

# Scientific Report from Short Term Scientific Mission

**COST STSM Reference Number:** COST-STSM-IS1305-26496

**Period:** 2015-04-07 to 2015-04-17

**Duration:** 9 working days

**COST Action:** IS1305

**STSM type:** Regular (from Ireland to the Netherlands)

**STSM Title:** European Dictionary Portal

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## 1. Purpose of the STSM

To work with computational linguists at INL to build an initial working version of a portal of European dictionaries, as envisaged by ENeL's Working Group 1.

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

### 2.1. Summary

The STSM's purpose has been achieved and an initial version of the portal is now available [1]. Members of Working Group 1 will now be polled for feedback and, following a discussion at ENeL's next meeting in August 2015, the portal will hopefully be developed into a fully functioning website.

### 2.2. Intended audience

During the STSM we have established that:

- The website will be intended primarily for the general public, especially for people who need to use dictionaries often: translators, language instructors, language students and people who work with texts (journalists, editors). Only secondarily will the website be intended for lexicographers.
- The goal will be to make European dictionaries easy to find and convenient to search for the ordinary internet user, while guiding the user's attention to high-quality trustworthy dictionaries. The website will make dictionaries searchable from one place, in a single coherent user experience, thereby improving on the existing situation where internet users need to search multiple dictionaries separately. It will act as a specialized, federated search engine for dictionaries, hoping to eventually replace general search engines like Google and Bing as the tool of choice for people looking for dictionary content on the web.

### 2.3. Website features

The initial working version of the portal that has been produced during the STSM has two main features:

- **Dictionary catalog.** This is accessible under the heading 'Find a dictionary' and it is a

searchable, filterable catalog of online dictionaries that ENeL considers trustworthy. The goal here is to help the user find a dictionary (as opposed to find something *in* a dictionary). For demonstration purposes, the catalog has been populated with data from the ‘inventory of scholarly dictionaries’ spreadsheet, a result of Gerbrich de Jong’s STSM earlier in 2014 [2].

- **Metasearch.** This is accessible under the heading ‘Search in multiple dictionaries’. The goal here is to help the user find something in multiple dictionary websites, quickly and conveniently from a single user interface. Note that this feature essentially provides direct links to search results; it does not scrape, process or filter data from other websites in any way. For demonstration purposes this feature has been populated with a handful of dictionaries in four languages (English, Dutch, Irish, Czech).

Every dictionary website is represented here by a small JavaScript file, essentially a ‘plug-in’ which tells our portal everything it needs to know about the website: its name and URL, what languages and language pairs it has and how one is supposed to compose the URL to link to search results. This architecture is inspired by *OpenSearch description documents* [3] but with more detail for representing facts about the search engines we link to.

## 2.4. Non-features

A long-term goal of ENeL’s Working Group 1 is to build a portal with a deeper linking mechanism between dictionaries: the portal website would recombine and ‘mash up’ content from various dictionaries and present it to the user on a single page.

We have concluded during the STSM that this is not feasible at the moment as it would require an infrastructure of machine-readable web services, downloadable datasets and mutually agreed-on data formats that does not exist in the dictionary sector yet.

However, a precedent can be found in the terminology sector, for example in the EuroTermBank project [4], a federated search engine which pools search results from several terminological databases on the Internet. The building of such a portal has been made possible because terminology data often comes in standardized machine-readable formats such as TBX [5] as a result of a frequently occurring requirement by translators and other language professionals to exchange terminological data between various CAT (Computer-Aided Translation) software packages such as Trados and Wordfast.

## 3. References

[1] <http://dictionaryportal.eu/>

[2] [http://www.elexicography.eu/wp-content/uploads/2014/12/Scientific-Report-STSM-Gerbrich\\_de\\_Jong.pdf](http://www.elexicography.eu/wp-content/uploads/2014/12/Scientific-Report-STSM-Gerbrich_de_Jong.pdf)

[3] <http://en.wikipedia.org/wiki/OpenSearch>

[4] <http://www.eurotermbank.com/>

[5] [http://en.wikipedia.org/wiki/TermBase\\_eXchange](http://en.wikipedia.org/wiki/TermBase_eXchange)