

To: STSM coordinator of Keystone COST Action

## KEYSTONE COST ACTION IC1302, SHORT TERM SCIENTIFIC MISSIONS - SCIENTIFIC REPORT

**STSM Title:** [LearnWeb EXPLORER – Guided Search for Linked Data Resources](#)

**STSM applicant:** Dr. Ivana Marenzi, L3S Research Center, Leibniz Universität Hannover, Germany

**STSM dates:** from 01-05-2015 to 28-06-2015

**Location:** University of Trento, Trento, Italy

### 1. Purpose of the STM

The motivation for the visit was to do joint research on the problem of guided search, the goal was to investigate approaches which guide non-expert users through an iterative and interactive querying process to better understand their information need and, through this process, provide them with resources which best fulfill their information need.

### 2. Description of the work carried out during the STSM

The period spent at the University of Trento was particularly interesting and useful to strengthen the collaboration with various research teams at the University of Trento (DISI), in particular:

University of Trento, DISI
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Contact: **Yannis Velegrakis**

Project: **Alexandria**

Topic: *keyword-based and entity-based search*

We updated each other on the ongoing work within the LearnWeb-OER project in Hannover (providing a keyword-based interface with additional facets to seamlessly search for educational materials on the Web) and the research on interactive query relaxation carried out in Trento.

We connected the discussion to the ALEXANDRIA project in which the LearnWeb-OER platform (in this context ArchiveWeb) is used as a meta-search engine which stores and records not only results but also the whole process of search. In this context, it provides full documentation of the collection building process, indispensable for social scientists and humanities scholars doing research based on Web content. Ongoing work focuses on importing Archive-IT collections into ArchiveWeb and providing ways to search through, enhance and work with these collections in an intuitive way.

Further work in the ALEXANDRIA context will involve entity-based annotation and search over time, and will involve joint work of a PhD student at L3S (Simon Gottschalk) and a PhD student in Trento (Paolo Sottovia), under the guidance of Yannis Velegrakis and Wolfgang Nejdl, to further harness our synergies from both database, linked data and information retrieval backgrounds. The main innovation will be to take time and evolving entities into account, and to provide new ways for (underspecified) entity-based queries in Web archives and Web archive collections.

Contact: **Fausto Giunchiglia**

Project: Open4CLIL Erasmus+ project proposal

Topic: *Open translation*

In April 2015 the L3S team participated in an Erasmus+ project proposal that aims to exploit the potential of open translation to support content-language integrated learning (CLIL) and the development of professional skills in the area of translation. Fausto Giunchiglia is very interested in the topic of open translation since he has already worked on pilots to teach translation in various countries (Italy, Mongolia, China, India, Bangladesh) and they plan to increase the number of languages to 20 in September. In July a professor of Linguistics of the University of Macerata will visit Fausto Giunchiglia in Trento to discuss the pedagogical setup of the courses. We scheduled a Skype call meeting to discuss possible collaboration in this context.

Contact: **Mirta Alberti and** Marco Caresia

Project: **LearnWeb-OER**

Topic: *Integration of TEDx Trento in LearnWeb-OER and schools applications for language learning*

Mirta Alberti is the organizers of TEDx Trento events. She was interested in understanding how the TED videos have been integrated and used in LearnWeb-OER so far, and she agreed in adding the TEDx Trento into LearnWeb-OER as well. She also contacted Boglarka Fenyvesi at the Trento Province to investigate a possible collaboration with schools in using TED talks for language learning. Marco Caresia is a TEL expert and co-founder of Eloqui: a company that provides language learning services for small and medium sized businesses. He collaborates with the TEDx Trento team for the translations and the technical aspects of the video curation. The discussion was on two main aspects: collaboration within the Trento team of TED translators, and possible collaboration with Eloqui in future project proposals

Contact: **prof. Antonella De Angeli** (<http://disi.unitn.it/~deangeli/homepage/doku.php?id=home>)

Project: **LearnWeb-OER**

Topic: *Participatory design and social infrastructuring in the YELL community*

Prof Antonella de Angeli is expert in Human Computer Interaction and she has carried out research about the use of Technology in communities of practice. She is interested in particular in the evolution of online environments that support communities of practices interactions, when such evolution is the result of the active collaboration between the members of the community and the technical experts (*participatory design*).

From this perspective she is interested in studying the YELL community in LearnWeb and the social interactions between the various stakeholders (teachers, researchers, developers) and the evolution of the *social infrastructure* in the system. The plan is to discuss with Maria Bortoluzzi (moderator of the YELL community) in September to organize joint analysis and publications.

### 3. Short-term OUTCOMES of the mobility experience

1. Integration of TEDx Trento (Mirta Alberti, Dr. Marco Caresia)  
(ex. <http://learnweb.l3s.uni-hannover.de/lw/search.jsf?query=source%3Atedx+and+TEDxTrento&action=video>  
TEDx videos found by searching for the exact string "tedxtrento" on the TEDx Youtube channel and already integrated into LearnWeb-OER
2. Follow up discussions towards a joint project in the areas of Web Search and big data analytics (Yannis Velegraikis)
3. Follow up discussions towards a joint project proposal on Open Translation (Fausto Giunchiglia)