



***CRITERIA FOR THE SELECTION OF A
SEMANTIC REPOSITORY FOR MANAGING
SKOS DATA***

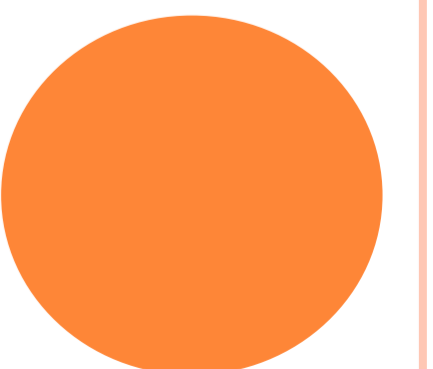
CONVEGNO AIB CILW 2016

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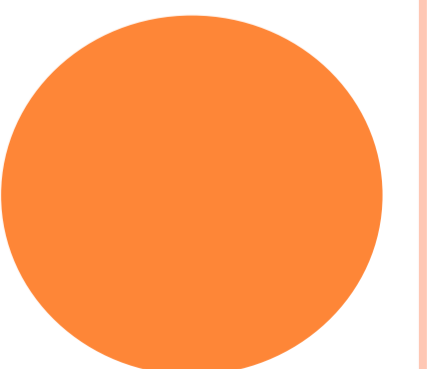
MOVING TO SKOS...

- Two sides of Linked Open Data projects:
 - Moving online, convert to RDF, our data.
 - Give other people the possibility of using your data (we mean “other software applications”).
- Today, most organizations focus on data conversion and publishing
 - Convert Thesauri, Classification schemas or KOS to SKOS.
 - The results of this conversion are published...., as HTML data..., not reusable by machines.
 - Set up SPARQL end-points, that are hard to use
 - language syntax and
 - Complex, technical integration of “consumer applications” with SPARQL end points in specific context (e.g. non-Java desktop apps)
 - The last two points are done with the help of RDF repository/DB tools.

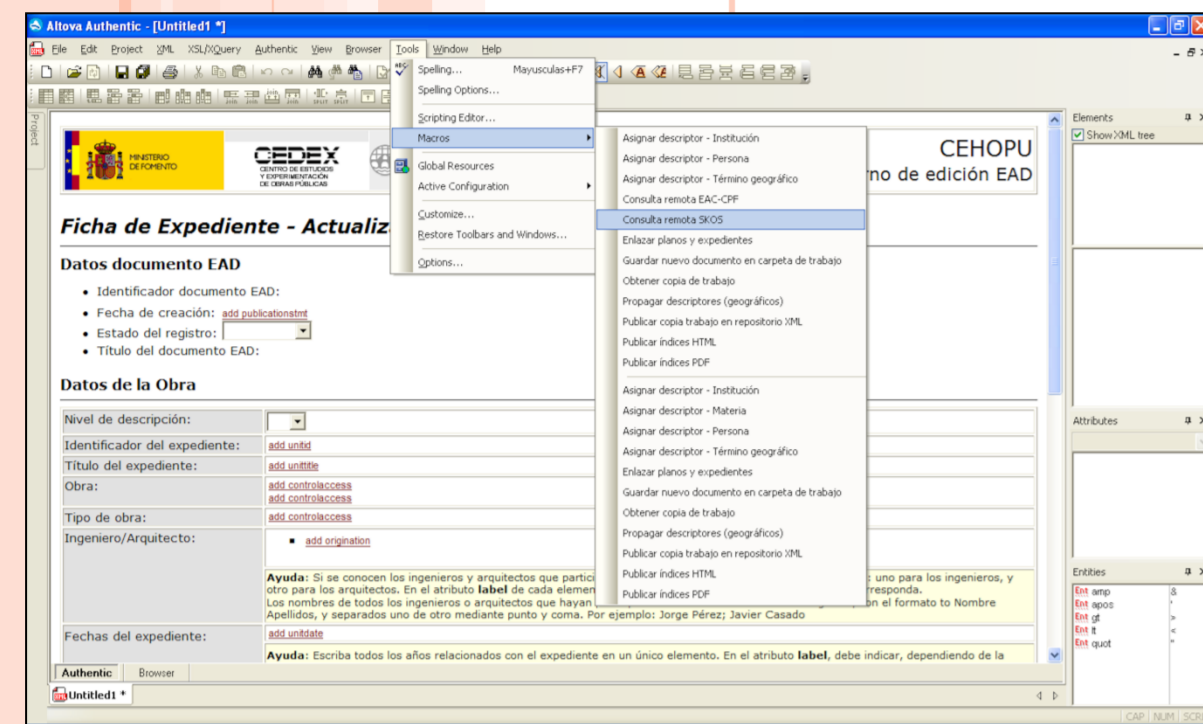


TOOLS FOR MANAGING SW-DATA

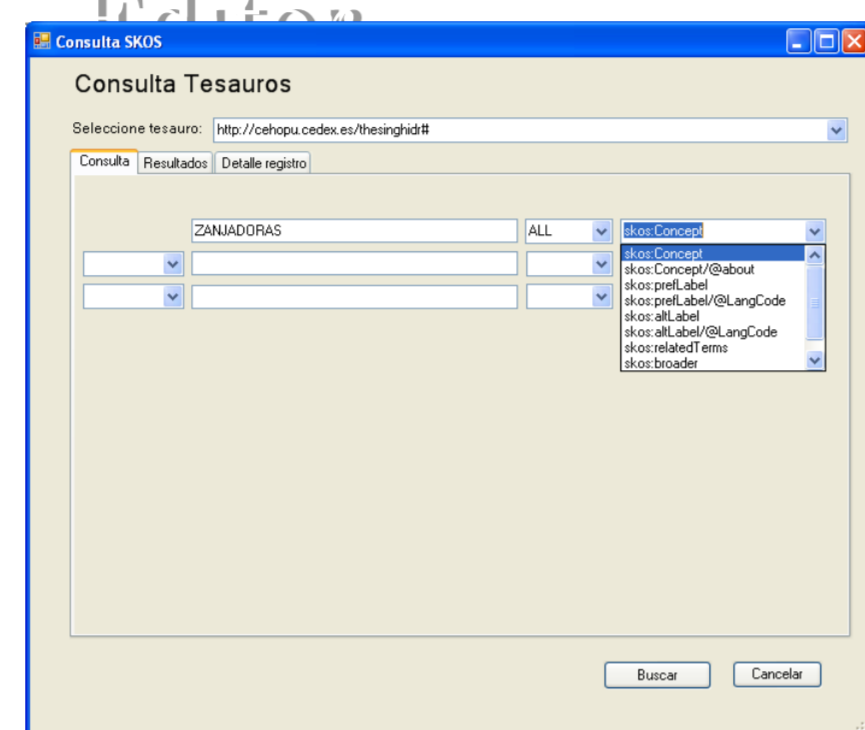
- Functions related to data load / entry:
 - Bulk Import of RDF data.
- Functions related to data extraction / search
 - SPARQL end-points.
 - Full text indexing
 - Proprietary APIs
- Main problems:
 - Lack of Integration with the tools we use for editing RDF/SKOS data.
 - Data access restricted to complex SPARQL
 - Not all the data we must manage are RDF-based (e.g. EAC authority records)
- This scenario led to the selection of an XML database tool for managing SKOS data.



INTEGRATION OF SKOS AND SRU IN A DISTRIBUTED COLLABORATION ENVIRONMENT FOR EAD DESCRIPTION



XML Metadata



<http://www.uc3m.es/bibdoc/sruSrvr/skos/processRequest.php?version=1.2>
 & operation=searchRetrieve
 & query=CQL_SEARCH
 & maximumRecords=100
 & recordSchema=skos_summary

SKOS files are generated by a conversion and uploaded in an Oracle XML DB database.

1 Cataloguer proceeds to assing descriptor

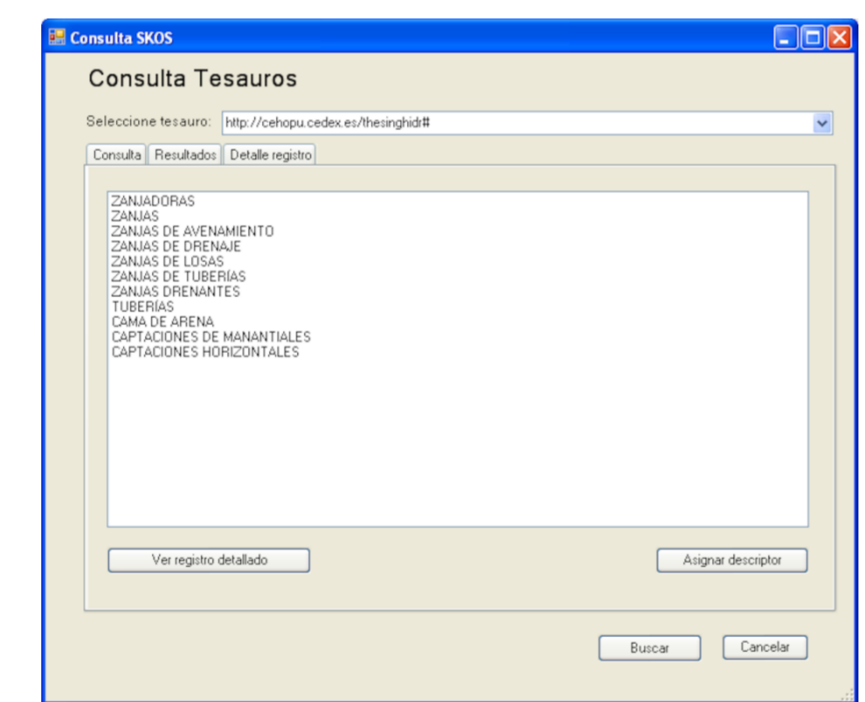


2 Cataloguer selects SKOS DB and search criteria.

3 SRU search requests is directed to remote web server.

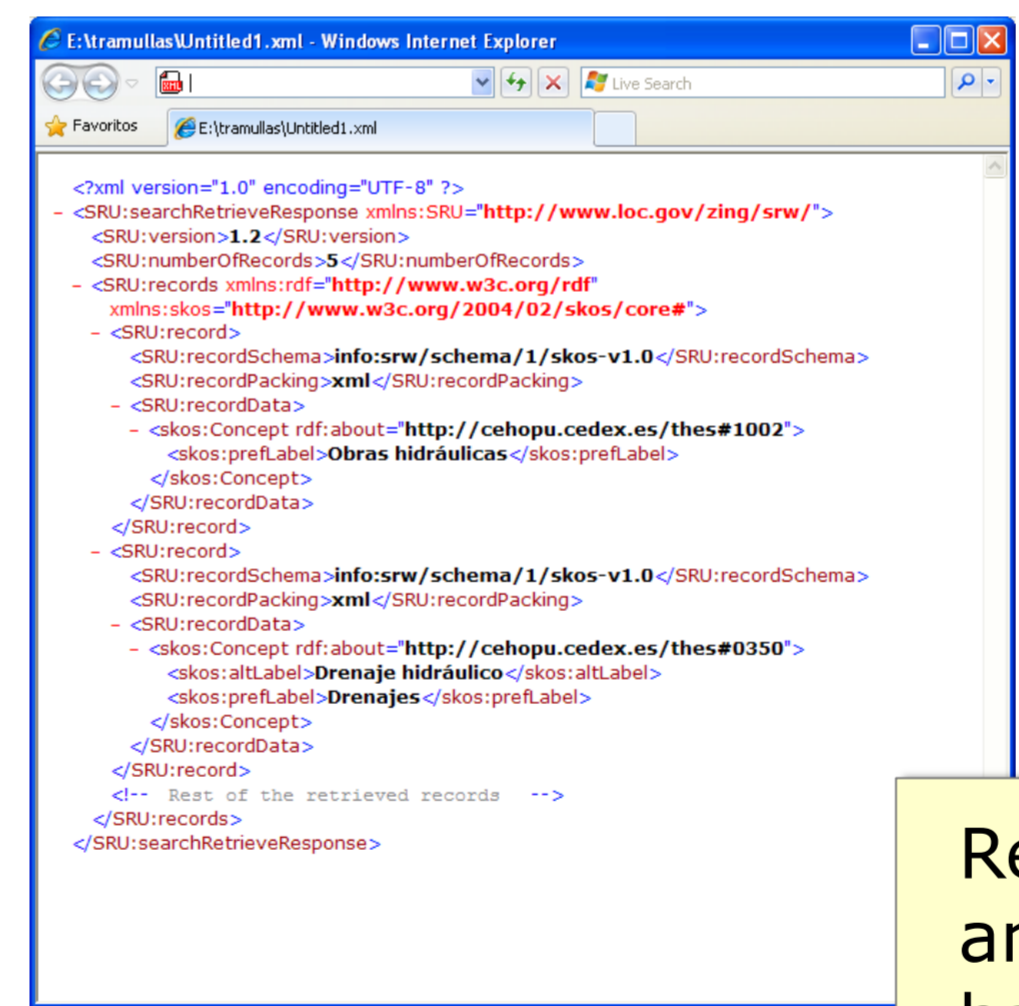


Web Server



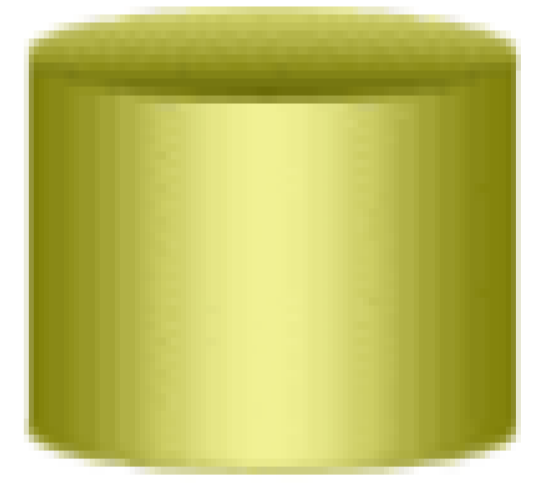
5

Response data are shown to end-user, who can assign descriptor and see details.



4

Request is processed and response sent back to metadata editor.



SKOS DB

1. Wider visibility to existing thesauri & classification systems
2. Leverage investments in the development of indexing languages.
3. Open, standard-based access to indexing languages.
4. Integration and reuse from metadata creation tools is easier.
5. New semantic integration / distributed search capabilities between repositories based on controlled vocabularies.