

Advancing electromobility in Latin America: Eletra's success with Consat Telematics



Project at a glance:

Project name:	Eletra
Partners:	Eletra and Consat Telematics
Location:	São Paulo
Objective:	To optimise the telematic aspects of Eletra's electric buses through collaboration with Consat Telematics, enhancing vehicle performance, reliability, and customer experience.
Integration:	Eletra integrates Consat Telematics' advanced data solutions into their electric buses to enable functionalities such as smart charging, remote diagnostics, OTA updates, energy management insights, predictive maintenance, performance monitoring, driver behavior analysis, and customisable reporting.
Benefits:	Fast, reliable, and clear communication for 600 buses
Completion date:	May 2023 (6-month project)

Eletra, positioning themselves as the first 100% fully Brazilian made e-bus producer, made substantial investments to meet the growing demand for electric vehicles. They established a new factory for manufacturing electric buses, pioneering the nation's electric vehicle production.

Recognising the need to enhance the telematic aspects of their electric buses, Eletra opted to collaborate with Consat Telematics.

The situation

Despite Eletra's proficiency in battery management electronics, they recognised the importance of securing a dependable partner to develop the telematics aspect of their electric vehicles.

Choosing Consat Telematics was a natural choice, given its established experience and esteemed reputation in the field. Additionally, Eletra valued Consat's extensive automotive industry experience, particularly with major OEM suppliers, which played a crucial role in initiating the collaboration.

The solution

Eletra leverages Consat Telematics' data to enhance product features, including tools for system analysis, OTA updates, battery range optimisation for OEM success. Remote diagnostics result in fewer unplanned bus stops, as all buses are constantly connected. Upon detecting an anomaly in the system, we promptly identify the problematic signal and take corrective action to mitigate any potential impact on traffic, resolving issues before they escalate.

The Consat approach

Consat Telematics constructs systems with consideration for both OEM and public transport operators needs, uniquely positioning us in the market.



Functionalites:

- Electromobility
- Smart charging
- Remote diagnostics for real-time vehicle health monitoring
- OTA updates for seamless software upgrades
- Energy management insights to optimise usage
- Predictive maintenance to minimise downtime
- Performance monitoring for realtime efficiency tracking
- Driver behaviour analysis for performance improvement opportunities
- Customisable reporting for fleet performance insights

“Drawing from our expertise in both vehicle manufacturing and operator domains, we ensure comprehensive system development. This enables us to better cater to the needs of customers and bus operators while maintaining a competitive advantage.”

– Eletra

“With the continent experiencing a boom in clean energy investments, the timing is opportune. We’ve entered a promising stage of this development, aiming to lead the market and be recognized as a benchmark in electromobility solutions.”

– Esbjörn Lif, Sales,
Consat Telematics

Regional success

Eletra’s electric buses operating in Greater São Paulo in Brazil laid the groundwork for their collaboration with Consat Telematics, further solidifying Consat’s regional presence crucial for success in Brazil and Latin America. This collaboration, combined with Consat’s technical expertise and local insight, contributed significantly to Eletra’s success and continued growth.

Driving market differentiation

Eletra extends enhanced functionality to its customers through Consat Telematics’ solutions, optimising vehicle performance and reliability. Leveraging remote updates and detailed data analysis, Eletra ensures seamless operations and delivers an unparalleled customer experience, empowered with comprehensive energy management, predictive maintenance, and remote diagnostics capabilities. The standard and open interfaces of the solution also enabled integration to other systems in the Ventura ecosystem.



- Consat's solution considers both OEM and operator needs, setting Eletra apart in the market.
- By leveraging expertise from both vehicle manufacturers and operators, Consat ensures comprehensive system development.
- This unique approach enables Eletra to better meet customer demands and stay competitive.

“We pride ourselves on our expertise and our commitment to staying at the forefront of technology. Our solutions are tailored to meet the needs of our customers, ensuring that we remain leaders in the electromobility industry.”

– Esbjörn Lif, Sales, Consat Telematics

Summary

The Eletra project demonstrates effective collaboration between Eletra and Consat Telematics, with Consat's advanced telematics solutions playing a pivotal role in Eletra's achievements and expansion in the electric vehicle sector. Through ongoing innovation, Consat Telematics aims to further advance electromobility in Brazil and Latin America.

Value-driven collaboration

Consat's solutions permeate Eletra's organisation, from vehicle control systems to the support department, resulting in significant savings, improved energy efficiency, and enhanced safety. With Consat's assistance, Eletra has enhanced its products, offering customers high-performing and reliable electric vehicle solutions.

With the innovative solutions and a deep understanding of the automotive industry, Consat Telematics remains a key partner driving the development of electromobility in Brazil and Latin America.



Traffic Control and Monitoring

Manage daily operations with real-time information and data insights.

Vehicle and Fleet Management

Vehicle telematics integrated into public transportation for complete control.

Passenger Information

Enhance the travel experience for all public transportation users.

Driver Assistance

Enhance hiring appeal while supporting the driver in their daily work.

Electromobility

Seamless integration with existing public transportation operations, providing a unified view of the entire fleet.

Data Insights

Offering valuable insights for continuous improvement in public transportation operations.

Bringing intelligent public transportation to life

Consat Telematics is dedicated to reducing the environmental impact of public transportation through cutting-edge innovation and widespread implementation. Aspiring to global leadership in executing electrification and digitalization within public transportation, we serve diverse markets and organizations.

Our promise is a user centric, modular, and adaptable intelligent public transportation solution that never compromises on quality, reliability, and security. By placing our customers at the core, we ensure that more organisations can receive better data to monitor, manage, and improve their operations.

Contact for more information or a demo:

www.consat.com/telematics/