

ANATOMY OF A CONNECTED WAREHOUSE

STORAGE



Inventory Storage

Unbalanced inventory ratio can negatively impact cost and performance.

- ★ Deploy RFID, drones and other wireless technologies for inventory planning, count, validation and location verification.



Infrastructure

A surge in ecommerce and pick-up orders demands larger, more efficient warehouse and logistics facilities.

- ★ Build robust, scalable physical layer infrastructure that can be easily expanded to handle a growing number and type of technologies.

- ★ Leverage robotics for increased flexibility with disparate pallet types to increase efficiency, reduce labor expenses and errors.



Palletizing/Depalletizing

An explosion of SKUs and reduction in secondary packaging require new, efficient palletizing solutions.



Forward Pick

Large numbers of SKUs and fluctuating demand can cause over/under stocking, resulting in reduced efficiency and additional expense.

- ★ Use artificial intelligence to achieve transparency at SKU level and implement enhanced demand forecasting for increased accuracy and better inventory planning.

TRANSPORTATION



Loading Docks

Loading docks are a possible location for hazards and damages due to large vehicles pulling in and out.

- ★ Install lighting, cameras and access control to manage access, ensure safety.



Receiving

The transfer of goods from container to warehouse is a location of significant loss due to administrative error and/or fraudulent activity.

- ★ Deploy physical security systems like access control, IP video, ensure proper protocols are followed, and investigate losses.

Shipping

Planning labor and fleets required to accomplish on-time shipments can be challenging with little notice.

- ★ Predictive analytics and real-time mobile apps help provide insight and immediate notice to allow as much time as possible for labor and fleet allocation.



Delivery

Lack of visibility into goods once they leave the loading dock makes it difficult to ensure quality and integrity of goods received at point of delivery.

- ★ Leverage IoT devices to ensure integrity of load sent, manage and monitor travel and delivery times for improved customer service.



Warehouse Management System

Information delays and lack of full integration with other supply chain and transportation management systems causes information lag that can result in inefficiency.

- ★ Advancements in predictive analytics and IoT technologies will increase availability of accurate information in real time, streamlining processes and increasing efficiency.



PROCESSING & SORTING



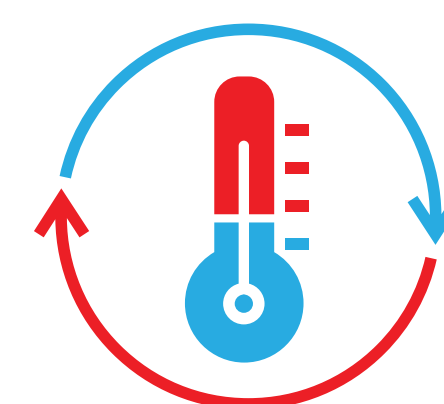
Scanning/Conveying

Conveyors are essential to the operations and downtime can cost serious money.

- ★ Ensure handhelds and other critical devices are pre-configured and ready-to-ship in case of breakage or failure to minimize disruptions to operations.

Refrigerated/Specialty Storage

Malfunctioning equipment can result in extensive product spoilage or loss of product integrity.



- ★ Deploy wireless temperature monitors to generate automatic alerts if conditions fall outside the acceptable range.

Large Moving Equipment

Improper use of large equipment can cause loss or injury to people and property, opening the door to liability and lawsuits.

- ★ Outfit equipment with IoT devices to monitor safety protocols and alert managers of unsafe conditions to address potential hazards before they result in loss.



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