

# META FORUM 2010



## **Language Technology in Practice: Needs – Problems – Wishes**

META-FORUM 2010: Challenges for Multilingual Europe  
Brussels, Belgium, November 18, 2010

# Schedule

# META FORUM 2010

- **Intro** – Hanna Klimek (EC): “Report on an LT Industry Survey”
  - 1 Andrés Domínguez (Crossminder, Belgium)
  - 2 Moshe Wasserblat (NICE Systems, Israel)
  - 3 Paul Heisterkamp (Daimler AG, Germany)
  - 4 Anita Sempels (Wordbee SA, Luxembourg)
  - 5 Pavlos Koulouris (Ellinogermaniki Agogi, Greece)
  - 6 Judith Sastre (Inbenta, Spain)
  - 7 Anita Pincas (Univ. of London; Simplicity Computers Ltd., UK)
- **Closing** – Jochen Hummel (ESTeam Germany GmbH):  
“Introducing the Language Technology Business Association”

Hanna Klimek

# Introduction



# TOWARDS A BUSINESS FORUM FOR LANGUAGE-TECHNOLOGY STAKEHOLDERS

Brussels, 18 November 2010

**Hanna Klimek**

Directorate-General for Information Society & Media  
Unit E.1 "Language Technologies, Machine Translation"



# Why a business forum for LT?

- language technologies must find their way into the **evolving online economy**
- **exploitation of research results** must be significantly enhanced
- **technology transfer** is a crucial issue
- **2011-2012** decisive years for the future of EU R&I policies & funding programmes

# What is the target group?

- vendors of LT products, both text & speech
- vendors of LT-enabled products
  - enterprise search & content management
  - text & content analytics
  - interactive media...
- providers of language services (translation, localisation, tele-interpretation) with own LT capabilities
- industrial forums, professional associations...

mostly SMEs

# The survey

- the goal is to identify priority areas for active **dialogue** & co-operation between European LT businesses
- nearly **60 responses** so far from a wide range of companies, from 18 countries
  - 29 LT vendors
  - 15 LSP
  - 15 both
- encouraging feedback from the stakeholders

# The outcomes in a nutshell

## The most pressing problems:

- **technology transfer & market uptake** are too slow [44% negative, 30% undecided]
- gaps in terms of **industry standards & open platforms** [49% negative, 27% undecided]
- existing **forums & associations** do not represent the sector well [49% negative, 28% undecided]
- low visibility vis-à-vis **policy makers & public agencies** [55% negative, 23% undecided]



# The outcomes in a nutshell

No clear picture concerning:

- **EU-funded programmes** in terms of topics, time scales & instruments
  - signal for us: there is room for improvement in communication & cooperation with the commercial LT sector
- availability of properly **skilled staff**

# Next steps

- at the moment we are
  - gathering ideas & interested players
  - investigating both scope & operation
- 20-21 January 2011 (tbc), Luxembourg
  - working meeting
  - focused discussion:
    - mandate & structure of the Forum
    - roundtable on future EU actions

questions? ideas? suggestions?

[hanna.klimek@ec.europa.eu](mailto:hanna.klimek@ec.europa.eu)

questionnaire:

[http://cordis.europa.eu/fp7/ict/language-technologies/  
business-platform\\_en.html](http://cordis.europa.eu/fp7/ict/language-technologies/business-platform_en.html)



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Andrés Domínguez

## **Crossminder (Belgium)**



# CROSSMINDER

**Manifold approach** to language technology, from unstructured data into actionable information through **meaning**

**Crossminder Semantic Engine:**

Semantic tagging, text analytics, implication detector

Crossminder solves **ambiguity, multilinguality**

## MORE SUPPORT ON NETWORKING

- **More hands-on support on networking**, specially between complementary organisations – informal meetings, more effective information flow – real needs to real technology throughout the EU
- **Less ivory tower projects**

## EU-RELEVANT PROJECTS

- Use LT to help **solving societal issues in the EU**
- Use LT to support **EU competitiveness** in the world:
  - Facilitating access to/research of foreign markets
  - Securing intellectual rights (read China), security

Moshe Wasserblat

# **NICE Systems (Israel)**

# Multi-Channel Interaction Analytics



Ongoing Monitoring

## Multi Channel Analysis



Text & Audio Analysis

“A leading provider of solutions for capturing, and analyzing customer interactions across various communication channels including phone, e-mail, chat and social media”

## Actions



Proactive Campaign

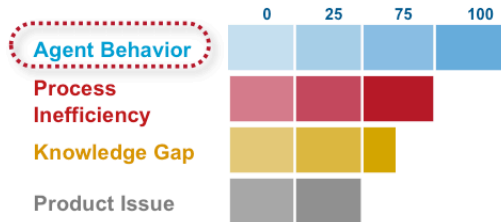


Process Correction

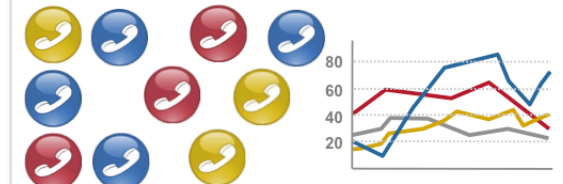


Coaching

## Root Cause Analysis



## Categorization



Alert



## R&D Challenges

- Cross/Multi-channel human interaction information
- There is a need to process and analyze noisy human interaction texts, including automatically transcribed speech interactions
- Sparse resources for multi-lingual spontaneous human interactions
- The non-linear nature of human interaction text makes it much harder for automatic analysis
- Build general platform for supporting multi-languages



Paul Heisterkamp

**Daimler AG (Germany)**



## Some long term requirements for standard and speech vehicle HMI

- **Speech Recognition Technology**
  - Speech activation
  - Multi-party recognition
  - Social interaction monitoring, affect and emotion recognition and generation (TTS)
  - Less dependence on pre-defined dictionaries / grammars
- **Multilinguality**
  - Many languages, spoken and written
  - Language mix (polylinguality)
  - Language-independent contents (e.g. traffic information in non-RDS countries)
- **Dialogue**
  - Coordinated multimodality (e.g. deixis) in input and output (pointing Avatars)
  - More natural / flexible dialogue, e.g. to discuss alternatives using an argument structure

Anita Sempels

# **Wordbee SA (Luxembourg)**

# WORDBEE

*Moving translation teams online*

- **The company**

*Luxembourg – 2008 - developed and owns all of its technology, including linguistic algorithms and text search technology*

- **The product : Wordbee Translator**

*Internet platform – SaaS – Editor – Project Mngt – Real-time Tracking*

- **Needs & wishes**

*Simplify the application process – Quick-moving projects – Business & entrepreneur oriented – free consulting & advice – transfer of knowhow*

Pavlos Koulouris

# **Ellinogermaniki Agogi (Greece)**



- R&D operating within a school, for more than 10 years
- Extensive experience in European and national research projects (~90 projects)
- Expertise in pedagogy, technology-enhance learning and educational innovation
  - Much work in the areas of science and language learning.
    - Personally: Background in linguistics, education, technology-enhance learning
- Interest in linking language technologies (LT) with learning. What we need:
  - LT can help us make educational e-content more accessible:
    - We are a core partner in large educational e-content initiatives: COSMOS, OpenScience Resources, Organic.Edunet, Natural Europe)
    - Standardised educational metadata, social tagging, learning designs; multilingual content
  - LT in/for language learning
    - LT tools could be exploited to enhance the learning experience of language learners
    - Worth exploring the development of teaching/learning scenarios involving the use of LT
    - Especially in the context of informal language learning (cf web users-explorers of LRs)
- Interested in joining projects in LT, acting mainly on the side of demand/users – but with a good understanding of your area of work. We can contribute:
  - Background, theoretical and design work (*mainly pedagogical, and linguistic*)
  - An excellent test bed with immediate access to large numbers of users (our school has more than 2,000 students and 150 teachers – and of course through our European projects, numerous working partnerships and networks).

Judith Sastre

## **Inbenta (Spain)**

# META FORUM 2010

November 17./18. 2010

Hotel Le Plaza, Brussels. Belgium

- EXPERTISE AND SEMANTICS FOR SPECIFIC INDUSTRIES

Semantic Search and Natural Language Processing

Founded in 2005

Based on SaaS (Software as a Service)

Consultancy and services

Natural Language Technology based on meaning: Lexical Functions

**inbenta**

Sentiment Analysis

Dialogue System

Automatic Summarization

Automatic Translation

Speech Processing

Judith Sastre  
jsastre@inbenta.com



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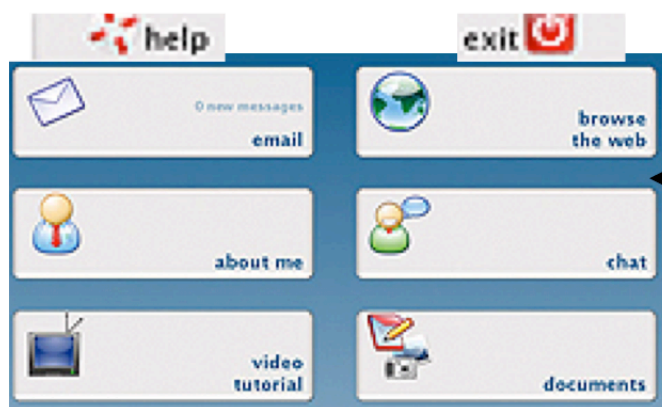
Anita Pincas

**Simplicity Computers Ltd. (UK)**

# Adaptive Language & Technology for Seniors

Anita Pincas A.Pincas@ioe.ac.uk University of London, Institute of Education for the SME

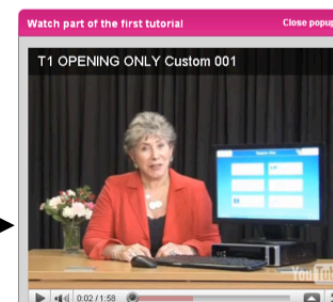
**Simplicity Computers Ltd.**



## Existing computer

Touch screen buttons available.

User training videos.



We offer the Simplicity computer and our expertise to projects with potential to develop and/or test digital adaptations for **seniors**, a growing computer user group. A few possible areas of development are listed here, but we are open to more suggestions.

**Pick up a leaflet.**

## Some specific needs:

- Quantity of text – automate contractions or summaries
- Natural language – automate simplification of difficult texts
- Search, e.g., simplify engines to suit elders' needs
- Web 2.0, e.g., simplify applications
- Games, e.g., simplify instructions
- Special functionality for visual, hearing or motor problems
- Memory aids, e.g., automated or on-demand prompts

## More innovative adaptive work should be in:

MT, HCI esp. gesture based computing, AR (augmented reality), e.g., for books, VR (visual recognition), e.g., images, objects, faces.

Jochen Hummel

# Introducing the LTBA



language technology business association

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# Introduction of ltba

Jochen Hummel

Brussels — Nov 18, 2010

## very short history



- In summer Gudrun Magnusdottir (ESTeam), Feiyu Xu (Yocoy), and Hans Uzkoreit (DFKI) discussed how LT companies are lacking a representation to drive reputation and awareness
- Gudrun picked up the ball and passed it on to me
- On Sep 28 we had our founding dinner in Brussels

The logo for Yocoy, consisting of the word 'yocoy' in a blue, lowercase, sans-serif font.

The logo for LTC, featuring a red stylized leaf or petal shape to the left of the letters 'LTC' in a red, uppercase, sans-serif font.

The logo for Lucy Software and Services, featuring the word 'Lucy' in a large, green, lowercase, sans-serif font, with 'SOFTWARE AND SERVICES' in a smaller, green, uppercase, sans-serif font above and below it, all enclosed in a green circular border.

The logo for CrossLanguage, featuring the word 'CrossLanguage' in a black, sans-serif font, with a red dot above the 'o' in 'Cross'. Below it is the tagline 'The specialists in translation automation' in a smaller, black, sans-serif font.

The logo for MorphoLogic, featuring a red stylized 'M' shape composed of three triangles, with the word 'MORPHOLOGIC' in a black, uppercase, sans-serif font below it.

The logo for Lingsoft Language Solutions, featuring the word 'Lingsoft' in a black, sans-serif font, with a registered trademark symbol, above the words 'LANGUAGE SOLUTIONS' in a white, uppercase, sans-serif font on a yellow rectangular background.

The logo for across Certified System Integrator, featuring the word 'across' in a blue, lowercase, sans-serif font, with a green stylized 'a' shape to the left. Below it is the text 'CERTIFIED SYSTEM INTEGRATOR' in a smaller, blue, uppercase, sans-serif font.

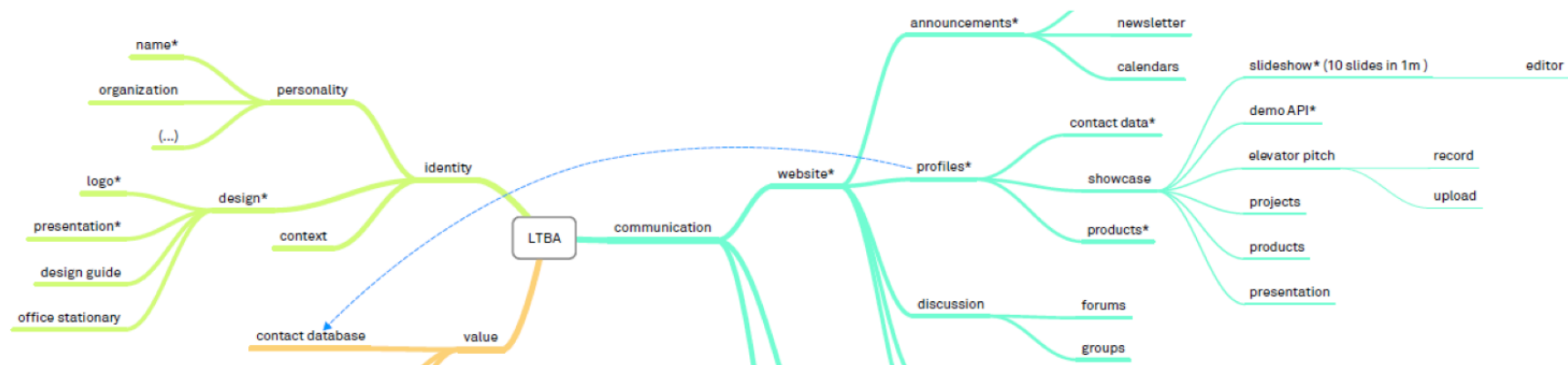
The logo for ESteam automatic translation solutions, featuring the word 'ESteam' in a blue, uppercase, sans-serif font, with a red horizontal line above the 'E' and 'S'. Below it is the tagline 'automatic translation solutions' in a smaller, black, lowercase, sans-serif font.

- SMEs with focus on language technology. Later also large corporations and companies with wider range.
- Form an active organization to create a strong industry image. Drive communication internally and externally to promote collaboration and business.
- Establish Language Technology as a recognized software product category.

# status



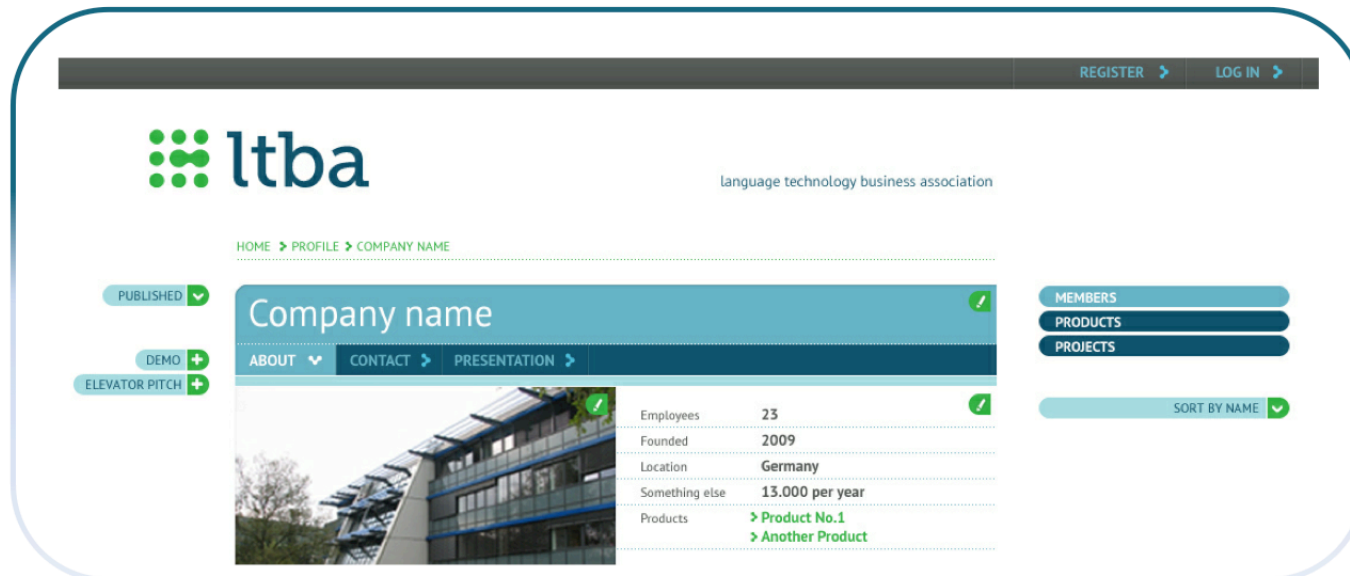
- Name, logo, and branding have been created
- Official launch when ltba web site is ready
- Feature set of first two web releases is defined
- Implementation has started
- Work so far sponsored by ESTeam AB



www.ltba.org (under construction)



- Customizable company and project profiles
- Standardized slideshows
- Elevator pitch
- Product showcasing via web services
- Blog



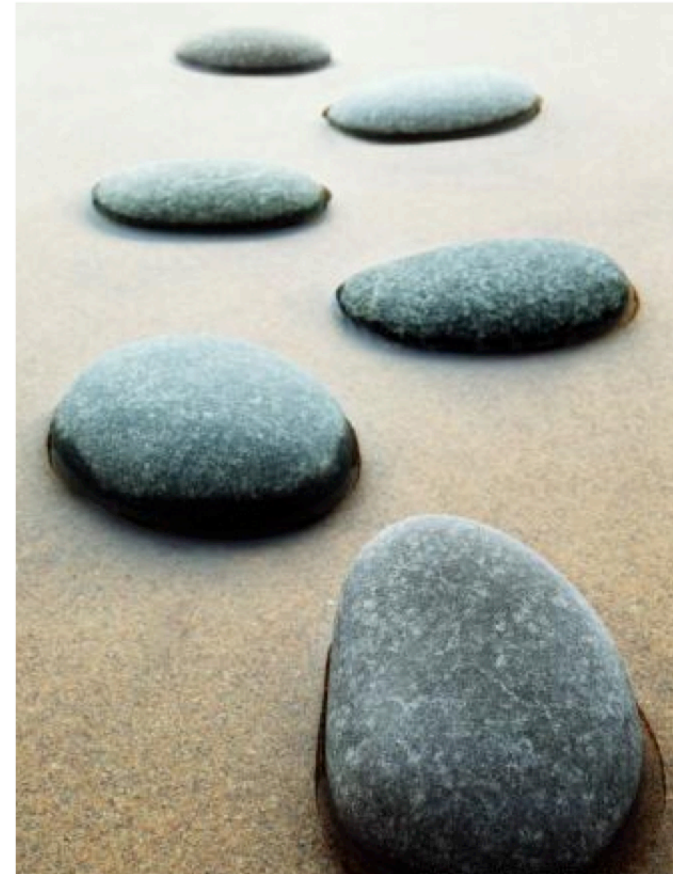


## next steps

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- Publish web site in Jan 2011
- Found non-profit organization
- Promote site and sign-up members
- Decide on and find funding
- Organize first member meeting
- Agree on future direction



contact

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Thank you!

Jochen Hummel

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