

**EasyWay**



Annual Forum 2010



**Shortcut to the future.**

Lisbon • November 16<sup>th</sup>-18<sup>th</sup>



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# Truck Parking Management on the Hungarian Transit Roads

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# Introduction

Several European corridors carry transit freight in Hungary.

According to strict rules truck drivers need rest in regular intervals.

One of the easiest ways for resting is to stay in a truck parking place along the transit road network which mainly consists of motorways.



## Shortage in parking capacity

Since there has been a shortage of truck parking capacity an intention for an intelligent truck parking management has arisen.





# Role of Easyway Phase I.

A domestic feasibility study has been elaborated recently dealing with truck parking capacity and spatial demand distributions.

A continuation in order to implement a practical pilot has been provided by the Easyway Phase I.

The project has a solid background, the new Guideline for the Deployment of Intelligent Truck Parking



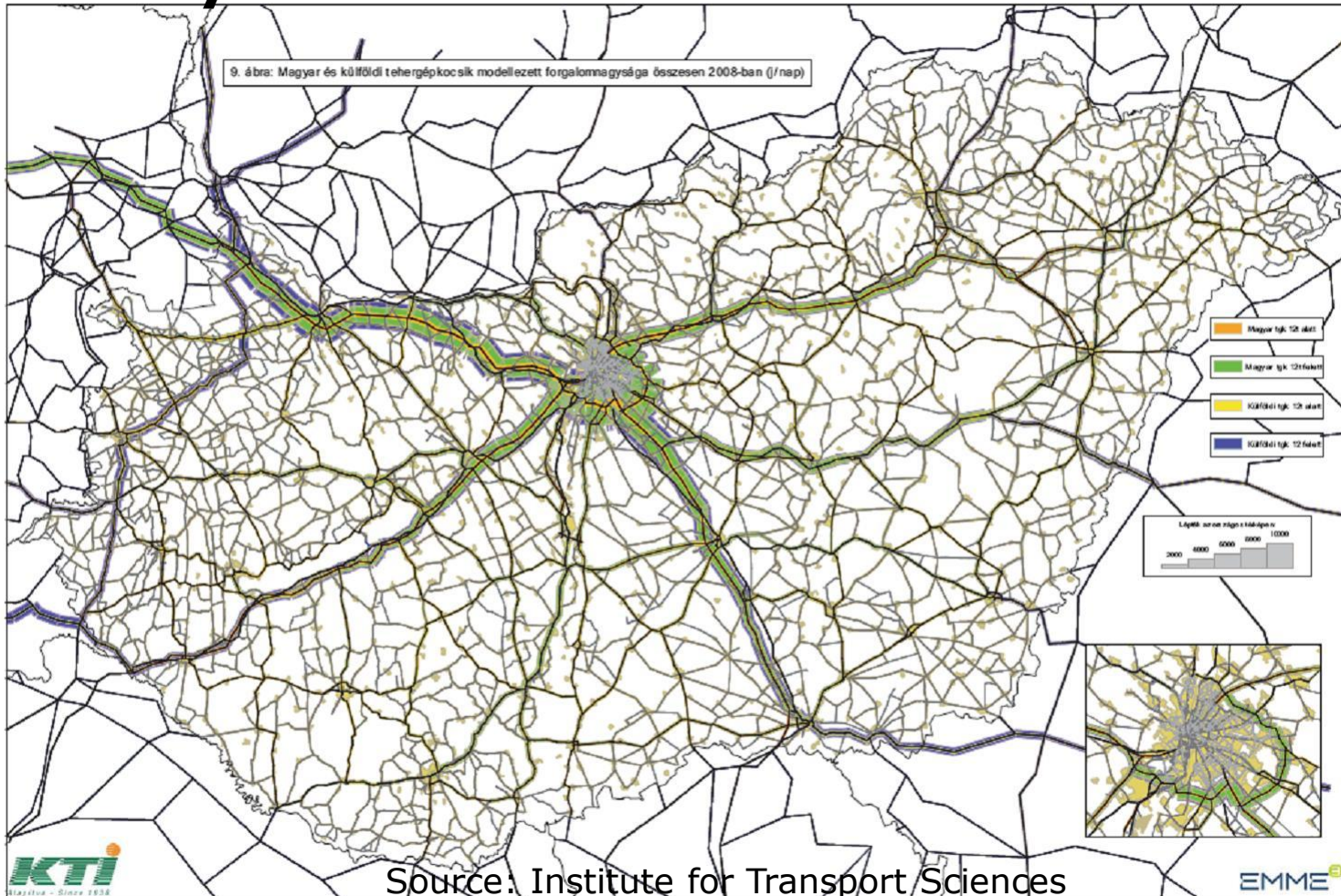
# Dynamic information

Dynamic information is very important for the well-balanced use of capacities.

The largest Hungarian motorway operator, the State Motorway Management Company intends to provide dynamic information using variable message signs on the main truck transit routes, in this phase concentrating on M1-M0 route, where the share of HGVs is the highest.



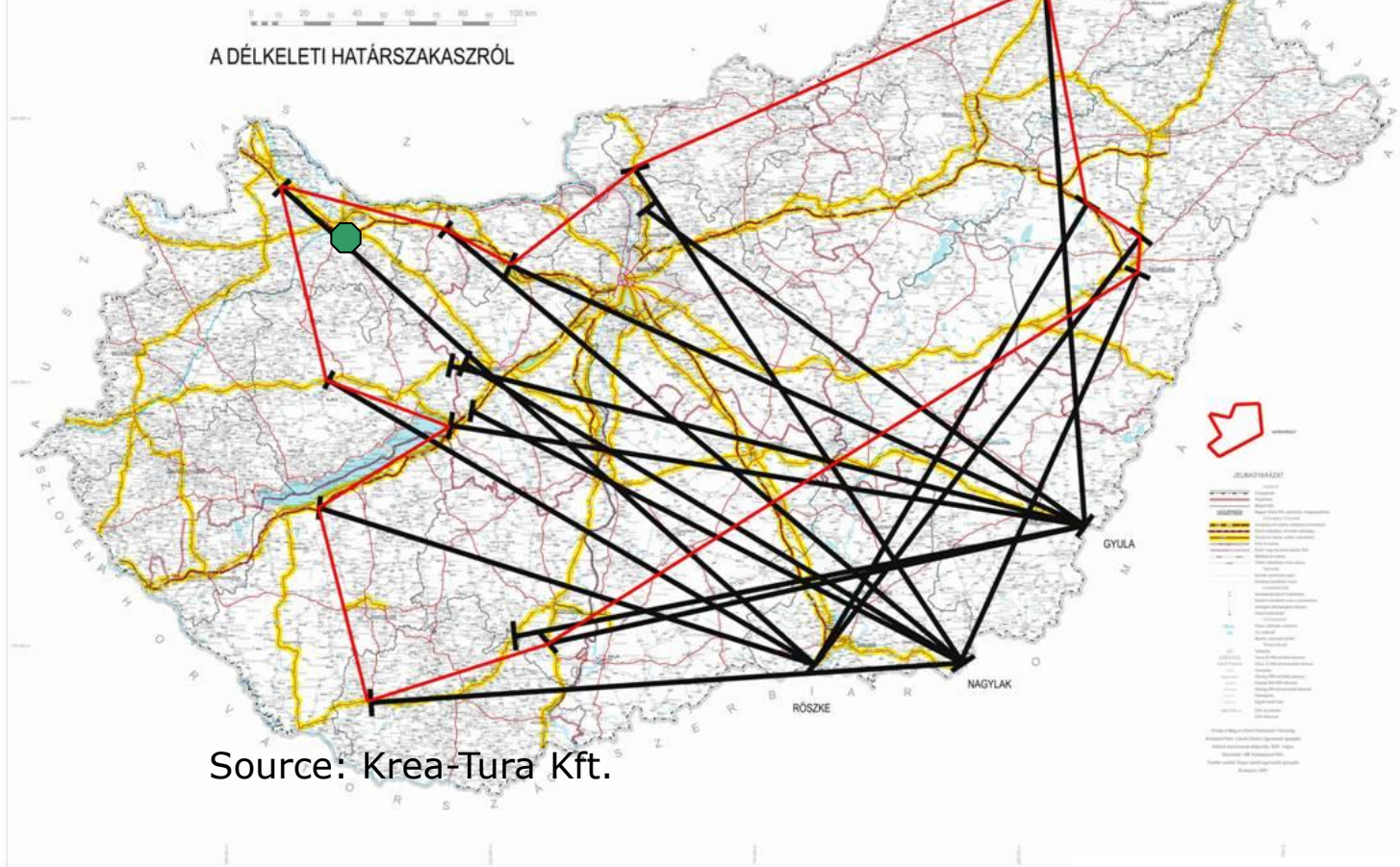
## Heavy truck traffic 2009





## 4,5 h distances from borders

MAGYARORSZÁG ORSZÁGOS KÖZÚTHÁLÓZATA  
A NEHÉZ TEHERGÉPKOCSIK ELJUTÁSI TÁVOLSÁGAI A KIJELÖLT ÚTHÁLÓZATON 4,5 ÓRAALATT





# Pilot project

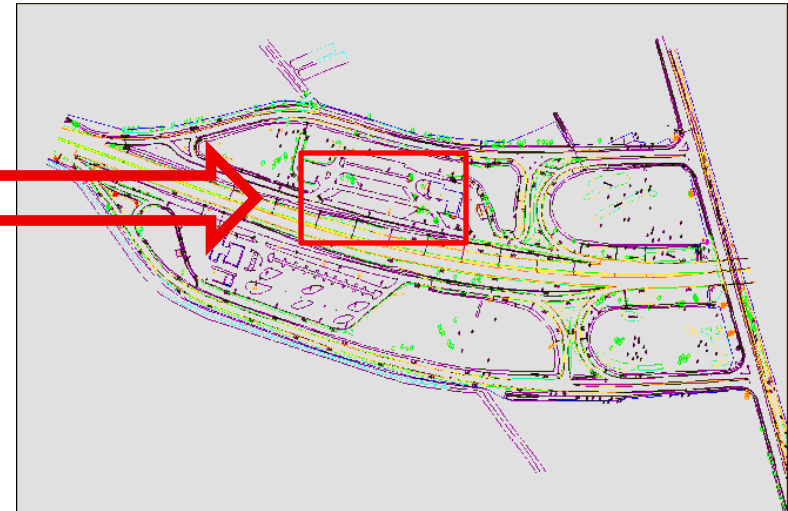
A system architecture study has been elaborated and a pilot project has been implemented within the framework of Easyway Phase I.

The pilot site was implemented in a large rest area along a main axis of transit freight transport in Hungary (motorway M1) nearby the town of Győr.



## Pictures of the pilot project

Rest Area M1 ARRABONA North by the town of Győr





# Free parking lots

In this pilot site, way of determining the exact number of free parking lots is based on a unique 3D video analysis system, to avoid false detection (p.e. in winter weather conditions).

The whole truck parking area is covered by 3 elevated double-cam surveillance points.



## Details of the pilot project (3D image processing software)

FMA Kliens

VJT Rendszerkarbantartás Loggolás

Felhasználók Memókészek Autópályák

Pálya Parkolók - M1 autópálya /Budapest-Hegyeshalom/

Parkoló Kamerák - J/118000

XPORT_INT	PARKOLO_ID	OSZLOP_AZONOSITO	TEHERPARKOLO_SZAM	TIPUS	GYARI_SZAM	IP_CIM	UZEMBEHELYEZES_IDOPONTJA
1	1	"A" oszlop	9	PIPDM642UETH	100-001	10.13.55.10	2010.03.15.
2	1	"B" oszlop	9	PIPDM642UETH	100-002	10.13.55.11	2010.03.15.
3	1	"C" oszlop	12	PIPDM642UETH	100-003	10.13.55.12	2010.03.15.

**Egyéb**

- Max\_teherauto\_szam: 9
- Uzembehelyezés: 2010.03.15.

**Elérhetőség**

- IP\_cim: 10.13.55.10

**Id**

- Egyedi\_azonosító: 1
- Parkoló\_azonosító: 1
- Oszlop\_azonosító: "A" oszlop
- Típus: PIPDM642UETH
- Gyári\_szám: 100-001

**Egyedi\_azonosító**  
Felhasználó egyedi azonosítója (autoincrement)

Élőkép  közvetítés

10.13.55.10 5 10.13.55.11 6 10.13.55.12 7

Szabad helyek

10

Start | C:\Program Files\M1... | fma | FMA Kliens | HL | 15:55



## Details of the pilot project (On site equipment)





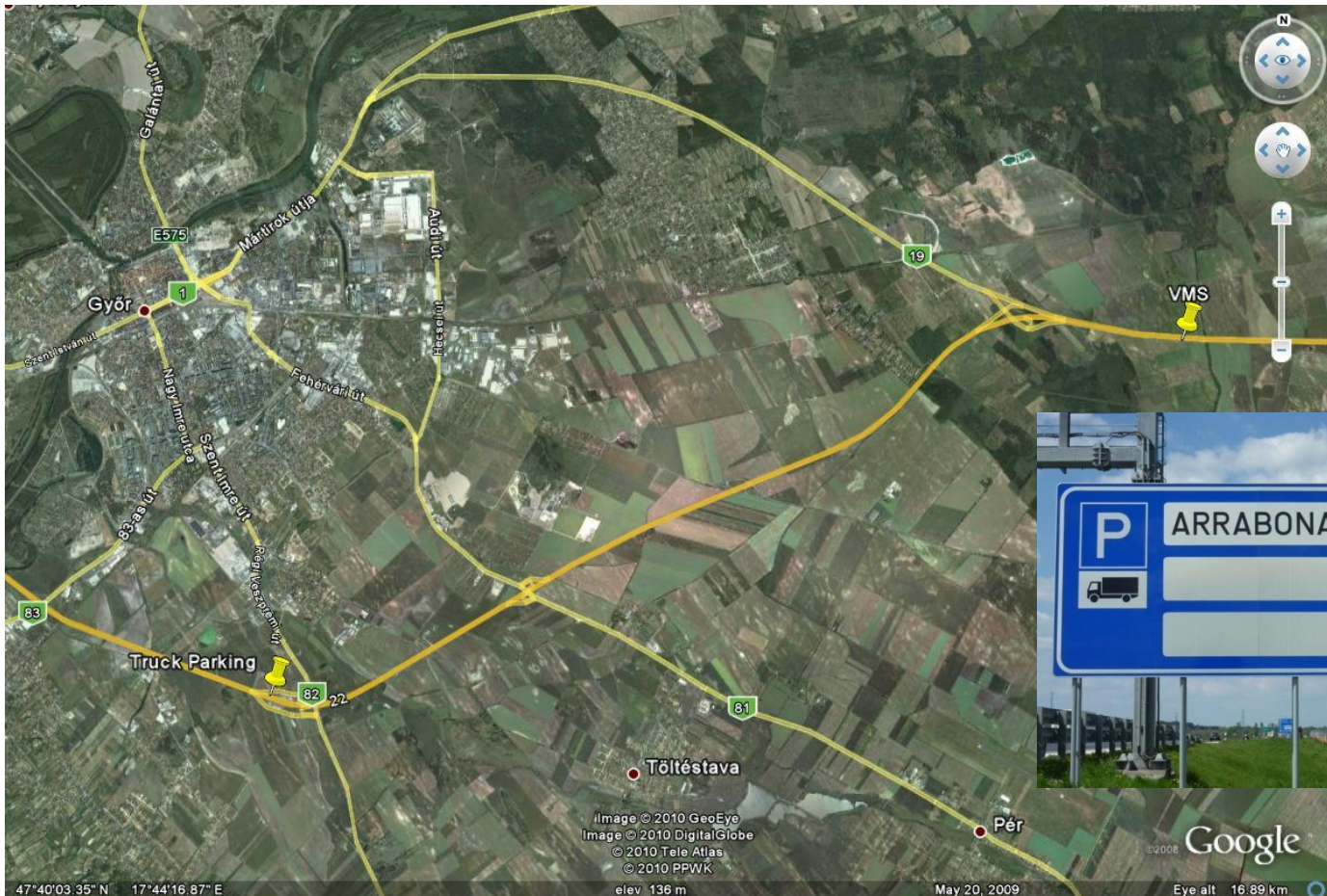
# Information for truck drivers

The amount of free places is shown on a VMS panel some 15 km far from the pilot site as real-time information.

Later on with the extension of this monitoring system, truck drivers may plan their stop using the dynamic information indicated on this type of VMS panels.



## VMS 15 km before parking





# Further R&D

The service will be suitable for extended truck parking management in the future.

Further development of the system is possible within Easyway Phase 2 to achieve higher levels of services like management at section level. In the framework of Easyway Phase 2, two more rest areas are planned to be covered in the region.



## Conclusions

The main goals of the pilot project:

- to optimise the use of the existing infrastructure in terms of parking facilities and
- to provide relevant and suitable information to the European truck drivers

are successfully achieved.



# Thank you for your attention

