

CASE STUDY

Londrina's Municipal Transit and Urbanization Company (CMTU) – Brazil



Londrina's Leap into Smart Urban Mobility with Real-Time Intelligence for a Better Passenger Experience

Londrina is stepping boldly into the future of public transportation. In partnership with Clever Devices and MAIOR, the city has implemented a cutting-edge Intelligent Transportation System (ITS) across its bus network. This project, developed with CMTU, Londrisul, and TCGL, unifies service planning, real-time monitoring, and dynamic passenger communication, delivering a smarter, more predictable travel experience for residents through advanced technology and real-time visibility.

CHALLENGE

Before the ITS deployment, Londrina's public transportation system struggled with fragmented operations, manual planning, and limited tools for managing service reliability. With two bus operators and a growing urban population, the need for an integrated control and planning solution was urgent. Real-time responsiveness, accurate passenger information, and centralized data visibility were key to overcoming these challenges.

Summary



Customer

Londrina's Municipal Transit and Urbanization Company (CMTU)

Londrisul and Transporte Coletivo Grande Londrina (TCGL)

Londrina, Paraná, Brazil

About CMTU

- 384 buses
- 2 private bus operators (Londrisul and TCGL)
- 1 municipal transit authority (CMTU)

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SOLUTION

Real-Time Intelligence and Smart Planning in One Unified System

The City of Londrina implemented a fully integrated ITS platform that bridges real-time operations and long-term planning—enhancing efficiency, service reliability, and the passenger experience. Key solutions deployed:

CleverCAD® (CAD/AVL): Real-time fleet tracking and operational control to manage delays and route deviations.

BusTime®: Delivers real-time arrival info via onboard audio and terminal displays.

CleverVision®: Dynamic screens providing next-stop alerts and service messages across buses and terminals.

Operational Intelligence Center (Ciop): Centralized control room with a live-data videowall for proactive decision-making.

MAIOR Suite: Planning and scheduling tools for optimized routes, crew shifts, and service reliability. Includes real-time control and scenario simulation for rapid response and adaptability.

RESULTS

Predictable and Reliable Service Delivery

The combination of CAD/AVL and real-time monitoring has allowed CMTU, Londrisul, and TCGL to proactively manage services. By detecting early arrivals, delays, and disruptions, the agencies can act quickly and maintain a high level of service reliability city-wide.

Empowered Riders with Real-Time Info

Passengers now have access to accurate arrival times and next-stop announcements through the BusTime® system, as well as trip planning tools and free Wi-Fi. These features not only enhance convenience but also elevate passenger trust in public transport.

Operational Excellence Through Planning Tools

Using MAIOR's intelligent scheduling and performance monitoring capabilities, Londrina's agencies can simulate scenarios, optimize timetables, and adapt operations dynamically. This has significantly reduced inefficiencies, improved coordination between the two operators, and increased overall system transparency.



CLEVER COLLABORATION

Through its partnership with Clever Devices, the city of Londrina—home to over 580,000 residents—has deployed a fully integrated ITS and planning system. This smart mobility initiative enhances real-time control, optimizes operations, and improves the passenger experience, setting a new standard for public transport in Brazil.