









qt leap

quality translation with deep language engineering approaches

**European Commission
FP7, Call 10
Strep
#610516
<http://qt leap.eu>**

List of partners	
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	Charles University in Prague, Czech republic
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	University of Basque Country, Spain
	University of Groningen, The Netherlands
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Project duration: November 2013 — October 2016

Summary

The incremental advancement of research on Machine Translation (MT) has been obtained by encompassing increasingly sophisticated statistical approaches and fine-grained linguistic features that add to the surface level alignment on which these approaches are ultimately anchored.

The goal of this project is to contribute for the advancement of quality MT by pursuing an approach that further relies on semantics and opens the way to higher quality translation.

We build on the complementarity of the two pillars of language technology — symbolic and probabilistic — and seek to advance their hybridization. We explore combinations of them that amplify their strengths and mitigate their drawbacks, along the development of three MT pilot systems that progressively seek to integrate deep language engineering approaches.

The construction of deep treebanks has progressed to be delivering now the first significant Parallel DeepBanks, where pairs of synonymous sentences from different languages are annotated with their fully-fledged grammatical representations, up to the level of their semantic representation.

The construction of Linked Open Data and other semantic resources, in turn, has progressed now to support impactful application of lexical semantic processing that handles and resolves referential and conceptual ambiguity.

These cutting edge advances permit for the cross-lingual alignment supporting translation to be established at the level of deeper semantic representation. The deeper the level the less language-specific differences remain among source and target sentences and new chances of success become available for the statistically based transduction.