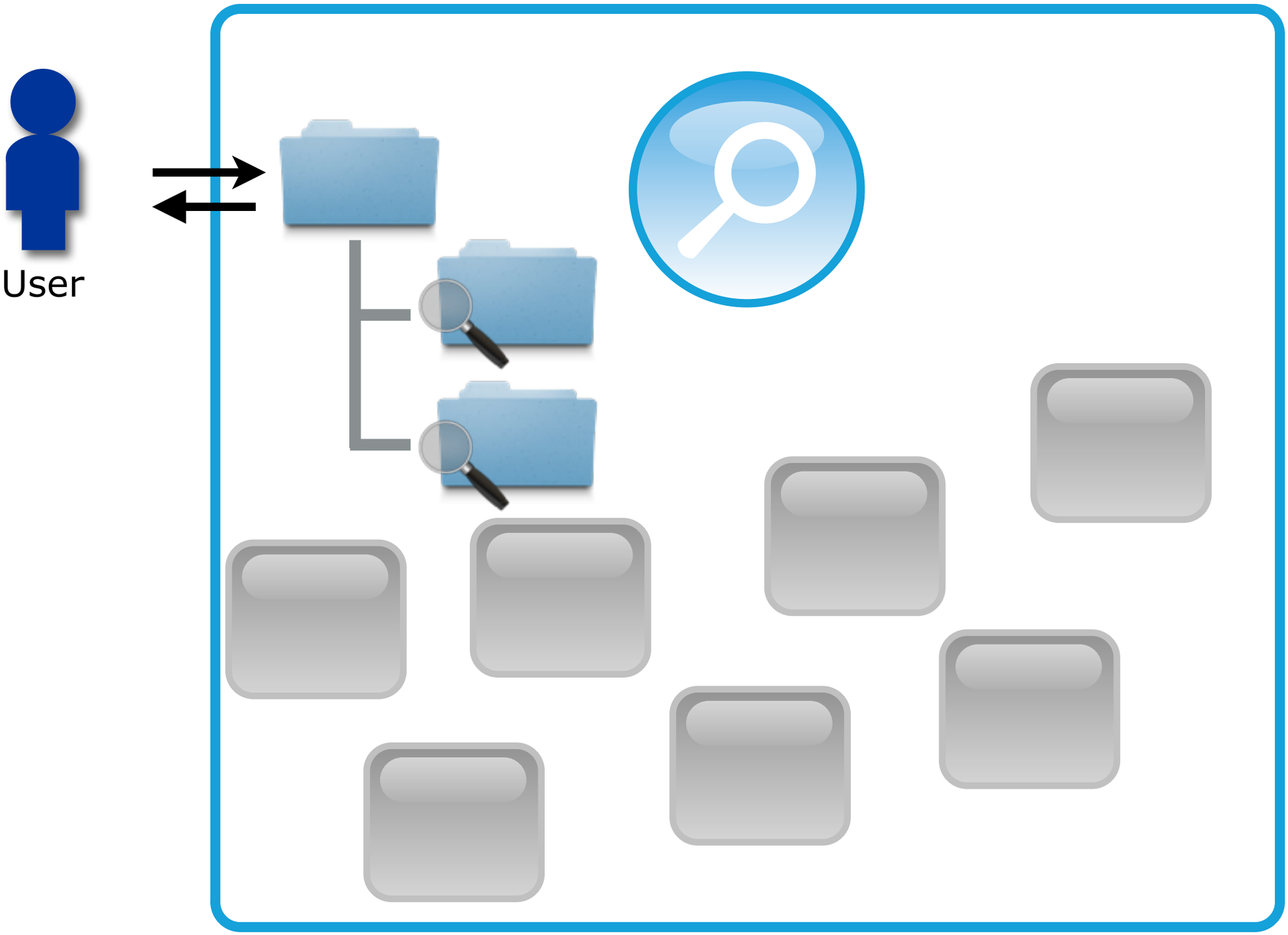

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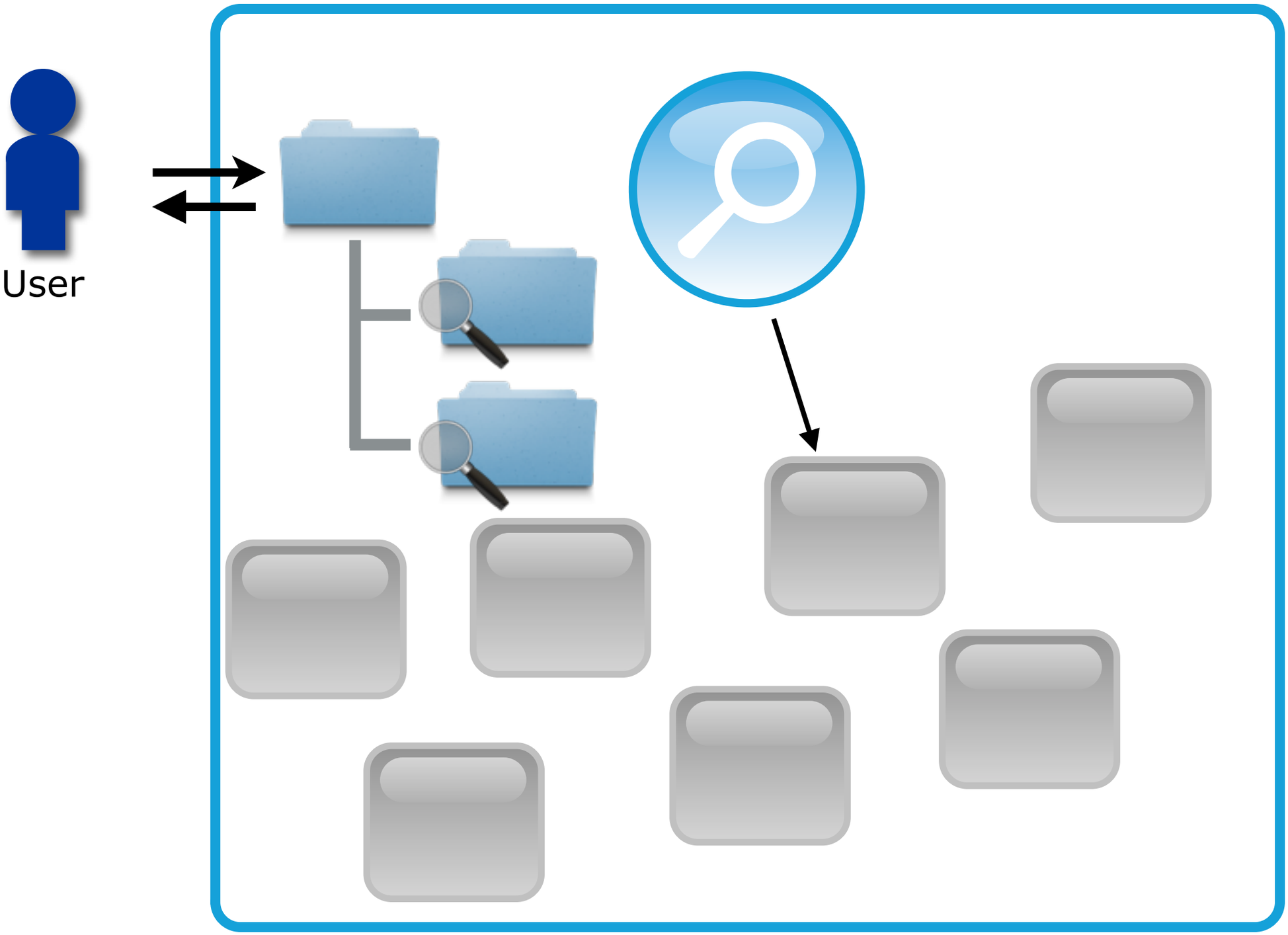

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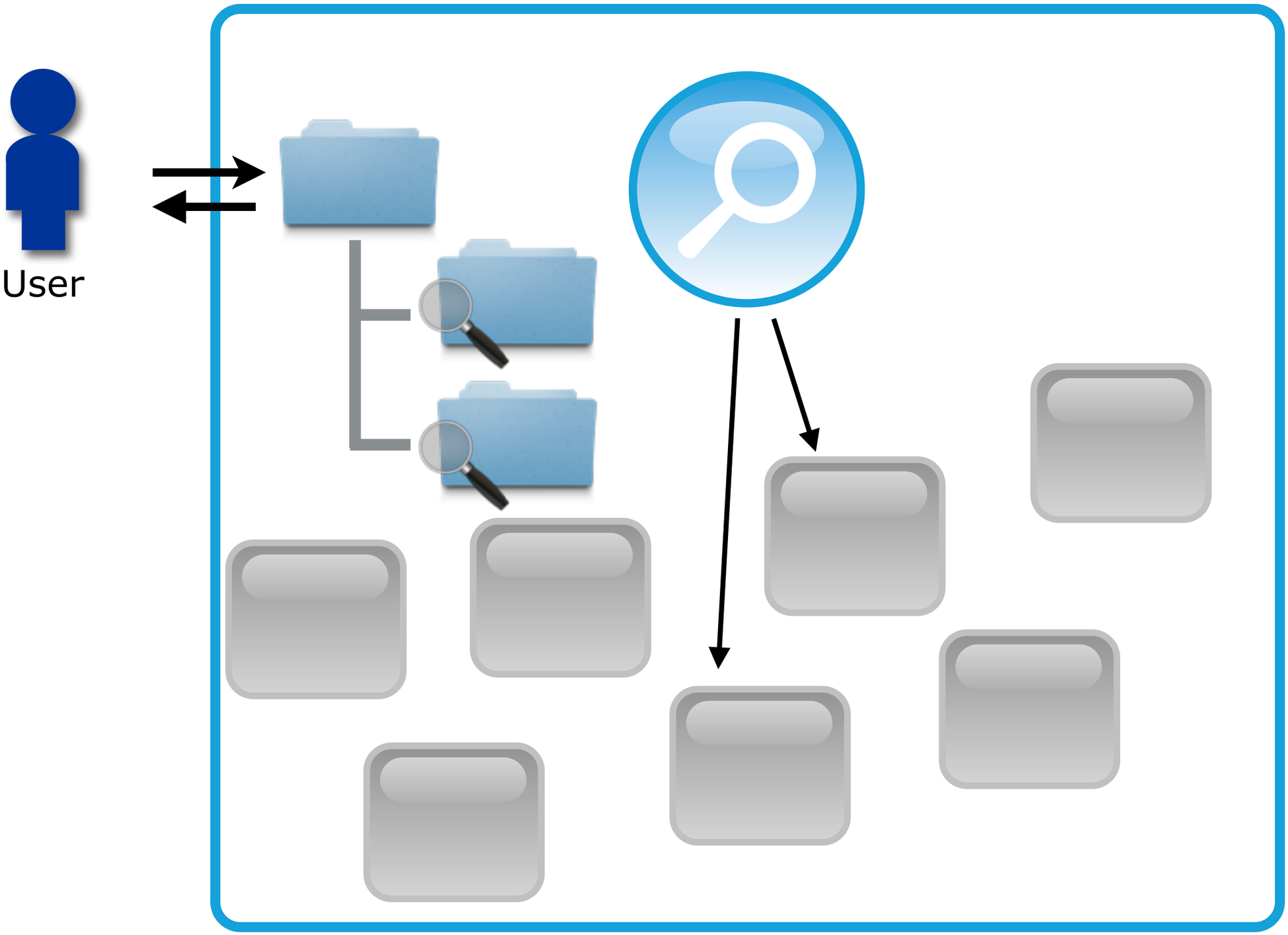

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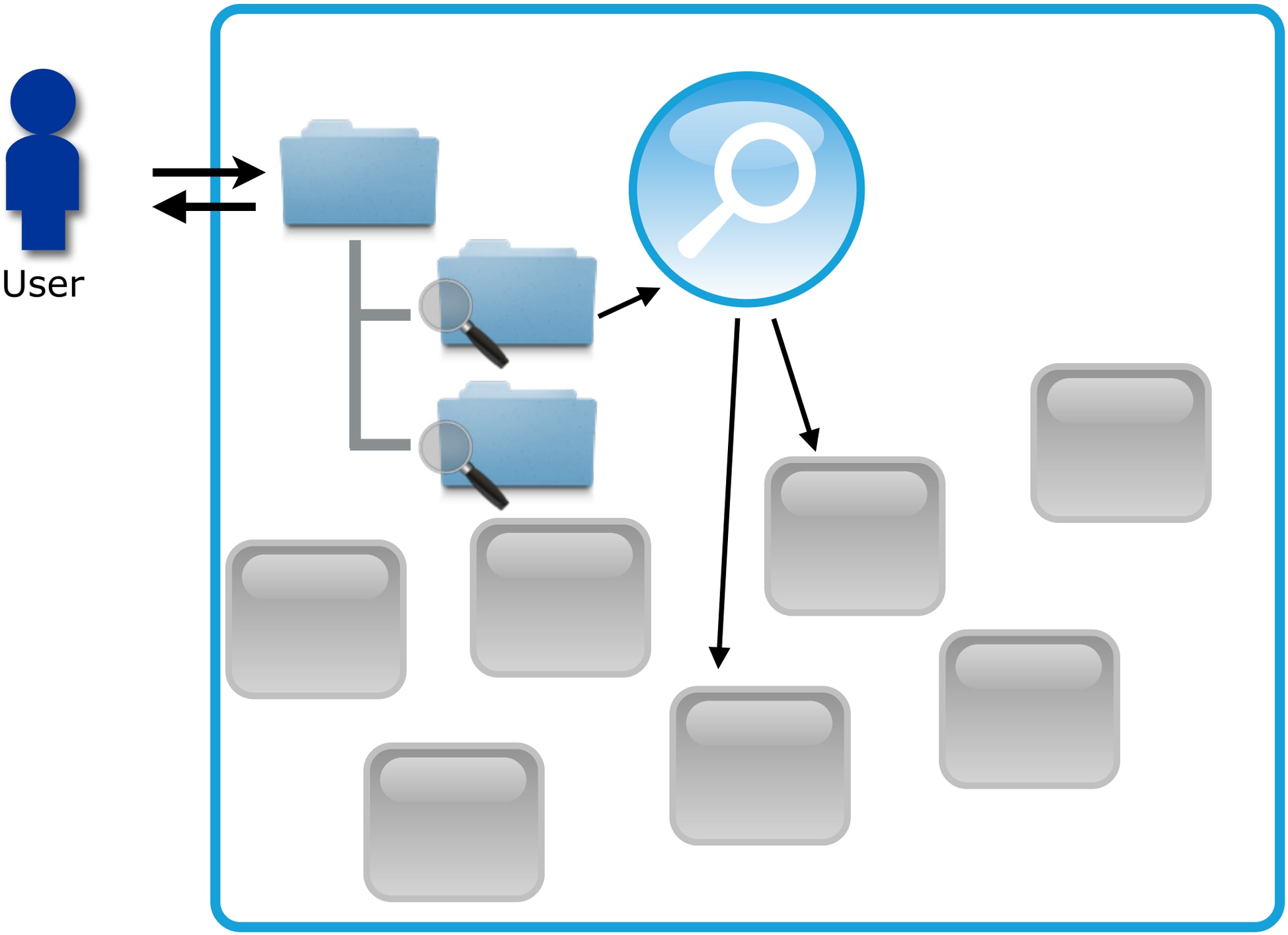


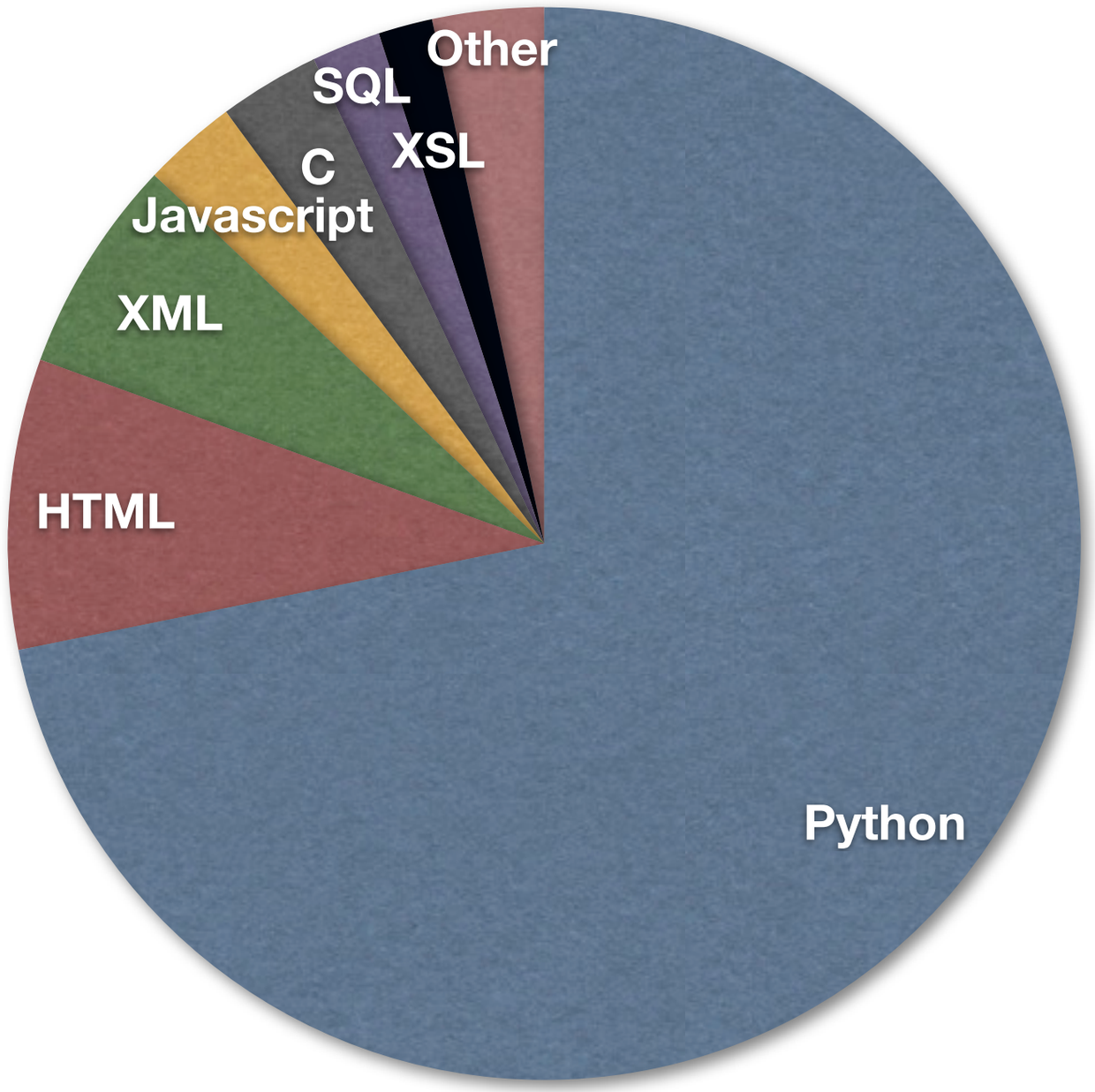
Concepts de base

- Un moteur de recherche au coeur d'Invenio
  - Rapide et optimisé
  - Syntaxe et rapidité "à la Google"
  - Recherches structurées avancées (métadonnées, références, texte)
- Arborescence de collections "intelligentes"
- Des records / métadonnées au format MARCXML

Architecture

- Open Source GNU GPL
- Python (et C et Lisp), MySQL et Apache
- Architecture modulaire. Scriptable.
- Basé sur des standards ouverts (MARCXML, MARC21, OAI-PMH, OpenURL...)
- Pour des archives de tailles moyenne à large

Architecture



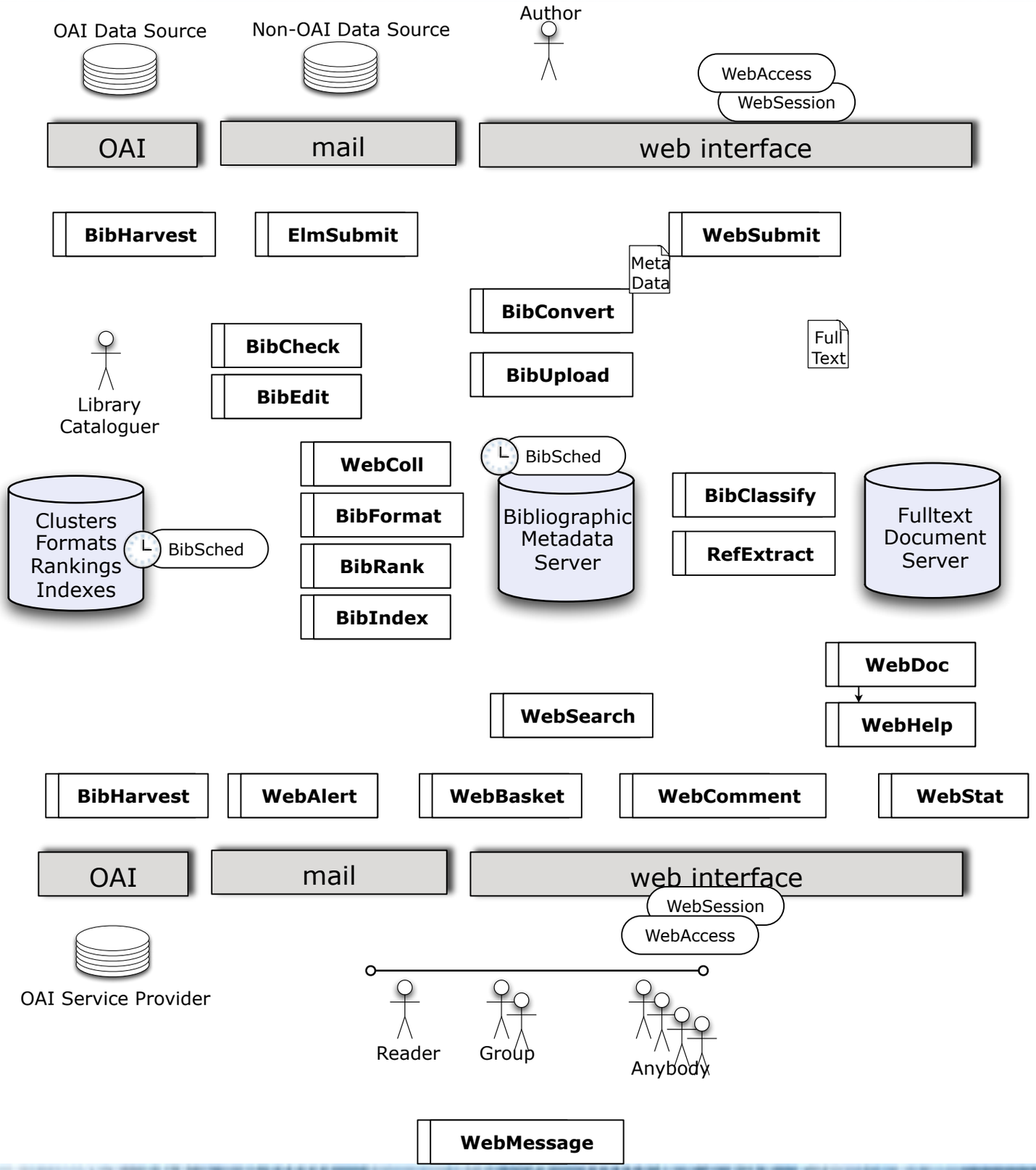
Source: https://www.ohloh.net/p/invenio/analyses/latest

Architecture

Language	Code Lines	Comment	Comment	Blank Lines	Total Lines
Python	141,545	82,761	36.9 %	32,985	257,291
HTML	26,954	301	1.1 %	4,102	31,357
XML	23,147	51	0.2 %	16	23,214
JavaScript	7,305	1,845	20.2 %	1,037	10,187
C	7,021	3,133	30.9 %	738	10,892
SQL	6,734	123	1.8 %	572	7,429
XSL	4,833	682	12.4 %	343	5,858
CSS	3,660	140	3.7 %	146	3,946
Automake	1,962	3,543	64.4 %	762	6,267
Autoconf	771	0	0.0 %	47	818
Lisp	767	64	7.7 %	42	873
Make	309	84	21.4 %	58	451
shell script	153	165	51.9 %	32	350
Emacs	38	37	49.3 %	13	88
TeX/LaTeX	29	5	14.7 %	6	40
Lua	10	2	16.7 %	3	15

Source: https://www.ohloh.net/p/invenio/analyses/latest

Workflow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Author
WebAccess
WebSession
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BibHarvest
ElmSubmit
WebSubmit
Meta Data
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BibUpload
Full Text
Library Cataloguer
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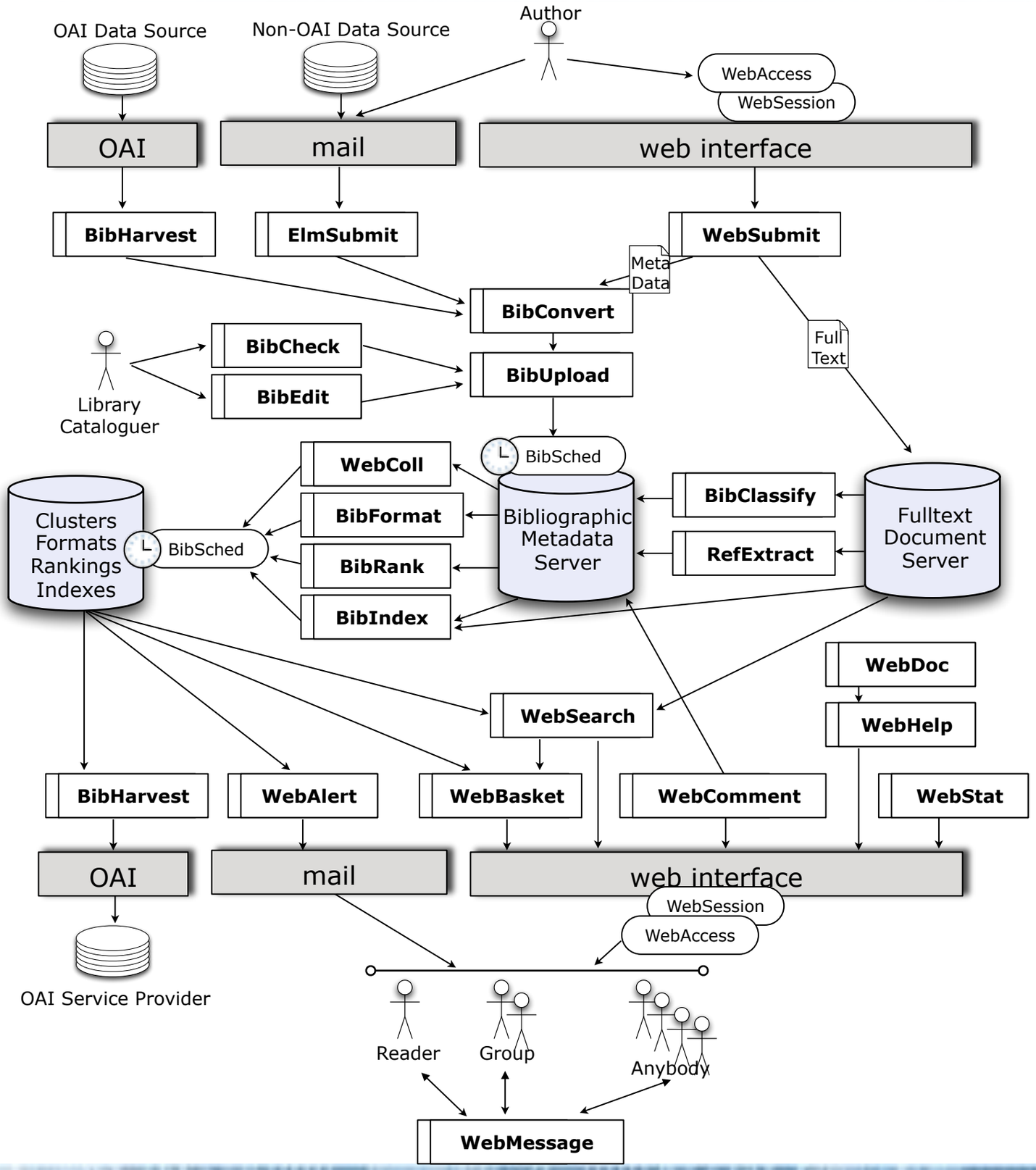
Reader
Group
Anybody
WebMessage

Workflow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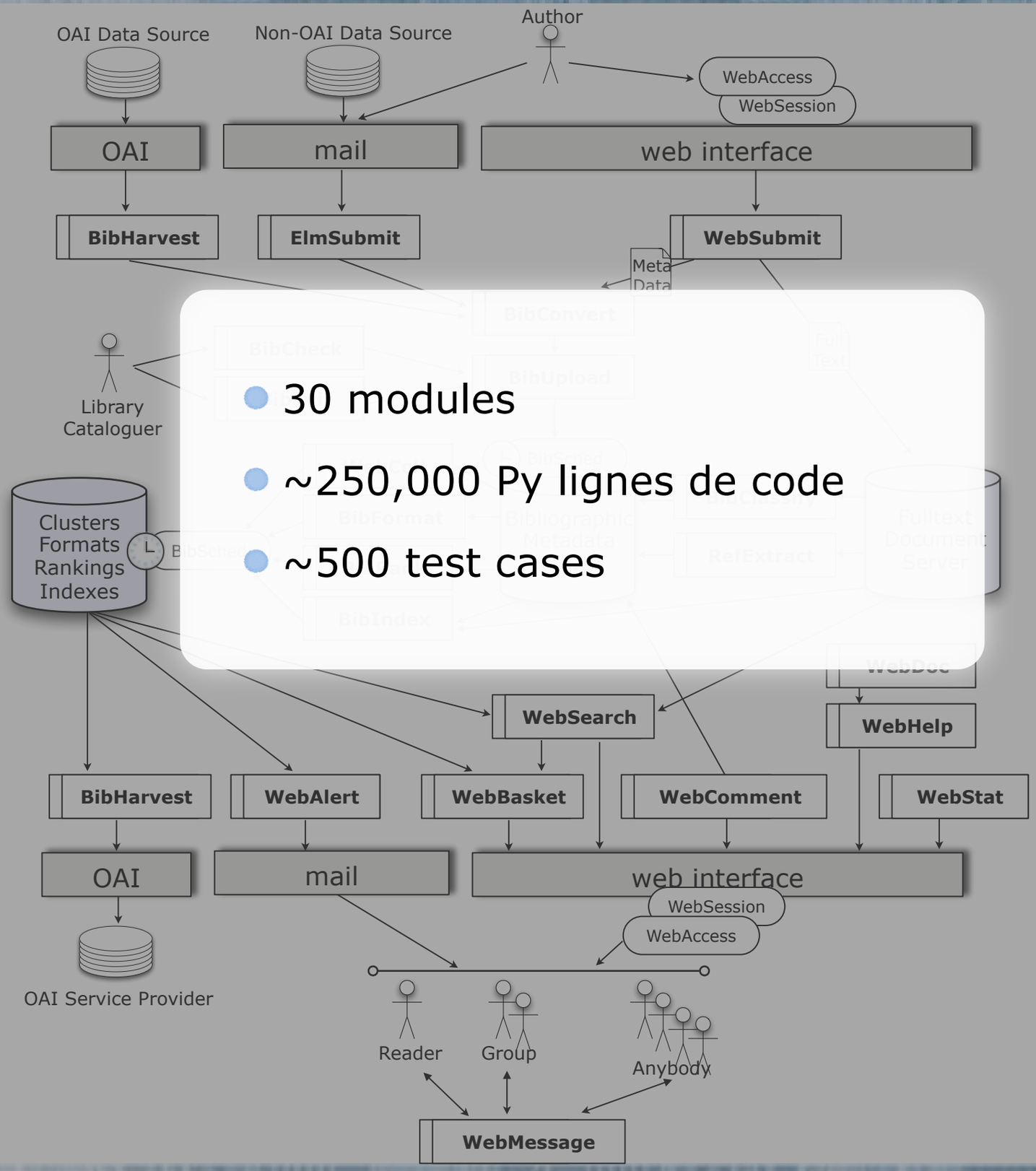
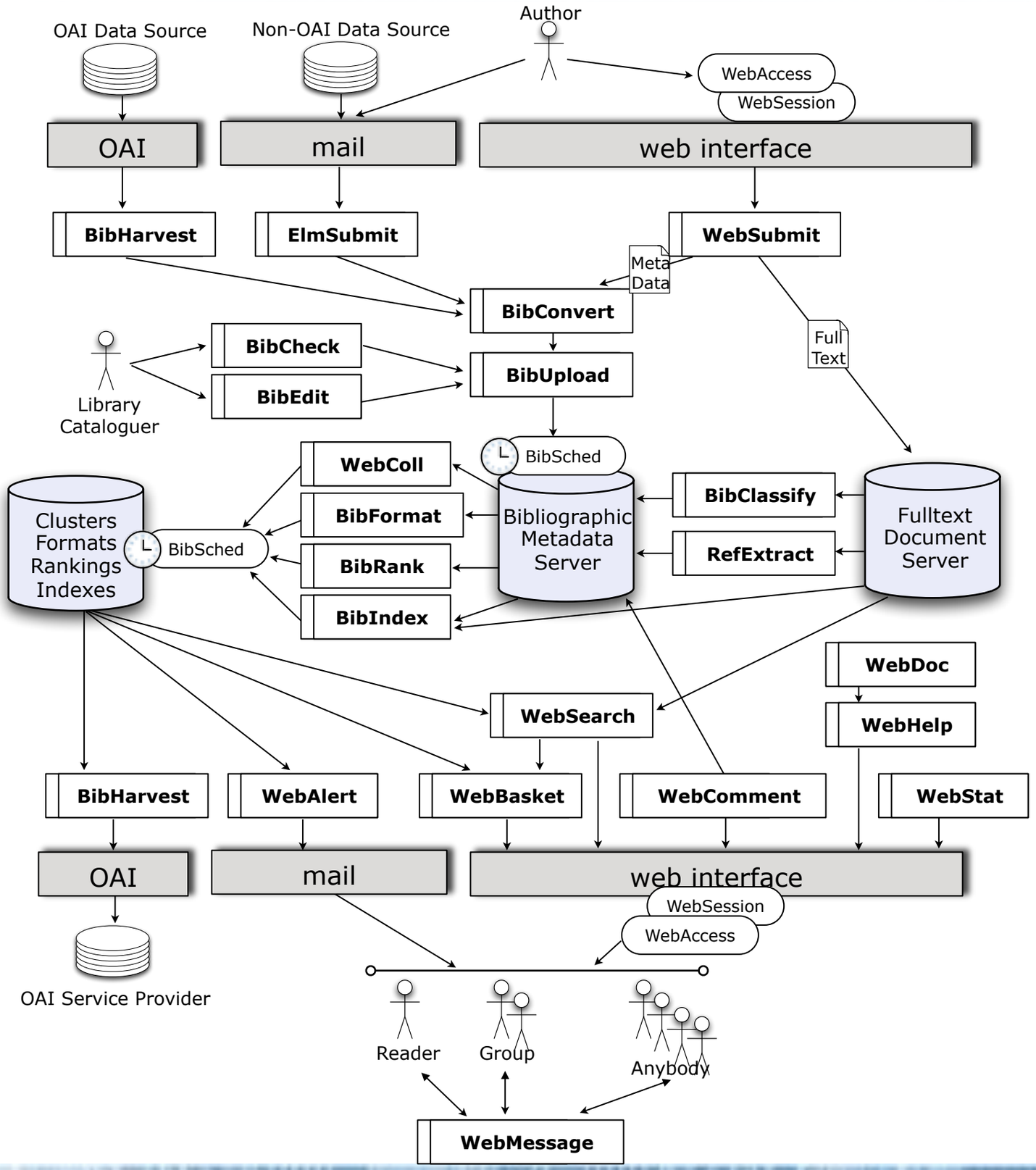
Workflow



- 30 modules
- ~250,000 Py lignes de code
- ~500 test cases

Workflow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BibSched
Bibliographic Metadata Server
BibClassify
RefExtract
Fulltext Document Server
WebDoc
WebHelp
WebSearch
BibHarvest
WebAlert
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WebStat
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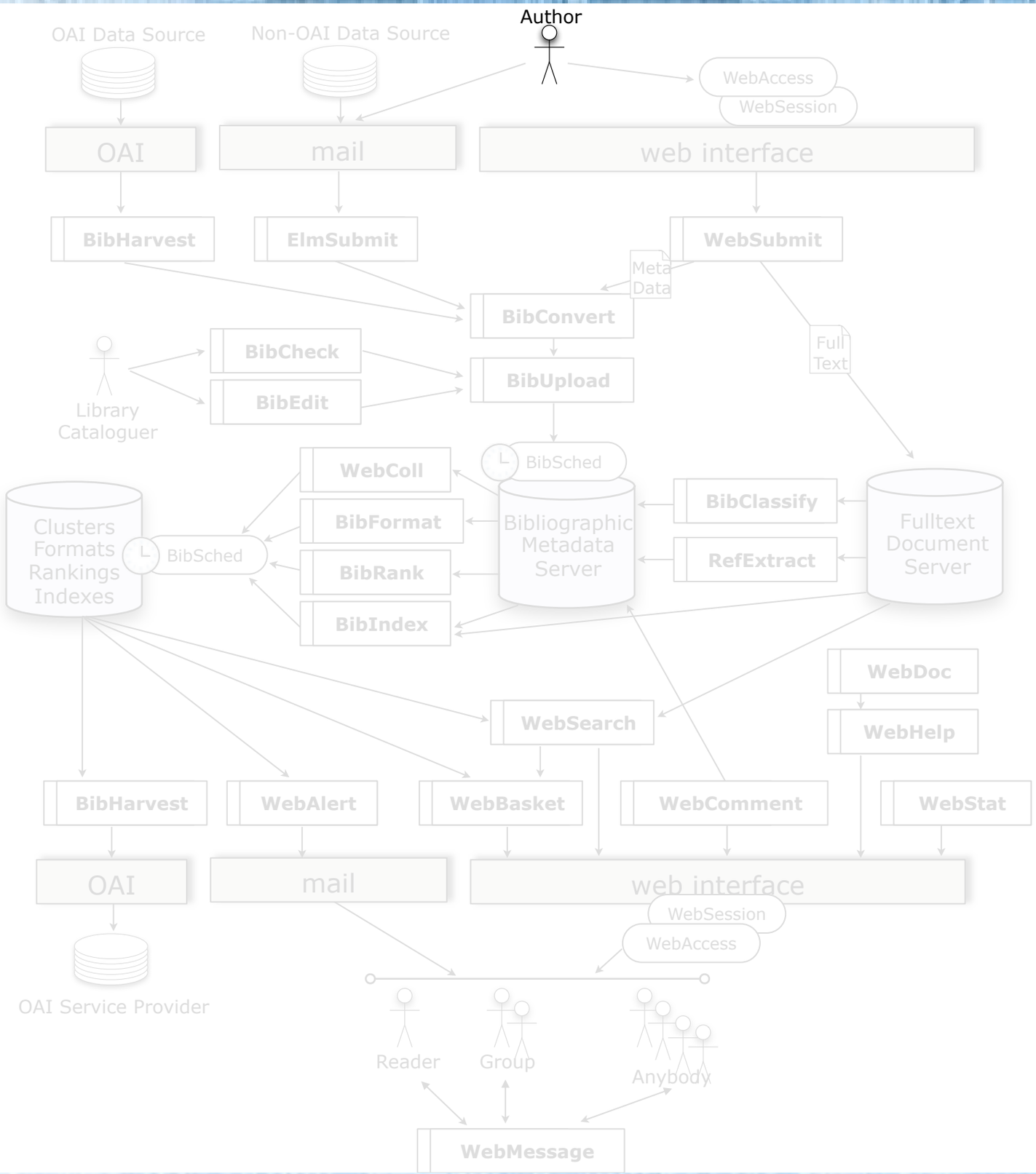
Workflow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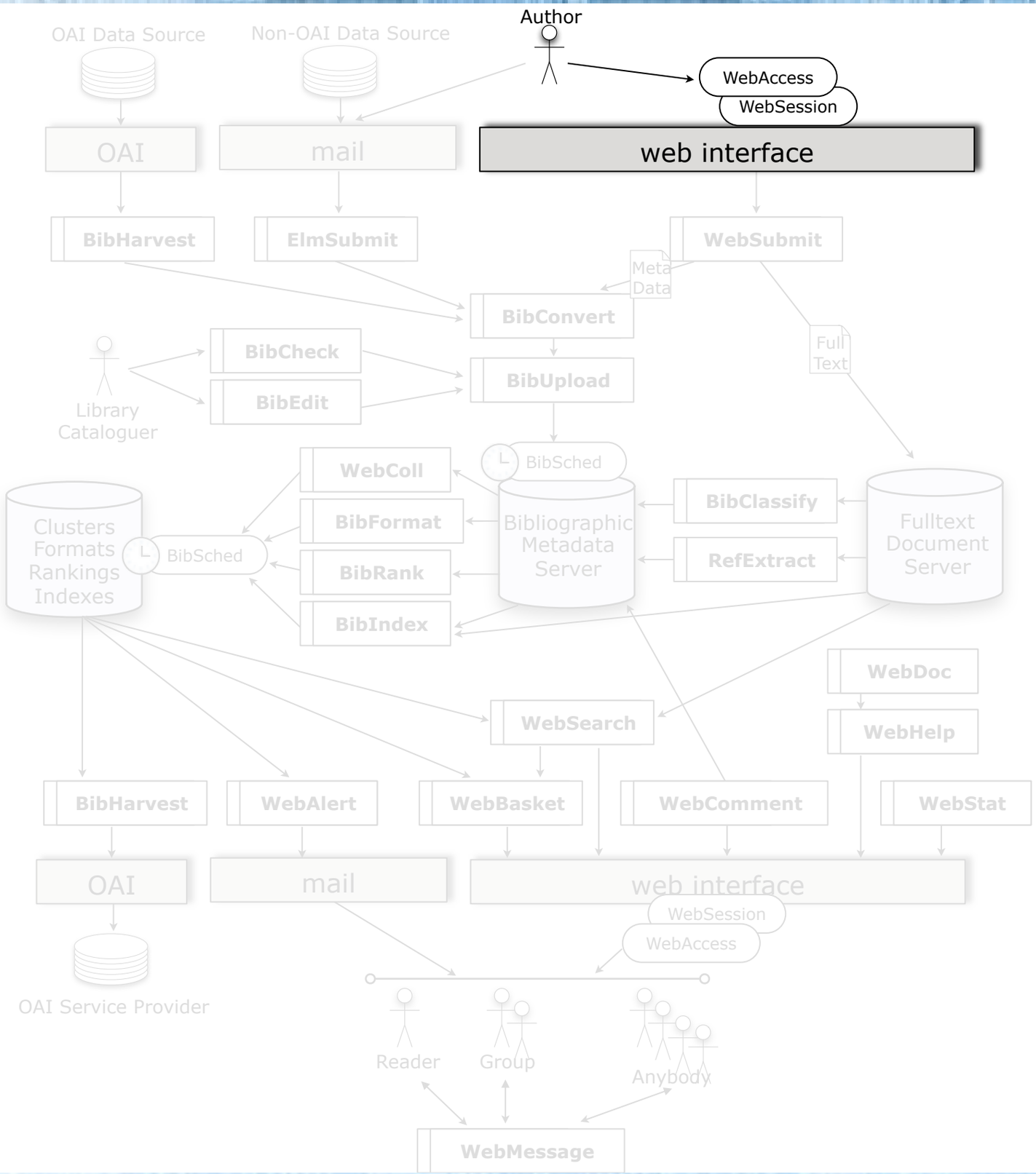
Workflow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Fulltext Document Server
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WebSearch
BibHarvest
WebAlert
WebBasket
WebComment
WebStat
OAI
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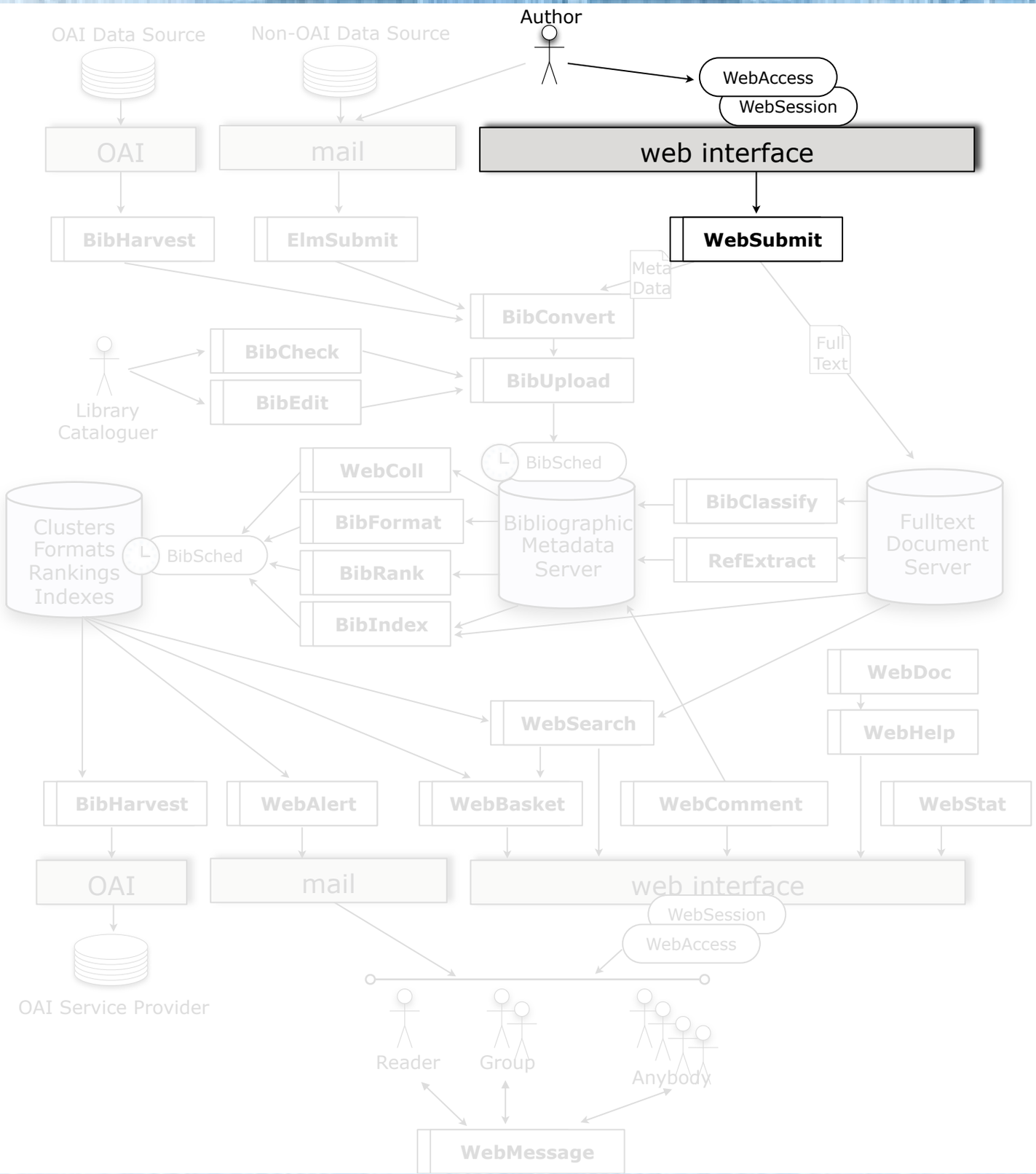
web interface
WebSession
WebAccess
OAI Service Provider
Reader
Group
Anybody
WebMessage

Workflow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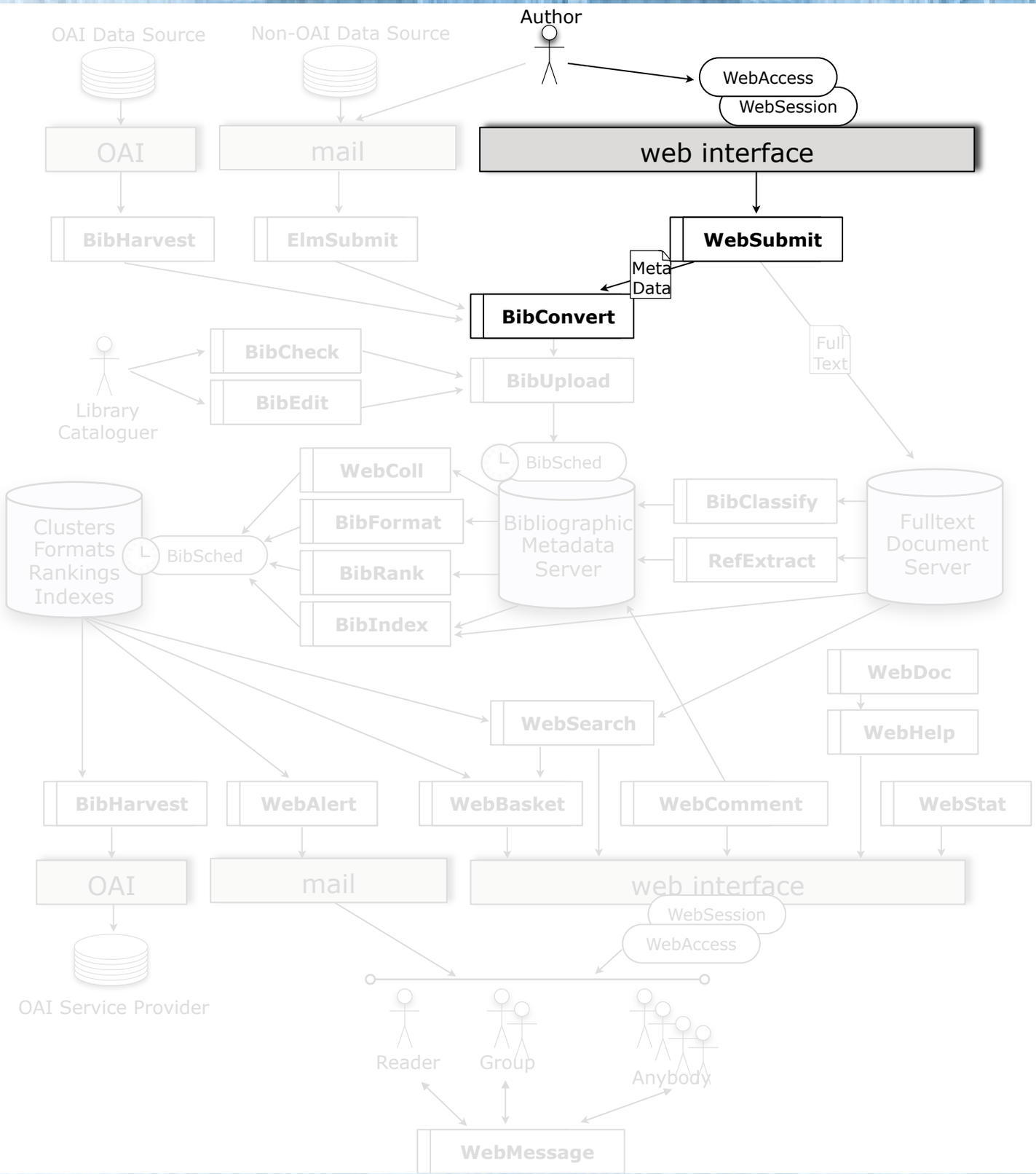
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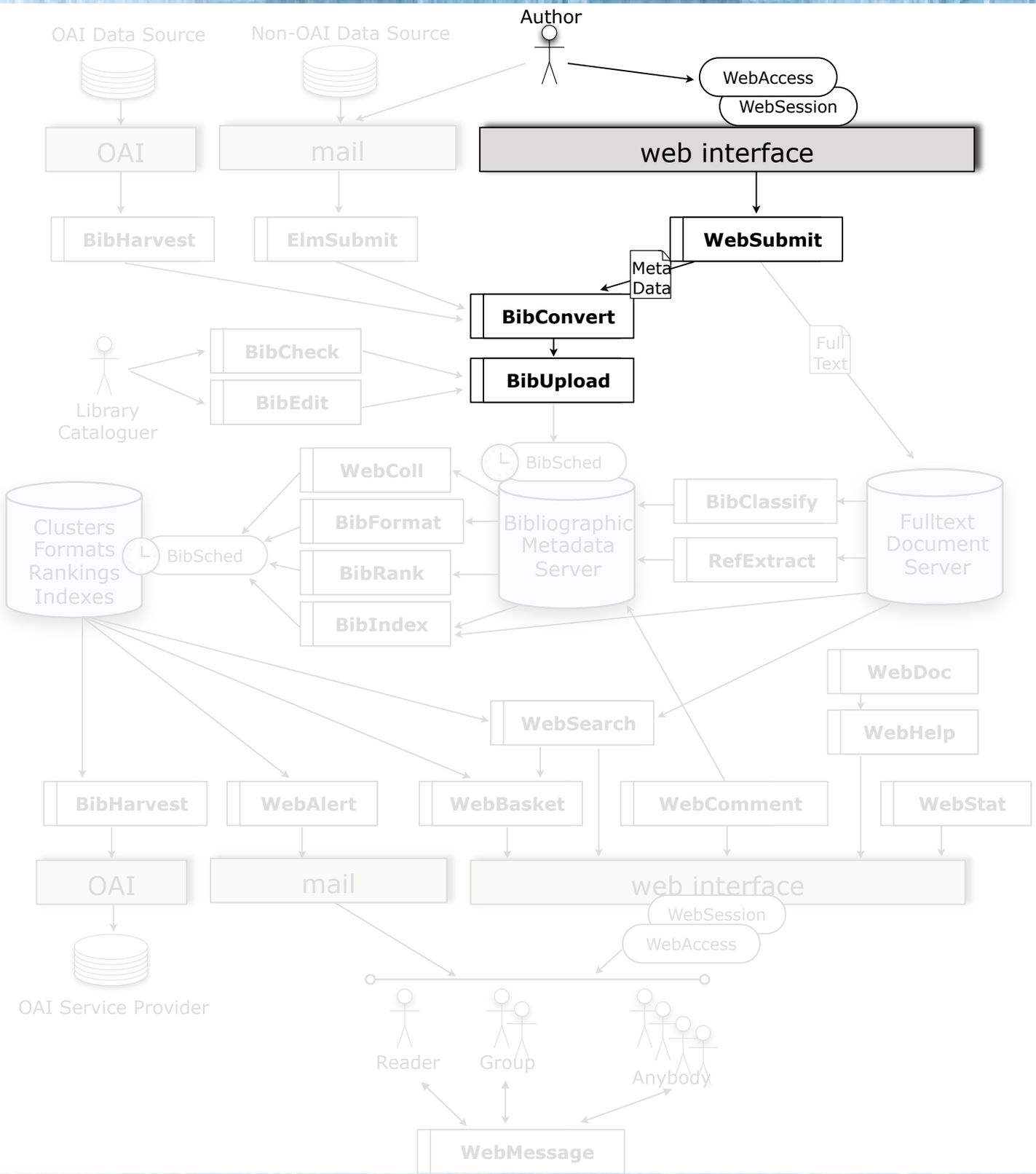
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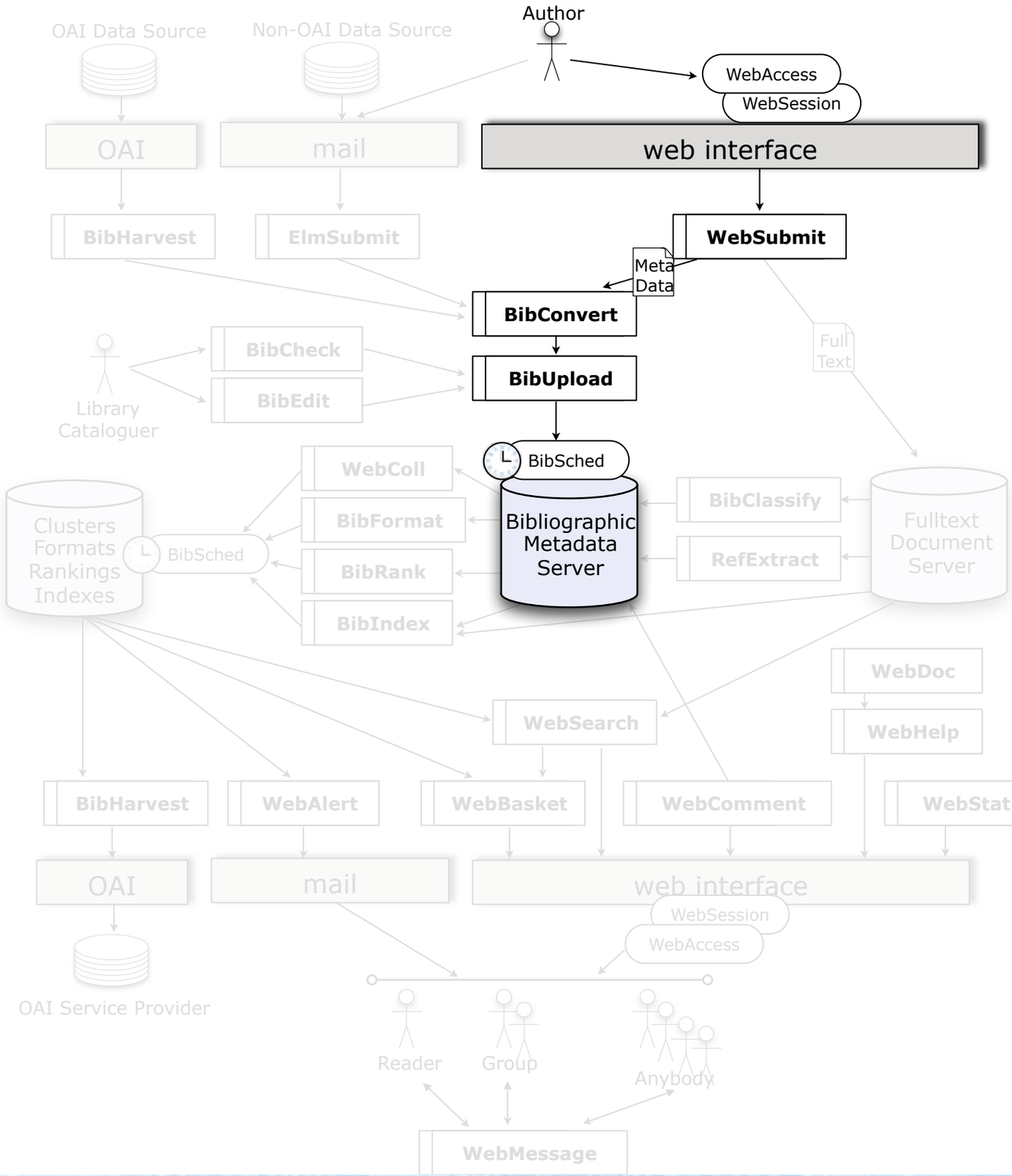
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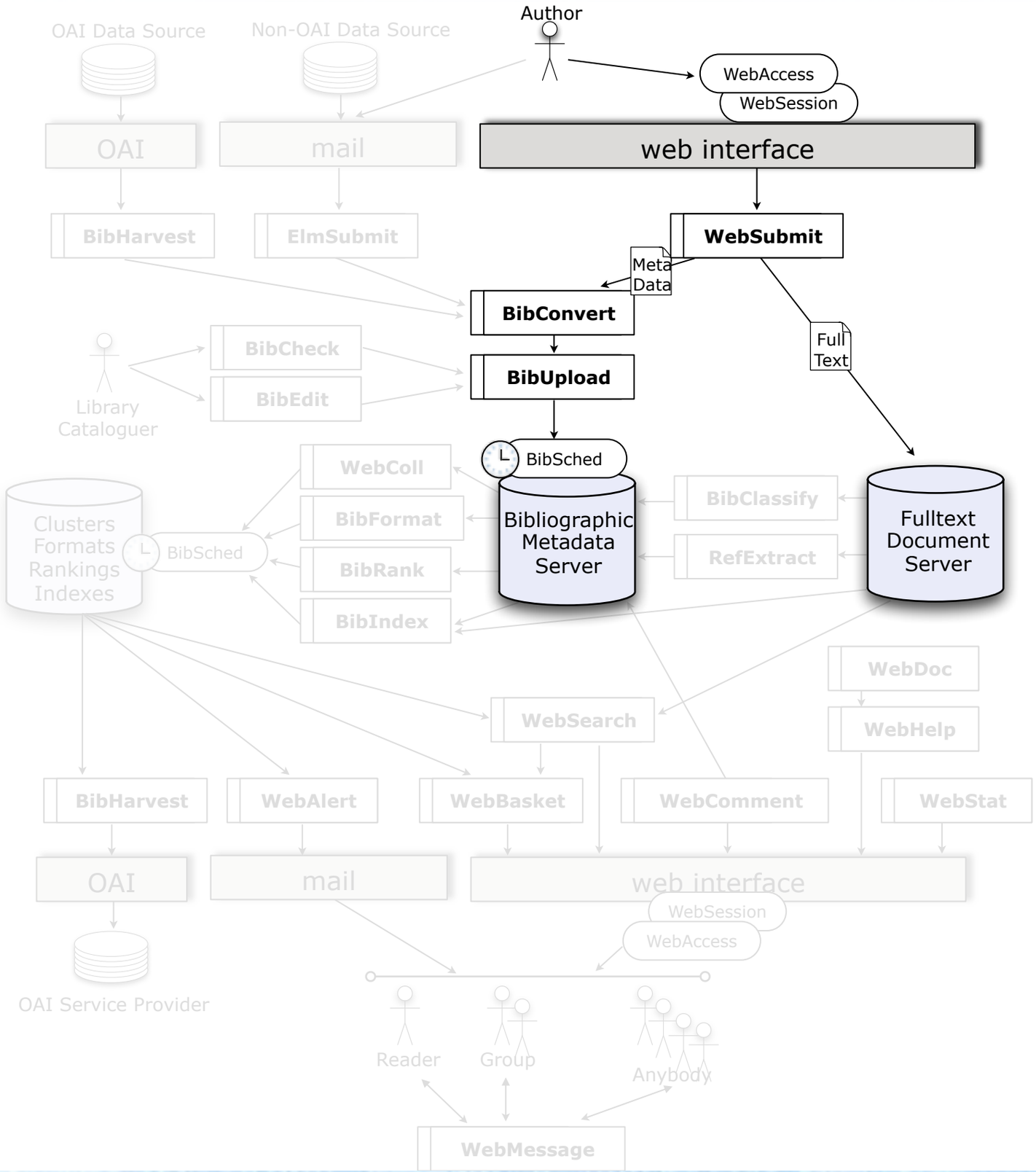
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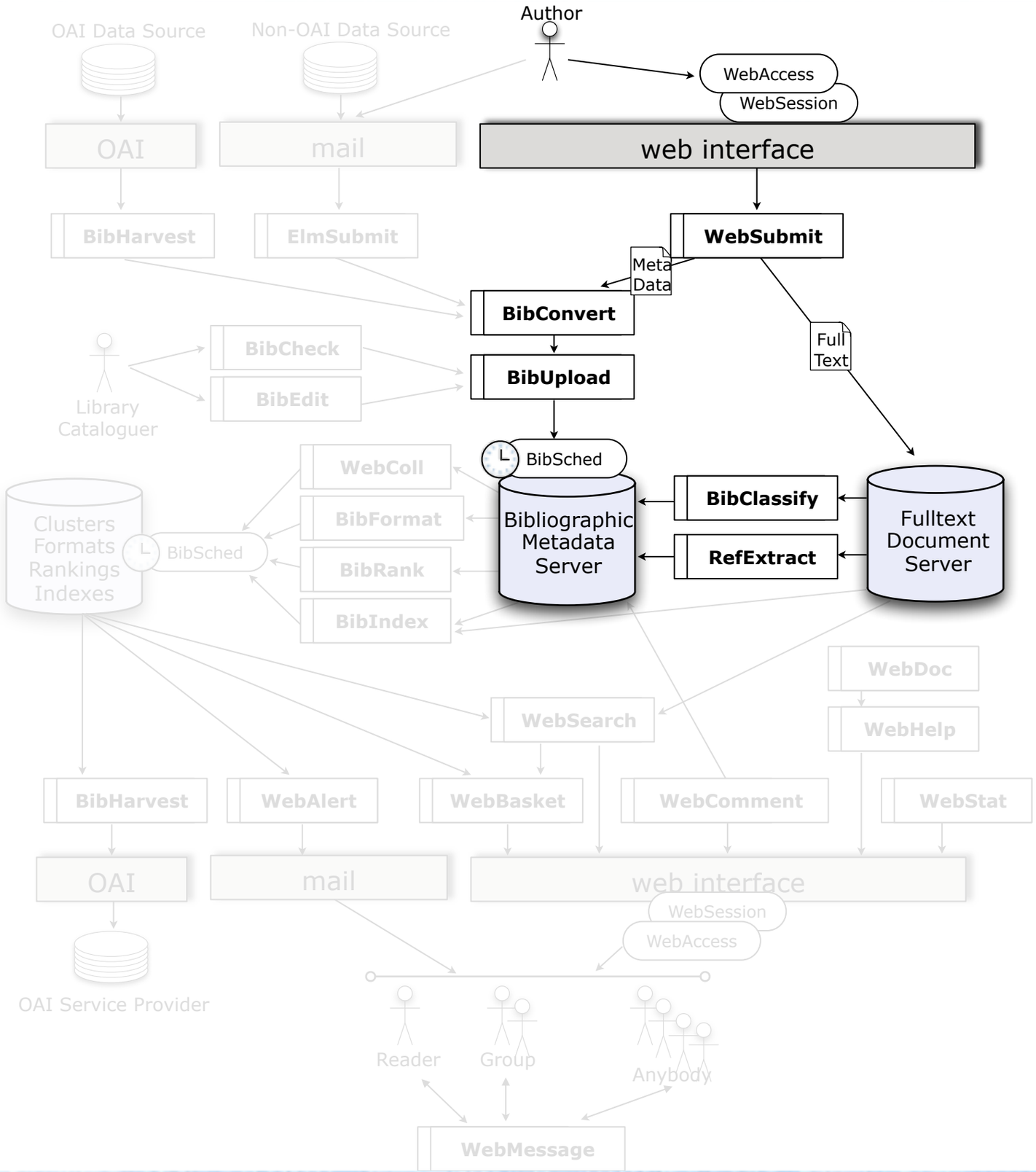
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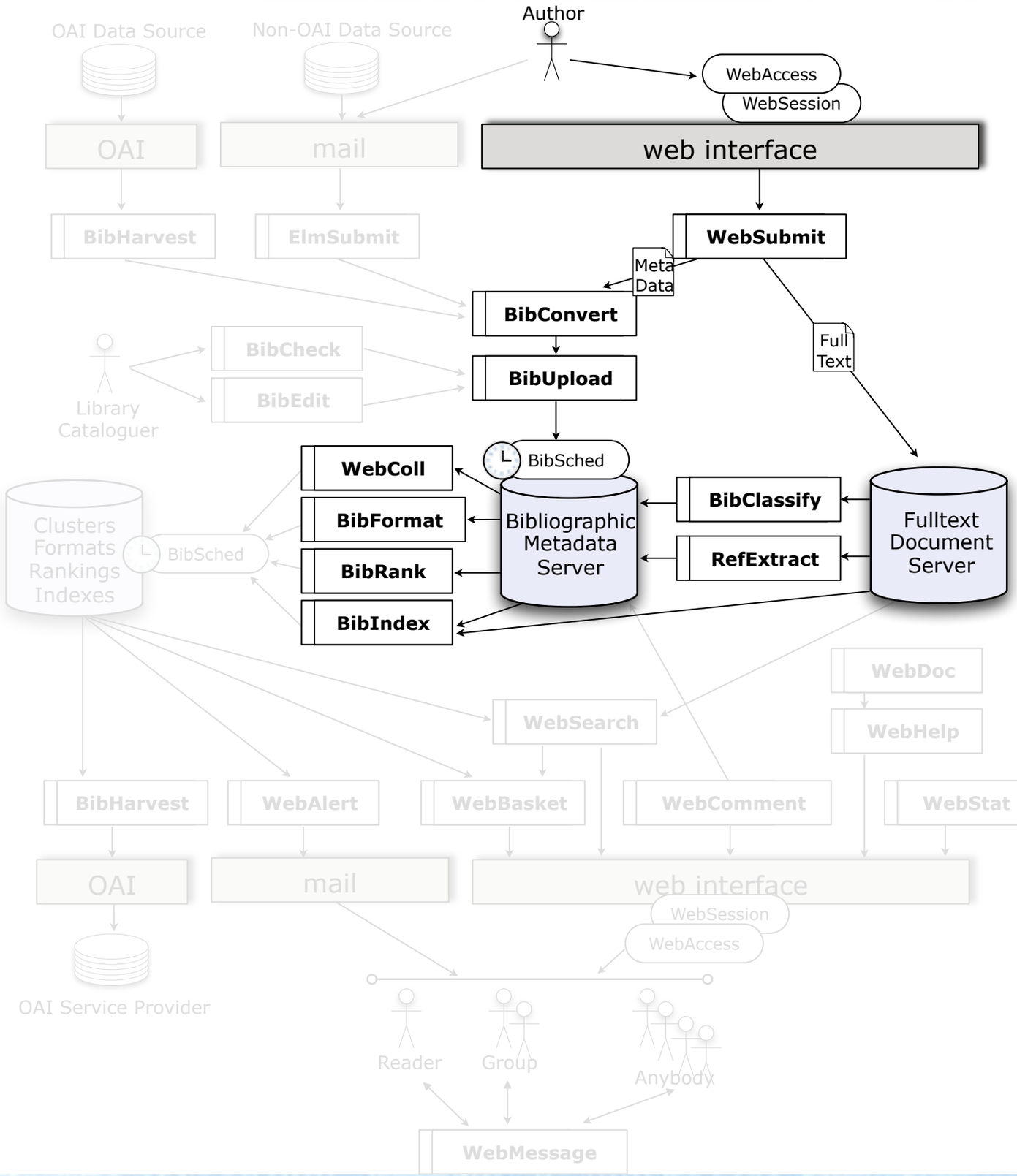
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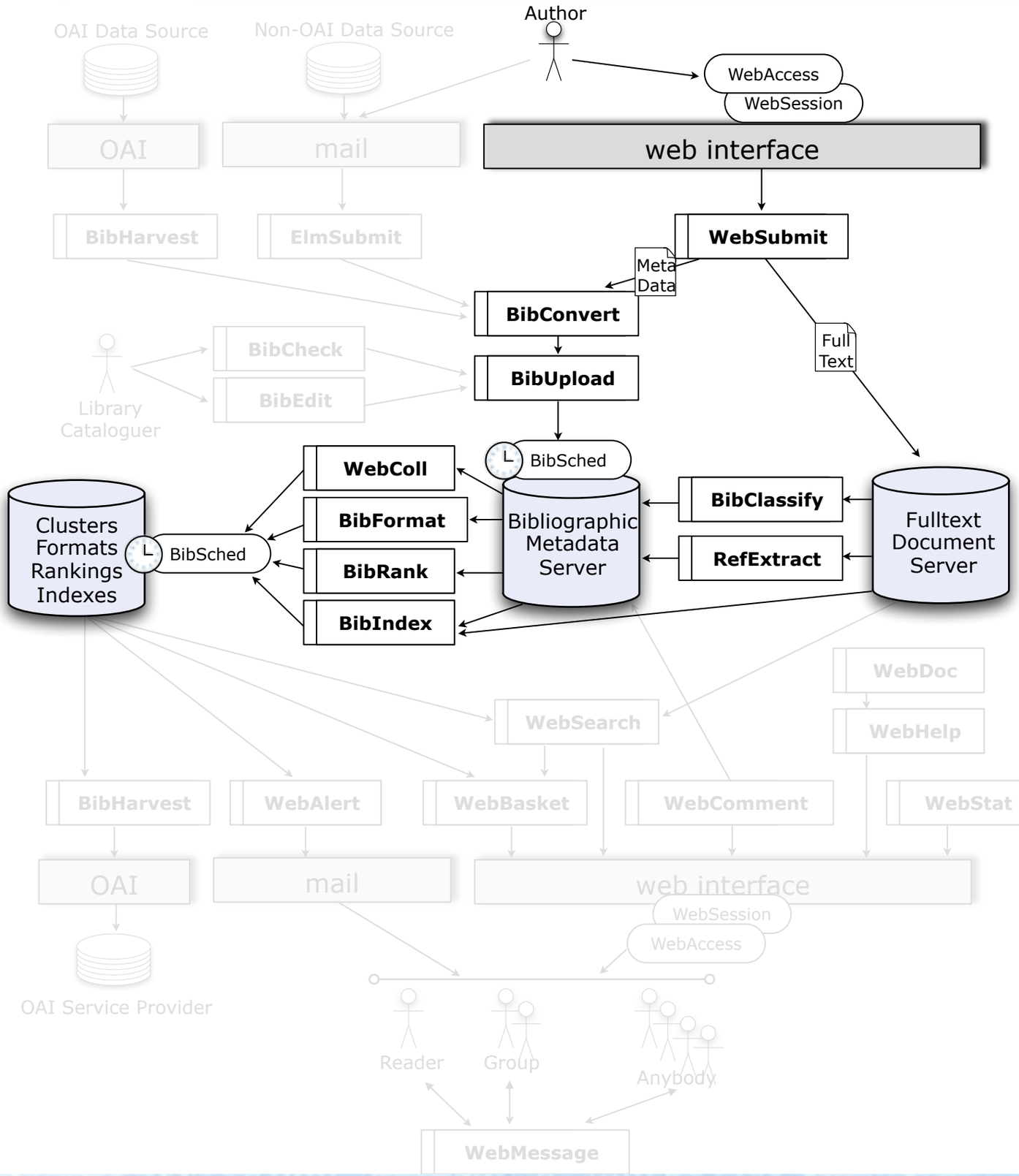
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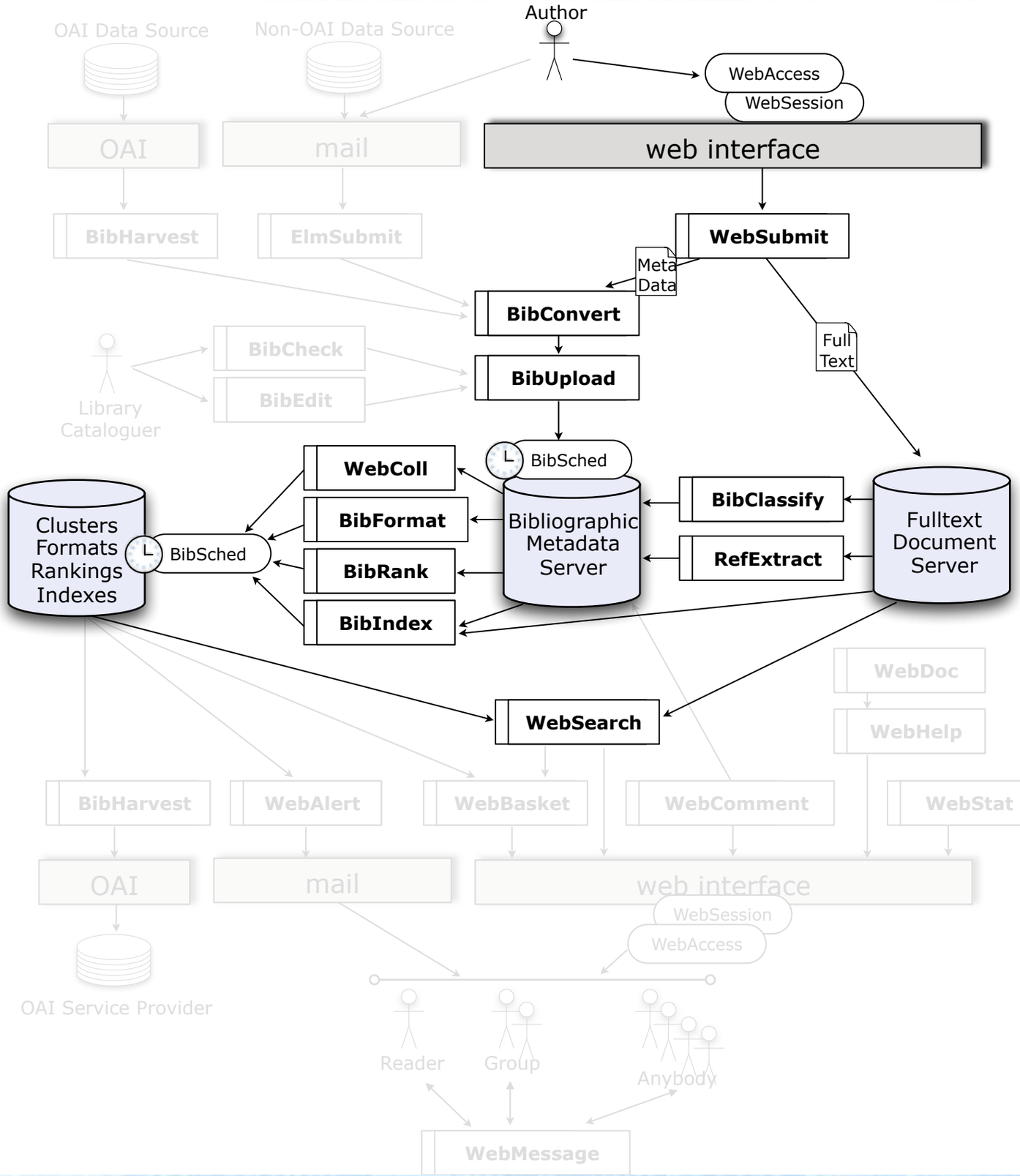
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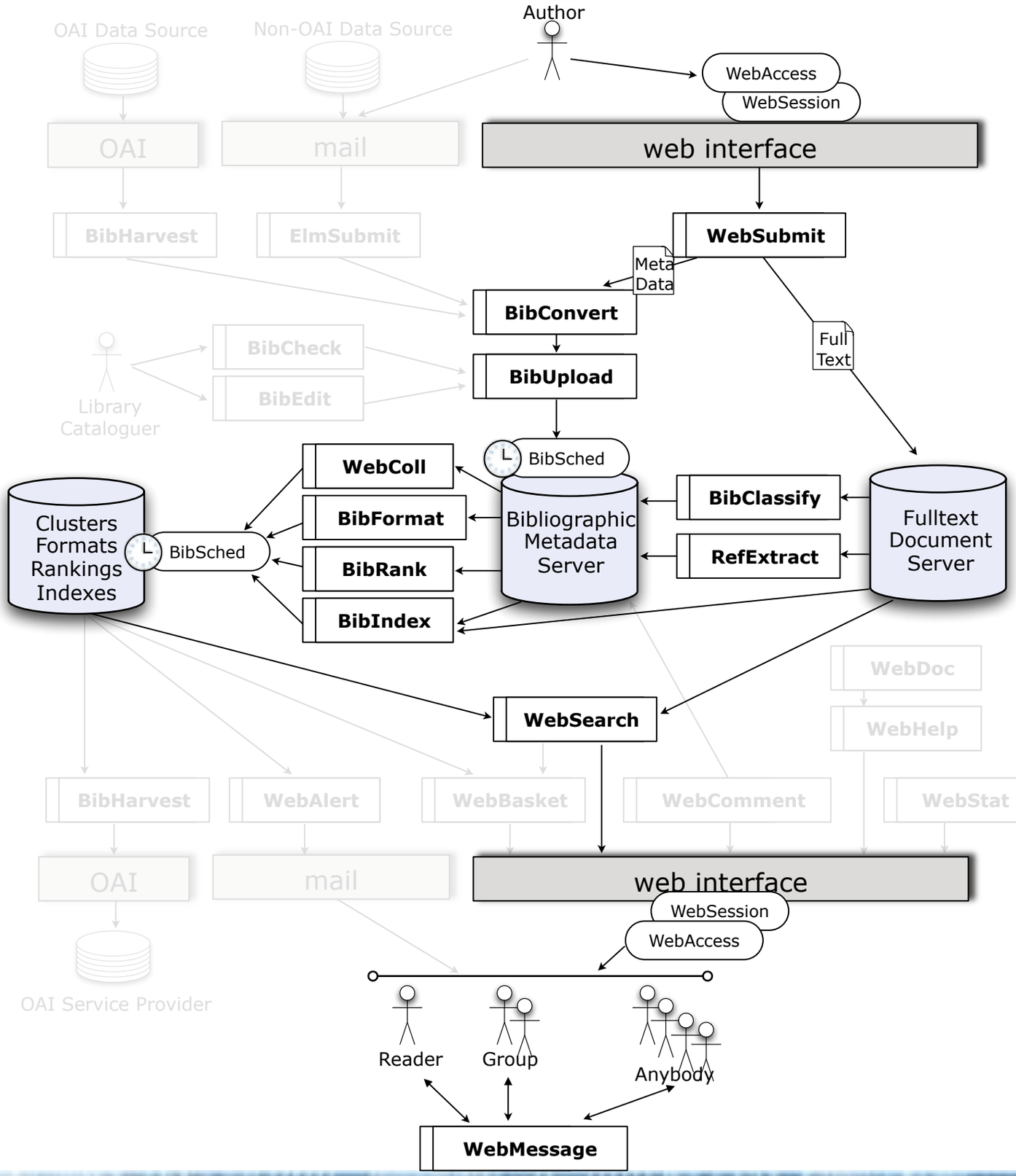
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The architecture

BibConvert
WebStat
WebBasket
BibClassify
WebMessa
Group
WebSearch
BibUpload
BibRecord
WebCol
BibFormat
WebAccess
BibExport
BibRank
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BibEdit
BibMerge
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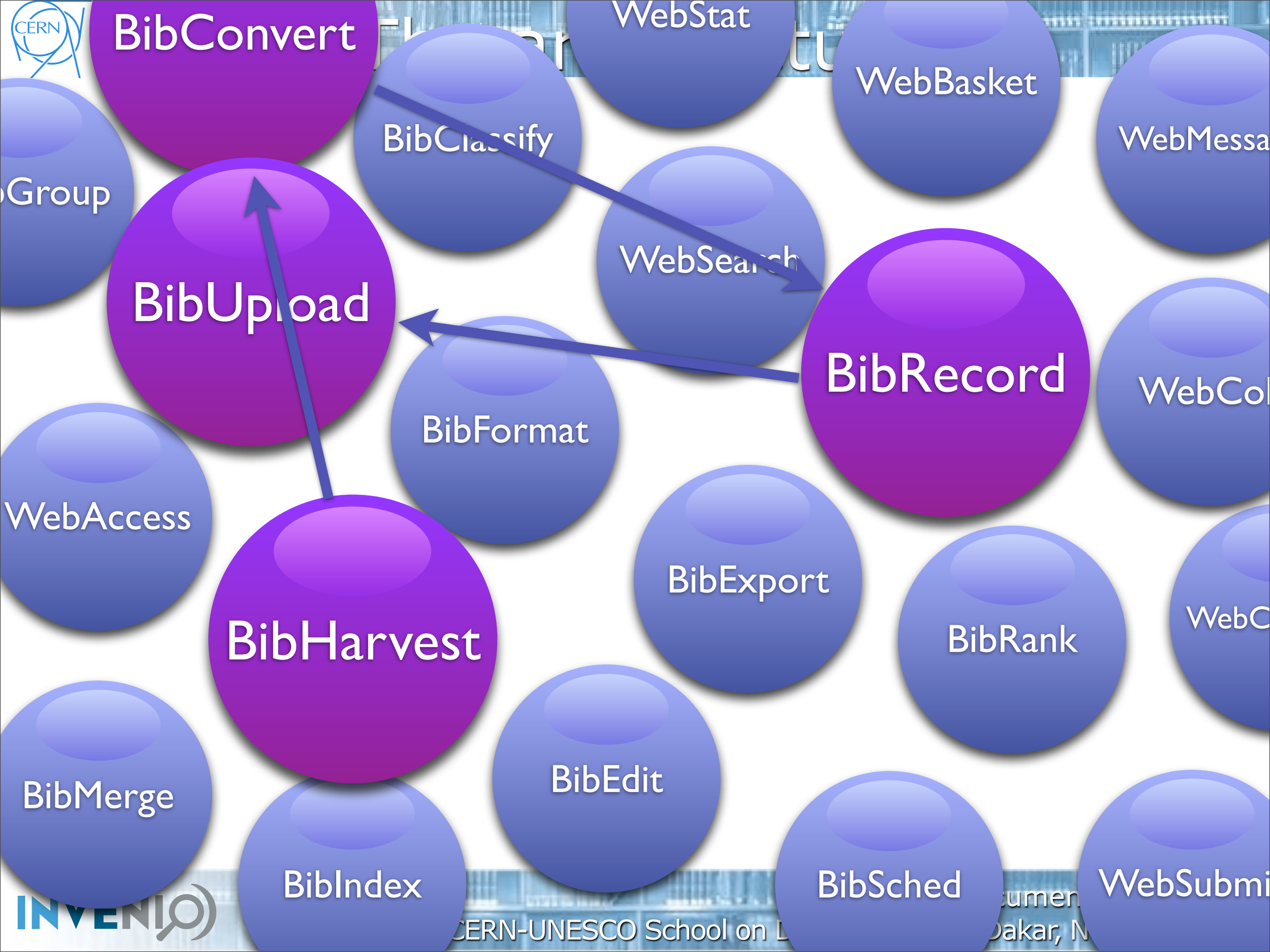
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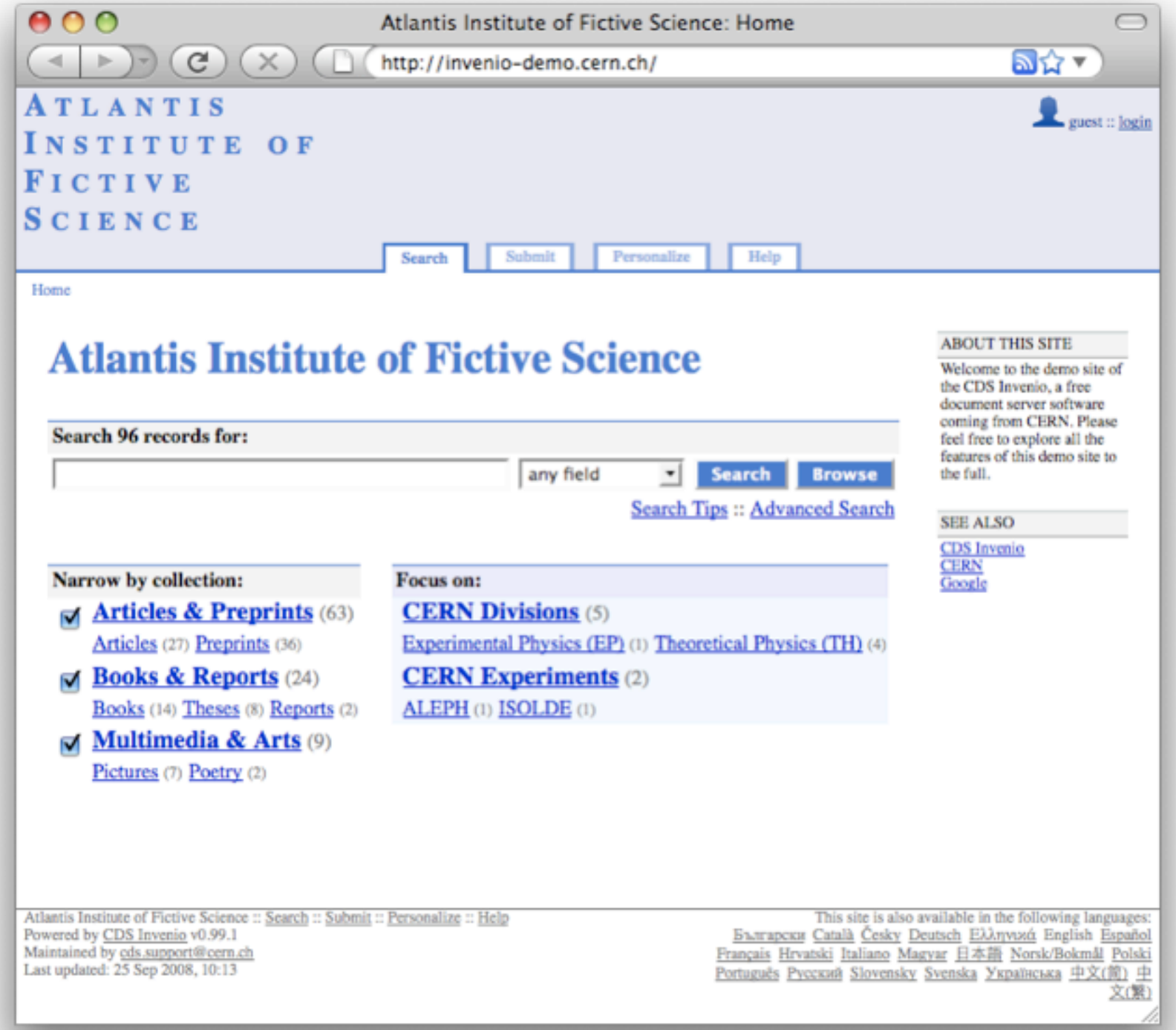
Intégration

&

Personnalisation

Personalisation du style



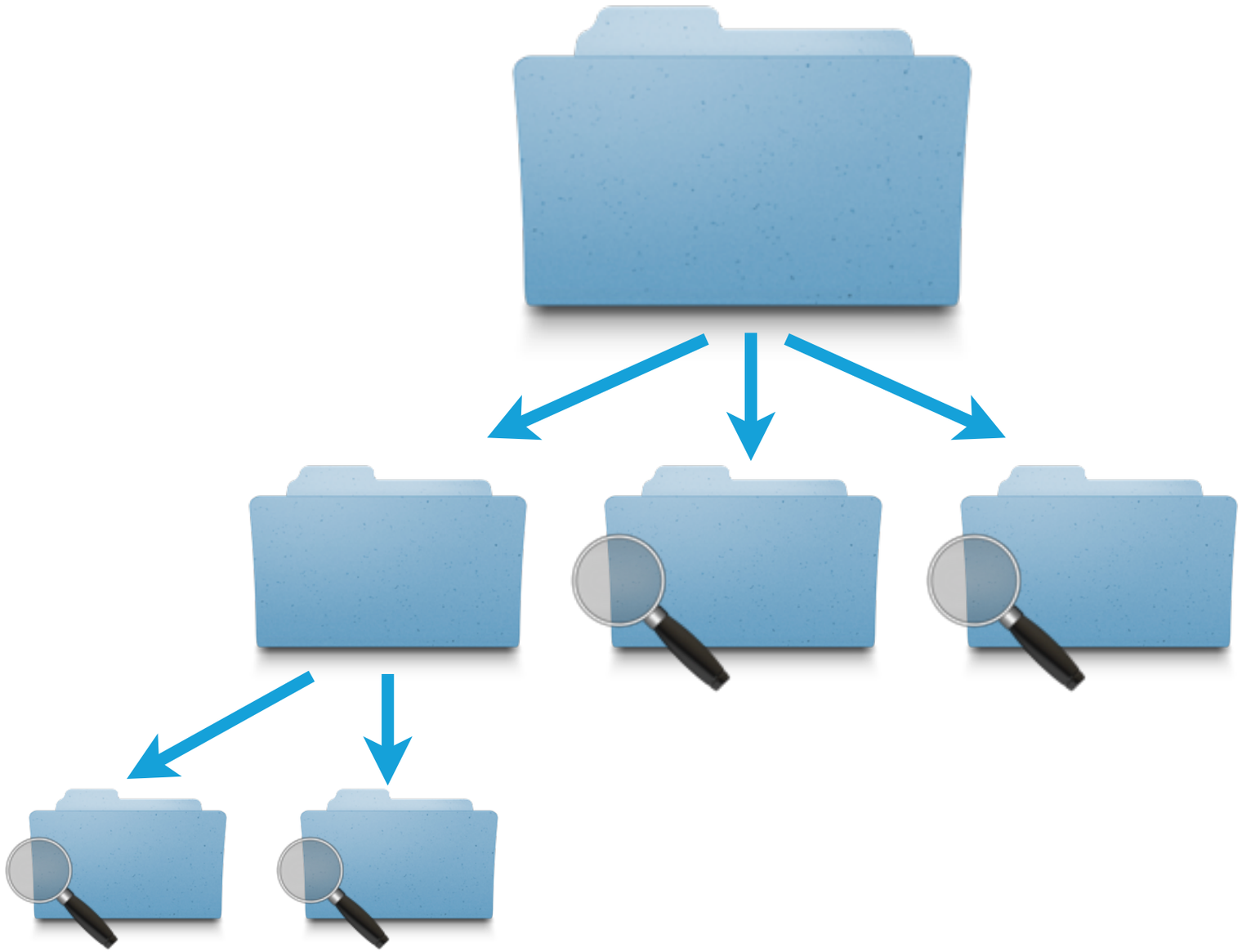
Personalisation du style

Personalisation du style

Personalisation du style

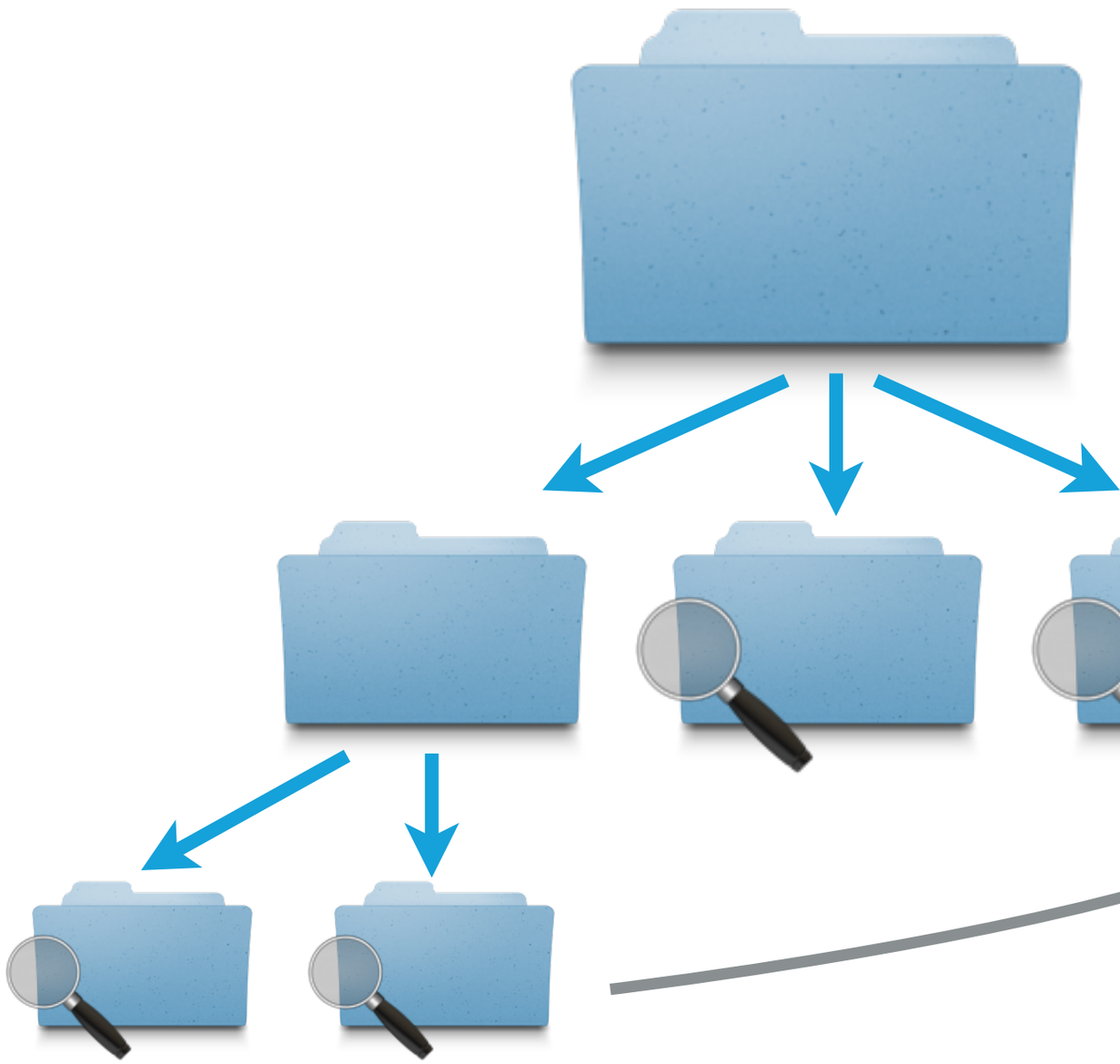
- Système de "templates", avec WebStyle

Arbre des collections

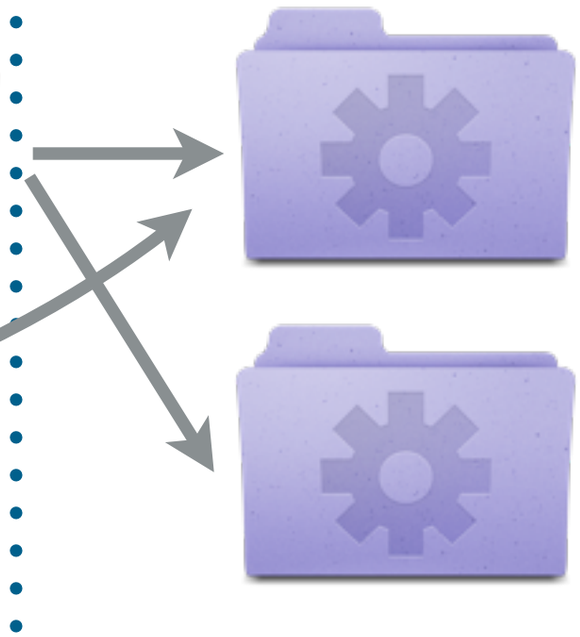


Arbre des collections

Collections normales
("narrow by")



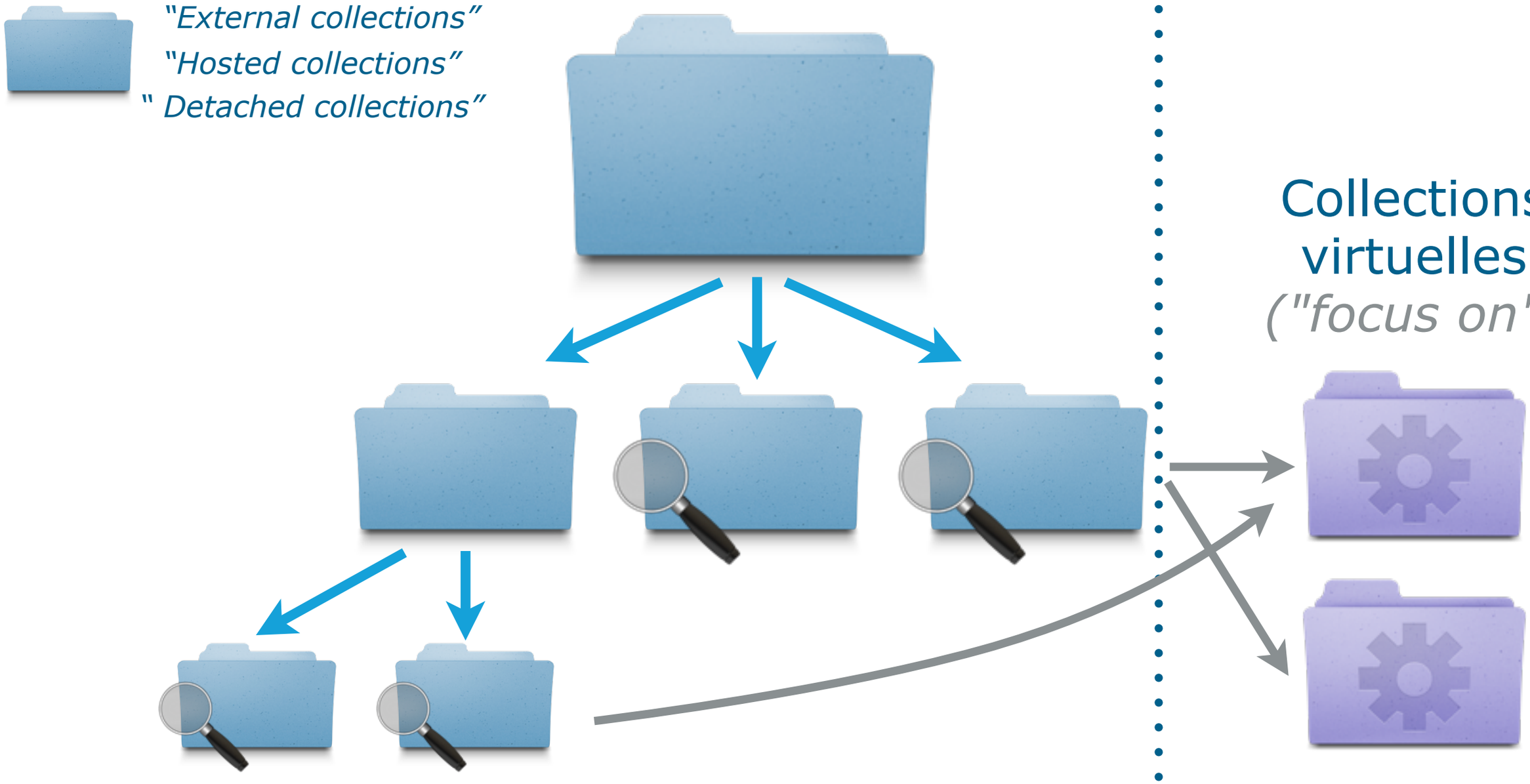
Collections virtuelles
("focus on")



Arbre des collections

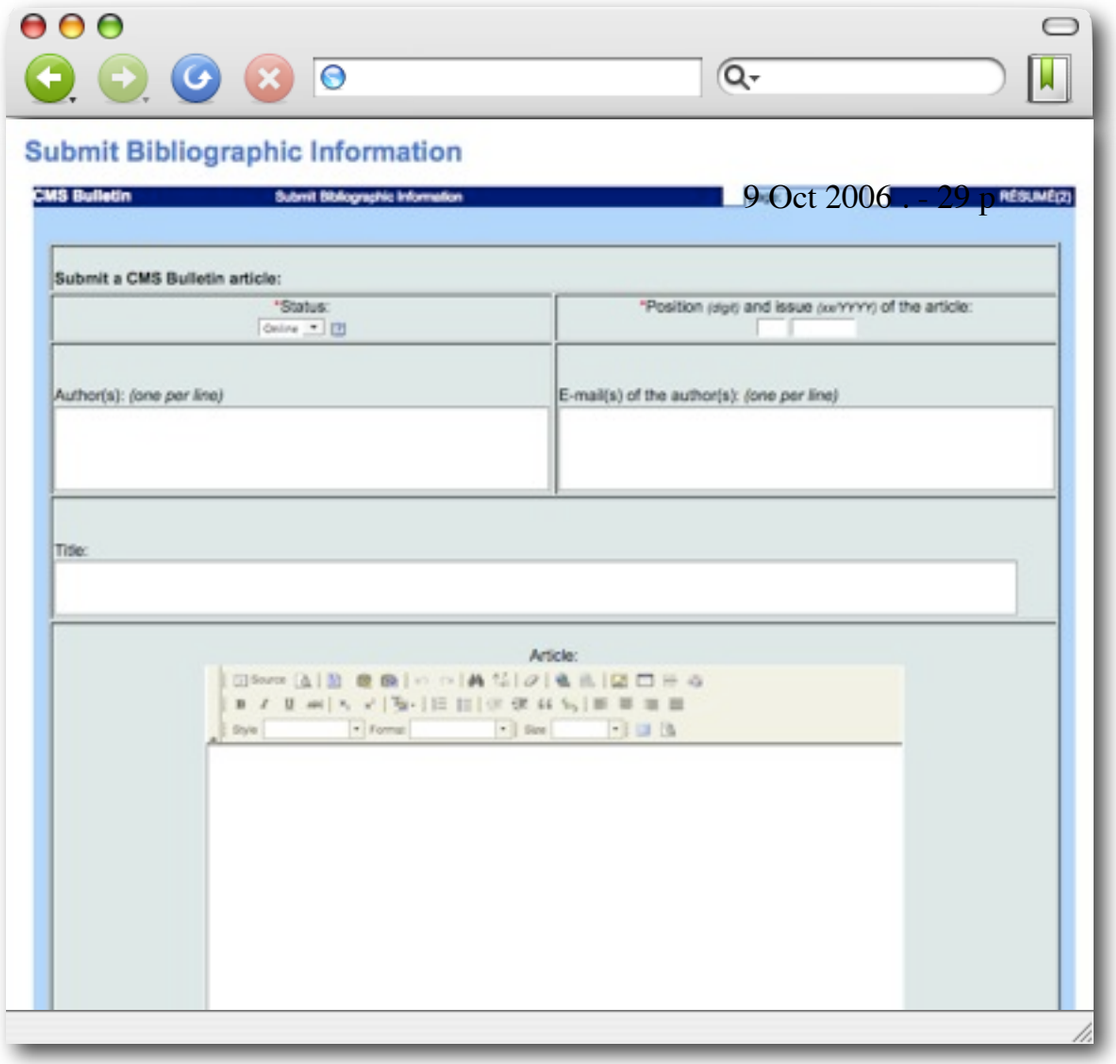
Collections normales
("narrow by")

"External collections"
"Hosted collections"
" Detached collections"



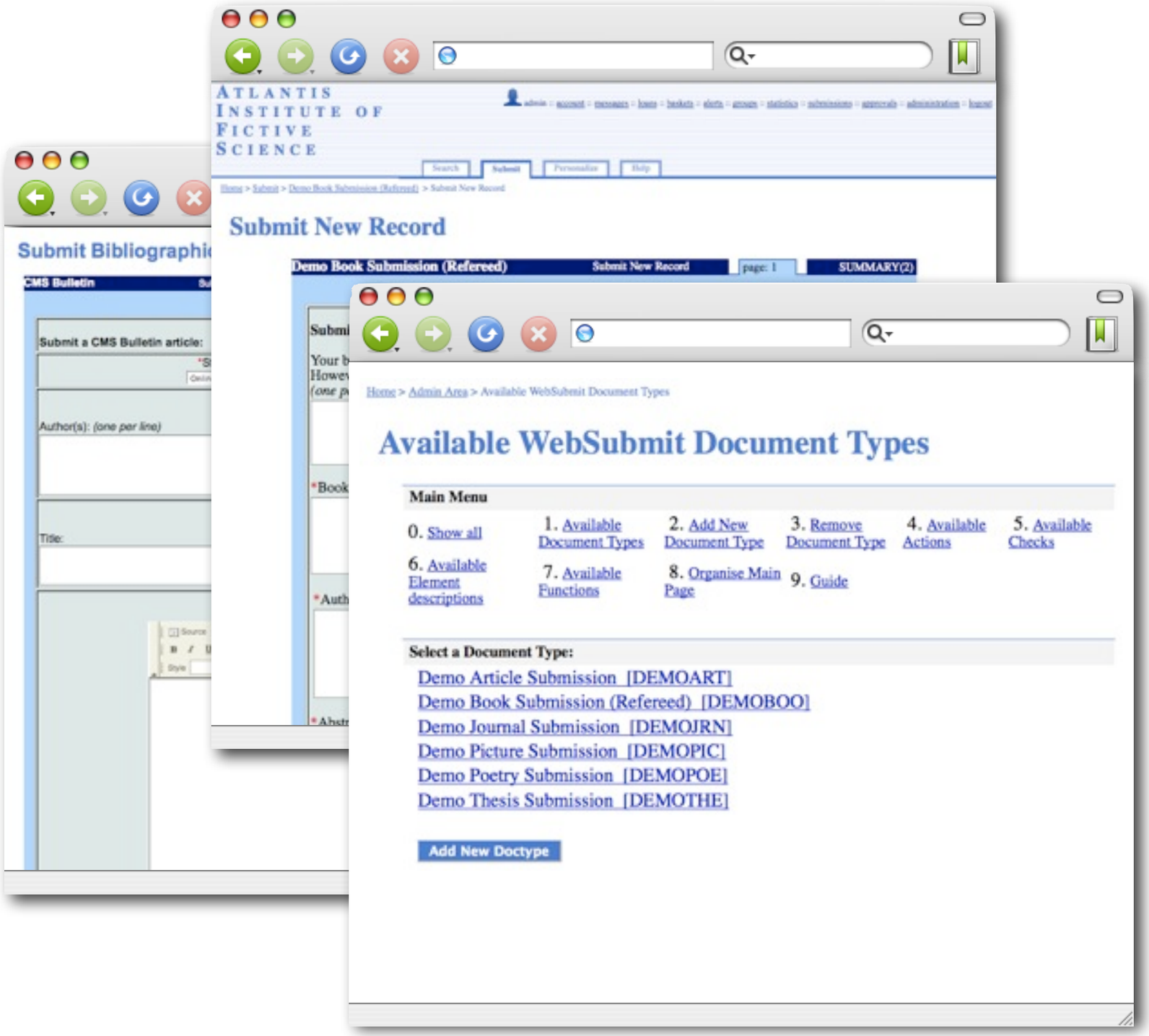
Collections virtuelles
("focus on")

Soumissions



- Formulaires web configurables
- Flux configurables (approbation, envoi d'emails, conversion, stamping, OCR, etc)
- Historiques des révision de métadonnées & fichiers préservés

Soumissions



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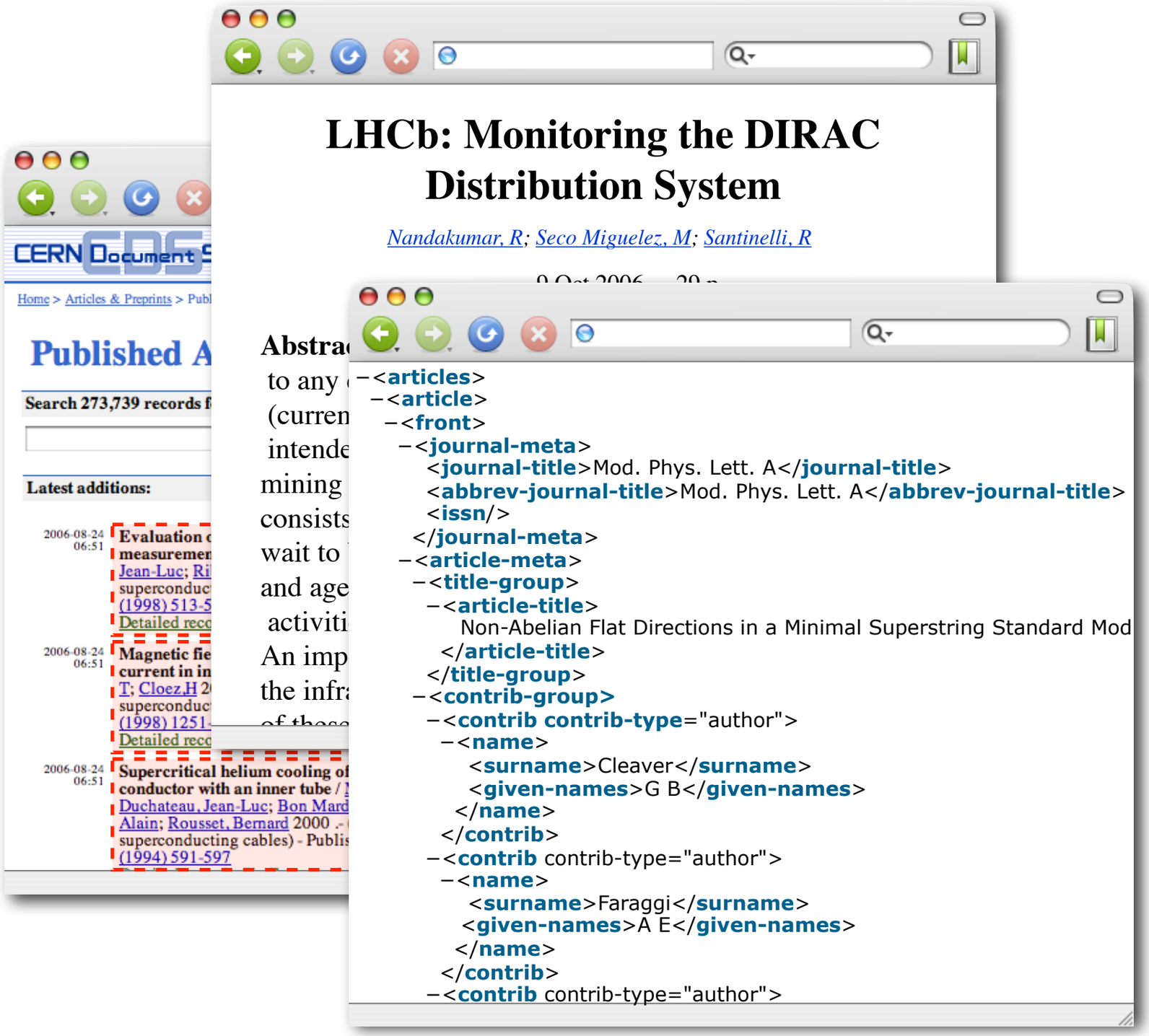
Formatage des records

- simili-HTML
- XSL

Formatage des records



- simili-HTML
- XSL

Authentification

En plus de la gestion natives des comptes utilisateurs, supporte l'ajout de méthodes d'authentification externes (par ex. pour interagir avec les base de donnée institutionnelle des ressources humaines):

- Vérification user/password
- Importation des appartenances à des groupes ou mailing lists
- Info externes des utilisateurs (e.g. téléphone, affiliation...)

Méthodes d'autentifications:

- «Interne»
- Shibboleth
- LDAP
- ... (créer votre plugin!)

Contrôle d'accès

- RBAC (Role Based Access Control)
  http://invenio-demo.cern.ch/help/admin/webaccess-admin-guide
- FireRole (Firewall Like Role Definition)
  http://invenio-demo.cern.ch/help/admin/webaccess-admin-guide#6

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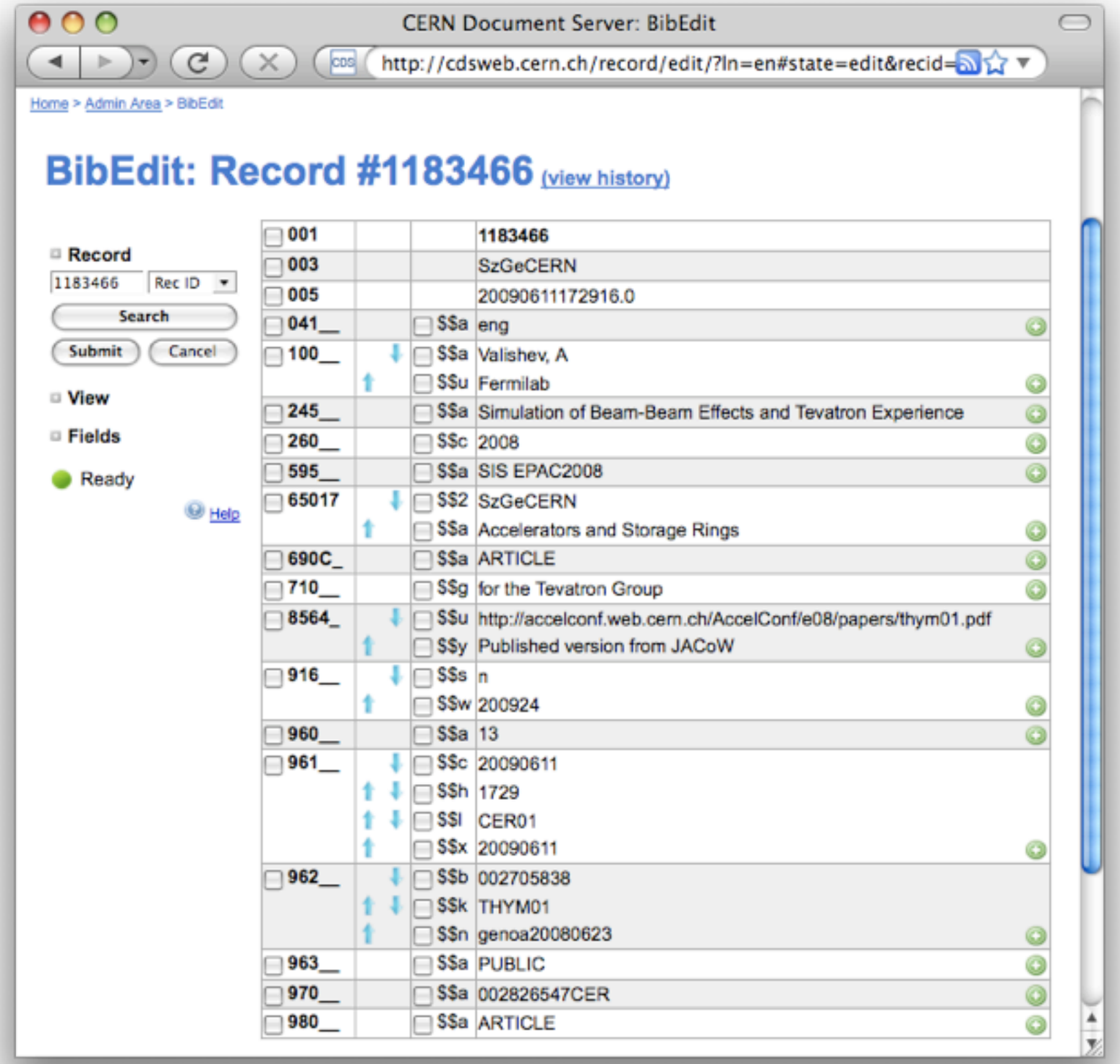
```
allow email /.*cern.ch/,/.*@slac.stanford.edu/
deny group badguys
allow remote_ip "123.0.0.0/24"
deny all
```

Outils

BibEdit


CERN Document Server: BibEdit
http://cdsweb.cern.ch/record/edit/?ln=en#state=edit&recid=
Home > Admin Area > BibEdit
BibEdit: Record #1183466 (view history)
Record
1183466
Rec ID
Search
Submit
Cancel
View
Fields
Ready
Help
001 1183466
003 SzGeCERN
005 20090611172916.0
041__ $$a eng
100__ $$a Valishev, A
$$u Fermilab
245__ $$a Simulation of Beam-Beam Effects and Tevatron Experience
260__ $$c 2008
595__ $$a SIS EPAC2008
65017 $$2 SzGeCERN
$$a Accelerators and Storage Rings
690C_ $$a ARTICLE
710__ $$g for the Tevatron Group
8564_ $$u http://accelconf.web.cern.ch/AccelConf/e08/papers/thym01.pdf
$$y Published version from JACoW
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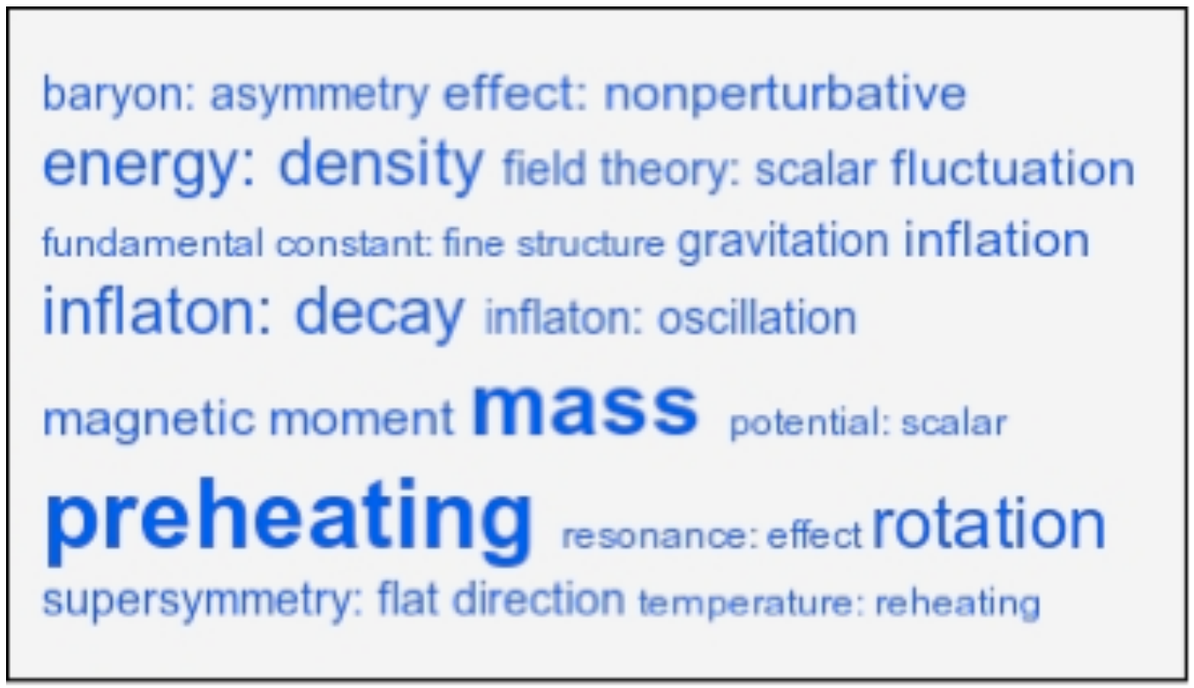
$$x 20090611
962__ $$b 002705838
$$k THYM01
$$n genoa20080623
963__ $$a PUBLIC
970__ $$a 002826547CER
980__ $$a ARTICLE

"Enrichissement" des records

- BibMerge pour réunir records
- BibCheck pour vérifier et corriger des listes de records
- RefExtract pour extraire les références de fichiers PDFs
- BibClassify pour extraire les mots-clefs



Indexation des records

- BibRank
- BibIndex

WebSearch

Create new collection [?]

Default name

Add collection

Attach collection to tree [?]

Attach collection: - select collection -

to parent collection: - select parent collection -

with relationship: - select relationship - Add

Modify collection tree: Atlantis Institute of Fictive Science [?] **Printer friendly version**

Narrow by collection:

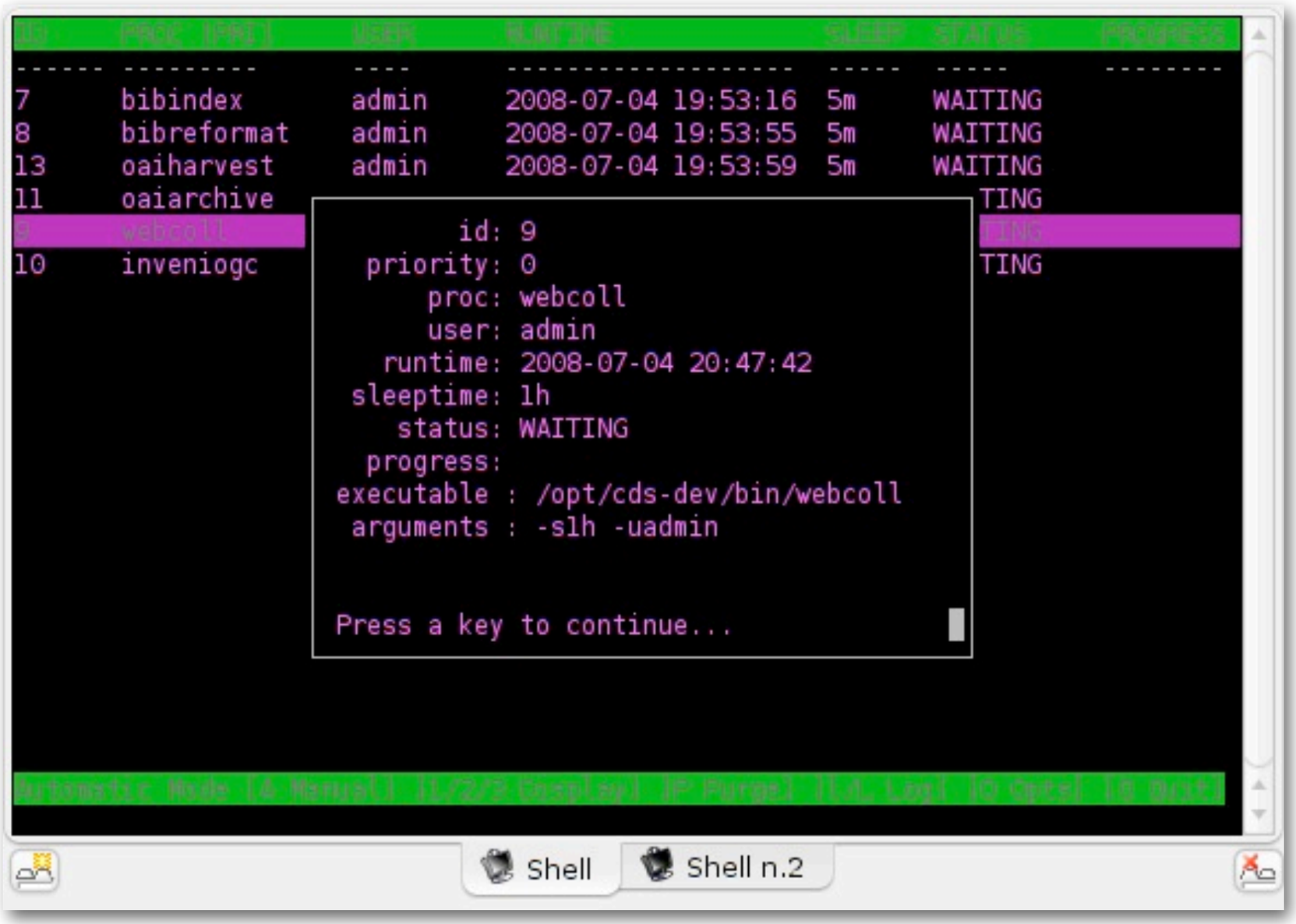
- Atlantis Institute of Fictive Science
  - Articles & Preprints
    - Articles
    - Preprints
  - Books & Reports
    - Books
    - Theses
    - Reports
  - Multimedia & Arts
    - Pictures
    - Poetry

Focus on...:

- Atlantis Institute of Fictive Science
  - *CERN Divisions*
    - Experimental Physics (EP)
    - Theoretical Physics (TH)
  - *CERN Experiments*
    - ALEPH
    - ISOLDE

Webcoll Status [?]

BibSched



Processus de fond:

- Inputting
- Indexation
- Pre-caching
- Monitoring
- Gestion des tâches

Références...

- CDS Invenio homepage: http://invenio-software.org/
- CERN Document Server: http://cdsweb.cern.ch/
- CDS Invenio Demo installation: http://invenio-demo.cern.ch/
- Administrating CDS Invenio: http://invenio-demo.cern.ch/help/admin/
- Hacking CDS Invenio: http://invenio-demo.cern.ch/help/hacking/
- CDS Invenio Wiki: http://twiki.cern.ch/twiki/bin/view/CDS/Invenio

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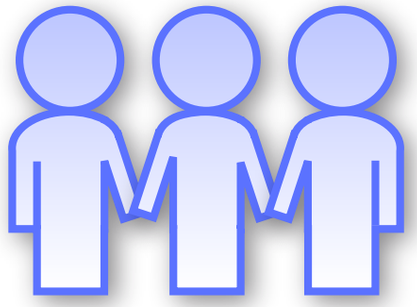
Outils bibliothécaires et admins



Outils collaboratifs

Multilingue

Recherche + navigation

Alertes (emails, RSS)

Commentaires
+
reviewing

Formats multiples

OAI-PMH MARCXML
OpenURL
XSLT EndNote
BibTeX RefWork

Support des standards

"Web journals",
OCR,
et plus~

CERN Document Server

CERN Document Server

CDS | Indico | Bibliothèque | Bulletin | EDMS

Recherche | Soumission | Aide | Your CDS | identification

Accueil

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d'intérêt pour des chercheurs travaillant dans le domaine de physique des particules et les domaines similaires.
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Conseils de recherche :: Recherche avancée

NEW CERN, DESY, FERMILAB and SLAC are launching INSPIRE, the new HEP Literature Database.

NEW Check out articles, books, presentations and videos related to Georges Charpak

Limiter par collection:

- **Articles & Preprints** (933,350)
  Published Articles (320,594) Preprints (551,503) Theses (17,074)
  Reports (5,585) CERN Notes (17,952) Committee Documents (23,080)
- **Books & Proceedings** (72,750)
  Books (46,464) Proceedings (16,992) Standards (9,298)
- **Presentations & Talks** (17,849)
  Conference Announcements (15,158) Academic Training Lectures (629)
  Summer Student Lectures (726) General Talks (1,331) Videotapes (292)
- **Periodicals & Progress Reports** (2,379)
  Periodicals (2,137) Progress Reports (267)
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http://cdsweb.cern.ch

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CERN Document Server:

- Archive institutionnelle et thématique HEP
- > 1 million de records
- 751 collections
- 25'000 recherches par jour
- 2'417 alertes emails souscrites par 1'615 utilisateurs
- ~12'000 abonnements à des flux RSS
- 6'245 paniers, dont 481 partagés, créés par 4'575 utilisateurs, couvrant 107'421 records distincts
- 24'985 utilisateurs enregistrés
- ~300 nouveaux documents par jour
- 91 workflows de soumissions web
- 1 serveur "web" + 1 serveur DB

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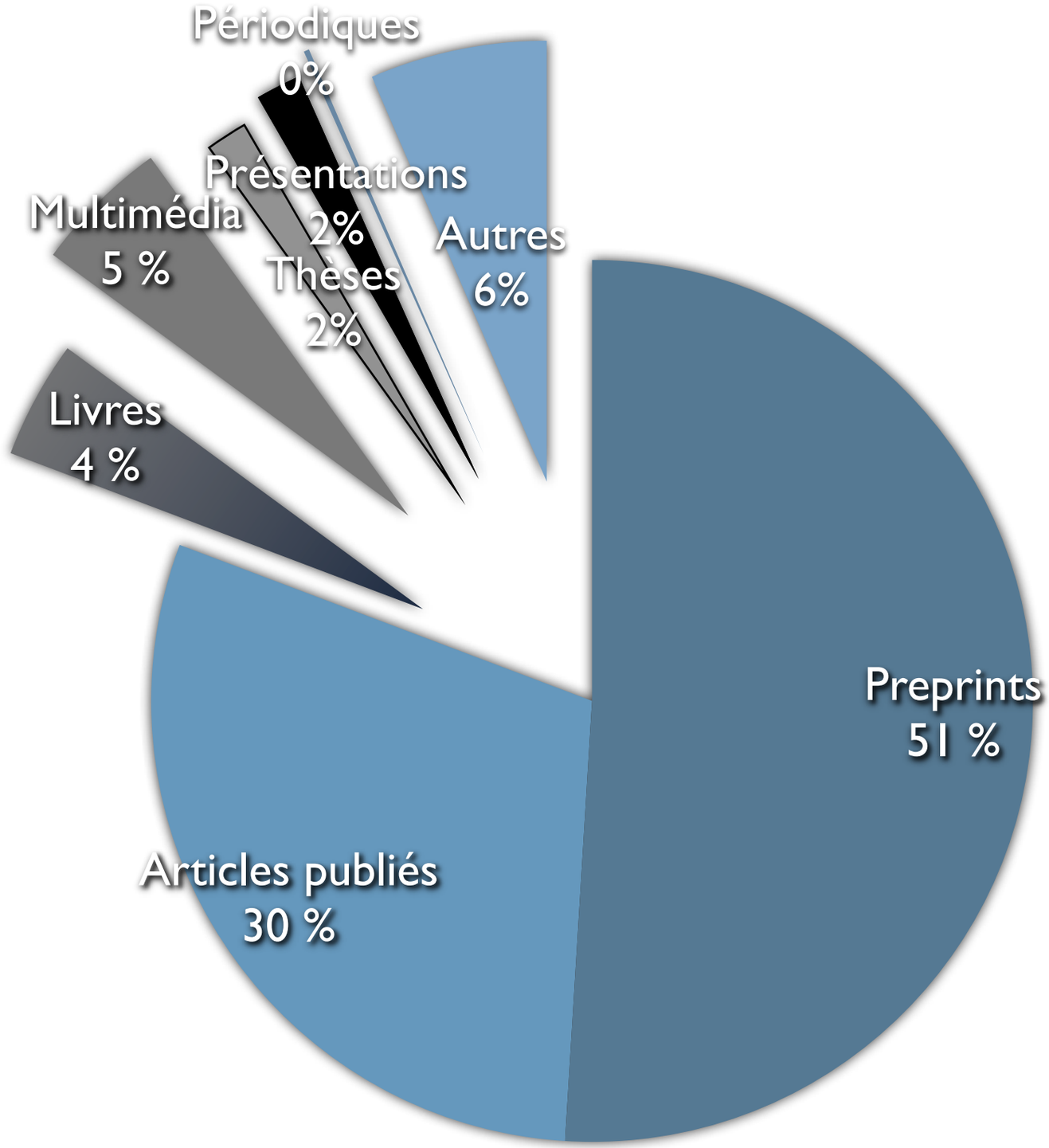

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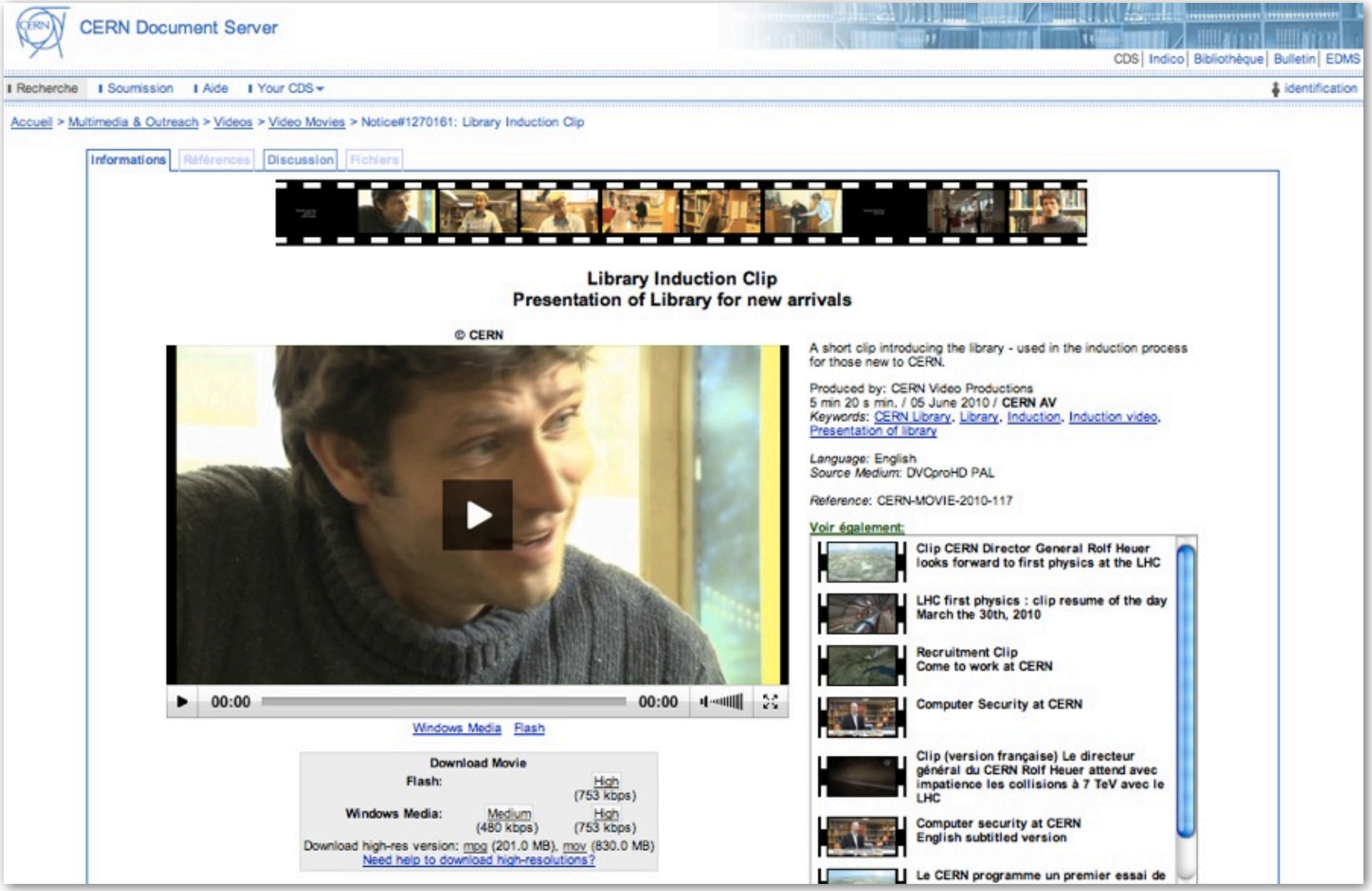

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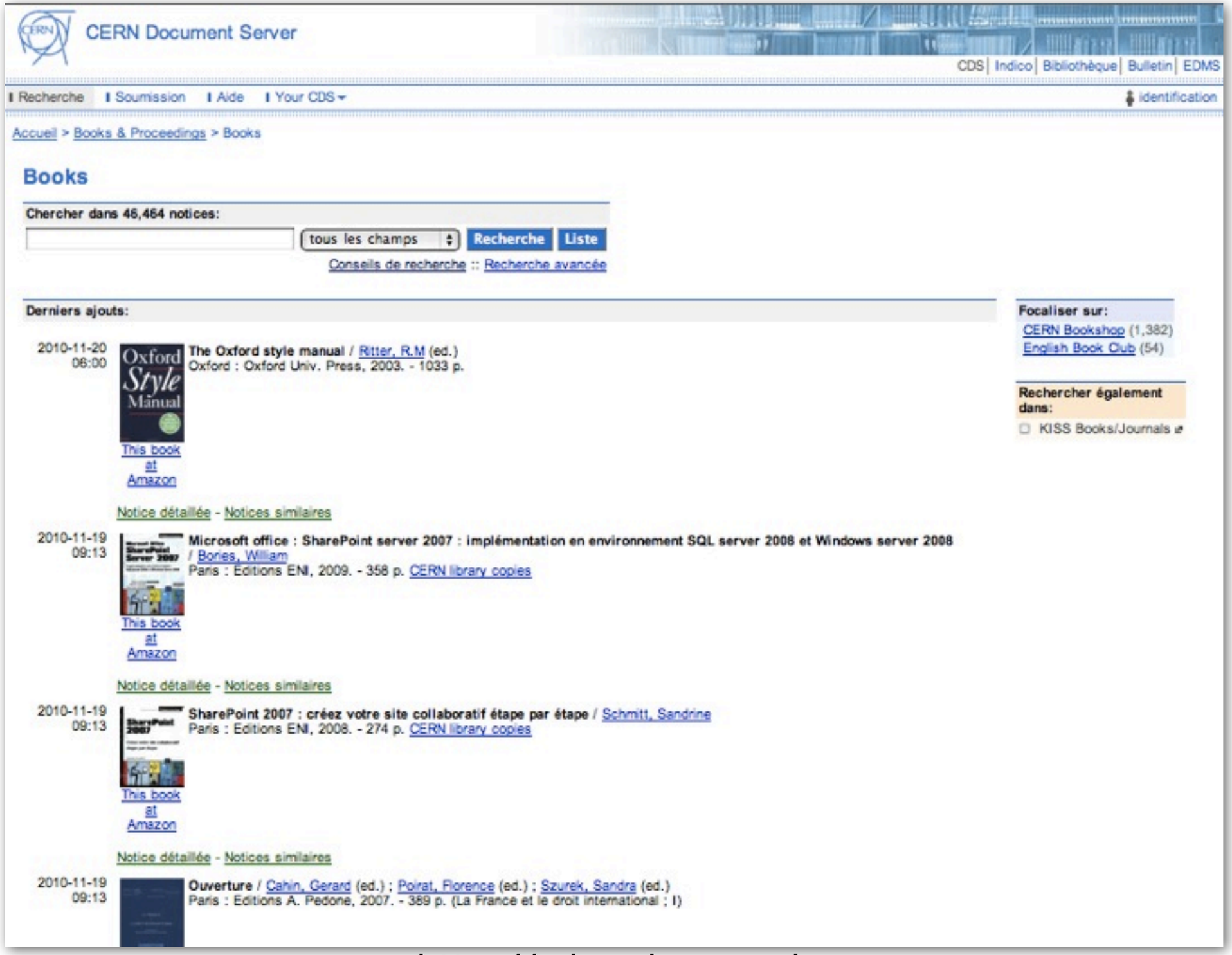

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Official Press Brochures **131** notices trouvées 1 - 10 aller vers la notice: 1

1.

Access to files

Reference: CERN-Brochure-2010-008-Ita
Email: Christiane.Lefevre@cern.ch
Created: 2010. -4 p
Creator: Lefevre, C

English
ATLAS is the largest detector at the LHC, the most powerful particle accelerator in the world. ATLAS is a multi-purpose detector, designed to throw light on fundamental questions such as the origin of mass and the nature of the Universe's dark matter.
Français
ATLAS est le plus grand détecteur du LHC, l'accélérateur de particules le plus puissant au monde. ATLAS est un détecteur polyvalent conçu pour répondre à de nombreuses questions fondamentales comme celle de la masse ou de la matière sombre.

Notice détaillée - Notices similaires

2.

Access to files

Reference: CERN-Brochure-2010-006-Dan
Email: Christiane.Lefevre@cern.ch
Created: 2010. -4 p
Creator: Lefevre, C

English
A presentation of the largest and the most powerful particle accelerator in the world, the Large Hadron Collider (LHC), which started up in 2008. Its role, characteristics, technologies, etc. are explained for the general public.
Français
Une présentation du plus grand et du plus puissant des accélérateurs de particules, le Grand collisionneur de hadrons (LHC), qui a été introduit dans le service en 2008. Son rôle, son fonctionnement, ses technologies, etc. sont expliqués pour le grand public.

Notice détaillée - Notices similaires

3.

Access to files

Reference: CERN-Brochure-2010-005-Dan
Email: Christiane.Lefevre@cern.ch
Created: 2010. -4 p
Creator: Lefevre, C

English
A simple presentation of CERN, the European Organization for Nuclear Research, its research and related technological innovations, with a historical time line of major achievements.
Français
Une présentation du CERN, l'Organisation européenne pour la recherche nucléaire, de ses outils et recherches, des innovations technologiques qui en découlent, avec des repères historiques.

Notice détaillée - Notices similaires

4.

Reference: CERN-Brochure-2010-008-Dan
Email: Christiane.Lefevre@cern.ch
Created: 2010. -4 p
Creator: Lefevre, C

http://cdsweb.cern.ch

http://cdsweb.cern.ch/journal/CERNBulletin

Programme technique

Lundi

III	Introduction à Invenio
IV(p)	Introduction aux outils en ligne de commande
...	*Préparation à l'installation d'Invenio*

Mardi

III + IV (p)	Installation d'Invenio
...	*Configuration d'Invenio*

Mercredi

I	Invenio pour l'utilisateur
II(p)	Invenio pour l'administrateur et pour le bibliothécaire - part 1

Jeudi

II	Langages "web"
IV(p)	Invenio pour l'administrateur et pour le bibliothécaire - part 2

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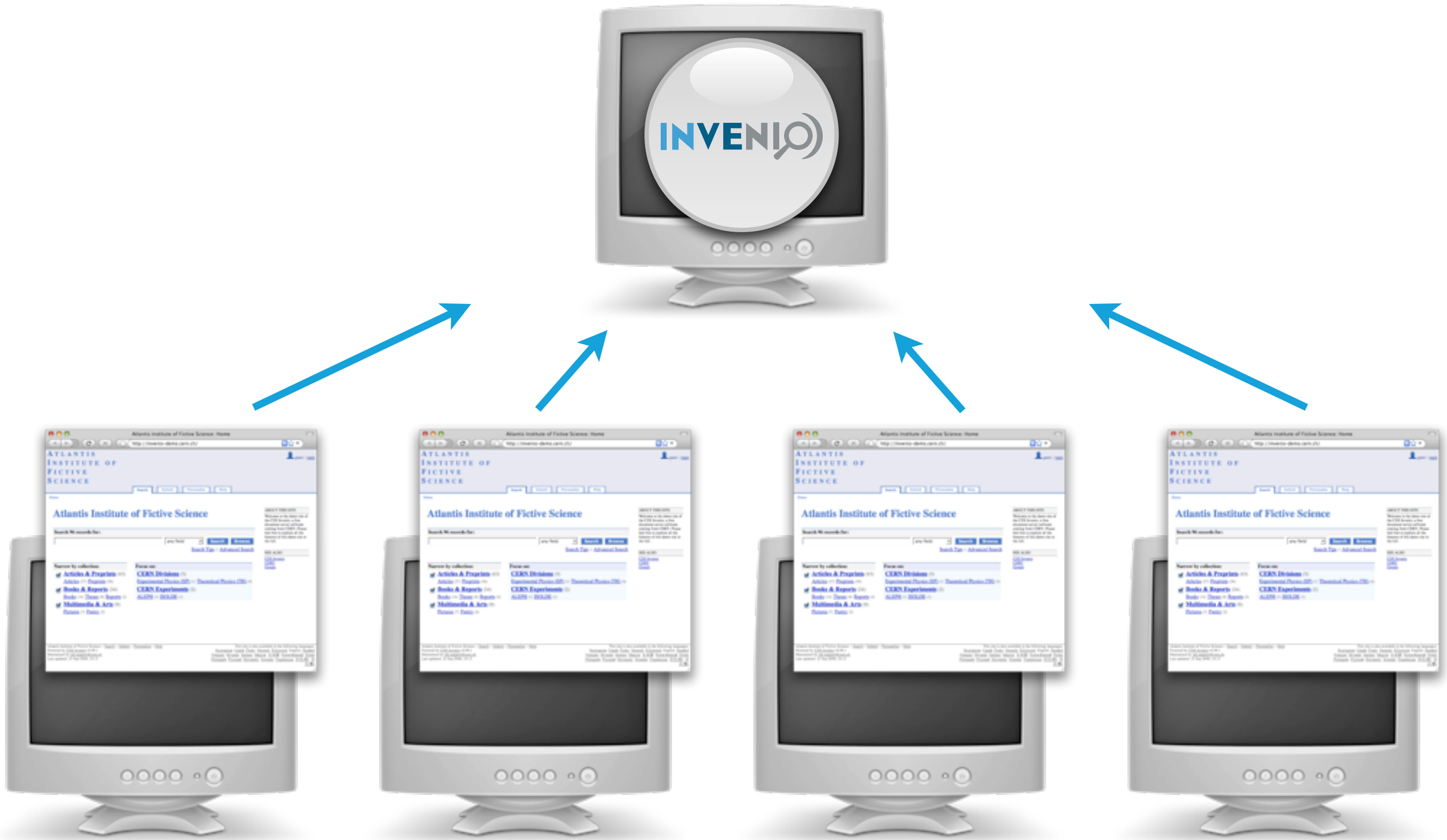

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CERN Document Server team

CERN-UNESCO School on Digital Libraries, Dakar, November 2011