

## Hungarian Language Technology From Platform to Alliance

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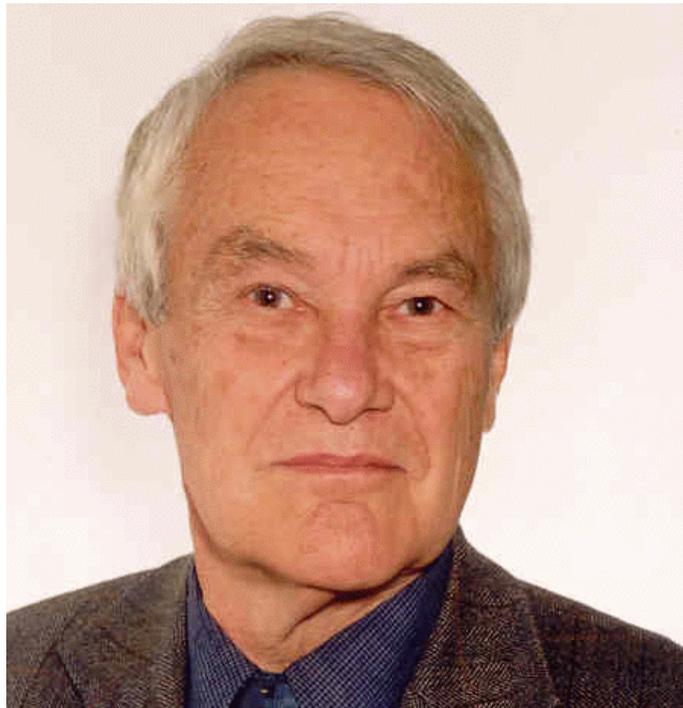


# Outline

- ❑ Hungarian Language Technology
- ❑ Hungarian Language and Speech Technology Platform
- ❑ IT5 Alliance
- ❑ META-NET

# Hungarian Language Technology

## Founding fathers



Ferenc Kiefer



Ferenc Papp  
(1930–2001)

# Hungarian Language Technology

## Key figures



Géza Gordos



András Kornai



Gábor Prószéky

# Hungarian Language Technology

## Some milestones

- ❑ 1969: Hungarian Reverse Dictionary
- ❑ 1991: MorphoLogic Kft.
- ❑ 1997: Department of Corpus Linguistics, RIL HAS
- ❑ 2000: Profivox speech synthesizer
- ❑ 2001: Hungarian National Corpus
- ❑ 2002: Szeged Corpus 1.0
- ❑ 2004: Hungarian Webcorpus
- ❑ 2004: Continuous speech recognizer system for Hungarian
- ❑ 2005: Hunglish Corpus
- ❑ 2006: Unified Hungarian Ontology
- ❑ 2006: webforditas.hu
- ❑ 2007: Hungarian WordNet
- ❑ 2008: Hungarian Language and Speech Technology Platform

# Hungarian Language Technology

## Track record

- ❑ 1995 – 1998: MULTEXT-EAST
- ❑ 1995 – 1998 BABEL
- ❑ 1997 – 1999 SPEECHDAT
- ❑ 1997 – 2002: TELRI
- ❑ 1998 – 2001: SPECO
- ❑ 1998 – 2000: CONCEDE
- ❑ 2000 – 2002: MATCHPAD
- ❑ 2007 – 2009: CACAO
- ❑ 2008 – 2011: CLARIN
- ❑ 2010: iTranslate4
- ❑ 2011: CESAR

# Hungarian Language and Speech Technology Platform



- ❑ 2 year project (2008-2010)
- ❑ Launched by National Innovation Office
- ❑ Funding: cc 150 Euro



# Hungarian Language and Speech Technology Platform



## Objectives

- ❑ Mobilize and organize all major players in the sector
- ❑ Raise awareness among users, policy makers, members of the public
- ❑ Prepare Strategic Research Agenda and Implementation Plan

# Founding members

- ❑ Coordinator:
    - Research Institute for Linguistics, Hungarian Academy of Sciences
  - ❑ Industrial partners:
    - AITIA International Zrt.
    - Applied Logic Laboratory
    - Kilgray Translation Technologies
    - MorphoLogic Kft.
  - ❑ Academic partners:
    - MOKK Centre for Media Research and Education, Budapest University of Technology and Economics
    - Department of Telecommunications and Media Informatics, Budapest University of Technology and Economics
    - Natural Language Processing Group, Szeged University
- Visit their demo stands in room Margit

# New partners

- ❑ Arcanum Development Ltd.
- ❑ Digital Natives Ltd.
- ❑ Department of Phonetics, Eötvös Loránd University
- ❑ HARKE (Association for Rehabilitation of Deaf People)
- ❑ **in4 Ltd.**
- ❑ Nuance-Recognita Corp. Hungary
- ❑ Faculty of Information Technology, Pázmány Péter Catholic University
- ❑ **SPSS Hungary**
- ❑ Tinta Press
- ❑ **WebLib LLC**

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# Mission

- ❑ to help the sharing and the integration of the high quality knowledge accumulated in the centers that worked in relative isolation beforehand;
- ❑ to define their strategic research agenda with a view to contribute to the formation of the national R&D policy;
- ❑ to disseminate its analyses and proposals among key players of the ICT 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;

# Mission

- ❑ 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.

# Results

Stratégiai Kutatási Terv



Budapest, 2009. július 15.



NYELV- ÉS BESZÉDTECHNOLÓGIAI PLATFORM  
GÉPEKKEL - EMBERI NYELVEN



Megvalósítási Terv

Budapest, 2010. október 7.



NYELV- ÉS BESZÉDTECHNOLÓGIAI PLATFORM  
GÉPEKKEL - EMBERI NYELVEN

# Challenges

- ❑ Establishing profile
- ❑ Increase visibility

# IT5: Alliance of Platforms

- ❑ NESSI Hungary
- ❑ eVITA
- ❑ Mobility and Multimedia Platform
- ❑ ARTEMIS-Hungary
- ❑ Language and Speech Technology Platform
- ❑ Networked European Software and Services Initiative
- ❑ Ambient Assisted Living Joint Programme
- ❑ eMobility Platform
- ❑ ARTEMIS European Technology Platform
- ❑ CLARIN and META-NET

## IT5: Alliance of Platforms

- ❑ NESSI Hungary Public administration
- ❑ eVITA health
- ❑ Mobility and Multimedia Platform telecommunication
- ❑ ARTEMIS-Hungary manufacturing
- ❑ Language and Speech Technology Platform ??

## IT5: Alliance of Platforms

- ❑ **NESSI Hungary**      **Networked European Software and Services Initiative**
- ❑ **eVITA**      **Ambient Assisted Living Joint Programme**
- ❑ **Mobility and Multimedia Platform**      **eMobility Technology Platform**
- ❑ **ARTEMIS-Hungary**      **ARTEMIS European Technology Platform**
- ❑ **Language and Speech Technology Platform**      **CLARIN, META-NET**

# Conclusion

- ❑ Technology Platform – a very useful means to
  - organize and consolidate the community
  - to define strategic future vision
  - to raise awareness
- ❑ Platform-wide alliance in ICT
  
- ❑ Could this be the way for META-NET to evolve?

**Thank you for your attention!**