



CASE STUDY

AUTOMOTIVE



Top 5 automotive leader increased productivity in several factories across the world.

BACKGROUND

The industry is shifting its ways towards a new stage, **industry 4.0**. As explained by the World Economy Forum, Augmented workforces add a value of \$2.6 billion. And, the new reality brings advantages to businesses:

- **New and improved** ways of serving;
- **Full control** over the value chain.

In 5 years, **86% of the industrial companies** are expected to have started their digital transformation journey, creating an additional pressure on industrial leaders.

As a **top 5 automotive European leader**, Company X's goal is to keep ahead of the competition by increasing efficiency productivity, and entering new markets.



With 40 worldwide plants, 13 logistics sites, and 4,000,000 cars sold annually, the leader has an increasing need to **optimize results, improve production system avoid downtime and guarantee overall factory safety.**

CHALLENGE

Aware of these recent challenges, Company X scout on new technological solutions to improve their operations. When the company came to Glartek, the demand was widely presented: **How to increase the efficiency of their Autonomous Maintenance Processes (AMP).**

The key problem was decomposed into **4 different, but complementary, issues:**

- 1 AMP information access and verification length**
- 2 No control over process execution**
- 3 Low training time and high error probability**
- 4 Excessive bureaucracy and paper use**

Understanding the contours of the AMP efficiency was no easy task. However, it was crucial for the leader, since the present processes could affect the operations in the following ways:

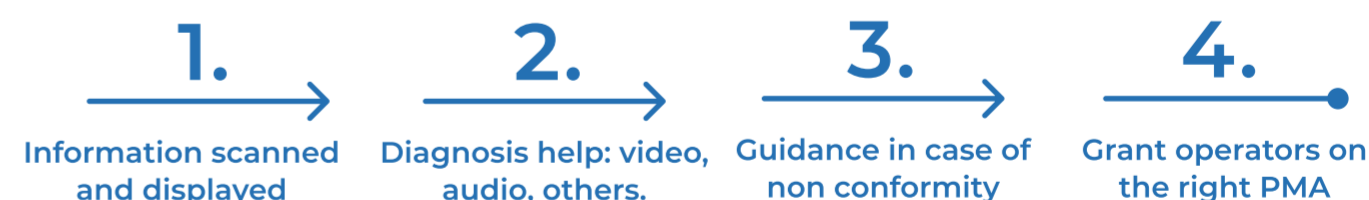
- 1 Equipment condition compromised**
- 2 Defaulted production pieces**
- 3 Field workers safety compromised**

SOLUTION

Following the problem assessment, and finding Glartek's perfect fitted product, the solution was progressively implemented. The solution was based in **four pillars:**

- 1 Reducing the number of verification checkpoints**
- 2 Digitize all the collected data**
- 3 Provide operational support**
- 4 Enhance production workers' capacities**

Field workers were supported with processes documentation in their devices, near the equipment, guaranteeing real-time information access. And, without any help during their first round, the process completion time was reduced. The improved process included.



RESULTS



50%

Training time reduction



70%

Diagnostic & response time reduction



80%

AMP execution time reduction

- 100% data collection time reduction
- 50% reducing in bureaucratic work
- 30% travel time reduction
- Increase production output by 3%

NEXT STEPS

Continuous improvement measures are key to ensure a competitive advantage in industry. Therefore, **future steps** consist on:

- 1 Optimize processes with **data collected in real-time**
- 2 **Augmented Reality (AR)** remote assistance
- 3 Extend the solution to other industrial operations



CONCLUSION

This success story has opened new possibilities to the automotive leader. The new method was fastly spread into **two more factories in the world**, in order to achieve global results.

BEFORE

Error, time lost, less human capacity

AFTER

Time for priority tasks, and decisions

“Glartek's product reduced our maintenance tasks length by 80%, which increased our plant's overall efficiency. Additionally, workers without any experience with the equipment still managed to execute processes, which made us gain more flexibility and agility.”

ABOUT US

Glartek, founded in 2017, is a leader in Augmented Reality (AR) solutions for the Manufacturing and Asset Intensive Industries and our mission is to increase the efficiency and safety of operational processes. Our software solutions combine the AR and Internet of Things domains to bring visibility, optimization, and reassurance to field operations. Glartek has offices in Lisbon and Leiria, Portugal, has very large customers such as EDP and Renault, and has raised over €1.5M in venture capital.

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