



## **PANACEA (Platform for Automatic, Normalised Annotation and Cost-Effective Acquisition of Language Resources for Human Language Technologies)**

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<http://www.panacea-lr.eu>

<b>List of partners</b>
Universitat Pompeu Fabra, Spain (coordinator)
CNR – ILC, Italy
ILSP – R.C. “Athena”, Greece
University of Cambridge, United Kingdom
Linguattec, Germany
Dublin City University, Ireland
ELDA, France

**Project duration: January 2010 — December 2012**

### **Summary**

A strategic challenge for Europe in today's globalised economy is to overcome language barriers through technological means. In particular, machine translation (MT) systems are expected to have a significant impact on the management of multilingualism in Europe.

PANACEA addresses the most critical aspect for MT: the so-called language resource (LR) bottleneck. Although MT technologies may consist of language-independent engines, they depend on the availability of language-dependent knowledge, i.e., they require LRs.

The objective of PANACEA is to build a factory of LRs that automates the stages involved in the acquisition, production, updating and maintenance of LRs required by MT systems and by other applications based on language technologies, and simplifies eventual issues regarding intellectual property rights. This automation will cut down the cost, time and human effort significantly. These reductions of costs and time are the only way to guarantee the continuous supply of LRs that MT and other language technologies will be demanding in the multilingual Europe.

In its second year, PANACEA has developed the second version of the LR factory, which allows the final user to acquire LRs by designing workflows (acquisition pipelines) that connect web services provided by the different partners. Tests for handling massive data have been successfully carried out. Some of the web services can be used for the acquisition of monolingual and parallel text and preprocessing, sentential and subsentential alignment and automated production of parallel corpora in widely used formats such as TMX. In the following months PANACEA will make available web services for the production of bilingual dictionaries, transfer grammars and acquisition of lexical information for producing information-rich dictionaries.