





AlpCheck Project an overview

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Alpcheck Project main features

www.alpcheck.eu

Total budget4,7 mln € (2,37 mln € FESR)Project startJuly 2006Project endJune 2008

10 Work Packages 13 Project Partners 4 Member States of Alpine Space involved

(Austria, Germany, Italy and Slovenia)

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Castello di Marengo, 29th May 2008







Alpcheck Consortium

- > Veneto Region Regional Logistics Unit (Leader Partner)
- Regione Autonoma Valle d'Aosta Assessorato Agricoltura, Risorse Naturali e Protezione Civile - Direzione Protezione Civile - Servizio Interventi Operativi
- Carinthia Regional Government Administration Department 7 Common Law and Infrastructure
- > EURAC European Academy Bolzano
- > University of Maribor, Faculty of Civil Engineering
- > Autorità Portuale di Venezia
- > Fondazione SLALA Sistema Logistico del Nord Ovest d'Italia
- > **IREALP** Institute for Research on Ecology and Economy of the Alpine area *Sondrio*
- > ICCR Interdisciplinary Centre for Comparative Research in the Social Sciences Vienna
- > TCI Röhling Transport Consulting International Denzlingen
- > OMEGA consult projektni management, d.o.o. Ljubljana
- > Paradigma Unternemensberatung Gmbh Vienna
- > Centro Studi sui Sistemi di Trasporto Turin

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Alpcheck Objectives

- ✓ Initiating a process that should lead to the construction of an Information System for transport through Alpine Area
- ✓ Identifying, testing and evaluating different technologies for monitoring various typologies of road traffic

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Alpcheck Work Packages

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- WP1 Transnational Project Preparation Activities
- WP2 Transnational Project Management
- WP3 Project Management
- WP4 Information and Publicity Activities
- WP5 State of the Art and User Requirements
- WP6 Informative system: design and implementation
- WP7 Traffic share modelisation and evaluation of environmental critical points
- WP8 Implementation of the pilot projects
- WP9 Demostration and Evaluation
- WP10 Analysis of the results

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"Technical" Work Packages *main contents*

WP5 - State of the Art and User Requirements

Definition of the information system requirements by a survey to road network operators and an overview on European Projects about mobility monitoring in Alpine Space

WP6 - Information System: design and implementation

Implementation of a DataWareHouse containing traffic flow data from different existing sources and from AlpCheck Pilot Projects. Implementation of procedures for data homogenisation to make them comparable. To easier the access to the datawarehouse informations, an interface will be developed using Google Earth capabilities.

<u>WP7 - Traffic share modelisation and evaluation of environmental critical</u> points

Pollution emission estimations for road traffic along some corridors crossing the alps and in environmentally weak areas in Alpine Space. Identification of more effective policies to mitigate environmental impacts of road traffic.

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"Technical" Work Packages *main contents*

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WP8 - Implementation of the Pilot Projects

Implementation of 6 pilot projects finalised to test some traffic monitoring technologies and share data with the DataWareHouse

- \checkmark Weight in Motion
- ✓ Route tracing via GPS/GPRS
- ✓ Traffic flows data trasmission in Real Time
- ✓ Loading/unloading operations monitoring in Real Time
- ✓ Dangerous goods transport monitoring via OCR
- ✓ Testing radio-based monitoring technologies in particular weather and traffic conditions

WP9 - Demostration and Evaluation

Assessment of project methodologies and activities through standard procedures definition

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AlpCheck Information System

Development of the Information System was organized into succeeding phases:

- ✓ <u>Phase 1</u>: evaluation and acquisition of the Data Warehouse platform -SuperStar
- ✓ <u>Phase 2</u>: collection and publication of data in the format made available by the various sources
- ✓ <u>Phase 3</u>: homogenization of the data collected, missing data estimation and coherence check
- ✓ <u>Phase 4</u>: development of web interface

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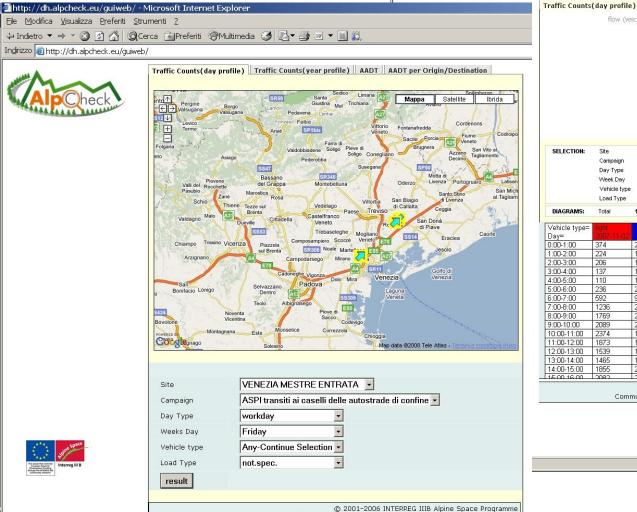


Information System: Web interface

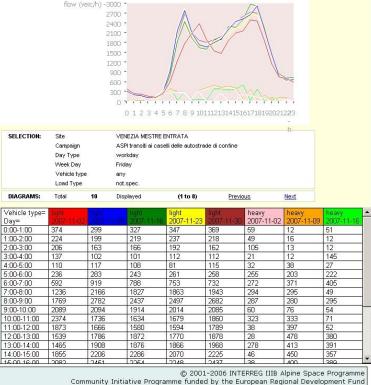
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Community Initiative Programme funded by the European Regional Development Fund



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Information System: Data Warehouse

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Alpcheck is the first step toward an shared Infomobility System in the Alpine Area

The "*road map*" is in three steps:

- ✓ <u>First step</u>: implementing a standard Data Warehouse that collects and stores data from different sources and implement procedures to homogenise data as well
- ✓ <u>Intermediate step</u>: building a Decision Support System with advanced functionalities for the analysis of transport systems (e.g. four stages model)
- ✓ <u>Final step</u>: creating an infomobility system through the dynamic acquisition of traffic and modelling of real time data

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Thank you very much

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