



Distribution and Inventory Management in Supply Chain

Supply chain management relies heavily on efficient distribution and inventory management. Here's a quick dive into some key points around these topics.



Mohamed Ali.V.M Assistant Professor, SNS B-SPINE





Why Distribution and Inventory Matter

1 Meeting Customer Expectations

Accurate and timely delivery of goods is essential to customer satisfaction.

2 Managing Costs

Optimizing inventory
levels, transportation
modes, and overall
supply chain performance
reduces costs.

Increase Profitability

3

Effective distribution and inventory management can improve both revenue and profitability.





Key Metrics for Distribution and Inventory

Inventory Turnover

Number of times inventory is sold and replaced in a given time.

Fill Rate

Percentage of orders that are filled completely and on time.

Order Accuracy

Percentage of orders that are fulfilled correctly.

Stockout Rate

Percentage of time inventory is out of stock when demand arises.



Challenges and Solutions







Optimizing transportation routes and modes can mitigate delays and reduce costs.



Inefficient Processes

Streamlining processes and implementing technology like barcode scanners and IoT devices



Labor Shortages

Investing in automation and technology can reduce the dependency on manual labor.



Inventory Accuracy

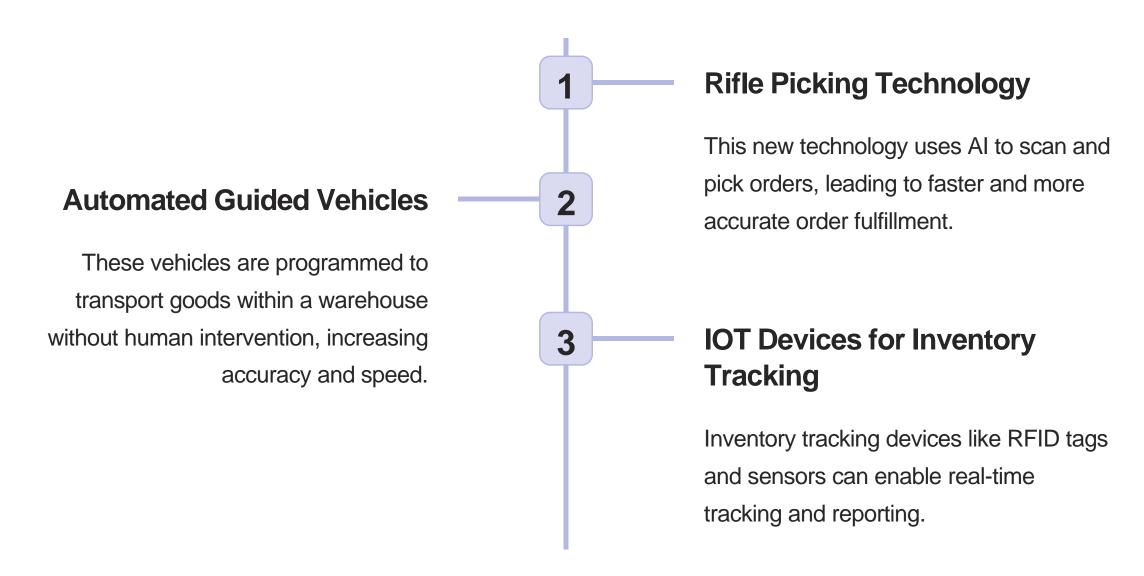
Automating inventory tracking and regular physical counts can ensure accuracy.

Mohamed ALi.V.M Assistant





Technology and Automation



Mohamed ALi.V.M Assistant Professor, SNS B-SPINE





Successful Case Studies

Amazon

Amazon's distribution centers utilize advanced automation technology and sophisticated algorithms to streamline their supply chain processes.

Zara

Zara emphasizes vertical integration, enabling it to respond quickly to market trends and offer a fast, flexible supply chain.

Walmart

Walmart's "vendor-managed inventory" program has significantly decreased inventory levels and improved product availability while maintaining low prices.





Conclusion and Next Steps

1 Continuous Improvement

Supply chain
management is an
ongoing process that
requires continuous
analysis and
improvement for
maximum efficiency and
profitability.

Investing in Technology

Investing in the latest technology and automation can result in cost savings and increased performance.

3 Collaboration

Collaboration among suppliers, partners, and stakeholders can lead to better decision-making and improved overall supply chain management.

Mohamed ALi.V.M Assistant Professor, SNS B-SPINE