

BRISA [Portugal]



Managing motorways for people

Brisa Auto-Estradas de Portugal, founded in 1972, is the largest Portuguese motorway operator and an important player in the traffic sector in Europe. Brisa currently operates on a concession basis a network of 11 motorways constituting the main Portuguese road links, connecting the country from north to south and from east to west.

The total length of motorways in the network, taking into account its current configuration, is more than 1100km. Brisa owns various companies specializing in motorway services all aimed at improving the quality of the service provided to customers and increasing in its own operating efficiency. Brisa is one of the largest Portuguese companies on the stock exchange, and is included in PSI20 and the Euronext 100 index.

Brisa is known internationally for the deployment of the automatic pass-through toll systems. Brisa is, in its own right, one of the largest Portuguese companies and a world reference in its sector of activity.

The Operational Coordination Center entered into operation gradually in 2004. The target was to guarantee new levels of road safety on the Brisa network, better traffic management, as well as greater network flexibility. These targets have been achieved and exceeded as the center also provides comprehensive information on traffic conditions on motorways and therefore generating greater capabilities for the co-ordination of the roadside assistance and the management of maintenance works.

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The implementation of the Carcavelos Operational Coordination Center (COCC) is a voluntary contribution by Brisa to the promotion of road safety in Portugal. The COCC has its own set of objectives being to ensure the integrated operational management of the Brisa motorway network, to increase the effectiveness of traffic management, to develop the relationship with users and to guarantee an even higher level of safety.

Increased operational efficiency

The Operational Coordination Center is equipped with the state-of-the-art equipment and will direct the activities performed at the 14 regional Brisa operational centers distributed throughout the country. This, in turn, increases effectiveness & operational efficiency and reducing costs. Brisa centralized the activities of the regional centers in the enlarged main control center and set up a CCTV system and communication network of 12GB to be able to support the regional teams in

all their activities such as breaking the network, putting fiber, cameras, VNS, counting and classification stations.

The communication network was one of the basic requirements to secure the required quality level. This is an example of technological innovation at Brisa that will also guarantee the provision of information in real time to Brisa motorway network customers and help increase maintenance efficiency.





In the future, automatic incident detection systems will record images that will allow Brisa to respond immediately to any incident that may occur.

State-of-the-art video surveillance over IP

Technology was a major consideration in the development of Brisa. Video images are captured by the approximately 500 legacy analogue Pan-Tilt-Zoom cameras and are directly digitized, encoded by General Electric



(VisioWave) equipment and compressed via wavelet technology. The wavelet video streams are then transported across the IP network and can be monitored in local operational centers or in the central operational coordination center. Barco's iTRAFFIC integrated display solution provides integrated visualization of the total Intelligent Transportation System.

iTRAFFIC is designed to provide a control center with a real-time collaborative work experience for monitoring, response dispatching/coordination, access/flow control, recording and overall systems control for twenty-four hours a day, seven days a week operations. Barco's solution at the OCC' by 'Barco's OVERVIEW display solution is an integral part of the operation.

Barco's patented stitched technology provides operators with a virtually seamless image on a 13.33 m x 3 m (total resolution of 10420 x 2304) screen, almost invisible to operators. The display wall consists of a flexible and scalable OVERVIEW CPG67 display system in a 10x3 configuration controlled by a Barco TRANSFORM A controller enabling the simultaneous monitoring of 96 live video images. The controller is designed with high bandwidth backplane chassis architecture.

Therefore, the controller can serve as a universal decoding platform, capable of accepting both analog and streaming video input signals. The TRANSFORM A interfaces with other third party systems through the open API.



Rui Camolino, Director, Brisa :

Thanks to a long-term relationship and trust in Barco, Brisa decided that Barco had all the ingredients to realize this impressive project. “



Central operational control center

The COCC manager knows everything that is going on in the regional control centers. The COCC manager also makes sure the appropriate procedure is followed and decides which actions should be taken by the assistance team such as calling an ambulance, etc. Each section on the display wall represents a region. Each operator controls 2 regional control centers. In the center of the display wall you can see indications such as MSS, specific messages, road works, and accidents to name just a few all on a map.

The map also indicates the vehicles that are patrolling the motorways and assistance cars with GPS systems. This way the main control center knows where exactly the assistance cars area located. Brisa chose to invest in this large display wall because together with Barco's wall management software APOLLO, all operators need to have the same information in case of an incident.

After careful consideration and analysis, Barco was mainly chosen because of its pioneering technology and reliability. Mr Rui Camolino, Director at Brisa, said "Barco was able to offer this unique solution needed to accomplish the goals of Brisa. Thanks to a long-term relationship and trust in Barco, Brisa decided that Barco had all the ingredients to realize this impressive project."

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