

Expertise: Product Development, Sustainability, Digital Solutions

Industries: Transport, Automotive

A successful digitalisation journey for a global tech company



Overview of the partnership

Partners:	An international tech company and Consat Engineering
Start:	July 2021
Objective:	To optimise and enhance the performance and uptime of climate control systems in buses.

In 2021, a leading tech company embarked on a digitalisation journey in collaboration with Consat Engineering. The goal was to improve the efficiency and uptime of climate control systems in buses.

A tech company with a strong global presence in climate control systems and emission solutions for vehicles has strengthened its position in the automotive industry by focusing on technological development and environmental awareness.

In 2021, the company initiated its digitalisation journey with the objective of optimising and enhancing the performance and uptime of bus climate control systems. Thanks to a value-driven and successful partnership with Consat Engineering, the digitalisation project became a reality.

A pragmatic partner

The collaboration between the tech company and Consat Engineering has been characterised by a pragmatic and cooperative approach. Vinay Dhar, Head of Digital Service, who worked on the project from Consat's commercial side, emphasises the importance of aligning work processes:

"It's crucial to have a synchronised partnership model that facilitates collaboration, especially in digital projects. We were very aligned with this company on their project vision – we functioned as a team with a shared understanding of the work process," explains Vinay.

The customer agrees that working with Consat Engineering has been highly effective:

"Consat fully understood our ideas and supported us in many ways. Whenever we encountered challenges, they always had interesting ideas and could use their experience to provide valuable input."

“We’re part of building a complete digitalisation journey for this company. We don’t just develop a service, product, or solution; we work alongside them to determine what organisational changes are needed to align technology with their business model,”

Ragnar Hallgren, Vice President Consat Engineering

Challenge

The tech company lacked a comprehensive overview of how its climate control systems were performing in operating buses.

Solution

Consat Engineering installed a system on the buses to collect and filter data. This was then visualised on a dashboard, providing a clear overview of system performance.

The challenge

Before partnering with Consat Engineering, the tech company faced several challenges. They needed to collect and visualise data from buses to understand on-road performance and improve their climate control systems – a complex task requiring both expertise and technical resources.

The solution

Consat Engineering provided an innovative solution for collecting and managing data from buses, enabling comprehensive visualisation of information:

“The tech company aims to predict when the system risks failure so they can adjust or replace components before any issues arise. At the same time, they want to avoid unnecessary replacements as that would be costly. The fundamental idea is to use the collected information in a smarter way,” says Ragnar Hallgren, Vice President at Consat Engineering.

By gaining access to real-time data, the company unlocked new valuable services, such as online diagnostics and monitoring, as well as the ability to predict when maintenance would be required for a vehicle.

At the beginning of the project, the company lacked an up-to-date overview of how their climate control systems actually were performing in operating buses. The first step was the installation of Consat’s telematics system on the buses to start gathering and filtering data, which was then visualised on a dashboard.

“We’re part of building a complete digitalisation journey for this company. We don’t just develop a service, product, or solution; we work alongside them to determine what organisational changes are needed to align technology with their business model,” says Ragnar.

Key outcomes

- Consat's telematics system was installed on the buses, enabling seamless data collection.
- The collected data is visualised on a dashboard.
- Repairs are predicted in advance, reducing downtime and unnecessary part replacements.
- Online diagnostics and monitoring provide insights for better maintenance planning.

Summary

- The project has contributed to improved performance and reduced costs in bus climate control systems.
- The system is currently implemented in multiple buses, with plans for further expansion.
- There is a continued ambition to offer an even more user-friendly and efficient system in the future.

The result

Through value-driven, innovative solutions, strong collaboration, and effective implementation, the tech company has improved system performance and reduced costs in its climate control operations. The data collected from the buses has enabled not only real-time monitoring and diagnostics but also the ability to predict when maintenance will be required.

Today, the system is implemented in several operating buses. Looking ahead, the company's ambition is to offer both customers and internal teams an even better and more streamlined system management experience. Soon, hundreds more buses will be equipped with the system.

Value-driven innovations

Consat Engineering enabled the company's digitalisation project, playing a crucial role in optimising and enhancing the performance and uptime of bus climate control systems. Their innovative data collection and management solutions facilitated a comprehensive visualisation of system performance.

Through this collaboration, the company has improved performance while reducing costs in its climate control systems. The partnership has been defined by strong teamwork, efficient implementation, and a pragmatic approach, all of which contributed to the project's success.

Contact us

Are you interested in exploring how Consat Engineering can support your organisation with value-driven innovation? Contact us today for more information or a demo.