PUBLIC TRANSPORTATION MANAGEMENT IN THE CITY OF WROCŁAW

Improved management and security of the Wroclaw transportation system

The Wroclaw transportation service has a fleet of 251 vehicles, including 136 buses and 115 trams.

The municipal transportation company needed a system that provides real-time data regarding demand in order to efficiently manage resources and provide a better service to travelers.

The company was also concerned about the safety of its employees and users, and controlling vandalism and onboard accidents.

The company needs a system that displays fleet information in order to make decisions in real time.
To achieve this we have implemented a new advanced Operation Assistance System (OAS) to manage the 251-vehicle fleet. Through this system, each vehicle can be located at any time and decisions can be made in real time. The system can also generate reports and charts to improve quality and provide information on the service.

With the new real-time traveler information system, users can learn about the next stops, connections with other lines, potential incidents, the ETA for buses and trams, and even view advertisements.

Indra’s solution makes it possible to:
- Monitor and regulate the completion of scheduled services.
- Communicate with drivers from the control center through voice and messaging.
- Remotely monitor the security of users and employees using an onboard CCTV system.
- Provide public transportation users onboard buses and trams with real-time information.
- Provide real-time traveler counts.

A control center is incorporated into the system to offer total management, including the ability to set up all of the devices and implement data on the services provided by the buses.

**Operation Assistance System (OAS) for buses and trams**

**Benefits**

- An expandable solution that is interoperable with the different modes of transportation available in the city.
- Modular design that allows for adaptation to new technologies and advanced features.
- Efficiency thanks to improved quality, speed and completion of services.
- Traveler and driver safety through the incorporation of remote surveillance mechanisms.
- Remote information on current traffic and accident audits thanks to the "driver’s view" camera.

**Results**

**1. Improvement of this citizen service**

- 251 onboard control units
- 251 driver consoles
- 2,234 onboard surveillance cameras
- 474 onboard multimedia panels
- Passenger counting systems onboard 18 buses
- Supervision and control center

**2. 251 onboard control units**

- 136 buses
- 115 trams
- 120 bus lines
- 23 tram lines

**3. State-of-the-art system in Poland in:**

- OAS integration, video surveillance, traveler information and traveler counting provided by one single system
- A system with multimodal and multi-fleet management capability

**World leader in the implementation of ticketing systems for public and private transportation**

In the field of public transportation management, Indra’s operation assistance solution (OAS) and ticketing systems manage over 14,000 buses worldwide, with references in the U.S., Brazil, Colombia, Mexico, Argentina, Poland, Portugal and Spain.

To date, our clients include the Regional Transport Consortium of Madrid, ATM in Barcelona, Asturias Consortium, EMT in Madrid, Valencia and Palma, Provincial Government of Guipúzcoa, Lurraldebus, dBus municipal transport in San Sebastian, Regional Government of Extremadura, Grupo Alsa, Grupo Avanza, Grupo Monbus, Grupo Daibus, Grupo Ruiz, Grupo ADO, Indra in the sector

- Mexico, Medellín Subway in Colombia, CAT Savannah USA, and municipal buses in Wroclaw, Poland, and Braga, Portugal.

Indra’s latest projects in cities such as Kuala Lumpur and Medellín are moving toward intermodal transportation models, which integrate management of different modes of transportation, including buses.

Avenida de Bruselas, 35
28108 Alcobendas
Madrid (Spain)
Tel + 34 91 480 50 00
Fax +34 91 480 50 80
Indracompany.com

Indra reserves the right to modify these specification without prior notice.