

# **EERQI Introduction**

## **(from the technical point of view)**

Slides by:

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# Technical partners

EERQI is an ICT-driven project:

- Berlin School of Library and Information Science at Humboldt-Universität (B-SLIS)
- Institute for Science Networking Oldenburg (ISN)
- Xerox Research Centre Europe, Grenoble
- Regional Computing Centre for Lower Saxony of the Leibniz University of Hanover (RRZN)
- Radboud University, ITS
- University of Lund, University Libraries



[www.eerqi.eu](http://www.eerqi.eu)



A Project funded under the  
Socio-Economic Sciences  
and Humanities Theme.

# Work done

- EERQI-website has been designed and launched

The screenshot shows the EERQI website in a Mozilla Firefox browser window. The browser's address bar displays 'http://www.eerqi.eu/'. The website header features the EERQI logo (a stylized 'QI' with a yellow star) and the text 'EUROPEAN EDUCATIONAL RESEARCH Quality Indicators'. Below the header is a blue banner with the European Union flag and the text 'A PROJECT FUNDED UNDER THE SOCIO-ECONOMIC SCIENCES AND HUMANITIES THEME'. The main content area is divided into three columns: 'EERQI' with a sub-menu, 'About EERQI' with a description and duration, and 'Events' with a calendar for September 2009.

**EERQI**

- About EERQI
- EERQI Project Identity
- What makes EERQI unique?
- Project Objectives

**About EERQI**

**EERQI - European Educational Research Quality Indicators**

A research project in the 7th Framework Programme for Research in the Socio-economic Sciences and Humanities Theme (SSH).

Duration: 01 April 2008 - 31 March 2011

**Events**

September 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



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# Work done

An internal website has been set up as common workspace.  
Instruments for internal communication (e.g. a Wiki, Web DAV )  
have been set up and tested.

Valuable Documents		Upcoming events
EERQI Searchengine	research publications,	<a href="#">ECER 2009</a> (1 day) (E
Internal Server	<ul style="list-style-type: none"><li>• propose a prototype framework for establishing such indicators and methodologies,</li><li>• make this framework operational on a multilingual basis (starting with English, German, French and Swedish),</li><li>• produce a search and query engine for resource harvesting and text analysis,</li></ul>	<a href="#">EERQI_SES7, EERQI open information session</a> (2 days) (EERQI E
Imprint		

# Work done

- An aggregated, federated content base has been set up, including collections of several electronic resources like journal articles, monographs, and book chapters in the languages English, German, French and Swedish).
- More than 2 GByte of full text is available.
- Documents have been analysed pertaining to formats, availability, metadata, reliable log files, restrictions, etc.

# Work done

- A search and query engine has been developed and already been implemented with a user interfaces in English, French, Swedish and German, giving access to:
  - Publication on the web in fulltext,
  - Metadata and two-line snippets of publications in the content base.

Who is who?  Search Help

To whom EERQI may concern

*content index*  *metadata index*  Show all metadata

*WWW index*  *WWW index (+metadata)*

		1	2	3	4
6	7	8	9	10	11
13	14	15	16	17	18
20	21	22	23	24	25
27	28	29	30		



EUROPEAN EDUCATIONAL RESEARCH  
**Quality Indicators**

[www.eerqi.eu](http://www.eerqi.eu)



**A Project funded under the  
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# Work done

- Part of the EERQI search engine has been opened to the public and is available on the project website.
- The prototype search engine has also been integrated into the German meta search engine [www.metager.de](http://www.metager.de).

# Work in progress

- A testing methodology for indicator verification has been suggested.
- The methodological principle is to compare the validity of automatically generated statistics (like citation and usage statistics) with human assessments in a peer review process.
- We are scrutinizing, whether automatically generated statistics can be used as probabilistic indicators of quality, when they are considered in combination and in a sufficient quantity.



# Details on the Evaluation Process

- **Goals:**
  - Configuration and optimization of the automatic quality checking implementation
  - Evaluation of the whole workflow

# Review of Journals

## Step 1:



- Build a testing corpus of 4 x 100 articles of
  - 6 – 10 pages length,
  - 2 – 10 year age (with the majority from 2006),
  - in the four project languages:
    - German
    - English
    - French
    - Swedish

## Step 2:



- Crosscheck by the Scientists in the project, that articles are from the field and potentially of relevance.

# Review of Journals

## Step 3:

in progress

- Find reviewers for the articles (each article needs at least 4 reviews)
- Build a matrix, who should review which article

## Step 4:

- Build a questionnaire
  - Build the list of questions
  - Build an online tool to support the review process

in progress



# Review of Journals (Questionnaire)

The screenshot displays the EERQI Quality Indicators website interface. At the top, there is a header with the EERQI logo, the text 'EUROPEAN EDUCATIONAL RESEARCH Quality Indicators', and logos for the European Union and the Seventh Framework Programme. Below the header, the main content area is divided into several sections:

- Left Navigation Menu:** Includes links for 'About EERQI', 'Who is who?', 'To whom EERQI may concern', 'Events', 'Valuable Documents', 'EERQI Searchengine', 'Internal Server', 'Galleries', 'Mailinglists', 'Email Archives', and 'Doodle'.
- Form Section:** Titled 'EERQI Quality Indicators', it contains a 'Document reviewed (title): \*' field, a 'Text analysis: \*' text area, and a note: 'A short analysis of the reviewed document.'
- Right Section:** Features an 'Events' calendar for September 2009, a 'Search' box with a 'Search this site:' label and a 'Search' button, and 'Upcoming events' including 'ECER 2009 (Event) (Now)' and 'EERQI\_SEST, EERQI open information session (EERQI Event) (4 hours)'.

**1. Rigour**

**1.1. The study uses an appropriate methodology: \***

I completely agree

I agree

I disagree

# Review of Publications

## **Step 5:** can start after finishing of the intellectual review

- Customizing and optimizing the automatic evaluation tools

## **Step 6:**

- Run the evaluation tools on the content base (non-open access articles, books, inserts, etc.)

## **Step 7:**

- Evaluate the results by scientists from the project.

## **Step 8:**

- Customize and optimize the automatic evaluation tools

(Steps 7 and 8 may be recurse several times)

## **Step 9:**

- Include the evaluation tools into the search enging harvester and run it on new media (like blogs, twitter channels etc.)

# Indicators for the Algorithms

- Usage (OA vs. Non-OA!)
- References (DOARC project)
- Institutions (danger of circular reasoning)
- Review indicators (at least 100 document fulltexts for all quality levels and languages)
- Formal criteria (more usable for automatic distinguishing the genres and formats), is Readability also one?
- Originality/Significance and Rigour (do we have batches of good and bad examples?)

# Next steps

- We need your input:
  - List of Reviewers
  - Matrix who should review what
  - Final version of questionnaire
  - List of relevant journals
  - List of professional institutions
  - Usage data of OA publications
  - Usage data of publications
  - Translated texts for the web server

# Thank you for your attention

- For further questions:
  - Severiens@isn-oldenburg.de
  - Jenny.Oltersdorf@ibi.hu-berlin.de



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