



CASE STUDY

A GLOBAL LEADER IN AUTOMOTIVE PARTS MANUFACTURING INCREASES PRODUCTION WITH A NEW DIGITAL SOLUTION



The automotive parts supplier achieved a **0% error** by introducing the Augmented & Connected worker platform

BACKGROUND

Founded almost 85 years ago, the company is a worldwide leader in the production and supply of automotive parts. This supplier covers the manufacturing of a broad range of products, including wiring harnesses (wires, connectors, and subsystems), components, electronics, and interface solutions.

The company operates on four continents and in 46 countries. Overall, the automotive group has 141 companies, over 230 000 employees, and an average annual revenue of \$13.1 billion.

In recent years, the company has sought to modernize its operations and deepen its commitment to sustainability by expanding the life cycle of parts, their reusability, and their recyclability.



The company has recently expanded its operations by opening its 4th factory in Morocco and its first-ever plant in Guatemala.

CHALLENGE

Operating in a demanding and fast-paced industry, the company needed to **optimize its firewall workstation operations**. Managers struggled to provide efficient training and procedural guidance. As a result, operations were error-prone and difficult to monitor.

Ultimately, Glartek broke down the challenges faced by the company into **five key aspects**:

- 1 Paper-based work instructions and inability to manage or adapt procedures
- 2 Work instructions are difficult to understand and contribute to a high degree of mistakes
- 3 No mobility tool to guide operators
- 4 No option to review the execution of procedures
- 5 No training software

SOLUTION

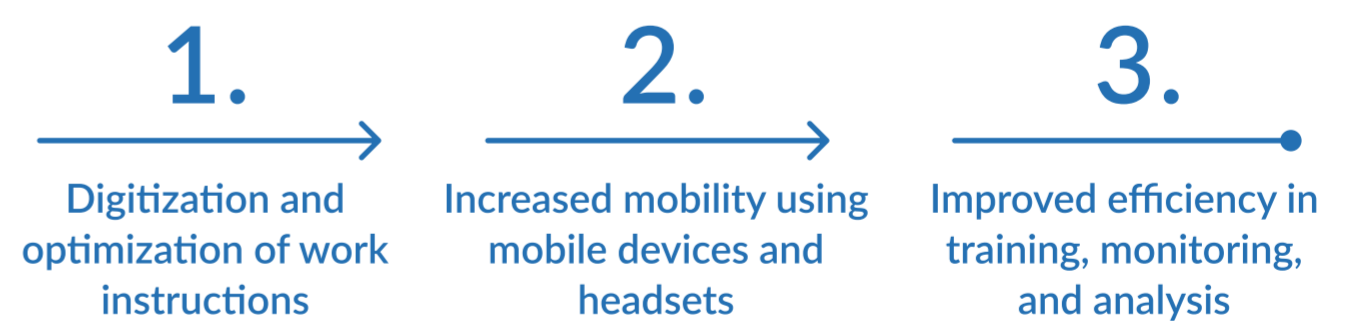
To tackle the challenges previously mentioned, the first step focused on ending paper-based work instructions in firewall workstation operations. This was done by digitizing all work instructions and centralizing all relevant information in a single no-code platform.

The Augmented & Connected Worker (ACW) platform allowed for easy and intuitive management of instructions and review of results. Additionally, frontline workers were provided with real-time guidance to assist them during tasks and training.

Overall, the Augmented & Connected Worker approach can be summarized in five points:

- 1 Creation of digital work instructions in a single platform
- 2 Approval and management of work instructions in real-time
- 3 Real-time guidance Augmented Reality (AR) with HoloLens
- 4 Monitor and analyze in the back-office using dashboards, and analytics
- 5 Reduced operations training due to Augmented Reality (AR)

The no-code ACW digital solution centralized and helped manage information and enabled a new reality for the company. The process can be described as follows:



RESULTS



35%

Reduction of waste



6%

Production increase



3x

Faster training for new workers



0%

Error rate

In essence, the changes delivered by the ACW solution benefited both supervisors and frontline operators. Managers could more efficiently change and adapt work instructions while monitoring all aspects of individual tasks. This allowed for more informed decision-making, improved management, and training planning.

Simultaneously, operators had access to more illustrative and less complex instructions. Guidance merged both digital 2D assets and Augmented reality helping reduce errors and time spent on tasks.

ABOUT US

Glartek, founded in 2017, is a leader in Augmented Reality (AR) solutions for the Industry and its mission is to increase the efficiency and safety of industrial processes. Glartek's software solutions combine the Augmented and Connected Worker domains to bring visibility, optimization, and reassurance to field operations. Its wide range of customers varies from asset-intensive companies such as EDP and Manufacturing companies, such as Renault. Glartek is headquartered in Lisbon, Portugal, and has raised over €1.5M in venture capital.

NEXT STEPS

While the changes implemented resulted in significant improvements, the process toward full transformation doesn't stop here. Future steps include:

- 1 Leverage the Augmented & Connected worker platform for other procedures
- 2 Fully digitize all operations
- 3 Expand the use of this digital solution to other factories for improved analytics



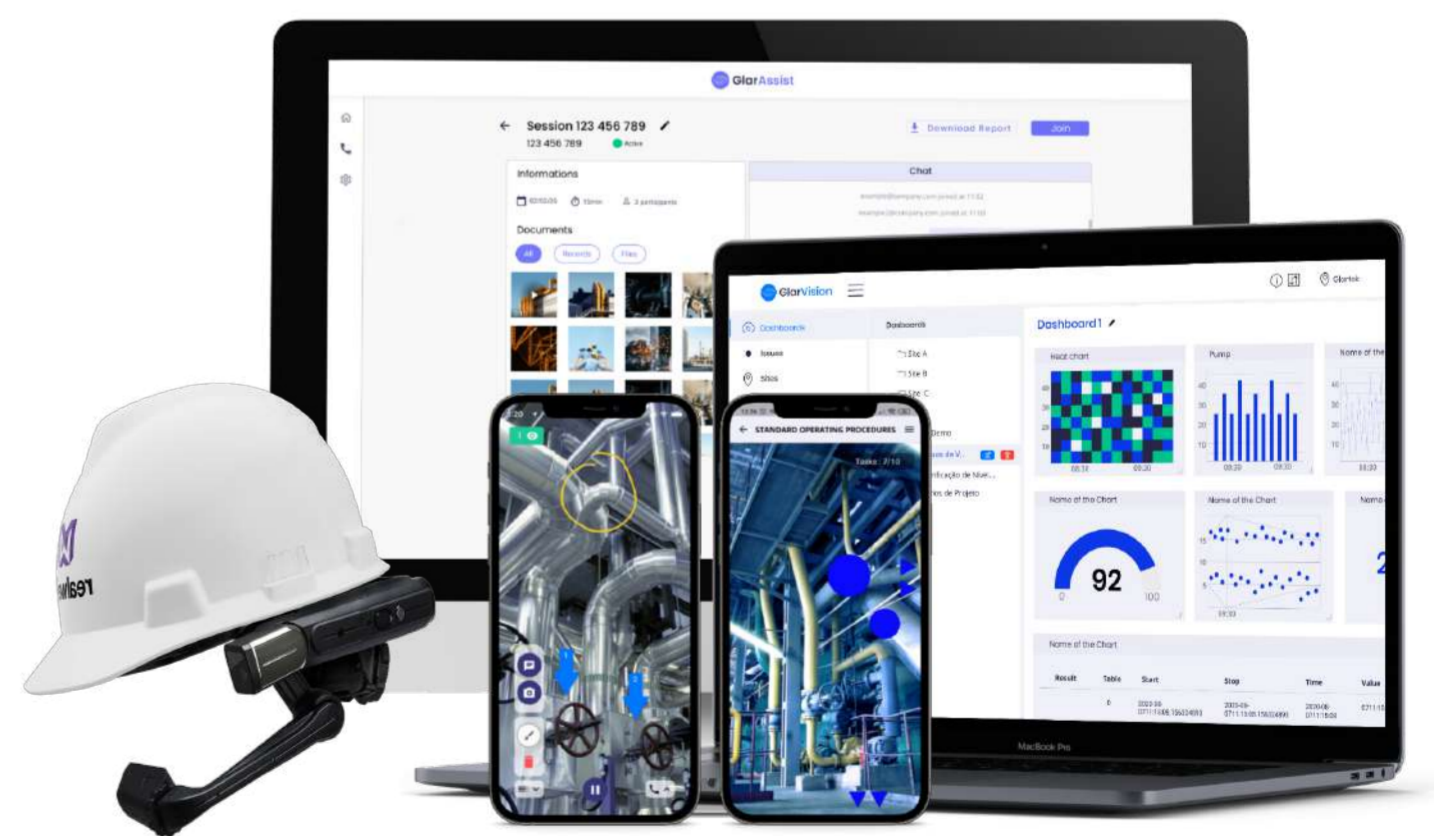
CONCLUSION




BEFORE

Paper-based firewall workstation operations

AFTER

2D & Augmented reality-based instructions



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