

# Leveraging Data Science to Increase Forecast Accuracy against **Inventory Loss**



### **Business Objective**

- To create a data-driven, statistically backed solution to improve the visibility of product availability, across business units.
- To help the company manage inventory to reduce losses
- To integrate data from multiple sources and use it for effective data analysis, and insight generation

# Client

Our client is an American multinational food manufacturing company in the food processing business for over 100 years

## **Industry**

Manufacturing and Logistics

#### **Function**

Sales and CRM

#### **Technology**

SQL, Tableau



# The Solution

TekLink delivered the following solution using SAS Enterprise Guide, Microsoft SQL Server, and Tableau Desktop:

- Dashboard creation in Tableau to showcase inventory performance, and risk metrics for all of the client's business.
- The management team makes the business decisions, by tracking the dashboard.
- The risk metrics allow the user to understand the inventory exposure of various products to the market.
- The team helped process the data with SAS from SAP, SQL Server, and SharePoint, to create a comprehensive data file.
- Provision to generate customized reports from the final model, based on requirements of individual business units.
- The reports are accessed by the business units on a weekly basis
- The team also has provided regular enhancements and updates to the existing solution
- The model is tuned to guide to the actual achieved in comparison to the predictions of inventory production and consumption.



#### **Outcomes and Benefits**

- Identification of products with high-risk inventory build-up due to various reasons such as:
  - Inadequate Planning (based on demand forecasting)
  - Past shipping performance
  - Planning performance (based on actual shipments and planned production)
  - Revenue Slippage (actual POS sales comparing with national average consumption)
- The metrics developed help the business plan the future steps including write-off amounts.

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Study