

Panama City, Panama

Kapsch's contribution to the city's mobility

For the year 2010, the Authority of Transit and Land Transportation was seeking to significantly improve travel times on the main roads of Panama City and give a more modern and technological sense to urban mobility to meet the city's needs.

EcoTrafIX™ solution as a platform for optimized mobility management and operation

As a consequence, Kapsch was awarded the contract for the study, design, equipment, installation, operation and preventive and corrective maintenance of a centralized system of traffic lights in Panama City.

Scope of the Project:

- Design, installation, commissioning of 180 traffic light crossings distributed throughout the city. Design, engineering and construction services for the city's traffic monitoring control center.
- Centralized Mobility Management Software
- Information broadcast system through variable message panels
- Vehicle detection system through physical loops
- CCTV camera control system to support traffic operation and maintenance activities
- Control Operation Services
- Preventive and corrective maintenance services of the installed systems
- Training of ATTT staff in maintenance and operation

With this scope, real and objective traffic data was collected through more than 1,200 detectors installed, ensuring highly reliable data quality, which together with traffic engineering supported by on-street technicians and extensive calibration of each of the 180 intersections helped to achieve high levels of efficiency in the city's mobility management. This added to simulation systems, which contributed to a continuous day-to-day improvement in travel times on the city's main roads.



2nd Phase: Master plan the road network reorganization of Panama City

In 2011 Kapsch was contracted for a second phase of the project to improve mobility in Panama City and to provide the ATTT with information and intelligence in order to continue adding efficiency to the traffic control. A contract was signed for the supply and implementation of the traffic light system extension and intelligent traffic systems for Panama City, as part of the project master plan for the Road Network Reorganization of Panama City: "Studies, designs, construction and financing of works for the Via Brasil corridor - Section II."

Project Scope:

- Expansion of 30 Traffic Light Intersections
- Relocation and modernization of 18 Traffic Light Intersections
- Traffic Engineering Services
- Upgrade and expansion of CCTV System, with 70 new cameras
- Expansion of the Variable Messaging Panel System, with 35 panels.
- Travel Time Calculation System, including 140 Wifi / Bluetooth Sensors
- EcoTrafIX™ Expert Traffic Management System
- Communications System
- Maintenance and operation of Traffic Control System Control
- Center upgrade

The Challenges:

- Improving travel times on the city's main roads.
- Modernizing the city's mobility management technology.

The Solution:

Supply and implementation of the traffic light system extension and intelligent traffic systems for Panama City, as part of the project.

Kapsch also remodelled the city's control and monitoring center and provided an upgraded version of the EcoTrafIX™ Traffic Management and Control System to integrate an Adaptive Real-Time Traffic Control of the Traffic Light System.



The Added Value

- A management platform that makes it possible to make decisions that improve traffic and manage the maintenance of all field equipment.
- A modern Traffic Control Center that allows for integrated management of all systems