

## Development of road management system and design and procurement of pilot contracts for performance based management and maintenance of roads

In the beginning of 2009 the Bulgarian National Road Infrastructure Agency contracted Finnroad Ltd. (Finland), in cooperation with Roadscanners (Finland) and Ramboll (Denmark), for the implementation of a Road Management System (RMS) in Bulgaria. The assignment is part of the project for "Rehabilitation of Road Infrastructure" (4695-BUL), funded by the World Bank. The Transport Research Institute is a subcontractor of Finnroad for the project.

The main objective of the project is to assist the road administration in the strategic planning at all levels of road network management.

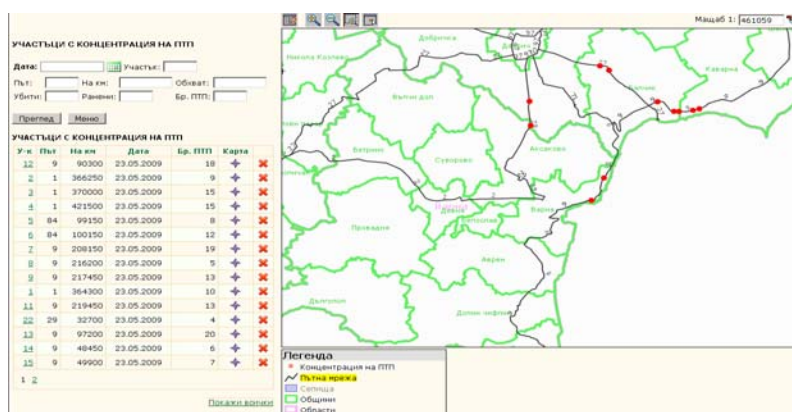
The RMS will consist of three major technical components:

- *Road database* – contains information about the properties and condition of the road surface, pavement condition data, geometry data, traffic and road accidents data, and data of the road furniture and their condition; it is used in maintenance planning.
- *Planning and budgeting tool* (HDM-4) – it composes short- and long-term maintenance

plans (budgeting of current maintenance, periodic maintenance and rehabilitation), defining of maintenance strategies, prioritization of activities, analysis and selection of scenarios;

- *Geographic Information System* – collecting, storing and displaying of geographically related information aiming at obtaining purposeful and useful information.

Another notable part of the assignment is the preparation of three pilot contracts for performance based maintenance of roads. These contracts will be used to facilitate the future transition from maintenance contracts base on measurement of quantities to performance based maintenance contracts.



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