

Supply Chain Network Analysis



Improved customer service levels, as well as reductions in inventory, transportation and operations costs, are benefits realized when the supply chain network is operating at optimum efficiency.

Minimize Costs While Maintaining Service

Today, many companies face a challenge that seems burdened with contradiction: how to reduce transportation and operations costs while increasing customer service levels. Designing the right global supply chain network provides a solution to both issues. Although there are many factors to consider when designing a supply chain network, with the right partner, the process is not overly complicated. The key is to analyze your network across the entire supply chain spectrum from source to consumption. Unlike other firms that consider DC-to-store or DC-to-customer, at enVista our evaluation and design starts at the manufacturing (often overseas) site and moves forward to include freight forwarders, origin port, customs, and then the distribution center.

Implementing an optimal network is especially beneficial to those companies who must effectively consolidate two different networks prior to or following a merger, as well as those who are considering expanding into new territories. Organizations that put off designing a new network, or making improvements to an existing one due to perceived complexities or complications, are actually putting their competitive advantage at risk.

Maximize Results

With solid, proven methodologies and the right modeling tools, enVista is an expert resource for solving any supply chain network problem. We work with a broad range of vertical industries and, while specific industry challenges differ, many of the variables impacting network design remain the same.

- What are the optimal numbers, locations and capacities of suppliers, plants and production lines and processes?
- What are the right numbers, locations and sizes of distribution centers, cross docks, branch warehouses, etc.?
- What is the best way to assign customers and products to distribution centers?
- How do changes to production and distribution capabilities impact cost and service?
- What are the trade-offs between:
 - Inbound and outbound transportation costs?
 - Transportation, distribution center and inventory costs?
 - Costs and service levels? Today, many companies face a challenge that seems burdened with contradiction: how to reduce transportation

Methodology Supply Chain Network Design		
Requirements Planning	Network Design	Network Validation
Project Planning & Alignment	Identify Alternative Networks	Finalize Qualitative and Quantitative Analysis
Document Marketing Requirements	Run Iterative Models	Develop Transition Plan
Document Current Network	Develop Quantitative Analysis	Develop Total Cost of Deployment
Document Operational Requirements	Develop Qualitative Analysis	ROI Analysis
Document Transportation Requirements	Perform Sensitivity Analysis	Develop Final Situation
Data Collection and Validation	Finalize Network	Recommend Solution
Develop Base-line Network	Identify Operational Requirements	Support Site Selection
Validate Base-line Network	Develop Facility Capacity	Initiate Facility Planning

Models and Methods to Solution Development

Our tools and our methods have been honed to perfection. At enVista, we get results for our clients by taking a unique, step-by-step approach to improving supply chain performance.

1. Define problem and develop company's end goals and objectives. Complete understanding of management, marketing, sales, finance, operational constraints, timelines and risk tolerance is critical to development of a solution.
2. Design current baseline comparison model based on data aggregation.
3. Optimize future network based on organization's goals and objectives. Business risks, as well as transition and overall costs, must be considered before final recommendation.
4. Complete sensitivity analysis on optimal network to ensure network model responds to potential variability in data inputs.

5. Develop ROI model that validates calculations for net present value, internal rate of return and payback period sums for each year of optimal network.
6. Create a transition plan that accurately captures costs and risks to move from baseline network to optimal network.

We take great pride in our ability to deliver solutions that balance costs and risks while performing with optimal return on investment. While working with a variety of manufacturing, purchasing and distribution-centric supply chains, we address many levels of complexity, from global, multi-plant manufacturing to domestic, single or multi-channel networks.

In today's competitive market, it is imperative that companies continually evaluate their supply chain efficiency and opportunities for cost containment, avoidance and reduction.

Benefits	
<ul style="list-style-type: none"> • Proven methodology that produces a fast return in a short period of time • 5-10% total supply chain cost reduction (transportation, distribution and inventory) • Improved customer service 	<ul style="list-style-type: none"> • Organizational alignment & restructuring • Practical strategies that mitigate risk • Innovative strategies that create competitive differentiation

About enVista

enVista is the leading supply chain and enterprise consulting firm and the premier provider of supply chain technology & strategy services, material handling automation & robotics, Microsoft solutions and IT managed services. With 20+ years of unmatched domain expertise, enVista serves thousands of leading brands. enVista's unique ability to consult, implement and operate across supply chain, IT and enterprise technology solutions allows companies to leverage enVista as a trusted advisor across their enterprises.

Consulting and solutions delivery is in our DNA.

Let's have a conversation.®

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Is It Time for a New Network Strategy?

If you have not looked at your network strategy lately, you are likely either sacrificing customer service or spending too much money. The signs below may indicate it's time to re-evaluate your current network strategy.



A successful supply chain network design will deliver a competitive advantage and pinpoint ways to:

- Reduce costs
- Improve service levels
- Reduce overall cycle times
- Streamline all processes and systems