



# WAREHOUSE LOCATION OPTIMIZER

Enhance utilization and emphasize real-time location occupancy  
Boost warehouse visibility using IoT

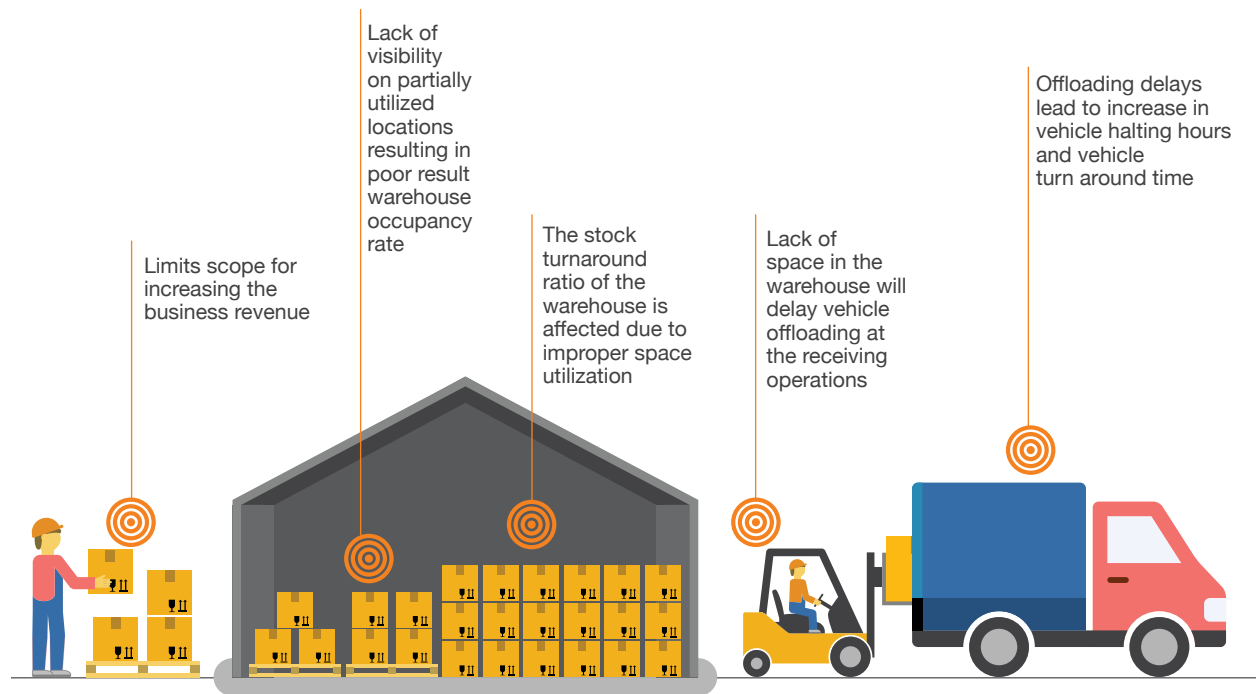
# INTRODUCTION

In a supply chain network, the warehouse plays a vital role in receiving and supplying the right product, at the right place, at the right time for many years. In fact, globalization and the emergence of omni-channel eCommerce platforms has increased the role of a warehouse in the entire supply chain.

As warehouses have become vital players for effective supply chain management, it is important to address the challenges hindering their optimal performance. One of the major pain points is optimizing the utilization of the warehouse location, as one of the major problems confronting 3PLs is reserving locations/slots in a warehouse and the utilization of space inside each location. Internet of Things (IoT) can play a major role in optimizing the utilization of the warehouse.

# IMPACTED AREA







Improper utilization of warehouse locations impacts major areas of operations. Some of them are:



# THE SOLUTION















Current processes to manage location utilization in a warehouse are manual and inefficient. Automating these processes can increase the efficiency and lead to higher warehouse optimization.

HCL's Location Optimizer Solution utilizes IoT to provide location-specific occupancy levels in real-time through the use of IoT-enabled smart devices and sensors. These intelligent sensors provide the data points needed in real-time to help manage current optimization and help in increasing the optimization levels to drive higher revenues and reduce costs. Key features of this solution are:

 <p>Real-time updates of location-specific utilization</p>	 <p>Direct interface with the WMS system to ensure error-free updates</p>
 <p>System-generated report for consolidation of location and improving the occupancy levels</p>	 <p>Complete visibility of warehouse, enabling additional maximum volume handling capabilities</p>
 <p>Fast and highly accurate location utilization process</p>	 <p>User-friendly operation features for a state-of-the-art warehouse</p>

# THE BENEFITS

Some benefits of the location optimizer solution, when compared with the conventional warehouse, are:

CONVENTIONAL LOCATION OPTIMIZATION	LOCATION OPTIMIZATION WITH SMART DEVICE
 Manual and time consuming process	 Automated and error-free process
 Warehouse level visibility on space utilization	 Location/ slot level visibility on space utilization
 Less scope for improving the stock turnaround ratio	 Stock turnaround ratio will improve drastically ~ 20-30%
 Limited ability to support dynamically changing business volumes	 Flexible and a fool-proof system, which can adapt to changing business volumes
 Person-dependent optimum utilization of the warehouse	 System-driven consolidation report and event-driven exception handling
 Lack of space impacts other activities within the warehouse	 Optimized utilization of space and decreased impact on other activities
 Low customer satisfaction level	 High customer satisfaction leading to more business



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