



PANACEA

Núria Bel
Universitat Pompeu Fabra

LREC 2012
EC Projects Session





**PANACEA's objective is
to join together a number
of advanced interoperable tools
to build a
factory of Language Resources**



A production line that automates the stages involved in the acquisition, production, updating and maintenance of the LR required by MT and other Language Technologies.



**Cost and time reduction by automation
is the only way to ensure
the continuous supply of LR
that can guarantee a LT industry
covering all languages, all domains,
for current and future needs, and
in the time required by the market.**

The challenges

- **Interoperability for the easy integration of robust, scalable web service-deployed components.**
- **Handling the impact of dealing with massive data.**
- **Research for increasing accuracy in automatic acquisition & production methods.**
- **Gain credibility about the industrial use of available automatic acquisition technologies by introducing ready to use tools, with confidence indicators and which give priority to high precision results.**

First products ..

ams
Arts and Culture
Science and Society
News and eve
Εξετάσεις
Τέχνες και πολιτισμός
Επιστήμη και κοινωνία
Νέα και εκδηλώσεις
Σχετικά μ' εμάς

URBAN BLOOM

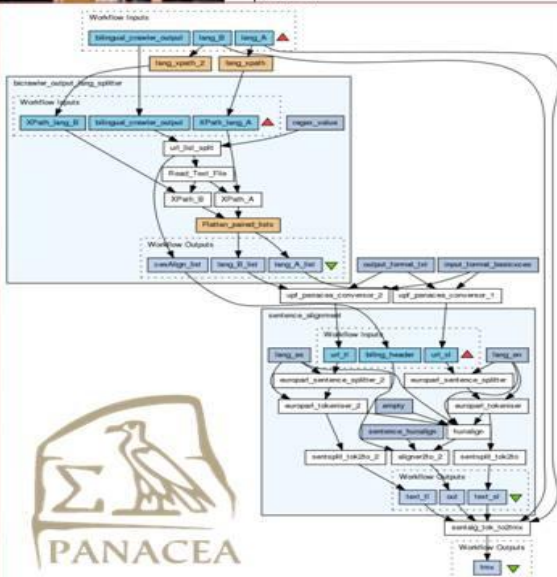
Taking into consideration environmental, social and economic concerns, this project aims to be the first step in helping a densely populated Athenian community make lasting changes towards sustainability in their area.

Through multiple and integrated initiatives, this project aims to engage people in issues of climate change, to show how they can improve the quality of their daily lives and how they can proactively address the mounting challenges of living in a concrete-laden urban planet.

ΑΣΤΙΚΗ ΑΝΘΗΣΗ

Λαμβάνοντας υπόψη περιβαλλοντικά, κοινωνικά και οικονομικά προβλήματα, αυτό το project έχει ως στόχο να αποτελέσει το πρώτο βήμα που θα βοηθήσει μια πυκνοκατοικημένη κοινότητα Αθηναίων να κάνει μακροχρόνιες αλλαγές προς την κατεύθυνση της αιεφορίας στην περιοχή τους.

Μέσα από πολλαπλές και ολοκληρωμένες δράσεις, το project αυτό έχει ως στόχο του να κινητοποιήσει τους πολίτες για τα ζητήματα της κλιματικής αλλαγής, και να προβάλλει το πως τα ζητήματα αυτά σχετίζονται με την ποιότητα της καθημερινής τους ζωής καθώς και το πως μπορούν οι ίδιοι να ανταποκριθούν δυναμικά στις κλιμακούμενες προκλήσεις ζωής που επιφυλάσσει μια ταυμεντοπόλη σε έναν πλανήτη που υπερθερμαίνεται.



```

- <tmx version="1.4">
  <header creationtool="PANACEA_Bitext2tmx" creationtoolversion="0.91" segtype="sentence" datatype="PlainText" o-encoding="UTF-8" >/header>
  <body>
    <tu tuid="0" datatype="Text">
      <seg>
        URBAN BLOOM Taking into consideration environmental , social and economic concerns densely populated Athenian community make lasting changes towards sustainability in their area.
      </seg>
    </tu>
    <tu tuid="1" datatype="Text">
      <seg>
        ΑΣΤΙΚΗ ΑΝΘΗΣΗ Λαμβάνοντας υπόψη περιβαλλοντικά , κοινωνικά και οικονομικά προβλήματα, αυτό το project έχει ως στόχο να αποτελέσει το πρώτο βήμα που θα βοηθήσει μια πυκνοκατοικημένη κοινότητα Αθηναίων να κάνει μακροχρόνιες αλλαγές προς την κατεύθυνση της αιεφορίας στην περιοχή τους .
      </seg>
    </tu>
  </body>
</tmx>

```

Also Available ...

The Language Resource Factory ...

TMX aligned texts

```
<tmx version="1.4">
  <header creationtool="PANACEA_Bitext2tmx" creationdate="2010-01-20T10:00:00" datatype="PlainText" o-encoding="UTF-8" />
  <body>
    <tu tuid="0" datatype="Text">
      <seg src="en" xml:lang="en">
        URBAN BLOOM Taking into consideration the densely populated Athenian community n
      </seg>
      <seg src="el" xml:lang="el">
        ΑΣΤΙΚΗ ΑΝΘΗΣΗ Λαμβάνοντας υπ
        να αποτελέσει το πρώτο βήμα που θα
        την κατεύθυνση της αειφορίας στην π
      </seg>
    </tu>
  </body>
</tmx>
```

```
<LexicalEntry id="le_14">
  <feat att="partOfSpeech" val="noun" />
  <Lemma>
    <feat att="writtenForm" val="catástrofe" />
  </Lemma>
  <Sense>
    <feat att="corpusID" val="labour" />
    <feat att="eventive" val="no" />
  </Sense>
</LexicalEntry>
<LexicalEntry id="le_15">
  <feat att="partOfSpeech" val="noun" />
  <Lemma>
    <feat att="writtenForm" val="strike" />
  </Lemma>
  <Sense>
    <feat att="corpusID" val="labour" />
    <feat att="eventive" val="unknown" />
  </Sense>
```

Rich information lexica

Bilingual lexica

hell	Ad	bright	Ad
hellier Licht	No	bright light	No
Henne	No	chicken	Ad
Herausforderung des Wettbewerbs	No	challenge of competition	No
Herausforderung Rechnung	No	challenge	No



```
<p id="p32" topic="sick leave;unfair dismissal;employer">... claiming unfair dismissal, wrongful dismissal and sex discrimination. She claimed her sick leave ...</p> (LAB_EN)
<p id="p36" type="title" topic="hielo ártico se derrite más predicho"> (ENV_ES)
<p id="p8" crawlinfo="boilerplate">CDURABLE sur twitter</p> (ENV_FR)
```

Intelligent crawling

Verbal SCF induction

alter su	0.2518	945
alter do-su-xc	0.0253	95
alter do-ob-su	0.0163	61
alter io-su	0.0863	324

```
<feat att="partOfSpeech" val="n"/><Lemma><feat att="writtenForm" val="authorisation for therapeutic u...></Lemma><Sense id="id270339-l-s"/>
```

MWU detection

The platform

- More than 110 interoperable web services
- Building workflows with Taverna (Hull et al., 2006)
- The PANACEA Registry is a BioCatalogue instance (Belhajjame et al., 2008)
- The PANACEA sharing space is a myExperiment instance (De Roure et al., 2008)



Service Categories

Alignment ✕

Clear all filters

Select filters from below...

Enable tag filters

Service Types (1)

MAP (115)

Service Languages (16)

Asturian, Bable (11)

Catalan, Valencian (19)

Czech (1)

English (36)

French (7)

Gallegan (12)

German (15)

Greek, Modern (1453-) (9)

Irish (1)

Italian (12)

Miscellaneous languages

Portuguese (9)

Russian (4)

Spanish, Castilian (25)

Welsh (3)

gma SOAP Soaplab

Categories: Alignment

Languages: Spanish, Castilian, English, German, French, Italian

Important: all the languages above are supported, but only in combination with English (i.e. source or target should ...)

Provider: www.cng-lie

bsa SOAP Soaplab

Categories: Alignment

_LANGUAGE_INDEPENDENT

no description yet

Provider: www.cng-lie

anymalign SOAP Soaplab

Categories: Alignment

_LANGUAGE_INDEPENDENT

Word aligner. Languages: language-independent
Job duration: random, given the nature of the aligner. Input ...

Provider: www.cng-lie

hunalign SOAP Soaplab

Categories: Alignment

_LANGUAGE_INDEPENDENT

Sentence aligner. Languages: language-independent
Job duration: 1 minute for 5,000 sentences (exponential with ...)

Provider: www.cng-lie

gizapp SOAP Soaplab

Categories: Alignment

_LANGUAGE_INDEPENDENT

no description yet

Provider: www.cng-lie

chunk aligner SOAP Soaplab

Categories: Alignment

Languages: German, English, Spanish, Castilian, French, Irish, Portuguese

View:

Status: PASSED

All tests were successful for this service

Checked: 41 minutes ago



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myPanaceaExperiment currently has **12 members**, **0 groups**, **39 workflows**, **6 files** and **0 packs**

Site Announcements

PANACEA Features Platform Demos at EAACL 2012
18/04/12 @ 12:34:25 by [Olivier Hamon](#)
[\[See All \]](#)

Latest Groups

None

Latest Tags

text analysis on [Text to dependency parsing](#) by [Valeria Quochi](#) (4 hours ago)

pos tagging on [Text to dependency parsing](#) by [Valeria Quochi](#) (4 hours ago)

dependency parsing on [Text to dependency parsing](#) by [Valeria Quochi](#) (4 hours ago)

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Updated Items

- [Workflow](#): From crawled Italian files to PoS tagged TO1 by [Valeria Quochi](#) (5 days ago)
- [Workflow](#): Text to dependency parsing by [Valeria Quochi](#) (5 days ago)
- [Workflow](#): Cleaning and sentence-splitting of web pages by [atoral](#) (13 days ago)
- [Workflow](#): MWE lexicon extractor from text by [Valeria Quochi](#) (14 days ago)
- [Workflow](#): Bilingual Process, Sentence Alignment of bilingual crawled data with Hunalign and export into TMX by [Marcpoch](#) (27 days ago)
- [Workflow](#): GrAF PoS tagging with Freeling for basicxcex documents with CORPUS analysis by [Marcpoch](#) (29 days ago)
- [Workflow](#): [untitled] by [Francesco Rubino](#) (49 days ago)
- [File](#): Soaplab (2.3.2) output size limit patch by [Marcpoch](#) (58 days ago)
- [File](#): Soaplab (2.3.1) output size limit patch by [Marcpoch](#) (58 days ago)

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DEMO's 2012

- ~~EACL 2012 (Avignon, 23-27 April)~~
- LREC 2012 (Istanbul, 23-25 May)
- Localization World 2012 (Paris, 4-6 June)
- LT-Innovate (Brussels, 19 June)
- META-FORUM (Brussels, 20-21 June)

Ongoing ...

Before the end of the project in December 2012, PANACEA wants to address more industrial needs and is seeking collaboration with LT industries.

Let us devise a solution tailored to your needs!

info@panacea-lr.eu

Keep visiting www.panacea-lr.eu

to access PANACEA's results and available web services and workflows

Thanks!



This document is part of dissemination material generated in the PANACEA Project, Platform for Automatic, Normalized Annotation and Cost-Effective Acquisition (Grant Agreement no. 248064).

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Please send feedback and questions on this document to: iulatri@upf.edu

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