


Profile of National Technology Platform

1.

Logo	TP name	Contact person (coordinator)
	ARTEMIS-Hungary National Technology Platform	Dr. Szabolcs Kátai

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

Hungarian Association of IT Companies (IVSZ)

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3. Technical objectives:

The aim of the ARTEMIS-Hungary National Technology Platform (ArtemisH NTP) is to motivate the concerned companies/institutions in the area of embedded systems to a long term common thinking and planning. The concerned institutions are the national and domestic industry, national enterprises, universities and research institutions, end-users, together with public and other organizations. They form a strategic partnership to develop the priorities, innovation strategies in the area of embedded systems, and thus to improve the competitive power of the institutions active in this field. Based on the national professional/scientific, economical and market premises and facilities it is a realistic aim for the ArtemisH NTP to follow the strategies and thematic objectives of the ARTEMIS ETP (*Advanced Research & Technology for Embedded Intelligence and Systems, European Technology Platform*), and to develop and adapt the common technology background, which enables the efficient and high quality development of products containing embedded systems.

4. Relevance to national economy:

In the majority of the decisive industry of national economy the value of embedded electronic components is a significant portion of the value of the end products. If the technologic and economic conditions to develop embedded systems are not available, or they do not have acceptable quality, then the end product do not develop, either.

The ArtemisH NTP is very important for the national industry, because the possible application areas based on a common technology background are open and nearly unrestricted for all of the industries. This fact can bring a remarkable professional reformation for a wide range of small and medium size enterprises.

5. Sectors within the TP:

The current supporters represent the following sectors:

- automotive industry, automotive electronics,
- railway carriages and safety equipments of railways,
- aviation industry,
- medical diagnostic imaging and other medical instrumentation,
- measurement technique,
- control technique,
- mobile communication,
- complex information systems,
- building automation,
- facility supervision, remote supervision, security technique

Potential supporters might represent the following sectors:

- All sectors can join the platform, which produce products containing embedded systems. (Such systems, which inside - hidden from the user - consist microcontrollers, microprocessors, special computers.)

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:

* Yes/No

7. Research and Development activities:

At national level:

The primary task of the ArtemisH NTP is the dissemination and improvement of the novel professional culture in the area of embedded systems, moreover the coordination of this professional activities. This involves nearly all of the industries because of the widespread incorporation and use of embedded systems. The activities are the following:

- professional orientation, training, education,
- participation in developing technology tools,
- standardization, familiarization with "best practices" solutions,
- contribution to development of national innovation strategies and priorities,
- exploration of promising application areas, which have big market potential,
- catalyze innovation,

At international level:

Cooperation with the European programs (ARTEMIS ETP, ARTEMISIA, ARTIST2)

Have the TP got Strategic Research Plan?*

No, the Platform will develop Strategic Research Plan.

8. Stake holders:

a) Enterprises/companies

1. Industrial:

- ABB Ltd.
- AENsys Ltd.
- Altacom Ltd.
- Beks Ltd.
- DSS Consulting
- Ericsson Hungary Ltd.
- Hexium Ltd.
- INFOMATIX
- Innomed Medical Zrt.
- Innotech Ltd.
- INVENTURE Autóelektronikai Kutató és Fejlesztő Ltd.
- Intel Hungary Ltd.
- ITware Ltd.
- Knorr-Bremse Fékrendszerek Ltd.
- Kontaset Ltd.
- mS Systems Ltd.
- Process Soft Informatika Ltd.
- Régens Zrt.
- Silex Ltd.
- Vectrum Ltd.
- National Instruments Europe Ltd.
- Siemens, PSE
- Temic Hungary Ltd.

2. Others:

b) Universities:

- Budapest University of Technology and Economics (BME),
Faculty of Electrical Engineering and Informatics

- University of Miskolc, Dept. of Automation
- University of Szeged
- c) Professional Organisations (associations, councils)
 - Hungarian Association of IT Companies, (IVSZ),
 - John von Neumann Computer Society (NJSZT),
Embedded and Ambient Systems Innovation Workshop
- d) Academic research centers:
 - Computer and Automation Research Institute, Hungarian Academy of Sciences (MTA SZTAKI)
- e) Research and/or innovation centers:
 - Infopark Foundation,
 - Innotech Innovation Park Ltd. - Infopark Alapítvány,
 - Innotech Műegyetemi Innovációs Park Kft.
- f) Policy agencies (national/regional):
- g) Financial institutions:
- h) Others:
 - Hungarian Aviation Industry Foundation
 - Pannon Automotive Cluster
 - CECED Hungary

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

Hungary

10. Interaction with other Hungarian and foreign TPs:

Interaction with European Technology Platform

- ARTEMIS ETP (*Advanced Research & Technology for EMbedded Intelligence and Systems*; European Technology Platform)

Interaction with National Technology Platforms under formation:

- eVITA NTP (Ambient technologies and applications)
- eCommunication and eMobility NTP
- Software and Services NTP

11. Interactions with national programs/funds:

12. Funding instruments:

- tenders,
- support from the members of the Platform