Datasheet of the IKTA4/086 project

I. *Information and communications technology development for the improvement of traffic circumstances*

Project start: November 1, 2001, duration: 22 months.

Amount of support: KHUF 33 000, total project cost: KHUF 66 000.

Project leader: ***Pápay Zsolt Dr.***
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Project URL: <***http://kozlekedes.hu***>

II. Consortium members (number of members = **4**, the first member is the project co-ordinator)

no	*name*	*support*	*total cost*
1.	KÖZLEKEDÉS Consulting & Planning Ltd.	KHUF 16 500	KHUF 49 500
2.	Budapest University of Technology and Economics, Dept. of Highway and Railway Engineering	KHUF 5 500	KHUF 5 500
3.	Budapest University of Technology and Economics, Dept. of Control Engineering and Information Technology	KHUF 5 500	KHUF 5 500
4.	Budapest University of Technology and Economics, Dept. of Automobiles	KHUF 5 500	KHUF 5 500

III. Public presentations

No presentation is available.

IV. Goals of the project

Intelligent Transport Systems - equipped with the newest innovations of informatics - can bring a lot of new things into our day-by-day life. Using these systems the whole transportation system will be able to meet the challenges of the third millenary such as effectiveness, security, calculability, flexibility and availability in the field of road information service.

The main goal of this project is to demonstrate the traffic management, the traffic monitoring, the preliminary and/or on-the-way route planning and the navigation systems - under real-life conditions, in a certain sample-area of Budapest.

During the realisation of the project the first task is to inform the road users and operators online and offline, while the second will be the demonstration mentioned above, completed with the design of a dynamic route planner.

We are planning an online traffic survey in the sample-area based on closed-circuit video system and omission-monitoring system. With the help of the video traffic survey it is possible to get a lot more important data such as vehicle volume, etc. A local data processor will evaluate traffic and omission data, then evaluated data gets into a central database through a GSM/SMS communication network. Due to this wireless solution it won't be needed to use the expensive wired telephone network.

The data from the Internet will be available to the users through a display (of a cellular phone or an onboard communication unit). The significant advantage of this system versus the existing, diffuse local system-segments is that a driver gets only the significant and sufficient information to plan its route considering its location (instead of the whole jumble of information). After getting the certain pack of information the driver could modify the route of the vehicle in order to choose his/her optimal way.

The last task would be to develop of an interactive route-planning module. This would mean the continuous use of an algorithm that calculates the route that belongs to the minimum travel time (on

the main road network of Budapest). The software (working with the algorithm) is generating a minimum matrix from databases coming from the traffic surveying system and static databases containing roadwork data etc., which matrix will suggest the traveller the optimal route to reach his/her destination.

V. Project results (in case of finished projects)

The project is not finished.

VI. Data on consortium members (number of members = **4**)

1. ***KÖZLEKEDÉS Consulting & Planning Ltd.*** (co-ordinator)

   URL: <***http://www.kozlekedes.hu***>

   Support for the co-ordinator: KHUF 16 500, and its total cost: KHUF 49 500.
   Contract number: .

   Team leader: ***Pápay Zsolt Dr.***
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2. ***Budapest University of Technology and Economics, Dept. of Highway and Railway Engineering***

   URL: <***http://www.uvt.bme.hu***>

   Support for the consortium member: KHUF 5 500, and its total cost: KHUF 5 500.
   Contract number: .

   Team leader: ***Fi István Dr.***
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   H-1111 Budapest, Műegyetem rkp. 3.
   <***http://fi@uvt.bme.hu***>, phone: +36 (1) 463-1151

3. ***Budapest University of Technology and Economics, Dept. of Control Engineering and Information Technology***

   URL: <***http://www.iit.bme.hu***>

   Support for the consortium member: KHUF 5 500, and its total cost: KHUF 5 500.
   Contract number: .

   Team leader: ***Kalmár Péter Dr.***
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4. ***Budapest University of Technology and Economics, Dept. of Automobiles***

   URL: <***http://www.gjt.bme.hu***>

   Support for the consortium member: KHUF 5 500, and its total cost: KHUF 5 500.
   Contract number: .

   Team leader: ***Stukovszky Zsolt Dr.***
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