



**Autoguidovie**

**Trapeze®**

## **ITCS Solution Pavia, Italy**

**Marking an expansion into Italy, Trapeze was commissioned by Autoguidovie Spa (AGI), the private transport Operator in Pavia, south of Milan, to implement an ITCS solution using the pan-European standards ITxPT, VDV, GTFS and SIRI.**

Trapeze designed and implemented a fully managed service for introducing live loading including Back Office, Business Intelligence (BI) system, and three years of full-service maintenance for 318 vehicles.

The system was delivered within six months from the contract signature, with a go live data of the 1 April 2018, which was the start date of the fleet operation in the City of Pavia.

Upon contract award, a project team was immediately designated to meet the demanding timelines and a fast-track team was deployed to develop the on-bus unit interfaces to integrate signs, APC sensors and CCTV, and develop an interface to import the legacy planning data using a non-standard interface.

A key AGI requirement was to reduce cost and installation time. In 2021, 'WebVLUplus' - a new tablet solution - was introduced as a lightweight on-bus unit that saves cost and time. As part of the pilot, 'WebVLUplus' was connected to interior and exterior displays with passenger counters using ITxPT standard.



### **Working Collaboratively in a Multi-Party Environment**

Collaborative working was in place from the start of the contract. A fully transparent 'open book' approach was extended out to all multi-party stakeholders through several workshops held in Pavia.

The full-service maintenance contract warranted close collaboration between the client, Trapeze, and the sub-system suppliers to ensure the successful delivery of the contract outcomes.

**318 vehicles**

Strong collaborative relationships with other stakeholders were also built - the integration of the LED bus displays, APC sensors and the network video recorder was performed in the Trapeze integration lab with the sub-system suppliers.

**Delivered in 6 months**

Passengers were becoming frustrated when buses arrived and were full and they couldn't board... Real time loading information means people are now more inclined to ride the bus again, which is vital to encourage ridership levels to recover... we had the system up and running on time and were very pleased with how Trapeze worked to support us through the process.

**Gabriele Pusinelli, General Manager, Autoguidovie**



### Successful System Rollout

A robust supply chain and forward planning ensured materials were delivered on time, taking account of lead times to allow for contingency.

This was important as AGI had secured a commercial contract with a challenging operational start date. Trapeze coordinated the delivery of the various components such as on-bus units, brackets, speakers, cables, antennas, APC sensors, network video recorder, LED Displays, and SIM cards to ensure timely delivery, plus provided installation schematic documentation and supported the initial configuration and calibration of the APC sensors.

### Using Field Services in a Cost-Efficient Way

Trapeze provided field maintenance services for Pavia through a local supplier in line with the maintenance service agreement. This is a cost-effective solution that allows immediate scaling of resourcing in line with demands, and does not carry the overhead of having permanent staff allocated to the project.



*Connect with our Experts*

[www.trapezegrup.co.uk](http://www.trapezegrup.co.uk) | [info.uk@trapezegrup.com](mailto:info.uk@trapezegrup.com) | 0808 281 1039

## Added Value

Displayed occupancy level on buses to minimise passenger contact and still provide a service and real-time information

Standard interfaces enabled new systems to be added and integrated with minimal disruption

Adapted to remote working to promote as much flexibility for the Operator as possible

System ensured AGI could fulfil contract obligations and KPIs

Provided support to cover Client data supply resource shortage

