

Key Takeaways:

- Is Network Strategy Design something your company should consider – who benefits and when
- The critical components and steps necessary for a successful Network Strategy Design project
- How to determine Inventory Flow what are the key considerations and best practices
- Best practices and lessons learned from companies that have successfully redesigned their supply chain network
- Typical ROI, time to value and benefits attained

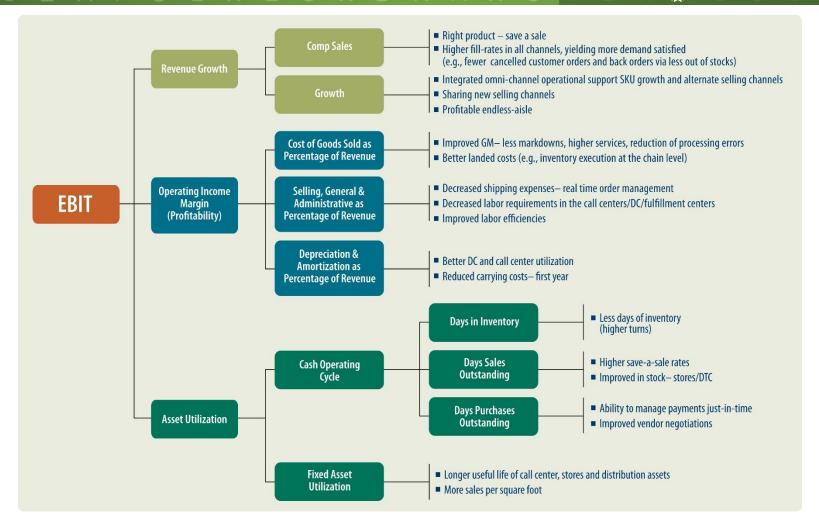


FIND WHAT'S NEXT.



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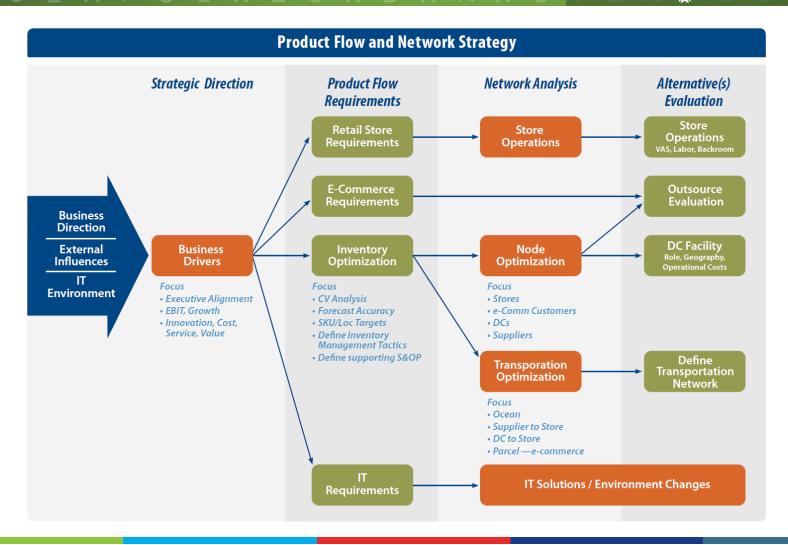




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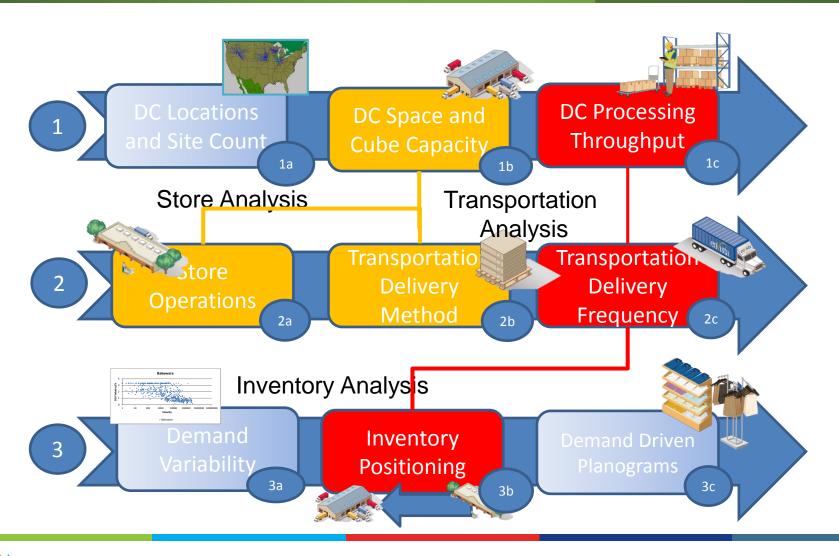






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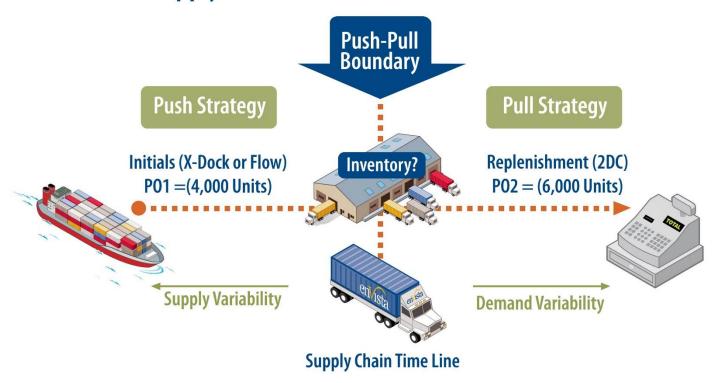




Primary Strategy	Source of Advantage	Basis of Competition	Key Supply Chain Contributor	
Innovation	Brand and unique technolgy	Desirable and innovative products	Time to market	
Cost	Cost-efficient operations	Lowest price in the product catagory	Efficient, low cost infrastructure	
Service	Superb service	Tailored to meet customer specific needs	Designed "from the customer in"	
Quality	Safest, most reliable products	Product you can count on	Supply chain excellence and quality control	



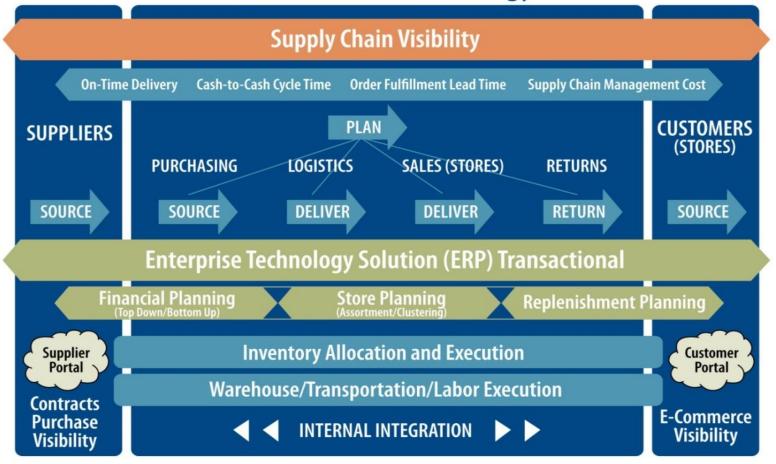
Push-Pull Supply Chains







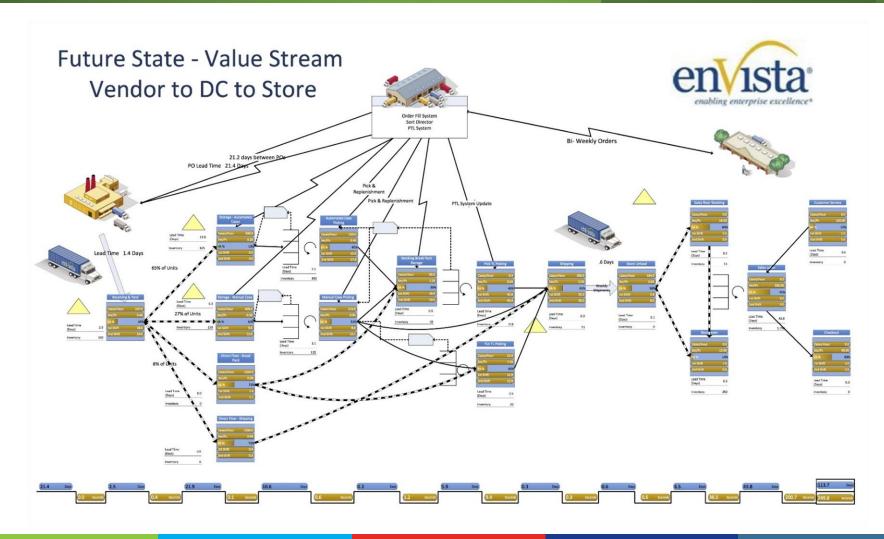
Collaborative Technology





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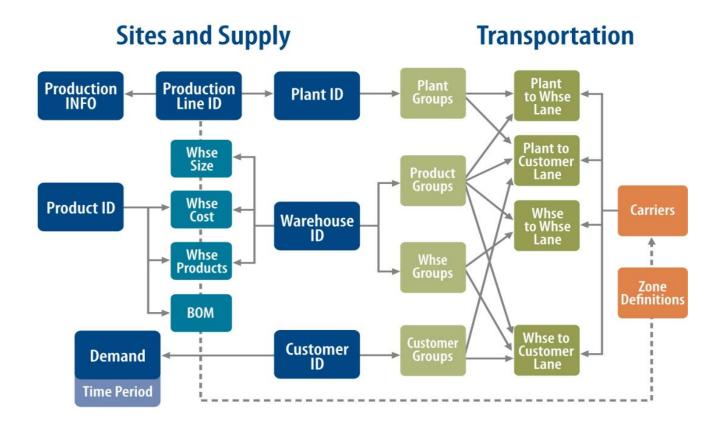
Methodology | Network Analysis **Network Validation Requirements Planning Network Design Identify Alternative Networks Project Planning** Finalize Quantitative and Qualitative Analysis **Document Marketing Requirements Run Iterative Models Develop Transition Plan Develop Total Cost of Deployment Document Current Network Develop Quantitative Analysis Document Operational Requirements Develop Qualitative Analysis ROI** Analysis **Support Site Selection Document Transportation Requirements** Perform Sensitivity Analysis **Data Collections and Validation Finalize Network Develop Final Solution Document Technical Requirements Identify Operational Improvements Initiate Facility Planning Develop and Validate Base-line Network Develop Facility Capacity Recommend Solution** PROJECT MANAGEMENT







Traditional Supply Chain Data Model and Request





Inventory Position Moves the Needle



Driver	Impact to Inventory Safety Stock	Driver Suggest By	
Reduce Forecast Error	<1%	Management	
Longer lead-times to Customer	<1%	Management	
Inventory Positioning	20% – 30%	Global Optimization	
Synchronization	0 – 19%	Global Optimization	
Changing Shipment Frequency	5% – 10%	Global Optimization	
Changing Transit Times	5% – 10%	Global Optimization	

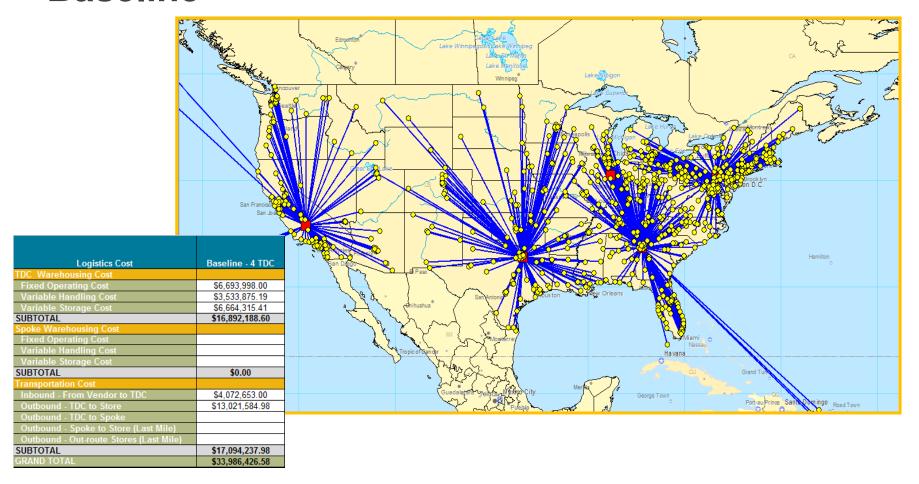
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Baseline

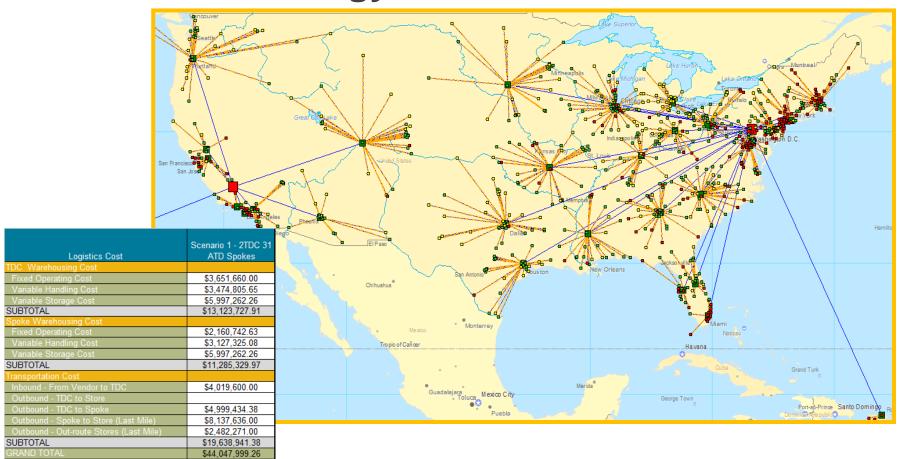




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Alternative Strategy





CV is a measure of "predictability

- Average Daily Demand/STD DEV of the Demand in terms of units sold
- A lower CV value is easier to forecast and therefore can be pushed/continuous flow of inventory. Due to higher predictability and in theory less inventory is required in the supply chain. Inventory can be positioned farther down-stream (stores)
- A higher CV values is harder to forecast and therefore should be pulled. Due lower predictability inventory should be positioned further up-stream (TDC or Spoke). In theory you pull the inventory, however inventory positioning (TDC or Spoke) is based upon customer tolerance time as well



What is driving the demand (dependent or independent variables)?

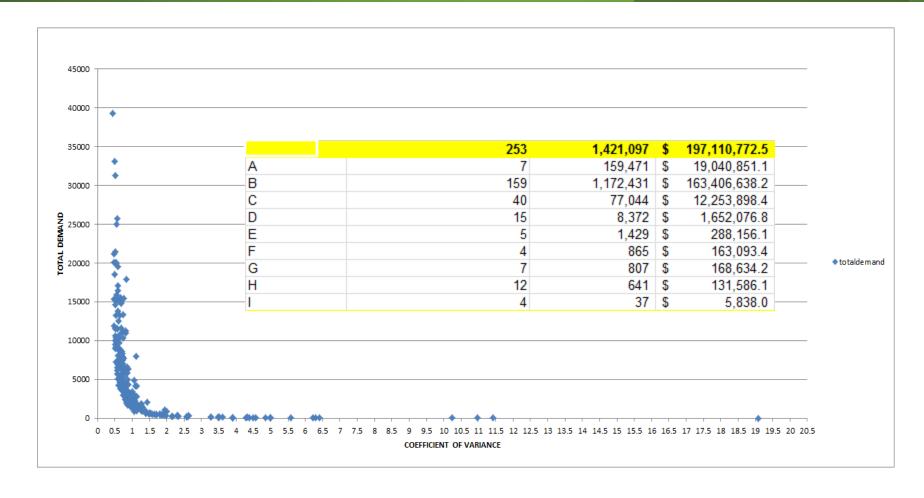
- Price/Value
- Promotions
- Tire Size (Fit)
- MFG Lead Time
- MFG Fill Rate
- Co-Branded
- Brand Loyalty
- Brand Strategy
- Original Equipment Replacement
- Commission Structure
- MFG Subsidies



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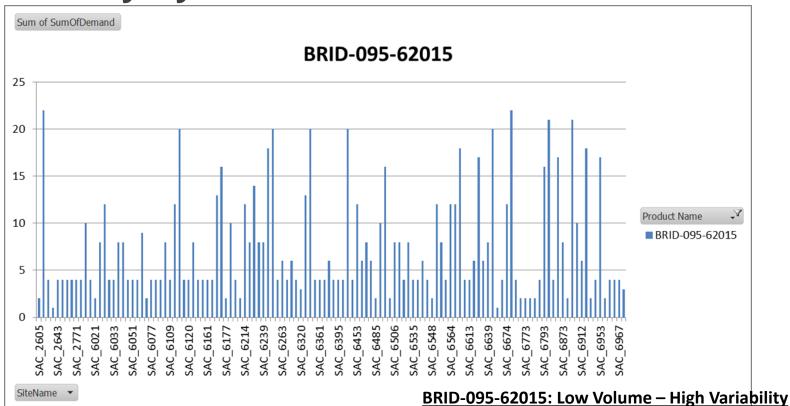




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Variability by Store



126 / 834 (15%) of stores demand this product 65 / 126 (52%) of stores only have 1 Sale all Year

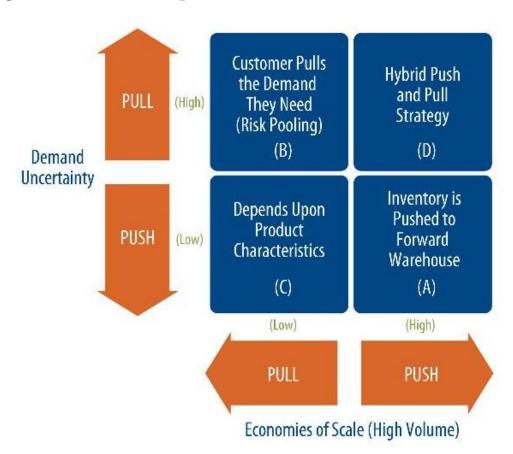


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Push or Pull Inventory based upon

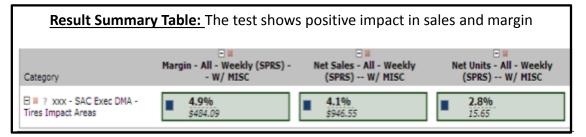
Demand Variability



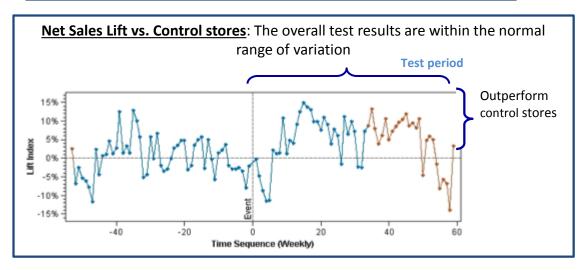


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	Result by Markets: Chicago and New York both show positive lifts									
	~DMA Info for SAC Updated 8/16/2010	# of sites	# of outliers	Estimatedimpact	Wtd.Avq. <u>% Lift</u> ↓↓	Wtd.Avq. Significance				
₽	501 - NEW YORK	28	1	\$1,147.76	4.2%	99.8%				
#	602 - CHICAGO	22	1	\$690.45	4.1%	98.6%				



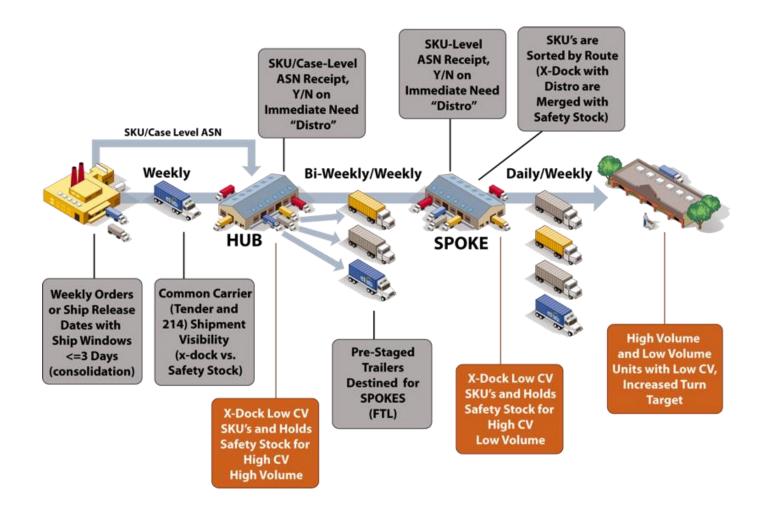




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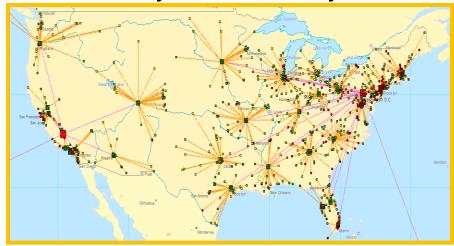


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- One time inventory reduction of \$22.9M
- \$35.9M year over year reduction of inventory (5 years)
- Carrying Cost Reduction = \$2.75M
- Improved Tire Inventory Turns = 5.92 from 3.58
- Improved Inventory Turn Over = 6.45 from 3.91 (improved cash flow)
- Proposed Increased Sales Uplift = \$43.8m over a two year period (based upon current H&S test model)

January 2013 – January 2017



Scenario	NPV	IRR
enVista H&S (no-lift)	\$4.6M	112%
enVista H&S (5%/2% AB Stores)	\$5.38M	134%
enVista H&S (12%/5% AB Stores)	\$7.2M	177.%
Client H&S (no-lift)	\$1.0M	44.3%



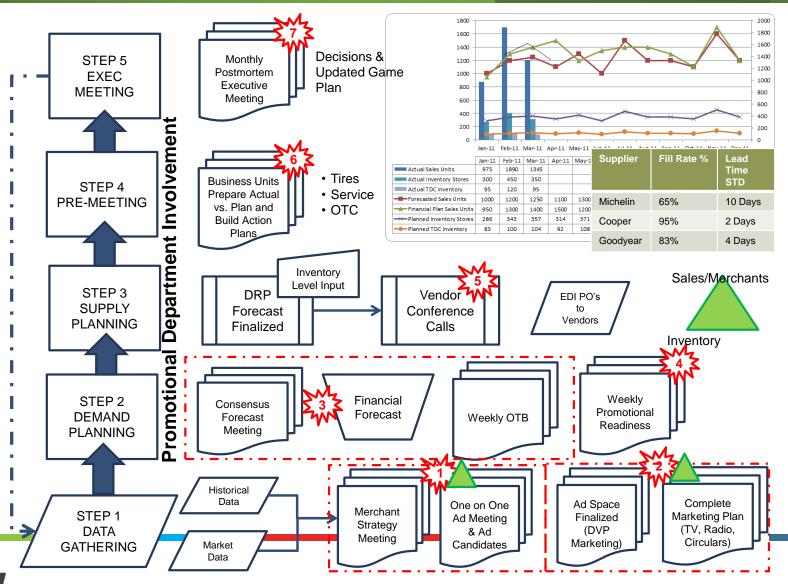
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