

Transforming Forecasting And Resource Allocation In Consumer Electronics Manufacturing Unit



ABOUT CLIENT

- A manufacturing conglomerate specializing in consumer electronics, producing over 100,000 units of consumer electronics per year.
- Headquartered in Botswana, South Africa, the company operates in seven other countries as well.
- Over 20+ years of earned reputation for manufacturing and delivering high-quality, reliable, and innovative products.

PROBLEM STATEMENT

The client was looking for a solution to improve forecasting accuracy, streamline supply chain operations, and ensure efficient resource allocation.

- The client's existing forecasting processes were manual, which resulted in inaccurate demand forecasts and inventory shortages.
- Limited visibility into demand patterns, market trends, and customer preferences hampered the client's ability to make accurate forecasts.
- Inadequate inventory management and production scheduling result in costly disruptions in the supply chain, impacting customer satisfaction and profitability overall.
- They invested a significant amount of time in manual tasks such as data entry, reporting, and analysis, diverting their attention from strategic activities.

SOLUTIONS

We implemented a comprehensive Power BI analytics dashboard specifically designed for the client's supply chain forecasting processes.

- We gathered data from scattered sources, including historical sales data, market trends, customer feedback, and external factors like economic indicators and competitor analysis to visualize and monitor them.
- Our team of experts implemented advanced analytics techniques, such as time series forecasting, predictive modeling, and machine learning algorithms to develop accurate demand forecasts.
- The Power BI dashboard offered an interactive and intuitive interface, displaying real-time insights into demand patterns, inventory levels, and production schedules.
- The dashboard provided real-time automated reports on forecasting processes that saved huge amounts of time for the team that was otherwise spent on manual reporting.



Industry

Consumer Electronics Manufacturing



Products used

Power BI analytics dashboard



Functionality Enable

Data science



Impact

13%

Reduction in forecast errors with the forecast accuracy achieved from the implementation of the Power BI analytics dashboard.

11%

Reduction in manufacturing lead time along with timely delivery of products achieved

10%

Decrease in production costs with accurate demand forecasts and improved resource allocation strategies.

17%

Reduction in stockouts by minimizing supply chain disruptions through enhanced inventory management.

9%

Increase in profitability for the client in the previous FY.

The improved forecasting and supply chain optimization efforts increased customer satisfaction by ensuring product availability and on-time deliveries.



pro tip

Optimize consumer electronics manufacturing with data-driven insights through Power BI for improved efficiency and cost reduction



Take the next step

Experience Transformation with a Power BI dashboard. Leverage today