Rodin

A System for the Simultaneous Exploration of Digital Library Resources and Linked Open Data Ontologies

EOD-Conference "Semantic technologies in libraries:

from text to structure - from words to meaning"

10.- 11. Mai 2012

Prof. Dr. René Schneider

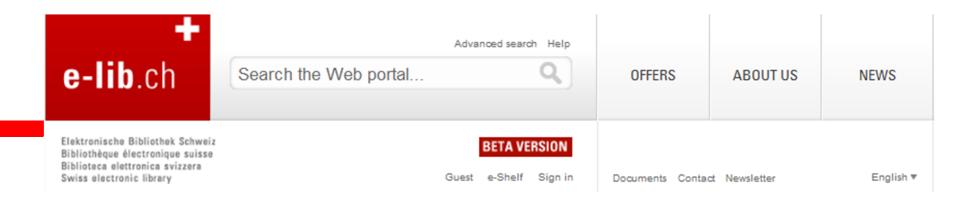
Olomouc

Haute Ecole de Gestion - Geneva

Overview

- . Background
 - . Essentials
 - . Demonstration
 - . Librarians & RODIN
- . Discussion

Background



Swiss electronic library

The portal for Swiss university libraries

E-lib.ch is the Swiss portal for academic information research. It offers a single point of access to the products and services of twenty sub-projects and to the extensive holdings of Swiss university libraries and a wide range of other institutions.

The sub-projects are being carried out by numerous different partners between 2008 and 2012, with financial support from the state.



RODIN

Project duration

01.2009-12.2012

Contact

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ROue D'INformation (Wheel of Information): a tool for bundling and linking user-relevant sources of information

"RODIN" (ROue D'INformation; Wheel of Information) is an information portal that can be customised to suit the user, giving them the option of searching in different information resources simultaneously. The resources are represented by different widgets. The user chooses which sources he/she wishes to add or remove and how they should be arranged.

The idea is that all the information sources included in e-lib.ch which have a search function are to be incorporated in "RODIN". For example, the interfaces for * "swissbib" and * RERO DOC have been incorporated, while special search environments have been created for the information portals "Infonet Economy" and * "infoclio.ch".

Conventional web resources such as Google Books and Delicious can also be consulted in the form of widgets.

After carrying out a simple search in all the selected information sources, the user has the option of refining the search by using bibliographical ontologies. Starting from one document from all the results, semantic relationships (synonyms, hypernyms and hyponyms) are defined within the ontologies, which form the basis for further searches

The project was started at the beginning of 2009 and will run until the end of 2012. Then the project is due to be continued by the Fachhochschule für Wirtschaft Genf HEG (School of Business Administration, Geneva) with follow-up financing.



Initial questions

1. What will future library systems look like?

2. What is the role that librarians will play?

3. Is scientific search more complex?

Digital Libraries and Portals

- . Portals as lists of resources (data bases, e-journals, digital surrogates) with multiple interfaces
- . DLs with indexed search engines (swissbib.ch) or harvesters (ETH Knowledge Portal / library.ethz.ch)
- . Is a third way possible?

A solution without complex data management?

. What about the Semantic Web, LOD and SKOS?

The role of librarians

Librarianship: a janus headed discipline

(Meta-)Data

Thesauruses

Taxonomies

Ontologies

Back office



Services

Loan

Reference

Place

Front office

The role of librarians

Meta-(Data)

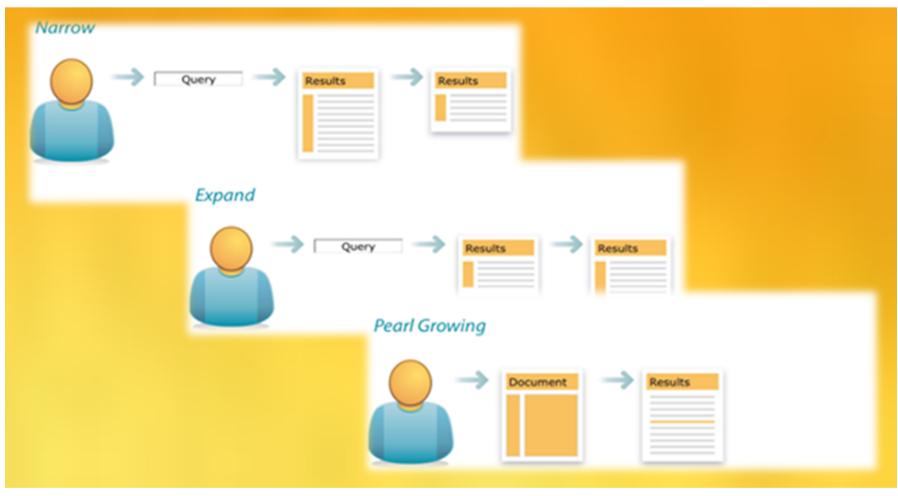
Conversion of bibliographical data into LOD-Ontologies



Services

New services,
different spaces,
user friendly tools

Scientific search



Scientific search



Essentials

Goal

RODIN is a

personal(izable) information portal

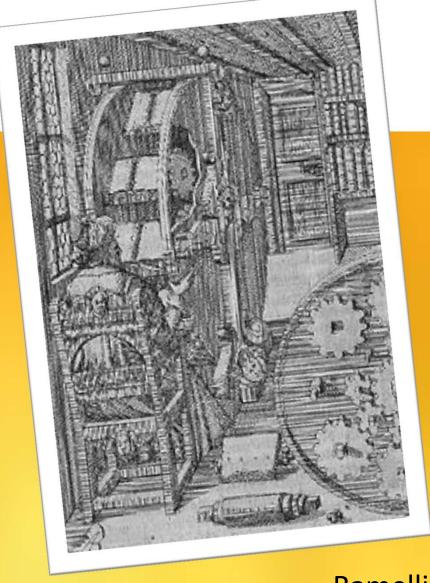
that allows

the aggregation of and the complex search in

heterogeneous data and metadata resources

while making use of LOD ontologies.

Information wheel



Ramelli

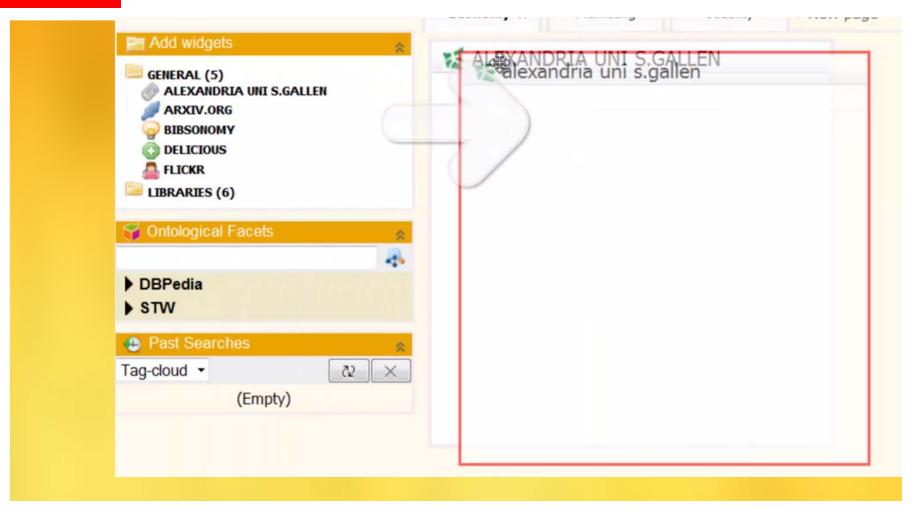
Semantic Connotations



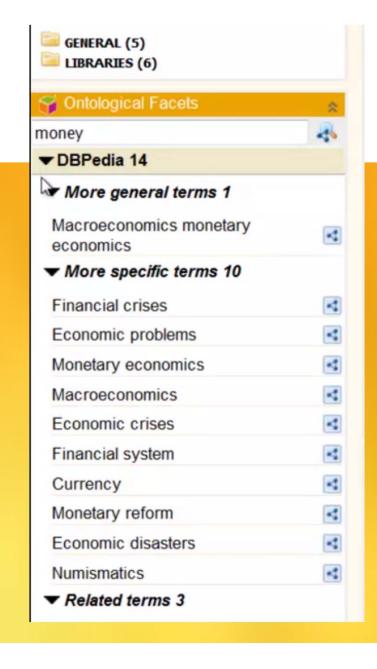
RODIN



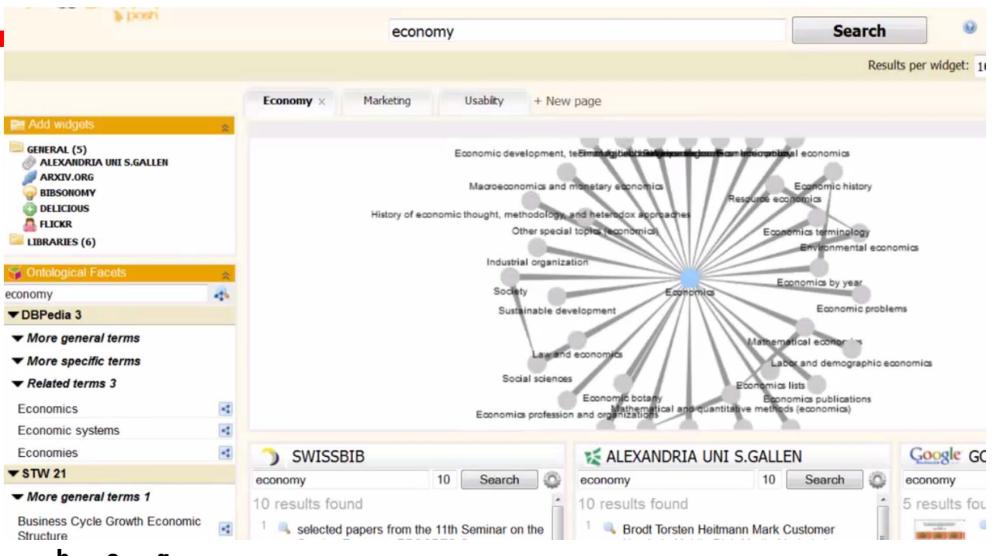
Widget

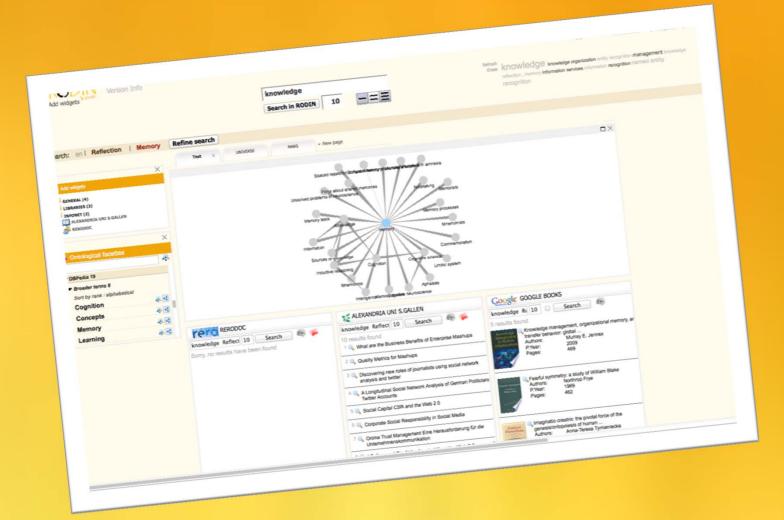


Ontologies



RODIN





Demonstration

Librarians & Rodin

Long live the middle man

Activity	User	Librarian	Developer
Identification of customer's needs		Х	
Discovery	(x)	Х	(x)
Licencing		Х	
Technical Approval, Development, Publication			Х
Promotion, Consulting		Х	
Universe Composition, Aggregation	Х	(x)	
Searching	Х	(x)	
Tagging, Rating, Sharing, Cloning	Х	Х	(x)

Librarians as Ontology Engineers



The role of librarians

Meta-(Data)

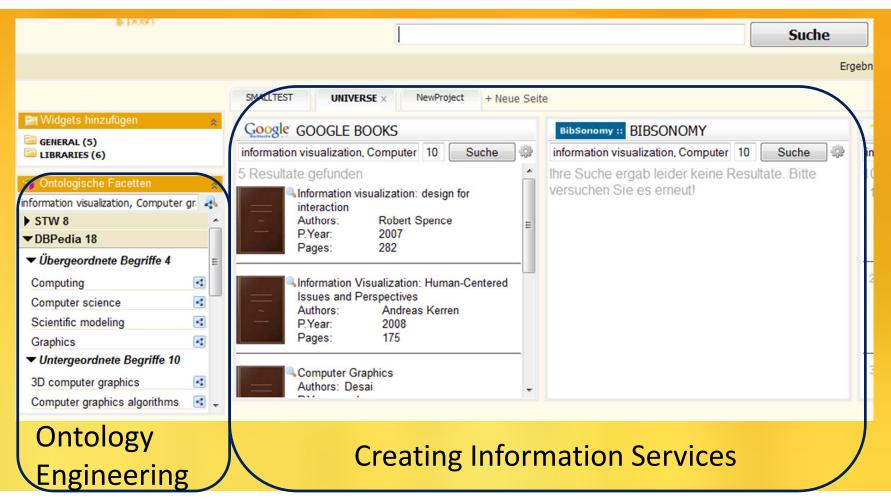
Ontology-Engineer



Services

Mediator

The role of librarians



Discussion

Problems encountered

1. Lack of standards for widget integration

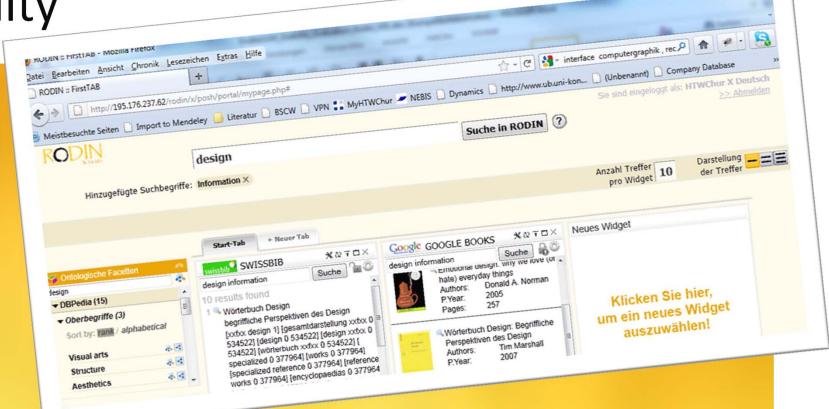
2. Brittleness of Semantic Web Applications

3. Complexity of Ontologies

Mobile RODIN



Usability



Test RODIN and participate in an online usability test! (in German or French)

Send an e-mail to: nicolas.prongue@etu.hesge.ch

Questions

Send further questions to: rene.schneider@hesge.ch