

Railway Systems

Constant innovation since 1977
has made our experience global.



Experience

Providing complete train status information, from entering the station to boarding a train, makes it easy for your passengers to find the right train and reach their final destination.



Rushing passengers entering the hustle and bustle of a station are looking for instantaneous train status information—whether in a metropolitan terminal or a suburban tram stop. From large arrival and departure boards to small platform displays to on-board multimedia systems, our wide range of displays provide complete trip information to get your passengers to their final destination.

Viewed by millions of people daily on five continents, our displays are prepared for information change around the globe. We are a world leader in communication systems and display technologies, serving the traffic, transit, industrial, and municipal markets. Founded in 1977, today we have over 300 team members dedicated to product excellence.

Explore our brochure to learn more about our railway communication and display systems. If you have more questions, visit www.aesys.com and click on our contact page. We'll be happy to help you find the system that's right for you.



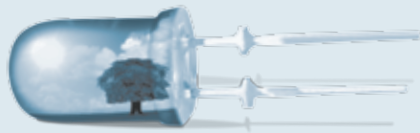
Experiment

To ensure more flexible products, it's necessary to have absolute control. That's why the electromagnetic test is only one of many that we do.



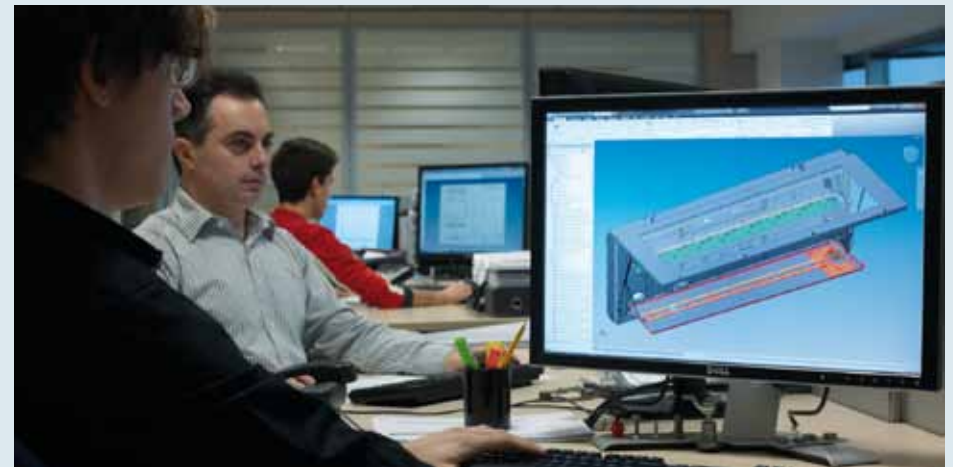
With our technical department, including electronic, mechanical, and software engineers, combined with our full testing laboratory, Aesys teams work together to solve our clients' toughest display and communication challenges. Some of our latest innovations include low power technology displays, filterless ventilation systems for railways that eliminate preventative maintenance, and communication protocols that enhance the modularity and extendibility of our systems.

We carefully test all product prototypes in our state of the art laboratory. We are able to quickly test, modify designs, and retest with the convenience of our on-site facilities. Tests include EMC emission in our 150 m³ anechoic chamber, water resistance, temperature and humidity durability, viewing angle and contrast, and electrical measurement, just to name a few. It is here that we test the latest developments in display technologies and continue asking the big question, "what's next?"



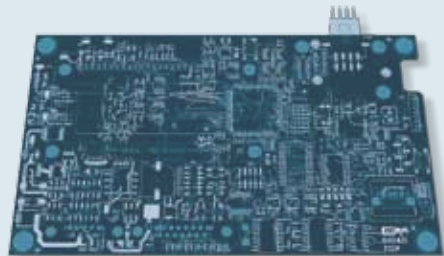
Integrated

Only a continuous collaboration between our teams can create more than a reliable product.



It takes a great team to design and build a display system that can perform reliably over the long run. The product development process begins in the technical office where the engineers coordinate with our laboratory to constantly research and develop the latest display and communication technologies. When a technology is ready for the market, our electronic, mechanical, and software engineering teams coordinate on all the details—from the right electronic control system to the best environmental protection to the most appropriate information flow.

Our production units are carefully integrated with the engineering teams to ensure each project is properly executed. PCBs, or printed circuit boards, are completely assembled in-house using the latest placement machinery. Our mechanical shop produces the metal casings and structures using cutting-edge robot technology. In the final step, our assembly teams integrate all the components and conduct complete quality checks before our display systems are shipped out all over the world.



Reliable

To have maximum care even when we screw in the most common of bolts, it's one of the many small details that goes into building a reliable display.



At Aesys, we design communication systems and display technologies for many applications. Our solutions range from on-board to stationary, from LED to LCD-TFT, and from hardware to software.

Complete In-House Production

we control the entire design and production process—from design to delivery

Optimal Visibility

high quality components and automatic brightness control for consistent visibility

Quick & Easy Maintenance

components are designed for easy removal and spare parts are available for plug and play replacement—allowing a longer lifetime for the entire display

Environmental Resistance

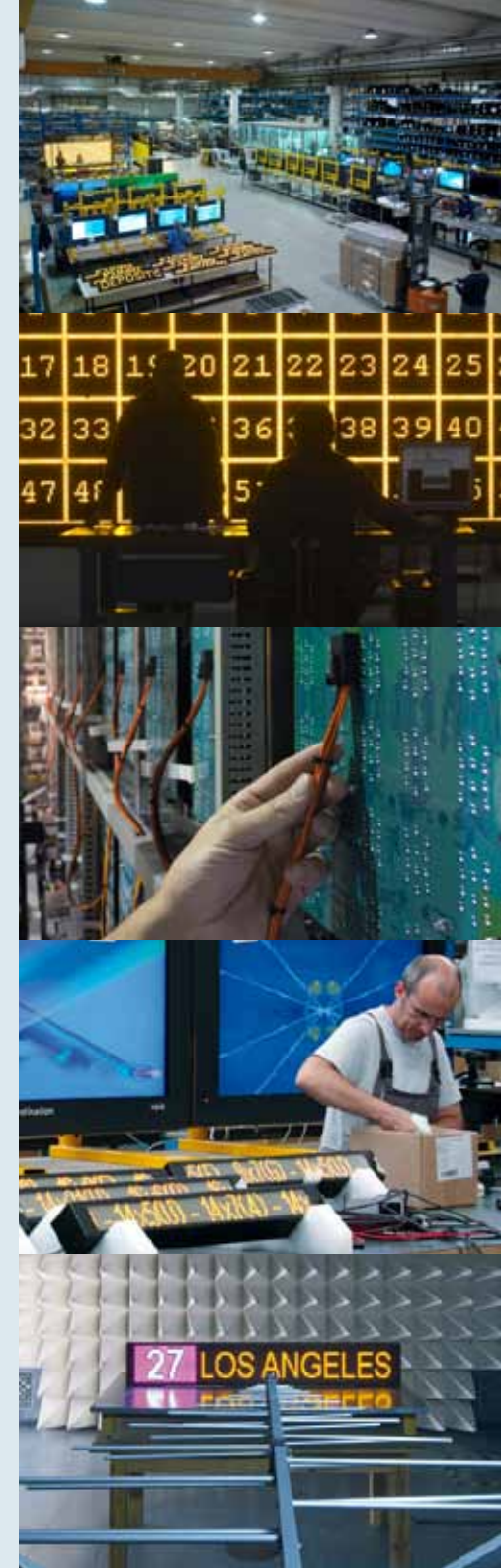
displays are resistant to both vandal and environmental factors, including the capability to operate in extreme temperatures, cold start, humidity, dust, and precipitation

Comprehensive Diagnostics

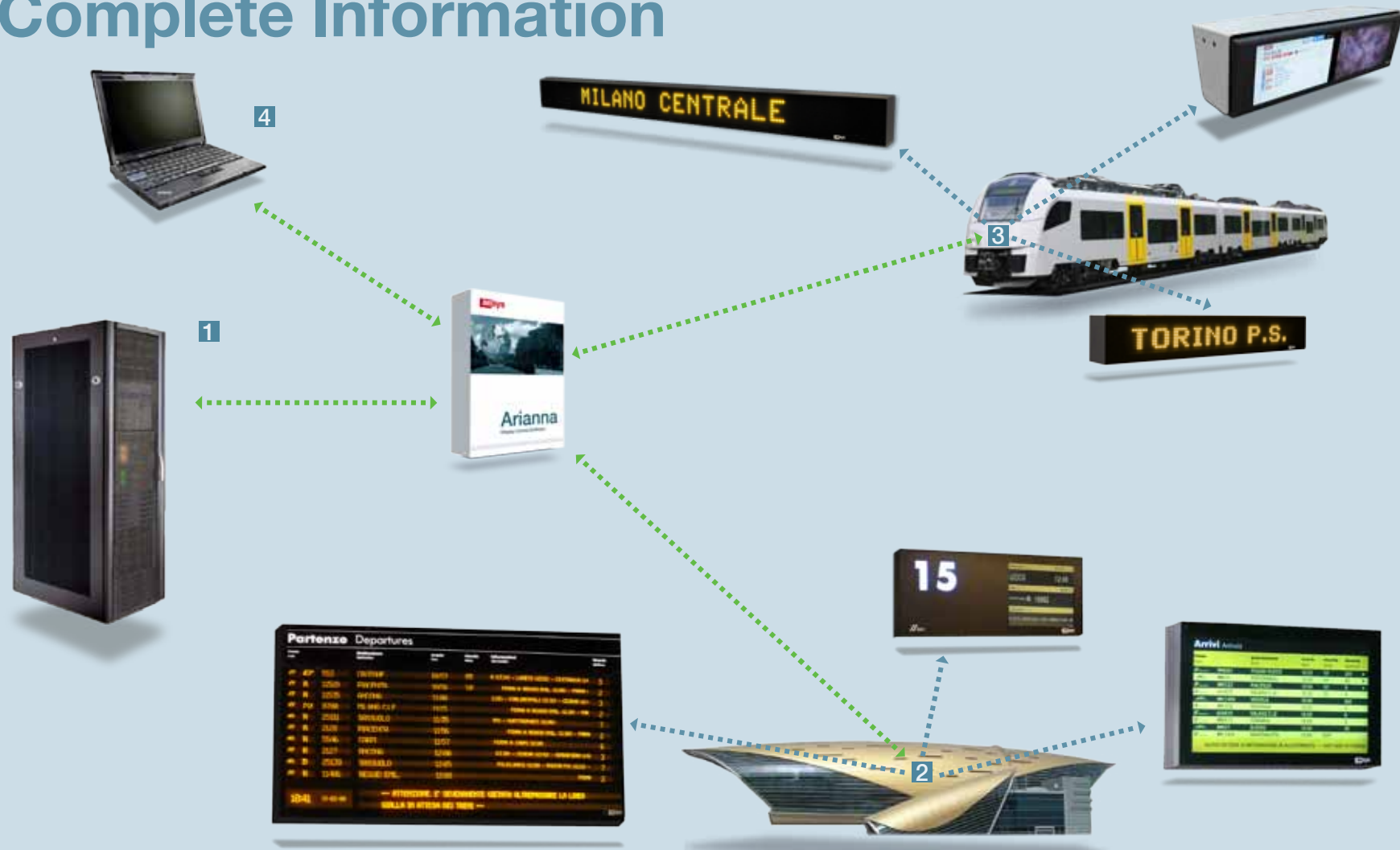
built-in diagnostics can determine the exact cause of most problems, with some displays having dedicated diagnostic control boards

Regulatory Compliance

our products are compliant under many international standards, which may include EN50155, EN50121-3-2, EN50121-3-2, EN50121-4, EN61373, EN60529, EN45545



Complete Information



Our railway displays have been designed to work as a complete system within a larger train management network—whether for metro, tram, regional, or intercity rail. The Arianna display control system is a complete sub-system that seamlessly integrates with the train operation structure to automatically deliver real-time train status and related information to a display. Arianna interfaces directly with the system central server (1) to gather schedule information and train locations. The information is then transmitted to the right station display (2) or to an on-board computer (3) to be sent to each train display, in either LED or LCD-TFT format. Although the system gathers and displays information automatically, an interface in the operative control center (4) allows for manual schedule changes, custom messages, and display diagnostics. For multimedia displays, the screen layout, images, and video can also be controlled.



On-Board Systems



Passengers can have access to a wide assortment of information on-board the train. Not only are they able to view the next stop and trip progress map, but also schedule change advisories and advertisements. Information can be displayed internally in both LED and LCD-TFT. These displays can be controlled by the Aesys Arianna System. Our range of displays includes:

LED Destination Sign

destination signs, available in both full color and bright amber, can provide destination information on the front, side, and rear of the train

Next-Stop Display

our next-stop LED display shows basic next stop information and other simple messages

Multimedia Display

available for just one screen or two screens, side-by-side or double-sided, our LCD-TFT multimedia systems display a wide range of information including next-stop information, a trip progress map, and additional content like advertisements and video



Stationary Systems



Passengers rushing to their train need arrival and departure information fast. Our complete range of station displays provide instant information from entering the station to boarding the train. Waiting passengers can easily view train arrivals and departures, as well as delays, schedule changes, service advisories, and advertisements. The information is automatically delivered to these displays using our complete sub-system software.

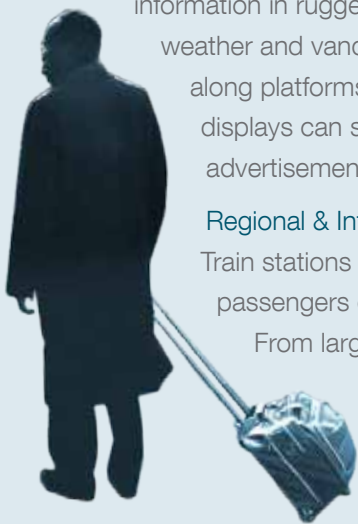
Metro & Tram

Displays for metro and tram stations show limited departure information in rugged casing to protect the displays against weather and vandalism. They can be placed at metro entrances, along platforms, and in connecting concourses. LCD-TFT displays can show more detailed information as well as advertisements.

Regional & Intercity

Train stations serving regional and intercity rail can offer passengers complete information through-out the station.

From large arrival and departure boards in the ticket hall to smaller displays on the platform and many places in-between, both LED and LCD-TFT displays can show detailed or condensed train status information.





No matter in what location or for what use an Aesys station display is installed, they all share similar elements. The vast experience of our engineering team combined with our in-house mechanical and assembly units provide a wide range of reliable displays to meet all your station information needs. All displays are easily maintainable and in some cases, filters and fans have been eliminated to avoid preventative maintenance. Other attributes include:

Complete Station Coverage

we have a wide range of displays for complete station information coverage using different installation methods including mounting from the ceiling, wall, or a floor totem.

LED and LCD-TFT

Displays can show a wide range of information including arrival and departure, schedule changes, and service advisories, composed of LCD-TFT or LED. In addition, LCD-TFT displays can show images and video.

Indoor and Outdoor Protection

While all of our displays can be used indoors, many have the environmental protection needed for outdoor use or places with harsh environments. Some of our railway station displays have faced freezing European winters or hot and humid Indian summers.



Customers

A select list of our customers
is the best advertising we can have.

Interurban

- > Deutsche Bahn – Germany
- > NTV – Italy
- > RFI – Italy
- > SNCF – France
- > SNTF – Algeria

Integrators

- > Alcatel-Lucent
- > Alstom Transport
- > Ansaldo STS
- > Bombardier
- > Thales

Urban

- > APS – Padua, Italy
- > ATAC – Rome, Italy
- > Brescia Mobilità – Brescia, Italy
- > Delhi Metro Rail Corp – New Delhi, India
- > GEST – Florence, Italy
- > ISAP – Athens, Greece
- > London Underground – London, UK
- > Mecca Metro – Mecca, Saudi Arabia
- > Metrocagliari – Cagliari, Italy
- > Metrogenova – Genoa, Italy
- > Metronapoli – Naples, Italy
- > Metropolitana Milanese – Milan, Italy
- > MMRDA – Mumbai, India
- > Namma Metro – Bangalore, India
- > RTA – Dubai, UAE
- > SWM – Munich, Germany
- > TEB – Bergamo, Italy
- > Travel Midland Metro – West Midlands, UK
- > Üstra – Hannover, Germany
- > Wiener Linien – Vienna, Austria



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