

Profile of National Technology Platform

1.

Logo	TP name	Contact person (coordinator)
—	Language and Speech Technology Platform	Tamás Váradi

2. Coordinating institution (name, address, contact):

Research Institute for Linguistics, Hungarian Academy of Sciences
 1068 Budapest, Benczúr u. 33.
 Phone: 36-13214830
 Fax: 36-13229297
 Web: <http://www.nytud.hu>
 Email: linginst@nytud.hu

3. Technical objectives:

The Hungarian Platform for Speech and Language Technology forms a strategic alliance between centres of excellence in research and development and the leading industrial centres in the sector. Its mission is

- to help the sharing and the integration of the high quality knowledge accumulated in the centers that worked in relative isolation beforehand;
- to draw up a strategic Roadmap charting the directions in R&D in Speech and Language Technology with respect to the national economy, based on its actual possibilities (availability of resources, network of interests, etc.);
- to work out detailed strategic and implementation plans and to help their subsequent implementation;
- to send its suggestions and proposals to the appropriate government offices and provides them with the information necessary for making strategic decisions;
- to disseminate its analyses and proposals among the members of the IT sector;
- to represent the Hungarian interests on the international level both in Europe and the overseas;
- to disseminate the achievements of the Platform among the potential users of the technology, especially small to medium sized enterprises.

4. Relevance to national economy:

The main objective of the Platform is the coordination of research and development strategy in Speech and Language Technology. By providing a framework to the Hungarian researchers and developers working in this fast-growing field, the Platform

- makes it possible to draw the map of the technologies being developed in various parts of Hungary, and facilitates the communication between the researchers themselves;
- draws the attention of the policy makers to the hidden, though as yet unexploited economic potentials of the area (also see the section on The future perspectives of the area);
- identifies those SME's that plan to develop applications based on natural language technology, and offers them the advantages of becoming a member of the Platform;
- presents itself in the international forums as a unified entity, making it easier for the foreign companies to identify the potential Hungarian partners;
- finds and creates appropriate forums (conferences, brochures, and a comprehensive web portal) through which one can gather information about language technology in general, and the Hungarian centers of excellence in particular.

5. Sectors within the TP:

- Infocommunication Technologies
- Mobile Communication Technologies
- Telecommunication Technologies
- Mass Media
- Information Technologies
- Computer Industry

6. Manifestation of results of TP*:

New, added-value products and services	Yes
New business models	Yes
New advanced industrial/economic engineering	Yes
New emerging science and technologies	Yes
Transformation of existing R&D and education infrastructure to support world-class R&D activity	Yes

Others: Center for disseminating information on language technology and facilitating technology transfer

7. Research and Development activities:

At national level:

- *BME-TMIT, MTA-NYTUD, AITIA, MTELEKOM*: "ENHANCES Természeteshez közeli ember-gép beszédkapcsolat megvalósítása információs rendszerekben", NKFP-2/034/2004 projekt, 350MFt
- *BME-MOKK, MorphoLogic Kft., Scriptum Informatika Kft., ALL, SZTE, MTA-NYTUD*: "MEO Magyar Egységes Ontológia" 2/042/04 GVOP projekt, 197,91m Ft. <http://ontologia.hu>
- *BME-TMIT, AITIA*: "Új vizsgálati és mérési módszerek kidolgozása korszerű távközlési szolgáltatások minőségének biztosítására", Jedlik Ányos projekt, 2005/10/01 - 2008/06/03, 151,8 MFt
- *MorphoLogic Kft, SZTE, MTA-NYTUD*: "Magyar-angol gépi fordítórendszer", 2/008/2004 NKFP pályázat, 2004/12/01 - 2007/05/30, 195,918m Ft.
- *SZTE, MTA-NYTUD, MorphoLogic Kft*: "Magyar ontológia építése és alkalmazása információkinyerő rendszerekben" GVOP 3.1.1-2004-05-0191/3.0 pályázat, 2005/02/01-2007/04, 112 mFt.
- *MTA SZTAKI, ELTE, BME, MTA-NYTUD, Omega Consulting, Pont Kft.*: "Önszervező tanulási módszereken alapuló természetes nyelvi modellek és hasznosításuk irodai környezetben" NKFP 2/051/2004. 2004-2006. 119mFt.
- *ALL*: Keretrendszer különböző nyelvű hangoskeresők létrehozására és annak alkalmazása magyar, angol és orosz nyelvre. GVOP-3.3.3-05/2.-2006-01-0190/3.0. Összköltség 67 800 eFt, támogatás 44 600 eFt. 2005.06.01.–2007.12.10.

*Yes/No

At international level:

- *ALL, University of London, Centre for Digital Music Dublin Institute of Technology, Audio Research Group Royal Scottish Academy of Music and Drama, University of Innsbruck, DERI NICE Systems, Silologic: Enabling Access to Sound Archives through Integration, Enrichment and Retrieval.* EU-FP6-IST-033902. 2 100 000 EUR. 2006.05.01.–2008.10.31.
- EuroTermBank. eContent pályázati program (EDC-22 267). 2005.01.01 – 2006.12.31, 3.29 millió Euró
- EuroMatrix. 2006.09.01-2009.02.28. 2.47 millió Euró.

Have the TP got Strategic Research Plan?[†]:

No

8. Stake holders:

a. Enterprises/companies

1. Industrial:

- i. AITIA International, Inc.
- ii. Applied Logic Laboratory (ALL)
- iii. Morphologic Ltd.

2. Others:

b. Universities:

- a) Institute of Informatics, University of Szeged
- b) Budapest University of Technology and Economics (BUTE)
 - i. Department of Telecommunications and Media Informatics
 - ii. The Media Research Center at the Department of Sociology and Communications of BUTE

c. Professional Organisations (associations, councils)

d. Academic research centers:

- a) Hungarian Academy of Sciences Research Institute for Linguistics

e. Research and/or innovation centers:

f. Policy agencies (national/regional):

g. Financial institutions:

h. Others:

[†]Yes/No

9. Geographical localization (map, localization of participants):

Central Hungary, Budapest; Southern Hungary, Szeged.

10. Interaction with other Hungarian and foreign TPs:

Interaction planned:

- with foring platforms in ICT and computer industry
- with existing international platforms:
 - Embedded Computing Systems – ARTEMIS
 - Mobile and Wireless Communications – eMobility
 - Networked and Electronic Media – NEM

11. Interactions with national programs/funds:

- Competition and Innovation Program: supporting infocommunication technologies
- Government's midterm strategy for scientific, technological and and iunnova-tion policy
- "Investment in National Economy" priority group of the National Development Policy:
 - Promoting innovation and R&D and securing its infrastructural require-ments
 - Supporting dynamic and interactive IT content services
 - Securing and enhancing basic infrastructure requirements for the IT sector
- National Action Program for economic growth and employment (promoting co-operation between the business sector, R&D centers and universities)

12. Funding instruments:

project funding