




Smart system
for mobility
operations.



The complexity of an urban transport operation requires more technology and intelligence to achieve quality, efficiency and profitability.

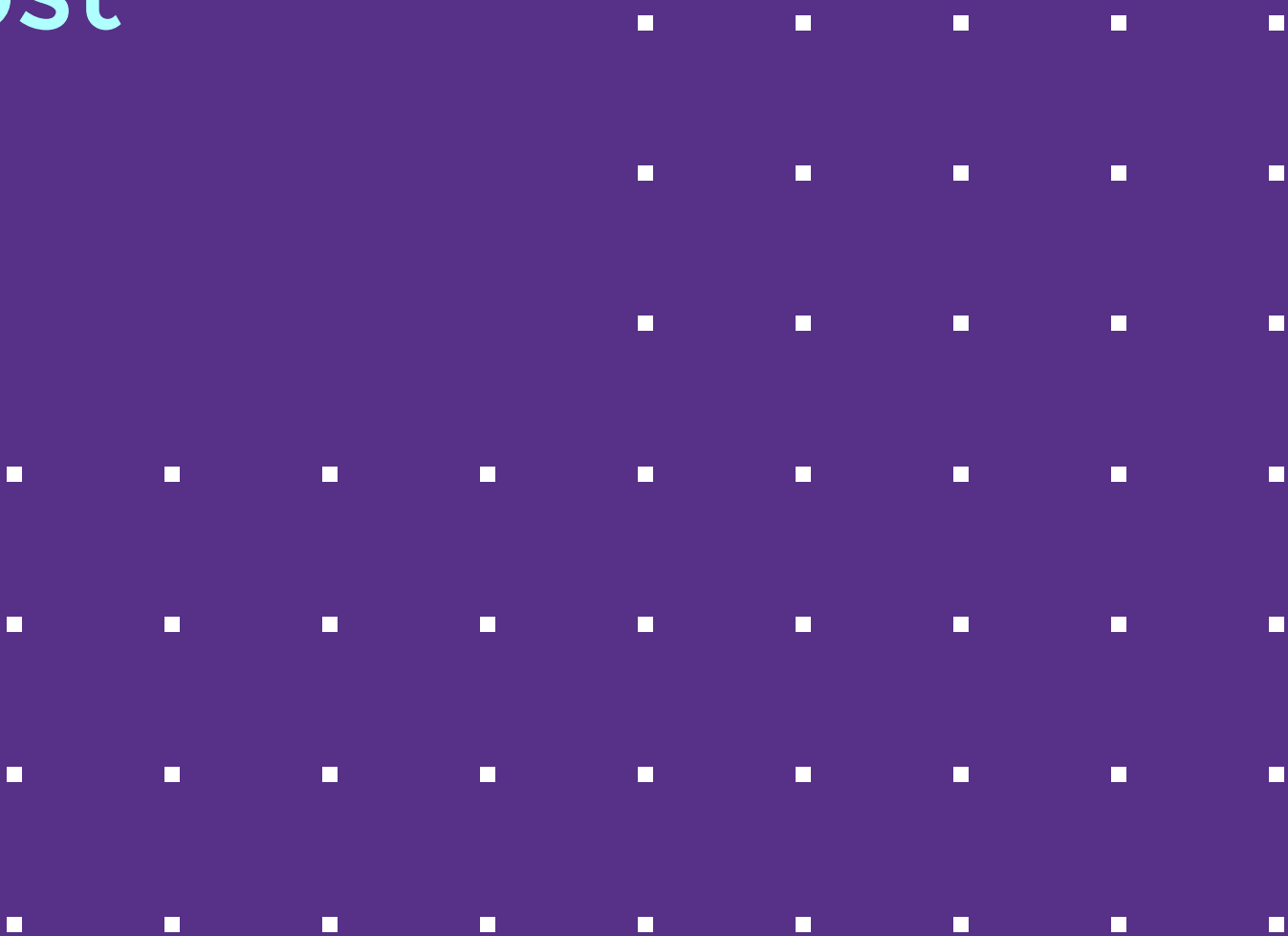
It is in this context that Cittamobi, a company with expertise in solutions for urban mobility, launches Hub Cittamobi, a platform created to centralize control of the operation intelligently, integrating all systems and devices.



The backbone

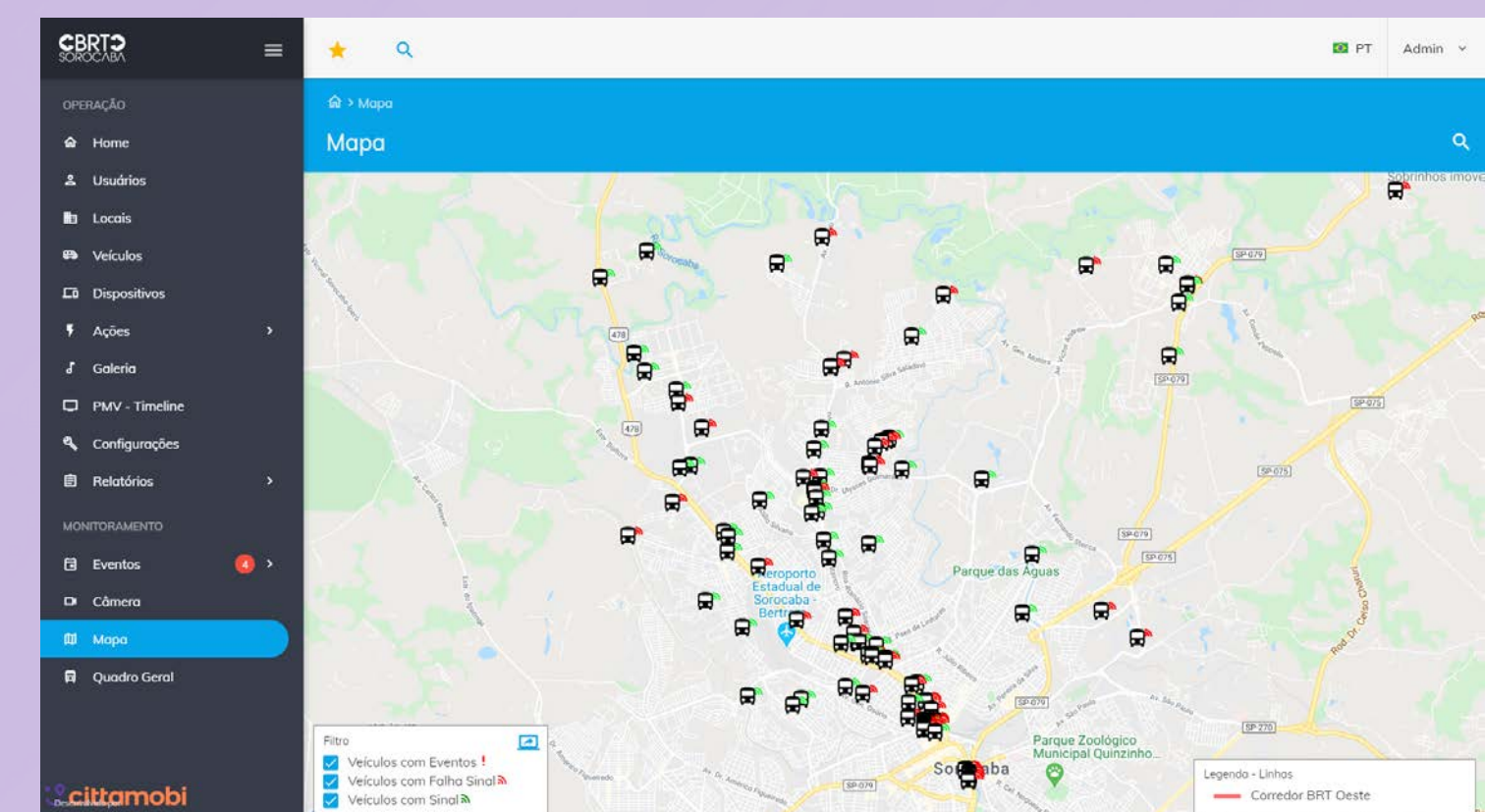
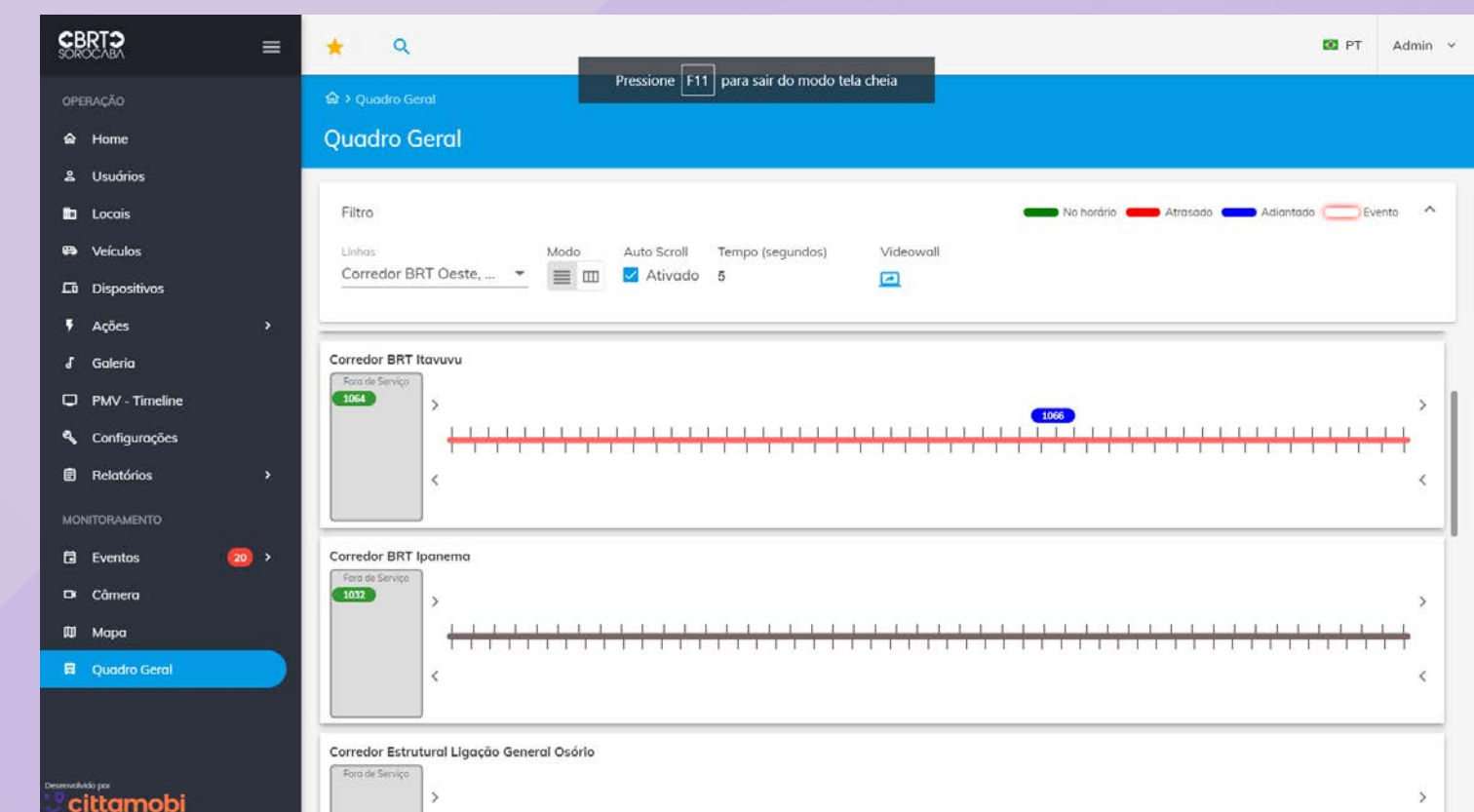
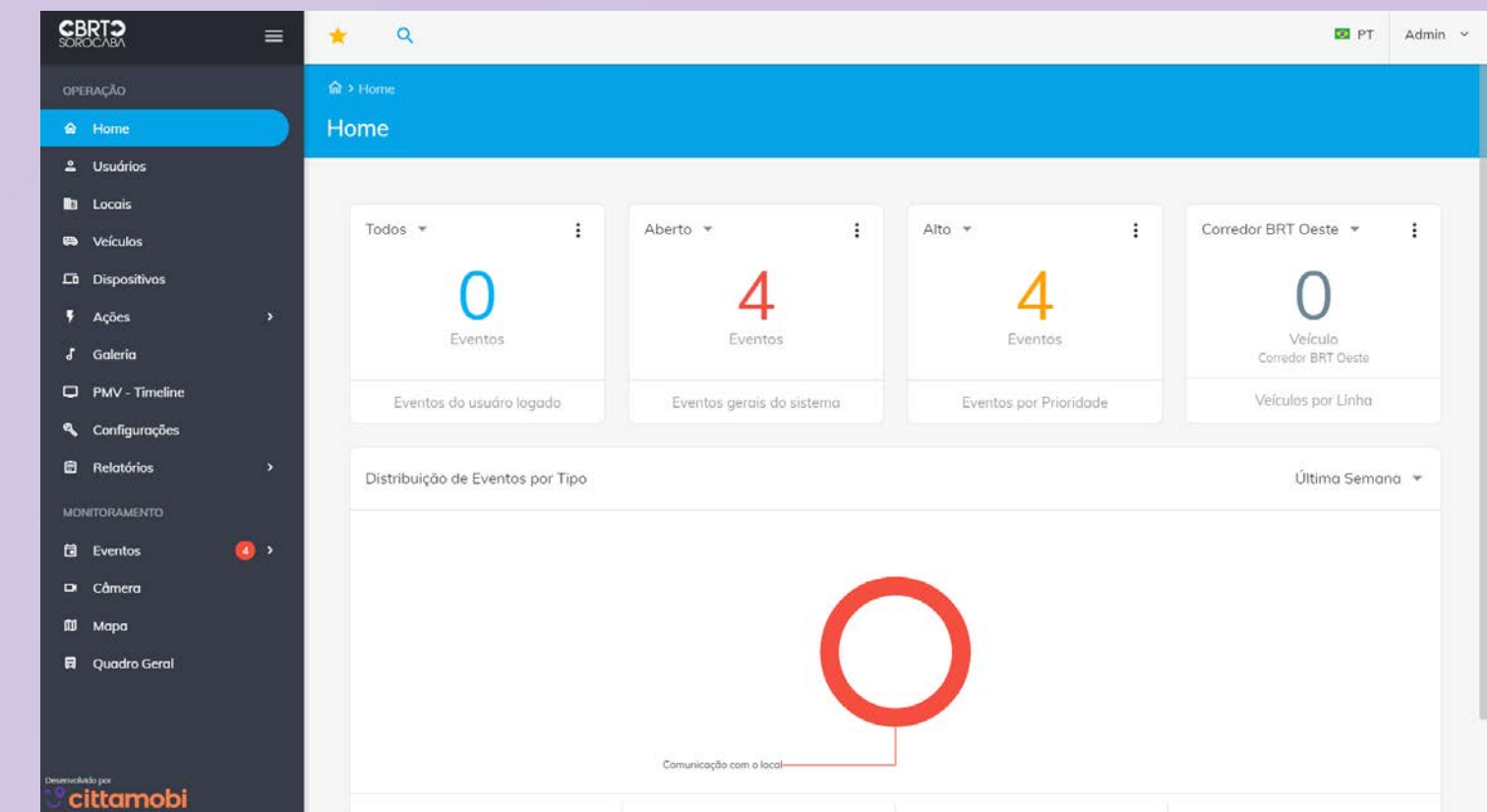
Hub Cittamobi was created to be the backbone of an urban mobility operation,eliminating multiple screens and lack of integration, generating more information in a simple and objective way.

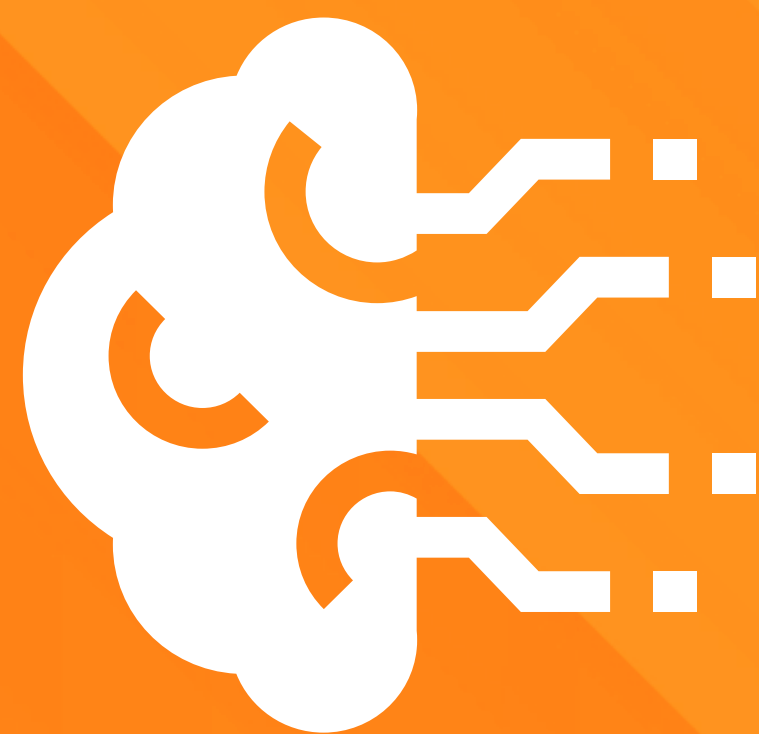
Outcome:
efficiency and cost
reduction.



Main features

- Integrates the various systems in a single panel, making the management easier and more efficient.
- Connects devices, such as cameras, turnstiles, sensors, audio and video systems, variable message panels (VMP), WiFi and more.
- Detects problems and broadcasts alerts.
- Allows control by an operation center as well as on premises through tablets or smartphones.
- Reduces operational costs as it requires fewer employees on premises and allows us to intervene remotely.





Understanding the benefits of Hub Cittamobi





Bus accident. Hub Cittamobi accesses the images of the monitored area and makes the footage available to the authorities.



Equipment malfunction. The air conditioning of a vehicle, the WiFi of a bus stop, the station door. Hub Cittamobi detects the malfunctioning equipment and generates an alert in the system.



Real time information for the user. Embedded sensors in vehicles collect accurate location data that allow the system to provide the most valuable information to the users through panels installed throughout the environment: inside the buses, at bus stops, stations and terminals.



Delayed bus lines. Hub Cittamobi interconnects with traffic lights and controls them in a smart way to mitigate the delay.
UNDER DEVELOPMENT.

Hub Cittamobi is already operating at BRT Sorocaba, a case of innovation and pioneering in Brazil.

BRT Sorocaba stands out in the current urban mobility scenario through its business model and the technological solutions.

In the Hub Cittamobi 16 different systems work seamlessly, monitoring and connecting vehicles, terminals, stations and bus lanes, and also managing turnstiles, ticketing, cameras, door sensors, TVs and sound systems.

With all the gathered data, the ITS technology receives the information, processes them and then interacts through texts or audio commands and messages.

Everything happens from a single remotely controlled interface, requiring fewer operators at the stations and providing more autonomy to the system.



System features



INTEGRATED DEVICES

Platform

- Standalone or cloud
- Web-based
- Multilingual

User Management

- User permissions by modules and actions
- Segmentation of monitored routes per user

Multimedia

- Media content management
- Online publishing in media panels
- Supports audio, video and text
- Media gallery
- Content timeline creation

Monitoring

- Real time monitoring
- SCADA (Supervisory Control and Data Acquisition) monitoring of stations and terminals
- Device management
- Scheduled commands
- Live feed camera view
- Recorded images searches
- Floor plan with sectorization of locations
- **Integrable devices:**
 - turnstiles;
 - validators;
 - cameras;
 - LED panels;
 - multimedia panels;
 - others;
 - sending audios to monitored locations.

Event management

- Equipment malfunction alerts
- Administrative events
- Events history
- Document attachment
- Operation script
- Custom events
- Event count
- Event geolocalization
- Action events (where operator action is required)

Video wall

- Customizable view (3x3, 4x4, 5x5)
- Position fixing of important cameras
- Map with vehicles positions
- Linear synoptic table
- Video wall integration with the operator
- Main events screen

Fleet management



- Real time vehicle tracking
- Linear monitoring synoptic table of lines and services
- Estimated time of arrival at stations and vehicles

Reports



- Device alerts
- Availability
- SLA
- Ticketing

FUTURE INTEGRATIONS

- Traffic lights
- Passenger count
- Vehicle telemetry
- Driver behavior analysis (based on telemetry)
- App with video and voice integration (to view the pictures and sounds of an operator)



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