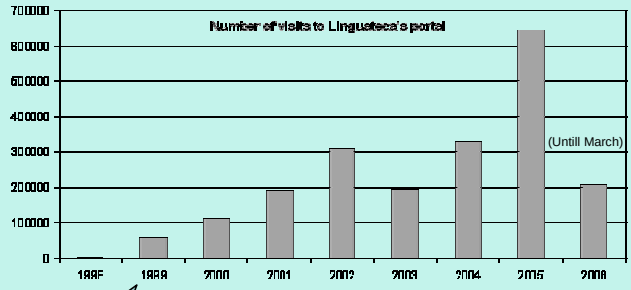
Linguateca, a distributed resource center for language technology for Portuguese

www.linguateca.pt



SINTEF ICT
Cooperative and Trusted Systems
Diana Santos
Luís Costa
Luís Miguel Cabral

Oslo (1998)
Odense (2000)
Braga (2000)
Lisboa XLDB (2004)
Coimbra (2005)
Porto (2002)
Lisboa LabEL (2001)
Lisboa COMPARA (2002)

IRE model: **I**nformation, **R**esources and **E**valuation

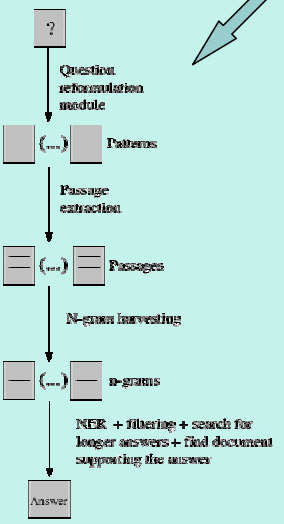
Information

❑We maintain a large web portal on the computational processing of the Portuguese language, with more than 2,000,000 visits so far.

❑ We list resources, tools and services, as well as actors and publications, and we offer a repository in the area.

❑ We also answer questions and help users about any related subject.

❑We make available already existing resources and develop new, as well as their full documentation.



The architecture of Esfinge

Resources

❑ Corpora (large bodies of text):
- ➢ AC/DC: allows one to query syntactically annotated texts (up to 250 million words) online
- ➢ COMPARA: the largest post-edited parallel corpus in the world: Portuguese and English source texts and their translations
- ➢ Floresta sintá(c)tica: treebank
- ➢ CETEMPúblico, CETENFolha

❑ IR collections
- ➢ WPT03: all Portuguese Web
- ➢ CHAVE: newspaper doc.s and topics

❑ Tools
- ➢ Question answering (Esfinge)
- ➢ Named entity recognition (SIEMÊS)
- ➢ Tokenizers, sentence separators
- ➢ Morphological analysers (AnELL)
- ➢ Spellcheckers (Jspell)
- ➢ Word aligners (NATools)

❑ Other resources
- ➢ Corpógrafo (a full-fledged system for terminology and knowledge management)
- ➢GKB (*Geographic Knowledge Base*) and Geo-Net-PT01
- ➢ REPENTINO: a NER gazetteer
- ➢ BACO: database of collocations

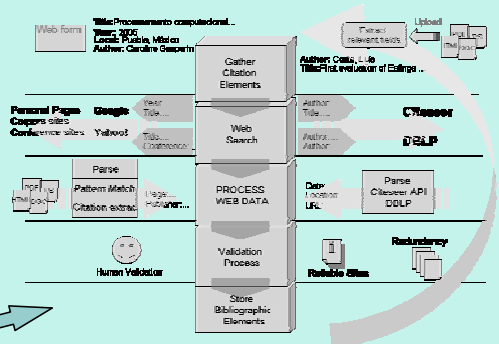
❑ Research tools or resources
- ➢ Example-based machine translation
- ➢ Ontology extraction from text
- ➢ Ontology building from dictionaries
- ➢ SUPERB: Extraction and quality checking of publication citations

Evaluation

❑ Organization of evaluation contests
- ➢ Compare several systems around a shared task
- ➢ Create evaluation resources
- ➢ Create evaluation programs
- ➢ Organize a workshop to discuss the results and the evaluation

❑ Evaluation contests
- ➢ Morfolimpíadas (morphological analysis out of context): 2003
- ➢ CLEF for Portuguese (Cross-language Information Retrieval, QA, geographic IR, WebIR, ImageIR): 2004, 2005, 2006
- ➢ HAREM (Named entity recognition): 2005, 2006

❑ Other evaluation activities
- ➢ MT from English into Portuguese: evaluating the performance of actual Web translation engines
- ➢Unobstrusive user evaluation of Web services
- ➢Component evaluation of Esfinge



The architecture of SUPeRB

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