

# CARREFOUR SUCCESS STORY

An overview of how TIM Smart Gloves improved the operations of CarrefourSA Turkey.



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# INTRODUCTION

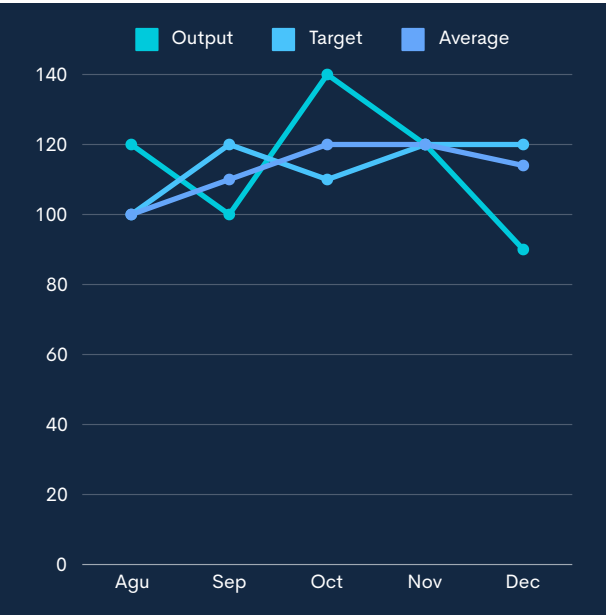


In a groundbreaking collaboration, TIM has redefined the landscape of CarrefourSA's warehouse operations, leaving an indelible mark on the efficiency and productivity of one of the region's leading retail giants. CarrefourSA, not just a prominent supporter but a firsthand beneficiary of TIM's cutting-edge services, has undergone a paradigm shift in its operational dynamics.



The integration of TIM's state-of-the-art technology has not only streamlined existing processes but has set a new benchmark for excellence in the realm of warehouse management. The collaboration has become emblematic of the power of innovation, showcasing how TIM's solutions propel businesses into a new era of productivity and effectiveness.

# PREDICTIVE ANALYSIS FOR PERFORMANCE OPTIMIZATION



TIM's smart gloves record daily employee performances within the warehouse. CONWO analyzes this data to provide insights.

Leveraging machine learning, daily, weekly, and monthly performance metrics are used to calculate the potential efficiency of the warehouse at different times.

Each employee receives daily, weekly, and monthly performance targets based on the depot's maximum efficiency, dynamically adjusted by CONWO.

This machine learning process ensures that plans are continually optimized, allowing for adaptability in scenarios such as employee turnover or unexpected events.



# WAREHOUSE ASSESSMENT WITH ARTIFICIAL INTELLIGENCE



**01** Employing artificial intelligence and machine learning, TIM's solutions meticulously assess the potential value of every warehouse in which they are implemented.

**02** Key factors, including employee performance, goods reception volume, and warehouse layouts, undergo thorough consideration during this evaluation process.

**03** Subsequent to this comprehensive analysis, each warehouse is allocated a specific value, leading to the initiation of daily, weekly, and monthly evaluations for ongoing processes.

**04** This strategic approach ensures a dynamic and data-driven optimization of warehouse operations, fostering a continuous cycle of improvement and efficiency.

# INTER-WAREHOUSE COMPARISON

Daily, weekly, and monthly values assigned to each warehouse enable comparisons between different locations.

This allows for informed decisions on which operations to conduct in each warehouse, prioritizing certain tasks, and establishing inventory systems.

This approach facilitates effective budget planning for the company.

# COMPARISON OF PRODUCTS WITHIN WAREHOUSES

Understanding the operational volume of each product group in warehouse operations helps determine the processes and values assigned to these groups.

This ensures accurate planning within the warehouse and calculates the workforce required for each product group.

Additionally, this data-driven insight enables TIM's clients to strategically allocate resources, identifying areas for potential growth and refinement in their product handling and storage strategies.



# OPTIMIZING WAREHOUSE LAYOUT WITH HEAT-MAP ANALYSIS



CONWO's "Heat-Map" feature analyzes the routes employees take for product and process-related tasks. It recommends optimized routes for faster processes. This has led to a redesign of CarrefourSA's warehouses, making operations more efficient and streamlining processes for enhanced productivity.

Through the integration of TIM's smart gloves and CONWO software, CarrefourSA has experienced a transformation in warehouse management, exemplifying the impact of advanced industrial automation solutions in the retail sector. This success story showcases how technology can significantly enhance operational efficiency, leading to a more streamlined and productive business environment.



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