

MUTIS - Multi Modal Traffic Information System

Applications: Location-Based Satcom Services



"The MUTIS project will reveal how far the LEO based communication services can push forward the development of the Danube river as an environmentally friendly way of transport."

Manfred Seitz, Managing Director, via donau



PRIME CONTRACTOR:

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PROJECT PARTNER:

FH Technikum Wien (Austria)

PROFILE:

The political and economic step-by-step integration of Eastern and South-Eastern European countries into the European Union will substantially increase the volume of freight traffic along the Danube corridor, which is one of the Europe's major East-West transport routes. A primary concern of transport policy in the European Union and other countries must therefore be to find measures coping with these traffic volumes in an environmentally sustainable and socially responsible way.

The strategic objective of via donau is to develop the Danube river as an environmentally friendly method of transport. This aim requires a mix of measures, above all the introduction of innovative telematics applications like a River Information Services (RIS). The MUTIS project evaluated the impact of new and conventional communication technologies for the implementation of River Information Services in the Danube corridor. The following project steps were carried out:

- Analysis of the potential of new, i.e. satellite based, and conventional (GSM/SMS) communication technologies for RIS in the Danube region
- Analysis of the possibilities to integrate traffic information from all transportation modes into a common intermodal database.

For this purpose, a vessel was equipped with the necessary devices to generate traffic data along the Danube waterway between Vienna and Constanta at the Black Sea. The position and other dynamic data were transmitted from the vessel via the satellite communication systems GLOBALSTAR, IRIDIUM and THURAYA as well as terrestrial GSM. Additionally, the availability of the communication systems along the Danube waterway was monitored. The collected data were analysed against the specific project aims. The project results will be used as a basis for further developments in the field of inland navigation and to offer intermodal traffic information services.