

## References



Constant innovation since 1977  
has made our experience global.



TRAFFIC SYSTEM



## Overview

*It's more than 40 years since Dr. Marcello Biava founded **Aesys**, and about 30 years since its first **Traffic Variable Message Sign** was installed to give information during Italia '90 World Cup.*

*Meanwhile, the company has gained an **international experience** in developing the Communication and Visualization Systems for the Public Transport sector, Traffic sector and Smart Cities.*

*Today Aesys devices are spread over around **60 countries** and are being used every day by millions of people seeking real-time solutions to address their daily commuting.*



## DENMARK

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**Since 2011, we have developed several parking guidance systems for the Danish cities of Aalborg, Horsens, Ringsted, Buddinge, Lyngby, Kolding, Billund and Haderslev among the others.**

Drivers looking for an open parking area could reduce not only their searching time but also traffic congestion, by following Aesys directional LED parking signs installed at different points of the city.

Each full matrix sign indicates the name and direction to follow in order to find the closest parking area while the number of available spaces indicated on a bright white LED display is clear at a first glance.











# FRANCE

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**Since 2012 Aesys has installed hundreds of Variable Message Signs for highway and toll application on all SANEF network throughout all the country.**

Toll VMS are full colour full matrix VMS and predefined signs, able to show the payment method available on each lane, while highway VMS feature a pictogram and an alphanumeric part.

In some projects, Aesys worked as main contractor, being responsible for the supply of the VMS, the supporting structure, executing civil and electrical work and installing all the solution.

All VMS are compliant with TEDI LCR communication protocol.

# GREECE

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**Greek highways also count on Aesys Variable Message Signs to inform road users: since 2009 we have equipped toll gates, bridges, highways and tunnels throughout all the Country.**

Compliant with the highest classes of EN12966 norm, they ensure a perfect readability of the message in any weather condition.

In line with Aesys traditional capability to adapt its solutions to each specific installation condition and to satisfy Customers' needs.

The VMSs provided belong to a wide range of types: full colour, alphanumeric, monochrome, full matrix and 5x7 character VMS were installed, besides pre-defined pictogram VMS for tunnel use.

Stylida and Ionia Odos projects are among the main projects already installed on the north of the capital.







# ROMANIA

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**All VMS are compliant with the highest classes of EN12966 norm, and therefore ensure a perfect readability of the message under any weather condition.**

Aesys started its experience on the Romanian market in early 2012 by providing solutions for the A2 highway.

Later on, a system of about 70 Variable Message Signs was installed on the A1 highway (which connects Bucharest to Nadlac, with a total length of 576 Km), followed by 30 full matrix full color VMS on the A10 highway from Sebes to Turda where full matrix full color VMS were supplied.











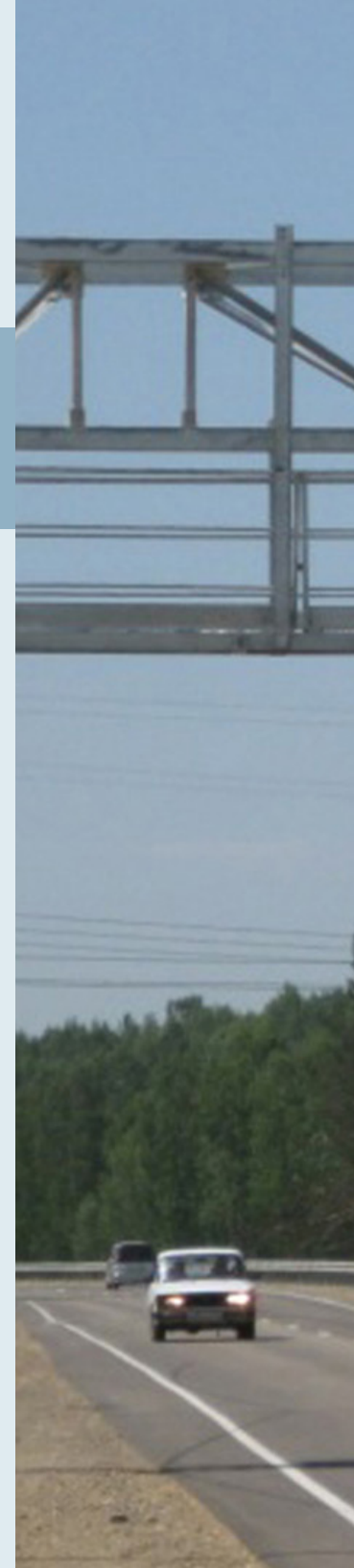
# RUSSIA

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**Recently Aesys has supplied all VMS for the M11 highway section 7 and 8: on this important connection between Moscow and Saint Petersburg full matrix, predefined and alphanumeric VMS were provided.**

Thanks to its long experience in many Russian projects, always challenging due to the extreme environmental conditions, Aesys is now participating actively in the growth of infrastructures in the Russian Federation.

In 2017 Aesys has also provided full matrix Variable Message Signs for a section of M4 Highway. These VMS are able to display pictograms showing the availability of the payment method on each lane in yellow, white or full color.



ВНИМАНИЕ!  
БОКОВОЙ  
ВЕТЕР



# SPAIN

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**Spain is the home of Europe's largest network of freeways and toll roads. Aesys installed more than 2.000 toll Variable Message Signs and highway VMS on the whole Abertis network in the last 8 years.**

Variable Message Signs installed on toll gates guide drivers to quickly choose the right lane according to the payment option they prefer: in this way accidents can be reduced, the transaction can be closed quickly and traffic can keep flowing.

The high optical performances and reliability of the solutions enhance safety at toll plazas and ensure a perfect readability of the message under any weather condition.









# ARGENTINA

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**In collaboration with our partner ATSA, we have delivered hundreds of Variable Message Signs, not only along the private AUSA, AUSOL and AUBASA network, but also on the main public roads around Buenos Aires.**

The VMS types supplied range from purely alphanumeric display of 3 lines with 10 characters each to full matrix line VMS, combined with one or two RGBY pictograms, to the most recent solutions, featuring full matrix active areas.

In the city of Buenos Aires, a system of parking guidance VMS (white LED full matrix type) helps drivers to quickly identify the closest parking area available in the city.







MANTENGA  
SU CARRIL



AL GIRAR  
PRIORIDAD  
PEATON





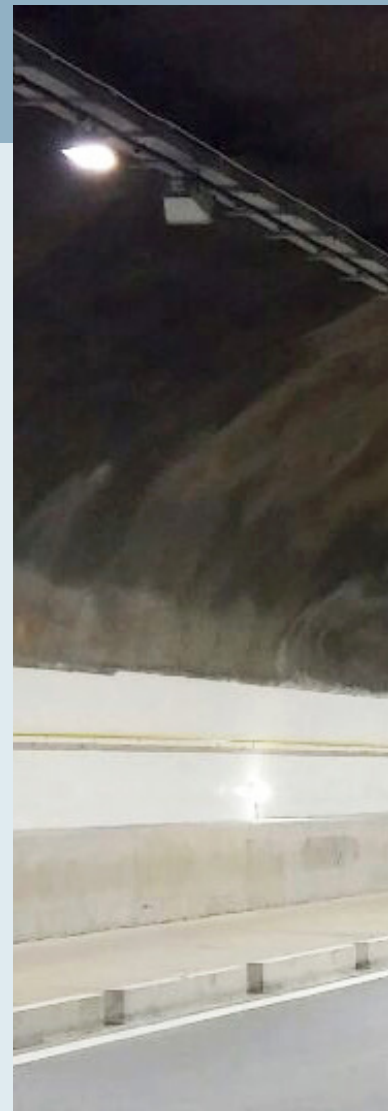
# BRAZIL

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**In 2015 we delivered a system of 14 VMS for tunnel application for one of the most important projects in Brazil, a tunnel crossing the city of Rio de Janeiro.**

The aim of that tunnel was implementing better infrastructures to guarantee enhanced traffic viability, easier access to strategic districts and safety of all road users, modernizing road viability in the city.

The tunnel was built in the area under Concessionária Porto Novo's responsibility, within the scope of a public-private partnership with the Municipality of Rio de Janeiro, enterprise which is unique in this market and in whole Brazil, and which will be responsible for carrying out construction works and providing services to the Porto Maravilha urban operation.







Aesys was chosen between 2012 and 2016 to install hundreds of fixed VMS in the whole Brazilian territory due to its capability to coordinate turnkey projects, that is to say, offering a complete solution in cooperation with local subcontractors and suppliers of civil works and installation services.

All VMS installed in Brazil respond to the most recent federal ANTT and state regulations (like ARTESP), and are compliant to NTCIP protocol.

All VMS are full matrix, the full colour area on the left side of the display is fully mergeable with the rest of the active area in case the pictogram is not used.

Variable Message Signs on trailers were also provided in collaboration with Brazilian suppliers: following an Italian project and adapting the design of the solution to local regulations and to the customers' needs, Aesys supplied more than 70 units of this product.





**USE O CINTO DE  
SEGURANÇA**



# CHILE

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**After the installation of a system of highway and tunnel VMS in Costanera Norte, we supplied arrow-cross and toll fare indicators to many international system integrators active in the Chilean market, completing projects, on Antofagasta, ITATA and Ruta 160 highways among the others.**

In 2014, we started a collaboration with Kapsch TrafficCom Chile: VMS were supplied to Codelco, Autopista Central, Inter-vial and other highways in the Country.

The majority of the systems provided communicate in NTCIP protocol, the VMS installed are composed by a full colour graphic area and an alphanumeric matrix, or were full matrix mergeable VMS able to increase the information capability in case the pictogram part is not used.

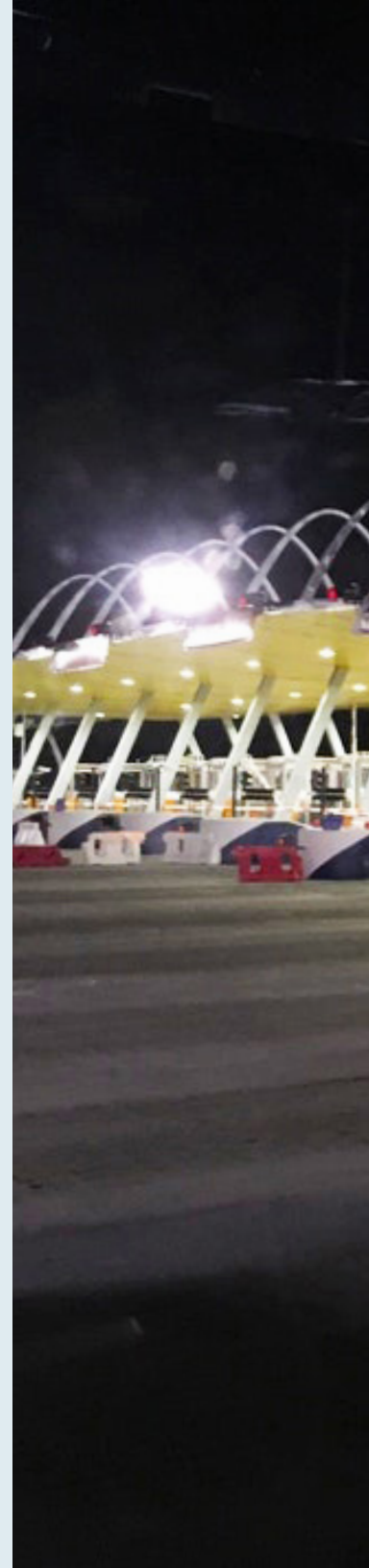






photo credits: Milton A.





# COLOMBIA

**Infrastructures in Colombia are growing, investments are booming and the Country is one of the most attractive markets for ITS projects all over the globe.**

In collaboration with Colombian companies such as Deviteck, Aesys could participate in this important phase for the Country, counting on a trained local after-sales service and spare parts stock in the city of Bogotá.

Aesys successfully equipped Cisneros-Loboguerrero and La Linea tunnels, besides a network of highways such as Concesion Costera and Alto Magdalena, providing both fixed and mobile Variable Message Signs. Again, POB toll road, which crosses the Department of Cundinamarca skirting the city of Bogotá, is equipped with alphanumeric and graphic Variable Message Signs.





Trabajos en  
La vía!!





# MEXICO

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**Mexico invests in green and low power photovoltaic solutions more than other countries.**

In the last five years Aesys supplied Variable Message Signs belonging to the most advanced generation of Ultra Low Power Variable Message Signs.

All VMS feature a full colour area for the visualization of pictograms of the Road Code, and an alphanumeric part where the message can be displayed on a full matrix monochrome amber area .





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RESPECT  
SPEED LIMITS  
WHEN DRIVING

NEWELL  
HIGHWAY



# MOROCCO

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**Located in Morocco at the heart of the Strait of Gibraltar, Tanger Med is set to become the largest port in Africa.**

Currently, the facility is prepared to handle 700,000 trucks and 1,000,000 cars annually.

To get these vehicles quickly through security and to the right boat, we delivered a system of displays including lane control and both large and small VMS with full line matrixes to show texts in both French and Arabic.

The displays are built to withstand the humid and salty conditions of the coastal location.

Aesys products are also well known at ADM toll plazas signs which are equipped with VMS showing the available payment method on each lane.



















# LEBANON

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**Aesys experience in Lebanon started in 2015, when we provided full matrix Variable Message Signs for the city of Beirut.**

The signs were installed on the highway leading to the Beirut Rafic Hariri International Airport and are “mergeable” signs: if the graphic area is not used to display pictograms, it can be used to integrate text to the alphanumeric area, increasing therefore the total number of characters shown.



## QATAR

**Doha, Qatar's capital and fastest growing city, has always represented a big challenge for Aesys, both for the state of the art technology required and for the extremely high temperatures of the Country.**

Aesys is proud to have been officially approved as a manufacturer by Ashghal, the Public Work Authority, and since 2015 many installations across the city have been completed.

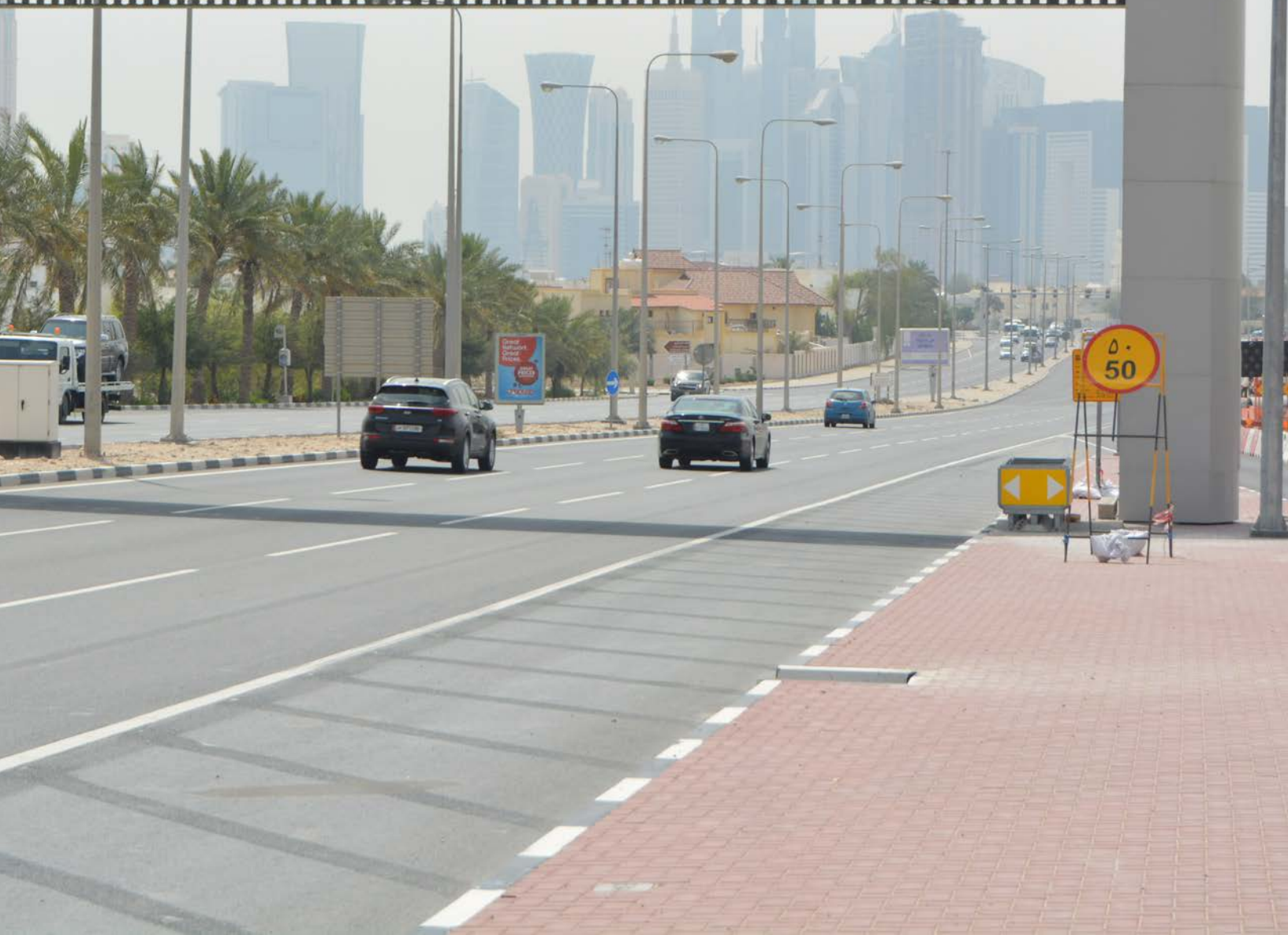
Thousands of full matrix full color Variable Message Signs have been provided for Greater Doha project, Al Wakrah Bypass and Doha Industrial Area.







خفف السرعة  
اترك مسافة آمنة  
REDUCE SPEED  
KEEP SAFE DISTANCE



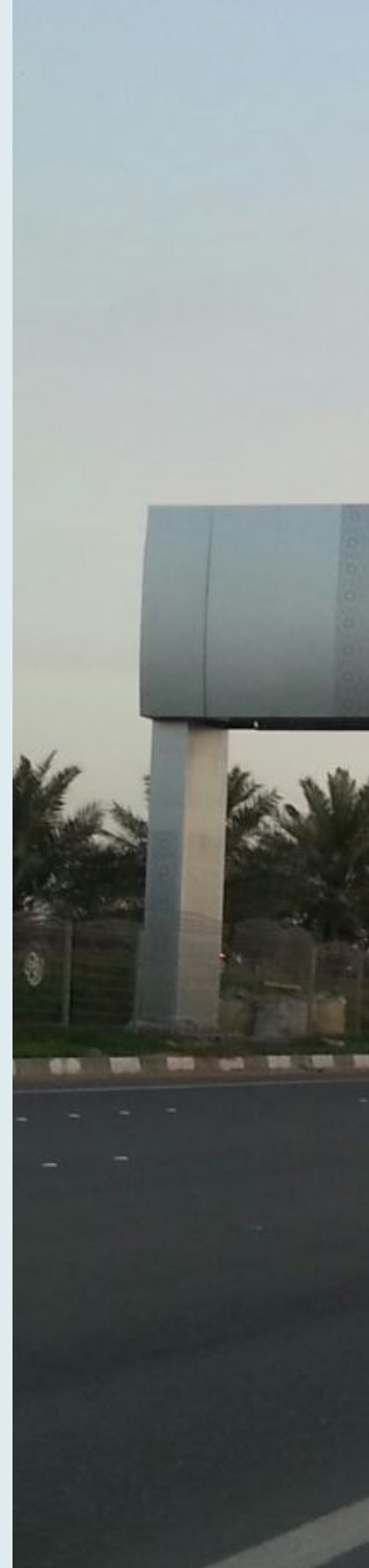
# U.A.E.

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**Among the different types of Variable Message Signs installed in the city of Abu Dhabi and along the highway leading to Dubai, more than 15 are as big as 9m x 3m.**

Manufacturing such a huge VMS represented a big technical challenge: all the prototypes had to undergo a long period in climatic chambers and solar simulators, to guarantee sun Aesys traditional performances once the VMS were installed on the field.

All VMS part of this project were full matrix and full color displays, certified in the highest EN12966 classes and designed to stand the extremely aggressive conditions of the country.







دائرة النقل  
DEPARTMENT OF TRANSPORT



# REFERENCES

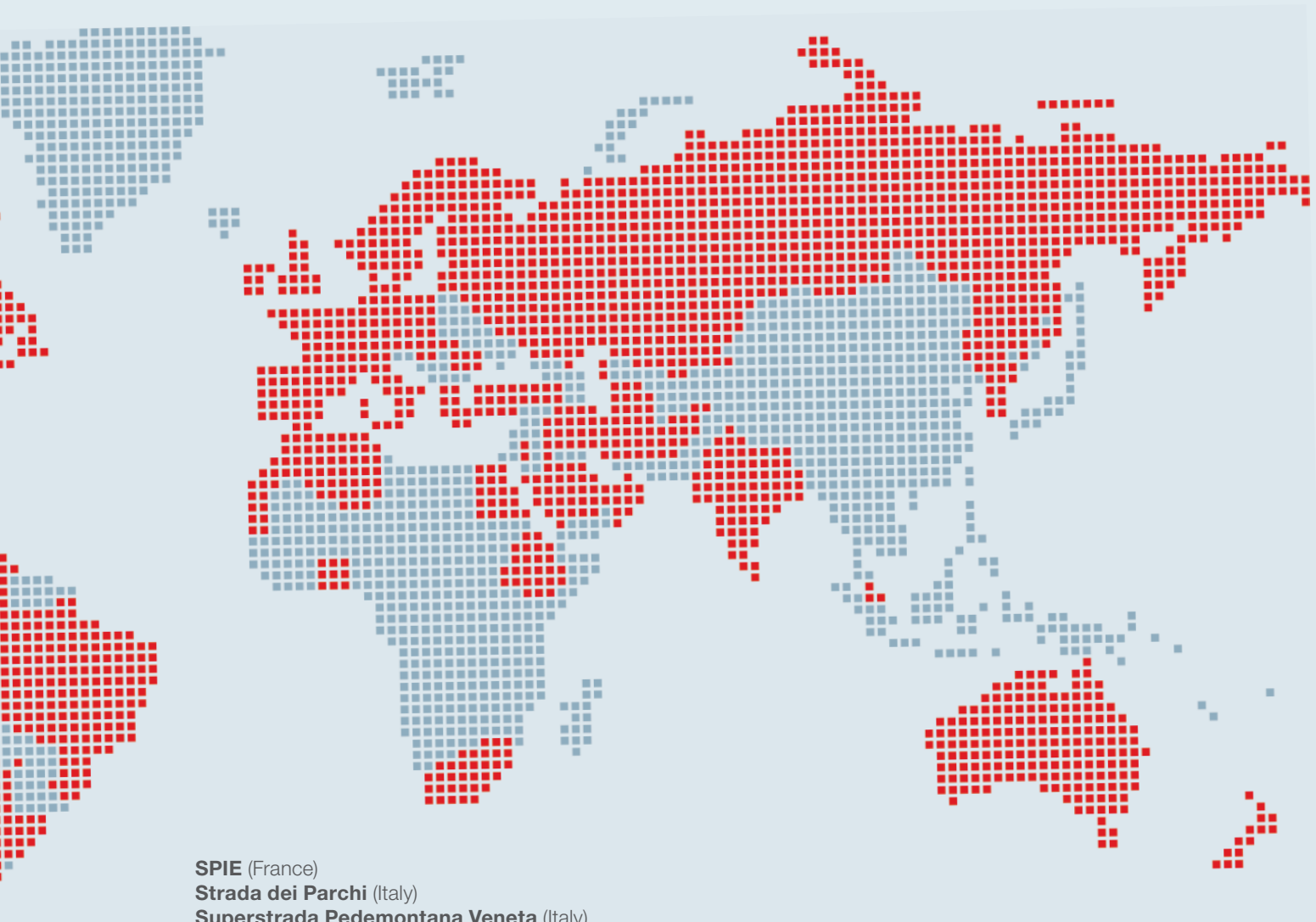
A select list of our customers is the best advertising we can have.

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**AIC** (Morocco)  
**Algosystem** (Qatar)  
**American Traffic** (Argentina)  
**ANAS** (Italy)  
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**ITS Teknik** (Denmark)  
**Kapsch TrafficCom**  
**Key Technical International / KTC** (Qatar)  
**LAMSAC** (Peru)  
**Milano Serravalle - Milano Tangenziali** (Italy)  
**Mota-Engil** (Portugal)  
**Nea Odos** (Greece)  
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**Raccordo Autostradale Valle d'Aosta** (Italy)  
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**Tecnositaf** (Italy)  
**Tecsidel** (Spain)  
**Thales**  
**Triunfo Transbrasiliana** (Brazil)  
**Tunnel del Frejus** (Italy-France)  
**Tunnel del Mont Blanc** (Italy-France)

## Global Footprint

Aesys is present in more than 60 countries.

# OFFICES

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Mechanical  
Production

Technical Office  
and Assembly

Assembly

Electronic  
Production

High production capability 26.000 sqm





## Headquarters

### Italy

Via Pastrengo 7/c  
24068 Seriate, BG  
+39 035 2924111 tel  
+39 035 680030 fax

## Offices

### Brazil

Avenida Senador Casimiro da  
Rocha 994 - Mirandópolis  
04047-000 – São Paulo/SP  
+55 011 3938 8654 tel  
+55 011 3938 8654 fax

### Germany

Friedrich-König-Str. 3-5  
D-68167 Mannheim  
+49 (0) 621 18192720 tel  
+49 (0) 621 18192722 fax

### India

238/1A Vanagaram Road  
(Nageswara Rao Road) Athipet  
Ambattur Industrial Estate  
Chennai – 600 058

### United States

27 Bland Street  
Emerson, NJ 07630  
+1 201 871 3223 tel  
+1 201 871 3239 fax

### Spain

Ikastola Kalea 2, Bajo  
48700 Ondarroa (Vizcaya)  
+34 94 683 2369 tel  
+34 94 683 2931 fax

## Companies of the Group

### France

#### SEIPRA SCORE

6 Chemin de l'Industrie  
69570 Dardilly  
+33 (0)4 37642041 tel  
+33 (0)4 72850633 fax









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via Pastrengo 7c - 24068 Seriate - BG - Italy  
T. +39 035 2924111 · F. +39 035 680030 · [info@aesys](mailto:info@aesys).

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