

# Strategic Plan of Action

Can we accurately predict the stock levels of products based on sales data and sensor data on an hourly basis in order to more intelligently procure products from our suppliers?

## Data Modeling

- For the modeling, all the data in the 3 tables will be used.

## Strategic Planning

- Business Understanding
- Data Understanding
- Data Preparation
  - Use the data model to merge the data, then clean the data and remove any outliers.
- Feature Engineering
  - Create new features and transform the dataset ready for predictive modelling.
- Model Development
  - Testing algorithms with cross – validation.
- Evaluation of results and Iteration
  - Measuring performance metrics.
- Development of production algorithm
  - Productionising the algorithm as an API
- QA and DevOps
  - To ensure the model is performing as expected and to integrate the model.