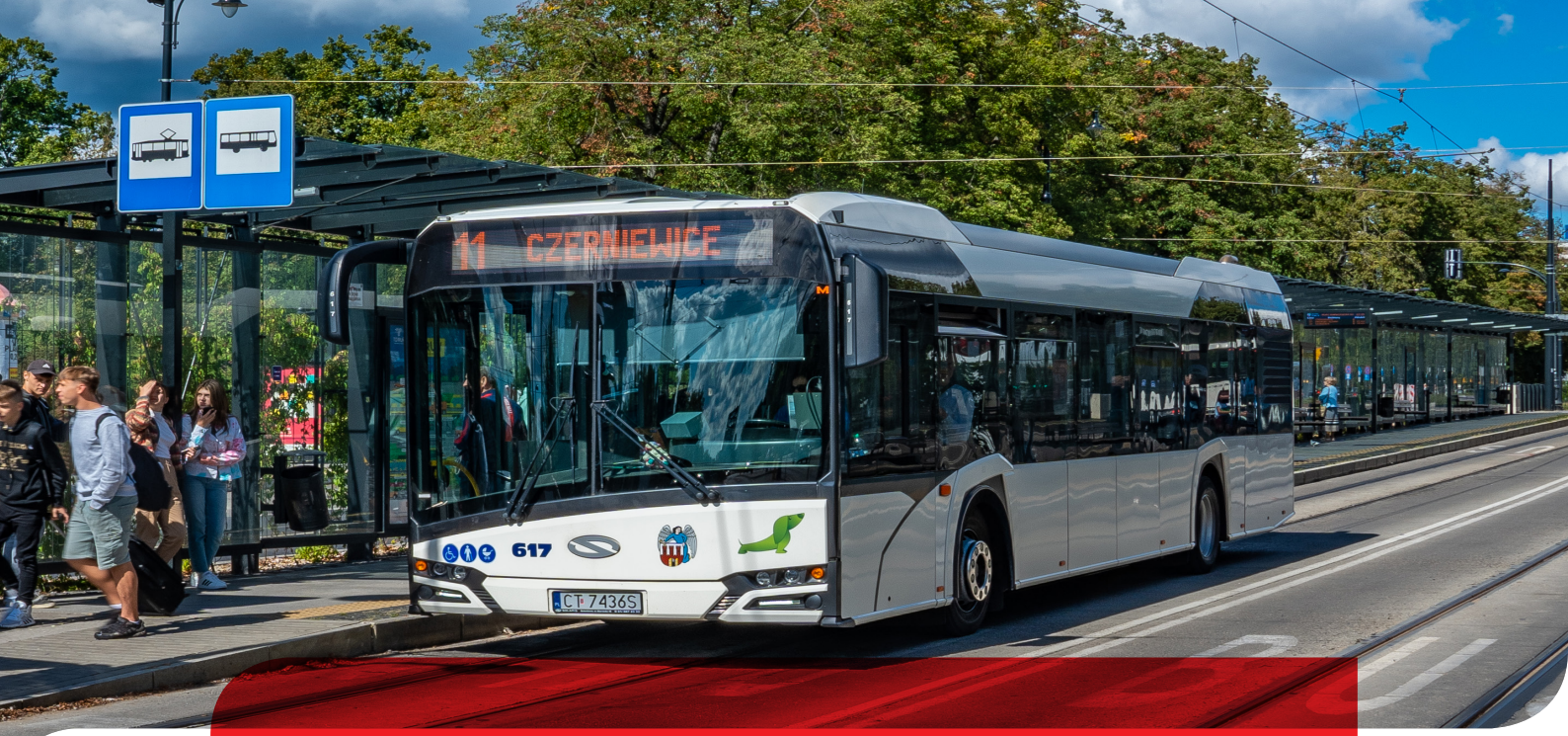

INTELLIGENT TRANSPORTATION SYSTEMS

Intelligent Transport System in the city of Toruń

The project

- Fleet Management System (FMS) on-board equipment for 115 buses and 51 trams:
  - FMS OBU
  - Driver console
  - Accessibility systems
- Passenger information system:
  - 73 displays at bus stops
  - 67 displays at tram stops
  - Announcement of stop on board
  - Mobile app
- Control center:
  - FMS control center and passenger information

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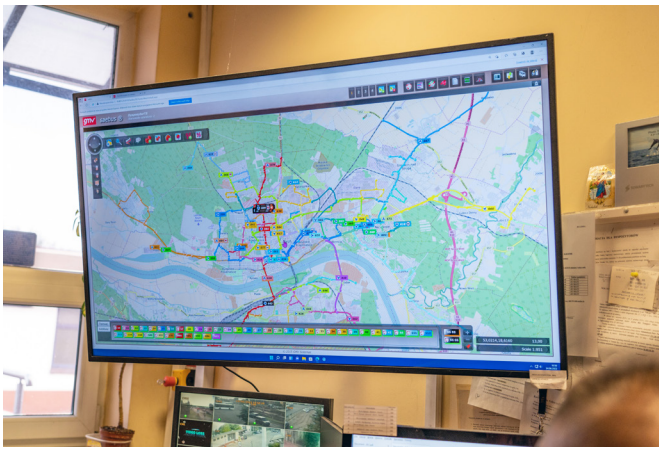
«All the elements of the system implemented by GMV, certainly allow us to increase the quality of urban transport in Toruń»
Marcin Kowallek, Director of the Municipal Services Department of Toruń

Smart City Poland Award

gmv® INNOVATING SOLUTIONS

Initial situation and objectives

In 2011 the Toruń Transport Authority awarded GMV the contract for the passenger information system on the Toruń tram network. The good reception of this system has led the authority to recently deploy the new FMS-PIS for the bus fleet, completing the management of public transport in the city.



Fleet management system and passenger information in Toruń Public Transport

The public transport authority of the polish city of Toruń aims to provide its users with a quality, punctual transport service with complete and accurate information. To this end, it has implemented a fleet management and passenger information system that combines the bus and tram lines, providing an intermodal information service and a powerful management tool for the operator. This project has been awarded the first prize in the Smart City Expo Poland 2022 contest.

Solution

The deployed system allows, on the one hand, to have advanced systems on board the buses and trams that make it easier for the driver to manage schedule adherence through delay/advance warnings and regulation actions.

On the other hand, for the transport manager, a control center has been implemented that apart from the FMS-PIS functionalities typical of these systems, new modules have been developed such as the visual planning program for the network topology and timetables of buses and trams.

This solution makes it possible to optimize the use of the fleet and more efficiently plan vehicle service hours, as well as quick generation of timetables for drivers, stops and the website.

The passenger information displays, with a voice announcement module, equip 140 stops throughout the city, where, in addition to estimated time to arrival, from the new central application, controllers can send various types of messages about possible changes or difficulties in the transport network. This information system is complemented by a mobile app for the user.

Results

The new system contributes to increasing the quality of urban transport in Toruń.

The information system together with the accessibility elements is perceived in a very positive way by the inhabitants of the city.

With the new software modules, Toruń's operators have gained access to many analytical functions that allow them to continuously monitor the state of transport in the city and constantly make adjustments.

«The implemented system makes it easy for bus and tram drivers to continuously monitor driving punctuality»

Krzysztof Przybyszewski, Head of the Public Collective Transport Section. Municipal Services Department of Toruń