



TTS Italia Handbook 2008



November 2008



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*Ministero dell'Ambiente
e della Tutela del Territorio e del Mare*





Contents

■ Who we are	5
■ ITS in Italy	6
■ TTS Italia activities 2007-2008	15
■ TTS Italia Directive Board	26
■ Management & Staff	27
■ TTS Italia Membership 2008 Directory	29
■ Founding Members	31
■ Ordinary Members	41
■ Local Authorities	83
■ Universities	87

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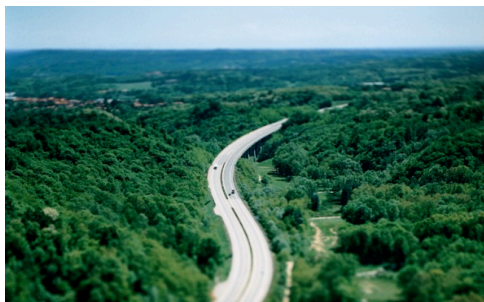
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Who we are



TTS Italia is the Italian ITS Association. It was founded in March 1999 by a group of both public and private organisations active in the sector of Intelligent Transport Systems (**ITS**).

Our mission is to foster the deployment and diffusion of **ITS** in Italy in the most effective manner for users, as we believe that **ITS** Systems represent an essential tools for improving the efficiency and safety of Italian transport systems, and for protecting the environment.

Our main priorities are to provide our Associates with adequate instruments and information to develop **ITS** applications as “user-oriented” as possible, and to support institutional bodies in the actions of implementation, promotion and diffusion of Intelligent Systems and Services for Transport and Safety.

Our challenge is to make **ITS** a real opportunity for Italy. For this, we work to clear and precise objectives:

- To facilitate the deployment of **ITS** systems and services in Italy and their market penetration
- To increase awareness and spread information about **ITS** in Italy
- To support National and Local Institutions to define regulations and strategies for the **ITS** sector
- To stimulate discussion of themes of strategic interest with the aim of working towards the adoption of a common architecture
- To provide valuable services to our Associates in order to enhance their knowledge on up-to-date business opportunities on **ITS**
- To sustain collaboration and consensus formation for technical, organisational and institutional solutions

TTS Italia, therefore, proposes itself as a privileged forum at National level for the comparison of positions, interests and needs of the various actors which contribute to the development and implementation of **ITS**.



ITS in Italy

Italy is one of the European Countries characterised by the highest traffic levels with 975.992 million passengers /Km per year. 92,23% of them chooses road transport. Goods transport to more than 50 Km distance amounts to 243.390 million tons per year and 64,85% is conveyed by road [Source: Conto Nazionale delle Infrastrutture e dei Trasporti, data updating 2007].

Forecasts show that transport demand will increase in the next years and the risk is that transport costs will become unsustainable.

The National Plan for Transport and Logistics - PGTL, officially issued in 2001, by the Italian Ministry of Infrastructure and Transport, has singled out a series of strategic measures to fit the National Transport System to the new trends in travel and transport, in a time horizon up to 2010.



The aim is ensuring to citizens and goods the possibility to travel safely, efficiently and compliantly with environment by using all transport modes. All this cannot be reached simply by building new infrastructures, but by considering transport as an “integrated system”, where information, management and control work in synergy, so optimising the use of infrastructure and logistic platforms.

ITS play a leading role in such a strategic approach. They are the key tool to integrate mobility systems and services and to develop new solutions for a better efficiency, productivity and especially safety of transport system.

Trials performed until now in Italy show that **ITS** are a priority for our economy and competitiveness. They make our cities more liveable and they help us to protect our artistic heritage from pollution.



ARTIST – Italian ITS Architecture

Promoting the development and the diffusion of **ITS** on a National level, requires the definition of a strategic Framework Architecture providing the guidelines to make the different **ITS** applications integrated and interoperable. For this reason, in 2001, the former Italian Ministry of Infrastructure and Transport promoted the **ARTIST** (**AR**chitettura **Te**lematica **I**taliana per il **S**istema dei **T**rasporti) Project aimed at defining the National ITS Architecture.

The first Version of the **ARTIST** Architecture was published in January 2003.

ARTIST main objective is to provide public authorities, standardisation bodies, transport operators, infrastructure managers and private companies with general guidelines for steering **ITS** projects towards interoperable solutions compliant with National and European policies.

On the basis of the stated User Needs, **ARTIST** defines:

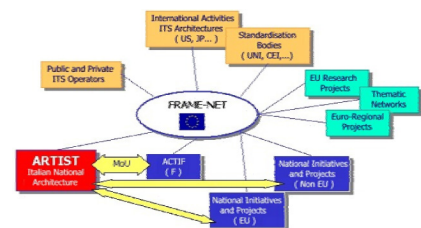
- the necessary services for users
- the functional, logical and physical relationships among systems
- information flows
- The organisational links among the different users (Public and Private Institutions) involved in the development and management of ITS

ARTIST allows to identify the stakeholders and the strategies to be adopted in the whole process of collection, processing and data management, which are fundamental for **ITS**.

ARTIST is an open Architecture, as the systems and services derived from **ARTIST** can easily integrate new functions and /or update the existing ones, bringing benefits in terms of cost reduction and efficiency improvement. The interoperability of components stimulates investments and creates the conditions for an open and competitive market, offering lower cost solutions.

ARTIST is compliant with the European Framework Architecture through the thematic Network FRAME-NET and it is strictly related to the French National Architecture ACTIF.

ARTIST is the Answer to the need for a common **ITS** language in Italy.



Links with Europe: The Euro-regional Projects

The European Commission, Directorate General Energy and Transport (DG TREN) has devoted its attention to **deployment of ITS** along the Trans-European Road Network. Specific programs have been defined for supporting and co-funding **ITS** implementations. In the 2000-2006 programme, where Euro-regions (groups of bordering countries) have been defined, Italy was involved in three Euro-regional projects SERTI (north-west), CORVETTE (north) and CONNECT (north-east). The Italian Ministry of Infrastructure and Transport coordinated the Italian participation in these projects and it has also been CORVETTE International Leader. In these projects the major Italian motorway and road operators were involved.

In the new 2007-2013 programme, the seven existing Euro-regional projects have been merged in one truly pan-European project, EASYWAY, where 21 Member States are participating. It is the first **Europe-wide ITS project** for harmonised **ITS** deployment. The structure of the previous projects has been kept for optimising the efficiency of the deployment. Italy has added a new area, the ITHACA area, involving southern motorways in connection with southeast Europe. The Italian Ministry coordinates all four participations.

The purpose of the Italian involvement is to improve the quality of the services and to guarantee the interoperability of such services across national borders, with the aim of reducing the number of accidents and improving safety.

ITS for urban traffic management



Italian Cities are historical cities. The problems connected to the increasing demand for mobility, peculiar to each urban area, are then made even graver by the structure of our cities which are not fit to vehicle traffic. The consequence is a negative quality of life, in terms of comfort, safety, pollution and time loss in congestions.

ITS can contribute to reduce significantly these negative effects and it is for this reason that the majority of the Italian Local Administrations has chosen to invest in the development of **ITS** applications. All this for the benefit of the citizen and the artistic estates.

ITS for urban mobility management are in place in the major Italian cities, as Rome, Turin, Naples, Genoa, Florence, Bologna,....., with significant benefits obtained in several cases. In Rome in 1999, the Administration of the City promoted the realisation of an Integrated **ITS** System for traffic monitoring and control which core is the Mobility Control Centre, installed at ATAC (the Agency for the Mobility Services of the City of Rome) headquarters.

The 5T system in Turin is one of the most advanced mobility management system in Europe. The system is able to control all the mobility issues in the Turin area and has been measured to increase Public Transport commercial speed (+ 17%) and to reduce Turin citizen travel time (-21%) improving traffic fluidity and providing real time information.



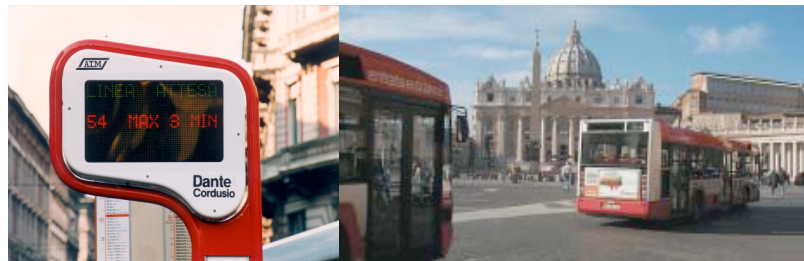
ITS for Public Transport Management

In Italy, Local Public Transport is a key priority for Local Administrations. Making Public Transport more accessible and attracting for users is the first, fundamental step to realise the objectives of a sustainable mobility.



ITS implemented at local level in order to improve service offering, show that **ITS** play an essential role to attain a sustainable mobility. **ITS** brings benefits not only to the citizen, but also to market and innovation.

Relevant best practices have been realised in many Italian cities as Rome, Milan, Turin, Naples, Perugia, Brescia, Florence, Livorno, ..., regarding advanced AVL/AVM systems and innovative ticketing, with the aim of making public transport more attractive and comfortable for users.



ITS for Motorway Traffic Management

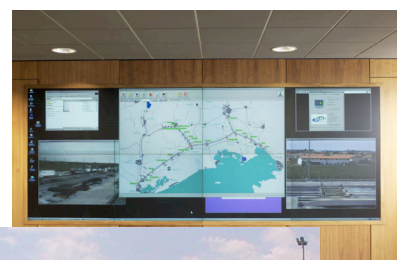
Italy has a long tradition concerning **ITS** for Motorway Traffic Management. Motorway operators are actively involved in many research and implementation projects at National and European level. The objective is that of guaranteeing the full interoperability of applications.

Advanced systems for detecting data flows are installed along the whole motorway network. They include: video-cameras, inductive loops and ultrasounds and microwave based systems.

Detected data are transmitted to motorway operators Traffic Control Centres, together with data coming from weather monitoring systems. 240 monitoring stations are totally installed. The control Centres process information and send it to travellers through VMS, FM, internet, mobile phones,

Traffic Control Centres are connected among them and with the CCISS, the National Information and Road Safety Coordination Centre, through the protocol Datex.

This ensures information availability in each stretch of the network.





One of the key aspects of the Italian motorway network is the diffusion of toll payment systems, which is the key element for traffic fluency. In particular the Telepass, operated by Autostrade in Italy since 1990, has been a great success: today, the distributed OBU are more than 5 millions and this result is due to promotional and development activities parallel to the constant upgrade of technologies. The Telepass system dramatically reduces the waiting times of vehicles and consequently motor emissions, for reduced environmental impact.

ITS for User Information



encouraging the transport modes from car.

In Italy, the management of traffic information at National level is coordinated and managed by the CCISS ("Centro Coordinamento Informazioni Sicurezza Stradale"), which was instituted in 1990, by the former Italian Public Works Ministry.

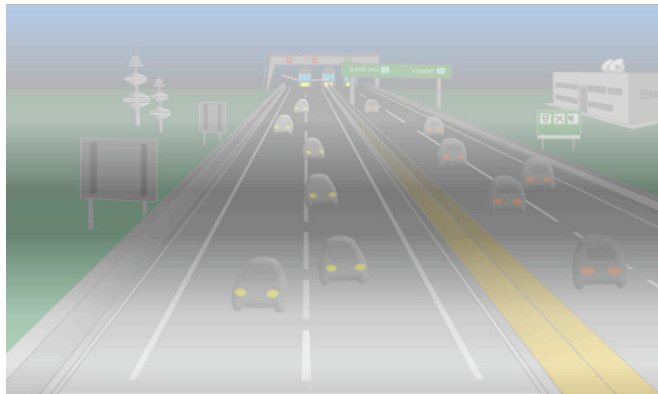
Currently, all mobility managers, both urban and non-urban, diffuse traffic and transport information through internet, VMS, telephone, teletext, radio and also through mobile phones. The objective is that of supporting the user in his travel choices before and during the trip, so improving transport comfort and efficiency.

These systems are also an essential tool to promote multimodal choices, by use of different



ITS for Road Safety

Road Safety in Italy is key priority. In 2005, road accidents have caused more than 5.426 deaths and 400.000 injuries. The new Road Code, issued in 2003, has introduced a series of measures, like marks on the driving licence, aiming at reducing the above mentioned numbers. The target is the respect of the objectives of the European Commission on road safety until 2010, indicated in the White Paper on European Transport Policy.



The National Plan for Road Safety states that **ITS** plays a key role for the improvement of road safety, with particular reference to emergency calls and hazardous goods transport.

From many years Italian Companies and Universities have been particularly active in **ITS** research and development projects, concerning innovative components and integrated systems installed on-board vehicle for enhancing the safety level of both driver and vehicle.

One of the most critical points of the Italian transport network as regards safety are the tunnels, especially in case of incidents causing fires. The incident occurred in the Monte Bianco tunnel in 1999 stimulated several research and development projects, aiming at optimising safety conditions in tunnels, through traffic management, diagnostic for incident prevention and the improvement of light and ventilation conditions in tunnels.



An outstanding initiative implemented in Italy in last years on motorway is the "Safety Tutor". Such a system has been developed by Autostrade per l'Italia and is certificated by the Italian Ministry of Infrastructures and Transport. The aim of the "Safety Tutor" is to increase significantly road safety through the systematic, direct and reliable control of the speed limits along a whole stretch of a road infrastructure, verifying that such average speed is kept within the applicable limit. Differently from the traditional systems, which are effective for instant speed detection only, "Safety Tutor" allows the monitoring of the violations in two different modalities: average speed along a road stretch and instant speed in a given road section, and makes accurate traffic statistics available. In 2006-2007, thanks to the widespread use of "Safety Tutor" on the Italian motorway network, the number of deaths was reduced by 50%.

ITS for Logistics and Freight Transport Management

In Italy, goods are mainly transported by road. The challenges that Italy has to face in the freight transport sector is twofold. From one side, there is the operators need to increase the efficiency and productivity of the whole logistics field, from the other, there is the need to encourage the modal balance. In addition, it is necessary to accompany the liberalisation and decentralisation of systems and services, by maintaining a unitary and integrated management of the trip among all the various involved actors.



Italy has been the first European Country to think and realise intermodal platforms as an infrastructure network dedicated to intermodal transport and the Italian logistic platform represents at European level an original way to rationalise the use of different transport modes.

ITS can play a key role to promote systems integration, bringing benefits to the competitiveness of the economic system as a whole. By intervening in the management of the various transport steps, it is possible to optimise all

the logistic process, from the starting point to that of goods delivery, through the use of different transport modes, so reducing costs.

Italy is then at the forefront as regards the development and the deployment of innovative **ITS** solutions for fleet management both for long haulage and urban freight transport, with the aim of enhancing intermodal freight transport, that are now extensively diffused, bringing benefits in terms of overall quality of the transport services and cost savings.



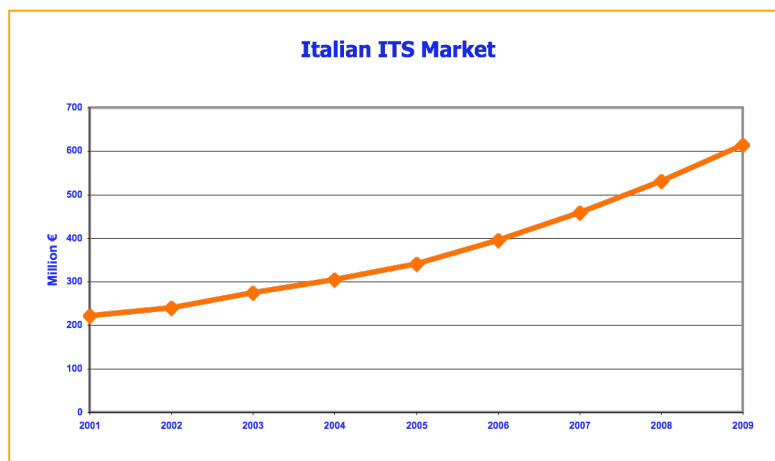
The Italian ITS market

A survey carried out in 2005 by **TTS Italia** revealed that the **ITS** sector in Italy recorded a total turnover of about 250 million euro in the 2003 and predicted a growth in this trend for the next years. The survey involved all the Italian companies active in the national **ITS** market.

The research outlined the economic picture of the Italian **ITS** sector, in terms of turnover, investments, personnel employed, imports, exports, principal clients, ..., with the objective to estimate the importance of such sector to the national economy.

The study permitted to trace a map of the supply sector for Italian **ITS** Systems as well as for certain areas of demand (Local Administrations, Public transport companies, Infrastructure managers, Freight Villages), in terms of present economic values, predicted investments and the prospects of short/medium term development.

According to the results of the survey, the most promising **ITS** systems and services for the next future in terms of potential market are expected to be:



- **ITS** for traffic management and control
- **ITS** for fleet management and logistics
- **ITS** for vehicle control and navigation
- **ITS** for user information services
- **ITS** for automatic payment

The Future: Galileo

Italy has always supported Galileo since the first phase of the project which has lead the European Union to develop a satellite navigation system for civil use, independent, but interoperable with GPS.

Together with France, Germany and Great Britain, Italy is indeed one of the major sponsor of the project, participating with 17,38% financing contribution, and Italian companies are directly involved in the realisation of the project.

The conviction is that Galileo will have an essential impact on the life of each Italian citizen. Galileo will have a key influence on the creation and development of new mobility systems and services, both for passengers and goods transport, in a wider and wider European context.

Galileo will encourage the integration level of systems, transport modes and networks, so allowing the user to use in the most comfortable way all transport modes to reach his/her destination, by optimising route time.



Galileo benefits will be even more important for goods transport. Operators will be able to ensure the customers a more and more efficient service and to control in a more effective way and in real-time, their trucks, wagons or containers.

The availability of a common reference scheme for services generated by Galileo, can promote their market development. So, realising the National Architecture **ARTIST**, Italy has created the conditions to the maximum development of systems and services based on Galileo.



TTS Italia Activities 2007-2008

Our Priorities for 2007-2008

Activities for the years 2007-2008 have been focused on six primary objectives:

- To update the information base of the Association's Telematic Observatory through researches aimed at defining the current state of diffusion in both short and medium term time periods of **ITS** technologies and systems in strategic transport sectors and their market penetration
- To strengthen **TTS Italia**'s instruments of communication to eventually supply updated and timely information on activities, initiatives and projects being carried out in the ITS sector in Italy and the world
- To stimulate discussion on themes of interest within working groups instituted by the Association's Technical Committee
- To promote the Italian **ITS** sector abroad by means of participation in international exhibitions and meetings with foreign delegations
- To participate in international initiatives and projects on **ITS**
- To carry out training activities in the **ITS** sector

The National ITS Observatory

In 2001 the Association established an Observatory to monitor the development/diffusion of **ITS** in Italy, with the primary aim of creating a continuously updated base of information about the Italian situation in the transport sector that is strategic for the National economy.

The Observatory is managed directly by the Secretariat of the Association. The research work carried out within the Observatory deals with the prediction of the situation in the **ITS** sector, in particular, on the expected demand for new **ITS** technologies, systems and services. The results of these studies can be used by public bodies and **TTS Italia** member companies as a knowledge base to support decisions on investment strategies and the promotion of the **ITS** sector in our country.

In 2007-2008 the Observatory activities have been focused on the following study:

- **ITS** Best Practice in the Local Administration.

The aim of the survey was to define **ITS** initiatives/projects/applications realized, in progress or planned by Regions, Provinces and Municipalities on the following sectors:

- Road pricing
- Urban, extra-urban and intermodal freight management
- Public transport management
- Integrated solutions for road safety and monitoring and data management on road accidents
- Infomobility
- Electroning ticketing and fees integration

For each **ITS** initiative/project/application, information have been requested about objectives, current status of development, timing, population and involved area, benefits and critical aspects, compliance with **ARTIST** – Italian **ITS** Architecture, costs, funding, etc.

The survey was realized in collaboration with P.O.R.E (Progetto Orientamento per le Regioni in Europa) a structure of the Italian Government, the University of Rome "La Sapienza", and Club Italia. The study involved councillors responsible for traffic/viability/mobility of 242 Local Administrations divided in 20 Regions, 108 Provinces and 114 Municipalities.

The survey results, which gained 38,8% of responses, have been made available in July 2008.

Communication & Dissemination

The dissemination of knowledge about **ITS** is one of the institutional priority tasks of **TTS Italia**. Since its inception, the Association has dedicated considerable resources to identify and prepare the most appropriate and qualified communication instruments to guarantee updated information to members on **ITS** systems regarding initiatives and projects being carried out and development trends.

The **TTS Italia** dissemination tools are:

- **The website www.ttsitalia.it**

The website is composed of a public area and a member-reserved area, accessible by password. The public area is bilingual, in that each page of the Italian version has an analogous page in English.

The **public area** of the website provides clear and easily accessible information about **ITS** and what is done in Italy in this sector through the activities developed by the Association and its members. The site is therefore aimed at different types of users, such as companies and experts in the sector, public administrators, the research world, students, but also the ordinary citizen who wants to know more.

The **TTS Italia** website also offers a news service, which is updated on a weekly base by the Secretariat of the Association with information regarding projects, initiatives, R&D programmes, conventions, events and products.

The **reserved area** is organised in folders containing the principle directives and laws, which regulate the sector both in Italy and in Europe, information on how to access the available financial opportunities for research and development and for pre-competitive projects, national and international tenders, reports and studies on **ITS**,...



The website registers over 90,000 contacts every month from all over the world.

- **The Newsletter**

The Newsletter constitutes a communication tool for the Associates on **ITS** activities in progress at both national and international level, initiatives and opportunities. The Newsletter is set by e mail to the Association's database and it is also accessible on the Association's website

The objective is to reach also a non-specialist audience, such as managers and public decision-makers, to inform them of best practices, social and business benefits and opportunities of **ITS** and news about the systems and services market while taking a look at what is happening on the international scenario.

- **The Database**

The contact database comprises about 6,000 Italian contacts and about 4,000 foreign references and is one of the most complete in existence in Italy for the **ITS** sector. The Italian contacts include the managers of the transport department of the Local Authorities, Public Transport Companies, Motorway Operators, Logistics Operators, etc. The foreign database contain contacts from the National **ITS** Associations and the participants in the European and worldwide **ITS** Congresses.

- **TTS Italia Handbook**

The TTS Italia Handbook is an annual report in English including a short overview of the activities carried out by the Association and the company profiles of all the associate members of **TTS Italia**.

Congresses & Meeting

The promotion of the Italian **ITS** sector at national and international level is a strategic mission for **TTS Italia**. For this purpose, since its foundation, **TTS Italia** has spent big efforts in participating in events held both in Italy and abroad and has also organised workshops and conferences in strict collaboration with its Associates.

In the 2007-2008, **TTS Italia** has been involved in the following events:

14th ITS World Congress- Beijing, October 2007

TTS Italia attended the **14th ITS World Congress** held in Beijing (China) from 9th to 13th October 2007. At the **TTS Italia** booth, called "*Italian excellence in ITS*", TTS Italia members Atac, Mizar Automazione, Octo Telematics and Thetis showed their innovative **ITS** solutions for private and public urban transport, freight transport management and **ITS** services for insurance companies. The stand of **TTS Italia** also acted as meeting point for all the Italian participants attending the Congress and for the Italian Trade Commission in Beijing.



During the Congress, **TTS Italia** distributed the "*TTS Italia Handbook 2007*", both in the English and Chinese versions, reporting the activities performed in 2006-2007 by the Association and a short description of its members.

Olga Landolfi, **TTS Italia** Secretary General, chaired the "*Smart Road Information I*" session, dedicated to advanced infomobility applications developed across Europe.

"Telemobility 2007" Convention- Monza, November 2007

TTS Italia attended with three different papers the Telemobility 2007 Convention, a landmark event for satellite navigation, infomobility and tracking&tracing services. Francesco Mazzone, member of **TTS Italia** Board of Directors, attended as chairman of the "*Telematic systems for emergency services*" session.

Francesco Pierri, Infomobility Working Group Coordinator, took part as well attending the round table "*Telematic and Infomobility*". Enzo Galdi, Transport and Freight Working Group Coordinator, held the paper "*Fleet management new borderline: integration with the telematics services of the logistic infrastructures*".



"New Technologies and Freight Transport" – Rome, December 2007

On the 11 of December 2007, **TTS Italia** participated in the event "New Technologies and Freight Transport", organised by Federtrasporto, and aimed at presenting the report *"New Technologies and Freight Transport – Intelligent goods on intelligent network"*. TTS Italia is author of the two chapters on **ITS** market and **ARTIST**, the Italian **ITS** Achitecture.

"Mobility, Territories, Technologies. Infomobility as priority for Italy" - Rome, December 2007

On the 13 of December 2007, **TTS Italia** attended the event *"Mobility, Territories, Technologies. The infomobility as priority of the system Country"*, organized by the Department of Regional Affairs and Local Authorities of the Italian Government. Such event was held at the Chamber of Deputies Conference Hall.

During the Conference **TTS Italia** presented the proposal for a National **ITS** Strategic Plan *"ITS Systems: Ideas for a New Mobility of the Country"*.



"ITS Europe" – Geneva, June 2008

TTS Italia participated in the 7th **ITS** European Congress entitled *"ITS for Sustainable Mobility"*, held in Geneva on 4-6 June 2008. Leonardo Domanico of **TTS Italia** Secretariat attended as speaker to present the paper titled *"EGNOS in real life for freight transport"* performed in collaboration with Telespazio in the frame of the Telespazio project named MENTORE.

"The Role of New Technologies to Develop Maritime Connection" – Rome, June 2008

On 11 of June 2008 **TTS Italia** organized the event *"The role of new technologies to develop maritime connection"* in collaboration with Federmobilità, the Italian association of the Local Authorities.

At the event participated the Italian Ministry of Infrastructure and Transport, Assoporti (the Italian network of the ports), Siemens and SeT – ElsagDatamat Group (both ordinary members of TTS Italia), Puglia Region and Mediterranean the sea motorway network. Ms Olga Landolfi, General Secretary of TTS Italia, and Ms Annita Serio, General Secretary of Federmobilità, chaired of the event.



"Urban and Extra-urban Mobilty: funding and technology solutions" – Rome, October 2008

On 15 of October 2008, **TTS Italia** participated in the event *"Urban and Extraurban Mobilty: funding and technology solutions"* with a speech of Mr. Gabbuti, **TTS Italia** President.

Some members of **TTS Italia** such as the Italian Ministry of Infrastructure and Transport, Project Automation, Famas System and Sodi Scientifica attended the event.

"International ITS Conference & Expo 2008" – Shanghai, October 2008

TTS Italia participated in the *"International ITS Conference & Expo 2008"* held in Shanghai (China) from 15th to 18th October 2008 with a stand.

In the **TTS Italia** booth Atac, Thetis, Sodi Scientifica and Ubiest/Elda engineering Group showed their latest **ITS** solutions for private and public urban transport, freight transport management and **ITS** services for infomobility.





Technical Committee Activities

The Technical Committee of **TTS Italia** has seven active Working Groups on strategic themes for the development and deployment of **ITS** in Italy.

- Urban traffic control
- Collective urban transport
- On-board vehicle safety
- Road-tolling
- Dangerous goods transport
- E-call
- Infomobility

The Working Groups are composed of experts of the Associates and their objectives are analysis, investigation and elaboration of proposals on identified subjects. The goal is to develop proposals for standards, design, strategies, and methods to accelerate transport system innovation in Italy, through the creation of forums for discussion open to all the actors active in the sector.

The Working Groups are open to all the Associates concerning their own specific interests.

The Working Group activities began in 2005 and in 2006-2007 mostly have regarded the elaboration of input/comments/integration on the Proposal of National **ITS** Strategic Plan.

The final results of the different Working Groups were provided in November 2007 and integrated with the final version of the National **ITS** Strategic Plan Proposal presented to the Institutions the 13th December 2007.

The National ITS Strategic Plan

In 2007, TTS Italia, on request of the Italian Ministry for Infrastructure and Transport in 2005, has worked out a proposal for a National **ITS** Strategic Plan.

The proposed Plan is the result of two years discussions which involved all the main **TTS Italia** associated members- institutions, private companies, research centres and universities- and it aims to propose several **ITS** themes priorities identified on the basis of the macro objectives of the national transport policy. It also intends to define potential measures and instruments to realize the above mentioned priorities.

The Plan identifies five theme areas of strategic relevance for the national transport sector:

- User Information services
- Traffic Management
- Local Public Transport
- Freight Transport and Logistics Management, including Hazardous Freight Transport Management

■ Safety

For each theme area, twentythree priorities, the actions needed to realize them through the National Architecture Instrument and the expected benefits were defined on the basis of the comparison and research of a general agreement from the different actors and groups of interest represented in **TTS Italia**.

The final aim of the document is to represent a real contribution for the definition of an **ITS** national policy which enables Italy to face all the challenges coming from the interoperability needs showed by the European systems and from the launch of Galileo expected in 2013. In this view, the objective is to exploit the great opportunities offered by **ITS** to the integrated development of the national transport system and logistic, ensuring benefits to the economy, to the competitiveness and to the life quality.

The Plan document "*The ITS Systems. Ideas for a new mobility of the Country*" was presented on the 13 of December 2007 at the Convention "*Mobility, Territories, Technologies. The infomobility as priority for Italy*", organized by the Ministry of the Regional Affairs and the Local Authorities at the Chamber of Deputies Conference Hall.

European Projects

TTS Italia has been involved since July 2007 in MENTORE, a European projects co-financed by the European GNSS Supervisory Authority .

Participation in the project constitutes a great opportunity for the Association to add to its internal know-how and transfer this to its members. This increases the value that **TTS Italia** can give to its associates and, therefore, makes it more attractive to potential new members.

MENTORE (iMplemENTation of GNSS tracking & tracing Technologies fOR Eu regulated domains)



MENTORE is a two-year project promoted by the European GNSS Supervisory Authority (GSA) through funds from the 6th Framework Programme.

Capitalising on the results of previous European research, MENTORE analyses the technologies, service platforms, market scenarios and the service provision schemes of EGNOS/Galileo-based tracking & tracing regulated Services.

MENTORE implements and operates 5 real-life Pilot Service Demonstrations in various application domains: transport, freights and goods, animals and persons.

MENTORE supports the Commission's "GREEN PAPER on Satellite Navigation Applications" and one of the main expected results of the project is to give guidelines for the creation of best practices in regulated tracking & tracing services of EGNOS towards Galileo.

MENTORE involves 18 Partners in 6 EU countries and Canada: services providers, industrial groups, telecommunication providers, market operators, transport authorities, regulatory bodies and agencies. In MENTORE, **TTS Italia** is involved as support for the project management and in the dissemination activities.

International Activities

One of **TTS Italia** main priority is to promote the internationalization of the national **ITS** sector and, in this sense, **TTS Italia** has been supporting its associates products and innovations at an international level for years through the participation at worldwide events such as the ITS World Congress.

In addition, over the last years, **TTS Italia** started activities aimed at promoting abroad products and activities of its associates, thanks to agreements and collaboration with ICE, the Italian Trade Commission.

In 2007, the participation in the **ITS** World Congress in Beijing represented an important opportunity to create a concrete collaboration with the ICE office in Shanghai through the organisation of bilateral meetings with Chinese firms interested in Italian **ITS** solutions. Delegates of **TTS Italia** Secretariat, and Atac, Mizar Automazione and Powersoft took part to such bilateral meetings, showing their latest innovations to the following Chinese bodies:

- Traffic and Transportation Engineering Department of the Tongji University, partner of the public transport agency in Shanghai;
- Shanghai Shentong Metro Co., Ltd.;
- Shanghai EB& SFSC International Logistics Co., Ltd., one of the main logistic operator in Shanghai;
- Shanghai PuDong Trucking Corporation, a transport freight operator managing more then 1000 vehicles;
- Bureau of Shanghai World Expo 2010 Coordination Traffic Department.



In October 2008, **TTS Italia** organized in collaboration with ICE Shanghai a second round of bilateral meetings with Chinese companies interested in Italian **ITS** solutions. Delegates of **TTS Italia** Secretariat, Atac, Thetis, Ubiest/Elda Engineering Group and Sodi Scientifica attended a series of the bilateral meetings, having the opportunity to present their latest innovations to the following Chinese bodies:

- City Traffic Management Bureau
- Shanghai Electronic ITS Co. Ltd
- Shanghai PuDong Trucking Corporation
- Bureau of Shanghai World Expo Coordination Traffic Department
- Shanghai Public Security Bureau - Traffic Police General Brigade -Traffic Science Technology Division



Participation in National & International Committees

TTS Italia represents the interests of Associates in various Committees and Working Groups. The contribution supplied by the Association is aimed in each case at the formation of a consensus on technical solutions and organisational propositions. In particular, **TTS Italia** participates to the following committees and working groups:

- The European Working Groups CEN-UNINFO on standardisation
- The Executive Committee of Federmobility, the Association constituted of Councillors of Mobility of the principal Municipalities and Regions of Italy
- The Export Group of the European Project eScope
- The Technologies Working Group of the Road Safety Council of Rome Province
- The Working Group on Infrastructure of the Haulage Register of the Ministry of Infrastructure and Transport
- The ARTIST User's Committee
- The Working Group on "Network Management" of the World Roads Association – AIPCR
- The Working Group on "Infomobility" promoted by the Italian Ministry of the Regional Affair

Agreements & Collaborations

National Partnerships

TTS Italia has signed agreements and works in synergy with Public Institutions, Local Authorities and Associations active in the national transport sector.

In particular **TTS Italia**:

- Participates in the Scientific Committee of FederMobilità, a no profit Association composed by the Government Administrations responsible for Mobility at Regional, Provincial and Urban level
- Collaborates with Città Mobile, the Association of Italian cities for sustainable mobility and the development of transport for the exchange of information on common goals and initiatives
- Has contacts with Ricerche Trasporti - the research, study and debate forum on transport in Italy - for the exchange of information on common goals and initiatives



International Partnerships

TTS Italia has established formal agreements with similar European and worldwide associations in order to evaluate and undertake common strategies and actions. In particular:

- **TTS Italia** is one of the founding members of the **ITS** Nationals Network, the Network of National **ITS** Associations promoted by ERTICO. The Network was officially launched in London on 7 October 2004 and aims at creating an information and promotion network on ITS of an international character.
- Participation in the platform is a primary objective for **TTS Italia**, above all for the exchange of information and experience with European partners with common interests. Furthermore, from the point of view of adopting common strategic agreements, the **ITS** Nationals Network constitutes an important informative channel for the benefit of their associates about the activities of the European Commission and decisions being adopted.
- **TTS Italia** has signed agreements with ITS United Kingdom, ITS Sweden, ITS India and ITS Russia with the aim of exchanging information and experience of programmes and projects in progress in different countries on the themes of traffic control, localisation and logistic chain management.

Training Activities

Since 2001, the Association has been heavily involved in a series of training activities conducted in collaboration with several University Departments. Certain activities regarded either the carrying out of cycles of lessons undertaken at a post-graduate level within specific Masters, or the assignment of graduation theses on themes of interest to the National **ITS** Observatory.

As far as the graduation theses are concerned, these are undertaken mainly at the **TTS Italia** headquarters with the objective of forming professionalism in the sector of **ITS** Systems, while also giving students the possibility of undertaking a research activity in a highly innovative sector.

In 2007-2008, the Association Secretariat managed modules of lessons on the topic of **ITS** through:

- The Master INVIA for Traffic Control Centres operators organised by the University of Salerno (January 2008)
- Seven Courses on **ITS** for freight transport companies on the behalf of the Haulage Register of the Ministry of Infrastructure and Transport (April – June 2008)
- The Master on Mobility Management organised by the University of Bari (May 2008)



TTS Italia Directive Board

President

Gioacchino Gabbuti (Atac)

Vice Presidents

Fabio Pressi (Autostrade per l'Italia)

Antonella Di Fazio (Telespazio)

Members of the Board

Francesco Mazzone (ACI)

Paola Carrea (Magnetis Marelli)

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Vito Mauro (Mizar Automazione)

Roberto Balduini (Octo Telematics)

Fernando Ventura (STMicroelectronics)

Adriano Scardellato (Targa Infomobility/Gruppo Elda Ingegneria)

Chairman of the Scientific Committee

Emilio Cera (Atac)

The **TTS Italia** Directive Board currently in charge was elected the 23rd of May 2008



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Mobility Solutions

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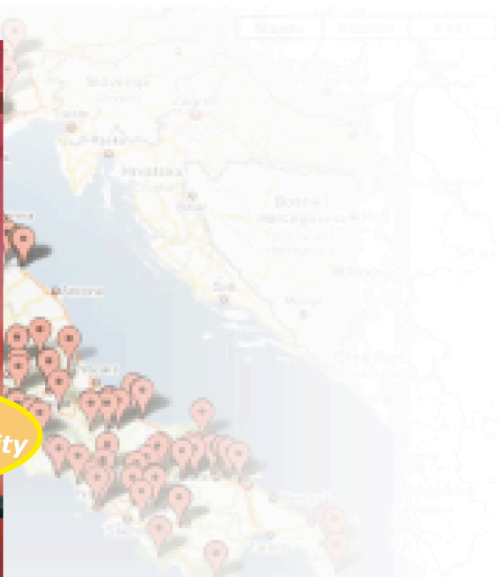
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for container security



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PowerDriver

for Public Transports and
On Demand Services

mobility.powersoft.it
Florence - Italy



TTS Italia Membership 2008 Directory



Founding Members



ACI – Automobile Club of Italy

The Company

ACI is a public, non-profit organization entrusted by the State to supply public services in the field of mobility and road safety items.

Having more than 1 million members, the ACI represents and promotes the interests of motorists, motor sport and tourism, protecting the interests of road users and supporting progress in the fields of traffic, especially road traffic, road safety and traffic education.

The ACI is a founding member of the FIA Foundation for the Automobile & Society.

ITS Expertise & Solutions

The ACI is member of CCISS (Centro di Coordinamento per le Informazioni sul Traffico e la Sicurezza), that is the National Traffic Information Centre, and it is involved in some important experiences of User Information at Regional Scale. Specifically, due to its high level of integration in traffic detection, and media broadcasting, as well as for the quick automatic news production, it deserves a particular mention the initiative carried out on behalf of Regione Campania, named MUOVERSI IN CAMPANIA (www.muoversincampania.it).

The ACI is member of the **eSafety Aware!** Platform established within the eSafety Initiative.

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The Company

ATAC is the Mobility Agency of the city of Rome and boasts a history of over a century in the area of the city's public transport. The company is in a state of constant evolution, which has seen it at the centre of major transformations such as the recent merger with Sta, Società di Trasporti Automobilistici, and is today the control room for all issues concerning public transport and private mobility. ATAC's objective is to offer a more efficient and streamlined service throughout the entire transport management system and the optimisation of its financial management.

In its role as Mobility Agency, ATAC is responsible for planning and regulating the entire mobility system and for developing systems and products which assure that the solutions offered to the city of Rome have been created with respect for its environment, its immense historical, artistic and natural heritage and for collective safety and the safety of the individual.

The plans and projects developed by the company result from the systematic convergence of operating companies and institutions which are involved in urban planning and mobility, for which ATAC offers itself as the principal actor in an integrated system contributing to the quality of urban life. Atac is the owner of the public transport fleet in Rome with about 3,000 vehicles serving more than 3 million inhabitants and users in the city, with a network of 2,217 kilometres with 354 bus lines, 7 tramway lines, 2 metro lines, guaranteeing the transport of over 1,2 billion passengers per year.

ITS Expertise & Solutions

ATAC sees ITS systems as a fundamental tool in the deployment of better services for the citizens and tourist of Rome. ATAC is in fact committed to guarantee the best outcomes of the public money and to ensuring quality, effectiveness and equity in relations with the general public needs in terms of urban mobility. The main expertises of ATAC in ITS and related fields are:

- studying, designing, creating and managing ITS technological tools to regulate mobility, including:
 - ✓ Integrated traffic control centres for the private and public transport management;
 - ✓ Infomobility projects: delivery of integrated mobility information via websites and mobile applications: ATAC Mobile development;
 - ✓ Limited Access zones definition, technological needs, their management, Area Pricing integrated strategies, e-permit system dedicated to specific fleets, such as for tourism coaches;
 - ✓ Public transport integrated (e) – ticketing;
 - ✓ Environmental and health impacts management: exposure, air quality, noise, climate change.
- town-planning and mobility planning, as well as in technical and financial mobility feasibility studies;
- designing and supporting implementation of ITS projects;
- designing infrastructures for transport and re-qualifying related elements;
- planning and designing surface and covered parking spaces.

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Autostrada Brescia-Padova

The Company

Autostrada Brescia Verona Vicenza Padova S.p.A is a motorway operator that manages the motorway among Brescia, Vicenza, Padova and Verona cities. The Company has been founded in 1952 and the shares are owned by public-private entities. The company operates on the basis of an ANAS S.p.a grant in the North-east of Italy.

ITS Expertise & Solutions

Autostrada Brescia Verona Vicenza Padova S.p.A, in the framework of the INFOTEN Project promoted by the European Commission, has developed the COMPANION system aimed at enhancing road safety in adverse road conditions.

COMPANION is an automatic system warning in real-time about possible dangers on motorway through LED. The objective of COMPANION is to create a signalling system to be activated in every emergency condition and in particular in case of fog, in order to draw users' attention and at the same time steering them towards a safer way of driving.

The system is based on a series of cabled light emitting diodes - LED- installed in traffic dividers, placed at a longitudinal distance of 50 metres the one from the other. They are connected among them and to the Traffic Control Centre through a telematic network. The characterising element of the system is the realisation of an automated infrastructure (collecting data on fog, accidents, queues, work in progress...) and a versatile, reliable and prompt way to activate commands.

COMPANION is integrated with the VMS system of Autostrada A4 for the diffusion of emergency information at long distance.

References:

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Autostrade per l'Italia

The Company

Autostrade per l'Italia, 100% controlled by the holding Autostrade S.p.A., is the biggest Italian Concessionaire.

Autostrade per l'Italia, beside the management of 2.854,6 km of network in concession, controls in its own right 8 Italian Concessionaires and 5 Service Companies. The network managed by the Autostrade Group is 3.408,1 Kms, i.e. the 62% of the Italian tolled network.

ITS Expertise & Solutions

The main task of Autostrade is focused on ensuring the maximum flexibility of the motorway network and to pursue the constant improvement of safety and security and quality of service offered to clients, also by means of innovative services. One of the key aspects of the motorway network is the diffusion of toll payment systems, which is the key element for traffic fluency. In particular the ETC Telepass system, operated by Autostrade in Italy since 1990, has gained a great success: today, the distributed OBU are more than 5 millions and this result is due to promotional and development activities parallel to the constant upgrade of technologies.

The Telepass system dramatically cuts the waiting times of vehicles and consequently motor emissions, for reduced environmental impact. Besides, the Company is involved in the definition of new application fields of Telepass technology, like the Limited Traffic Area control in many Italian city.

Autostrade per l'Italia has successfully exported its know-how; in fact Autostrade per l'Italia has operated the Austrian dynamic free flow multilane system (2000 km of tolled road network for HGV > 3.5 t) by means of the Europass Company, that, up to mid 2005 was controlled 100% by Autostrade S.p.A.

Main ITS solutions proposed by Autostrade:

- **ETC solutions:** a complete portfolio of turn-key technical solutions for all Road User Charging Schemes, from the usual monolane configuration to the real multilane free flow, suitable for motorway and urban mobility environments;
- **Access Control:** the systems allow the control of limited traffic areas access, parking, freight villages by means of the acceptance list check and to eventually start an automatic tolling process;
- **Autotraf:** a new generation technology platform which integrates and coordinates the various information sources making them accessible to the operators who monitor and manage the network;
- **Autotraf Plus:** Autotraf Plus shows the status of traffic by means of messages displayed on the VMS in a Branch Direction, based upon the Journey times application;
- **Infomoving:** Infomoving is a broadcast information service with a satellite TV format;
- **Safety Tutor:** the response to the objective of increasing the level of safety in the motorway network by means of the systematic control, direct and secure, of average and instant speed;
- **SIV (Traffic Information System):** the SIV is the working tool for the Autostrade Group Companies TCC used to manage events, May Day operations, Mechanic and Sanitary help and to enhance the data exchange quality among Operators and Customers.

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The Company

ELDA Ingegneria Group is the Italian leading provider of Infomobility software and technologies. ELDA Group's mission is to contribute on creating value and growth for its customers, fellows, partners and society in general, through the development of services and location-based affordable, accessible and safe technologies for people and properties. ELDA Ingegneria Group is the only Italian company offering round-the-clock infomobility solutions, thanks to a huge experience in the Information Technology field since early 1980s. ELDA Ingegneria early activities were aimed at developing software for engineering and land management applications. During 1990s, ELDA Ingegneria extended its proficiency to new industries and changed into a holding company now composed by 5 companies: Divitech, Giove, Targa Infomobility, UbiEst, Seisnet, each focussing on specific contiguous markets. Currently, its competitive edge is growing thanks to the skills each company has developed by operating on their own and with their fellow companies in the creation and development of more complex projects. ELDA Ingegneria Group action areas may be defined as follows:

- Street and landmark data survey services
- Custom digital maps
- Outdoor and excursion databases
- Vehicle and pedestrian on-board and off-board navigation systems
- Traffic information management and broadcasting
- Fleet management and asset tracking systems
- Web and mobile mapping
- Location-based services

ITS Expertise & Solutions

Our great know how and long-lived presence in the area of Information Technology, as well as the solid and flexible organizational structure, allow the Group to meet customers' needs with innovative, competitive and personalized solutions. The following companies are included within Elda Ingegneria infomobility Group:

- **Divitech** - www.divitech.it - develops solutions for Operating Control Rooms for emergencies handling (Safety Forces) and for quality control and monitoring of public transport and dangerous goods. Divitech software is especially designed for personal and vehicular location that can be integrated in commercial communication devices.
- **Giove** - www.giove.biz - produces digital mapping and road databases for land management and computer-assisted vehicle navigation. For over 10 years, the company has been co-operating with the world leaders in the manufacturing and distribution of digital maps for navigation systems, with the possibility to configure Databases in terms of geographical coverage, contents, and format according to customer-specific needs. Giove operates on the consumer market with MyNav brand, currently the only street, outdoor and tourist navigator.
- **Targa Infomobility** - www.targainfomobility.com - provides infomobility services for the automotive market. First European leading provider, with the bCONNECT brand, for the on-board "personal assistance service", Targa is now a partner and service provider in the FIAT Group Blue&Me Nav project.
- **UbiEst** - www.ubiest.com - offers on-line mapping and geo-referencing information services on a European scale - for Web, Wireless and LBS applications. UbiEst also provides a suite of mobile location-based products for Business and Consumer segments. UbiSafe, location based mobile service for personal security, contact locating and emergency needs was awarded a Grand Prize at NAVTEQ Global LBS Challenge 2008.

References:

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Italian Ministry of Infrastructure and Transport

The Institutions

The Ministry of Infrastructure and Transport is the public Institution responsible in Italy for the policies on transport. On the basis of the recommendations stated in the National Plan for Transport and Logistics issued in 2001, in the last years the Ministry have been spending big effort to create norms and the economical and administrative conditions to start a flexible and harmonic development of ITS in Italy, to encourage technological innovation, to allow the exchange of experiences and to minimise difficulties connected with the application of new technologies.

The development of the National ITS Architecture ARTIST, represents an important step in such direction.

ITS Expertise & Solutions

Promoting the development and the diffusion of ITS on a National level, requires the definition of a strategic Framework Architecture providing the guidelines to make the different ITS applications integrated, interoperable and able to dialogue through a common language.

For this reason, in September 2001, the former Italian Ministry of Infrastructure and Transport (now Italian Ministry of Transport) promoted the ARTIST (ARchitettura Telematica Italiana per il Sistema dei Trasporti) Project aimed at defining the National ITS Architecture.

The ARTIST Project derives from the National Plan for Transport and Logistics (PGTL) and it aims at outlining the National Framework Architecture for the deployment of ITS in Italy, at large scale and in a multi/intermodal context from the present until the year 2010. The first phase of the Project, ended in January 2003, provided the first Version of the ARTIST Architecture.

The Ministry of Infrastructure and Transport is managing several projects for the Sustainable Mobility in the National Operative Program 2000-2006, such as:

- Projects of the integration of multimodal fee collection for Public Transport
- A multimodal ITS project to realize an integrated telematics platform amongst the ports of Puglia Region
- Three ITS projects for "city logistics", road-sea integration and dangerous goods in Sicilia Region
- A project for dangerous good transport monitoring and control in Campania Region

Finally, the Ministry also developed an "E-Learning Platform", training course on ARTIST and ITS technologies.

References:

Head office: Piazzale Porta Pia, 1 - 00161 Rome

Website: www.infrastrutturetrasporti.it

The Company

Mizar Automazione is specialised in the design, development and implementation of Intelligent Transport Systems (ITS). The company has operated in this field for thirty years and has developed advanced solutions for traffic control and fleet management (both public transport and commercial fleets), large-scale integrated systems in urban areas, and platforms for mobility information services. A recent area of expansion is the provision of web-based support services for traffic management and fleet transport operators.

Mizar Automazione's products and services are distinguished by their innovative content and technological excellence. The company maintains a leading edge in the ITS market through a strong emphasis on research. For many years, Mizar Automazione has played a major role in many European research programmes and also participates in national and international initiatives for the promotion of transport telematics, as well as the establishment of ITS standards and architectures.

ITS Expertise & Solutions

Mizar Automazione's high performance systems for traffic information, management and control are based on in-depth knowledge of traffic behaviour and long practical experience in their application. The company's highly regarded **UTOPIA** UTC system has been installed in numerous cities in Europe and outside. The flexibility of the latest applications offers highly cost-effective solutions for the optimisation of traffic flows.

Mizar Automazione has developed traffic control systems for all environments: urban areas, ring roads, major arteries and motorways. These include:

- **TIME** - ramp metering system for ring roads and motorways;
- **COMPASS** - management of messages for VMS collective guidance systems.
- **OMNIA** – the open platform that provides a uniform and user friendly interface for any number of traffic control and transport management systems which are plugged in autonomously or integrated within a common architecture.

Mizar Automazione offers a comprehensive suite of solutions for fleet management. These include:

- **FLASH NET** for public transport management and real time passenger information;
- **FLAG** for freight transport operations.

The adaptability of these solutions makes them equally useful for small-scale transport operations and large commercial fleets.

Mizar Automazione is leader in Europe in the development of platforms for mobility information services, as well as of travel information services for the general public. The main products include:

- **MISTIC** – the integrated platform for traffic and mobility monitoring, control and information, powered by advanced and reliable proprietary algorithms for transport modelling and management. MISTIC includes solutions dedicated to the operation of Traffic Information Centres, that allow real time traffic data acquisition and provision according to European standards (DATEX);
- **X-ROAD 24** – TMC service on the internet (FTP, XML).

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SATAP – Autostrada Torino Milano e Torino Piacenza

The Company

SATAP - Autostrada Torino Milano e Torino Piacenza - is a motorway operator that manages the A4 and A21 motorway section in the North of Italy.

ITS Expertise & Solutions

SATAP is at the forefront in the development and installation of innovative ITS system for motorway management and control. Autostrada Torino Milano e Torino Piacenza has participated in the Euro-regional Project SERTI, CORVETTE and CONNECT, aimed at improving the quality of the services and guaranteeing the interoperability of such services across the national borders, with the aim of reducing the number of accidents and improving safety.

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STMicroelectronics

The Company

STMicroelectronics was created in 1987 by the merger of SGS Microelettronica of Italy and Thomson Semiconducteurs of France with the aim of becoming a world leader in the sub-micron era. The new company pursued an aggressive growth strategy, investing heavily in R&D, forging strategic alliances with blue-chip customers and academia, building up an integrated presence in major economic regions, and honing one of the world's most efficient manufacturing operations.

Since its formation, STM has grown faster than the semiconductor industry as a whole and it has been one of the world's Top Ten semiconductor suppliers since 1999. Today, an unrivalled combination of silicon and system expertise, manufacturing strength, Intellectual Property (IP) portfolio, industrial and academic partnerships, and one of the industry's broadest product ranges makes STM a world leader in developing and delivering semiconductor solutions across the spectrum of microelectronics applications.

ITS Expertise & Solutions

STM's contribution to Intelligent Transport Systems focuses on System-On-Chip solutions for GPS, Telematics, Navigation, Electronic Toll Collection and acoustic technology for in-vehicle applications. Among the innovative technologies developed by STMicroelectronics for ITS applications, a highly integrated and cost effective wireless (Bluetooth) handsfree carkit solution.

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Ordinary Members



3M Italia

The Company

3M is a diversified technology company with a worldwide presence in the following markets: consumer and office; display and graphics; electro and communications; health care; industrial and transportation; and safety, security and protection services. What makes us so diverse is our ability to apply our technologies – often in combination – to an endless array of customer needs.

ITS Expertise & Solutions

Company operating in the field of ITS for Road Safety, with specific focus on advance road signalling. 3M Italy has launched a Study Centre dedicated to Road Safety aimed at giving information on projects, standards, initiatives undertaken both at National and International level on Road Safety.

References:

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ABtrack

The Company

ABtrack is part of a group of companies active in design, manufacturing and sales of professional electronics.

Within the diversification policy the group is pursuing, ABtrack is the leader in the proposal of aftermarket products and solutions for the automotive, railway and craft fields.

ITS Expertise & Solutions

Our mission is to design, manufacture and sell hardware and software products for Vehicle Telematic Information Systems – VTIS and specifically products to support GPS location and tracking as well as wireless communication to enable the supply of Location Based Services – LBS namely services connected with the geographical position of transports.

Our Customers are service providers, system integrators and solution providers operating in all transport fields.

Our products are **mobile terminals** with on-board GPS receiver, GPRS/GSM/SMS communicator, inputs/outputs (digital and analog as well as audio), ports (serial, USB, CAN), internal back-up battery, on board accelerometer and movement sensor. The core of ABtrack's terminals is a proprietary ARM9 CPU module.

The basic versions get onboard a BSP Board Support Package designed in Linux Embedded environment.

API – Application Programming Interface and terminals with configurable application software on board are available as well.

ABtrack supports its clients during their software design and is able to support also hardware upgrade and customization when the quantity justifies this approach.

Some applications – tracking and location of vehicles is generally integrated with checking and monitoring of tools and goods onboard the vehicle, monitoring of vehicle parameters, interfacing external peripherals – run by our terminals:

- cranes on hire worldwide
- snow-plough blades
- busses in Local Public Transport fleets
- motorway service vehicles - mobile men-at-work indicators
- waste collection, transport and disposal
- concrete transportation
- workforce management – installation and servicing of electrical panels

References:

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Website: www.abtrack.it



ANM – Agenzia Napoletana Mobilità

The Company

ANM is the public transport company of the City of Naples. It includes a fleet with more than 1000 vehicles that transport every day over 175.000 passengers.

ITS Expertise & Solutions

ANM is a leading public transport company in Italy as regards the adoption of innovative solutions for Fleet management and infomobility services to public transport users.

References:

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Autostrada dei Fiori

The Company

Autostrada dei Fiori is the motorway operator that manages 113 Km in the North West of Italy.

ITS Expertise & Solutions

Autostrada dei Fiori is at the forefront in the development and installation of innovative ITS system for motorway management and control. Autostrada dei Fiori has took part in the Euro-regional Project SERTI, aimed at improving the quality of user information services and guaranteeing the interoperability of such services across the national borders.

References:

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Autostrada Venezia-Padova

The Company

Società delle Autostrade di Venezia-Padova is the operator of the Venezia-Padova motorway and it is one of the first motorway operators founded in Italy.

ITS Expertise & Solutions

Società delle Autostrade di Venezia-Padova manages the Mestre-Venice beltway that is one of the "red spots" of the trans-European network TERN. On the Mestre-Venice beltway, Società delle Autostrade Venezia e Padova has implemented an ITS integrated system for traffic monitoring, an automatic incident detection which ensures a full coverage of carriageways and 8 ramps equipped with traffic lights for Ramp metering.

User information are provided through VMS an internet web site containing data and pictures updated in real-time.

References:

Head office: 30175 Marghera (Venice) - Via Bottenigo 64/A - Italy

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Website: www.autovepd.it



Autovie Venete

The Company

Autovie Venete SpA is the operator of the motorways A4 Venezia-Trieste, A23 Palmanova- Udine and A28 Portogruaro-Pordenone-Conegliano.

ITS Expertise & Solutions

Autovie Venete operates the Traffic Control Centre of Palmanova. The Centre manages about 200 km of motorways in the North-east of Italy near the border with Slovenia and Austria and is linked with other centres in the Veneto region. The Centre presents innovative features responding to the user requirements of ITS solutions, as the Automatic Incident Detection system based on CCTV aimed at improving safety, and Radar – Infrared – Laser technologies used for traffic detection.

References:

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5T s.c.r.l. GTT Group

The Company

5T is a public-private consortium controlled by GTT (Gruppo Torinese Trasporti) founded in 2001 under mandate from the Turin Municipality. 5T is mainly aimed at management, maintenance and development of telematics systems for traffic and transport in metropolitan areas.

The company took the name from a pilot project (5T project) launched in 1992 in order to:

- help citizens move round the city more quickly;
- encourage use of public transport;
- reduce pollution.

The good results of this pilot project, verified by International Organizations, demonstrated the effective contribution of integrated telematic systems to improve mobility and persuaded Turin Municipality to set up the company.

ITS Expertise & Solutions

Nowadays, 5T S.c.r.l. is responsible of the development and day-by-day management of the:

- 5T system, one of the most advanced mobility management system in Europe;
- Traffic Operation Centre (TOC) developed for the last Olympic games hold in Turin in 2006.

The main ITS expertises of 5T are in designing, developing and managing of advanced telematic systems able to:

- improve traffic flow in the urban area and reduce congestion;
- reduce the atmospheric pollution caused by traffic;
- improve the performance of public transport services (trams and buses);
- provide real-time information services (Web, VMS, SMS ..) in order to improve travel conditions in the urban area;
- control access to limited access zone.

5T keeps high its knowledge on new ITS technologies participating actively in several European and National research projects.

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CRF – Centro Ricerche Fiat

The Company

Centro Ricerche Fiat S.C.p.A. (CRF) was founded in 1976 as the Fiat Group's major source of expertise in innovation, research and development. It was established as a Società Consortile per Azioni, a consortium, whose shareholders are Group companies. In addition to the head office in Orbassano (Turin), CRF has a further three branches (Trento, Bari and Foggia) and holds a controlling interest in the Plastics and Optics Research Centre (CRP) in Udine, whose work focuses on advance research in the field of optics and plastics for automotive lighting systems.

With a workforce of over 850 highly-trained professionals, CRF develops effective, creative solutions at competitive prices and also encourages technology transfer by training qualified professionals. It is therefore able to play an active role in the technological growth of the Fiat Group, its partners and the community in areas such as motor vehicles and components, safe and environmentally-friendly mobility, telematics, new materials and relative technologies, mechatronics and optics, energy.

Centro Ricerche Fiat has achieved significant, as witnessed by the 42 new patent applications it filed in 2007, bringing the total number of patents held to over 2,200, with a further 700 applications pending. CRF was awarded over 35 projects in the recently-launched Seventh Framework Programme 2007-2013, confirming its significant contribution to European research. Over the years, CRF has forged relationships with over 1,000 partners worldwide.

ITS Expertise & Solutions

CRF carries out research and technology scouting activities to provide all of CRF's clients with the most advanced and complex technologies and tools for:

- mobility and inter-mobility electro-telematic systems applied to private and public transport modes to improve the environment traffic conditions and safety, and to the personal environment to improve comfort, convenience and security;
- telematic control for utilities and processes;
- microsystems, one of the most important developing technological sectors in the automotive industry with investments expected to increase considerably in the future with the full penetration of MEMS/MST;
- nanotechnology, with a tremendously wide range of possible applications, from energy storage, high efficiency energy converters, new fuels, to super-tough and low friction coatings, iridescent paints, novel materials with electrical, mechanical, thermal and optical engineered properties, selective filters, electro-chromic coating, electro-optical films.

Centro Ricerche FIAT is engaged in several R&D projects aimed at designing and realizing innovative ITS solutions to improve driving safety based on the application of innovative technologies, also satellite.

Among them: SAFESPOT, CVIS, FESTA, EUROFOT, TELEFOT, E-MERGE, eVALUE, FIDEUS, CONTROL OF HAZARDOUS GOODS TRANSPORT, ROAD SAFETY IN FOG, TELEMATIC APPLICATIONS FOR PUBLIC TRANSPORT, CAR-TO-CAR COMMUNICATION CONSORTIUM

References:

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CSST-Centro Studi Sistemi di Trasporto

The Company

CSST is a private company providing, since 1969, high quality services and products in the fields of research, planning and engineering applied to traffic and transport systems for both passengers and goods. CSST has a broad spectrum of expertise to offer transportation consulting and design services in: Mobility and Transport Planning, Intelligent Transport Systems (ITS), Freight and Logistics, Road Safety.

CSST has always paid particular attention to the quality of its products, quality achieved through the high professional level of its staff, the constant training on the most recent innovations, the participation in the most advanced researches at national and international level and with the employment of techniques and methods of vanguard. In the field of R&D, CSST is active at both national and international level with the necessary know-how and professional skill to face the complex problems of the transport systems.

CSST has developed simulation tools and other software solutions related with mobility, traffic, transport, environment and safety (MATRIX Supervisor, MT.MODEL, TIMOTEO).

ITS Expertise & Solutions

CSST has a wide range of expertise and experience in the field of transport and traffic studies and applications, providing integrated solutions to transport problems at different levels (local, regional, national and international). CSST possesses research infrastructure and it can perform evaluation tests of advanced systems, regarding traffic/transport, environment, driving behaviour and traffic safety.

CSST has developed innovative solutions in the following ITS fields:

- ITS & traffic control systems;
- Mobility Management during special events;
- On-board innovative functions evaluation;
- Traffic Environment Impact assessment;
- Innovative Mobility services.

CSST has leaded the ARTIST national project, developing the National Telematic Framework Architecture for Transport (Italian Ministry of Transport).

During the XX Winter Olympic Games in Turin (2006), CSST has designed, implemented and coordinated the Traffic Operation Center (TOC), which is based mainly on MATRIX Supervisor, for managing, monitoring and controlling traffic, and provides information to the user through ITS technologies, both for urban and mountain areas.

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Digigroup

The Company

Digigroup is an Italian private company, specialized on the Public Transport market solution. The company act as technological vector in the Public Transport context, with the aim to provide products, services and solutions to the Customer.

Founded in the 1988, the company has been growing in experience regarding the ITC field applied to the territorial problematic and in the technologic network management sectors, working on the most important national projects.

ITS Expertise & Solutions

Digigroup provides advanced technologies and services for the Public Transport and the Mobility sector. The core ITS solution for Public Transport is the INTELLIBUS system. It is adopted by IRISBUS (IVECO) for the equipment of its own city and inter-city bus (vehicle) main models.

INTELLIBUS is an integrated telematic onboard system, designed to satisfy to the infomobility demand of the Public Transport of the next years. The system is based on an open modular architecture, compound of onboard modules, for data acquisition and management, and ground system, for data processing and fleet monitoring.

Digigroup produces also EcoFleetWare that is an info-telematics systems designed to satisfy the management requirements of the ecological fleet (garbage collection sector) concerning the following:

- Vehicle efficiency monitoring and alarm survey;
- Support to the preventive maintenance;
- Localization, security and management of the emergencies;
- Report and certification of the supplied service;
- Service monitoring and regulation.

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Digitek

The Company

Digitek is a high tech Company specialized in design and production of electronic instruments for cars, motorbikes, off road vehicles, automatic pay toll systems, railway signaling systems, car and motorbike racing. Digitek was created in 1983 starting with design and production of Formula 1 display and telemetry systems. Today Digitek has 230 people and a R&D division with 70 engineers, which can meet all customer needs related to quality, efficiency and time to market requirement.

ITS Expertise & Solutions

Digitek products and capabilities can offer solutions for a wide range of ITS application:

- Car cluster and control unit
- Motorbike cluster and control unit
- Off road vehicle cluster and control unit
- Alternative fuel control unit
- Racing and Formula 1 display, data logger, steering wheel
- Electronic Toll Collection
- DSRC and RFID systems
- Automatic Access Control
- Video surveillance
- Railways signaling – Eurobalise ERTMS/ETCS

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ENEA

The Company

ENEA is a Government Property Agency operating in the fields of Research and Innovative Technology for Sustainable Development. ENEA's actions aim at promoting development, competitiveness and employment, along with environmental protection. ENEA also provides advanced support to Public Administrations, in the energy, environmental and technological innovation sectors.

ITS Expertise & Solutions

ENEA carries out R&D activities aimed at developing innovative software models for real-time traffic prediction, freight and urban transport planning, transport services operation and environmental impact analysis.

Traffic management and impacts evaluation

One of the software tools conceived by ENEA is **MERLINO**, that is able to evaluate long term air quality on the network and to assess the impacts of different traffic control strategies. The software **TRIM** is a DSS to help Traffic Control Centre operators and supervisors for the selection and best implementation of traffic management measures in response to the occurrence of an incident, with the aim to minimize incident negative consequences on traffic. Another high-tech product usable for ITS applications is the ISHTAR suite built under the FP5 EESD **ISHTAR** Project (2001 – 2005). This tool includes a set of integrated models going from mobility and traffic analysis to direct transport impacts up to air pollution and noise maps, and estimates of population exposure and health effects. In particular the direct impacts module produced by ENEA (TEE = Transport Energy and Environment) could be used also as a separated stand-alone module for estimating the direct impact of ICT solutions and implementations.

Freight transport planning and management

ENEA has developed some software tool for city logistic and for functional, economic and environmental assessment of strategic technological, organizational interventions on Italian freight transport system.

CityLog® is a software tool developed by ENEA and Transport Dept. of "La Sapienza" University of Rome (DITS). It allows Urban Distribution Centre (UDC) operators to define in real-time the best delivering program even in a "within day" operational scheme, that is when goods are guaranteed to be delivered to final customers within the same day of their arrival to the UDC, although they were not pre-announced. CityLog defines vehicles tours and, for each tour, schedule, stops and route.

Interchain is an Integrated Decision Support System for multicriterial evaluation of strategic measures in the Italian Intermodal (road, rail and water) freight transport system. The system tool provides user with support for analyzing the actual asset of national goods transport system and allows him/her to define and simulate new scenarios modifying characteristics of the transport system (arc and nodes attributes, characteristics of the equipment for freight handling in intermodal terminal, new transport infrastructure and services, etc.). The integrated software tool is based on mathematical models (network graph, demand assignment, energy and environmental impact evaluation, cost-benefit analysis), data base and GIS. The database contains in particular data and information on multimodal transport network, such as cabotage maritime lines and "Motorways of the sea", industrial and agricultural production and commercialization.

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Fai Service

The Company

Fai Service is a cooperative corporation, born to provide services to automotive professionals.

ITS Expertise & Solutions

Fai Service European affiliates operate in the field of heavy transport, and for them Fai Service provides services such as:

- Toll payment card for Italian and foreign highways;
- An affiliate network of Oil deployment with discounted prices;
- Discounts on pump prices for fuel made on our network AS24, Tamoil;
- Utility products;
- Sea and railways shipping & booking services;
- Insurance and assistance services;
- Satellite localization and navigation, voice and textual service providing, online marketplace.

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Famas System

The Company

Famas System is a leading company in ITS solutions, in the production of Variable Message Signs, in meteorology and environment monitoring.

Thanks to its know-how, its experience, its human resources and three-division structure, Solution, Distribution and Service, Famas System can attend to customers through the process from idea to realisation, to customer service.

ITS Expertise & Solutions

Famas System projects and develops integrated systems for ITS, particularly for road safety.

Main ITS expertise is in fields of:

- Winter road maintenance;
- Traffic management;
- Parking guidance;
- Tunnel monitoring;
- Incident detection;
- Foggy condition help guidance;
- Variable Message Signs.

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Galileian Plus

The Company

Galileian Plus is an Italian SME established in 2005 within the GKH (Geo-spatial Knowledge Holding) company group, including also ESRI Italia and Dilmanet. The GKH group operates synergically providing Geospatial Information Systems, Solutions & Services.

Galileian Plus specific mission is to develop engineering solutions for applications, systems and services enabled by GNSS and advanced Sensing Technologies.

Galileian Plus is involved in relevant projects for implementing systems supporting seismic and volcanic risk management, as well as in studies for small space missions. Sophisticated models and software for GNSS data analysis have been developed in cooperation with Universities and advanced Research Centres.

ITS Expertise & Solutions

Galileian Plus has conceived the idea to develop and market value added services and products for ITS solutions requiring positioning accuracy of 1 meter or better.

Galileian Plus strategy for implementing these solutions is based on the GPortal platform including an infrastructure capable to produce GPS differential corrections and software for data post-processing.

GPortal services are made available to the users via Internet by a dedicated web site.

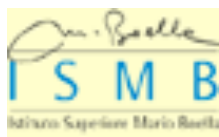
References:

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ISMB – Istituto Superiore Mario Boella

The Company

Istituto Superiore Mario Boella (ISMB) was founded in July 2000 by Politecnico di Torino and Compagnia di San Paolo. Ordinary members of ISMB are Motorola, SKF, ST Microelectronics, Telecom Italia Lab (TILAB). ISMB carries on research activities in the following innovative laboratories: Photonics, Antennas and Electromagnetic Compatibility, Networking, e-Security, Radio Mobile and Multimedia, Applications and Services. ISMB is also committed in the field of higher education and particularly it studies the intersection between technology and social innovation.

ISMB mission is to foster research and higher education, aiming at building an international centre of excellence in the ICT sector, focused particularly on wireless and e-Security. According to its mission, ISMB promoted Torino Wireless District and it is one of its founding members.

ITS Expertise & Solutions

ISMB offers high quality expertise in key ITS sectors related to:

- Research;
- Higher education training;
- ICT business strategy;

From 2002 a particular emphasis has been directed towards wireless technologies and e-security.

ISMB is also involved in several European Projects on ITS , as ETNITE (European Transnational Network for ITS Training and Education) and GST (Global System for Telematics).

ISMB has been also part of the technical/scientific work group involved in the Committee for the Promotion of the Galileo Programme composed by Piemonte Region, Province of Turin, City of Turin, Turin Chamber of Commerce and Finpiemonte SpA, with the aim of designing a timing facility.

References:

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The Company

Active since 1974, present on the market ITC for 25 years, with offices in Naples and Rome, Italsime designs and realises personalised ITS solutions as its qualified professionals are in charge of the research and the engineering of the entire realisation process, having the primary objective to create the right balance between the development and the integration of the components.

ITS Expertise & Solutions

The key ITS solution developed by Italsime is the "Mistral" software for the Public Transport market.

Mistral, developed by making use of modern web based methods with particular attention to the problems regarding the security, is able to be integrated with applications already in use, proposing to be an indispensable instrument of support to the decisions for the enterprise management.

Mistral offers a modular technological solution, flexible and capable of being integrated to support every requirement of the companies. Mistral can be defined as a company instrument panel, a real control area through which data, properly processed, supplies a set of indicators subdivided by sector (quality, technical, management-economic), visualised in either graphic or numeric form.

References:

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The Company

Iveco designs, manufactures, and markets a broad range of light, medium and heavy commercial vehicles, off-road trucks, city and intercity buses and coaches as well as special vehicles for applications such as fire fighting, off-road missions, defence and civil protection.

Iveco employs over 26,000 people and runs 27 production units in 16 Countries in the world using excellent technologies developed in 5 research centres. Besides Europe, the company operates in China, Russia, Australia, Argentina, Brazil, and South Africa. More than 4,600 service outlets in over 100 Countries guarantee technical support wherever in the world an Iveco vehicle is at work.

ITS Expertise & Solutions

Iveco believes that telematics is an important tool for the productivity of the road transport industry and has developed its telematics fleet management and driver assistance package, Blue&Me™ Fleet; it is state of the art in advanced vehicle utilisation and planning management, increasingly important aspects in terms of reducing vehicle operating costs and improving the profitable management of the vehicle and driver. 'Blue&Me™ Fleet' is the telematics solution developed by Iveco on the Fiat Group Automobiles Hardware platform, 'Blue&Me™', and the services will be accessible through the Qualcomm Mobile Communications Platform 'FleetVisor™'.

The onboard computer platform is able to interrogate the vehicle CAN BUS obtaining vehicle related data (e.g. fuel consumption, vehicle distance and speed, vehicle usage and other technical information) and permits also to monitor driving style.

The 'Blue&Me™ Fleet' hardware will transmit data using the cellular network, the vehicle operator will be able to access the telematics services by the web portal in his Internet browser.

In the solution that has been developed a dedicated integration service allows implementing the data into existing In-House software systems. Various reports are available, including specific trip monitoring and current vehicle positional status. Messaging from vehicle operator HQ to the vehicle make use of text to speech technology. An on-board GPS receiver allows data streaming via Bluetooth to external devices such as hand-held computers (i.e. PDA) and other portable devices (i.e. smartphone). Other features cover Bluetooth hands free speech telephony with voice activated (speaker independent) dialling.

Next developments for 'Blue&Me™ Fleet' will be a technical service feature whereby automated communication with the Iveco Customer Centre will provide all necessary information (vehicle and geographical) to enable the Assistance-Non-Stop service to intervene and tachograph remote download, an interface with the digital tachograph which will allow remote authentication and download (according to the new specification recently agreed and published by vehicle and tachograph manufacturers).

Iveco Stralis and Iveco Daily are the first Iveco ranges with 'Blue&Me™ Fleet'.

References:

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measure. analyze. innovate.

Kistler

The Company

Kistler has been active in Italy since 1963. In 1996 the main office in Milan was opened. Several regional offices and local agencies enable to guarantee a fruitful and fast local service.

Kistler Instrumente AG, now in his 50 Years anniversary, is the leading manufacturer of piezoelectric and piezoresistive pressure sensors, force sensors, accelerometers, torque sensors and the corresponding electronics and analysis software. We help our customers to find answers to their questions of every kind of applications in the domain of piezoelectric/piezoresistive measurement

Our specialists in the area of engine development, vehicle research, manufacturing process control and plastics process control are happy to support you with your daily measurement challenges.

Business unit Road and Traffic develop and produce sensor for Weight In Motion (WIM) solution.

Of course our sales team is also available to consult you in a fruitful way and for any application of forces, torque, pressures or vibrations measurements.

ITS expertise & solution

Kistler Weight In Motion (WIM) sensors provide optimum solutions for a wide range of applications, our technology is based on quartz, this material is perfectly stable under a wide range of operating temperature and give precise indication of weight for truck and car passing over the sensor with speed up to 200 km/h, small intrusion on pavement is a bonus, complete system installation typically takes less than 4 hour per lane.

Kistler Italia can provide a "turnkey" solution

Typical application: Weighing preselection, Traffic statistics and analysis, Bridge and Historical sites protection

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Magneti Marelli

The Company

Magneti Marelli is an international group operating in the design and production of leading edge systems and components for motor vehicles, with headquarters in Italy. With 45 Production Sites (55 production units), 9 R&D Centres and 27 Application Centres in 16 countries, a workforce of ~25,000 and sales of 4.5 billion Euro in 2006, the group supplies all the major car manufacturers in Europe, North and South America and the Far East. The business lines include: Lighting (front and rear lighting systems), Powertrain (gasoline, diesel and multi-fuel engine control systems; Selespeed robotized gear-box), Electronic Systems (instrument clusters, info-telematic systems, body electronics), Suspension Systems (suspension systems; shock-absorbers), Exhaust Systems, After Market Parts and Services and Motorsport.

ITS Expertise & Solutions

Magneti Marelli Electronic Systems is the Magneti Marelli business line which deals with automotive electronics and holds ITS expertise within the group. Based in Corbetta (Italy), it has 6 production sites, 3 research centres and 5 application centres in Italy, France, Germany, Spain, Brazil, Mexico and China. It currently operates in three areas: instrument clusters, body electronics and telematics.

Magneti Marelli Electronic Systems supplies telematics systems mainly to the Fiat Group (Fiat, Alfa Romeo, Lancia, Maserati) and PSA (Peugeot and Citroën). Magneti Marelli Electronic Systems offers a modular and complete range of infotelematics products based on four different product families: high-end infotelematics systems, radio navigator, portable navigation device (EasyRoad) and telematic boxes:

- The high-end infotelematics systems are devices which combine entertainment, navigation, telematics and telephony featuring a Hard Disk storage unit (to store music and maps covering the whole Europe), a 3D graphic processor, an advanced vocal interface (voice recognition and text-to-speech) and enhanced audio performances;
- The radio navigator has been designed to offer an original equipment system which is cost-competitive with portable devices thanks to the Bluetooth technology, which allows hands-free communications via the user's cell phone instead of the integrated telephone module, and to maps stored on SD memories;
- EasyRoad is an easy to use portable navigator with a 3.5" colour display, 20-channel GPS receiver, SD memory card reader and multimedia functionalities (music and video player, pictures viewer);
- The "telematic boxes" are highly integrated, low-cost systems for entertainment and satnav applications (such as Blue&Me/Blue&Me Nav), and safety (E-call box, a device that automatically makes an emergency call if the vehicle crashes or turns over).

Magneti Marelli is at the forefront in R&D activities aimed at developing new solutions for on-board ITS systems. In particular, the Company is currently launching a new ADAS product line (Lane Departure Warning, Traffic Signs Recognition, Night Vision), is working within various European and Italian financed research programs in the field of ITS and has established strict cooperation links with Research Centres and universities with the objective to offer advanced, and tailored, solutions to the needs of drivers and their requirements in terms of ergonomics and safety.

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The Company

M.A.I.O.R. is a company founded in 1989 specialised in the engineering of a decision support systems for public transport companies and airlines. Starting from 2001, M.A.I.O.R. has enlarged its activities to the development of systems for new sectors as management of airports, container terminals and railways.

ITS Expertise & Solutions

M.A.I.O.R. develops and realises innovative ITS solutions for public transport management, as MTRAM and HYPERPLAN. MTRAM is an integrated and modular system, developed for designing, programming and managing public transport services both in local and rural areas. The main objectives of the system are the definition of work processing and a data model that can provide a series of services, such as:

- rational organization of the information managed by public transport companies;
- automation of the most repetitive and complex actions as data reporting, statistics, timetables programming and printing;
- the definition of optimal shifts and rosters and their equal allocation to the driving personnel.

HYPERPLAN is a planning model for transport networks that can be used for private transport planning or, in general, for the development of urban traffic plans and as support of the urban mobility master plan. The implementation of the simulation model for bimodal travels, a real innovation introduced into the planning system, allows the prediction of transport demand in large urban areas and in the presence of exchanging car parks ("park and ride").

M.A.I.O.R. has also developed the FLEXY system aimed at designing and managing different kinds of flexible transport problems, as the definition of alternative routes for students and disable people transport.

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The Company

Mediamobile Italia S.p.A. has been engaged in Intelligent Transportation Systems (ITS) for over 10 years. The company acts in the ITS market in close cooperation with IPM Group S.p.A., a strategic partner and a shareholder of the company. With more than 4 million units installed in over 70 nations in Europe, America, Africa and Asia, IPM Group S.p.A. manufactures terminals for several high-tech sectors such as ITS and is the world leader in the sector of public telephone terminals and management systems.

ITS Expertise & Solutions

Intensive R&D investments have allowed the company to launch in recent years **BrainOnBoard®**, a new generation, fully integrated, product line for Public Transportation ITS.

BrainOnBoard® includes fleet management, onboard video broadcasting and multimedia information, automatic fare collection, automatic passenger counting, vehicle maintenance support, at-stop displays.

BrainOnBoard® is a toolbox of hardware and software modules that can be selected and assembled to build a solution tailored on customer needs. Core modules cover strategic functionalities, with adapters/connectors to third party products and components.

BrainOnBoard® is easily configurable and customizable because of its open and standard-compliant hardware and software architecture.

BrainOnBoard® is easily manageable by unskilled personnel with its self-managing and self-healing autonomic technology.

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Octo Telematics

The Company

Octo Telematics (www.octotelematics.com) is now leading in Europe the deployment of Telematics for Insurance Application. The company provides Complete Solution for Pay per Use, Safety and Security on the road that enables new Insurance Products in the Insurance Market.

The solution is composed by the On Board Units (the Clear Box) and Services Center, where the data are processed and dispatched to Insurance and Car Maker Companies.

Octo Telematics is part of Nomos holding, that controls also Meta System (www.metasystem.it), a European Leader in Electronics and Telematics Equipment for Automotive Sector. The group, founded in the 1973, has now more than 1200 people (120 in R&D) and a turnover of 250 Mln Euro.

ITS Expertise & Solutions

Octo Telematics started 5 years ago to build a complete Telematics able to perform Statistics on driver behaviour, type of mileage, accident detection and reconstruction, traffic detection and estimation.

Generally the system is conceived for **Pay per Use** application. Currently market leaders as: Unipol, Generali, Axa, Unipa, Sara Assicurazioni, Lloyd Adriatico (Allianz Group), Norwich Union, Mapfre, BMW, Fiat, Toyota and more are using Octo Telematics solution. The system is also able as well to perform Antitheft Satellite Tracking, Fleet Management and Remote Diagnostic.

From 2008 the Telematic Solution is upgraded with Environmental Impact Estimation function that allows to know real impact of the single and group mobility on the environment, enabling Pay (or Save) Per Pollution and Green driving schemes.

Currently Octo Telematics manages more than **650.000** on board units installed in Europe, the system is efficient, robust and low cost due to mass production (more than **850 units per day**, with peak of 1000). The daily rate will be increased in the 2007 due to new deployment with some very important players in the Automotive and Insurance sector.

Octo Telematics provides turn key solution with GPS/GPRS/Accelerometer units and web based Service Center, with no investments from customers and customizable for Insurance Companies specific needs. The coverage is worldwide, thanks to huge GPS and GSM networks presence.

References:

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The Company

On the current total-service house software scene PluService, created in 1988, occupies an important position in the field of computerised management systems for Local Public Transport companies (LPT), with over 200 working customers evenly distributed throughout Italy and over 1000 applications installed. PluService designs and creates modular computerised integrated management systems (ERP), capable of providing maximum working flexibility, reliability and rationalisation of the various working phases. PluService places direct, in-depth knowledge of the needs and structure of the reference market and the Customer, gained in over 20 years activity in the LPT sector, at the centre of its application methods. The products offered by PluService are based on its own Superdriver™ platform, and are aimed at Public and Private LPT Companies. PluService's approach to solving the problem is to offer Customers, thanks to its twenty years of specific experience, with made-to-measure solutions created using System Integration logic, through innovative, modular and integrated procedures, using the best technology available on the market and its own highly qualified professional resources. Study, research, design, training and assistance are the cardinal points of our strategy.

Involvement in R&D - with annual investments of close to 15% of the turnover - has enabled PluService to offer its Customers some of the most advanced and innovative services and solutions.

ITS Expertise & Solutions

The core solution of PluService for Passenger Transport is Superdriver™.

Superdriver™ is a modular integrated management IT system. Each office is, in fact, organised in a fully independent manner, but constantly in contact with all the other units, in a network of continuous data exchange.

Superdriver™ is the result of the know-how acquired by PluService in years of specific information technology experience in the Local Public Transport sector (LPT).

The system produces higher levels of company profitability through automated management of all operations, optimising the efficiency of offices and staff and helping to define more effective levels of organisation within the staff.

Superdriver™ has an extremely ductile and easily accessed database. Using this database, it is possible to transfer information of specific interest to individual users, which can then be customised according to the use to be made of them. The adoption of this system for total computerisation of the company gives a certain reduction in management costs, with immediate economic returns. It also helps to build a solid image of organisational efficiency for the outer world.

The ERP system includes Ticketing systems (traditional with paper printers or new generation - contactless or ticketless); Internet Booking and On line ticket purchase service; Timetable search (traditional or on line); AVL and AVM systems for the instant localization with satellite systems; Demand Responsive Transport, Fleet and Crew Management and Planning, Travel Planner systems; Repairs and Maintenance Management; Quality Management; Wages; Purchase and Account Dept management; Application on smart phones: information system and Interface with different devices for interactive information systems and others.

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The Company

Founded in 1995, the Company is based in Florence. At the present time, Powersoft has a significant presence on the market as technological company acquiring a leadership in advanced electronics and software solutions for added value services, in both Logistics and Public Transport ITS fields since more 10 years.

ITS Expertise & Solutions

Powersoft covers the design & production of all the system components as hardware and firmware, and the software for the related services. It guarantees a very high affordable value to the produced systems by the company. Powersoft today is one of the most important provider of on-board units in Italy.

TraceBox[®] device: An innovative, very small, technological advanced with crash recorder on-board unit designed to be easy-to-install. Since it can be used in many fields as: pay per use, info-mobility, anti-theft, insurance and more, the interest for this kind of platform has been immediately by the market.

GrilloParlante[®] device: Offers a very new service to the driver. Using the lasted AI techniques, it advises the driver via synthesized voice the road speed limits, the most dangerous points along the roads, and much more, suggesting then the better driving style.

FollowYou[®] device: Powerful and small, the device is devoted to Personal Location services. It is both an enhanced GPS receiver and a GSM/GPRS four-band working around the word phone. The advanced distinguishing features put the device over the top of the technology and, with the advanced services supplied, a superior Personal Location system is composed. Children, vulnerable adults, as well as lone workers or assets can be effectively located via cellular phone and Internet.

ElectronicSeal device: It is a new device designed for door opening event recording on containers and truck. It can be used for anti-theft and alarm notifications as well as integrity certification of the container and goods.

PowerTr@ck[®] system: It is a service offered by Powersoft devoted to manage in a very simple way the usual Track & Trace services for goods logistics and many other services as satellite anti-theft, infomobility and more by using *TraceBox[®]*, *Grillo Parlante[®]* and other devices.

PowerDriverDTSS[®] system: Demand Responsive Transportation system, used in some Italian cities with different configuration for urban and extra-urban public transport, weak peaks as alternative to the usual transport lines, taxi-like services. The Powersoft PowerDriverDTSS[®] system used in Milan represents one of the most important DRT system used in Europe as number of vehicles used, people using the service and urban extension as well.

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The Company

Project Automation was established in 1999 as a management buy off of a Philips group former company, which was operating, since 1987, in the process automation field, namely in air pollution and water/gas/energy distribution network control. At a later time traffic and public transport control systems were added to company business areas.


Today about 200 people are employed both in the main premise of Monza as well in the many regional branch offices.

ITS Expertise & Solutions

Project Automation is a system integrator company with long experiences in ITS application fields such as:

- Traffic monitoring and control;
- Road pricing and Violation enforcement schemes;
- Public transport management /light rail(LRT) signalling systems.

The company has developed the ITS platform for the City of Milan. The architecture of the Integrated Mobility Management System currently encompasses centralised traffic-light control, violation enforcement, congestion charging, city video-surveillance, driver information through variable message panels, traffic data detection, air-pollution monitoring, Public Transport fleet radio-localisation. Project Automation is also well recognised in the field of light rail transport, thanks to the development of the concept of a fully integrated light rail management system. Under the brand name

of  this system is currently deployed in many Italian and European LRT installation as Cagliari, Messina, Birmingham, Dublin.

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The Company

Ribes Informatica is a System Integrator company since 1997. Ribes Informatica owns specific competences in analysis, design and development of web and mobile applications.

ITS Expertise

Ribes Informatica is involved in the following key applications:

- **Real Time Traffic detection:** Ribes Informatica is the Italian distributor of TrafficSense system which is able to detect real time traffic information using the data stored in mobile GSM national operator. The quality of this solution has been tested by independent institutions based in Israel and USA.
- **Urban Mobility statistics detection:** Ribes Informatica has developed and valued a specific solution for the statistic measure of mobility request through the reconstruction of routes covered by voluntary people with a system installed in their mobile.
- **Infomobility services management:** Ribes Informatica has developed and managed Città Informa, a mobility message platform which is a Vodafone product. Città Informa is the basis for the development of specific services for infomobility addressed to drivers.
- **Mobile phone parking payment:** Ribes Informatica has developed the Mobile phone parking payment system, which is being used in some Italian cities and it allows drivers to pay for parking by using a mobile text or phone call followed by a monthly bill. Also, the system is equipped with software and hardware tools used for parking control and management.
- **Mobile phone eticketing:** Ribes Informatica has developed the PagoCittà.SMS system, which allows users to pay for bus services and limited traffic area permission, as well as for parking services.

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SeT – Sistemi e Telematica

The Company

SeT is an ElsagDatamat company specialising in the transport and logistics sector. **SeT** designs, implements and manages IT solutions and services for public agencies and private operators in the transport and intermodal segments. The solutions offered are designed not only to improve efficiency, performance and security, but also to provide the customization and innovation which are distinctive features of the company's approach, assessing and applying innovative ICT technology to give customers a competitive edge.

SeT also offers consulting services for work process re-engineering, mainly addressing companies and entities in the transport and intermodal segment, including the customs area.

Elsag Datamat, the Finmeccanica group centre of excellence in Information & Communication Technology, represents the ideal partner for operators in this sector, offering an integrated portfolio of specialist technologies, information systems and advanced sensor products to support intermodal passenger and freight transport, including the management of key customer processes under outsourcing agreements.

ITS Expertise & Solutions

SeT has extensive information system and business process engineering experience. In particular, as specific business, **SeT** provides turn-key ITS solutions for:

- Freight terminal and ferry terminal management;
- EDI process management for sea - land - air transport operators (PCS - Port Community System);
- Maritime and port traffic control and its data management (PMIS - Port Management Information System).

SeT addresses both private operators in the transport and logistics sector (ship owners, terminal operators, forwarding agents and multi/intermodal operators) and public agencies (port authorities, management companies, harbour offices, customs, financial police,).

In the EDI (Electronic Document Interchange) **SeT** began managing the Genoa Port Community System back in 1990, providing an electronic document interchange structure for transport sector operators. The Company recently implemented a similar system for the Ravenna Port Community.

SeT is also accredited by the Italian Customs Service as a provider of electronic bill of entry and bill of lading forwarding services.

The last word in maritime/port traffic control and information management is the VTMS (Vessel Traffic Management Information Service) supplied by **SeT** as part of a joint venture with Alenia Marconi System and Finsiel (the customers are the Italian Ministries of Infrastructure and Transport). The system provides functions for maritime traffic control inside and outside the port, berthing management, port services and information exchanged by the port community. A system of high reliability and high precision closed circuit television cameras provides support for control room operators and security surveillance work in general.

References:

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Siemens

The Company

Siemens is present in Italy since 1899 when "Società Italiana Siemens per Impianti Elettrici Anonima" was founded in Milan.

The Group operates in the areas of information and communication, automation and control, power, transportation, medical and lighting with seven production sites and eight R&D centers.

ITS Expertise & Solutions

A brief overview of our capabilities:

- Siemens' proven traffic information and traffic management systems guarantee improved road safety, maximized road network efficiency, and reduced environmental impact;
- Our public transport management systems address quality of service by improving the availability of vital information and increasing safety and punctuality;
- Our demand management systems offer the latest proven technologies for our customers to maximize revenues and reduce the costs of implementation and operation;
- We offer commercial vehicle management systems to ensure that goods are transported safely and efficiently;
- We have developed incident and hazard response systems that expedite the deployment of police, rescue workers, and fire fighters, who are especially crucial in handling major events;
- Last but not least, our advanced driver assistance systems increase driver safety both inside and outside of the vehicle.

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The Company

SMA, the Intini Group's company with more than 60 years of experience, carries out, before and after its emergency interventions, actions of improvement of the conditions of security on the territory intended as a natural and social environment in order to reduce the current and future risks. SMA's systems and subsystems serve the public security as well, in cooperation with Police and Carabinieri. SMA manages complex processes based on meteorological surveys, microwaves remote sensing (weather radars), in the infrared (fires risk), in the following sectors: Territory management solutions; Infomobility; Homeland Security.

ITS Expertise and Solutions

Infomobility (Circulation, transport, traffic, parking lots)

SMA plans, builds and maintains complicated solutions devoted to technology and infomobility. This becomes possible thanks to the masterly integration of different technologies: smart video cameras, GIS systems and wireless infrastructures. *Some uses:* access control to traffic restricted areas, traffic and territory video surveillance, monitoring, count and classification of vehicles, traffic lights adjustments, parking management. The recording of data (traffic, pollutants and weather) are transmitted through different channels of communication (Wireless, Xdsl, GPRS etc.). The data bank of information and support for the decisions (system DSSS) are spread through multi-channel means (web, video and radio news, teletext, call centres).

Multimodal transport intelligent system

SMA plans an integrated management system and security for traffic, ports, airports, railway stations etc. For the Apulian ports, SMA has set up automatic gates (video cameras, number plate readers, RFID readers, roll readers), an informative and video surveillance system for the harbour areas by tracking vehicles, management of hazardous goods and harbour papers. Communications between peripheral units and headquarters occur through wireless technologies.

Homeland security

- **Urban security of public plants** - Reducing Italy's vulnerability from terrorist attacks; monitoring the territory in order to exercise control over criminality. Macro objectives which are attainable, thanks to SMA's systems;
- **The other face of liberty: security** - It is in progress the setting up of wide network putting through private video cameras to public security;
- **City video surveillance** – It consists of a video cameras network located in crucial sites, remote controlled by an operative station which is, in its turn connected, to the headquarters of Police and Carabinieri. The system checks crucial points of images acquisition, access control and number plates reading and adopts technologies for the synoptic processing of information, wireless communication networks;
- **Safe Stadiums** - The system checks access sites (with biometric identification) and people flows, detecting objects or suspicious behaviours, and is connected with the police headquarters. It adopts electronic cards too, (RFID technologies) for the supply of the services during the events;
- **Airport border check** - SMA sets up this kind of systems integrating some different technologies: video surveillance, protection and border anti intrusion, control over people moving around (for the information access), scenes analysis.

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Sodi Scientifica

The Company

The company was founded in 1964 as "Sodi Costruzioni Elettromeccaniche", the core of today's Sodi Scientifica. The initial technical design activities were accompanied by the production of electro-diagnostic equipment, then of products for environmental protection and systems for electronic detection of road traffic, thus giving rise to the Environmental Division and Traffic Division.

Sodi Scientifica offers itself as a partner for creating high technology systems in order to improve the quality of life. The Traffic Division has created Autovelox, which for many years has been the word for speed measurement (it actually appears in dictionaries of the Italian language) and other similar products. The Environment division produces systems – less known to the general public, but equally effective – for water treatment.

ITS Expertise & Solutions

For over forty years, Sodi Scientifica has been engaged in the development of systems that effectively contribute to gaining greater traffic safety. As of the '70s, its instruments have been adopted by the Italian police forces, so that "Autovelox", the trade name of the speed measurement device, has even been inserted into Italian language dictionaries, and are now widespread in most countries.

Sodi Scientifica designs, develops and realises advanced ITS technologies for traffic enforcement and monitoring, as:

- Speed camera sites
- Speed enforcement systems
- Red light cameras
- Traffic counters
- Reflex testers

Sodi Scientifica provides also valuable services of technical support for both in-house and on-site maintenance, through skilled personnel, advanced equipment and laboratories, operating all over Italy and abroad through its international network.

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Soft-in

The Company

Soft-in is an engineering company that operates in the field of industrial automation and Telematics. Its main goal has always been to resolve both the explicit and implicit problems of its client's projects.

Soft-in, thanks to its high level of experience in planning and engineering, has developed a know-how able to realise hardware and software products that satisfy today's Telematics and industrial automation market requirements.

ITS Expertise & Solutions

Soft-in has been one of the first European companies to believe in the potentialities of ITS and to invest in this new sector. The first results were so good that Soft-in now designs and realises Telematics applications for the major European Car Manufacturing companies and has developed emergency systems for DaimlerChrysler, Renault, Opel, BMW, Porsche, FIAT.

Soft-in is able to realise products and applications for:

- Transport and traffic control;
- Fleet management;
- Localisation systems;
- Tracking systems.

Soft-in has developed a product named "Position" that is an innovative and small localization system for car localization or fleet management. The main goal of this system is the easiness of its installation because no power supply or external connection for antennas is required.

References:

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The Company

Solari Udine is a manufacturing company specialised in providing turnkey systems for the transportation industry, following the customer from the system design to the after sale support.

The origin of the Solari business dates back to the 18th century when the Solari family began to manufacture tower bell clocks. At the beginning of the 20th century Mr Remigio Solari invented the split flap clocks that had lot of success throughout the world. During World War II the company was completely destroyed and re-founded on 1948 in Udine, Italy. Since then, Solari has been present in the Public Transport, Bus, Metro, Railways, Airports, Motorways and related fields like Parking Management.

Solari invented and patented the first real-time information display system working with split flap displays. On 1956 and 1957 the first systems were installed in Liège Railways station (Belgium) and at Vienna Airport (Austria). Few days after, the prestigious TWA terminal in New York was equipped with Solari Information Display Systems and many other hundreds similar systems have been installed all over the world.

During the last twenty years Solari innovated its solutions and its product range including the most advanced electronic solutions that, for what concerns Information Display Systems, brought to the manufacture of LED, LCD, LCD-TFT, Plasma and CRT displays and large boards. Moreover Integrated automatic announcement systems and telephone inquiry systems with digitized voice have been developed and installed. Latest developments related to Information Display Systems include graphical user interfaces, the introduction of the Intranet concept and the innovative Talking Signs (Remote Infrared Audible Signs) for visually impaired people.

ITS Expertise & Solutions

Besides Public Information Systems, Solari developed a Traffic Control System for Motorways and Highways, Multi user Airport Information Management that also includes Resources Management. For Railways, a part Information to passengers on Station and on-train, Solari developed also Events recorders and ticket validating machines. For Public Transportation Solari has developed an integrated solution including Automatic Vehicle Location, Time Attendance for drivers, on-board audio and video information, and public information at stations and bus stops. For Parking Management Solari offers an integrated solution including Pay and Display Machines, Displays for drivers guidance and centralised management system.

Other traditional products manufactured by Solari are indoor and outdoor clocks and terminals for time management, time attendance systems, access control systems, queue management systems and data collection systems.

Solari focus on satisfying customer requirements by tailoring its solutions on customers' needs.

The Design is then the important issue that has always distinguished Solari guaranteeing not only cost-effective solutions but also high aesthetic results that brought some of the Solari products to be awarded of important nominations and prizes. Some Solari products are even present at the Museum of Modern Art of New York.

References:

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t&t – telematica & trasporti

The Company

t&t was established in 1994 with the goal of applying electronic, computer science and communication technologies to the mobility sector.

t&t's offer, developed in phases and specific procedures with a problem – solving approach, is able to identify the solution that better meets the customer's needs. On the basis of the client's requirements, t&t **Identifies** the best hardware and software components, **Takes Care** of searching and selecting them on national and foreign markets; **Develops** products and components for a correct systems integration, **Guarantees** the supply, realisation, installation and start up according to defined functional, performance and business objectives, **Provides** specialised personnel training, **Ensures** the usability of the system to its customers providing guarantees and maintenance services. Each activity is developed in a technological network: a highly qualified personnel commits all its experience, cooperates with external consultants, liaises with other specialised firms and is well acquainted with the leading standards and market innovations in the sector.

ITS Expertise & Solutions

t&t's products and systems improve the mobility of people and goods in urban, metropolitan and extraurban areas and increase efficiency in the areas of traveller information, fare collection, fleet and personnel management.

The company operates in the Intelligent Transport Systems (ITS) sector and is able to offer various products and turn-key systems within the following business areas:

- Traffic & Mobility;
- Public Transport;
- Infomobility;
- Fleet and Goods Transport.

Among the innovative ITS solutions designed and developed by t&t are:

- **e-Mon** - e-Mon® is an environmental monitoring system which uses public transport buses as mobile sensors. The goal of this "on the move" air monitoring system is to overcome the limits of conventional monitoring technologies like stations in fixed points;
- **Exbus**® - The complete solution (hardware & software) for the monitoring and management of vehicle fleets, the certification of the services and the information to travellers;
- **Wastex**® - The Wastex® system is designed to drastically improve the efficiency of the urban and/or extraurban waste collection service. Monitoring all the kind of vehicles involved in these services means not only know their position, but also know the weight of their load, the group of served bins and the status of the vehicle itself.

References:

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The company

Tecnositaf spa is a SITAF spa company (A32 highway, Torino-Bardonecchia highways and Fréjus Tunnel operator) that designs, develops, builds, installs and manages systems and tools for the mobility control and road, rail and industrial safety

ITS Expertise and Solutions

Tecnositaf has developed a Fire Detector, a road and rail system which is able to analyse real time thermal external heavy trucks surface and it can provide alarm signal in case of problems.

Another important system developed by Tecnositaf is the "Road Management Tools", a system aimed at the supervision, control and management of road and highway infrastructures, which implements and integrates the technological systems installed along roads and highways. The system has been implemented in the new A32 highway Control Room, realised in occasion of the Winter Olympic Games held in Turin in 2006.

Tecnositaf has also developed products dedicated to video surveillance systems and alarms automatic systems such as Automatic Incident Detection AID or Traffic Monitoring TM.

References

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Telecom Italia

The Company

Telecom Italia is a major enterprise drawing upon tried-and-tested competencies and new competitive assets to transform and reinvent itself. As well as leading in its home market, Telecom Italia has built up a targeted international presence on markets that offer significant growth prospects (Latin America) and on high-growth technology markets (broadband in Germany).

Technological innovation, competency and reliability underpin the company's leadership across its increasingly convergent operations. The company is a force to be reckoned with in fixed-line/mobile telecommunications and the internet through brand names Telecom Italia, TIM, Alice and Virgilio, and in multimedia, TV and news through La7, MTV Italia and APCOM.

Ongoing research is managed by Telecom Italia Lab (TILab), the innovation centre of Telecom Italia's Group, whose workshops prepare cutting-edge technological solutions for the international market. The centre's labs are responsible for new applications platforms, new generation networks (such as the NGN2), and convergent services combining media, the web and telecommunications.

ITS Expertise & Solutions

Telecom Italia is also developing new solutions for the infomobility market.

The role of the telecommunication operator is crucial for the deployment of efficient and reliable infomobility services, and the Telecom Group is becoming one of the leading company in this sector in Italy.

The Telecom Group, through Telecom Italia Lab and TIM, has also designed and developed advanced ITS solutions for traffic management and control and fleet management.

In the 2007 Telecom Italia and Magneti Marelli have created a new consortium, called TEMA.mobility, involved on developing new solutions for infomobility market.

References:

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The Company

Telespazio, a joint venture between Finmeccanica (67%) and Thales (33%), is a world leader in satellite services: from management of satellites to Earth observation services, from satellite navigation to broadband multimedia telecommunications. Telespazio plays a leading role in the reference markets harnessing technological experience acquired over the years and through its participation in major European space programmes such as: Galileo, EGNOS, GMES and COSMO-SkyMed.

ITS Expertise & Solutions

In the field of ITS, Telespazio activities are focused on the following key aspects:

- Convergence between telematics, satellite navigation and mobile communication;
- Development and provision of location based applications and services for transport and mobility sectors;
- ITS exploitation towards the introduction and use of EGNOS (short term) and Galileo (mid term) technologies.

Telespazio has developed a platform, the **Navigation & Infomobility Service Centre**, for provision of a wide class of value added positioning services targeting professional, institutional and business markets. The Service Centre for Transport by Telespazio is a leading centre in space systems and satellite applications and provides various lines of location based services for transport and mobility applications, oriented to different market sectors:

- Fleet Management, Localisation and Tracking
- Electronic Fee Collection and access control
- "Special Traffic" classes management (such as Heavy Good Vehicles, Dangerous Good Vehicles, Emergency Service Fleet, Mobile Workforces)
- Traffic Flow monitoring and data delivery
- Information Service
- Emergency Assistance
- Safety & Security
- Multimodal Freight Transport and Supply Chain Management.

The Telespazio Service Centre is ready for the use of EGNOS towards Galileo. Moreover, thanks to its flexible, standards and open architecture, it is exploitable towards the integration of new contents for value added services, and for allowing user access through different technologies.

References:

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Thetis

The Company

Thetis (www.thetis.it) is an engineering and consultancy company providing integrated services in the fields of environmental, civil and transportation engineering. The Company operates as system integrator in the development of projects, services and innovative technological applications in three business areas:

- **Intelligent Transport Systems (ITS)**

Planning and Fleet management systems for public transport, freight transport and logistics applications; traffic and mobility management and control systems.

Maritime and inland navigation management systems (VTMIS, Vessel Traffic Management Information Services).

- **Environmental Studies and analyses**

System studies on sustainable development of the territory; remediation of polluted industrial areas; turnkey environmental monitoring systems and networks.

- **Civil and Territory engineering**

System studies on sustainable development of the territory; urban and territorial planning; territory information System (GIS); restoration and rehabilitation of historic buildings.

ITS Expertise & Solutions

Thetis is an Italian leading provider of innovative and environmentally compatible ITS solutions.

Member of UITP and ERTICO, Thetis is involved in telematics applications for the management of urban mobility, public transport service, garbage collection, freight transport and logistics, inland waterways and port traffic monitoring.

The Company gained a reputation in Italy as a prime contractor for the development of AVM (Automatic Vehicle Monitoring) and fleet management systems for bus transport in various Italian cities (Venice, Rome, Bologna, Parma, Perugia, Vicenza).

Thetis' system integration expertise includes also more complex ITS solution towards sustainable mobility management in cities. As leader of a Joint Venture of Italian Companies, Thetis has recently delivered an innovative, integrated environment/traffic management system for the City of Beijing, which includes also an AVM system for 2,200 Olympic buses of the Beijing Public Transport Company. The Company's experience includes projects for Maritime and Port Management such as VTMIS (Vessel Traffic Management and Information Systems) PCS (Port Community systems), PPU (Pilot Portable Units and RIS (river information systems) and is expanding its activities to Port Security and Marine Highways sectors.

Thetis is involved in European Union Framework Programmes and other International Cooperation projects, such as the Sino-Italian Cooperation Programme managed by The Italian Ministry of Environment and SEPA, the State Environmental Protection Agency of China.

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Trambus Engineering

The Company

Trambus SpA, born in 2000 by the scission of Azienda Speciale ATAC into Atac SpA and Trambus SpA, is the largest local public transport company of Italy. Trambus SpA manages, in Rome, over 2400 buses, about 250 bus lines and 8700 employees. Trambus Engineering, born in 2003 and entirely owned by Trambus, represents Trambus' ITS company.

ITS Expertise & Solutions

Trambus Engineering's mission is to create automotive technological innovations to be applied in public transportation systems. Trambus Engineering, controlled by Trambus R&D department, supports the fulfilment of the company's projects, industrialization and maintenance processes by developing, implementing and managing ITS systems.

The main ITS solutions proposed by Trambus Engineering are described below:

- Automatic Vehicle Management Systems and Fleet Management Systems applied directly to public transport systems.
- Video-surveillance and security systems: these systems permit on board security control for driver and passengers.
- Electronic bus stop poles: currently in Rome there are about 300 electronic totem poles. These poles interface directly with AVM systems and show to users real time information about the services delivery such as: time for the next bus arrival, vehicle's start time, mobility and tourism related information.
- Tramways application for safety enhancement: "uomo attivo" or "active man control" is a Trambus patented system which has contributed to the on board safety improvement by monitoring the drivers' activity and by blocking trains whenever a driver's disease or illness is detected.

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Trieste Trasporti

The Company

Trieste Trasporti SpA is the public transport operator in the city of Trieste, in the North East of Italy, near the border of the Republic of Slovenia. The scenario of the company is characterized by a liberalized market and by the presence of public and private competitors at European level. The city is characterised by high traffic flows due to its inhabitants but also due to people coming from Slovenia or going abroad: the pollution levels and the travel time on the road network are high. The Company's objectives are to guarantee a modern public transport to improve transit accessibility and quality of service. Trieste Trasporti SpA manages a fleet of 270 busses and about 840 employees: the urban transit network in Trieste is based on 57 routes. Trieste Trasporti is managed by Trieste local municipality and the SAB/ARRIVA Group.

ITS Expertise & Solutions

In Trieste Trasporti, information technology, data communications and ITS are important tools to pursue management objectives of effectiveness and efficacy. The experience with ITS started in 1996 with a project, in cooperation with University of Trieste, for developing a vehicle and crew scheduling software and an AVL system.

Nowadays, all the operations activities are managed by the TSpm (Transport Scheduling planning and management) system, a multi-level ERP system conceived and realised with object technology, characterised by the separation of data level, business rules and presentation level. The system is totally coherent with the European standard Trasmodel (ENV 12896), developed on a physical platform Oracle©.

References:

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The Company

With a turnover of around 250 € millions in 2005 and more than 700 employees TSF S.p.A. is the Italian leader in the development and management of ICT services for the Transport and Logistics sector as well as the ICT Outsourcer of FS Group (Italian National Railway). Customers include important companies in the Public and Private Transport sector, Airports (Rome and Milan) and Regulatory Authorities such as the Ministry of Infrastructure and Transport.

TSF supply supports all ICT requirements and core processes of operators in the Transport sector including: company governance, production resources planning (timetables, rolling stocks, crews), fleet maintenance and monitoring, traffic control, ticket and fare collection systems, multi-channel Public Information Systems, localization services, CRM solutions, Decision Support Systems. All solutions are typically delivered within large and complex systems integration projects with several business partners.

TSF is a Joint Venture between the Finsiel Group (69%) and the FS Group (39%). Through Finsiel, TSF is part of the "AlmavivA – The Italian Innovation Company" Group, the largest ICT service provider of Italy.

ITS Expertise & Solutions

TSF is internationally acknowledged within the Travel & Transportation field for its innovative type of solutions. Such solutions include a range of information services to moving operators (on trains and buses) and travellers in general, through the use of navigation and localization services, including GNSS (GPS, EGNOS and GALILEO signal).

TSF operates in the ITS sector with specialized partners, both at the technology and business level while maintaining connections with the academic and research world.

TSF has also experimented / tested and developed new services for transport personnel and travellers using innovative technologies such as contact and contact less smart- cards.

Since the essence of the transport activity is the continuous movement (local, regional, national, international) of workers, passengers and assets, TSF has developed a strong competence in the integration of all current available mobile technologies from satellite, UMTS, GPRS to WiFi, as well as all related capabilities to manage and control such ICT infrastructure "in motion". In particular, TSF has developed a traffic control system for Rail Infrastructure Managers, providing real time access to comprehensive, reliable traffic data in order to support: traffic management needs, automatic feeding of information for the public, toll and billing data.

References:

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Local Authorities

Milano



Milan Municipality – Transport Department

The Institution

Milan is located in the north of Italy, in the middle of Pianura Padana and it is the main town of Lombardia region. It has 1.200.000 inhabitants, thus being the second largest town in Italy after Rome, and the largest in northern Italy.

Milan's outskirts are densely populated too; the whole Milan Province has a population of approximately 3.800.000 people. Milan is surrounded by tangential routes and motorways that are intensively used.

ITS Expertise & Solutions

In close cooperation with the Regional government of Lombardia the metropolitan area of Milan has included the integrated management of E-calls as one of the main priorities in the current plan for investment. The current activities include a complete city-wide installation of ITS applications ranging from traffic light control, bus and emergency vehicles priority, public fleet management and E-call services in a fully integrated environment.

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Rimini Municipality–Transport Department

The Institution

Rimini is one of the cities of Emilia Romagna Region, which is situated in the North-East area of Italy. It has about 140.000 people, but since it is an attractive touristic centre, in the summer time, it can reach about 500.000 people. Therefore, as concern the Mobility aspects, the Transport Department of Rimini has to manage two different scenarios: the extraordinary mobility starting from May to September and the ordinary mobility in the rest of the year.

ITS Expertise & Solution

Starting from the 2007, the Transport Department of Rimini Municipality is working to implement a Mobility Plan for the city. The purpose of this plan is to improve the quality of urban mobility and to raise road security. In particular, the Municipality of Rimini is dealing with the use of ITS solutions, the issues related to urban freight distribution and the problems related to shortness of tunnels dislocated in the city with the aim to avoid the approaching of heavy trucks and buses, which are higher than tunnel limit, to those tunnels. In addition, it is evaluating the extension of traffic limited zone.

References:

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EGNOS and Galileo for Regulated Tracking & Tracing services



MENTORE (iMplemENTation of GNSS tracking & tracing Technologies FOR Eu regulated domains)

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Key feature is the provision of services, based on guaranteed positioning and exploiting the value of the EGNOS integrity for the professional transport markets.

MENTORE supports the Commission's "**GREEN PAPER on Satellite Navigation Applications**", for the use of EGNOS as forerunner of Galileo.



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Octo Telematics

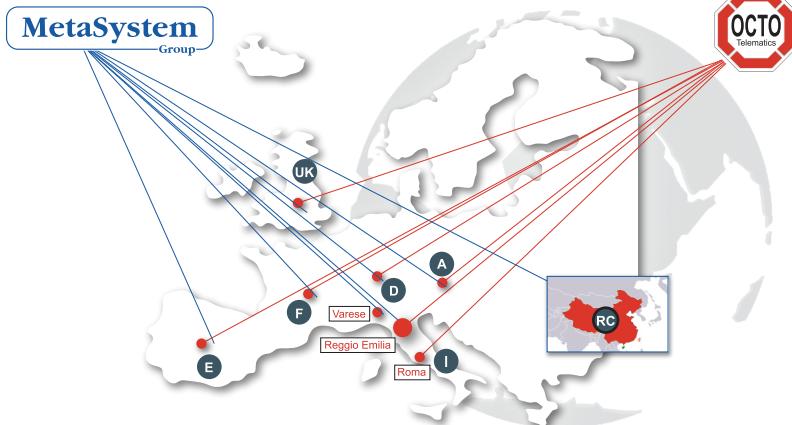
Telematics Systems and Services



The Company

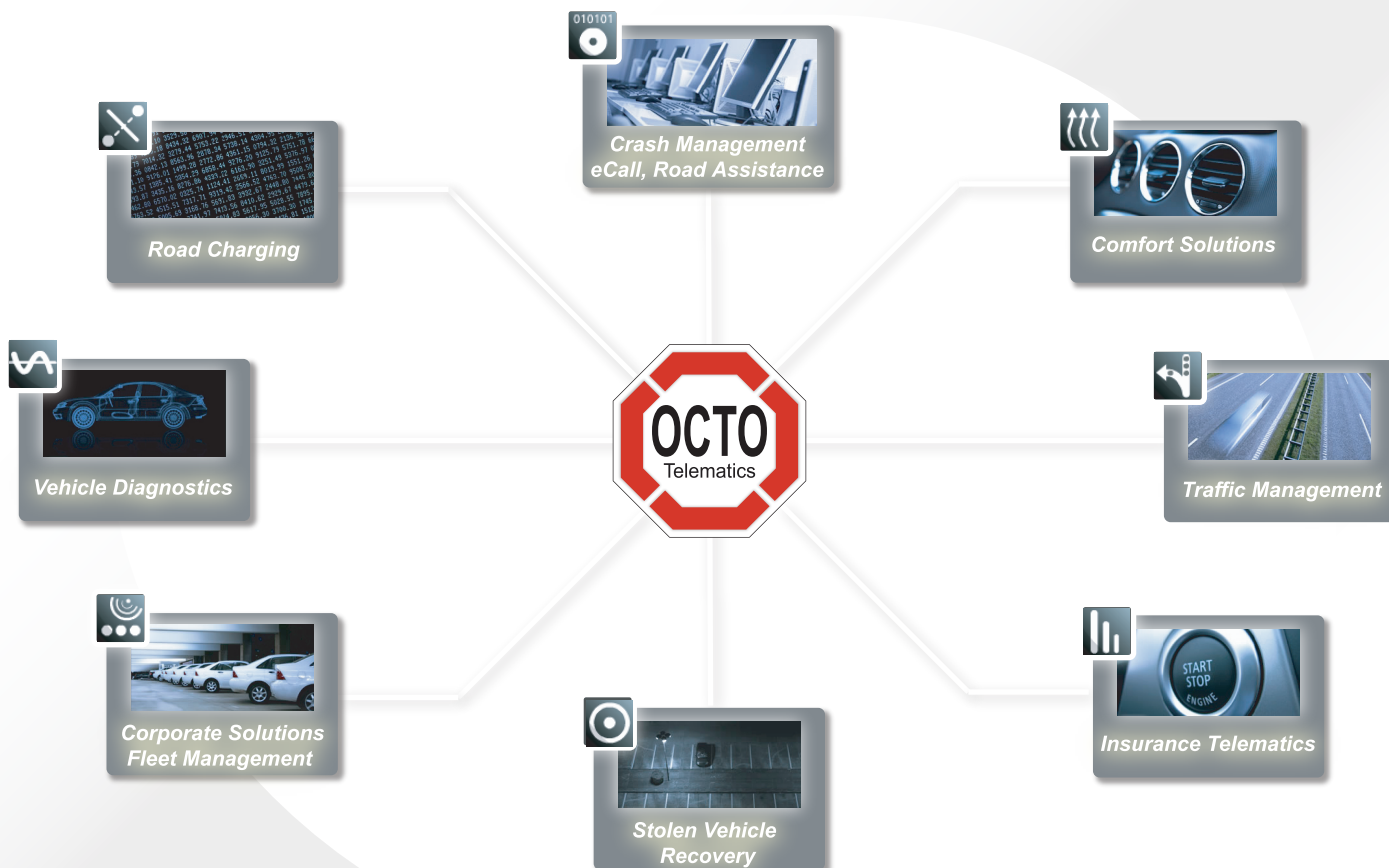
Octo Telematics srl is a **MetaSystem Group** company specialising in the provision of telematics services and systems, mainly for the insurance and automotive market. Founded in Rome in 2002, Octo Telematics can now boast over 650,000 subscribers to its own services, with subsidiaries in all major European countries and partners all over the world. Bearing the largest telematics fleet in Europe for the number of active clients and a database of the most complete figures and statistics globally, Octo Telematics represents a best practices scenario within the panorama of vehicle telematics.

Octo Telematics is the forerunner and undisputed global leader in the research, development and management of cutting-edge telematics applications for auto insurance. It offers customers the benefit of its valuable competence and multidisciplinary teams of experts in automotive devices, software development, marketing and services platforms, in order to offer increasingly competitive and innovative turnkey solutions.



www.octotelematics.com.net.it

The Services



MIZAR Automazione specialises in the design, development and implementation of ITS applications for traffic control, transport management and mobility information services. In three decades of experience in the field of transport telematic, MIZAR has developed an impressive range of high quality products.

Keep it flowing



Keep it green

Similar success has been achieved by the products and services for fleet management, FLASH NET and Fleetrunner, distinguished by their innovative content and technological excellence.



International recognition has been gained by the UTOPIA traffic control system, now installed in numerous cities across Europe and outside.

For the smoothest fleet operation



in town

MIZAR Automazione has just signed an agreement for the exclusive distribution of UTOPIA and FLASH NET in the USA and in Canada with McCain Inc, one of the North America's largest providers and suppliers of traffic signal equipment, traffic management systems, signalized control software and changeable message signs.

Since May 2005 **SWARCO EUROPE** has been a shareholder in MIZAR Automazione. This has opened new market perspectives and allows SWARCO Traffic Management to promote the leading-edge MIZAR's ITS applications.

Mizar Automazione has its headquarters in Turin and offices in Verona, Rome, Naples and Goteborg (Sweden).

Mizar Automazione S.p.A.

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