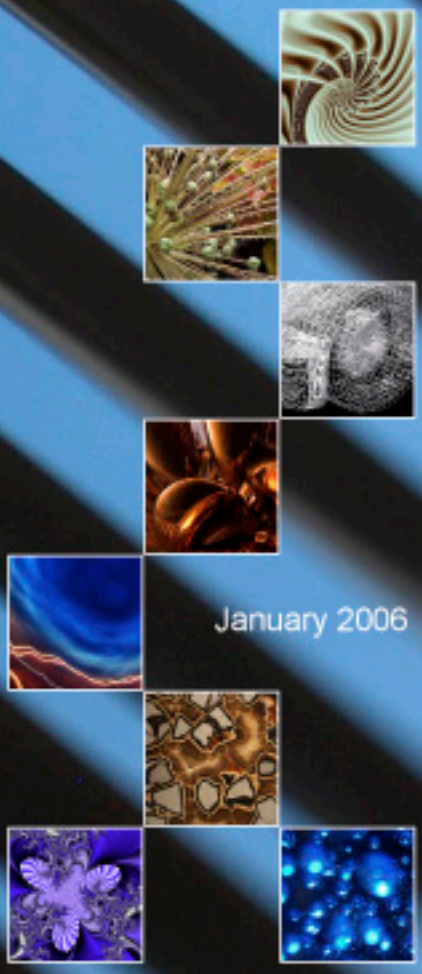
Hellenic Institute of Transport
annual report 2006

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

Hellenic Institute of Transport
H.I.T.



January 2006

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A NOTE FROM OUR DIRECTOR



The year 2006 was a very important year for the Hellenic Institute of Transport, from many aspects. Its research work kept increasing significantly both in terms of the number of research projects and the annual turnover, which was 25% higher than in 2005.

HIT's position in the Greek and European Transport Research has been long established and more and more Greek and foreign research institutions seek its collaboration. For Greece, HIT is by far the number one Research Institution based on its research projects (55 active projects in 2006) and its annual turnover which reached 5 million Euros in 2006.

In 2006 HIT's research infrastructure was also supplemented and today counts two (2) driving simulators, four (4) research vehicles, a virtual reality system and many elements of tangible and intangible infrastructure.

HIT's activities, however, are not limited to research project issues. In 2006 we developed a spectacular 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.

The International Congress on Transport Research in Greece, which is co-organized by HIT and HITE every two years, was also organized with great success in Thessaloniki.

I would like to thank all our research and administrative personnel and externals experts that contribute to the Institute's rapid development and its pan-European recognition as a center of excellence for transport research. I would also like to thank the central administration and the administrative personnel of CERTH (the National Center 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. Research in the field of transport in Greece is entering a new era of development and maturity that is being characterized by:

- The establishment of high quality research infrastructure at national level.
- The financial subsidy of research programs by national organizations - mainly General Secretariat for Research and Technology and ministries as the Ministry of Transport and the Ministry of Environment, Public Works and Planning.
- The structure improvement of Greek research organizations from the aspect of project realization and monitoring.
- The substantial participation of Greek research organizations in the field of Transport at European Level and mainly due to the establishment of the European Research Area by the E.U.

In 2006, 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 2006, HIT accomplished also to strength his research infrastructures as it began the development of his 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 with 20 new research programs which began in this year while 55 programs were in progress during 2006.

Year 2006 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 36 papers in scientific magazines and conferences, took part in scientific workshops and exhibitions while they successfully organized, in cooperation with the Hellenic Institute of Transportation Engineers, the 3rd International Congress on Transport Research in Greece.

The institute of Transport continued also in 2006 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) titled "Planning, Organisation and Management of Transport Systems". Simultaneously HIT has already begun collaboration with the National Centre of Public Administration and Local Government and more specific with the Institute of Training, for the organisation of educational seminars in subjects that are related to the transport and constitute research results of HIT. The first seminars are expected to be organised in the beginnings of 2007.



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.

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.

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



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

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:

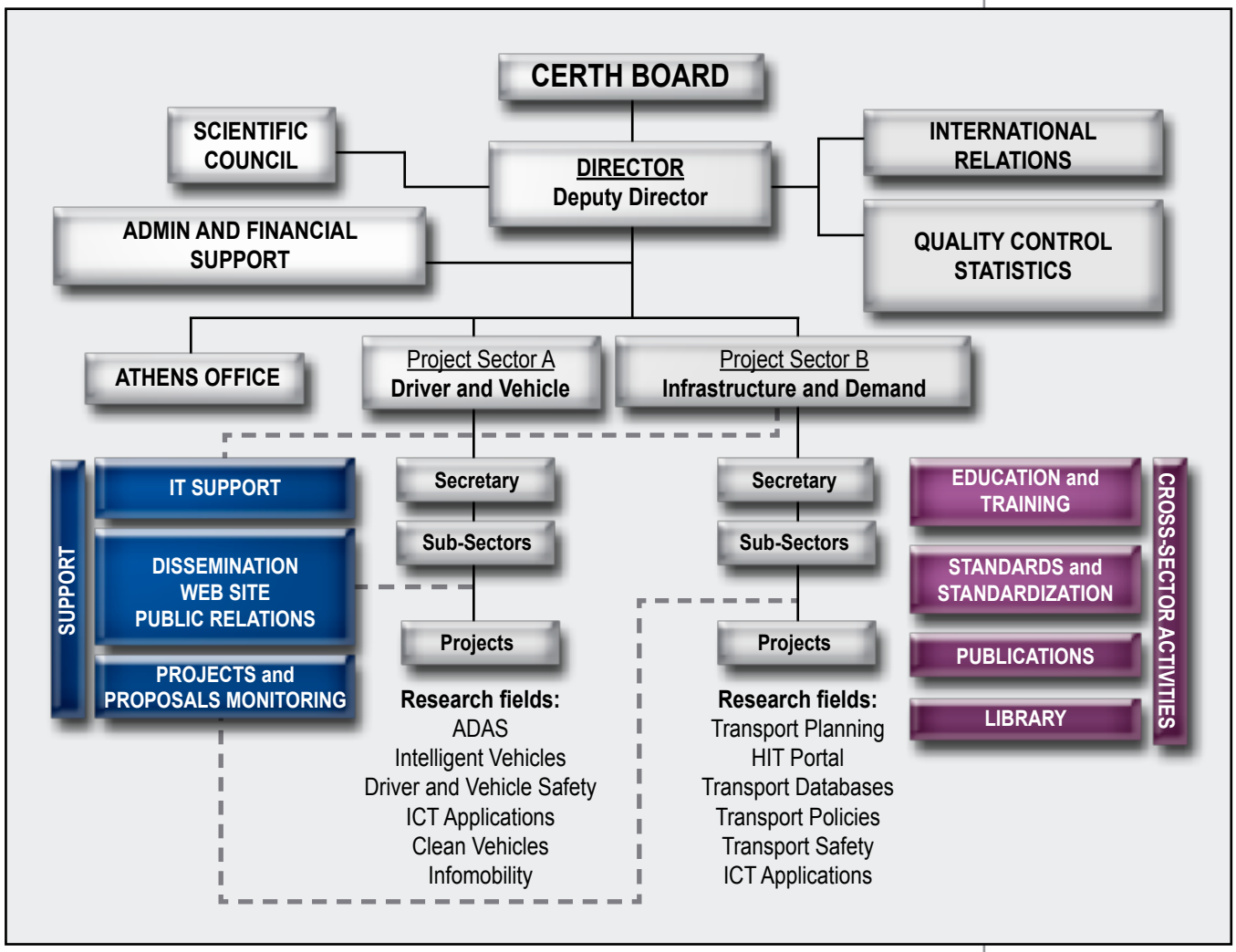


Figure 3: HIT organization chart

In 2006, the Scientific Council of HIT, consisted of: Prof. G. Giannopoulos (HIT Director), Prof. G. Kanelaidis (HIT Deputy Director), Dr. E. Bekiaris, Dr. G. Aifadopoulou and Dr. Y. Tyrinopoulos.

The main feature of the Organigramme of HI is its two (2) Operational Sectors:

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

Human Resources 2006

HIT employed in 2006 a total of 29 scientific and administrative personnel, and had short term contracts with a total of 36 external experts.

A. RESEARCHERS

- Prof. G. Giannopoulos, Civil Engineer - Transport Planner, Director.
- Ass. Prof. Ath. Ziliaskopoulos, Deputy Director.
- Dr. E. Bekiaris, Mechanical Engineer - H.I.T. Principal Researcher A´.
- Dr. G. Aifadopoulou, Civil Engineer - Transport Planner, H.I.T. Principal Researcher C´.
- Dr. Y. Tyrinopoulos, Transport Planner - Researcher D´.

B. SCIENTIFIC AND ADMINISTRATIVE PERSONNEL (in alphabetical order)

- B. - M. Vasilantonakis, Control & Computer Systems Engineer, MSc Computer Systems & Networks.
- P. Voudouris, Surveying Engineer, MSc GIS.
- E. Gagatsi, MSc Civil Engineer - Transport Planner.
- E. Gaitanidou, Civil Engineer, MSc Transport.
- P. Georgopoulos, MSc Mechanical Engineer.
- M. Gemou, Mechanical 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.
- F. Mikiki, MSc Civil Engineer - Transport Planner.
- Dr. M. Morfoulaki, Dipl. Civil Engineer - Transport Planner.
- T. Moshovou, Civil Engineer - Transport Research Associate (Postgraduate Scholar).
- A. Mousadakou, Mathematician.
- St. Nikolaou, Software Programmer.
- M. Panou, Electronics Engineer & 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.
- 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

- I. Koukouloudi, Executive Secretary.
- A. Kostouli, Administrative Secretary.
- A. Christodoulou, Administrative Secretary.
- K. Katsareli, Administrative Secretary.
- S. Adam, Administrative Secretary.

Premises

HIT is currently housed in the Thessaloniki Technology Park - 6th Km Charilaou - Thermi Road. The current housing is considered to be temporary and the necessary procedures (through the Centre for Research and Technology Hellas) for the construction of new buildings in an area of 20 acres that has been purchased next to the premises of the Technological Park, are under construction.

The new buildings will contain 1500 square meters of office space and 1000 square meters of underground laboratories.



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).

Center of Excellence 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 Organisations supervised by the Greek General Secretariat for Research and Development" a Centre of Excellence on driving behaviour issues was created within the Hellenic Institute of Transport. The Centre is equipped with a research vehicle able to record and analyse on-line driving behavioural 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.

Research Vehicle for Driving Behaviour

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.
- Eyelid sensor and software, providing information regarding eyelid movements, which are useful to estimate level of driver's hypovigilance.

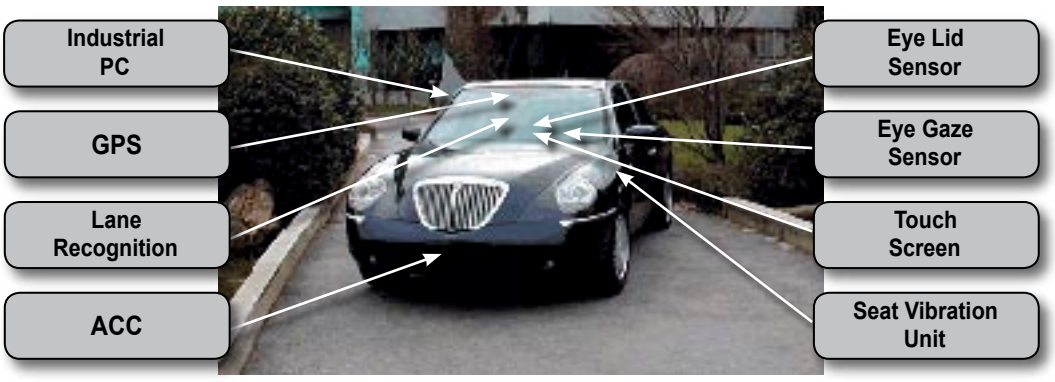


Figure 6: Overview of the research vehicle for driving behaviour.



- 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 ergonomy studies for such systems as well as studies on user acceptance. Furthermore, the driving behaviour can be analysed in detail and safety studies regarding vehicle and road interventions can be conducted.



The touch screen.



The central mirror.



The eyelid sensor.

Virtual Reality System

This is a single wall cave system and is used for the realization of structural, ergonomical and other safety and assessment analyses, which require the simulation of a series of various procedures, performed by the Hellenic Institute of Transport.

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.

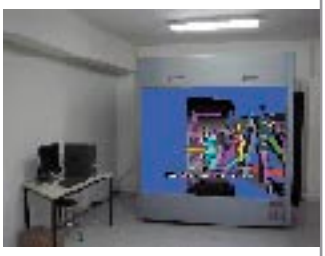
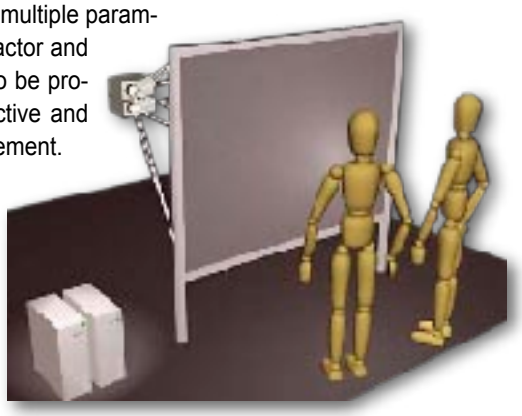


Figure 7: General overview of the HIT virtual reality system.

By means of the use of human models and their multiple parameterisations, 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.

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 specialised 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 behaviour 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 roadsurface 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 behaviour 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.



General overview of the driving simulator.



Driver's field of view.

Research Vehicles

The basic vehicle research equipment of HIT is a number of clean vehicles that were acquired in the framework of various research projects. They are used to survey the impacts from the introduction and of clean vehicles in the urban traffic. These vehicles are described below.

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 8: The electrically assisted bicycles.

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.



Figure 9: Electrical moped during charging.

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 behaviour. 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 10: HIT's hybrid vehicle.

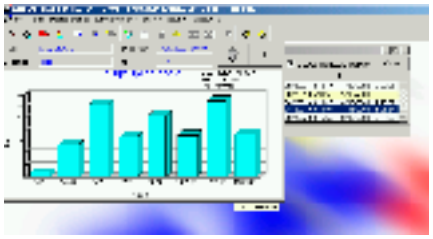


Figure 11: Analysis of driving data.



Figure 12: System recording driving and consumption data.

RESEARCH ACTIVITY

Research Projects

Table 1 shows in brief HIT's scientific activities in 2006. Its on-going projects for 2006 were 55, of which 20 started within 2006 while the rest 37 are projects were previously launched. At the same time 15 proposals were submitted in 2006, 7 of which were approved. Of the 55 active projects in 2006, 16 will expire within 2007.

TABLE 1: Brief presentation of HIT's projects 2006

BRIEF PRESENTATION OF HIT'S PROJECTS 2006	
ON-GOING PROJECTS 2006	55
PROJECTS WITH STARTING DATE IN 2006	20
PROJECTS WITH STARTING DATE IN 2002-2005	37
PROJECTS PROPOSALS 2006	15
APPROVED PROPOSALS 2006	7
PROJECTS EXPIRING IN 2007	16

Table 2 shows in summary the details of the active projects in 2006.

TABLE 2: Active projects 2006

ACTIVE PROJECTS 2006							
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 31/12/2007	COORDINATOR
2.	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
3.	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
4.	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

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
5.	AIDE	IST (IST-1-507674-IP)	Adaptive Integrated Driver-vehicle Interface	E. Bekiaris	546.810	1/3/2004 28/2/2008	PARTNER
6.	PREVENT	IST (FP6-507075)	Preventive and Active Safety Applications	E. Bekiaris	598.755	1/2/2004 31/1/2008	PARTNER
7.	INTUITION	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
8.	HUMANIST	IST (507420)	HUMAN centered design for Information Society Technologies	E. Bekiaris	180.645	1/3/2004 29/2/2008	PARTNER
9.	APROSYS	SUST DEV- TRANSPORT (FP6-PLT-506503)	Integrated Project on Advanced Protection Systems	E. Bekiaris	50.000	1/8/2004 31/1/2006	SUBCONTRACTOR
10.	UPTUN	G1RD-CT-2002-00766	Low-cost durable innovative Upgrading methods for fire safety in existing tunnels	P. Papaioannou	237.006	01/09/02 31/08/06	PARTNER
11.	INTELLECT	GSRT	INTELLECT	G. Giannopoulos	34.840	1/11/2003 30/4/2006	PARTNER
12.	OSE - INFRASTRUC-TURE	OSE	Management and Maintenance of the Integrated Infrastructure Quality System of OSE for the years 2003-2005	G. Giannopoulos	190.000	21/4/2003 30/04/2006	LEAD PARTNER
13.	OSE - SERVICES	OSE	Management and Maintenance of the Three Years Duration Integrated Control System of the Passenger Transport of OSE	G. Giannopoulos	199.000	04/2003 04/2006	LEAD PARTNER
14.	EUR2EX	6th FP NOE	European Rail Research network of Excellence	Ch. Pyrgidis	30.838	1/1/2004 31/12/2007	PARTNER
15.	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
16.	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

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
17.	IN-SAFETY	TREN-04-FP6TR-SO7.38213/506716	Infrastructure and Safety	E. Bekiaris	443.285	1/2/2005 31/1/2008	PARTNER
18.	MISS	TST3-CT-2004-516235	Monitor Integrated Safety System	Y. Tyrinopoulos	140.525	1/1/2005 31/12/2006	PARTNER
19.	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
20.	Municipality of Trikala	Municipality of Trikala	Technical consultant for intelligent transport system design, implementation management and monitoring	G. Aifadopoulou	51.941	14/7/2005 13/7/2006	SUBCONTRACTOR
21.		Hellenic Ministry of Transport & Communications	Institutional upgrade of the driving training in Greece	G. Giannopoulos	84.052	3/10/2005 31/3/2006	SUBCONTRACTOR
22.	REORIENT	Institute of Transport Economics (TOI)	Implementing Change in the European Railway System	G. Aifadopoulou	152.880	18/4/2005 17/4/2007	SUBCONTRACTOR
23.	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
24.	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
25.	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
26.	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
27.	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
28.		RCM	HIT's equipment upgrading	Y. Tyrinopoulos	200.000	1/7/2005 31/12/2006	LEAD PARTNER
29.	DANGEROUS AXIS	TREDIT	Dangerousness study of the National Road Network axis and sections hierarchy for the road safety level improvement studies	G. Giannopoulos	33.613,45	1/12/2005 31/3/2006	SUBCONTRACTOR

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
30.		SALONIKA PARK AE	Demand and economic evaluation study for two underground parking stations in Thessaloniki – Antheon Depot and Ippokratio Depot	G. Aifadopoulou	9.000	15/11/2005 28/2/2006	SUBCONTRACTOR
31.		Association of Drinks Companies	Promotion and vindication of road safety in Greece, in the context of informative and educational actions of CERTH/HIT	E. Bekiaris	24.000	21/11/2005 31/5/2006	SUBSIDY
32.	BOB Campaign 2006	DG TREN	"BOB"- Campaign in Greece	E. Bekiaris	139.248	1/9/2005 28/2/2007	PARTNER
33.	GOODROUTE	EU	Dangerous Goods Transportation Routing and Monitoring	E. Bekiaris	682.430	1/1/2006 31/12/2008	COORDINATOR
34.	HUMABIO	EU	Human Monitoring and Authentication using Biodynamic Indicators and Behavioural analysis	E. Bekiaris	327.640	1/1/2006 30/6/2008	COORDINATOR
35.	SAFESPOT	EU	Cooperative systems for road safety «Smart Vehicles on Smart Roads	G. Aifadopoulou	200.845	1/1/2006 31/12/2009	PARTNER
36.	ARISTEIA	GSRT	Support to HIT for infrastructure for Excellence in research	G. Giannopoulos	365.920	1/1/2006 31/12/2007	LEAD PARTNER
37.	SUPREME	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
38.	PEPPER	EU	POLICE ENFORCEMENT POLICY AND PROGRAMMES ON EUROPEAN ROADS	E. Bekiaris	357.347	1/3/2006 31/8/2008	PARTNER
39.	PROMIT	EU	Promote Innovative Intermodal Freight Transport	Y. Tyrinopoulos	245.824	1/3/2006 28/2/2009	PARTNER
40.	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
41.	RESCUE	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

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
42.	HAPPY TOURIST	EU, Leonardo Da Vinci Programme	Holistic application to effectively train tour-istic services staff in accessibility issues	E. Bekiaris	12.605	1/2/2006 31/10/2007	SUBCONTRACTOR
43.	TRACE	University of Patras	TRaffic Accident Causation In Europe	E. Bekiaris	56.000	1/4/2006 31/12/2007	SUBCONTRACTOR
44.	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
45.	CATER	EU	Computerized Automotive Technology Reconfiguration System for Reverse Engineering and Mass Customization	E. Bekiaris	517.069	1/9/2006 31/8/2009	PARTNER
46.	SECURMED	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
47.	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
48.	FREIGHTWISE	EU	Management framework for Intelligent Intermodal Transport	G. Giannopoulos	272.052	1/11/2006 30/4/2010	PARTNER
49.	LIMES	EU	Land/sea Integrated monitory for European security	G. Aifadopoulou	28.300	1/12/2006 31/5/2010	PARTNER
50.	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
51.	IM@GINE IT	6th FP IST	Intelligent Mobility Agents, Advanced Positioning and Mapping Technologies, INtEgrated Interoperable MulTimodal location based services	E. Bekiaris	274.670	1/1/2004 30/6/2006	COORDINATOR

NO.	ACRONYM	FINANCIAL INITIATIVE & PROGRAM	FULL TITLE OF PROJECT	RESPONSIBLE FOR HIT	HIT BUDGET (EURO)	DUR.	ROLE OF HIT
52.	Ministry for the Environment, Physical Planning & Public Works	EYDE/SERA.	Plan development of necessary regulatory and administrative rules to achieve the optimal transport of hazardous materials through tunnels in accordance to the current and future Commission Regulations.	G. Giannopoulos	100.000	1/3/2006 30/11/2006	SUBCONTRACTOR
53.	Ministry for the Environment, Physical Planning & Public Works	Directorate of Road Construction Works	Design of the national electronic road matrix	G. Aifadopoulou	125.000	13/3/2006 12/9/2006	SUBCONTRACTOR
54.	DRUID	EC FP 6	Driving under the Influence of Drugs, Alcohol and Medicine	E. Bekiaris	431.834	15/10/2006 14/10/2010	PARTNER
55.	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

Publications by HIT's Scientific Personnel (2006)

A. Books & Journals

1. **Giannopoulos, G.A., Tyrinopoulos Y.,** *"Intermodal Freight Transport between Europe and Asia: a structured approach to policy making and problem solving",* Transportation Research Record: Journal of the Transportation Research Board, No. 1966, pp. 16-26, November 2006.
2. **Giannopoulos, G.A.,** *"Transport Policy and Research Issues in Greece and the EU: Current facts, prospects, and priorities"*, chapter in book TRANSTEC, Elsevier, 2006.
3. **Tyrinopoulos, Y., Aifadopoulou, G.,** *"A Complete Quality Control Methodology for the Passenger Services in the Public Transport Business"*, ASCE magazine (pending approval).
4. **Tyrinopoulos, Y., Morfoulaki, M., Aifadopoulou, G.,** *"Estimation of Satisfied Customers in Public Transport Systems: A New Methodological Approach"*, Transportation Research Forum magazine (pending approval).
5. Canisius, S, Ploch, T, Hubner, E, **Bekiaris, E.,** Vogelmeier, C., Becker, HF, Penzel, T., *"Quantification of daytime sleepiness in young, healthy subjects during a reaction time test (VIGIMAR) and Karolinska Drowsiness Test (KDT)".* Sleep Medicine, Vol. 7, Supp. 2, S124-S125, 2006.
6. Canisius, S, Ploch, T, Hubner, E, **Bekiaris, E.,** Vogelmeier, C., Becker, HF, Penzel, T., *"Quantification of daytime sleepiness in young, healthy subjects during a reaction time test (VIGIMAR) and Karolinska Drowsiness Test (KDT)".* Somnologie Vol. 10, S1, page 8.
7. Karaseitanidis, I., Amditis, A., Patel, H., Sharlpes, S., **Bekiaris, E.,** Bullinger, A., Tromp, J., *"Evaluation of virtual reality products and applications from individual, organizational and societal persepectives – The "VIEW" case study"*, Int.J. Human-Computer Studies, Vol 64, 2006, p. 251-266.
8. **Panou, M., Bekiaris, E., Papakostopoulos, V.,** *"Modeling Driver Behaviour in EU and International Projects"*, In: Critical Issues in Advanced Automotive Systems and Human-Centred Design, P.C. Cacciabue and C. Re (eds.), Springer, UK, 2006.
9. Brookhuis, K., de Waard, D., Marchau, V., Wiethoff, M., Walta, L., **Bekiaris, E.,** *"Self-explaining and forgiving roads to improve traffic safety"*, In Developments in Human Factors in Transportation, Design and Evaluation, de. Waard, D., Brookhuis, K., Toffetti, A. (eds.), p. 1-11, Maastricht, the Netherlands, 2006, Shaker Publishing.

B. Publications in Conferences

1. **Giannopoulos, G.A.,** *"The future of Transport research in Greece"*, keynote speech 3rd International Congress on Transportation Research in Greece, Thessaloniki, 19-20 May 2006.
2. **Giannopoulos, G., Aifadopoulou, G., Charalampous G.,** *"Development of Intermodal Freight Terminals: A methodology for building optimal networks of terminals and its application in South Eastern Europe"*, paper presented in the 85th TRB Annual Meeting, Washington D.C. 22-26 January 2006.
3. Penzel, T., Becker, H., Canisius, S., **Bekiaris, E.,** *"New Sensors and Algorithms for the Detection of Sleepiness and Sleep Disorders"*, World Congress on Biomedical Engineering 2006, Seoul, South Korea.
4. Lal, S., **Bekiaris, E.,** *"The Reliability of Sensing Fatigue from Neurophysiology"*, AusWireless'06 Conference, 13-16 March, Sydney, Australia, 2006.
5. **Aifadopoulou, G.,** *"Efficient and sustainable transport systems and access to the information society; IMONODE - Efficient Integration of Cargo Transport Modes & Nodes in CADSES area"*, Interreg III B CADSES project conference: Setting regions in motion, Alexandroupolis, 20-21 March 2006.
6. **Aifadopoulou, G.,** *"La recherche en socio-économie des transports en Grèce"*, Sixièmes rencontres francophones Est-Ouest de socio-économie des transport (NTUA), Athènes, 4-5 May 2006.
7. **Aifadopoulou, G.,** *"The role of the Western Railway Corridor in the integration of the TEN-T and the current status of the railway connections in S.E. Europe"*, Conference: West Railway Axis - The great TransEuropean Networks project, Patra, 13 May 2006.
8. **Giannopoulos, G.A., Aifadopoulou, G., Morfoulaki, M., Margaritis, D.,** *"Training and certification of truck drivers in Greece: An Integrated approach for the formulation of training material and procedures"*, 3rd International Congress on Transportation Research in Greece, Thessaloniki, 19-20 May 2006.

9. **Aifadopoulou, G., Morfoulaki, M.,** *"Development of a PORTAL for transport data management and processing in HIT – The implementation of a concept"*, 3rd International Congress on Transportation Research in Greece, Thessaloniki, 19-20 May 2006.
10. **Aifadopoulou, G., Chrisochoou,** E., Mizaras, V., Pachinis, Th., *"Data modeling and algorithmic solution for multimodal trip planning over Greek transport network"*, 3rd International Congress on Transportation Research in Greece, Thessaloniki, 19-20 May 2006.
11. **Aifadopoulou, G., Tyrinopoulos, Y.,** Papayannakis, A., Toskas, I., *"An integrated Quality Control System for the Public Transport Services in Thessaloniki"*, 3rd International Congress on Transportation Research in Greece, Thessaloniki, 19-20 May 2006.
12. **Tyrinopoulos, Y., Gagatsi, E.,** *"Competitiveness of the Greek ports: Critical parameters, weaknesses and development opportunities"*, 3rd International Conference on Transport Research in Greece, Thessaloniki, May 19-20, 2006.
13. **Tyrinopoulos, Y., Mikiki, F.,** *"The Integration of Transport Indicators into Transport Policy Development: the current situation and prospects"*, 3rd International Conference on Transport Research in Greece, Thessaloniki, May 19-20, 2006.
14. **Nikolaou, S., Bekiaris, E.,** *"Drivers' Training: How to familiarize different target groups on the use of new intelligent in-vehicle systems"*, Proc. of the 3rd International Congress on Transportation Research in Greece, 19-20 May 2006, Thessaloniki, Greece, p. 540-547.
15. **Giannopoulos, G.A.,** *"Road Transport Contributing to a sustainable society: Vision of the future"*, keynote speech, Transport Research Arena – TRA Conference, 12-15 June, 2006, Gothenburg, Sweden.
16. **Mitsakis, E., Ziliaskopoulos, A.,** *"Risk assessment methods for integrated safety monitoring systems"*, Transport Research Arena 2006, CEDR-European Commision-ERTRAC, Gothenburg - Sweden, 12-15 June 2006.
17. **Aifadopoulou, G., Chrisochoou, E., Ziliaskopoulos, T.,** *"Time depended multi-objective optimum path algorithm in multimodal transportation networks"*, 18th National Conference on Operational Research, Kozani, 15–17 June 2006.
18. Penzel, T., Becker, HF., Canisius, S., **Bekiaris, E.,** *"Analysis of EEG, Heart Rate Variability and other autonomous signals to detect sleepiness"*, European Sleep research Society 2006 meeting.
19. Kondili, E., **Bekiaris, E.,** Papapostolou, Ch., Kaldellis, J.K., *"Biofuels for transportation in Europe: current status and prospects"*, IX World Reneable Energy Congress and Exhibition, Florence, Italy, 19-25 August 2006.
20. Papadelis, Ch., Papadeli-Kourtidou, Bamidis, P., Chouvarda, I., Koufogiannis, D., **Bekiaris, E.,** Maglaveras, N., *"Indicators of sleepiness in an ambulatory EEG study of night driving"*, Proc. of the 28th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, New York, 30 August - 3 September 2006.
21. **Aifadopoulou, G., Charalampous, G.,** *"Development of Intermodal Transport in SE Europe: Proposed Network of Intermodal Transport terminals and Corridors"*, paper presented in the 46th Congress of the European Regional Science Association (ERSA), Volos, 1st September 2006.
22. **Aifadopoulou, G., Chrisochoou, E., Ziliaskopoulos, T.,** *"A multi-objective optimum path algorithm for passenger pre-trip planning in multimodal transportation networks"*, Transportation Research Board, 86th Annual Conference & Journal of The Transportation Research Board.
23. **Bekiaris, E., Panou, M., Papakostopoulos, V., Tsioutras, A.,** *"Results of the assessment of elderly drivers in a driving simulator as part of an assessment protocol"*, Driving Simulation Conference (DSC) Europe, 4-6 October 2006, Paris, France.
24. Tzovaras, D., **Bekiaris, E., Gemou, M.,** *"Dangerous Goods Transportation Routing, Monitoring and Enforcement"*, 13th World Congress on ITS, 8-12 October 2006, London.
25. **Bekiaris, E., Panou, M., Papakostopoulos, V.,** *"Assessment results of an innovative driver assessment system and tools for elderly drivers"*, 13th World Congress on ITS, 8-12 October 2006, London.



26. **Panou, M., Bekiaris, E.,** *"Towards the development of an adaptation strategy for safe and integrated infomobility services use by mobility impaired drivers"*, 13th World Congress on ITS, 8-12 October 2006, London.
27. **Nikolaou, S., Bekiaris, E.,** *"Prioritisation of applications for hypovigilance detection and prediction: Towards a multisensorial platform for driver hypovigilance monitoring"*, 13th World Congress on ITS, 8-12 October 2006, London.
28. **Portouli, E., Gemou, M., Papakostopoulos, V., Bekiaris, E.** *"HMI pilots for lateral safe applications"*. 13th World Congress on ITS, London UK, October, 8-12, 2006.
29. Lu, M., Wevers, K., **Bekiaris, E.,** *"A bi-level approach for modelling and evaluating road traffic safety measures"*, 13th World Congress on ITS, 8-12 October 2006, London.
30. Benz, T., **Gaitanidou, E.,** Spyropoulou, I., Yannis, G., Tapani, A., *"Modelling Road Traffic Safety – The IN-SAFETY approach"*, ITS World Congress, 8-12 October 2006, London, UK.
31. Lu, M., Wevers, K., and **Bekiaris, E.,** *"Physical road infrastructure measures for traffic safety"*, 19th ICTCT (International Co-operation on Theories and Concepts in Traffic Safety) Workshop, Minsk, 26-27 October, 2006.
32. **Gaitanidou E., Bekiaris E.,** *"Providing personalised transportation content information to people with mobility impairments"*, ASK-IT 1st International Conference, 26-27 October 2006, Nice, France.
33. Maglavera, S., Maglaveras, N., Lekka, I., **Bekiaris, E.,** Penzel, T., Canisius, S., Jacob, N., Leondaridis, L., *"SENSATION remote monitoring system that enables monitoring of patients with selected sleep disorders"*, Proc. of the International Special Topic Conference on Information Technology in Biomedicine (ITAB) 2006, Ioannina, Greece, 26-28 October 2006.
34. Visintainer, F., **Panou, M.,** Pagle, K., *"ADAS & IVICS for all"*, ASK-IT International Conference, in CD proceedings, Nice, October 2006, France.
35. **Panou, M., Bekiaris, E.,** Wiethoff, M., *"Ambient Services framework application in eight sites"*, ASK-IT International Conference, in CD proceedings, Nice, October 2006, France.
36. Tzovaras, D., **Gemou, M.,** *"Cooperative system for the dangerous goods vehicles safest route"*, Gefährliche Ladung – Das Gefahrgutmagazin, November 2006.

C. Presentations in Conferences

1. **Tyrinopoulos, Y.,** *"Safety and environmental policy issues in Maritime Transport in Asia"*, Ho Chi Minh, Vietnam, 24 March 2006.
2. **Morfoulaki, M.,** *"Work zones safety: Requirements and needs"*, Road safety – Design particularities & optimization perspectives in Western Greece, Lamia, October 2006.
3. **Aifadopoulou, G., Charalampous, G.,** *"Feasibility study for the construction of railway and port terminal infrastructure in Western Greece and the creation of an EU intermodal 'gate' in S.E. Europe"*, Kalambaka, 6 October 2006.
4. **Tyrinopoulos, Y.,** *"Safety and Environmental Protection of Maritime Transport in Europe and Southeast Asia: current status, best practices, and know-how transfer issues"*, Valencia, Spain, 19 October 2006.
5. **Aifadopoulou, G., Charalampous, G.,** *"Feasibility study for the construction of railway and port terminal infrastructure in Western Greece and the creation of an EU intermodal 'gate' in S.E. Europe"*, Ioannina, 3 November 2006.
6. **Charalampous, G.,** *"Development of Efficient Network of Modern Intermodal terminals in South East Europe"*, 16th Economic Forum: Krynica, 6-8th, September 2006
7. **Aifadopoulou, G.,** *"Traffic studies for urban areas and cities», Educational Programme «Traffic interventions in urban areas"*, (National Center for Public Adminsitration & Local Government), Thessaloniki, 28 - 30/6/2006.

EDUCATIONAL ACTIVITY

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

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**





FINANCIAL RESULTS

The basic economic data of HIT's activity for 2006 are shown in Table 3 and schematically presented in Figure 13.

TABLE 1: Financial results 2006 (Euros)

FINANCIAL RESULTS 2006	
INCOME RESOURCES	**2006**
On going projects (no of projects)	55
Total Budget of EU funded research projects	1.550.115,12
Total Budget of GSRT funded research projects	2.511.301,33
Total Budget of National funded research projects	73.163,07
Income from Services	461.989,56
Total annual turnover	4.626.736,24

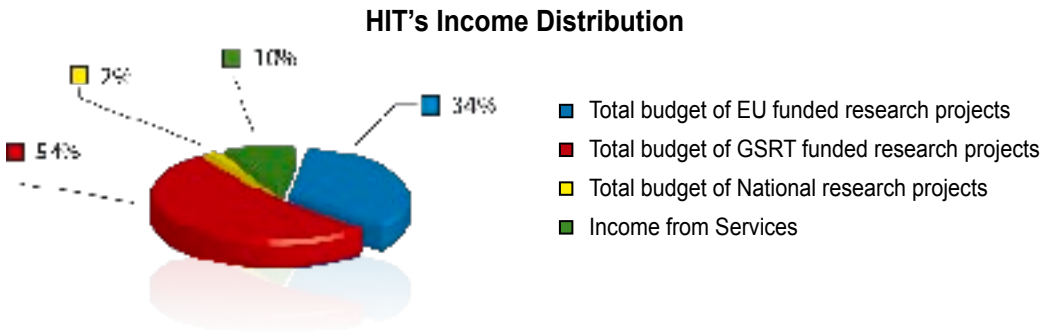


Figure 13: HIT's income distribution by source

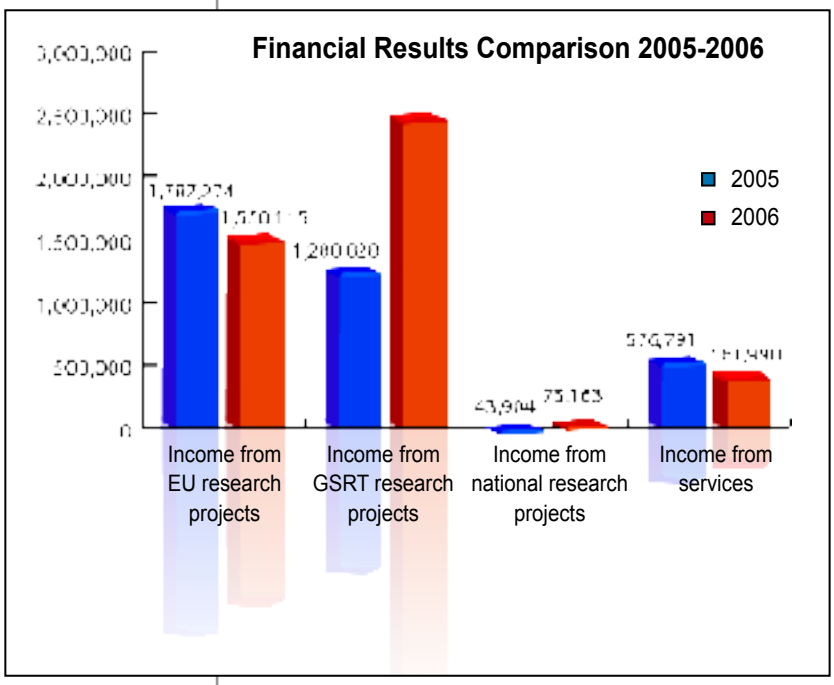


Table 1 shows that the main income resource of HIT for 2006 was the National funded research projects (54%), while the EU funded research projects constituted the 34%of the total budget. As far as income from Services and National funded research projects are concerned, these are 10% and 2% correspondingly.

It's worth mentioning that the governmental support in HIT's income is still low (29%) which sets off the increased contribution of the other income resources. It is obvious that during 2006 HIT shows an increase in its income resources deriving from its research activity.

This fact is also substantiated, when compared to 2005 Annual Turnover of 3.696.797 Euros, an increase of 25% in 2006.

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 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 National Reference Point of the European Environment Agency from 2001. More concretely, HIT contributes in the process of data annotation that is used for the production of European environmental indicators, which value the interaction between transport 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 above-mentioned activities of HIT for the year 2006 are presented below in more detail:







Organization of Conferences – Meetings

3rd International Congress on Transportation Research in Greece,

Thessaloniki, 19-20 May 2006

HIT successfully organized, in cooperation with the Hellenic Institute of Transportation Engineers (SES), the **3rd International Congress on Transport Research in Greece**, which takes place every two years.

The 3rd International Congress took place in the Convention Center I. Vellidis, in Thessaloniki on May 19-20, 2006 and under the aegis of the Hellenic Ministry of Transport and Telecommunications.

The venue was sponsored by the joint venture «Helexpo» - «Technoekdotiki», in the context of the 2nd Transport & Logistics, which took place on May 19-22 2006 in the HELEXPO exhibitions center in Thessaloniki. The Congress was supported by a great number of sponsors.

The main subject of the Congress was the contribution of research to the formulation of effective and applicable measures while its basic goals were to present resent research projects in the field of Transport in Greece, the investigation of modern developments and exchange of views in regard to transport research issues on national and international level.

The Congress program was divided in 12 Sessions covering vital issues of the transport domain such as: Transport policy & management, Traffic modeling, Hazardous materials transportation & emergency response, Data collection & management, Public transportation quality evaluation & pricing and control systems, Intermodal freight transportation, Traffic safety, Innovative design of rail & airport infrastructure, Maritime transport & port operations, Human behavior in transportation, Innovative technologies in traffic operations & management, Transport economics.

In the context of the Congress, 3 technical visits were planned to the Container Terminal of the Port of Thessaloniki, the Public Transport Organization of Thessaloniki and the Driving Simulator in HIT.

Cooperation with Scientific Magazines

The Hellenic Institute of Transport, has a permanent column in several scientific or professional magazines in the field of Transport in Greece.

During 2006 the following articles were published in such magazines:

- "Training and certification of truck / bus drivers in Greece", 24/6/2006.
- "The urban freight distribution planning. An existing problem which is going to find its solution", 27/9/2006.
- "Computer science evolution upgrades the logistics services market", 9/11/2006.
- "Need for systematic support and monitorship of the dangerous goods transportation and activation of emergency services", 19/12/2006.
- "Competitiveness of the Greek Ports", Transport & Logistics, official issue for the 2nd Transport & Logistics Exhibition, no. 46, Friday 19 May 2006.

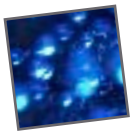
Participation in exhibitions

Already HITs driving simulator has been visited by more than 30.000 people at:

- 2nd Week for Research and Technology, Athens (July 2006, Zappeion).
- 71st International Trade Fair of Thessaloniki (September 2006).
- Police Exhibition for Road Safety at the City of Kavala (September 2006).
- Police Exhibition for Road Safety at the City of Ierapetra (October 2006, Crete).
- Police Exhibition for Road Safety at the City of Katerini (October 2006).
- Police Exhibition for Road Safety at the City of Drama (November 2006).
- Police Exhibition for Road Safety at the City of Kilkis (November 2006).
- Police Exhibition for Road Safety at the City of Thessaloniki (November 2006).
- Police Exhibition for Road Safety at the City of Xanthi (December 2006).
- Police Exhibition for Road Safety at the City of Alexandroupoli (December 2006).

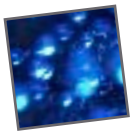
CERTH/HIT at Greek Mass Media (2006)

- "Greeks agree with parking areas, but they are not willing to pay for them", Conclusions of HIT's research to Donia Kanitsaki, Aggelioforos Newspaper, 31-12-2006.
- "The problem of road... un-safety in Greece and the innovative actions of HIT for the reduction of this phenomenon. Driving simulators", live appearance of A. Tsioutras, Evening News with Akis Tatsis, Delta TV, 14-12-2006.
- "A different way of driving via driving simulators", Interview of A. Tsioutras, Afternoon TV show, Delta TV, 13-12-2006.
- "The Chief of Alexandroupoli's church is driving HIT's driving simulator", Evening News with Akis Tatsis, Delta TV, 12-12-2006.
- "The opening ceremony of Alexandroupoli's Traffic Police Exhibition, HIT's driving simulator, Mayor's opinions about it, the imminent entrance of HIT's books for student's traffic education", Interview of A. Tsioutras, Evening News with Akis Tatsis, Delta TV, 11-12-2006.
- "Xanthi's Traffic Police Exhibition: HIT's driving simulator under the influence of alcohol helps the improvement of road safety", Interview of A. Tsioutras, News, TV channel, ET-3, 5-12-2006.
- Thessaloniki's Traffic Police Exhibition and HIT's driving simulator, News, TV-Macedonia, 25-11-2006.
- "Every year Greece loses a city of 2000 inhabitants due to road accidents. HIT's simulator in the Traffic Police Exhibition in the city of Kilkis.", Article of Despina Moschouta, Newspaper Macedonia, 22-11-2006.
- Mr. Thomaidis (Head of Kilkis Traffic Police) is briefing for the Kilkis Traffic Police Exhibition in front of HIT's driving simulator, News ET-3, 20-11-2006.
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