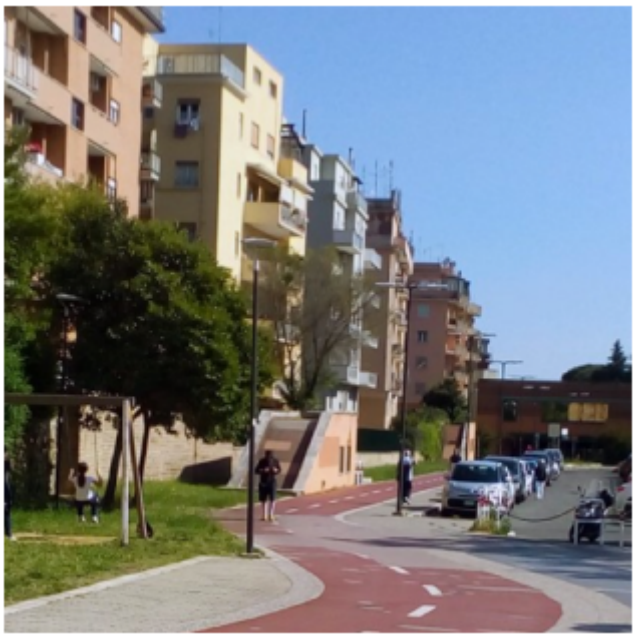
Project Alpine Mobility Check

step 2

integrated mobility | sustainable mobility

PROJECT DESCRIPTION



The project had the aim of supporting international, national and regional policy-makers in the creation of intelligent and concrete tools to design and implement integrated road transport management and planning policies able to meet the requirements of competitiveness and sustainability in the Alpine regions.

AlpCheck2 represented the second phase of a project idea funded under the Alpine Space Program 2000-2006, created to address a strategic need expressed at various institutional levels: obtaining accurate information on the traffic flows present on the Alpine road networks to be used as a basis for more efficient and effective transport policies.

OBJECTIVES

AlpCheck2 emerged as an operating platform that has embraced a wide range of outputs: models, methodologies, studies, reports, investments in technological devices and software licenses as well as a decision support system and an online freight stock market. All this can be traced back to three different strands of the project, linked together by the common theme of innovation:

- The creation of a **Transport Decision Support System** (TDSS) for the management and planning of the main road network of the entire Alpine area;
- The adoption of an approach oriented towards a concept of sustainable development in the Alpine area;
- Provide the Alpine Community with innovative technologies, methodologies and solutions.

PROJECT PHASES

Most of the project activities has converged in the development of the AlpCheck2 Transport Decision Support System (TDSS), the most significant output of the project. Much of the work has been focused on its two integrated components (transport planning and traffic management), the wide range of data available (including both simulation and real information data) and the most important factors that characterized its implementation, namely the transnational approach and attention to the qualitative aspects of its results.

The structure underlying the transport modeling of the TDSS was focused on the construction of a road transport model including a generation/ distribution model at NUTS3 level (with a sub-component dedicated to the transport of dangerous goods) and a traffic assignment module based on GIS technology for the representation of the Alpine road network to a wider spatial detail than

just the representation of the main transnational corridors. This structure made it possible to analyze and evaluate the main Alpine road network in the situation at the time of the project, with reference to sixteen different scenarios.

Other important activities concerned the environmental assessments, in particular those that refer to the estimation of noise and air pollutants emissions, as well as to the economic quantification of their effects, in relation to the road network modeled within the developed TDSS and the investigated scenarios. Furthermore, the georeferencing methods used to model the Alpine road network have proven to be consistent with the approach followed in the **EasyWay** project, co-financed by the European Commission and included in the EasyWay Global Programme 2007-2020, aimed at the development of the European level Intelligent Transport Systems/ Services (ITS) for the use and optimization of the most innovative technologies applied to road transport, promotion of the interoperability of implemented systems and improvement of the existing infrastructures.

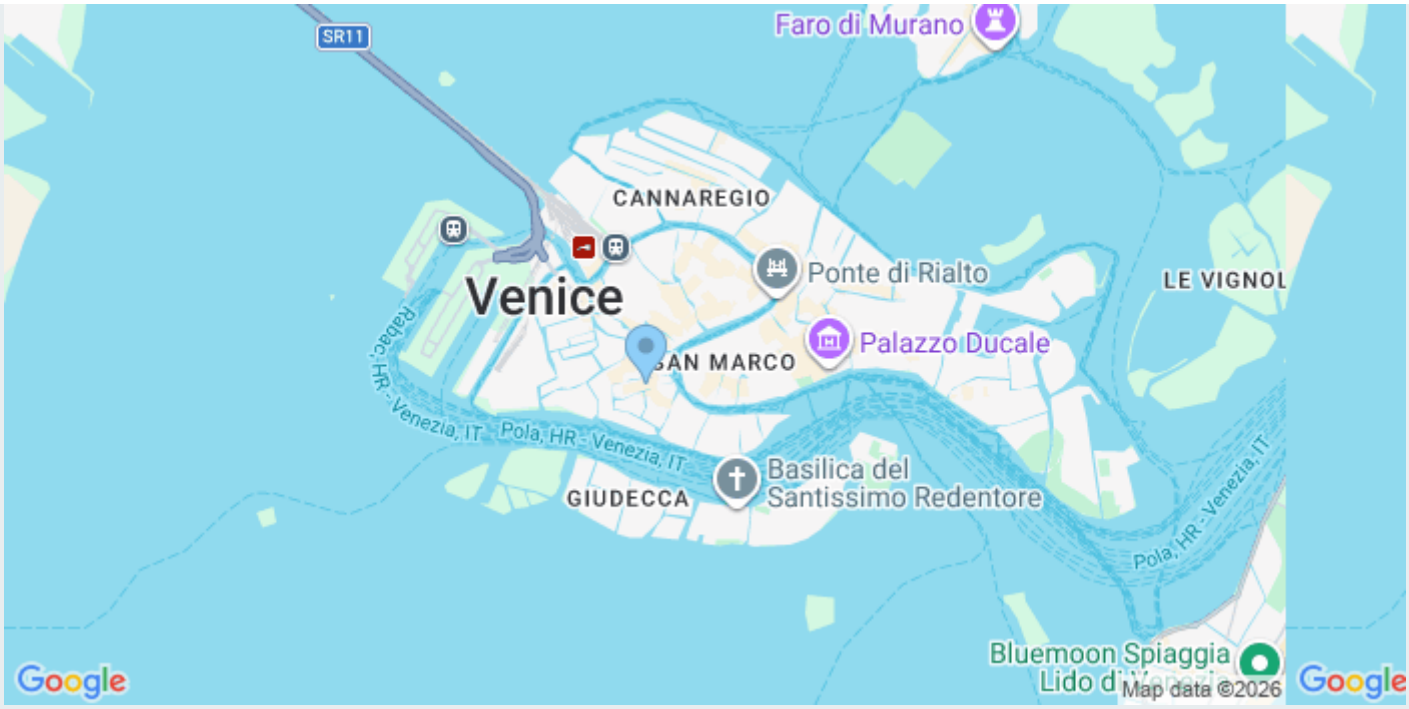
Finally, the last phase was dedicated to the implementation of pilot projects (including the Venice - Munich route), focusing on the testing of innovative technologies (for traffic monitoring), solutions (to improve transport efficiency) and methodologies (to improve the evaluation of modal split policies). These pilot projects provided concrete answers - potentially replicable on a transnational scale – to local problems, as they've begun to implement processes capable of making road transport more efficient and sustainable, favoring a greater rationalization of the concerned parties' choices with direct advantages in terms of increasing competitiveness and reducing congestion, fuel consumption as well as harmful emissions.

PROJECT RESULTS

The main project result consisted in the creation of an innovative traffic management and transport planning tool, new assessment methodologies and new technologies, which are presumed to contribute significantly to increase the competitiveness and quality of life of the Alpine territories.

Specifically, the AlpCheck 2 project has implemented:

- 3 Information systems: the **TDSS system** (in its two components dedicated to transport planning and traffic management along the Monaco-Venice Corridor) and the **ANNAtool platform** for an online freight stock market;
- 2 software / web applications: 1 web platform for the collection of road infrastructure data by 2020 and 1 for the differential correction of the GPS data;
- 10 models: 2 georeferenced road networks (the Anchor Net and the Core Network), 3 transport models (generation/ distribution model, its sub-component dedicated to the transport of dangerous goods and the traffic assignment model), 5 environmental models (air pollution, noise pollution, dispersion, ecological sensibility index and social costs);
- 17 scenarios developed: 3 for 2009 and 14 for 2020; 1 methodology for the evaluation of modal distribution policies (with 2 concrete applications);
- 4 external information systems integrated within AlpCheck2: the regional systems of Bavaria, Valle d'Aosta, Veneto and the French national system;
- 1 GNSS census in the Alpine area;
- 8 external institutions involved in the AlpCheck2 Trans-national Platform Panel (TPP) (Ministries, regional administrations, institutions, road traffic management agencies and private companies) from 6 countries of the Alpine area;
- 3 external institutions that have signed the strategic document establishing the cooperation framework with the AlpCheck2 project;
- 11 Projects with which AlpCheck2 has established contacts and developed cooperation in various ways.



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Acronym
AlpCheck 2

Number of reference
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Reference Programme
ALPINE SPACE PROGRAMME

Beneficiary Coordinator
Regione Veneto

Contacts
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EU contribution
2.391.948,00

Call Year
2008

Start Year
2009

End Year
2012

Beneficiary headquarters

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Region
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