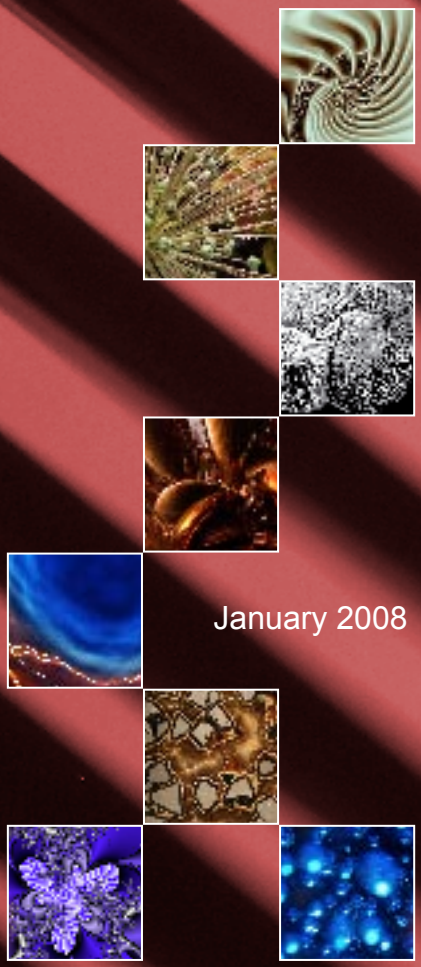
Hellenic Institute of Transport
annual report 2007

Centre for Research and Technology Hellas
CE.R.T.H.

Hellenic Institute of Transport
H.I.T.



January 2008

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A NOTE FROM OUR DIRECTOR



In the year of 2007, the Hellenic Institute of Transport, being more mature and awarded in the Greek and International Transport Research maintained its development and evolution in all the related fields. Its research work was intensified in 2007, reaching, on the whole, 57 active projects, which is actually the greatest number of active research projects since 2001, when HIT initially undertook its activity.

During this year, the Transport Institute managed to complete maybe the most fundamental infrastructure project that involves the development of the **Traffic Data Management and Process integrated system - HIT Portal**. The equipment, the software, but mainly the provided statistics in the entire field of transportation in Greece, that gives the possibilities of data collection, management/processing, and dissemination, constitutes a **state-of-the-art tool** for the research and the daily operation of the transportation field in our country. Additionally, it could be described as a unique system for the Greek standards that safeguards HIT's place as a National Excellence Institution in matters of Circulation and Transport.

Even throughout 2007, HIT's research infrastructure was further enriched and today counts two (2) driving simulators, four (4) research vehicles, one (1) virtual reality system, one (1) traffic, environmental and road quality mobile research unit and many other elements of infrastructure.

HIT's activities, however, are not limited to research project issues. In 2007 we continued the successful initiative for road safety in Greece by the well-known BOB campaign as well as by a series of TV spots recruiting famous people from the music industry in order to promote road safety messages to young people.

Moreover, there have been numerous activities of educational and informative interest, with the aim of diffusing research conclusions throughout several training seminars (for example, the presentation of HIT's educational project "PREVENT" with central topic the Road Safety in the Road Work Zones), 3 Workshops, many attendances and speeches of HIT's scientific personnel in Congresses, and more than 80 publications in the daily press.

I would like to thank all our research and administrative personnel and external experts that contribute to the Institute's rapid development and its pan-European recognition as a centre of excellence for transport research.

I would also like to thank the central administration and the administrative personnel of CERTH (the National Centre for Research and Technology of Greece in which HIT belongs) for the constant support and excellent cooperation, at all levels.

Prof. G.A. Giannopoulos
Director Hellenic Institute of Transport



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PREFACE

Research in the field of Transport, as in many other scientific fields in Greece, is in need of capable research organizations that will be able to play a key role in research activities using the needed research infrastructures.

In 2007, HIT's main areas of activities were:

- Implementation of Intelligent Transport Systems - ITS.
- Promote Innovative Intermodal Freight Transport.
- Road safety improvement with actions targeted the driver, the pedestrian, the vehicle and the work zone safety.
- Design of information systems' applications aiming to help the intermodal trips of passengers.
- New mobility sceneries in the FREE trade zone in Mediterranean basin.
- Regulatory and administrative rules to achieve the optimal transport of hazardous materials.

During 2007, HIT accomplished also to strength his research infrastructures as it has nearly completed the development of its electronic PORTAL which constitutes a complex and pioneering system of data and services exchange in the transportation field.

At the same time, an important increase of the Institute's sector's activation was observed, which continued the implementation of previous work but also activated a satisfactory number of new research works. Thus, the research work of Institute was strengthened and reached on the whole 57 research programs were in progress during 2007.

Year 2007 constituted a year of intense and essential scientific activity in all the levels. Apart from the implementation of research programs, this year the scientific personnel of HIT published 16 papers in scientific magazines and 26 papers in workshops, while at the same time its work was acknowledged through a line of media interviews and presentations.

The institute of Transport continued also in 2007 its educational activities co-organising in collaboration with the Departments of Civil Engineers and the Civil and Rural & Surveying Engineering Departments of the Aristotle University of Thessaloniki, the postgraduate studies program (Msc) entitled "Planning, Organisation and Management of Transport Systems". Simultaneously, HIT's collaboration with the National Centre of Public Administration and Local Government, and more specifically with the Institute of Training, resulted in the co-organisation of educational seminars across many areas of Greece, disseminating HIT's research results.



SHORT PRESENTATION OF THE INSTITUTE



Figure 1: H.I.T. premises.

Legal Status/Headquarters

The Hellenic Institute of Transport (HIT) is an Organization devoted to the promotion and execution of Transport research in Greece. It was established in March 2000, by Presidential Decree 77/2000 as part of the National Centre for Research and Technology Hellas (CERTH). It is a "private status" legal entity under the supervision of the General Secretariat for Research and Technology of the Ministry of Industry.

Its headquarters are in Thessaloniki, Greece. HIT is located in the Thessaloniki technology Park, Charilaou - Thermi Avenue.

A HIT's branch office also runs in Athens since 2004, in the area of Alimos, while since the midst of 2007, a second branch office of HIT was established in the new headquarters of CERTH in the Mesogeion 287 road.

Mission Statement

Our fundamental mission is to provide the services of a centre of excellence in the field of Transport with highly specialized research expertise offered to government and other public and private organizations and bodies, and to provide support for the conduct of Transport research in Greece. It is also devoted to providing support to Ministries and other governmental bodies for the formulation of Transport policy.



Figure 2: CERTH headquarters with HIT's building in the middle.

The scope of services covers all areas of Transport and in particular the organization, operation, planning and development of infrastructure, standardization, economic analysis, management, vehicle technology and impact assessment of land, maritime, air, and multimodal transport services.

Furthermore, HIT co-operates and interacts with similar organizations and Institutes in the EU and other countries, and represents Greece in relevant international fora.

The specific areas of HIT's priority activities can be described as follows:

- Scientific and research support for transport policy formulation to Ministries and other Organizations involved in Transport Policy and Control in Greece.
- Specialized research in the field of Transport.
- Organization and operation of a documentation centre in the field of Transport.
- Development and maintenance of databases covering important areas of Transport Operation in Greece.
- Transport research evaluation and appraisal.
- Support of standardization work in the field of Transport and issuance of handbooks, rules and guidelines concerning the operation of the Transport system.
- Investigation of user requirements and adaptation of transport research results to industry. Technology transfer and dissemination of research results to the transport industry and the transport users.
- Facilitate exchange of personnel, especially young scientists, between relevant organizations and companies.
- Promotion of bilateral as well as multilateral co-operation between Greece and other countries in the field of Transport, with emphasis on the countries of South East Europe.
- Representation of Greece in International Organizations and Committees.
- Organization of training and professional education Seminars and Programmes.
- Contribution to quality control in the field of Transport.
- Publication and dissemination activities (including Conferences and regular publications).

ORGANIZATIONAL STRUCTURE

Organization Chart

The current organogramme of the Institute, valid from mid 2004, is shown in Figure 3:

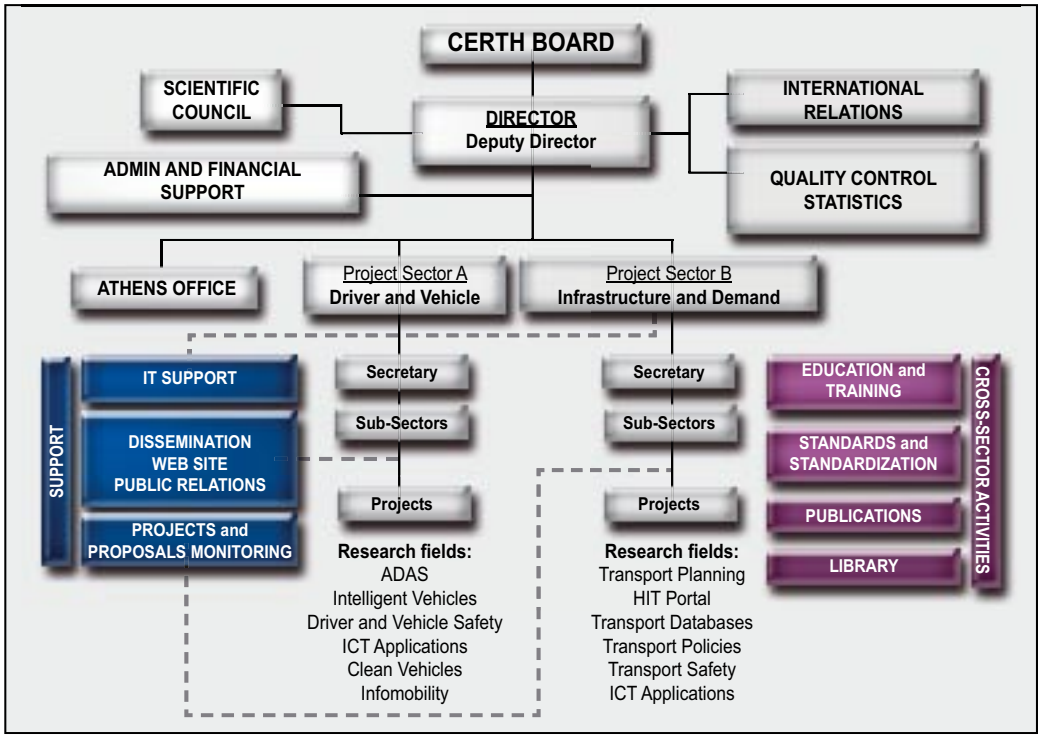


Figure 3: HIT organization chart

As it is illustrated in HIT's Organization Chart two (2) Operational Sectors function:

- Sector A: ***Driver & Vehicle***, Supervisor: Dr. E. Bekiaris
- Sector B: ***Infrastructure & Demand***, Supervisor: Dr. G. Aifadopoulou

The notion of an "Operational Sector" is that of a large unit dedicated to a specific scientific field and equipped and staffed appropriately for this purpose. The size of an Operational Sector depends on the number of projects it has at any given point in time.

HIT Management

The Institute is managed by its Director, assisted by the Deputy Director, when needed. More specifically, the Director is responsible for drawing up the research and business (development) plan of the Institute, the decision making in terms of staffing and discipline matters in general, the budget allocation, the annual review and balance, as well as for any other issue pertaining to the Institute's day-to-day management and operation, and their introduction to the Scientific Council.

The Director is elected after the post proclamation, submission of candidature, and the selection of an independent fivefold eligible committee. The nomination is accomplished based on a five-year contract under the auspices of the Greek Minister of Development, according to the corresponding procedure 3, 4 and 5 of article 11 of Law1514/85. This procedure firstly took place in 2003, and Prof. G. Giannopoulos was elected as HIT's director.

In case of Director's absence or appearance of any difficult to perform his tasks, the one who takes charge is the Deputy Director, who has the appropriate qualifications of a researcher of at least Institute's A' Grade and is settled based on the decision of the Scientific Council. At the time being, HIT's Deputy Director is the Assoc. Prof. A. Ziliaskopoulos.

HIT's Scientific Council is composed of five A' and B' Grade researchers, who are elected by secret balloting out of all Institute's researchers. In the duties of the Scientific Council, the following are

included: the approval, after the Director's introduction, the budget, annual review and balance, the consultation on matters of scientific policy and goals of the Institute, the monitoring of Director's ascription in his responsibilities, and particularly in setting the Research and Development agenda, as well as the following-up of the research and business (development) plan and the submission of the required, by the relevant legislation, reports to the Minister of Development.

HIT's Scientific Council of 2007 consists of the following:

- Prof. G. Giannopoulos, Director.
- Assoc. Prof. A, Ziliaskopoulos, Deputy Director.
- Dr. E Bekiaris, Research Director A', Research Director.
- Dr. G. Aifadopoulou – Klimi, Principal Researcher B'.
- Dr. Y. Tyrinopoulos, Associate Researcher C'.

Human Resources 2007

HIT employed in 2007:

- Elected scientific personnel (researchers of A', B', C', and D' Grade).
- Administrative and technical scientific staff with short-term work conventions.
- External associates or experts with work conventions.

The personnel of the first two categories, as well as certain principal external experts for the year of 2007 are concisely presented below:

A. Researchers

- Prof. G. Giannopoulos, Civil Engineer - Transport Planner, HIT's Director.
- Ass. Prof. Ath. Ziliaskopoulos, Civil Engineer - Transport Planner, HIT's Deputy Director.
- Dr. E. Bekiaris, Mechanical Engineer, HIT Principal Researcher A´.
- Dr. G. Aifadopoulou, Civil Engineer - Transport Planner, HIT Principal Researcher B´.
- Dr. Y. Tyrinopoulos, Transport Planner - Researcher C´.
- Dr. M. Morfoulaki, Civil Engineer - Transport Planner, Application Scientist B´.

B. SCIENTIFIC AND ADMINISTRATIVE PERSONNEL (in alphabetical order)

- B.-M. Vasilantonakis, Control & Computer Systems Engineer, MSc Computer Systems & Networks.
- E. Gagatsi, Civil Engineer, MSc Transport Planner.
- E. Gaitanidou, Civil Engineer, MSc Transport Planner.
- P. Georgopoulos, MSc Mechanical Engineer.
- M. Gemou, Mechanical and Aeronautics Engineer.
- St. Dimopoulou, Administrative Responsible.
- K. Kalogirou, Software Engineer - MSc in Digital Signal Processing at Communication Systems.
- A. Kortsari, Civil Engineer.
- P. Liapis, Economics Science.
- K. Linaras, Software Engineer - Computer System Engineer (MEng).
- D. Margaritis, Automotive Engineer Research Associate.
- E. Mitsakis, Dipl. Civil Engineer, PhD Candidate Transport Engineering.
- T. Moshovou, Civil Engineer - Transport Research Associate.
- A. Mousadakou, Mathematician.
- St. Nikolaou, Software Programmer.
- M. Panou, Electronics & Computer Engineer.
- V. Papadimitropoulou, Business Administration, Administrative Support.
- V. Papakostopoulos, Dipl. in Psychology - MSc in Ergonomics.
- D. Paraskevadakis, MSc Business Studies - Supply Chain Management.
- Dr. Y. Pavlis, Industrial Engineer.
- E. Portouli, Mechanical Engineer.
- P. Spanidis, Software Engineer - MSc in IT and Data Communications/Programmer - Analyzer.
- G. Tsakou, Research Projects Analyst Literature, Linguistic.
- A. Tsioutras, Civil Engineer, MSc Environmental - Transport Planner.
- G. Haralampous, MSc Civil Engineer - Transport Planner.
- E. Chrisohoou, MSc Statistics & Operation Research - Mathematician.

C. ADMINISTRATIVE PERSONNEL

- S. Adam, Secretary of Athens office (area of Alimos, for certain period).
- K. Katsareli, Secretary of Athens office (area of Alimos, for certain period).
- A. Kostouli, Secretary of Project Sector A (Thessaloniki).
- A. Christodoulou, Administrative Secretary of Project Sector B (Thessaloniki).

Premises

HIT is housed in different buildings in Athens and Thessaloniki, but its headquarters are housed in the 6th km of the Charilaou - Thermi Road in the so-called "Thomas building", which near the Technology Park, in Thessaloniki. However, the current premises of headquarters is considered to be temporary, and the necessary procedures (reinforced by the Centre for Research and Technology Hellas) for the construction of the new building facilities in a 20 acre plot of land have already been initiated. Specifically, the area purchased is next to the premises of the Technological Park.

Complete erection of the new building facilities will definitely comprise offices of a total surface area of approximately 1500m2, along with underground state-of-the-art laboratories of a surface area of 1000m2, while the eventual long-term objective involves the acquisition of the necessary outdoor space of a surface area of approximately 6000m2, with the intention of developing facilities of circulation simulators, as well as appropriate installations related to the control of the manufacture materials used for infrastructures of transports.



Figure 4: Virtual representation of CERTH's future premises with HIT's building in the front.



Figure 5: Virtual representation of CERTH's future premises (the first being HIT's building).

Mobile Lab for Environmental and Traffic Measurement

HIT, in order to promote transportation/environmental research in Greece and to support the relevant authorities, has created a Mobile Lab for Environmental and Traffic Measurements. It has been financially supported by PEP of Central Macedonia and by the support program for Competitiveness of EPAN, in the framework of the initiative for "Excellence within the technological research". The Lab has the goal to provide the tools for collecting and analyzing data, which will assist actions for the reduction of environmental pollution and traffic related problems.

The Mobile Lab includes a number of scientific environmental and traffic measurement instruments, as well as the proper supportive equipment. More specifically:

- A static base which carries HORIBA CO, SO_2, NO, NO_2, O_3 & NO_x analysts on air, a sampling and a calibration HORIBA system.
- Air humidity and temperature measurement sensor.
- Wind-gauge and wind-vane sensor.
- Road profile recording georadar of high quality and analysis, with a 900MHz sensor.
- Traffic parameters measurement sensors and traffic volume measurement radar.
- Digital noise measurement instrument Class 1 IEC 61672.
- Processing and tele-transmission system for the data collected by the environmental instruments and traffic measurements.
- Power supply generator of alternative current (measurements can be done during Lab motion).

The Lab can perform the following:

- Gas emission - pollution measurements.
- Weather condition measurements (temperature, humidity, wind direction and speed).
- Sub-surface profile plotting.
- Traffic parameters registration and traffic volume measurements.
- Noise measurements.



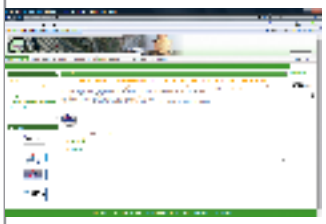


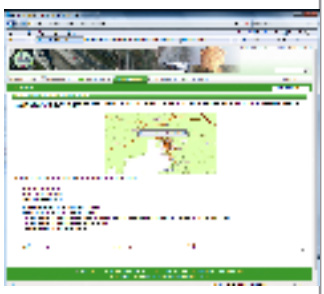
HIT Portal: Data Management and Process

The HIT TransPortal is a web based portal which provides Transport Data Management and Process services, supporting thus the Transport Research Community in Greece.

The HIT TransPortal, currently hosted by the Hellenic Institute of Transport, addresses identified gaps in the collection and administering of data vital to the modern management of Transportation Systems, listed below:

- Fragmented and not sufficiently up-to-date information on the development and management of









transportation systems in the country.

- Lack of knowledge and skill in the use of specialized Information and Communication Technologies (ICT) tools for the planning, management and control of Traffic and Transportation Systems by the relevant authorities.
- Slow adaptation to and adoption of innovative solutions and research results by the transportation sector.

The HIT TransPortal, manages raw and ICT processed data to offer the following services to the users:

- Observatory.
- Routing.
- Transport planning and simulation tools.
- Infomobility Centre.
- Innovation Incubation.
- Test Platform.

The HIT TransPortal, is installed on hi-tech hardware including Powerful Servers, Distributed Systems, Desktop and Mobile Workstations, Mobile Phones, Palmtops, GPS Receivers. Data and applications are protected with the aid of critical modern network security procedures.

The equipment run under the Windows and Linux operating systems, with each workstation being dedicated to a specific operational task, using the relevant set of specialized ICT tools to process raw data in order to provide the users with the requested information or specific service.

The HIT TransPortal, uses state-of-the-art databases to store and distribute the traffic and transportation data. These databases are organized, depending on the data they manage, either by service function or by type of data and, when required, they interface with other database services such as the GIS server and the Web server.

The server systems and applications administration is performed by expert server and network administration tools and is under constant scrutiny so as to ensure satisfactory and uninterrupted operation of both systems and applications.

Research Vehicle for Driving Behaviour

Within the framework of the operational programme COMPETITIVENESS of the Ministry of Development, Measure 3.3, Action line 3.3.1, Act 3.3.1.2 “Excellence in Research and Technological Organizations supervised by the Greek General Secretariat for Research and Development” a Centre of Excellence on driving behavior issues was created within the Hellenic Institute of Transport. The Centre is equipped with a research vehicle able to record and analyze on-line driving behavioral parameters as well as able to simulate advanced driving assistance systems, a semi-dynamic driving simulator and a virtual reality system with software specific for transport applications.

The research vehicle is a Lancia Thesis 2.4 20V Emblema model. It is equipped as follows:

- Front obstacle detection radar, providing information about front obstacles (distance, relative speed).
- Lane recognition camera, providing information about vehicle position relevant to the lane.
- GPS.

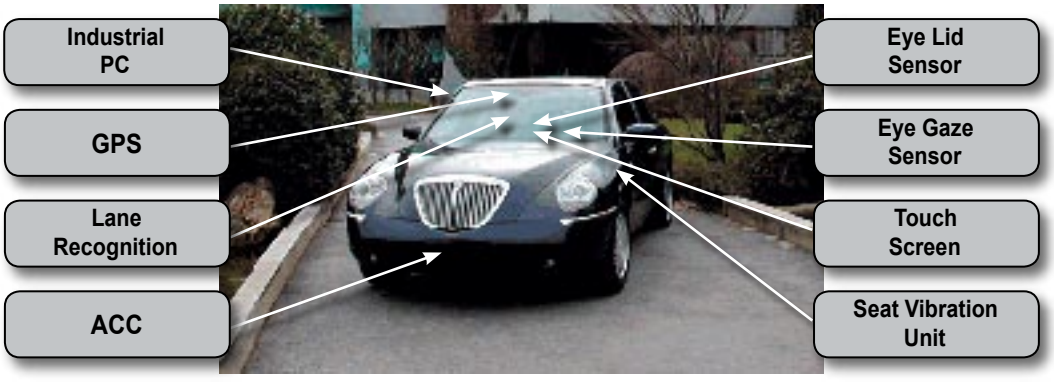


Figure 6: Overview of the research vehicle for driving behaviour.



The touch screen.



The central mirror.



The eyelid sensor.

- Eyelid sensor and software, providing information regarding eyelid movements, which are useful to estimate level of driver's hypovigilance.
- Eye gaze sensor and software, providing information on the focus of attention of the driver at each specific time moment.
- Electronic unit, which collects information from the vehicle electronic system and exports them to the central PC for processing. Such information include: acceleration pedal position, brake cylinder pressure, vehicle longitudinal speed and acceleration, yaw rate, steering wheel angle, lights status, wipers status, external temperature, etc.
- Main PC to record and store all information as well as on-line process it.
- Touch screen integrated in the vehicle dashboard driven by the main PC, so as to provide warnings to the driver.
- Special warning lights integrated in the central mirror and seat vibration unit, both driven by the main PC so as to provide adequate warnings to the driver.

Using the systems of this research vehicle, the functionalities of several advanced driving assistance systems can be simulated as well as their HMI. In this way, it is possible to perform ergonomic studies for such systems as well as studies on user acceptance. Furthermore, the driving behavior can be analyzed in detail and safety studies regarding vehicle and road interventions can be conducted.

Mobile Driving Simulator under the influence of alcohol abuse

Within the framework of BOB-Campaign in Greece (Alcohol - Not Tonight - I am Driving), HIT has also equipped a mini-van with a «drunk driving» simulator, the combination of which will demonstrate the direct negative drawbacks of driving under the influence of alcohol, allowing HIT to promote systematically a pioneering, for the Greek standards, educational campaign.

Virtual Reality System

CERTH / HIT possesses a Virtual Reality System, which is in fact a single wall cave system, and is generally intended for the realization of designing, performing structural studies, and ergonomic or other safety assessment analyses that require the simulation of a series of various procedures. Towards the achievement of such goals, the use of the software package "Virtual Anthropos" and its subsystems are required.

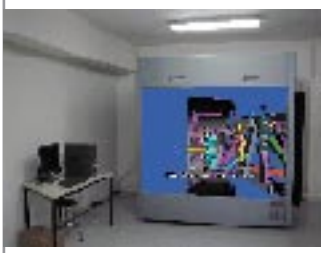
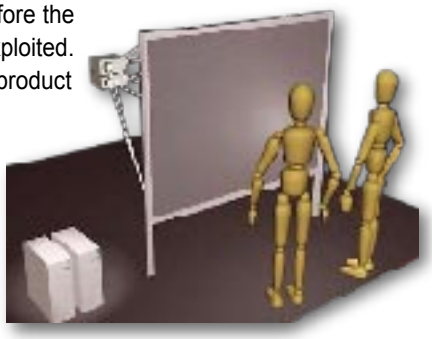


Figure 7: General overview of the HIT virtual reality system.

For the implementation of the above research scopes, the VR system has adapted a number of software tools, which give the potential for the visualization and manipulation of 2D and 3D CAD files in immersive environment, which includes cuts, disassemblies, measurements, rotations, lightning, etc. in real time. This application framework may prove to be useful for engineers during the phase of design and revision and moreover for the products marketing and exploitation, by means of their demonstration.

By means of the use of human models and their multiple parameterizations, there is also the potential for Human Factor and Risk Analyses, before the final physical product is to be produced and commercially exploited. It is a cost-effective and flexible tool, aiming at the qualitative product advancement.



There are a lot of software tools that could be adapted in the HIT VR system aiming at the implementation of more complex and sophisticated analyses, whereas the potentials for the system advancement to a three, four, five or six walls system (VR cave) is considered as a foreseen and feasible perspective within near future.



General overview of the driving simulator.



Driver's field of view.

Driving Simulator

The HIT driving simulator is built around a Smart cabin equipped with sensors. The position of all control levers, windshield wipers, blinker, ignition key and light switch is transmitted to the driving computer. All operational elements, steering wheel, accelerator pedal, brake pedal, gearshift lever and handbrake lever, provide nature-true force reactions. The gearshift functions like in the real car either as automatic or "softtip" with incrementing and decrementing the six gears and with reverse gear.

The sight system includes five large-screens, each having a width of 2m. There is on-screen projection with consumer video projectors with 2500 ANSI-lumen. The sound system generates original sounds according to the situation (starter, engine noise, horn, screeching of tires, drive wind, rain, etc.). The vibration device creates nature true vibrations of the car according to the revolvation of the simulated engine.

The simulator is equipped with specialized software which allows the development of special driving scenarios, according to the purposes of each study. There is surrounding traffic with at the most 30 road users with artificial intelligence, comprising passenger cars, trucks, pedestrians and cyclists. They observe the traffic rules, the distance from the foregoing vehicle and observe the speed limits, come to a stop before red lights and crossing traffic, accelerate and decelerate in a natural way and may be passed. For traffic education and training the behavior patterns may be modified, so that aggressive, very slow, unskilled or drunken drivers may be simulated.

The software includes various courses (standard course, hill course, round course, roadnet, highway), sight- and road surface conditions (nice weather, fog, rain, snow, night) and various modes (i.e. driving under various alcohol consumption rates). There are also specific software modules related to elderly drivers' behavior assessment.

The simulator is adequate to study dangerous situations, which would not be safe to test on real traffic conditions, like for example overtaking, driving under the influence of alcohol, etc.

Research Vehicles

HIT's main vehicle research equipment is a number of clean vehicles that are used to serve Institute's research needs; namely to survey the impacts on the wide public from the introduction of clean vehicles in the urban traffic. These vehicles are described below.



Figure 8: The electrically assisted bicycles.

Electrically Assisted Bicycles

The electrically assisted bicycles are used so as to assist the rider in propulsion. Each bicycle weights approximately 38.5 kg and can carry up to 80 kg. The maximum speed is 20 km/h and the maximum driving range is 35-50 km.



Figure 9: Electrical moped during charging.

Electrical Mopeds

The electrical moped EVT combines high technology with environment protection, easi-ness of use, smooth acceleration and portable charges. It includes a motor on the wheel for greater efficiency and reduced power consumption, a smart digital controller, over-heating protection systems and two modes of operation (economy and reinforced), energy level LEDs and negligible noise.

Hybrid Vehicle Toyota Prius

The hybrid vehicle TOYOTA PRIUS is being used –in parallel to the electric two-wheelers– in surveys regarding technologies of clean vehicles as well as for drivers' pilot training.

A special recording device was installed on the vehicle, which stores data regarding fuel consumption and driving behavior. This data can be sent via GPS to a center for monitoring and consulting purposes. The vehicle was also equipped with a wireless smart card reader. This smart card is used so as to activate the automatic operation of the entrance bar to a dedicated parking place.



Figure 12: System recording driving and consumption data.



Figure 10: HIT's hybrid vehicle.

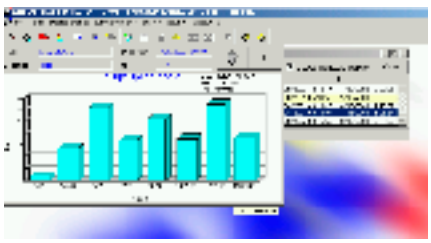


Figure 11: Analysis of driving data.

RESEARCH ACTIVITY

Research Projects

Table 1 shows in brief HIT's scientific activities in 2007. Its on-going projects for 2007 were 57, of which 12 started within 2007 while the rest 45 are projects were previously launched. At the same time, 36 proposals were submitted in 2007, of which 13 were approved. Finally, 19 of the total 57 active projects will expire within 2008.

TABLE 1: Brief presentation of HIT's projects 2007

BRIEF PRESENTATION OF HIT'S PROJECTS 2007	
ON-GOING PROJECTS 2007	57
PROJECTS WITH STARTING DATE IN 2007	12
PROJECTS WITH STARTING DATE IN 2003-2007	45
PROJECTS PROPOSALS 2007	36
APPROVED PROPOSALS 2007	13
PROJECTS EXPIRING IN 2007	19

Table 2 shows in summary the details of the active projects in 2007.

TABLE 2: Active projects 2007

ACTIVE PROJECTS 2007							
NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
1.	SENSATION	IST (IST-507231)	Advanced sensor development for attention, stress, vigilance & sleep/ wakefulness monitoring	E. Bekiaris	1.346.685	1/1/2004 30/04/2008	COORDINATOR
2.	PREVENT	IST (FP6-507075)	Preventive and Active Safety Applications	E. Bekiaris	598.755	1/2/2004 31/1/2008	PARTNER
3.	PREMIA	DG TREN (TREN/04/FP6EN/ s07.31083/503081)	R&D, demonstration and incentive programmes effectiveness to facilitate and secure market introduction of alternative motor fuels	E. Bekiaris	137.360	1/5/2004 30/4/2007	PARTNER
4.	AIDE	IST (IST-1-507674-IP)	Adaptive Integrated Driver-vehicle Interface	E. Bekiaris	546.810	1/3/2004 28/2/2008	PARTNER

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
5.	HUMANIST	IST (507420)	HUMAN centered design for Information Society Technologies	E. Bekiaris	180.645	1/3/2004 29/2/2008	PARTNER
6.	EUR2EX	6th FP NOE	European Rail Research network of Excellence	Ch. Pyrgidis	30.838	1/1/2004 31/12/2007	PARTNER
7.	HYWAYS	DG TREN (DG TREN 502596)	The Development and Detailed Evaluation of a Harmonised "European Hydrogen Energy Roadmap"	E. Bekiaris	116.800	1/4/2004 31/3/2007	PARTNER
8.	ASK-IT	IST (IST-2003-511298)	Ambient Intelligence System of Agents for Knowledge-based and Integrated Services for Mobility Impaired users	E. Bekiaris	1.055.591	1/10/2004 30/9/2008	TECHNICAL MANAGER
9.	INTUITION (NOE)	IST (IST-NMP-1-507248-2)	Network of Excellence on VIrtual Reality aNd VirTUal Environments AppIIcaTIONs for Future Workspaces	E. Bekiaris	216.500	1/9/2004 31/8/2008	PARTNER
10.	RIPCORD	TREN-04-FP6TR-SO7.36406/506184	Road infrastructure safety protection – Core- Research and Development for Road Safety in Europe / Integrating and Strengthening the European Research Area (2002-2006), Sustainable Surface Transport	E. Bekiaris	142.250	1/1/2005 31/12/2007	PARTNER
11.	IN-SAFETY	TREN-04-FP6TR-SO7.38213/506716	Infrastructure and Safety	E. Bekiaris	443.285	1/2/2005 31/1/2008	PARTNER
12.	MISS	TST3-CT-2004-516235	Monitor Integrated Safety System	Y. Tyrinopoulos	140.525	1/1/2005 30/6/2007	PARTNER
13.	GRACE	TH/ASIA PRO ECO/03 (101300)	Integrating Environmental Concepts in the Asian Maritime Transport Policy	Y. Tyrinopoulos	160.019	7/6/2005 6/6/2007	COORDINATOR
14.	Municipality of Trikala	Municipality of TRIKALA	Technical Consultant for the management and supervision of the ITS study	G. Aifadopoulou	51.941	14/7/2005 31/05/2007	SUBCONTRACTOR
15.	REORIENT	Institute of Transport Economics (TOI)	Implementing Change in the European Railway System	G. Aifadopoulou	152.880	18/4/2005 17/4/2007	SUBCONTRACTOR

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
16.	KOMVOS	GSRT	Infrastructures in order to support the research in the Transport sector: Development of a PORTAL for transport data management and processing in HIT	G. Aifadopoulou	1.275.039	1/10/2005 31/10/2007	LEAD PARTNER
17.	AKMON	GSRT	Integrated digital system for the provision of routing and distribution services from HIT	G. Giannopoulos	355.350	1/10/2005 30/9/2007	LEAD PARTNER
18.	TRANS-AID	MARIE CURIEMTKD-CT-2004-517191	Transfer of Knowledge in Transport Infrastructure Financing	Y. Tyrinopoulos	39.531	26/4/2005 25/4/2008	PARTNER
19.	HILAS	IP (AIP4-CT-2005-516181)	Human Integration into the Lifecycle of Aviation Systems	E. Bekiaris	126.901	1/6/2005 31/5/2009	PARTNER
20.	VIRTHUALIS	IPNMP2-CT-2005-515-831	Virtual Reality and Human Factors Applications for Improving Safety	E. Bekiaris	433.560	1/5/2005 30/4/2009	PARTNER
21.	GOODROUTE	EU	Dangerous Goods Transportation Routing and Monitoring	E. Bekiaris	682.430	1/1/2006 31/12/2008	COORDINATOR
22.	HUMABIO	EU	Human Monitoring and Authentication using Biodynamic Indicators and Behavioural analysis	E. Bekiaris	327.640	1/1/2006 30/6/2008	COORDINATOR
23.	SAFESPOT	EU	Cooperative systems for road safety «Smart Vehicles on Smart Roads	G. Aifadopoulou	200.845	1/1/2006 31/12/2009	PARTNER
24.	ARISTEIA	GSRT	Support to HIT for infrastructure for Excellence in research	G. Giannopoulos	365.920	1/1/2006 31/12/2007	LEAD PARTNER
25.	SUPREME ΔΕΜ	Kfv	Summary and publication of best practices in road safety in the Member States of the European Union and in Norway and Switzerland	E. Bekiaris	6.300	18/12/2005 17/6/2007	SUBCONTRACTOR
26.	PEPPER	EU	POLICE ENFORCEMENT POLICY AND PROGRAMMES ON EUROPEAN ROADS	E. Bekiaris	357.347	1/3/2006 31/8/2008	PARTNER
27.	PROMIT	EU	Promote Innovative Intermodal Freight Transport	Y. Tyrinopoulos	245.824	1/3/2006 28/2/2009	PARTNER

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
28.	WATCH-OVER	EU	Vehicle-to-Vulnerable road user cooperative communication and sensing technologies to improve transport safety	E. Bekiaris	255.443	1/1/2006 31/12/2008	PARTNER
29.	RESCUE	RCM	A Catastrophe Response and recovery transport and logistics decision support system	G. Aifadopoulou	150.000	31/12/2005 30/04/2007	SUBSIDY
30.	HAPPY TOURIST ΔΕΜ	EU, Leonardo Da Vinci Programme	Holistic application to effectively train touristic services staff in accessibility issues	E. Bekiaris	12.605	1/2/2006 31/10/2007	SUBCONTRACTOR
31.	TRACE ΔΕΜ	University of Patras	TRaffic Accident Causation In Europe	E. Bekiaris	56.000	1/4/2006 31/12/2007	SUBCONTRACTOR
32.	REVITA	INTERREG III B-CADSES	Development of small and medium-sized railway stations into multipurpose local service centers	G. Giannopoulos	188.840	1/5/2006 1/6/2008	PARTNER
33.	CATER	EU	Computerized Automotive Technology Reconfiguration System for Reverse Engineering and Mass Customization	E. Bekiaris	517.069	1/9/2006 31/8/2009	PARTNER
34.	SECURMED ΔΕΜ	EUROCONSULTANTS	«SECUR MED - Approche interrégionale et transnationale en matière de sécurité maritime et de défense de l'environnement dans la Méditerranée Occidentale (Medocc)»	G. Aifadopoulou	20.000	1/9/2006 30/6/2007	SUBCONTRACTOR
35.	TRAINALL	SUSTDEV-FP6	Integrated System for driver Training and Assessment using Interactive education tools and New training curriculum	E. Bekiaris	312.619	1/11/2006 31/10/2009	COORDINATOR
36.	FREEMED	INTERREG III B-ARCHIMED	New monility sceneries in the FREE trade zone in MEDiterranean basin	G. Aifadopoulou	183.562	1/6/2006 31/12/2007	PARTNER
37.	MULTIGATE	INTERREG III B-ARCHIMED	MULTI-modal transport passenger information systems for metropolitan GATEways	G. Aifadopoulou	197.900	1/6/2006 31/12/2007	PARTNER
38.	FREIGHTWISE	EU	Management framework for Intelligent Intermodal Transport	G. Giannopoulos	272.052	1/11/2006 30/4/2010	PARTNER

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
39.	LIMES	EU	Land/sea Integrated monitory for European security	G. Aifadopoulou	28.300	1/12/2006 31/5/2010	PARTNER
40.	IN MOSION	SSP FP6	Science Shop for Innovative Mobility Solutions for Mobility Challenged Europeans	G. Aifadopoulou	50.000	1/1/2007 30/6/2009	PARTNER
41.	DRUID	EC FP 6	Driving under the Influence of Drugs, Alcohol and Medicine	E. Bekiaris	431.834	15/10/2006 14/10/2010	PARTNER
42.	BOB Campaign 2006	DG TREN	"BOB"- Campaign in Greece	E. Bekiaris	139.248	1/9/2005 28/2/2007	PARTNER
43.	Eabilities	FP6-2005-IST-5	A virtual platform to enhance and organise the coordination among centers for accessibility resources and support	E. Bekiaris	136.725	1/9/2006 31/8/2008	PARTNER
44.	OSE - SEECP	OSE	Provision of technical support to the Greek Railways in the framework of the South East Europe Cooperation Process (SEECP) for the establishment of a high performance railway network in South East Europe	G. Aifadopoulou	157.500	14/11/2006 13/9/2008	LEAD PARTNER
45.	PERSONA	ANKO AE	PERceptive Spaces prOmoting iNdependent Aging «PERSONA»	E. Bekiaris	20.000	2/4/2007 31/5/2010	SUBCONTRACTOR
46.	Simulator	Hellenic Ministry of Transport & Communiations	Disposal and operation of one driving simulator in the kiosk of Ministry of Transports and Communications in the International exhibition of Auto	G. Giannopoulos	12.500	9/5/2007 30/9/2007	LEAD PARTNER
47.	POLYMETREX	Organization of planning and environmental protection of Athens	POLYMETREXplus INTERREG IIIC "Towards a Polycentric Metropolitan Europe – Consulting to the Organization of planning and environmental protection of Athens"	G. Aifadopoulou	50.000	26/6/2007 31/12/2007	SUBCONTRACTOR

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
48.	POLYMETREX	Organization of planning and environmental protection of Thessaloniki	POLYMETREXplus INTERREG IIIC "Towards a Polycentric Metropolitan Europe – Consulting to the Organization of planning and environmental protection of Thessaloniki"	G. Aifadopoulou	50.000	20/7/2007 31/12/2007	SUBCONTRACTOR
49.	Society of Information	ITE	Access of ADAS in the services of Electronic Governing of the Society of Information	E. Bekiaris	90.000	6/7/2007 5/1/2009	SUBCONTRACTOR
50.	ITS	Urban Public transport bus system of Kerkyra	Provision of consultancy services to the Kerkyra interurban transport operator in the framework of the ITS programme in road transport	Y. Tyrinopoulos	14.000	15/7/2007 31/1/2008	SUBCONTRACTOR
51.	TEO	National Highway Fund	Management of the dangerous goods transport via tunnels	G. Giannopoulos	125.000	4/6/2007 4/3/2008	SUBCONTRACTOR
52.	PROOHF	INTERREG III B-ARCHIMED	PROtect Our Heritage from Fire	G. Aifadopoulou	70.000	1/5/2007 31/7/2008	PARTNER
53.	comm GROUP		Disposal and operation of one driving simulator in the kiosk of Ministry of Transports and Communications in the 72nd International fair of Thessaloniki	G. Giannopoulos	6.500	3/9/2007 2/10/2007	SUBCONTRACTOR
54.	ANATOLIKI S.A.		Development and operation of a Mobility Center in the Municipality of Kalamaria in the framework of the project MOBINET	Y. Tyrinopoulos	15.000	1/12/2007 30/6/2009	SUBCONTRACTOR
55	TEDK		Extension of OASTH routes in Municipalities in Thessaloniki that are not covered by the existing network of urban transport	G. Aifadopoulou	22.000	1/12/2007 31/1/2008	SUBCONTRACTOR
56.	TRANSFORUM	6th FP POLICIES-3.2	Scientific forum on transport forecast validation and policy assessment	G. Giannopoulos	76.660	15/12/2004 14/2/2007	PARTNER
57.		Hellenic Ministry for the Environment, Physical Planning & Public Works	Consultant of the Ministry for the operational and marketing planning of the Electronic Road Matrix	G. Aifadopoulou	125.000	13/3/2006 30/6/2007	SUBCONTRACTOR

Publications by HIT's Scientific Personnel during 2007

A. Publications in Books & Journals

1. **Giannopoulos, G.A., Giannakos, K.**, (2007), *"Restructuring the Greek Railways: Current progress and evaluation of alternative schemes"*, Transport Reviews, Vol. 27, No. 3, pp. 355-378, May 2007.
2. **Giannopoulos, G.A.**, *«Training and research in the field of transport: Administrative and funding issues in Greece and Europe, a comparative approach»*, Comparative Technology Transfer & Society Journal (CTTS), special issue *«The Technology Transfer Specialist: Education & Training Needs»* (to be published).
3. **Aifadopoulou G.**, *"Facilitating Trade along panEuropean corridors n° X, V and Adriatic Ionian via planning of freight and logistics centres: the IMONODE project recommendations"*, Report of the 134th Round Table on Transport Economics 'Market access, trade in transport services and trade facilitation', ECMT 2007.
4. **G. Aifadopoulou, A. Ziliaskopoulos, E. Chrysochoou**, *"A multi-objective optimum path algorithm for passenger pre- trip planning in multimodal transportation networks"*, Journal of the Transportation Research Board (2007) (has already been accepted for publication).
5. **Tyrinopoulos Y., Morfoulaki M., Aifadopoulou G.**, *"Estimation of Satisfied Customers in Public Transport Systems: A New Methodological Approach"*, Journal of the Transportation Research Forum, pp. 63-72, Volume 46, No. 1, Spring 2007.
6. **Tyrinopoulos Y., Aifadopoulou G.**, *"A Complete Quality Control Methodology for the Passenger Services in the Public Transport Business"*: Journal of European Transport (Transporti Europei). (Paper accepted).
7. **Ringbauer, B., Peissner, M., Gemou, M.**, *"From "Design for all" towards "Design for one"* – a modular user interface approach", in Universal Access in Human Computer Interaction, Ambient Interaction, Lecture Notes in Computer Science, Vol.5, part I, pp517-526, 2007, Springer, ISSN0302-9743.
8. **Danielsson, L., Lind, H., Bekiaris, E., Gemou, M., Amditis, A., Miglietta, M., Stålberg, P.**, *"HMI Principles for LATERAL SAFE Applications"*, in Universal Access in Human Computer Interaction, Ambient Interaction, Lecture Notes in Computer Science, Vol.6, part II, pp330-338, 2007, Springer, ISSN0302-9743
9. **Bekiaris, E., Panou, M., Tsioutras, A.**, *"The use of modern tools and methods for driving training"*, Thessaloniki, Greece, 2007, ISBN 978-960-930008-7.
10. **M. Panou, E. Bekiaris, V. Papakostopoulos**, *"Modelling Driver Behaviour in EU and International Projects"*, Contribution in *"Modelling Driver Behaviour in Automotive Environments, Critical Issues in Advanced Automotive Systems and Human-Centred Design"*, with editors P.C. Cacciabue and C. Re, Springer-Verlag London Limited, 2007, p. 3-25.
11. **Panou, M., Bekiaris, E., Mousadakou, A.**, *"E&D travellers needs in infomobility services"*, in Universal Access in Human Computer Interaction, Ambient Interaction, Lecture Notes in Computer Science, Vol.1, part I, pp853-860, 2007, Springer, ISSN0302-9743.
12. **Bekiaris, E., Panou, M., Garcia Robledo, M.**, *"Towards an accessible Europe"*, in Universal Access in Human Computer Interaction, Ambient Interaction, Lecture Notes in Computer Science, Vol.2, part II, pp527-535, 2007, Springer, ISSN0302-9743.
13. **Jap, B.T., Lal, S., Fischer, P., Bekiaris, E.**, *«Using spectral analysis to extract frequency components from Electroencephalography: Application for fatigue countermeasure in train drivers"*, In: Advances in Broadband Communications and Networks, Agbinya, J.I., Sevimli, O., Reisenfeld, S., Li., Y. and Lal, S. (eds.).
14. **Bekiaris, E., Panou, M., Tsioutras, A.**, *«The usage of modern tools and methods for drivers' training"*, Thessaloniki, Greece 2007, ISBN 978-960-930008-7
15. **Panou, M., Bekiaris, E., Papakostopoulos, V.**, *"Modeling Driver Behaviour in EU and International Projects"*, In: Modelling Driver Behaviour in Automotive Environments, Critical Issues in Advanced Automotive Systems and Human-Centred Design, P.C. Cacciabue and C. Re (eds.), Springer-Verlag London Limited, 2007, p. 3-25.



B. Publications in Conferences

1. **Giannopoulos, G.A.**, *"Road Safety in countries with less developed infrastructures: Issues and actions to maximize effect with minimum resources"*, Keynote speech Road Safety on Four Continents Conference, Bangkok, Thailand, 14-16 November, 2007.
2. **Giannopoulos, G.A.**, *"Transport research cooperation issues between EU and US"*, Conclusions of a special Session organised and Chaired by Prof Giannopoulos on same subject, at the WCTR 2007 Conference, Berkeley, June 24-28, 2007.
3. **Bekiaris, E., Kalogirou, K., Panou, M.**, *'Personalised infomobility services within ASK-IT project'*, ITS Word 2007, in CD proceedings, Beijing, China.
4. **Panou, M., Bekiaris, E.**, *'Towards the development of an ADAS/IVICS training module for driving simulators'*, ITS Word 2007, in CD proceedings, Beijing, China.
5. **Amditis, A., Pagle, K., Tsogas, M., Bekiaris, E., Panou, M., Helene Tattegrain Veste, Thierry Bellet, Serge Boverie, Matti Kutila, Gustav Markkula**, *"A real time platform for estimating the driver–vehicle–environment state in AIDE IP"*, ITS Word 2007, in CD proceedings, Beijing, China.
6. **Panou, M., Bekiaris, E.**, *'A new concept on the integration of driving simulators in driver training – The TRAIN-ALL approach'*, 14th International Conference on Road Safety in Four Continents, in 'Abstracts of Conference papers', p.82, 14-16 November, Bangkok, Thailand.
7. **Bekiaris, E., Gaitanidou, E., Kalogirou, K., Spanidis, P.**, *"Personalized System for In-Vehicle Transmission of VMS information – Design, Implementation and Testing within the Context of the IN-SAFETY project"*, 14th International Conference Road Safety on Four Continents, Bangkok, Thailand 14-16 November 2007.
8. **Panou, M., Bekiaris, E.**, *"A New Concept on the Integration of Driving Simulators in Driver Training – The TRAIN-ALL Approach"*, 14th International Conference Road Safety on Four Continents, Bangkok, Thailand 14-16 November 2007.
9. **Bekiaris, E., Kalogirou, K., Panou, M.**, *"Personalised infomobility services within ASK-IT project"*, 14th World Congress on Intelligent Transport Systems, Beijing, P.R.China, 9-13 October 2007.
10. **Amditis, A., Pagle, K., Tsogas, M., Bekiaris, E., Tattegrain Veste, H., Bellet, T., Boverie, S., Kutila, M., Markkula, G.**, *"A real time platform for estimating the Driver - Vehicle - Environment state in AIDE Integrated Project"*, 14th World Congress on Intelligent Transport Systems, Beijing, P.R.China, 9-13 October 2007.
11. **Panou, M., Bekiaris, E.**, *"Towards the development of an ADAS/IVICS training module for driving simulators"*, 14th World Congress on Intelligent Transport Systems, Beijing, P.R.China, 9-13 October 2007.
12. **Nikolaou, S., Bekiaris, E.**, *"Multimedia Training Tool for drivers' training on in-vehicle ADAS/IVIS"*, 14th World Congress on Intelligent Transport Systems, Beijing, P.R.China, 9-13 October 2007.
13. **Patrinos, A., Tzovaras, D., Bekiaris, E.**, *"Real Time Decision Support System for the Routing of Dangerous Goods Vehicles"*, 14th World Congress on Intelligent Transport Systems, Beijing, P.R.China, 9-13 October 2007.
14. **Amditis, A., Varalda, G., Saluaar, D., Mantzouranis, I., Loupos, K., Bekiaris, E.**, *"How VR supports the development of ADAS – IVIS and intelligent transportation systems"*, 14th World Congress on Intelligent Transport Systems, Beijing, P.R.China, 9-13 October 2007.
15. **Chouvarda, I., Papadelis, Ch., Kourtidou-Papadeli, Ch., Bamidis, P., Koufogiannis, D., Bekiaris, E., Maglaveras, N.**, *"Non-linear analysis for the sleepy drivers problem"*, 12th International Health (Medical) Informatics Congress, MEDINFO 2007, 20-24 August 2007, Brisbane, Australia.
16. **Bekiaris E.**, *"Using micro and nano-sensors to capture the involuntary wakefulness to sleep transition of healthy people"*, Proc. of the 4rth Personalised Healthcare conference (pHealth 2007), Chalkidiki, Greece, 20-22 June 2007.
17. **Lu, M., Wevers, K., Alessandretti, G., Damiani, S. and Bekiaris, E.**, *"Exploring feasibility of safety related driving assistance systems"*. In Proceedings: 86th Transportation Research Board Annual Meeting, Washington D.C., 21-25 January, 2007.
18. **Pelkmans, L., Govaerts, L., Portouli, E., Christidis, P., Laurikko, J., Georgopoulos, P.**, *"Assessment of Measures to support biofuel introduction in European countries"*, 15th European Biomass Conference and Exhibition, 7-11 May 2007, Berlin, Germany.

19. **Gagatsi E.**, Review of Maritime Transport Safety and Security Practices and Compliance levels: case studies in Europe and South East Asia, Young Researchers Seminars (YRS) 2007, Brno, Czech Republic, 27 to 30 May 2007.
20. **Gagatsi E., Tyrinopoulos Y.**, *«Port policy and critical factors for increasing competitiveness: the Greek case»*, World Conference on Transport Research 2007 (WCTR 2007) June 25, 2007.
21. **Antoniou C., Gagatsi E., Tyrinopoulos Y.**, *"Technological innovation in multimodal freight transport: key to growth and competitiveness"*, 1st International Scientific Conference: Competitiveness and Complementarity of Transport Modes - Perspectives for the Development of Intermodal Transport, University of the Aegean, Chios, May 11, 2007.
22. **Kyriacos C. Mouskos, Athanasios K. Ziliaskopoulos, Evangelos A. Mitsakis, Curtis Barrett, Tommaso Bonino**, *"Off-line risk assessment and incident impact traffic flow estimation techniques for a monitor integrated road safety system"*, ITS 2007 Denmark-Aalborg, 6th European Congress on Intelligent Transport Systems and Services Aalborg, Denmark, 18-20 June 2007.
23. **Evangelos Mitsakis, Athanasios Ziliaskopoulos**, *"Dynamic Traffic Assignment in Network Control and Signalization"*, INFORMS Annual Meeting 2007, Seattle, Washington, U.S.A., 4-7 November 2007.
24. **Haralampous G, Ayfandopoulou G**, *"Optimisation of rail freight operations along the network of the Western Balkans"*, 11th World Conference on Transportation Research, WCTRS2007, Berkley California 24-26 June 2007.
25. **Margaritis, D.**, *"Accident analysis into the primary and secondary safety of city trams in The Netherlands"*, European Transport Conference, 17 - 19 October 2007, Noordwijkerhout, The Netherlands.

C. Presentations in Conferences

1. **Haralampous G**, *"Maritime Safety and environmental protection in Eastern Aegean"*, 5th Thematic Seminar, Transregional and transnational approach in Maritime safety and protection of the environment in Western Mediterranean, Rhodes, March 2007.
2. **Haralampous G**, *"Maritime Safety and environmental protection, The SECURMED project Experience, the Greek case"*, SECURMED project final conference, Genova October 2007.
3. **Margaritis, D.**, *"Heavy Good Vehicle Traffic Accidents and Actions to promote Traffic Safety"*, International Week on Transport Safety, Road Safety in Freight Transports (Transport Companies Association in Northern Greece), Thessaloniki, 21.04.07.



EDUCATIONAL ACTIVITY

Participation in the Postgraduate Studies Program «Planning, Organization and Management of Transport Systems»

The objectives that are referring to Planning, Organization, and the Management of Transport Systems in local, regional, national, and international scale are of high priority in the future prospects of Greece. Therefore, HIT is one of the three co-organising entities of the Postgraduate Course: "Planning, Organization and Management of Transport Systems", which is jointly organized by HIT and the Civil and Rural & Surveying Engineering Departments of the Aristotle University of Thessaloniki.

For more information please visit: **http://hermes.civil.auth.gr/pgtransport**





HIT Collaboration with the National Centre for Public Administration and Local GOVERNMENT (N.C.P.A.)

During 2007, HIT in collaboration with the National Center of Public Administration and Local Government (N.C.P.A.), and specifically the Institute of Training, has co-organized numerous educational seminars, whose object mainly concentrated on the "Traffic Control in the Urban Regions".

In the organized seminars, the educational material, concerning the enhancement of the road safety in the road construction places, which was researched in the framework of "PREVENT" project by HIT, was thoroughly presented.

Specifically, the remittance of the organized seminars was the training of the workers of Public Authorities, and especially engineers and Municipal Police Officers and Traffic Policemen. The duration of every seminar was five days, and the thematic area of the Institute covered approximately one day. The presented by HIT material, concerned in terms of the theoretical part, the existing specifications for the measures and appropriate processes that ensure safety conditions in road worksites, while the analytic presentation of the electronic tool aimed in the proper practical application of the pre-referred. With the use of specially designed software programmes, the trainee can graphically place the right signalling / labelling in the different types of road worksites, and, at the same time, been evaluated for his comprehension of the initial specifications.

More concretely, during 2007, the following seminars were carried out:

- Athens 16/3/2007, "Road Safety in Road Work Zones:
  The Educational Material PREVENT", *initiators Dr. Maria Morfoulaki, Mrs. Foteini Mikiki.*
- Thessaloniki 8/5/2007, "Road Safety in Road Work Zones:
  The Educational Material PREVENT", *initiators Dr. Maria Morfoulaki, Mrs. Foteini Mikiki.*
- Kozani 8/6/2007, "Road Safety in Road Work Zones:
  The Educational Material PREVENT", *initiators Dr. Maria Morfoulaki, Mrs. Foteini Mikiki.*
- Larissa 24/9/2007, "Road Safety in Road Work Zones:
  The Educational Material PREVENT", *initiators Dr. Maria Morfoulaki, Mrs. Foteini Mikiki.*
- Patra 12/10/2007, "Road Safety in Road Work Zones:
  The Educational Material PREVENT", *initiators Dr. Maria Morfoulaki, Mrs. Foteini Mikiki.*
- Thessaloniki, teleconference with Athens and Patra 14/12/2007, "Road Safety in Road Work Zones:
  The Educational Material PREVENT", *initiators Dr. Maria Morfoulaki, Mrs. Foteini Mikiki.*



FINANCIAL RESULTS

The basic economic data of HIT's activity for 2007 are shown in Table 3 and schematically presented in Figure 13.

TABLE 3: Financial results 2007 (Euros)

FINANCIAL RESULTS 2007	
INCOME RESOURCES	**2007**
On going projects (no of projects)	57
Total Budget of EU funded research projects	1.425.243,51
Total Budget of GSRT funded research projects	1.297.262,90
Total Budget of National funded research projects	111.372,00
Income from Services	409.662,85
Total annual turnover	3.299.538,87

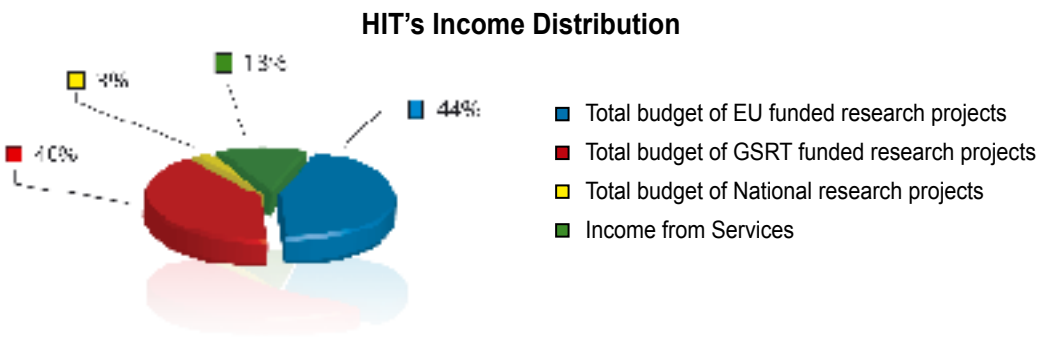


Figure 13: HIT's income distribution by source.

Table 3 shows that the main income resource of HIT for 2007 was the EU research projects (44%), while the GSTR funded research projects constituted the 40% of the total budget. As far as income from Services and National funded research projects are concerned, these are 13% and 3% correspondingly.

It's worth mentioning that the governmental support in HIT's income is still low (25,6 %) which sets off the increased contribution of the other income resources of the Institute. It is obvious that during 2007 HIT shows an increase in its income resources deriving from its research activity.

The low reduction in the total budget of the annual turnover is unquestionably owned to the payment way of the HIT's active projects, for which the advanced payments were given in 2006 while their final payment is arranged to be completed during the first quarter of 2008.

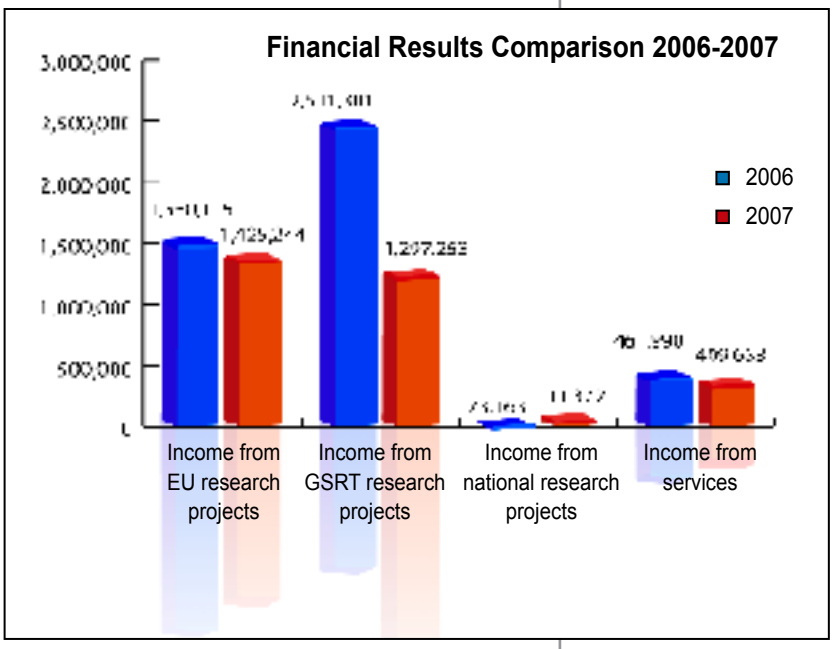


Figure 14: Income comparison 2006-2007 by source.

INTERNATIONAL COOPERATION AND DISSEMINATION ACTIVITIES

International Cooperation

ECTRI – European Conference of Transport Research Institutes

In January 2003 the European Conference of Transport Research Institutes- ECTRI was officially established as an international non-profit Association under French law, in Lyon, France. HIT constitutes a founding member of ECTRI.

In January 2003 the Director of HIT, Prof. Giannopoulos, was elected president of ECTRI for the period 2003-2005, and in March 2005 was re-elected for the period 2005-2007.

SETREF – South East European Transport Research Forum

The South East European Transport Research Forum (SETREF) is an international non-governmental and non-profit association of organizations in South East European countries devoted to the promotion of transport research and education. It was established in Thessaloniki, Greece, in April 1997 and its headquarters are in Thessaloniki within the building of HIT.

SETREF has currently 33 member Organizations, with most of which HIT has close relations.

For more information please visit: **http://hermes.civil.auth.gr/setref**

ERTICO – European Road Transport Telematics Implementation Co-ordination Organization

ERTICO is a Europe-wide, not-profit, public/private partnership for the implementation of Intelligent Transport Systems and Services (ITS) in Europe. It was established in 1991 at the initiative of the European Commission as well as key members of the European ITS industry and national governments. ERTICO is open to any European organisation or international organisation operating substantially in Europe. ERTICO's mission is to promote and support the implementation of Intelligent Transport Systems and Services (ITS) in Europe, ensuring sustainable mobility, travel satisfaction and high economic returns. By joining ERTICO, organisations can work more effectively together and achieve vital synergies across sectors and across national boundaries to create a dynamic and successful European ITS market.

CERTH became the first Greek institution joining ERTICO in 2003 with its two Institutes, HIT and ITI.

FERSI – Forum of European Road Safety Research

The Forum of European Road Safety Research Institutes (FERSI) was established in 1991 to bring together these national research organisations to provide a common focus for road safety research at the European level.

HIT became a member of FERSI in 2004.

EUROPEAN ENVIRONMENT AGENCY

The Hellenic Institute of Transport constitutes the National Report Centre for the European Environment Agency since 2001. Specifically, HIT's main contribution involves the accurate annotation of data that form the European Environmental Indicators, which evaluate the interaction between transports and environment.

Cooperations in Greece

In Greece HIT has a permanent cooperation with AUTh and specifically with the Transport Research Laboratory, Civil Engineering Dept., as well as with the Transport Research Team of the Rural and Surveying Dept. This cooperation constitutes mainly on the participation of HIT in the organization and conduct of the Postgraduate Program on Transportation, which was launched (for the first time in Greece) in September 2003, but also in common research projects.

HIT also cooperates systematically with the Hellenic Institute of Transportation Engineers (SES) co-organizing the International Conference on Transportation Research in Greece that takes place every two (2) years. They also cooperate for a number of other Conferences and events.

Finally, by carrying out for them studies and research programs, HIT cooperates with all the main institutions of the country in the field of transport., such as the Ministry of Transport, the Ministry of Aegean, the Ministry of Environmental, Planning and Public Works, the Region of Central Macedonia, OSE, OASA, SASTh, OLTh, etc.

Dissemination Activities

In the context of its promotion and work acknowledgment, HIT organizes every year conferences and meetings on issues relating to its scientific fields, participates in relevant exhibitions and cooperates with scientific magazines.

At the same time, the viewpoints and stances of HIT as a National Institution for Transports in Greece are expressed through a number of media interviews. The previously referred HIT's dissemination activities for the year 2007 are thoroughly presented in the following sections.

Organization of Conferences – Meetings

1st Intermodal Innovation Conference, Antwerp, March 2007





The Hellenic Institute of Transport, the consortium of the project PROMIT (Promoting Innovative Intermodal Freight Transport) and the European Intermodal Association (EIA) with the support of the Institute of Transport and Maritime Management Antwerp (ITMMA) and the Port of Antwerp organized the first Intermodal Innovation Day Conference on "Promoting Intermodal Freight Transport in Europe: Innovation and best practice examples". The Conference took place at the ITMMA premises in Antwerp on the 15 and 16 March of 2007.

This Conference is the first out of a series of relevant annual events, which are scheduled during the three years of the PROMIT project length, aiming at the ανάδειξη of innovations and most optimal practices and applications in intermodal transport, and thus attracting not only common users, but also experts in the intermodal transport field.

Conference's attendance level was particularly high, reaching the 120 participants from the Intermodal Transport field of all over Europe. Numerous innovative and interesting solutions were presented from several Institutions, namely: B-Cargo, Ewals Cargo Care, FATA / Finmechanicca Group, Via Donau, as well as other known members of the European intermodal transport system. The Conference participants had the opportunity, apart from been informed on the subjects relative to intermodal transport, and on EU's Freight Transport Logistics Communication / Action Plan 2007, to participate in a technical visit at the port of Antwerp.

Finally, the Conference concluded with a round table discussion about the future of Europe's intermodal transport system, in which representatives of all the fields of the intermodal transport (e.g. industry, EU, academic representatives etc.) attended.

South-East European Cooperation Process (SEECP) Meetings, Athens-May 2007, Istanbul-December 2007

The Hellenic Institute of Transport attended the 2nd and the 3rd Session of the Inter-Balkan Collaboration, which took place on the 17th of May 2007 in Athens and on the 11th of December 2007 in Istanbul correspondingly. The main objective of these two Sessions was to reinforce the positive outcome of the Inter-Balkan Collaboration, fundamental provision of which is the construction of a high-level-specification railway network that could be competitive to the other means of transport and could decrease the estimated route duration between urban and commercial centers.

Apart from HIT and the railway companies of the countries that were involved in the project, many other executives of the corresponding Transport Ministries also attended. During the discussions, the progress of the Collaboration was presented, whist the future prospects were thoroughly investigated.

The 3rd Session was completed with the decision of organizing in the nearby future an event that would diffuse Session's conclusions, in an attempt to attract the interest of large financial constitutions for financing the necessary projects.

Cooperation with Scientific Magazines

HIT, in the frame of its public relation policy and its contribution in the research and development of freight transport and logistics, keeps a permanent column in the magazine Supply Chain and Logistics (previously called Deposit & Transport), which is addressed to a substantially wide target market and industry group of the freight transport and logistics. This column mainly concerns the outline of HIT's viewpoints and opinions on state-of-the-art subjects, as well as the publication of HIT's research results activities.

During 2007, the following 5 articles were published in the pre-referred magazine:

- «Need for systematic assistance and monitoring of dangerous goods transportation and activation of emergency services», Supply Chain & Logistics, January 2007.
- «Development of a framework for Intelligent Intermodal Transport - The research project Freightwise», Supply Chain & Logistics, March 2007.
- «Free Trade Euro- Mediterranean Zones: Another challenge for the Greek logistic chain», Supply Chain & Logistics, May 2007.
- «The challenges in the Research of Transports by the Globalisation of Trade and the consequences to the Logistics services.
- «Logistics, energy and environmental changes», Supply Chain & Logistics, September 2007.
- «Road Safety and the Strategic Program of the Road Transport Research - the ERTRAC platform», November 2007.

Participation in exhibitions

During 2007 HIT participated in ten exhibitions, in which the wide public had the opportunity to be familiarized with HIT's research work and equipment, and especially with the driving simulator. These exhibitions were the following:

1st International Exhibition for Supply Chain and Logistics, 9-12/2/2007, Olympic Facilities, Fencing Installation, Athens.

- Police Exhibition for Road Safety at the island of Chios, 21-26/3/2007, General Trade Exhibition.
- 1st International Week for Road Safety, Greek Ministry of Transport and Communications, 23-29/4/2007, Athens.
- 7th International Motor Show in the Pavillion of the Ministry of Transport and Communications, 12-20/5/2007, Athens.
- 72nd International Trade Fair of Thessaloniki, 8-16/9/2007.
- Police Exhibition for Road Safety at the City of Ghalkida, 17-21/10/2007.
- Police Exhibition for Road Safety at the City of Veroia, 25-29/10/2007.
- Police Exhibition for Road Safety at the City of Kilkis, 19/11/2007.
- HITs participation at 1st High Tech Ecomobility Rally Athens - Nafplio - Athens, with two hybrid cars, 10-11/11/2007.
- Police Exhibition for Road Safety at the City of Drama, 20/11/2007.

CERTH/HIT at Greek Mass Media 2007 (Indicatively)

- Broadcast of the TV spot against drinking and driving in 23 TV stations and a Christmas radio spot, both with the participation of Giorgos Tsalikis in 60 radio stations, for the period 18/12/2007 to 20-1-2008.
- "Road safety and the strategic program of EU for transport research" Interview of Prof. Giannopoulos, Supply Chain and Logistics Magazine, 14-12-2007.
- "Athens – Nafplio with 4,5 litres / 100 kilometres. The important participation of HIT with two hybrid cars in the 1st High Tech Ecomobility Rally." Web-newspaper www.hellastoday.gr. 13/12/2007.
- "Athens – Nafplio with 4,5 litres / 100 kilometres. The important participation of HIT with two hybrid cars in the 1st High Tech Ecomobility Rally." Web-newspaper www.automotorpress.gr, 13/12/2007.
- "Athens – Nafplio with 4,5 litres / 100 kilometres. The important participation of HIT with two hybrid cars in the 1st High Tech Ecomobility Rally." Web-newspaper www.msfree.gr, 14/11/2007.
- "Driving simulation under the influence of alcohol, BOB-Campaign in Greece", Interview of A. Tsioutras to Christa Ntzani, Today in Thessaloniki Newspaper, 5-12-2007.
- "Alarm clock for drivers is almost ready by HIT", Interview of Dr. Bekiaris, Logistics and Management Magazine, 30-11-2007.
- "How the SUV's are engaged in cities traffic problems", Interview of A. Tsioutras to Malama Kiakilidou, TV - Macedonia News, 16-11-2007.

- "The driving simulator has captured audience interesting", School for Nurses of the Veroia Hospital, under the frame of Veroia Traffic Police Exhibition for Road Safety. Laos Newspaper, 2-11-2007.
- "Interview of G. Aifadopoulou to A. Kolokotronis" Night Newspaper, TV-100, 24-10-2007.
- "The road traps of Thessaloniki", Interview of G Aifadopoulou to Sotiris Kiriakidis, Skai TV News, 24-10-2007.
- "HIT's driving simulators and the benefits by them", Interview of A. Tsioutras to Niki Xatzimeletiou, TV – show "Morning Complete", TV-Macedonia, 16-10-2007.
- "The amazing reduction of traffic violations after the realisation of the new traffic law – The need for traffic education in schools", Interview of Z. Kosmas, A.Tsioutras, N. Iliou to Ntonia Kanitsaki, Aggelioforos Newsapaper, 14-10-2007.
- "Hellenic Institute of Transport: Driving simulation under the influence of alcohol abuse". Interview of A. Tsioutras to Pantelis Tzertzevelis, Web-Newspaper www.hellastoday.gr, 8-10-2007.
- "HIT's profile and actions" Interview of Prof. G. Giannopoulos to Terens Kouik, Morning TV-Show, ALTER - TV, October 2007.
- "Clever and different ways of transportation via electric scooters and bicycles", Interview of A. Tsioutras to Sotiris Kiriakides, TV-Show 24 Hours, Skai - TV, 24-9-2007.
- "Virtual driving in the 72nd International Trade Fair of Thessaloniki", TV-Show "First Line" with Vasilis Lirintzis and Dimitris Oikonomou, NET-TV, 13-9-2007.
- "Virtual driving in the 72nd International Trade Fair of Thessaloniki", Interview of Prof. G. Giannopoulos, A. Tsioutras, News, ET-3 TV, 12-9-2007.
- "Virtual driving in the 72nd International Trade Fair of Thessaloniki", Interview of Prof. G. Giannopoulos, A. Tsioutras, TV-Show, Rendezvous at 9 with Melina Karapanagiotidou and Christos Nikolaides, ET-3 TV, 12-9-2007.
- "An alarm co-driver for sleepy drivers" Interview of Dr. Bekiaris, A. Tsioutras, Lavraki, Newspaper, 30-9-2007.
- "System that keeps awake the driver is reducing traffic accidents", Interview of Dr. Bekiaris to Milo Newspaper, 23-9-2007.
- "Effective assessment of driver vigilance by HIT" Interview of Dr. Bekiaris to Hot-Press, 22-9-2007.
- "An alarm codriver for sleepy drivers by HIT", Interview of Dr. E. Bekiaris, A. Tsioutras to Tasos Sarantis, Hmerisia Newspaper, Science Sector, 22-9-2007.
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- "Hellenic Institute of Transport: A mobile laboratory will collect information about the condition of motorways", Interview of Dr. E. Bekiaris, Dr. M. Morfoulaki, A. Tsioutras to Sofia Pakalidou, Aggelioforos Newspaper, 16-9-2007.
- "An intelligent system for monitoring drivers hypovigilance is developed by HIT in order to avoid traffic accidents", Interview of Dr. E. Bekiaris, A. Tsioutras, Akropolis Newspaper, 16-9-2007.
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- "A machine will identify driver's hypovigilance and will be ready by HIT in 2008", Interview of Dr. E. Bekiaris, Adesmeftos Typos Newspaper, 14-9-2007.
- "System for effective assessment of driver vigilance by HIT" Interview of Dr. E. Bekiaris, A. Tsioutras to Avriani Macedonia-Thrace Newspaper, 14-9-2007.
- "System for driver alertness", Interview of Dr. E. Bekiaris, Bradini Newspaper, 14-9-2007.
- "Hellenic Institute of Transport: An intelligent system for driver alertness", Interview of Dr. E. Bekiaris, A. Tsioutras, Citizens Newspaper, 14-9-2007.
- "An intelligent system is monitoring driver hypovigilance", Interview of Dr. E. Bekiaris, A. Tsioutras to Avriani of Athens Newspaper, 14-9-2007.
- "Road Safety and innovative actions by HIT – HIT at 72nd International Trade Fair of Thessaloniki" Professional Steering Wheel Magazine, p. 94-95, Issue 3, July-August 2007.
- "7th International Motor Show. The Ministry of Trasnport and Communications Pavilion hosted HIT's driving simulator", Auto Business Review Magazine, Photo 7, p. 53, Issue 8, July-September 2007.
- Broadcast of the TV spot against drinking and driving in 23 TV stations and a radio spot, in 60 radio stations, for the period August-September 2007.



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- "Drive fearless and safely in HIT's driving simulator", Interview of A. Tsioutras to Aris Portosalte and Sotiris Kirikides, TV-Show "24 Hours Skai", SKAI TV, 27-6-2007.
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- "The ensured development of Logistics Sector", Greetings of Prof. G. Giannopoulos for Supply Chain and Logistics 2007 Exhibition, Logistics & Management, 31-5-2007.
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- "Information and education via the help of HIT's driving simulator at 7th International Motorshow in Athens at the Pavilion of the Ministry of Transport and Communications. The distribution of over 10.000 Traffic Law books", Interview of A. Tsioutras Channel 9 TV, 17-5-2007.
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