



Transforming Automotive Supply Logistics with Wearable Technology

SIKA Success Story: Achieving +30% Efficiency and Full Digitalization with VEGA-X



EXECUTIVE SUMMARY

Sika Türkiye required a zero-error, high-speed material supply chain to support critical automotive assembly lines. Through a rapid 14-day plug-and-play integration of VEGA-X smart wearables, Sika eliminated operational friction, achieving a 30% speed increase and absolute picking precision.

01

**Introduction:
SIKA Success Story**

02

**Hidden Costs of
Operational Inefficiency**

03

**From Manual Operations
to Intelligent Automation**

04

**Flawless Execution &
Measurable Impact**

05

**A Strategic Step Towards
Smart Industry**

01 | INTRODUCTION

Global Heritage:

Founded in **1910**
(Switzerland). Over a
century of specialty
chemicals leadership.

Regional Powerhouse:

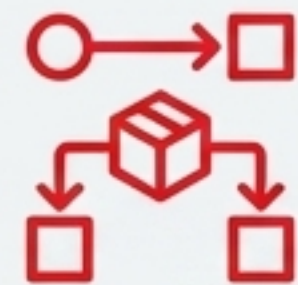
Sika Türkiye has served
the region for **20+ years**.



The Client: Sika is a premier automotive supplier (otomotiv yan sanayi) providing advanced bonding, sealing, damping, and reinforcing solutions critical to vehicle body structures.



The Context: Sika's products are integral to continuous automotive assembly lines. Delivering the exact component, at the precise moment, is an absolute non-negotiable.



The Imperative: Production continuity for automotive manufacturers relies entirely on Sika's warehouse agility. Any delay or error in picking cascades directly to the client's assembly floor.

Friction Map



The Speed Bottleneck

Friction Point: Handheld terminals and paper picking lists required operators to constantly pick up and set down devices.

Impact: Broken operational flow and significantly prolonged order picking times.



The Error Risk

Friction Point: Manual validation processes increased the margin for human error.

Impact: In automotive supply, an incorrect component reaching the assembly line causes severe operational disruption.



The Ergonomic Strain

Friction Point: Bulky legacy scanners occupied a worker's hands.

Impact: Physical fatigue, awkward movements, and an increased risk of drops or workplace accidents.

The Legacy Compromise: Legacy hardware forced operators to choose between speed and accuracy, creating an artificial ceiling on warehouse performance.

03 | FROM MANUAL OPERATIONS TO INTELLIGENT AUTOMATION

Introducing VEGA-X Wearable Scanners

Hands-Free Paradigm:

Built-in display and controls allow operators to handle heavy items with both hands naturally.

Real-Time Digital Guidance:

WMS/ERP instructions (part number, location, quantity) are delivered directly to the operator's wrist.



Featherweight

Ergonomics: Replaces cumbersome handhelds with an ultralight, comfortable smart glove, instantly reducing physical strain.

Transitioning the workforce from manual device managers to augmented, hands-free operators.

03 | FROM MANUAL OPERATIONS TO INTELLIGENT AUTOMATION

Poka-Yoke: The Zero-Error Mechanism



1.

Action: Operator attempts to scan the incorrect part.

2.

Detection: System instantly recognizes the discrepancy against the active digital job card.

3.

Multi-Modal Alert: VEGA-X triggers instantaneous haptic (vibration), acoustic (beep), and optical (flashing LED) feedback.

4.

Correction: The error is rectified on the spot, before the component leaves the warehouse.

Proactive Quality Control: By neutralizing human-based mistakes at the source, the system effectively guarantees absolute picking accuracy for Sika's automotive clients.

03 | FROM MANUAL OPERATIONS TO INTELLIGENT AUTOMATION

Rapid Value Realization

Scope:
10 VEGA-X
units deployed.



Facility:
Sika Türkiye
logistics center.



Middleware:
ZERO
required.



Phase 1:
Direct Plug & Play

VEGA-X connects instantly to Sika's existing WMS/ERP via standard interfaces.

Phase 2:
Seamless Integration

No third-party systems, complex custom IT development, or ERP overhauls required.

Phase 3:
Active Floor Operations

From initial installation to full, active operation on the factory floor in **exactly 14 days**.

04 | FLAWLESS EXECUTION & MEASURABLE IMPACT

The Sika Executive Dashboard

+30%

Efficiency Surge: Hands-free mobility accelerated product picking times by over one-third, seamlessly streamlining assembly line supply.

ZERO

Errors (Poka-Yoke): Instant multi-modal feedback eradicated incorrect part picking, driving quality control to near perfection.

100%

Hands-Free Operation: Eliminated cumbersome handheld scanners, drastically reducing physical strain and lowering accident risk.

FULL

Digital Traceability: Every scan is digitally logged, providing live operational data to identify bottlenecks and optimize supply chain layouts.

04 | FLAWLESS EXECUTION & MEASURABLE IMPACT

The Human Element

- **Natural Movement:** Removing bulky scanners allowed workers to maintain natural posture and reduce fatigue.
- **Increased Safety:** With both hands free to lift and maneuver heavy chemical containers, the risk of workplace accidents plummeted. Higher morale directly translates to higher productivity.



The Enterprise Intelligence

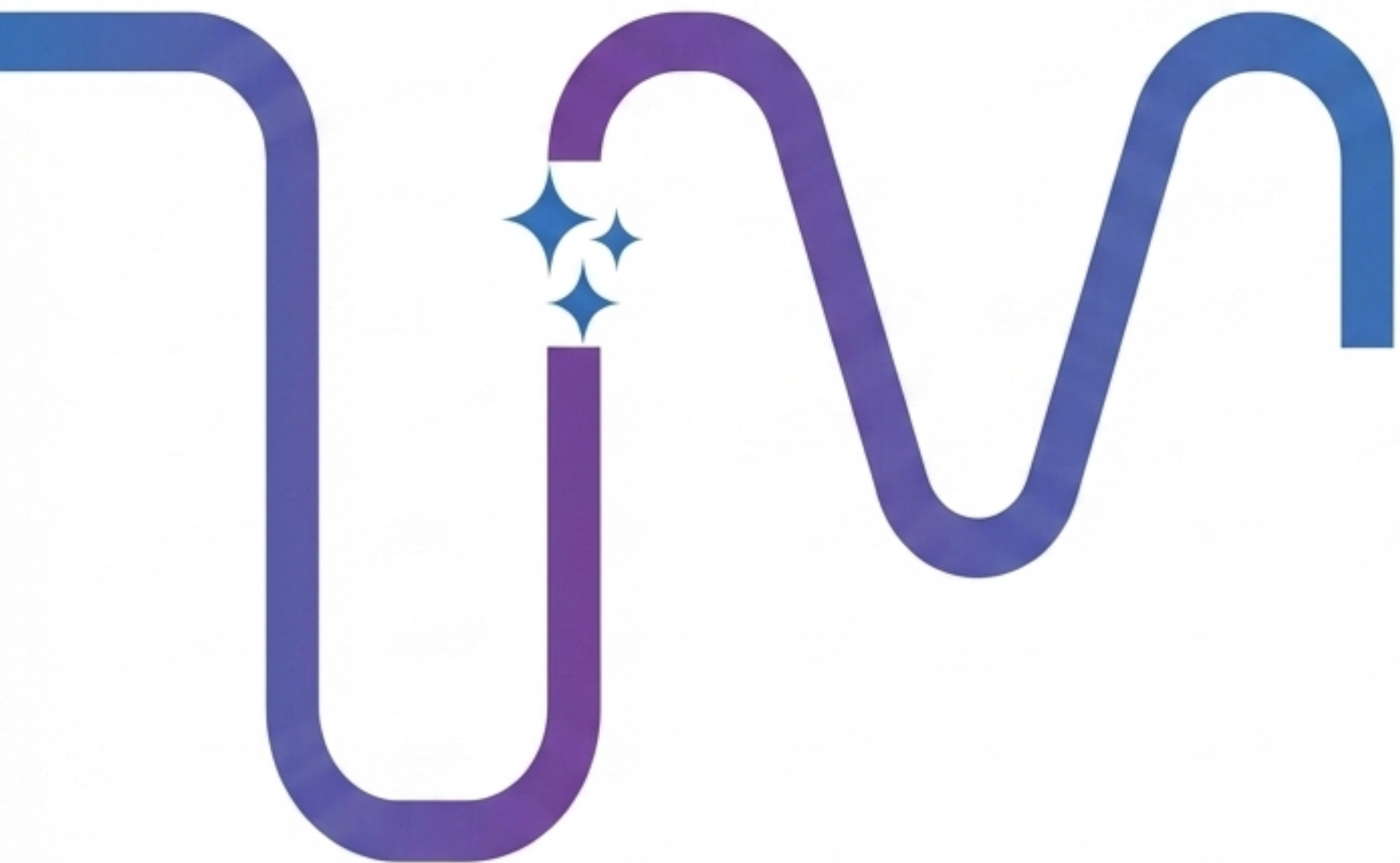
- **Digital Logs:** Sika transitioned from dark spots in their warehouse to an end-to-end digital log of who picked what, when, and for which order.
- **Continuous Optimization:** Management now leverages real-time scan data to continuously refine inventory management, eliminate bottlenecks, and upgrade employee training.

05 | A STRATEGIC STEP TOWARDS SMART INDUSTRY

Scaling Operational Excellence

By seamlessly integrating wearable technology into their logistics core, Sika Türkiye has established a new benchmark for operational excellence in the automotive supply sector. This rapid, highly successful digital transformation proves that legacy warehouse workflows can be upgraded into intelligent, Industry 4.0 environments with minimal disruption. With an agile, data-rich infrastructure now in place, Sika is perfectly positioned to leverage real-time insights, continuously optimize its supply chain, and scale this model of human-centric automation.

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