



# Building a modern, smart warehouse

Enabled by  
Microsoft technology



## Consumer and Retail companies can modernize their existing warehouse solutions to make their warehouse operations more cost-effective, accurate, and faster.

In today's economy, you must be prepared to mobilize your raw materials and products at any time, but legacy warehousing systems and processes are making these deployments more difficult than they need to be.

Most notably, supply chain sustainability and visibility, inventory management, and inefficient operations are causing the biggest challenges. When you factor in these challenges with the eCommerce boom and evolving consumer behavior it means that many firms are struggling to manage demand-supply and labor expenditure effectively.

Due to advances in transformative technologies, including intelligent automation and robotics, there is now an opportunity for to modernize your operations and build state of the art warehouses that will help you to overcome these issues and operate at scale.



## Smart warehouse

KPMG LLP (KPMG) has built a smart warehouse offering, leveraging Microsoft Dynamics 365 technology, that can help make warehouse operations more cost-effective, accurate, and faster – transforming how you store, maintain, ship, track and mobilize your products and raw materials through intelligent process automation.

This modern, flexible offering provides a secure, scalable, and production-ready warehousing system that can be adapted to meet the unique needs of each retail and consumer company.

By integrating technology across warehouse processes and systems, we can help to optimize productivity, digitize supply chain processes, and improve asset and raw material tracking – so you can easily audit, trace and report on your inventory.

This integrated solution collates real-time data from your processes arming you with the actionable insights required to make on the spot intelligent decisions.



## Modern capabilities

### Modern warehouse capabilities will automate your processes to improve safety and efficiency while also improving:



Accuracy of inventory and storage locations through 3D models and heatmaps



Space optimization enabled by Microsoft Dynamics 365



Process manageability with autonomous robotics retrieval algorithms



Integrated safety with collision avoidance for autonomous robotics



Reporting via BI dashboards fuelled with data-driven insights



## A fully connected warehouse system

A start to finish modular system with a suite of modern capabilities that support the unique needs of this industry



### Automated conveyance and transport

Automation of warehouse operations and data-driven support for efficiency gains transforms logistical operations to help ensure that each location can consistently exceed service level requirements.



### Digital inventory management

Leave stationary workstations behind with mobile, on-demand warehouse management applications. "One app for all" provides access to all warehouse functions from receipt to shipping through one application reducing complexity for the end user.



### Digital asset and material tracking

RFID-labelled inventory enables live tracking of inventory movements throughout the warehouse as well as autonomous robotic inventory counts.



### Warehouse storage optimization algorithm

Utilizes available storage space effectively and with consideration for asset demand and value.



### High density robotics storage solution

Uses artificial intelligence-driven "warehouse in a box" technology. This autonomous inventory orchestration increases capacity for other tasks. Resulting in greater warehouse throughput.



### Optical character recognition

Allows you to digitize and search receipt paperwork using a machine learning mobile application.



## Delivering results that matter

The KPMG smart warehouse offering, built on Microsoft Dynamics 365 technology, can make your warehouse operations and supply chain more cost-effective and sustainable, which can increase accuracy and transparency. Furthermore, this offering supports intelligent data-driven decisions and will help you focus on improving the customer experience.



### Why KPMG and Microsoft

KPMG and Microsoft are committed to providing business and industry expertise, a proven track record in building logistics systems, and using Microsoft technologies to back up our commitment to delivering innovative technology solutions.

**Together, we help Consumer and Retail companies to solve some of their most pressing logistics and warehouse challenges.**

For more information on how we can help you build a modern, smart warehouse contact:

**Chris Alagna**  
Principal, KPMG LLP  
E: [calagna@kpmg.com](mailto:calagna@kpmg.com)

**Greg Corlis**  
Principal, KPMG LLP  
E: [gcorlis@kpmg.com](mailto:gcorlis@kpmg.com)

[kpmg.com/socialmedia](https://kpmg.com/socialmedia)



Some or all of the services described herein may not be permissible for KPMG audit clients and their affiliates or related entities.

The information contained herein is of a general nature and is not intended to address the circumstances of any particular individual or entity. Although we endeavor to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act upon such information without appropriate professional advice after a thorough examination of the particular situation.

© 2023 KPMG LLP, a Delaware limited liability partnership and a member firm of the KPMG global organization of independent member firms affiliated with KPMG International Limited, a private English company limited by guarantee. All rights reserved. The KPMG name and logo are trademarks used under license by the independent member firms of the KPMG global organization.

Microsoft, Microsoft Dynamics 365, and Microsoft Power BI are trademarks of the Microsoft group of companies.