Case Study
Aesys S.p.A. - Port of Venice

AITEK’S TRAFFIC TECHNOLOGY FOR THE PORT OF VENICE

Road traffic data-acquisition, traffic light and Variable Message Sign management, IP-based video-monitoring: an integrated dashboard-operated supervision system
Efficient management of heavy-vehicle traffic entering and exiting the terminal: this is the main goal of the IT-system set up for Venice Port Authority by Aesys - world leader in communication systems and display technology for transporation. Aitek have integrated two own-brand platforms to develop this real-time traffic control system for Aesys, who have implemented it on the newly-refurbished Customs’ Gate of the Port of Venice:

- **Sesamo**: field device management
- **Upview**: real-time plant status monitoring
- **AiVu**: video-monitoring

A network of sensors detects traffic conditions at the entry/exit gates and on all access roads serving the four terminals.

Vehicle transit inside the harbour is regulated though a set of traffic lights and a Variable Message Sign (VMS) to guarantee the traffic flows smoothly.

### The dashboard

A single-panel web-interface includes all monitoring functionalities needed for a fully-operational supervisory centre: acquired data go to Upview for processing and are displayed on a dashboard that allows operators to monitor traffic conditions in real-time.

The dashboard can also be used to disable automatic control of devices and to switch lights and VMS configurations to manual.

HTML5 technology allows users to access the system through a tablet or smartphone.

### The Video-monitoring system

The solution integrates an IP-based video-surveillance system made up of a network of cameras placed at key points along harbour roads. Device status can be investigated though dashboard-display of live images.

### Customised solutions

Thanks to standard web-tecnology used for data-transfer and maximum integration with third-party applications, UPVIEW is a highly customisable logistics and transportation platform, tailored to the needs of acquiring technical data from end-devices and supervising traffic/transit management systems.

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**Features**

- VMS placed at 4 entry gates
- 6 PTZ cameras to display live images with Pan-Tilt-Zoom functionalities
- Traffic sensors at entry gates, on 4 port-terminal entry roads and at the exit gate
- VMS configuration interface

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**About Aitek**

Aitek is a leading company in the design and implementation of innovative technological solutions. It designs and implements intelligent systems for transportation and traffic, video surveillance for security, digital signage for communications. Since 1986 Aitek has consolidated its presence on national and international markets thanks to its continuing partnership with leading companies and its constant attention to technological evolution. Aitek is one of the few Italian companies to have been awarded by the European Union the prestigious IST Prize for technological production.

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