

# Arteris, Brazil

Only the best visualization is good enough to supervise Arteris' highways

We believe that the performance and versatility of the Barco video walls - including their hassle-free maintenance - will greatly help us.



Ricardo Casagrande,  
System Manager - Arteris



#### Barco solution and services:

- 24 x OVL-815 projection module
- 16 x OVL-715 projection module
- 5 x NGP-224 3D video wall controller
- 5 x PWS 101 3D workstation
- 5 x BCMC controller

#### Why Barco:

- Durability and robustness of the equipment
- Local support services
- Easy integration with third-party solutions

With a staggering 3,250 km of highways under its supervision, Arteris S. A. is one of Brazil's largest toll road concession holders. Through its nine concessionaires, the public services company manages highways located in the states of São Paulo, Minas Gerais, Rio de Janeiro, Paraná and Santa Catarina.

To efficiently perform its tasks, Arteris operates nine Operational Control Centers (CCO) that monitor all the highways, 24/7. When Arteris started deploying Intelligent Transportation System - ITS - technology in the five CCOs of its federal concessionaires, it negotiated high-end Barco video walls to support traffic monitoring. The devices help Arteris fulfill its mission: assist in ensuring efficient and safe traffic flows.

**BARCO**

Visibly yours



To monitor traffic in the 2,000 km of federal highways that connect Brazil's major cities and regions, Arteris installed well-organized Operational Control Centers at the seats of its five federal concession holders. In 2010, Arteris started deploying a state-of-the-art Intelligent Transportation System (ITS) in these federal concessionaries, similar to the technology already installed at the four state concessionaries of São Paulo. The idea was ambitious: to have the best, most advanced solution in the country - and preferably in the world too.

The reasons to opt for Barco include the technical qualities of the video wall as well as the local support offered by the Barco Brazil team.



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### Simply the best

"We invested in 850 CCTV cameras, 12 road weather stations, 30 traffic counter stations and 60 variable message signs (fix and portable) to provide road users with information," explained Ricardo Casagrande, System Manager at Arteris. "To manage that information, we chose a fully integrated system consisting of hardware equipment, software and visualization." After considering several rear-projection and LED display solutions, Arteris selected Barco's OVL-715 and OVL-815 display systems. The reasons to opt for Barco include the technical qualities - image quality, durability, reliability and robustness - of the video wall as well as the local support offered by the Barco Brazil team.

### On the road, together

In the course of three months - from initial idea to actual rollout - all five control rooms were equipped with their own high-end video walls, thus offering operators a view on the roads. In the Autopista Planalto Sul, Autopista Fluminense and Autopista Fernão Dias control centers, Barco installed its distinctively bright OVL-815 LED projection modules. To meet the requirements of the OCCs for Autopista Regis Bittencourt and Autopista Litoral Sul, 70-inch wide OVL-715 modules were chosen. All control centers have been equipped with the NGP-224 3D display controller and the PWS-101 workstation to ensure optimum user control and flexibility.

### A crystal-clear view

Operators can now view images from over the 800 CCTV cameras and monitor vehicles traffic flows on the ultra-bright LED-lit video walls. "They can easily zoom in on the details of the images provided by the monitoring cameras, whenever needed," Casagrande explained. "Also, they can visualize windows of software applications, for example from their own desktop, control the variable sign messages and watch the weather forecast to anticipate traffic conditions, etc." Aligned with the management system, a modern system of automatic incident detection through images issues alarms to the control centers operators, so they can trigger the necessary resources quickly and control the occurrence in order to return the highway to normal traffic in reduced times.

"We believe that the performance and versatility of the Barco video walls - including their hassle-free maintenance - will greatly help us make the highways under our administration the most modern and secure in the country," Casagrande concluded.