iv2splus INFONET

I2V, 1st Call (2007)

DVS Netz - Pilot

With the “DVS-Net“ (dynamic roadsafety management system) it is possible to generate
target-oriented roadsafety information according to dynamic traffic and road condition data and local characteristics. Within a pilot trial, the usage of the DVS-Net in the context of traffic management systems will be tested.

The feasibility study “DVS-Net” demonstrated that enhanced information for traffic participants or for the regulation of traffic management centrals through the connection of static and dynamic traffic and road data is possible. Data of roads are detected during RSI (Road Safety Inspection) – inspections which contain criteria like road condition, weather, traffic volume or accident data. Registered accidents and accident accumulation places are further basics. Only if dynamic traffic data like traffic volumes and speeds as well as weather condition data and road condition data are included, a targeted statement about securityrelevant
street sections is permitted. Therefore it’s possible to get current information about particular hazard levels.

The target of the offered study is to develop a suitable computation model and to apply a pilot trial to a section of the Austrian Motorway Network for which dynamic traffic data as well as weather condition data are available and furthermore a traffic control system is in use. The offered system includes a systematic inclusion of static and dynamic data; therefore it provides a new method for the local differentiation of traffic safety information. This traffic safety model will be tested within a pilot trial and compared to present control systems. Determined strategies for traffic control systems are based on complex statistic decision processes. Importance will be laid in the influence on the traffic safety model of designated analysis and inclusion of traffic behaviour of traffic participants through adequate feedback. Accompanying cost benefit analysis permit the estimation of the cost effectiveness and preparation of a business concept. The investigation will be carried out in coordination with the part of the ASFINAG which is located in the traffic management and information centre (VMIZ). Efficient and target-oriented information about crucial road sections for traffic management centres as well as for driverservices can be achieved with the “DVS-Net”.

Programme

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Project coordination

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