

# INVESTMENT FACT SHEET

## I5/Real time information system in Nagykálló

Version 2

Project index number and acronym	CE55 RUMOBIL
Responsible partner (PP name and number)	PP12 Self-government of Szabolcs-Szatmár-Bereg County
Linked to pilot action (number and title)	A.T2.3 Piloting the improvement of access points to national and EU transport networks
Project website	<a href="http://interreg-central.eu/Content.Node/rumobil.html">http://interreg-central.eu/Content.Node/rumobil.html</a>
Delivery date	05/2019

Description and technical characteristics of the investment

A new „real time passenger information system” was implemented between Nagykálló and Nyíregyháza (capital city of the country). 8 refurbished bus-stations received a passenger information panels to inform accurately the waiting passengers. The new system shows the exact arrival and departure time and of course the expected delays too. The passenger information system and the bus-stops has been integrated in the official transport information system and the busses -operating on the line- are transmitting directly precise geo-information about their whereabouts to the panels, which are displaying the important data to make the public transport use more comfortable, predictable so more user-friendly. During the implementation people with reduced visibility’s specific demand has been considered as well, therefore loud passenger information is also available on the pilot bus stops that can be activated with an easy button press.

#### **Real time information panels**

**Type** - Industrial, outdoor

**Housing** - Metal

**Display type** - LED-Matrix

**LED color** - orange

**Number of displays (pages)** - 1 pc

**Number of rows that can be displayed** - line 4

**Resolution** - 128x32 pixels

**Display visible surface** - Display interface with minimum P8 LED distance

**Brightness** - min 2000cd / m2 (NIT), automatic brightness control

**Surface** - Anti-glare safety glass

**Communication interface** - GSM

**Power supply** - 230V

**IP Protection** - IP 55

#### **Functions:**

- timetable and dynamic arrival information display
- possibility of static, scrollable and flashing display
- accurate time display
- push-button and / or remote control activated passenger information

#### **Display management software**

- Connection to a regional SIRI service and remotely upload static schedule data.
- Simple Display Status Information (Availability)
- Tablet image editing, automatic scrolling of longer texts
- Display individual texts in time intervals

### Investment costs (EUR) including a break-down of main cost items

The total cost of pilot implementation was 10.789.920. HUF (approx.: 33.620 €) which includes the following items:

- Production of 8 real time information panels and related management software - 9.550.400. HUF (approx.: 29.752 €)
- Transportation & installation cost - 1.239.520. HUF (approx.: 3.868 €)

### Investment location

NUTS 3	Address (Street, house number, postal code, city, country)	GPS coordinates
HU323, Szabolcs-Szatmár-Bereg	The pilot action has been implemented at Nagykálló town along the main bus line linking the city to Nyíregyháza, the seat and capital of Szabolcs-Szatmár-Bereg county.	Not applicable

### Duration and process of investment implementation

Start date	End date
10/2018	05/2019

### Major milestones of investment implementation

The production of the panels started at the end of January 2019. so the effective pilot could start and finished in the 2nd week of May when the 8 information panels has been installed and connected to the ÉMKK (PT operator) system, furthermore the loud passenger information system has been also put into operation.

### Ownership and durability of the investment (e.g. maintenance, financing)

The purchased and installed items will remain in the ownership of Self-government of Szabolcs-Szatmár-Bereg County which will be responsible for their maintenance, repairs as well as for the future software updates in cooperation with ÉMKE (PT operator and HC-LINEAR (selected bidder that delivered the info-panels). The county make the necessary financial resources available for the maintenance costs.

### References to related pilot action (output fact sheet) and relevant deliverables (e.g. pilot action report, studies) and web-links.

If applicable, additional documentation, pictures or images to be provided as annex

The main objective of the pilot was to piloting the improval of access points to national and EU transport networks by creating a new real time passenger information system based on bus traffic between Nyíregyháza and Nagykálló.

Annexes:

- Pilot interim report (D.T2.3.5)
- Pilot final report (D.T2.3.6).
- Public transport demand prognosis (D.T1.5.1)