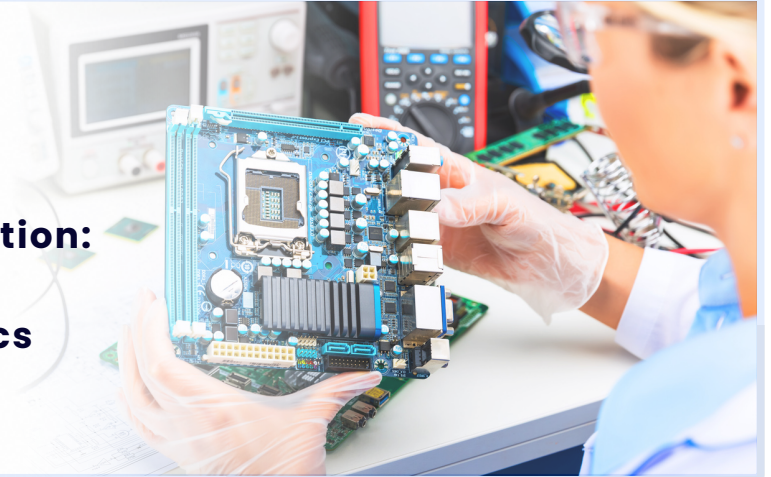


Power BI Dashboards In Action: Maximizing Supply Chain Efficiency For An Electronics Manufacturer



ABOUT CLIENT

A leading electronics manufacturing company is a key global player in the electronics industry. With a niche focus on producing high-end consumer electronics, they have a presence in over 8 countries, serving a diverse and widespread consumer base.

Additionally, they offer a diverse product range from smartphones and tablets to home entertainment systems and stand as a household name in many parts of the world

PROBLEM STATEMENT

Before using advanced analytics, our client had supply chain challenges in demand forecasting, shipment transportation, and logistics

- **Inaccurate Forecasts:** The client struggled with inaccuracies in their demand forecasts, leading to overproduction or stockouts.
- **Complex Market Dynamics:** The electronics market is highly dynamic, with rapidly changing consumer preferences and market trends, making it difficult to predict demand accurately.
- **Data Fragmentation:** Data from various sources was not integrated, leading to delays in decision-making and poor forecasting accuracy.
- **Inefficient Routes:** The client lacked optimized shipping routes, resulting in longer transit times and increased transportation costs.
- **Lack of Real-time Visibility:** Limited visibility into shipment status made it challenging to respond to delays or disruptions promptly.
- **Carrier Performance Issues:** Inconsistent carrier performance affected delivery reliability and customer satisfaction.
- **Inventory Management Issues:** The client struggled with excessive inventory in some locations and shortages in others, impacting overall operational efficiency.
- **Complex Supply Chain:** A complex supply chain with multiple warehouses and distribution centers made it difficult to coordinate operations effectively.
- **Operational Inefficiencies:** Manual processes and a lack of data-driven insights resulted in operational inefficiencies and increased costs.

SOLUTIONS

To tackle supply chain challenges, we designed three custom Power BI dashboards:

- **Demand Forecasting Analytics Dashboard:** Explored historical sales trends, market dynamics, and demand fluctuations. Real-time insights optimized production schedules, reduced excess inventory, and enhanced supply chain efficiency, giving a competitive edge in the electronics market.
- **Shipment Transportation Analytics Dashboard:** Provided real-time visibility into shipping routes, carrier performance, and shipment tracking. Data-driven decisions led to reduced transit time minimized shipping costs, and improved customer satisfaction with punctual deliveries.
- **Logistics Analytics Dashboard:** Offered a comprehensive view of the supply chain with interactive graphs. Real-time identification of bottlenecks improved warehouse operations, enhanced inventory management, and reduced operational costs, boosting overall efficiency.
- **Our data management and analytics support:** Ensured seamless integration from multiple sources, enhancing the real-time capabilities of these solutions. Together, these dashboards transformed our client's supply chain, delivering immediate benefits, cost savings, and increased customer satisfaction.

Industry

Electronics Manufacturing

Products used

Custom Power BI
Dashboards

Functionality Enable

Data science

Impact

15%

Increase in forecast accuracy, reducing instances of overproduction and stockouts

70

Reduction in transit times, translating to significant cost savings and a 10% decrease in transportation expenses.

38%

Reduction in operational costs due to better inventory management, leading to improved profitability

18%

Improvement in order fulfillment accuracy

60%

Improvement in overall customer satisfaction, positively impacting brand reputation

9%

Cost saving by proactively preventing penalties and optimizing insurance renewal processes

pro tip

Regularly update your Power BI dashboards to adapt to evolving market dynamics, ensuring continued relevance and effectiveness in decision-making.

Take the next step

Ready to revolutionize your supply chain? [Get in Touch](#)