



REGIONE DEL VENETO



AlpCheck Project an overview

Alpcheck Project main features

www.alpcheck.eu

Total budget 4,7 mln € (2,37 mln € FESR)

Project start July 2006

Project end June 2008

10 Work Packages

13 Project Partners

4 Member States of Alpine Space involved

(Austria, Germany, Italy and Slovenia)



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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 Unternehmensberatung GmbH** - *Vienna*
- **Centro Studi sui Sistemi di Trasporto** - *Turin*

AlpCheck Conference

Castello di Marengo, 29th May 2008

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

Alpcheck Work Packages

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.

WP7 - Traffic share modelisation and evaluation of environmental critical 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

WP8 - Implementation of the Pilot Projects

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

- ✓ Weight in Motion
- ✓ Route tracing via GPS/GPRS
- ✓ Traffic flows data transmission 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

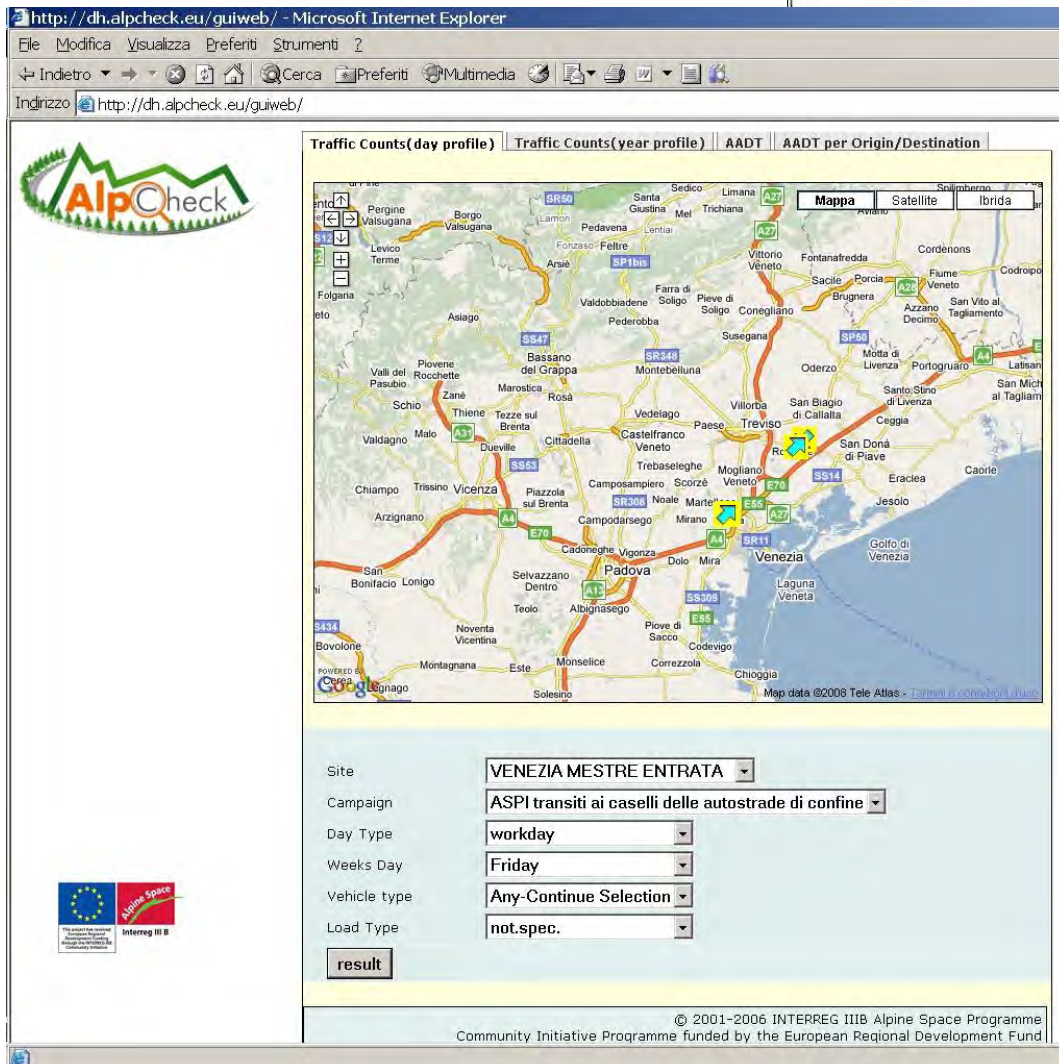
AlpCheck Information System

Development of the Information System was organized into succeeding phases:

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



Information System: Web interface

http://dh.alpcheck.eu/guiweb/ - Microsoft Internet Explorer
File Modifica Visualizza Preferiti Strumenti ?
Indirizzo <http://dh.alpcheck.eu/guiweb/>

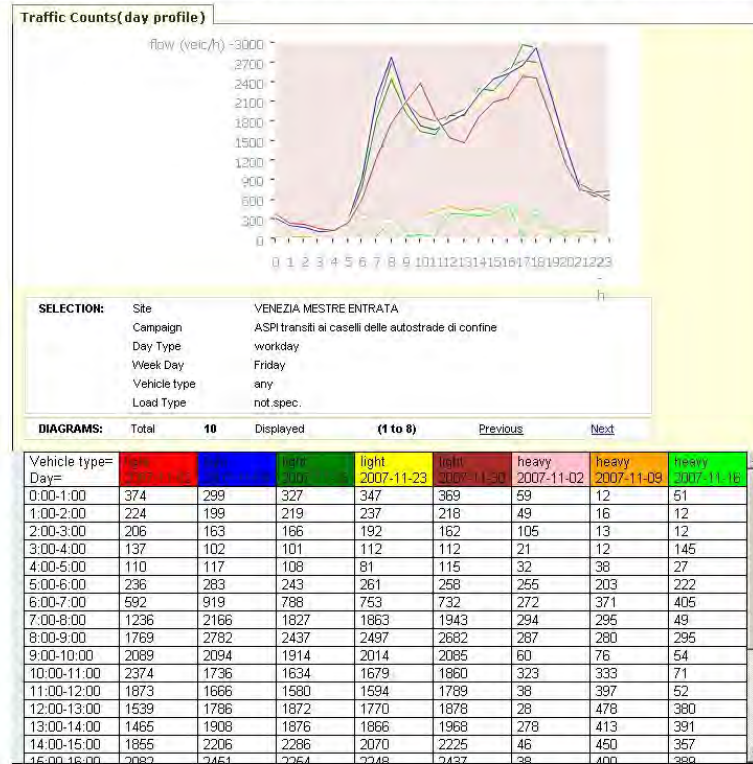
Traffic Counts(day profile) | Traffic Counts(year profile) | AADT | AADT per Origin/Destination

Mapa | Satellite | Ibrida

Site: **VENEZIA MESTRE ENTRATA**
 Campaign: **ASPI transiti ai caselli delle autostrade di confine**
 Day Type: **workday**
 Week Day: **Friday**
 Vehicle type: **Any-Continue Selection**
 Load Type: **not.spec.**

result

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Community Initiative Programme funded by the European Regional Development Fund



Information System: Data Warehouse

http://85.18.31.171:8080/superweb/loadDatabase.do?db=vehicle - Microsoft Internet Explorer

File Modifica Visualizza Preferiti Strumenti ?

Indirizzo http://85.18.31.171:8080/superweb/loadDatabase.do?db=vehicle

SuperWEB by Space-Time Research

Save As Languages Logout Help Admin Tools

TableVIEW | CSVVIEW | PIVVIEW | CONTINGENCYVIEW | RECORDVIEW | EXCELVIEW

Counting: VEHICLE
Fields: Point of Departure Road by Point of Arrival Road
Layers: Filters:

Point of Arrival Road	Germany	Baden-Württemberg	Bayern	Berlin	Brandenburg	Bremen	Hamburg	Hessen	Mecklenburg-Vorpommern	Niedersachsen	Nordrhein-WESTFALEN	Rheinland-Pfalz	Saarland	Sachsen	Sachsen-Anhalt	Schleswig-Holstein	Thüringen	Extra-Regio	Unknown	Total
Point of Departure Road																				
Veneto	1	72	177	22	7	22	34	139	2	44	155	24	1	42	31	5	18	-	-	796
Verona	1	176	308	46	7	14	45	79	5	35	151	47	10	38	11	5	8	-	-	986
Vicenza	-	80	84	9	-	4	10	25	-	21	60	15	1	7	4	5	2	-	-	327
Belluno	-	3	11	-	-	-	-	2	-	-	8	-	-	3	-	-	1	-	-	28
Treviso	-	40	63	7	1	1	11	13	1	11	38	2	-	5	4	2	-	-	-	199
Venezia	-	58	76	7	1	5	11	11	1	10	26	8	4	3	5	2	2	-	-	230
Padova	1	58	70	8	2	6	10	16	1	10	59	15	3	15	4	-	1	-	-	279
Rovigo	-	8	4	2	-	-	1	1	-	2	7	4	-	-	1	2	-	-	-	32
Total	3	495	793	101	18	52	122	286	10	133	504	115	19	113	60	21	32	-	-	2,877

Operazione completata

Internet

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

The “road map” is in three steps:

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



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Thank you very much

www.alpcheck.eu

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