Supply Chain Planning or Improvement

Company Description:
Fortune 500 office material producer

Short Project Name:
Logistics analysis to optimize Fleet and Cross Dock for Western Canada and Western US regions.

Project Description and Deliverables:
We have fourteen manufacturing sites in the domestic US that ship products all over North America. We also operate a Cross Dock facility and a company Fleet that help consolidate and distribute products. I want to increase the utilization of our Fleet and Cross Dock as well as increase the number of pool points we have in order to:

1. Decrease transportation costs
2. Increase delivery reliability
3. Decrease LTL damage
4. Decrease network inventory

Our target areas will be Western Canada (BC, AB, SK, MB) and the Western US. This project will require analyzing customers that ship from all of our locations. Which ones should be consolidated at our cross dock? Where should we establish new pool locations? How should we set up our line hauls? We are also working on implementing a “pull planning process” in which we are trying to consolidate our C and D stock items back to our manufacturing sites. This will provide many benefits to our operations and supply chain but with a service challenge. How can we meet service expectations by increasing the distance to our customers? The same line hauls that we use to establish pool points may also allow us to consolidate the C and D items back to our plants and still meet service.

Key Project Deliverables:

1. List of pool distribution locations and customers
2. Carrier partners
3. Line haul details: number, frequency, route, cut time
4. Route density
5. Distribution cost change: Transportation and Inventory
6. Quality impact (reduction in damage complaints)
7. Service impact summary

Company Description:
A specialty chocolate company

Short Project Name:
Project Description and Deliverables:
Phase 1-create product costing spreadsheet based on activity-based costing for each SKU.
Phase 2-allocate overhead to show profitability per SKU.
Phase 3-research supply chain to understand volumes needed to reach desired margins and efficiencies.
Key Deliverables
- Spreadsheet with activity-based costing of each SKU
- Spreadsheet with forecasted margins based on supply chain analysis
- What volumes do we need to achieve to reach our desired margins?
- Any possible findings of how to be more profitable through our supply chain

Company Description:
A vintage toy & candy store

Short Project Name:
Supply Chain Inventory/Buying Analysis

Project Description and Deliverables:
With over 5,000 unique items in our stores we need help understanding the inventory turns and establishing the best procedures for buying/receiving. We have been in business for over 3 years and have struggled to establish a profitable buying/inventory management system for our concept. We have an overwhelming number of items in the store and it has been difficult to establish trends and turns. We need help understanding the supply chain side of our business.
Key Deliverables
Detailed analysis and recommendations for our inventory management

Company Description:
Working closely with industry partners and raw material suppliers, we can provide capsules, tablets, soft-gels, powder, liquid, cosmetics, and many other cutting edge delivery systems. Simply bring us your idea and we will provide a turn-key solution! Manufacturing a quality product is only half the battle. We have partnered with a world-class graphic designer and team of labeling experts that can create your own unique private label that will truly stand out on the shelves. We also carry a trusted line of premium nutraceutical, vitamin, and sports nutritional supplements to meet your retail and distribution needs.

Short Project Name:
Strategic Sourcing and Procurement Cost Reduction

Project Description and Deliverables:
Develop improved sourcing strategies and a cost reduction plan for procurement.
Assist in developing an improved sourcing strategy. Work closely with operations and supply management to develop real solutions. Will involve identifying new potential suppliers as well as making suggestions for adjusting current supplier relationships to better fit the needs of our customers. In addition, this project will include identifying ways to save costs and increase efficiency in procurement. This project will involve a significant amount of hands-on experience in the field of supply chain and operations management and will require a full nine hours each week for each student intern involved.

Key Deliverables
A detailed written report and brief presentation which includes: 2-3 new detailed sourcing strategies, suggestions for improvement of current supplier relationships, and suggestions for cost reduction and increased efficiency in procurement and warehouse operations.