

**EasyWay**



Annual Forum 2010



# Shortcut to the future.

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



**EasyWay**



Annual Forum 2010



**Shortcut to the future.**  
Lisbon • November 16<sup>th</sup>-18<sup>th</sup>

# Impacts of the ITS Investments on Hungarian Motorways

Ádám Nagy – Tamás Tomaschek

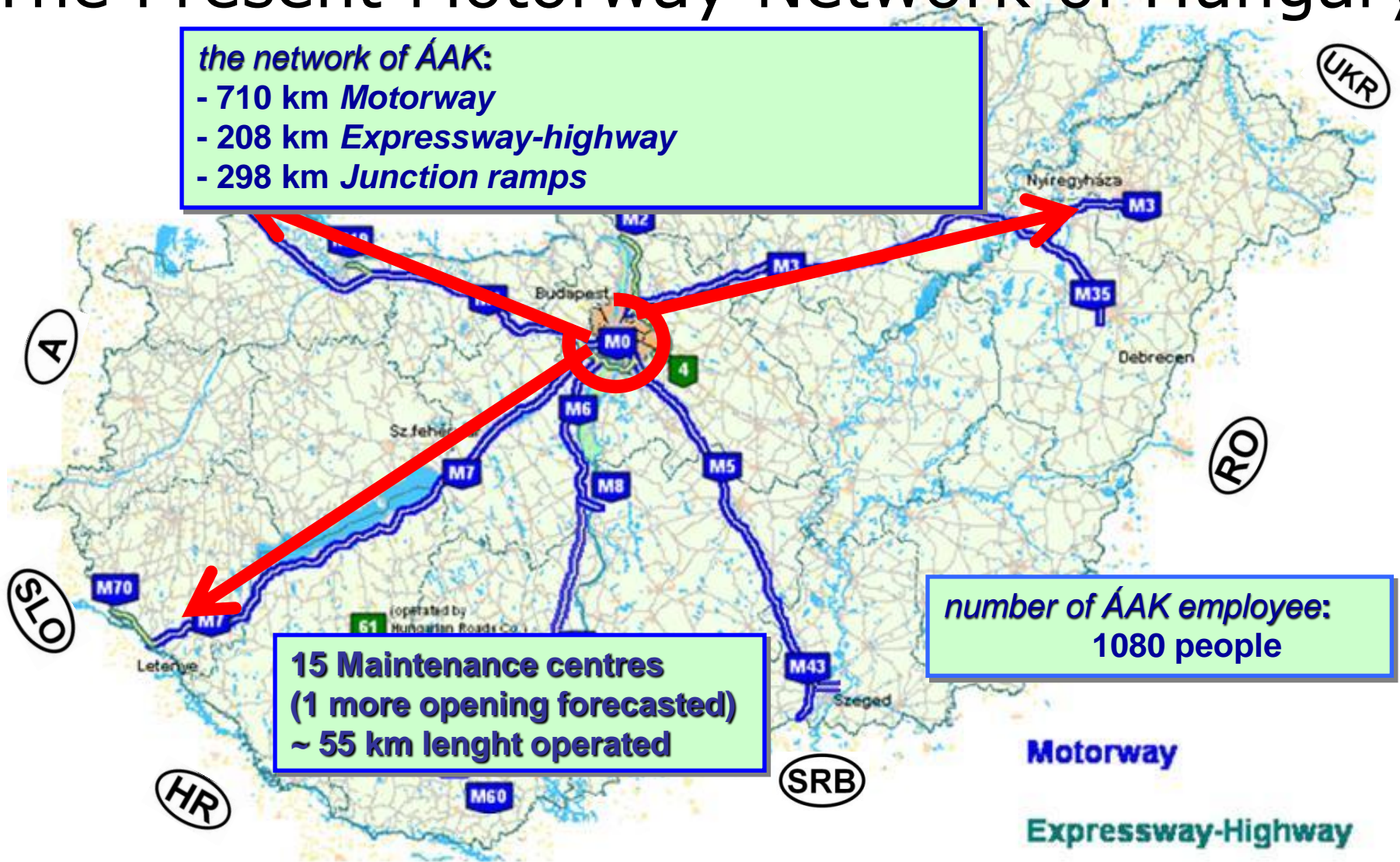
State Motorway Management Co. LTD.



## The Present Motorway Network of Hungary

*the network of ÁAK:*

- 710 km *Motorway*
- 208 km *Expressway-highway*
- 298 km *Junction ramps*



*number of ÁAK employee:*  
1080 people

**15 Maintenance centres**  
**(1 more opening forecasted)**  
**~ 55 km length operated**

**Motorway**  
**Expressway-Highway**



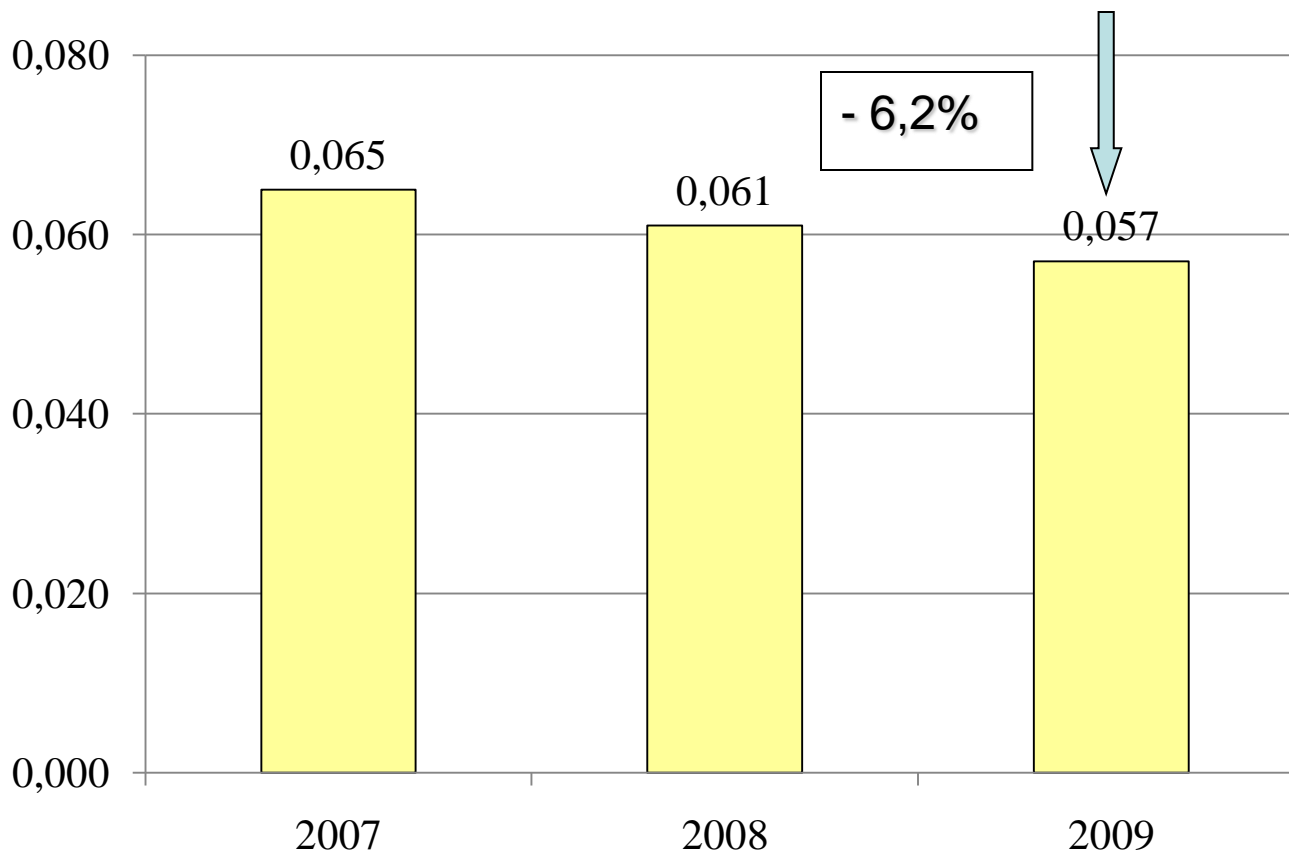
## ITS in figures

	CONNECT II.	CONNECT III.	EASYWAY	CONNECT + EASYWAY	Total
Dome camera	22	19	37	78	164
AID camera	1	2	24	27	58
Webcam	22	36	0	58	62
VMS gantry	3	5	17	25	159
Prism VMS site	2	2	0	4	10
Meteo station	0	0	2	2	119
Loop detector	3	1	12	16	134
Counted junction	0	2	3	5	23



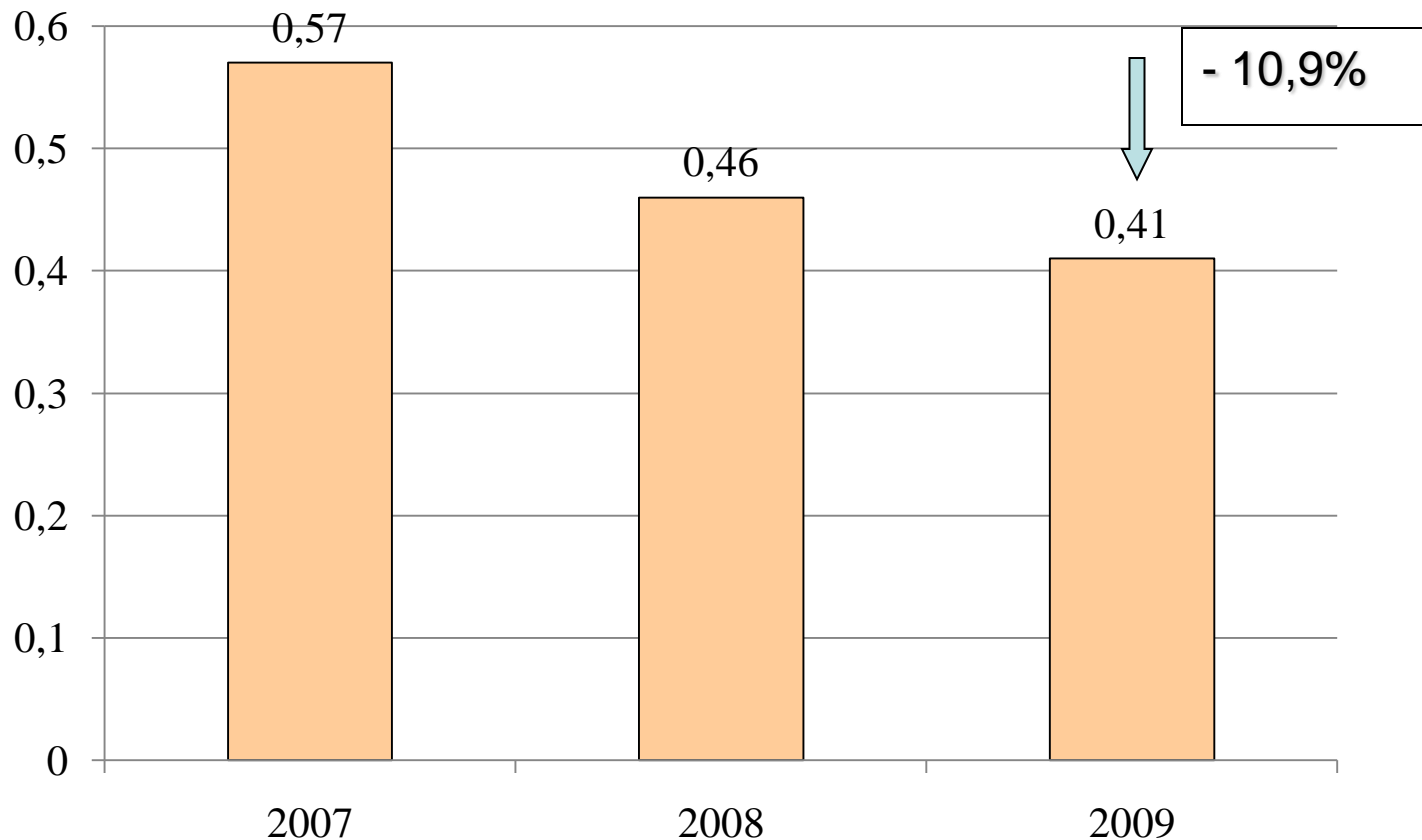


## Relative accident rate on ÁAK network (accidents with personal injury pro 1 million vehicle km)





## Weighted accident rate on ÁAK network (weighted sum of accidents pro 1 million vehicle km)



Weights: fatality (5), serious injury (3), slight injury (2), no injury (1)



## Major investments

- Improvement of the ITS along M0 (Budapest Ring Road) and linking radial motorways near the M0 junctions
- Development of the central control software for the future TCC



## Aim of using ITS is improving traffic safety by:

- Early detection of incidents, for prompt reaction
- and real time monitoring of the impacts, for the proper information of road users





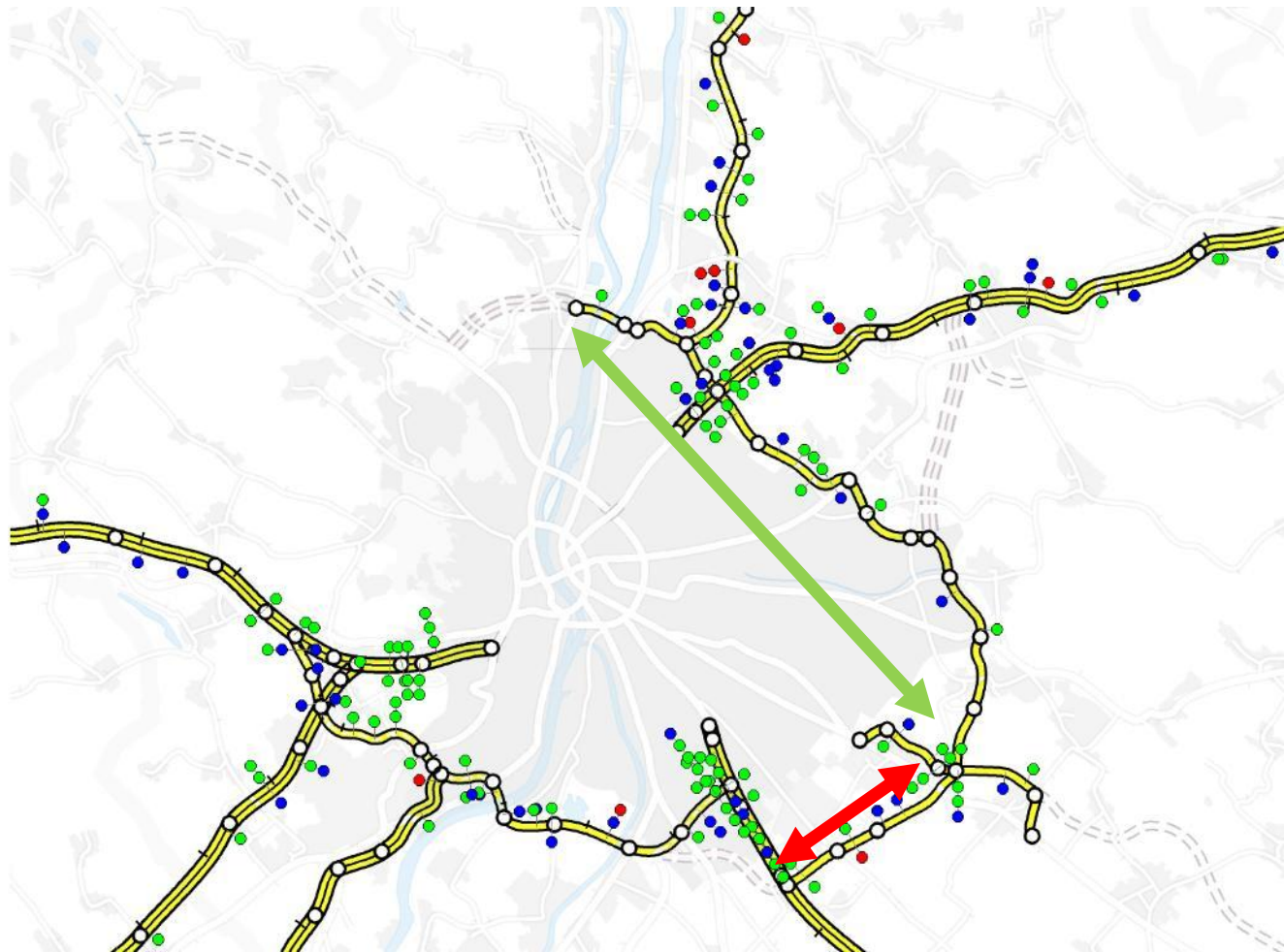
## Accidents on M0 (Nort and East part)

### With ITS (41-77)

- 36 km
- Fatality: no
- Serious: 4
- Slight: 14

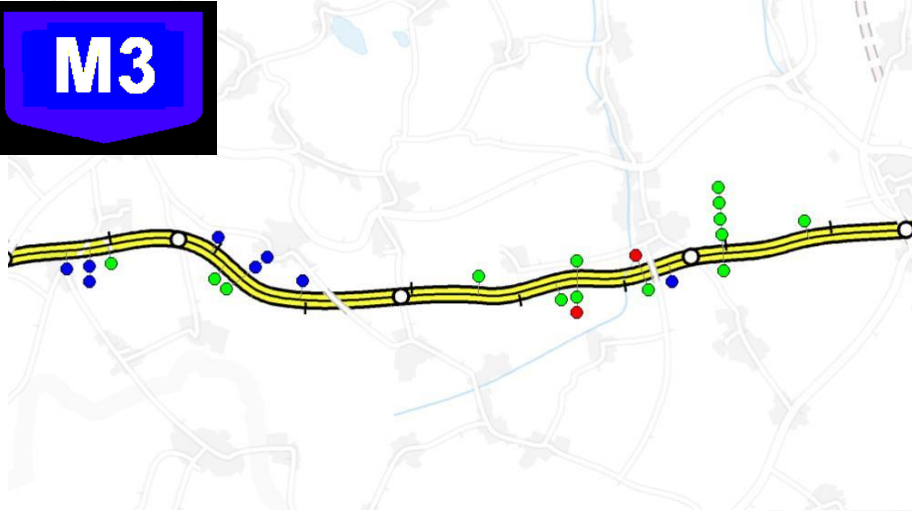
### Without ITS (31-41)

- 10 km
- Fatality: 1
- Serious: 2
- Slight: 3



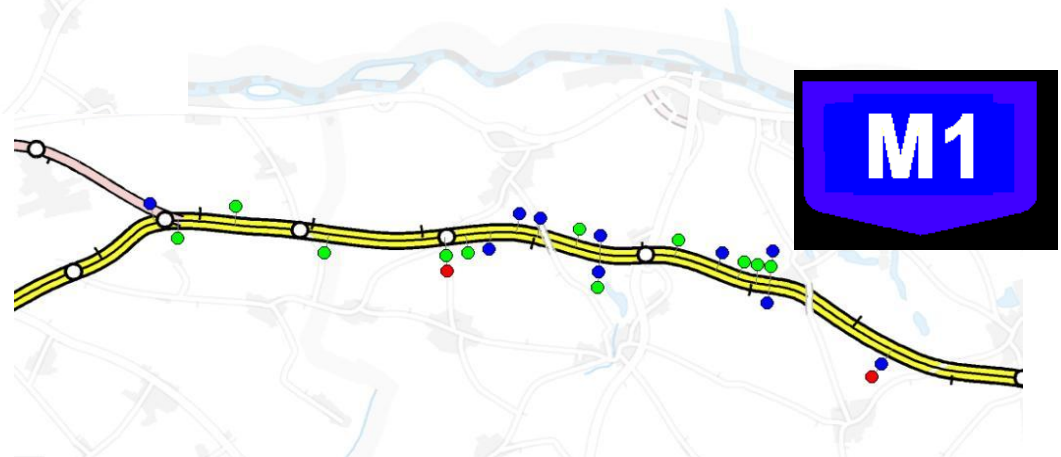


## Accidents on sections with similar traffic volumes (approx. 30.000 AADT)



- 44 km
- Fatality: 2
- Serious: 8
- Slight: 14

- 40 km
- Fatality: 2
- Serious: 10
- Slight: 11





# Thank you for your attention!



ÁLLAMI AUTÓPÁLYA KEZELŐ ZRT.