

SUPPLY CHAIN

Overview:

The dashboard shows the data of the Supply chain field in a manufacturing company. The company's revenue has been steadily increasing From 2018 to 2019. In 2018, the company brought in 35,57 million in revenue. In 2019, that number increased to 59,45 million, and in 2020, it decreased slightly to 57,33 million. The decrease is because of the effect of the lockdown during COVID-19 pandemic.

However, the dashboard also shows that the company's profit margin is nearly unchanged, about 37,5 %. This suggests the company is managing costs well. However, there might still be room for further optimization and a rise in profit margin by modernizing the machinery (Invest in Automation), standardize parts, supplier negotiation about input material,...

Looking at the breakdown by channel, we can see that Wholesales is the most profitable channel, bringing in 31,25 million in revenue, more than half of total revenue(54,5%). This is followed by distribution, which brought in 17,62 million in revenue.

The dashboard also shows that product N is the most profitable product, bringing in 3,10 million in revenue in three years and the inventory is the lowest.

However, there are also a few areas where the company could improve. For example, the inventory order level analysis shows that there is a high percentage of inventory in progress. This could tie up cash and lead to stockouts. In Estevan warehouse, the average delivery time is 5,2 days and this is the warehouse that has the lowest inventory, therefore the delivery time has a strong impact on inventory. The company could look to improve its delivery time, which is currently quite long about 5,5 days, and doesn't improve during 3 years.

Suggest solution:

Implement a Just-in-Time (JIT) inventory management system. This reduces WIP and carrying costs by ordering materials only when needed for production. Utilize forecasting methods to predict demand and optimize inventory levels.

Evaluate warehouse layout and pick-and-pack processes to identify areas for improvement. Consider automation or layout optimization for faster fulfillment. Analyze transportation modes and costs. Explore multi-modal transportation or consolidation centers for faster and more cost-effective delivery.

Supplier Relationship Management: Develop strong partnerships with key suppliers. This fosters communication, collaboration, and can lead to better pricing, early warnings of disruptions, and joint innovation in product development or sourcing strategies.

Technology Integration: Consider implementing a Supply Chain Management (SCM) software that integrates all aspects of the supply chain. This provides real-time visibility into

inventory levels, production progress, and transportation status. Improved information flow facilitates better decision-making and faster response to issues.

Implement data-driven forecasting methods that consider historical sales data, market trends, and promotional activities. This can improve planning and optimize inventory levels to meet fluctuating demand.