



CORVETTE 2005 – Projekt FIMSAA

FREIGHT INFORMATION AND MANAGEMENT SYSTEM FOR THE ALPINE AREA

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FREIGHT INFORMATION AND MANAGEMENT SYSTEM FOR THE ALPINE AREA

Region: Bavaria

- Fraunhofer IML
- Logistik-Kompetenz-Zentrum
- FH Rosenheim
- Protime
- ROSPED
- Europäische Union



Fachhochschule Rosenheim
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Background

Lack of information

The transports of heavy and dangerous goods in the alpine area are suffering from a multitude of national, and therefore different laws and regulations. The relevant information concerning the transports and their course are available at different sources with a high level of granularity. Based on the low level of co-ordination between these sources delays and high costs are generated. Important information is not readily available in case of emergencies, leading to critical situations in the transport of dangerous goods.

Achievements

Co-ordinated reduction in traffic

The FIMSAA (Freight Information and Management System for Alpine Area) project started in 2003 based on the work of the Logistik-Kompetenz-Zentrum (LKZ) which has been involved within CORVETTE since several years setting the focus on cross border aspects within the study activities. The main subject is the management of heavy goods transports crossing the Alps with special attention paid to super-heavy and dangerous goods. After a highly detailed analysis of the existing procedures and processes exemplary demonstrators were installed. Currently two centres, one for super-heavy and one for dangerous goods transports, are being planned and developed. The focus is on the design and planning of a pre- and on-trip traffic management system for the above-mentioned special cases including a cross-border trans-Alpine route planning system. The work completed so far has generated co-operation with other EC projects and an in-depth exchange of experiences.

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Region: Bayern

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Vorgeschichte

Informationsmangel

Die Transporte im Gefahrgutbereich und Schwertransporte sind im alpenquerenden Verkehr geprägt von vielen nationalen und damit unterschiedlichen Gesetzen und Vorgaben. Die Informationen für Transporte und dem Transportverlauf liegen in hoher Detaillierung an verschiedensten Stellen vor. Wegen mangelnder Koordination dieser Informationen entstehen Verspätungen und hohe Kosten. In Notfällen sind die wichtigen Informationen kurzfristig nicht verfügbar. Dies führt vor allem im sensiblen Gefahrgutbereich zu kritischen Situationen.

Ergebnisse

Reduzierung des Verkehrs mit System

Das FIMSAA - Projekt (FIMSAA – Freight Information and Management System for Alpine Area) startete im Jahr 2003 und basiert auf Arbeiten des Logistik-Kompetenz-Zentrums (LKZ), das bei CORVETTE bereits seit einigen Jahren mitwirkt. In den Studien konzentriert man sich hauptsächlich auf internationale grenzüberschreitende Gesichtspunkte. Es wird das Management von alpenquerenden Gütertransporten, insbesondere der Schwer- und Gefahrguttransporte durchleuchtet. Nach einer sehr detaillierten Aufnahme der Abläufe und Prozesse wurden durch Einbindung aller Beteiligten in Workshops zunächst Vereinfachungen und wesentliche Verbesserungen in den Prozessen erreicht. Auf Basis der vereinfachten Prozesse wurden jetzt bereits exemplarische Demonstrationssysteme aufgebaut. Aktuell wird gerade im Projekt jeweils eine Gefahrgut- und Schwertransport-Zentrale geplant und entwickelt. Im Mittelpunkt steht dabei die Konzeption und Planung eines alpenübergreifenden Pre -Trip / On -Trip Verkehrsmanagementsystems. Dieses System wird noch durch ein alpenübergreifendes Routingsystem für Gefahrgut und Schwertransport abgerundet. Inzwischen haben sich auch eine positive Zusammenarbeit mit anderen EU-Projekten und ein reger Erfahrungsaustausch ergeben.



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**LOGISTIK
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FREIGHT INFORMATION AND MANAGEMENT SYSTEM FOR THE ALPINE AREA





CORVETTE 2005 – Project FIMSAA
FREIGHT INFORMATION AND MANAGEMENT SYSTEM FOR THE ALPINE AREA





Co-ordination and validation of the deployment of advanced transport telematic systems in the alpine area

Background

In summer 1996, CORVETTE has started the coordination of the work for the implementation and operation of ITS systems with the aim to ensure the continuity and the quality of the services offered in the Eastern Alpine Area of the TERN (Austria, Bavaria, North-East of Italy, Switzerland).

The understanding of the CORVETTE added value during its different phases to the road safety improvement cannot leave out of consideration the critical characteristics of the project network. The CORVETTE network is situated at the centre of Europe in the alpine area and includes Austria, Germany (Bavarian region), Italy (North-East regions) and Switzerland.

It covers the mountainous region that serves as a central point for transportation within Europe characterised by

adverse weather conditions in the winter, numerous passes (e.g. the Brenner between Austria and Italy)

tunnels (e.g., the Tauern tunnel in Austria)

a limited opportunities for re-routing

seasonal traffic peaks such as north- and southbound traffic flows in the Alpine area during the summer as well as winter holiday traffic

considerable traffic on North–South and East – West transit routes passing through the CORVETTE area as portal to the heart of the Alpine region.

CORVETTE is a long-term process begun with implementation studies and continued with increasing emphasis on the infrastructure investments during the following phases.



Goals

The CORVETTE objectives are to stimulate a harmonised and synchronised deployment of ITS systems and services on the Trans-European Road Network (TERN) in order to increase traffic flow and road safety as well as to contribute to convergence between national/regional planning and the overall implementation of the Information Society in the road transport field in Europe.

Domains

The CORVETTE project is active in the following fields of work (Domains):

DOMAIN 1 – ROAD MONITORING INFRASTRUCTURES

Implementation of high quality monitoring infrastructure for reliable ITS services

DOMAIN 2 – EUROPEAN NETWORK OF TRAFFIC CENTRES

Establishment of a European network of traffic centres and cross border information exchange systems

DOMAIN 3 – TRAFFIC MANAGEMENT AND CONTROL

Removal of bottlenecks and easing of traffic flows through traffic management and control measures

Development of easy and efficient electronic fee collection systems

Promotion of road safety and efficiency through incident and emergency handling

DOMAIN 4 – TRAVELLER INFORMATION SERVICES

Deployment and easy access to high quality traveller information services, including the interface with other modes of transport > Enhancement of safety and efficiency of freight transport

DOMAIN 8 – HORIZONTAL ISSUES

Evaluation and improvement of the quality of traveller information services (TIS) in the CORVETTE area through a continuous monitoring process

DOMAIN 9 – PROJECT MANAGEMENT

Management of the project and dissemination of results



Results

The CORVETTE project is established under the TEMPO sub-programme which allows the project to cover the six years from 2001–2006 with frequent specifications of the concrete steps leading to an improved coherence of the annual project phases. The CORVETTE TEMPO project was launched in April 2001 and is concentrated on the operation of new ITS systems and on the cross-border international activities. The project made good progress and achieved, among others, the following:

Implementation of road monitoring infrastructures such as radar sensors, detective loops, weather stations, radars or cameras in order to enlarge the amount of traffic data available and improve their quality.

Establishment of international data exchange connections for traffic data across the project regions and beyond.

Strengthening of connectivity and transparency measures between the different cross-border stakeholders in the CORVETTE area to validate, refine, and implement trans-Alpine Traffic Management Plans at the organisational and technical levels.

Definition of operational strategies for the connection of urban and motorway networks.

Implementation of tactical control measures for traffic information and control as well as new Line Control Systems.

Safety impact analysis and implementation of safety measures including traffic monitoring measures in road tunnels.

New real time traffic information services of international dimension in through multiple channels (e.g. Internet, WAP, SMS) and improvement of the existing information services.

Extension of the variable message sign systems in the project area.

Implementation of new ITS systems to improve freight and fleet management and the incident and emergency handling.

Study of promising areas for the reduction of traffic disturbances preceding implementation initiatives.

The CORVETTE project is, through the TEMPO subprogramme, now also integrated into international long-term activities such as the Long Distance Corridors which will form an important basis for the decisions related to traffic management in the coming years.