



Trascom

TRaveller Assistance for COmbined Mobility

TRASCOM (2002 - 2004) is funded
by the European Commission
under the IST Program

The overall objective of the **TRASCOM** project is to apply mobile technologies to the development and the validation of a prototype of a new multi and intermode transport software platform providing a set of integrated services in order to reduce the traffic congestion in urban areas and to meet specific transportation needs of people living in very low dense or in cross border areas.

The set of integrated services will consist of trip information, trip selection and optimisation, booking, purchase, confirmation, localisation, access, real time assistance, payment, control, service and fleet management for different modes of transport by car (individual car, car renting, car sharing), bicycle, bus, train and aeroplane.

The project will apply the advanced mobile technologies available in 2003.



Description

at a technical level

The TRASCOM Project will

- **Develop and test new and integrated services** - Using the most advanced form of mobile technologies (mobile phone, PDA, GPRS, UMTS, Bluetooth, SWAP, Ethernet wireless,...) in order to meet traveller and transport operators expectations in terms of mobility and combination of all modes of transport in a regional context
- **Develop and test a universal, generic, open and scalable architecture** - For a regional, multi and intermode transport platform with mobile access
- **Promote a standard for data exchange** - Between the information systems of transport operators

To achieve these technical results, the project will define

- **Requirements for the services to be implemented in the platform** - Requirements based on an analysis of scenarios applicable to journeys carried out within an intermode context of transport
- **New applications** - Such as mobile electronic payments, real time assistance to traveller and enlarged intermodality
- **Software specifications** - To implement the requirements
- **The specifications** - That will cover the cooperative architecture of the platform and its services integration server

at a telecoms level

The project will experiment advanced mobile devices and new telecom mobile protocols (GPRS, UMTS, Bluetooth, SWAP)

- **Field test demonstrations** - To allow the validation and the exploitation of the platform and its services on 3 sites located in the urban and cross border region of South Alsace, Belfort and Jura in France, in the urban and cross border region of Liege in Belgium and in the rural and low dense Region of Abbeville in the Somme Department in France
- **Analysis of business, legal, ethical and user behaviour and acceptance models** - To define socio-economic conditions for the marketing of the new platform and its associated services
- **Contribution to the standardisation in the domains of 2.5G and 3G mobile communication** - As a side effect at the level of the integration of functionalities in mobile devices and their human interfaces and at the level of interoperability with other devices.

Contribution to standardisation in the semantic of passengers transportation data exchange between the information systems of transport operators in regional areas.



Expected Results

- A prototype of the multi and intermode traveller transport software platform
- An evaluation of the services and news applications provided by the platform against the requirements (travel services, electronic payment solutions)
- A technical evaluation of the platform and its telecom environment against their specifications: architecture, integration server, telecom protocols, genericity, scalability, performances
- An evaluation of the usability of the interface provided by the mobile devices.
- An evaluation of the "Web accessibility" of the portal
- The results from the three demonstration sites
The content of business, legal, ethical and user behaviour models characterizing the socio-economic conditions for the deployment of the platform
- Recommendations for the roll out of the platform
- Proposals for standardization
- Exploitation plans by partners



Partners

- BEVAC Consulting Engineers - Belgium - is the Coordinator of the TRASCOM project

Principal Contractors

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| ▪ Agence Wallonne des Télécommunications (AWT) | Belgium |
| ▪ REGIENOV - Renault | France |
| ▪ Société Régionale Wallonne de Transport (SRWT - TEC) | Belgium |
| ▪ Network Management Group Télécoms (NMG) | France |
| ▪ Mentz Informatique | France |
| ▪ Bureau VAN DIJK - Ingénieurs Conseil en Gestion | Belgium |
| ▪ EZOS | Belgium |
| ▪ ERICSSON Eurolab Netherlands B.V. | Netherlands |

Assistant Contractors

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| ▪ Conseil Général du Territoire de Belfort | France |
| ▪ Université de Technologie de Belfort-Montbéliard | France |
| ▪ Integral Media | France |
| ▪ Mentz Datenverarbeitung GmbH | Germany |
| ▪ Micro Research | Belgium |
| ▪ SawpTec, Cherbuin et Cie | Switzerland |

Project Coordinator

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