

CISMeF: a search tool based on “encapsulated” MeSH thesaurus

Integration with HIDDEL

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Introduction

- ★ The objective of CISMeF (Catalog and Index of French-speaking resources) is to assist the health professional & lay people during the search for electronic information available on the Internet. CISMeF covers healthcare disciplines and medical sciences.
- ★ CISMeF was a project originally initiated by Rouen University Hospital (RUH).
- ★ URL: <http://www.chu-rouen.fr/cismef>
- ★ CISMeF began in February 1995
- ★ Doc'CISMeF in 2000: creation of a powerful generic search tool using the CISMeF semi-informal ontology
- ★ URL: is <http://doccismef.chu-rouen.fr/>

Introduction (cont.)

- ★ Three priority axes:
 - evidence based medicine,
 - teaching material and
 - patient information.
- ★ 10,000 resources included
- ★ CISMef team in 2002: N= 9 (1 medical librarian, 3 deputy medical librarians + two medical informaticians + 1 computer scientist + 2 PhD students) + students from engineering school
- ★ Budget \approx 200 K€/y; 70% RUH
- ★ 12 grants in the last five years for L@STICS

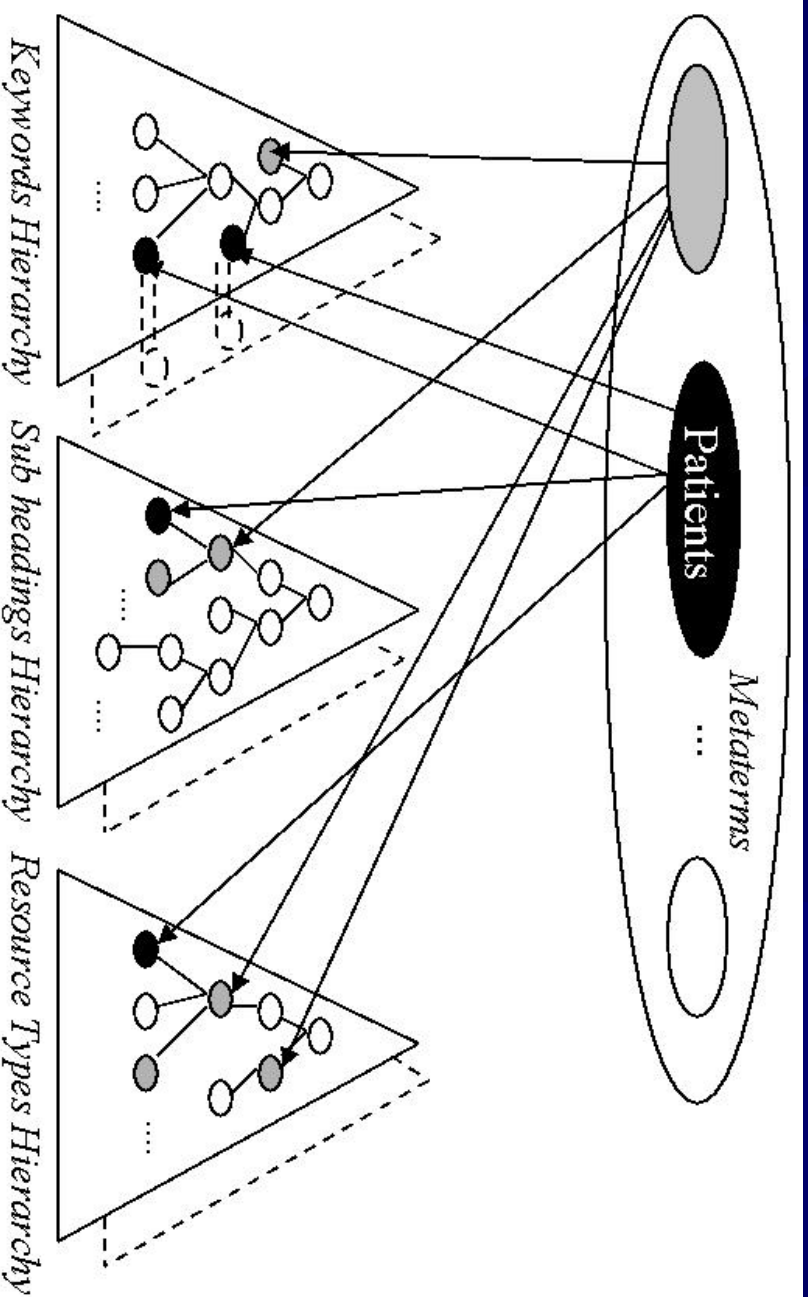
Update of the CISMeF database

- ✦ Methodology in 4 steps
 - ✦ resource collection
 - ✦ filtering, based on Net Scoring (49 criteria)
 - ✦ description,
 - ✦ Indexing (+ “super-indexing”)

CISMeF semi-informal ontology

- ★ Two standard tools for organising information:
 - the **MeSH** (Medical Subject Headings) thesaurus from the US National Library of Medicine
 - French translation of the MeSH thesaurus, performed by the French Medlars Centre, INSERM
 - Several metadata element sets
 - the **Dublin Core** metadata format + CISMeF specific fields
 - For teaching resources, **IEEE 1484 LOM** metadata format
 - 11 elements of the LOM Educational category => DC.Education
 - For evidence-based medicine resources, CISMeF specific fields: level of evidence + method to evaluate it
 - The **HIDDEL** metadata set will be used to enhance transparency, trust and quality of health information on the Internet.

CISMeF semi-informal ontology (cont.)



CISMeF & Dublin Core

- ✦ CISMeF uses ten following elements from the 15 of Dublin core metadata project: title, author or creator, subject and keywords, description, publisher, date, resource type, format, identifier, and language.
- ✦ Following fields are specific to CISMeF: institution, city, province or state, country, target, cost of access, type of sponsorship

DC elements used in the metadata of each CISMeF MESH page

maladieslildebutageadulte1 - Bloc-notes

Fichier Edition Recherche 2

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DC elements used in the metadata of each CISMef resource page

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Fichier Edition Rechercheur 2
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<link rel="schema.F-MESH" href="http://dicdoc.kb.inserm.fr:2010/basismesh/mesh.html">
<link rel="schema.IMT" href="http://www.isi.edu/in-notes/iana/assignments/media-types/media-types
<link rel="schema.ISO8601" href="http://www.w3.org/TR/NOTE-datetime">
<link rel="schema.MESH" href="http://www.nlm.nih.gov/mesh/meshhome.html">
<link rel="schema.RFC1766" href="http://www.ietf.org/rfc/rfc3066.txt">
<link REL="StyleSheet" HREF="/stylesheetsnl.css" TYPE="text/css">
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</head>
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Use of HIDDEL in CISMeF

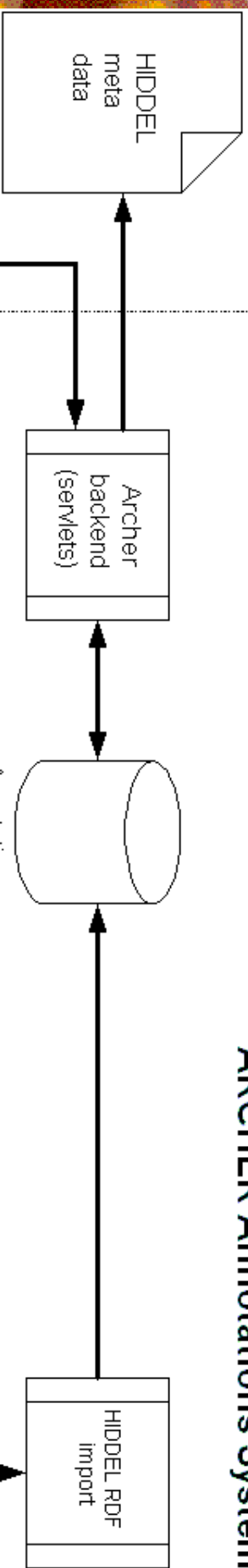
- ★ As a quality-controlled subject gateway, CISMeF will use HIDDEL only as a third-party (level 2)
- ★ HIDDEL includes Dublin Core metadata set
- ★ These elements will be repeated in the two metadata element sets to allow multiple interoperability.
- ★ Some HIDDEL elements were inspired by the Net Scoring previously used by CISMeF ; some are already present in the CISMeF database (e.g. HIDDEL.policies).

Use of HIDDEL in CISMeF (cont.)

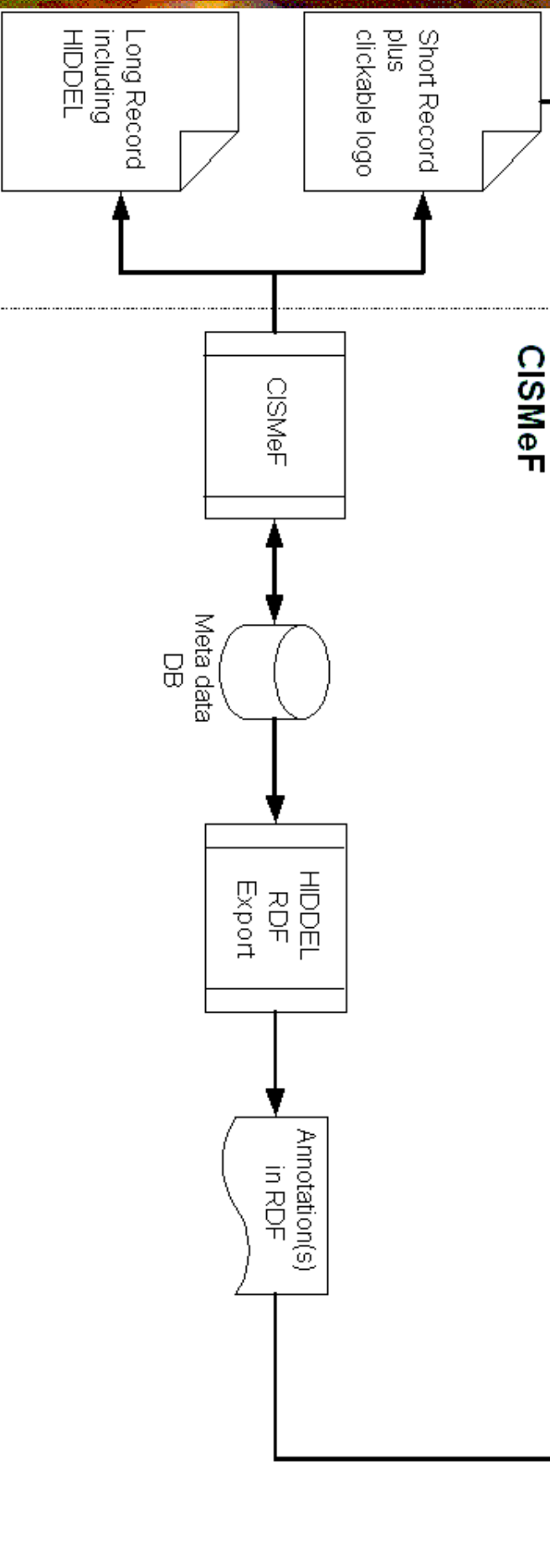
- ✦ First step: selection of HIDDEL language to be included in CISMeF
- ✦ Inclusion of HIDDEL into CISMeF database
- ✦ Modification of the metadata generation
 - ✦ RDF into HTML to become more easily machine-processable

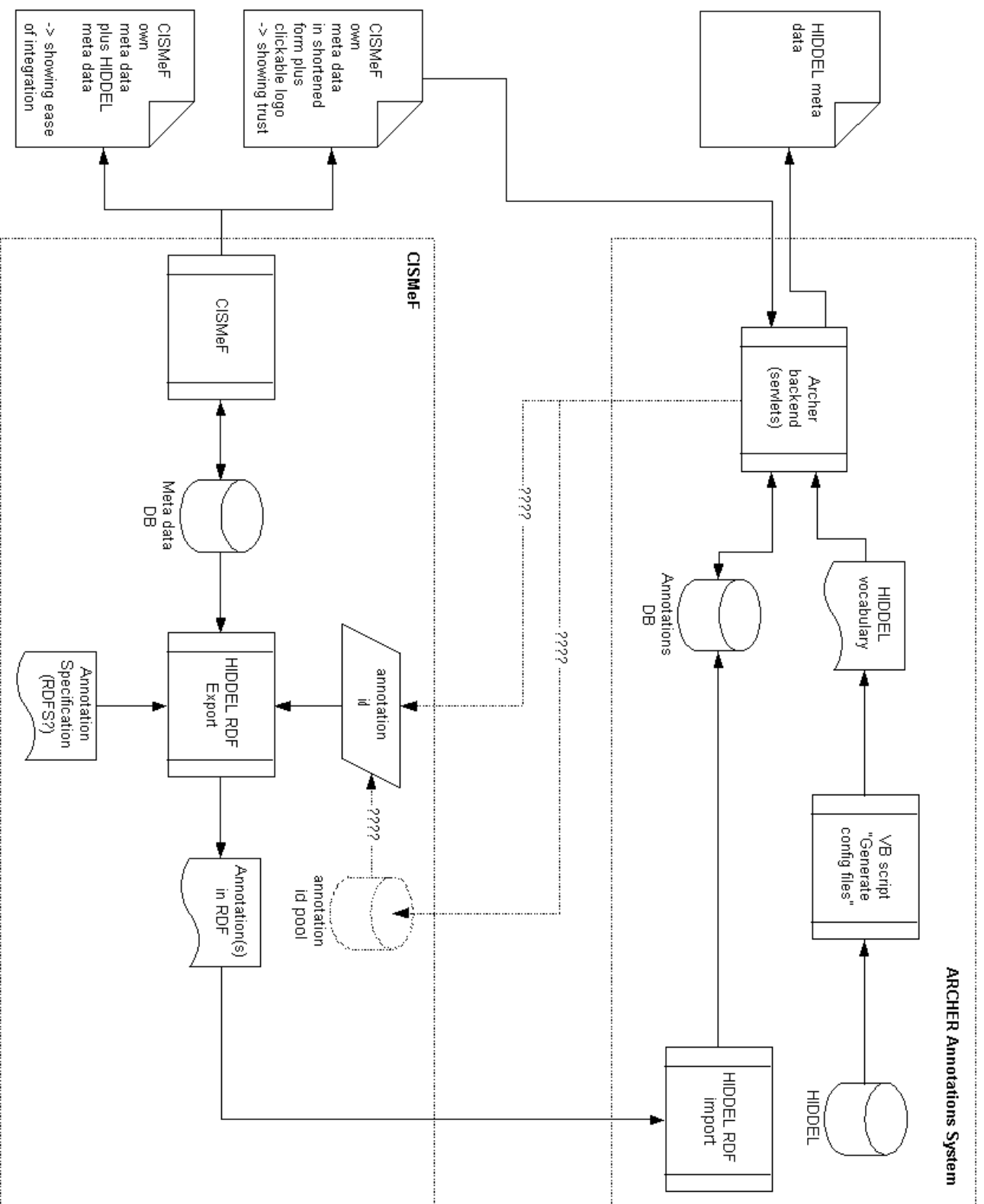
Archer and CISMeF

ARCHER Annotations System



CISMeF





Connecting ARCHER and CISMef