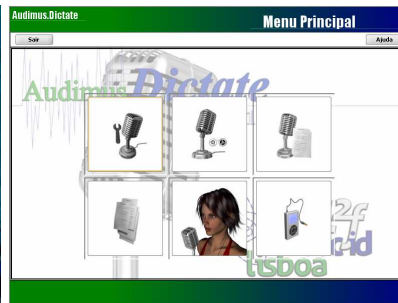**inesc id lisboa**

INESC-ID
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L²F – Spoken Language Systems Laboratory
TECNOVOZ

TECNOVOZ
Speech Recognition and Synthesis Technologies

Funded by PRIME (3.1a)
Project Number 03/165

Com o apoio:

UNIÃO EUROPEIA

prime
*Programa de Incentivos à
Modernização da Economia*

The Tecnovoz consortium was built with the goal of creating a national technological centre capable of industrialising innovative systems based on speech technologies, at the same rhythm, and at equal technological level, that occurs in others countries. Simultaneously, it is intended that Portugal affirms itself as a real actor in the development of voice and speech technologies and a defender of its application to the Portuguese Language.

This consortium brings together 4 research institutes / universities, where INESC ID is included, and 9 companies from different market segments.

The voice and speech technologies are still in an ascending curve of its development and there are few applications for European Portuguese. However the market is attractive and the evolution process of these technologies is promising. In the scope of this project a set of technology modules (9) are created to be used in diverse demonstrators (13) from the companies in the project.

The total budget of Tecnovoz is 6.36 M€ with a partition of 47% for the research institutes and 53% to the companies.
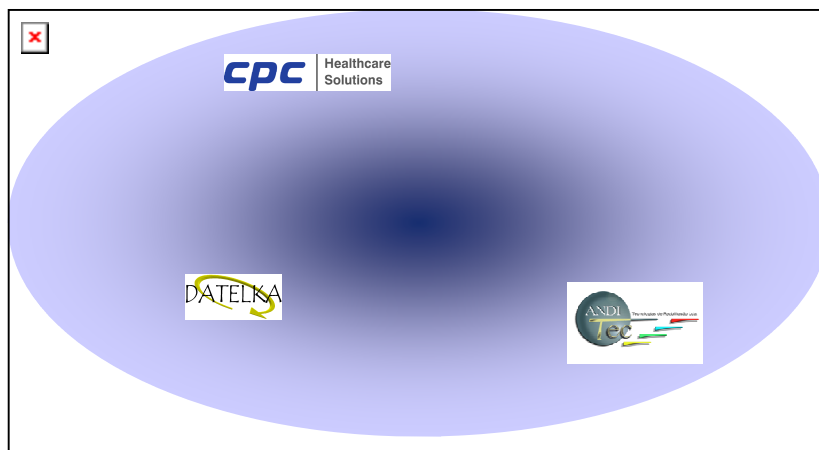
Tecnovoz will create and develop new competences on voice and speech Technologies powering new market opportunities, through the extension of the lifecycle of the existing products and the emergence of new products and systems. These products and systems will supply efficiency and productivity gains on the Organizations, increasing the competitiveness on the short and medium period. To build these new products and systems it is important the cooperation between the research institutes and companies in order to have a technology transfer.

Duration: July 2006 - June 2008

TECNOVOZ®
TECNOLOGIAS DE RECONHECIMENTO E SÍNTESE DE VOZ

L²F: TECNOVOZ project

Partners

Global view of the project

There are 13 demonstrators and 9 technology modules (APIs) resulting from the Project. Each demonstrator is based on several technology modules and each API is used in several demonstrators, as illustrated in the following matrix:

Áreas Tecnológicas		1	2	3			4		5	
APIs		1.1	2.1	3.1	3.2	3.3	4.1	4.2	5.1	5.2
ESCTN		IT / INOV	UMinho	INESC-ID	INESC-ID	INESC-ID	INESC-ID	INESC-ID	INESC-ID	INESC-ID
Empresas	**Produto / Serviço (PPS)**	**01**	**02**	**04**	**05**	**06**	**08**	**09**	**11**	**12**
Edisoft	**14** Sistema de Escutas Telefónicas		S	S						
CPCHS	**15** Arquivo de Voz e Relatórios		S		S		S	S		
	17 Desktop Médico	S	S		S		S	S		
Promosoft	**18** Soluções de Corretagen		S	S			S	S	S	
	19 Soluções Bancárias		S	S			S	S	S	
	21 Soluções de Seguros			S			S	S	S	
Datelka	**22** Sistema Controlador	S	S							
INOV	**24** LISA - Secretária Digital			S			S	S	S	
Priberam	**27** Relatórios de Bloco Operatório				S					
RDP	**28** Legendagem Automática					S				
	29 Sistema de Transcrição Automática					S				S
Tecmic	**31** Sistema Embarcado	S					S			
Anditec	**33** Sist. Comunicação Aumentativa	S			S		S			

INESC ID participation

INESC ID participation is on the following tasks:

Speech to Text conversion
API 3.1 – Continuous Speech Recognition for small vocabularies and telephone speech
API 3.2 – Continuous Speech Recognition for medium vocabularies and clean speech
API 3.3 – Continuous Speech Recognition for large vocabularies and broadcast news
Text to Speech conversion
API 4.1 – Speech Synthesis for limited vocabulary and application dependent
API 4.2 – Speech Synthesis from text application independent
Support technological modules
API 5.1 – Dialogue Management
API 5.2 – Segmentation, Indexation, Summarization and Filtering of Multimedia data

More Information

By email to info@l2f.inesc-id.pt or
directly from the website http://www.l2f.inesc-id.pt/.