

HUNGARIAN PUBLIC ROAD

NONPROFIT PLC

Máté Verdes

Head of ITS Department

Member of TC 2.4 Road Network Operation/Intelligent
Transportation Systems

**New mobility behaviour in post
Covid-19 world – V4 perspective**
July 22, 2020 PIARC



“How to promote alternative transportation modes in order to compensate the COVID effects of the road network. Practical examples from Hungary.”

1. Short Introduction
2. Initiatives and practical examples
3. Summary, questions and opinions from the audience



Transit routes in Europe

Hungary and the public road network operated by the Hungarian Public Road Nonprofit Plc.- due to its location - has a key role in the European transport systems.



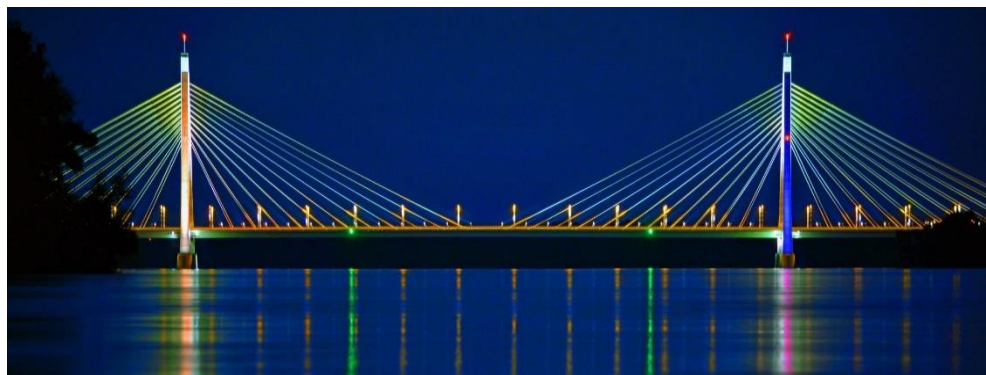
National road network

31 495 km long operated road network, 7307 bridges

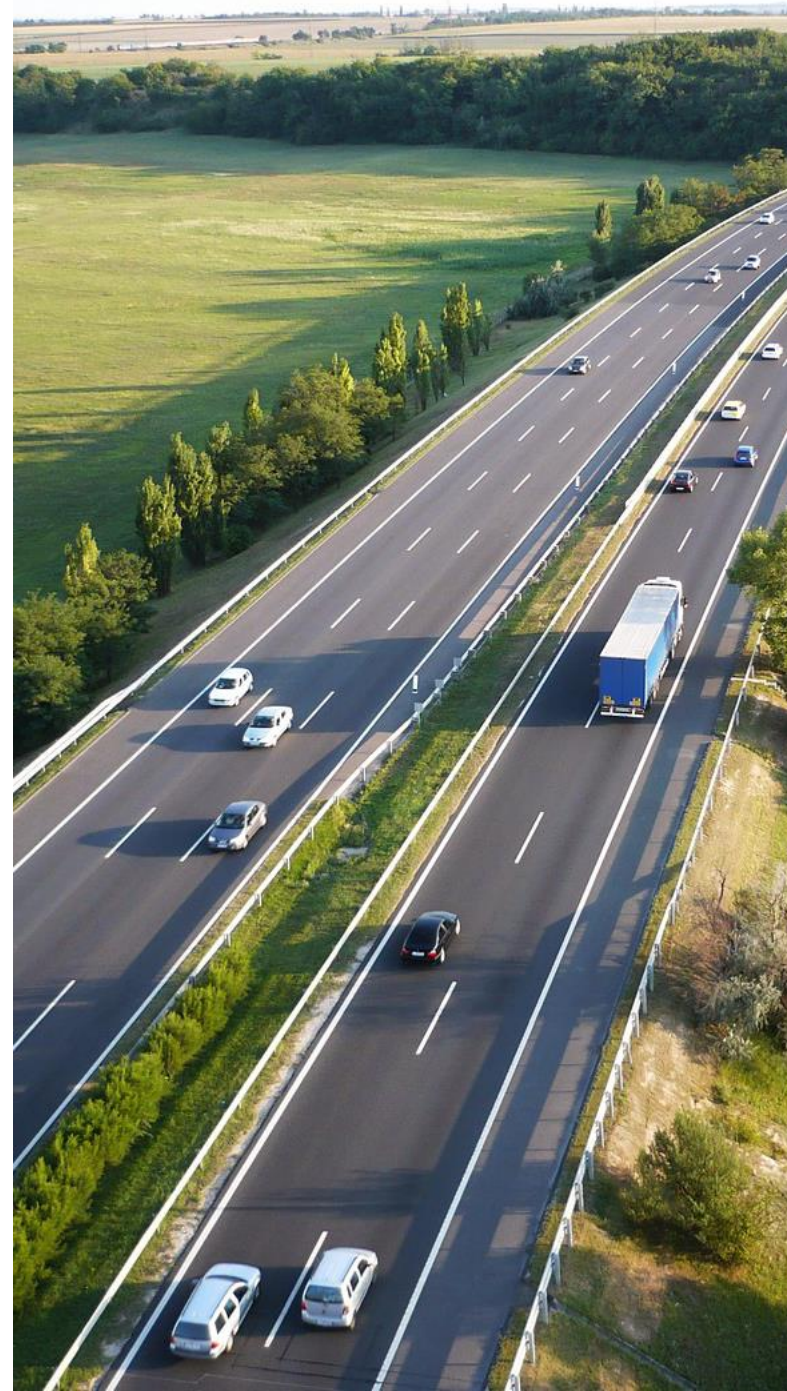
(178.809 km operated by municipalities)



Kőröshegy Viaduct on M7 motorway



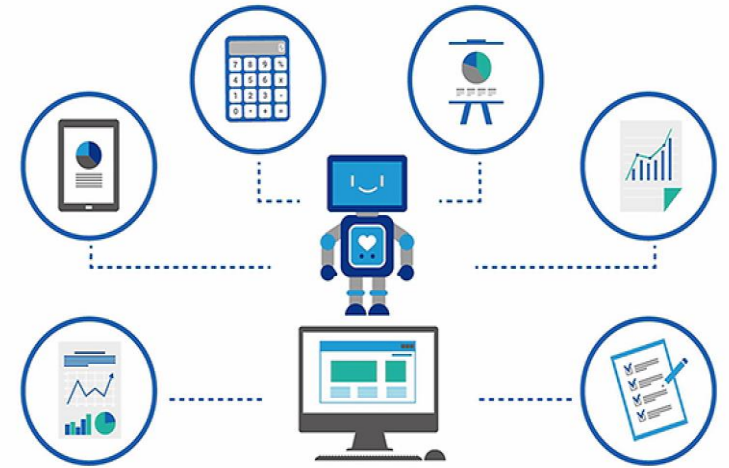
The 10-year-old *Megyeri Bridge* on the M0 motorway



Changing role of a road operator

Our mission to use both well proven and both advanced technology to the challenges

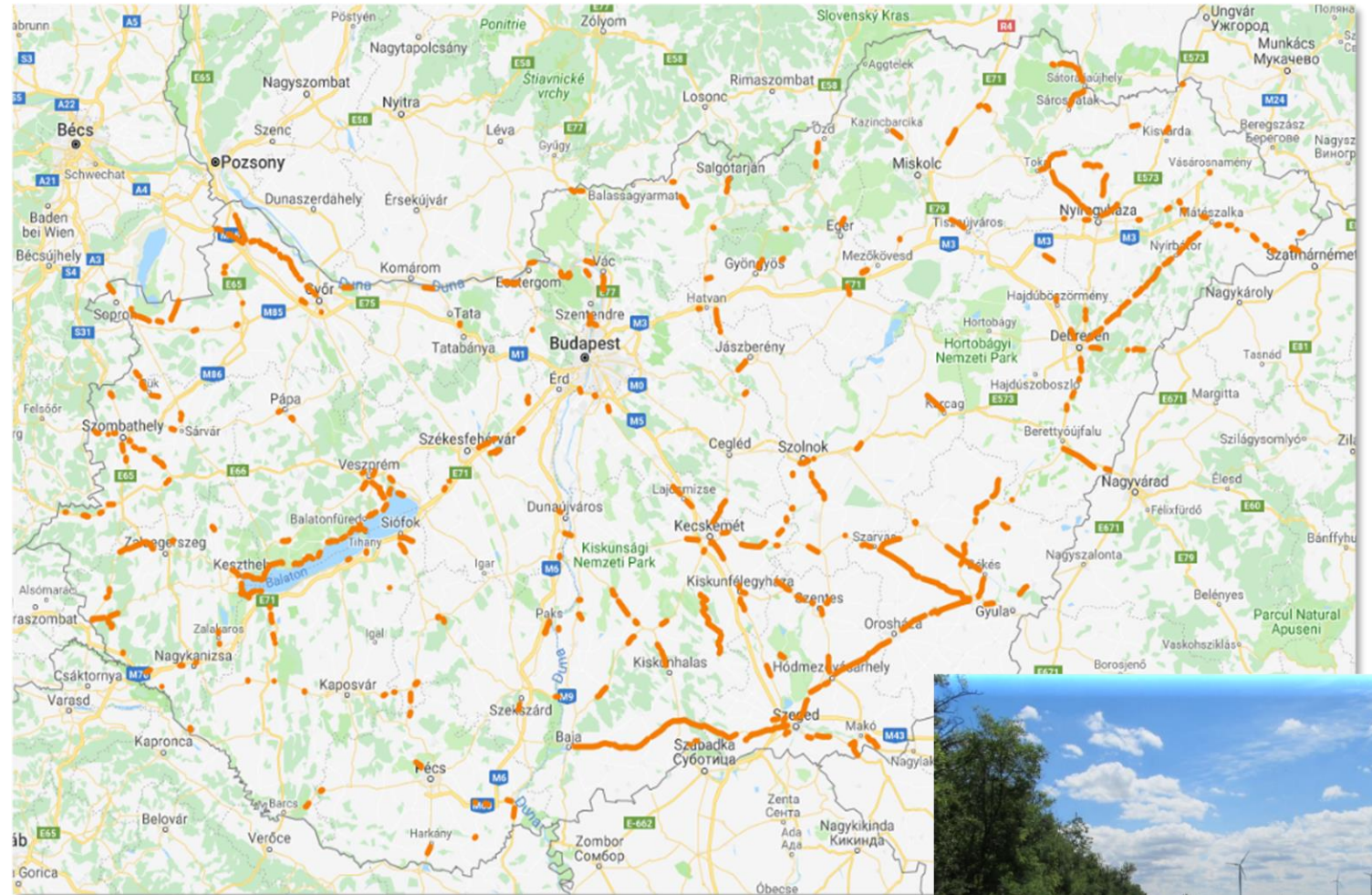
- Operate cycle paths since 2018
- Data driven dynamic traffic control: two pilot section (motorway and city)



Development of cycle paths network

www.kozut.hu

- from 2018, our company manage sections of cycle paths outside the residential area, parallel to main roads or on the main network
- more than 1000 km bicycle roads
- the handover process was completed by the summer of 2020



Traffic counting on bicycle roads

52 pc traffic counter implemented between 2018-2020

Traffic data accessible to anyone: veloclass.hu



HiDALGO and Dynamic traffic control

WHAT?

HiDALGO is a Horizon2020 financed program, which enables highly accurate simulations, data analytics and data visualisation, and also provides knowledge on how to integrate the various workflows as well as the corresponding data. Pilot site in the city of Győr.

Dynamic traffic control pilot implementation on motorway M7.



Weather and air pollution transmitters



HOW?

Dynamic Traffic Light Control based on the monitoring of air pollution level

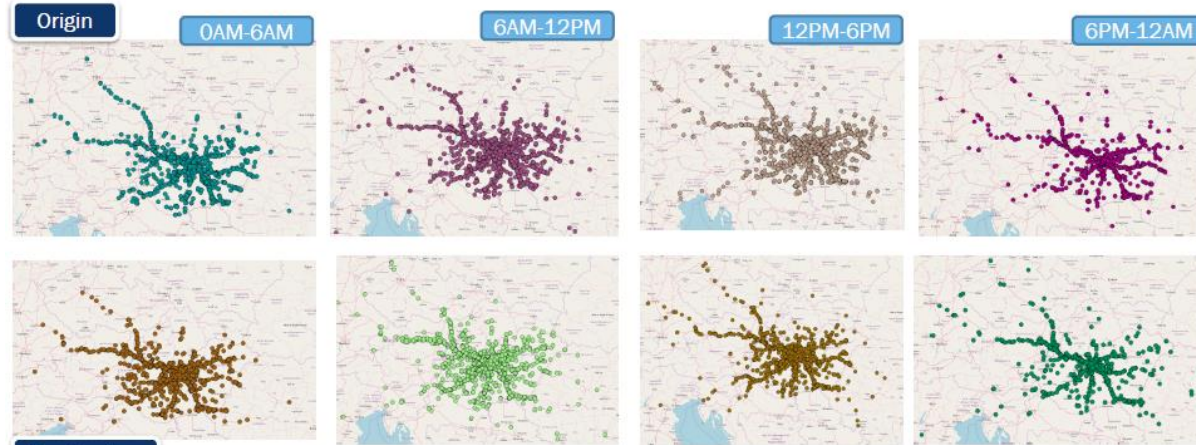
Dynamic speed control based on different monitoring systems such as noise pollution monitoring, complex meteorological stations, optical detection



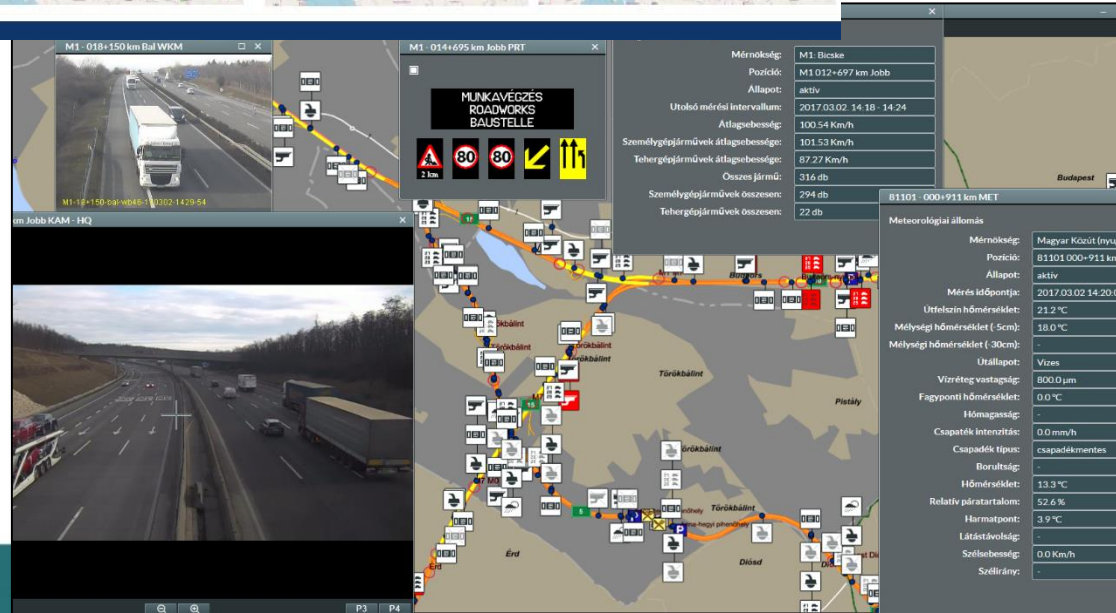
Measure → Analyse → Rank

INRIX Trip Records – Example on MO road

Period: 1st October – 3rd October 2018



Destination



EXPERIENCE ON COOPERATION WITH EXTERNAL PARTNERS

Cross-border agreements with neighbouring countries

NAP

Agreements with private service providers

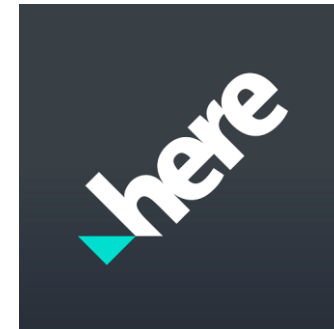
TOMTOM®



AISFI/INAIG Verkehr Maut & Vignette Verkehrssicherheit

Ungarn M0 ring road around Budapest 12 Webcams

km	M1 km 163,90	Blickrichtung
0,90	Hegyeshalom, Rajka	M1-es autópálya
0,90		M5-ös autópálya
3,80		M5-ös autópálya
5,58		M1-es autópálya
10,65		M5-ös autópálya
15,40		M5-ös autópálya
17,70		M5-ös autópálya
19,29		M1-es autópálya
22,00		M5-ös autópálya
22,00		M5-ös autópálya
27,55		M1-es autópálya
28,50		M5-ös autópálya



User Agreement DARS

USER AGREEMENT for access to specific DARS traffic information
 FELHASZNÁLÓI SZERZŐDÉS meghatározott DARS közlekedési információkhoz való hozzáféréssel

concluded between DARS d.d. and Magyar Közút Nonprofit Zrt.

(seat: Cesta XIV. Divizije 4, SI-3000, Celje, SLOVENIA); represented by: Bojan Banfi; hereinafter referred to as: DARS.

(székhely: Cesta XIV. Divizije 4, SI-3000, Celje, SZLOVENIA); képviseli: Bojan Banfi; a továbbiakban: DARS)

Magyar Közút Nonprofit Zrt.

(székhely: 1024 Budapest, Fényes Elek utca 7-13.; company reg. number: 01-10-046265; tax cégjegyzékszám: 01-10-046265; adószám: number: 14605749-2-44; represented by: Szilvia 14605749-2-44; képviseli: Szilvia József Attila; a





MAGYAR KÖZÚT

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Thank you for your kind
attention!

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