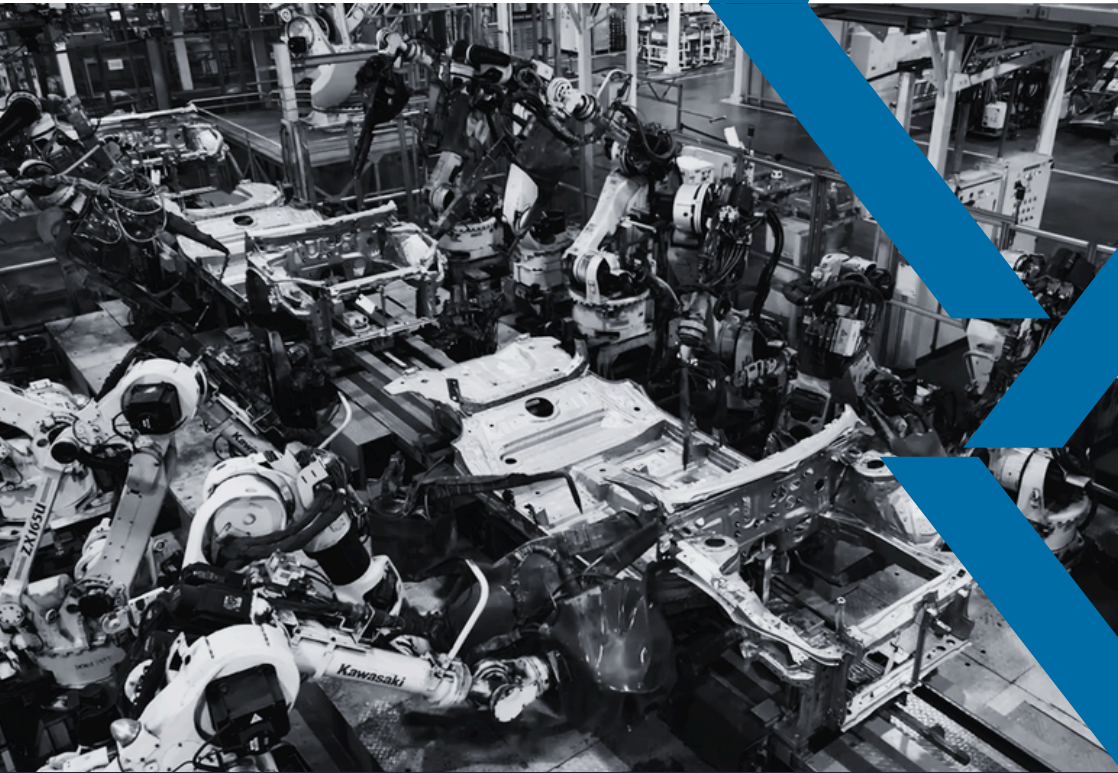


# TOYOTA SUCCESS STORY

An insight into how TIM Smart Gloves have transformed TOYOTA Turkey's operations.



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# INTRODUCTION



In a pioneering project, TIM has redefined the landscape of Toyota Turkey's production operations, leaving a lasting impact on efficiency and accuracy. As one of the key beneficiaries of TIM's cutting-edge solutions, Toyota has undergone a significant transformation in its operational dynamics, eliminating manual errors and optimizing production processes.



The integration of TIM's latest technology not only streamlined existing processes but also set a new benchmark for excellence in the management of the production line. This collaboration has become a symbol of the power of innovation, demonstrating how TIM's solutions propel businesses into a new era of productivity and efficiency.

# CHALLENGES IN TOYOTA'S OPERATIONS



Despite working with precise engineering and advanced technology in its production processes, Toyota had still been using manual methods, such as pen and paper, in the assembly stages in the past.

This practice created a number of operational challenges. One of the most notable issues was the risk of incorrect parts being introduced into the production processes, leading to delays, inefficiencies, and potential errors in the final product.

After Toyota's collaboration with TIM, Toyota's incorrect production rates showed drastic decrease and they were able to improve efficiency in the production stages.



# DIGITAL TRANSFORMATION JOURNEY WITH VEGA-X



**Save  
4 Seconds  
per Transaction**

**01** The incorrect assembly line production rates were completely eliminated, reaching a remarkable zero, resulting in a flawless and highly efficient production process.

**02** Manual processes on the assembly line underwent a comprehensive digital transformation through the implementation of VEGA-X, streamlining operations and enhancing efficiency.

**03** After implementation, each item was assigned a unique location within the VEGA-X system, making part management significantly more efficient and streamlined.

**04** Enhanced visibility led to reduced downtime and more efficient resource allocation across the assembly line.

# ASSEMBLY LINE ERROR REDUCTION

As Toyota transitioned to digitalization, they moved from manual methods in production and assembly line operations, such as recording with pen and paper, to handheld terminals.

This shift made a significant impact, especially in assembly line operations. The handheld terminals ensured that the correct parts were accurately retrieved from the warehouses during the vehicle production processes.

As a result, product and shelf matching errors were minimized, preventing issues such as product misplacement and data duplication.

# BOOSTING EFFICIENCY WITH REAL-TIME TRACKING

Toyota's inventory and assembly was replaced from manual methods to handheld terminals. Real-time tracking reduced mismatches, improving efficiency and preventing costly rework.

Digital tracking tools optimized product-to-shelf alignment, creating a more organized workflow. This enhanced production speed and strengthened quality control.

Expanding these technologies highlights the long-term benefits of digitized inventory, ensuring continuous operational improvements.



# FUTURE GROWTH AND INNOVATION



Toyota's adoption of VEGA-X has set the stage for smarter and more efficient manufacturing. With 25 additional devices ordered for new operations, the company is expanding its use of Thread in Motion's technology to further enhance accuracy and productivity.

This transformation has already led to a time saving of four seconds per operation, significantly improving workflow efficiency. Future advancements, including AI-driven analytics and increased automation, will further optimize decision-making and streamline processes. Toyota's commitment to continuous innovation reinforces its position as a leader in operational excellence within the automotive industry.



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