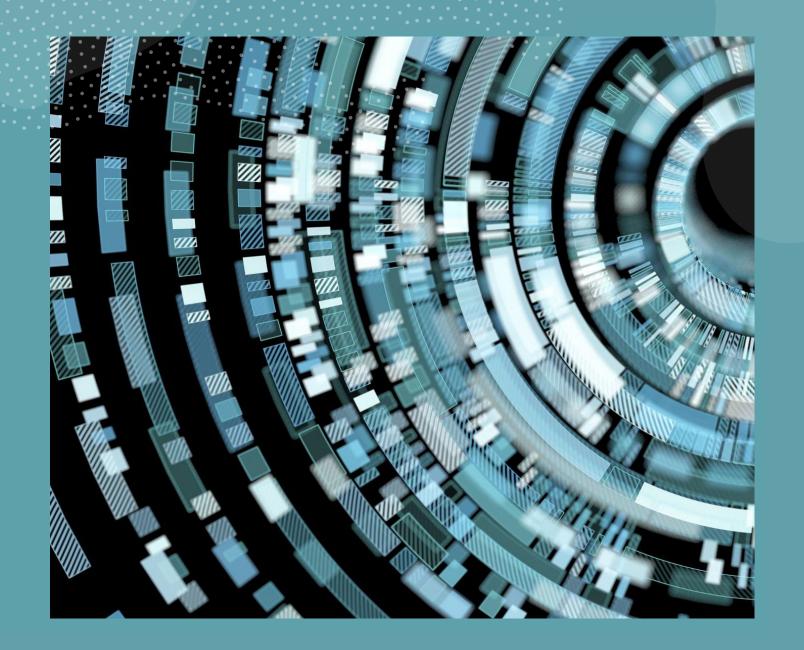
ERPsim Analytics

Team: GG

CIS 3200

May 9, 2023

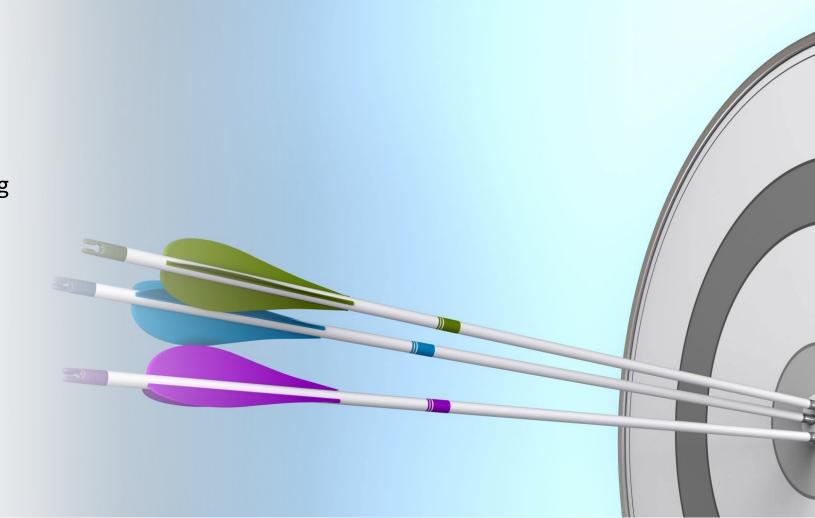
Dr. Wang



Objectives/Goals

Business Objectives:

- Evaluate business performance in each department by analyzing historical data.
- Analyze various business processes to identify areas of improvement and increase the company's overall evaluation.



Planning Manager – Xavier Colin



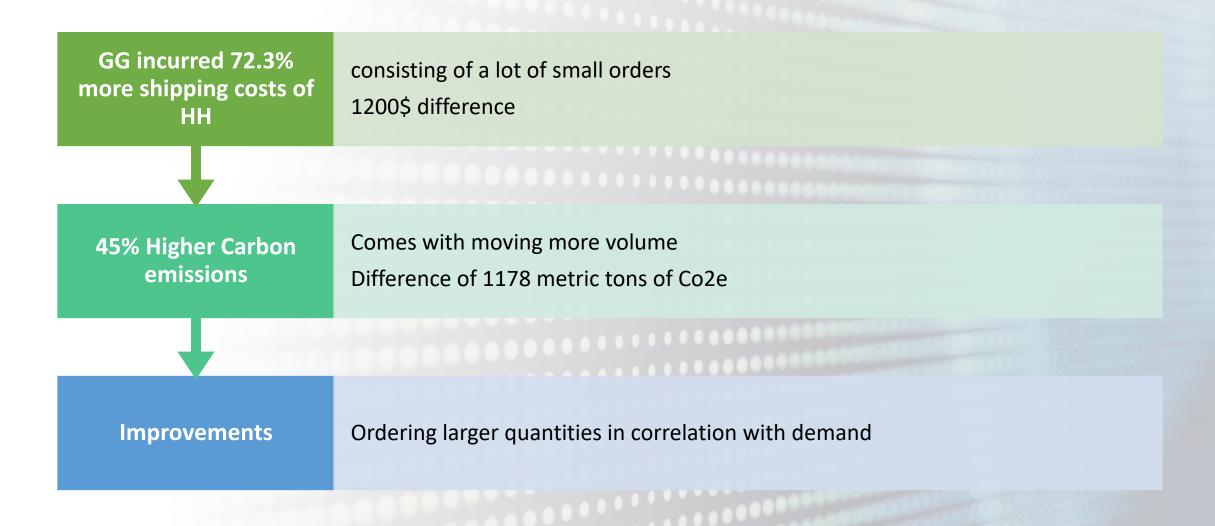
Goals:

 The main goal of our department is to make sure that the inventory level stay at a minimum to provide materials to customers.

Tasks:

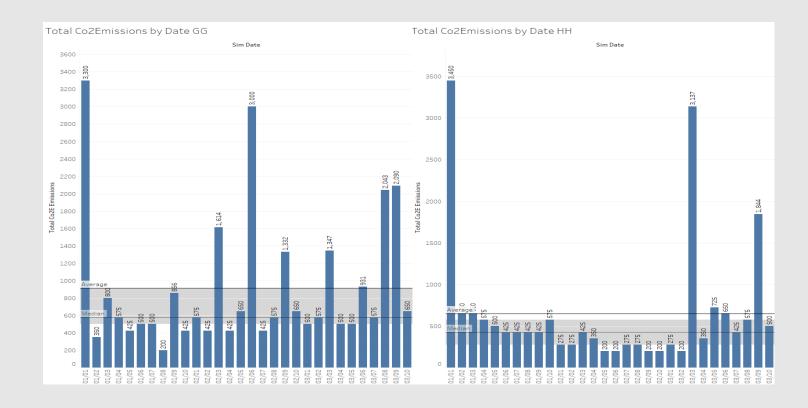
- Creation of Requirements
- Create a purchasing plan
- Track material delivery
- Adjust Material Plans over time

Planning Manager Findings – Alan To



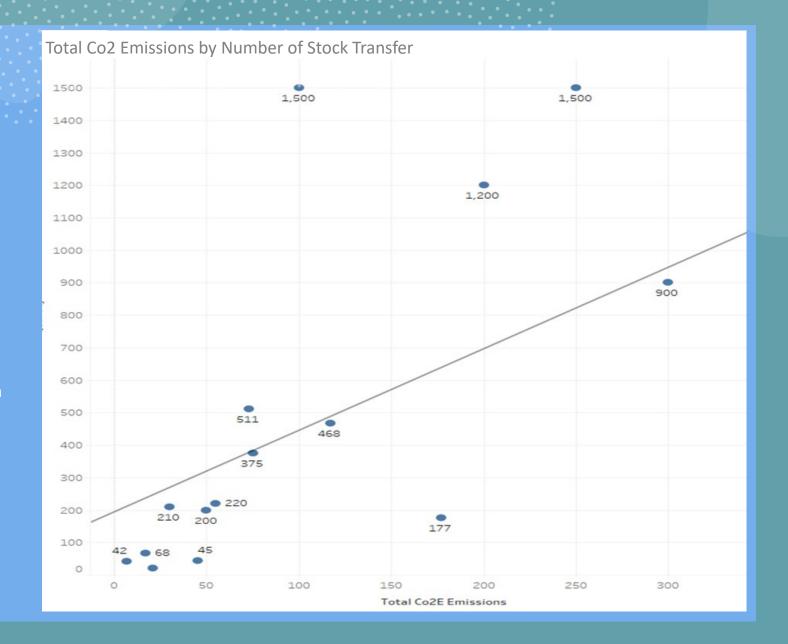
Data Analyst Findings – Tim Tran

- The bar chart shows the total Co2 emissions generated by company GG and company HH.
- It Is found that company GG has higher average and median of Co2 emission compared to company HH.
- The visualization can provide insights into part of the overall performance of the company and how we must lower our Co2 emission in order to increase the company's overall evaluation.



Data Analyst Finding s – Tim Tran

- The visualization shows a positive correlation between the quantity of stock transfer and energy emissions.
- The result could have significant implications for the organization's strategic goals.
- The result can provide valuable insights into ways the company can implement to be more energy efficient through refining inbound and outbound shipments.



Material Management – Uraja Lad



Direct Production and Inventory Control
Shipping and Receiving
Material Storage

Stock Transfe Planning

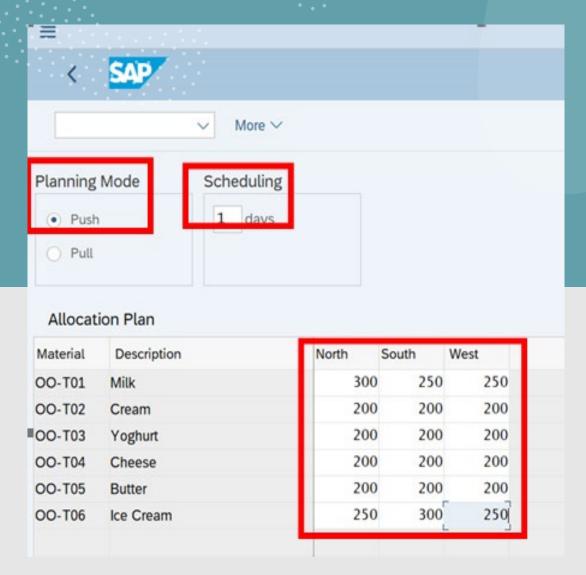
Push or Pull

Company Sold The Most Quantity? - Lucinda Le



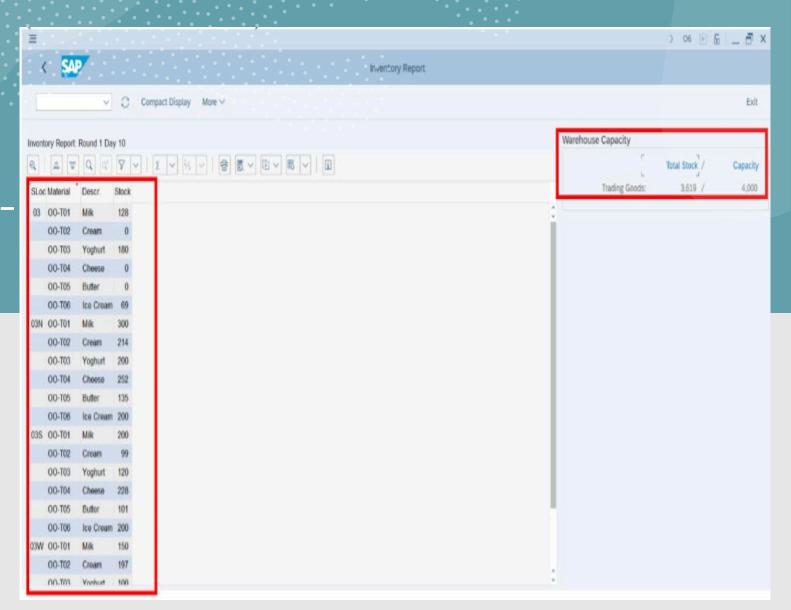
Material Management (During the Game) -Franco Romani

- During the game, it was the Material Management's responsibility to plan the stock transfer between all the branches.
- As shown in the figure, each plant needs to keep inventory in stock in order to keep selling.
- Changing the planning mode from push and pool had an effect as well since pull mode would try and keep up with existing orders/current demand, whereas push planning would anticipate customer needs.



Material Management (During the Game) Franco Romani

 While making sure stock inventory is being sent to the right places, as part of material management we found ourselves constantly refreshing the inventory page to make sure things would keep running smoothly and not let inventory go to zero.



Sale Distribution Initial Strategy

Use the chart to get a clear idea

Found which items sold fastest

Changed prices based on the first round

Communicated with teammates

Derek Dung

Changes in SD through the Simulation

Changing the prices throughout the process by:

- Looking at the Summary Sales Report
- Looking at the Detail Sales Report
- Looking at the Inventory Report



Results of Sales Distribution Strategy

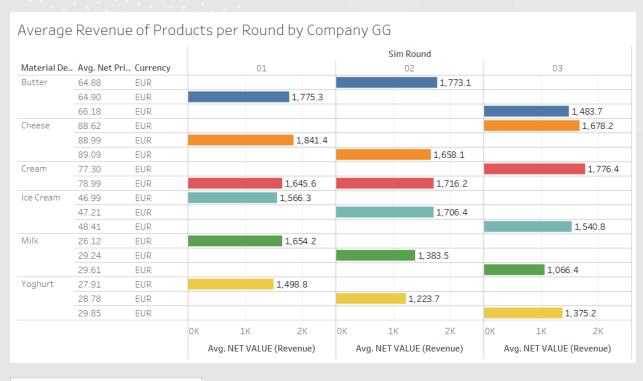
- This figure shows the average quantity of products that was ordered per round at our set price points.
- For our company, milk (on average) had the highest quantity ordered throughout the simulation. Yoghurt was the 2nd most ordered item for our company.
- While cheese had the lowest quantity ordered throughout the simulation for our company.





Results of Sales Distribution Strategy (cont.)

- This figure shows the average revenue of products that was generated per round at our set price points.
- We found that cheese performed significantly better revenue wise than milk which was the most ordered product at our company.
 - This was due to the lower price, our company charged for milk compared to the high price charged for cheese.
 - Yoghurt also followed this same trend and produced the 2nd lowest revenue while being the 2nd more ordered product for our company.





CEO Findings: Arin

Were there any challenges when running the game?

Understanding the correlation between price and sales

Strategizing when to restock and what is the best price for each item

How was communicating between different roles?

Gathering up to date info between days was the most difficult

Communicating between roles on financial strategy

CEO Findings: Esdras

Are you satisfied with the results of each round?

From the results of multiple rounds yes, we are satisfied but there are things to work on. For example, It would have been beneficial for us to adjust our prices based on our inventory levels, either raising or lowering them as needed, to account for the delay in restocking. This approach could have helped us offset the lead time required for resupplying our stock.

What would you do differently next time?

To improve our performance in the game, we could have taken a more proactive approach and improve our communication and coordination among our sales, materials planning, analytics, and distribution teams. This would have enabled us to establish greater control over these critical areas of our operation.

Thank You

