

Smart Material Tracking (SMT) solution



Revolutionizing inventory
management with real-time
asset monitoring

Powered by HCLTech Intelligent Asset
Tracking and Management (IATM)

Overview

A recent study on the importance of track-and-trace of materials in supply chains showed that:



There are unpredictable order-to-cash (O2C) cycles, impacting financial performance



Inadequate inventory control causes outdated visibility into material movement



Accurate access to asset information is difficult



There are increased stockouts and suboptimal inventory levels



RFID chips and other technologies are appearing on more and more products, establishing important roles in track-and-trace solutions

Today, manufacturing organizations face the ongoing challenge of a lack of real-time visibility of their raw materials, sub-assemblies and finished product inventories with no traceability of the materials.

Our Solution

HCLTech Smart Material Tracking is an advanced IoT-based track and trace solution designed for industries with significant material movement. It addresses the challenges of material visibility and manual tracking errors by providing automated tracking and a consolidated inventory view.

Powered by Intelligent Asset Tracking Management (IATM), the SMT solution is available on multi-cloud platforms like Microsoft Azure and AWS Marketplace and can also be deployed on-premises. The solution enhances productivity, reduces wastage, and lowers capital costs by improving asset location accuracy and operational efficiency. It is scalable to track up to 1,000,000 assets, integrates with third-party systems via application programming interface (APIs) and offers flexible commercial models.



Awards and Recognition



IoT Evolution
Business Impact
of the Year
Award, 2023



IoT Evolution
Asset Tracking
of the Year
Award, 2023

Features



Real-time asset traceability

Enables zone-wise traceability of materials between different areas in large manufacturing facilities



Consolidated floor layout view

Enables inventory visibility and location across the facility as a single pane of glass and facilitates operators in finding and locating materials and assets



FEFO/FIFO search capabilities

Prioritizes movement of materials based on First Expired First Out (FEFO) or First In First Out (FIFO)



Automated audit and stock check

Reduces need for manual counting



Open APIs for enterprise application integrations

Seamless integration to customer's existing Enterprise Resource Planning (ERP) and other third-party systems

Solution Workflow



Key Benefits

With a strong focus on materials management and resource optimization, SMT empowers data-driven decisions with streamlined real-time asset tracking and cost reduction.

85%
Reduction in time to locate assets

80%
Improvement in cycle count time

75%
Improvement in inventory accuracy

50%
Reduction in inventory holding costs

50%
Reduction in material wastage

Case Study

Driving transformation and operations efficiency improvements through automated material tracking for a leading multinational healthcare company

The objective

The customer is on a transformative journey to enhance its material handling processes through digitalization and increased automation.

The solution

The company adopted the SMT solution with sensors for real-time material tracking across zones. Integrated reports and ERP compatibility ensured accurate inventory management and streamlined processes.

The impact

83%

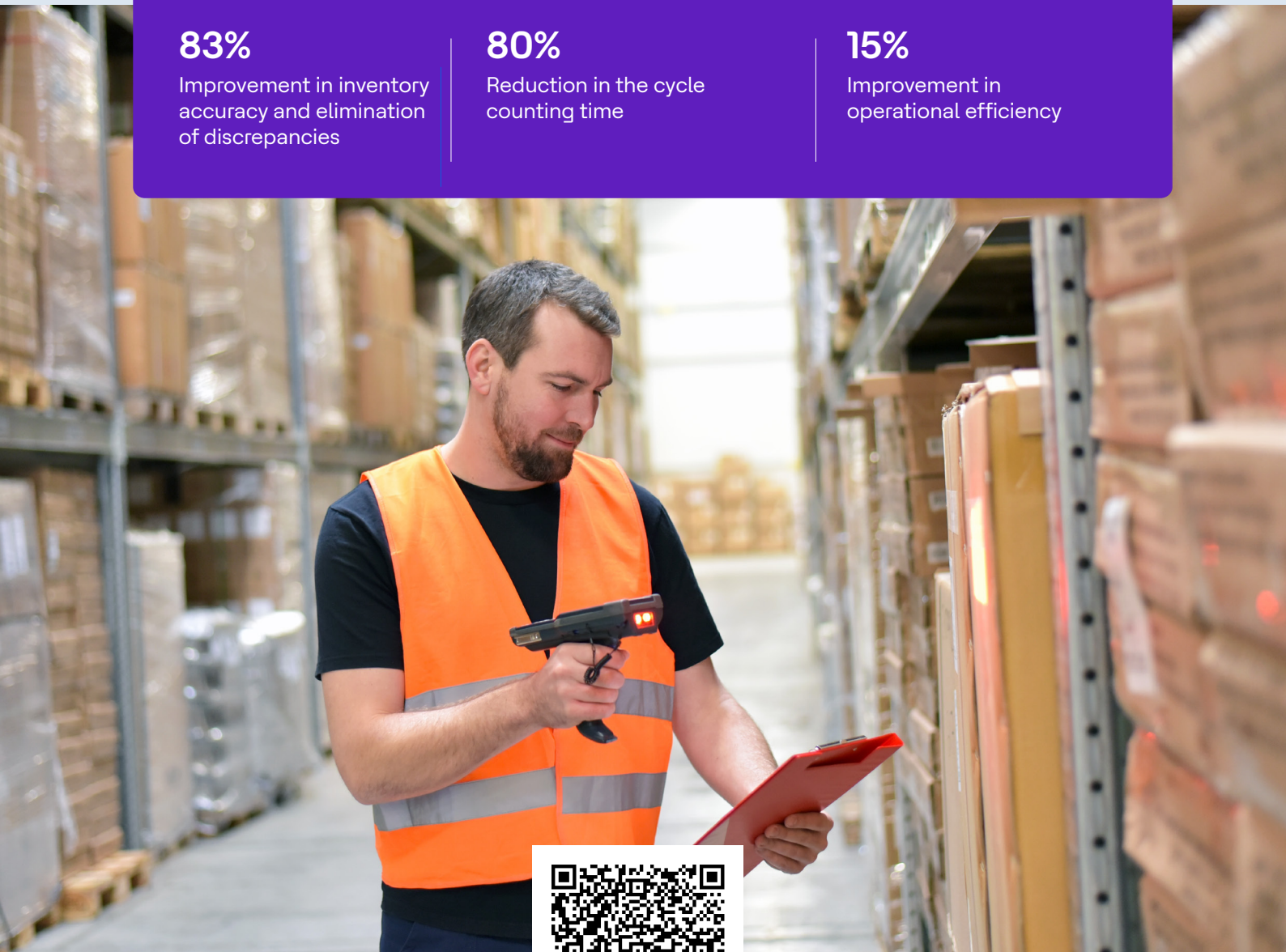
Improvement in inventory accuracy and elimination of discrepancies

80%

Reduction in the cycle counting time

15%

Improvement in operational efficiency



Scan the QR code to read the complete case study

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Progress™

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