



## INTELLIGENT TRANSPORTATION SYSTEMS

# Intelligent system for public transport in the city of Nowy Sącz (Poland)

### The project

- AVLS onboard equipment, ticketing and traffic light priority for 81 buses:
  - High-performance OBU for AVLS management, ticketing and passenger information
  - 324 contactless card validators
  - 36 onboard multimedia information displays
  - Communications equipment with traffic light controller
- Passengers information system:
  - Onboard multimedia information system (36 displays)
  - 13 information displays at stops
  - Information website
- AVLS and passengers information control center
- Backoffice of the ticketing system

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*«The implementation of ITS systems in collaboration with GMV has had a very positive impact on the city's urban transport»*  
Artur Maciuszek, Head of the Operations Department





## Initial situation and objectives

In 2011, MPK Nowy Sacz set itself the challenge of modernizing its public transport network with a set of strategic objectives, among which were the establishment of mechanisms to supervise service compliance, obtaining real-time information and tools for dispatchers, and implementing an electronic ticketing system. All of this, together with the inclusion of traveler information systems, aimed to increase the attractiveness of public transport to users and improve management for the authority.



## Solution

From the first project in 2011 to the successive improvements and extensions that have been carried out over the years until today, GMV has implemented a complete ITS system for MPK Nowy Sacz. Among the characteristics of this system, it is worth highlighting the implementation of the ticketing system from scratch, in an operator that did not offer a contactless card for its users. Both transportation passes and electronic wallets were implemented on the same card, with the “check-in check-out” functionality that allows the user to pay the exact fare for the trip they take. In addition, MPK aimed to improve the commercial speed of its transport lines by giving buses priority at intersections. To achieve this, a traffic light priority system was implemented by

## Implementation of a complete and integrated ITS for the management of public transport in the city of Nowy Sacz

The public transport authority of the Polish city of Nowy Sacz has trusted GMV for the deployment of the new fleet management, passenger information and ticketing systems for the entire bus fleet.

GMV's new solution for ticketing allows to avoid the use of cash, improving the comfort and quality of service for passengers.



*«One of the biggest projects carried out in collaboration with GMV was the introduction of the electronic ticketing system, very advanced and adapted to the needs of passengers»*

*Magdalena Kniec, Head of the Customer Service Department*

sending priority request signals from the OBU to the traffic light controllers at intersections in real time.

Regarding the passenger information system, after the initial installation of real-time information displays at stops, in a later phase on-board multimedia information equipment has been implemented in 36 buses, composed of an on-board multimedia server (**REC30**) and TFT displays. The system provides next stop information, route information and connections to other lines along with automatic voice announcements.

## Achievements

Thanks to the ITS system MPK Nowy Sacz has a real vision of the transport network, which allows it to optimize planning.

There has been an improvement in bus punctuality.

Control over the transport network and the possibility of reacting quickly to emergency situations has increased, as has the safety of travelers thanks to on-board CCTV.

The new ticketing system makes it possible to eliminate cash payment and make it easier for travelers to use public transport.

