The Seven Principles of Supply Chain Management
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To balance customers' demands with the need for profitable growth, many companies have moved aggressively to improve supply chain management. Their efforts reflect seven principles of supply chain management that, working together, can enhance revenue, cost control, and asset utilization as well as customer satisfaction. Implemented successfully, these principles prove convincingly that you can please customers and enjoy profitable growth from doing so.

Managers increasingly find themselves assigned the role of the rope in a very real tug of war—pulled one way by customers' mounting demands and the opposite way by the company's need for growth and profitability. Many have discovered that they can keep the rope from snapping and, in fact, achieve profitable growth by treating supply chain management as a strategic variable.

These savvy managers recognize two important things. First, they think about the supply chain as a whole—all the links involved in managing the flow of products, services, and information from their suppliers' suppliers to their customers' customers (that is, channel customers, such as distributors and retailers). Second, they pursue tangible outcomes—focused on revenue growth, asset utilization, and cost reduction.

Rejecting the traditional view of a company and its component parts as distinct functional entities, these managers realize that the real measure of success is how well activities coordinate across the supply chain to create value for customers, while increasing the profitability of every link in the chain. In the process, some even redefine the competitive game; consider the success of Procter & Gamble (see "The Power of Partnership").

Our analysis of initiatives to improve supply chain management by more than 100 manufacturers, distributors, and retailers shows many making great progress, while others fail dismally. The successful initiatives that have contributed to profitable growth share several themes. They are typically broad efforts, combining both strategic and tactical change. They also reflect a holistic approach, viewing the supply chain from end to end and orchestrating efforts so that the whole improvement achieved—in revenue, costs, and asset utilization—is greater than the sum of its parts.

Unsuccessful efforts likewise have a consistent profile. They tend to be functionally defined and narrowly focused, and they lack sustaining infrastructure. Uncoordinated change activity erupts in every department and function and puts the company in grave danger of "dying the death of a thousand initiatives." The source of failure is seldom management's difficulty

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identifying what needs fixing. The issue is determining how to develop and execute a supply chain transformation plan that can move multiple, complex operating entities (both internal and external) in the same direction.

To help managers decide how to proceed, we revisited the supply chain initiatives undertaken by the most successful manufacturers and distilled from their experience seven fundamental principles of supply chain management.

Adherence to the seven principles transforms the tug of war between customer service and profitable growth into a balancing act. By determining what customers want and how to coordinate efforts across the supply chain to meet those requirements faster, cheaper, and better, companies enhance both customersatisfaction and their own financial performance. But the balance is not easy to strike or to sustain. As this article will demonstrate, each company—whether a supplier, manufacturer, distributor, or retailer—must find the way to combine all seven principles into a supply chain strategy that best fits its particular situation. No two companies will reach the same conclusion.

**Principle 1: Segment customers based on the service needs of distinct groups and adapt the supply chain to serve these segments profitably.**

Segmentation has traditionally grouped customers by industry, product, or trade channel and then taken a one-size-fits-all approach to serving them, averaging costs and profitability within and across segments. The typical result, as one manager admits: "We don't fully understand the relative value customers place on our service offerings."

But segmenting customers by their particular needs equips a company to develop a portfolio of services tailored to various segments. Surveys, interviews, and industry research have been the traditional tools for defining key segmentation criteria.

Today, progressive manufacturers are turning to such advanced analytical techniques as cluster and conjoint analysis to measure customer tradeoffs and predict the marginal profitability of each segment. One manufacturer of home improvement and building products bases segmentation on sales and merchandising needs and order fulfillment requirements. Others are finding that criteria such as technical support and account planning activities drive segmentation.

Viewed from the classic perspective, this needs-based segmentation may produce some odd couples. **For the manufacturer in Exhibit 1,** "innovators" include an industrial distributor (Grainger), a do-it-yourself retailer (Home Depot), and a mass merchant (Wal-Mart).
Research also can establish the services valued by all customers versus those valued only by certain segments.

Then the company should apply a disciplined, cross-functional process to develop a menu of supply chain programs and create segment-specific service packages that combine basic services for everyone with the services from the menu that will have the greatest appeal to particular segments. This does not mean tailoring for the sake of tailoring. The goal is to find the degree of segmentation and variation needed to maximize profitability.

All the segments in Exhibit 1, for example, value consistent delivery. But those in the lower left quadrant have little interest in the advanced supply chain management programs, such as customized packaging and advance shipment notification, that appeal greatly to those in the upper right quadrant.

Of course, customer needs and preferences do not tell the whole story. The service packages must turn a profit, and many companies lack adequate financial understanding of their customers' and their own costs to gauge likely profitability. "We don't know which customers are most profitable to serve, which will generate the highest long-term profitability, or which we are most likely to retain," confessed a leading industrial manufacturer. This knowledge is essential to correctly matching accounts with service packages—which translates into revenues enhanced through some combination of increases in volume and/or price.

Only by understanding their costs at the activity level and using that understanding to strengthen fiscal control can companies profitably deliver value to customers. One "successful" food manufacturer aggressively marketed vendor-managed inventory to all customer segments and boosted sales. But subsequent activity-based cost analysis found that one segment actually lost nine cents a case on an operating margin basis.

Most companies have a significant untapped opportunity to better align their investment in a particular customer relationship with the return that customer generates. To do so, companies must analyze the profitability of segments, plus the costs and benefits of alternate service packages, to ensure a reasonable return on their investment and the most profitable allocation of resources. To strike and sustain the appropriate balance between service and profitability, most companies will need to set priorities—sequencing the rollout of tailored programs to capitalize on existing capabilities and maximize customer impact.

**Principle 2: Customize the logistics network to the service requirements and profitability of customer segments.**

Companies have traditionally taken a monolithic approach to logistics network...
design in organizing their inventory, warehouse, and transportation activities to meet a single standard. For some, the logistics network has been designed to meet the average service requirements of all customers; for others, to satisfy the toughest requirements of a single customer segment.

Neither approach can achieve superior asset utilization or accommodate the segment-specific logistics necessary for excellent supply chain management. In many industries, especially such commodity industries as fine paper, tailoring distribution assets to meet individual logistics requirements is a greater source of differentiation for a manufacturer than the actual products, which are largely undifferentiated.

One paper company found radically different customer service demands in two key segments—large publishers with long lead times and small regional printers needing delivery within 24 hours. To serve both segments well and achieve profitable growth, the manufacturer designed a multi-level logistics network with three full-stocking distribution centers and 46 quick-response cross-docks, stocking only fast-moving items, located near the regional printers.

Return on assets and revenues improved substantially thanks to the new inventory deployment strategy, supported by outsourcing of management of the quick response centers and the transportation activities.

This example highlights several key characteristics of segment-specific services. The logistics network probably will be more complex, involving alliances with third-party logistics providers, and will certainly have to be more flexible than the traditional network. As a result, fundamental changes in the mission, number, location, and ownership structure of warehouses are typically necessary. Finally, the network will require more robust logistics planning enabled by "real-time" decision-support tools that can handle flow-through distribution and more time-sensitive approaches to managing transportation.

Even less conventional thinking about logistics is emerging in some industries, where shared customers and similar geographic approaches result in redundant networks. Combining logistics for both complementary and competing firms under third-party ownership can provide a lower-cost industrywide solution.

As shown in Exhibit 2, the food and packaged goods industry might well cut logistics costs 42 percent per case and reduce total days in the system 73 percent by integrating logistics assets across the industry, with extensive participation by third-party logistics providers.
Principle 3: Listen to market signals and align demand planning accordingly across the supply chain, ensuring consistent forecasts and optimal resource allocation.

Forecasting has historically proceeded silo by silo, with multiple departments independently creating forecasts for the same products—all using their own assumptions, measures, and level of detail. Many consult the marketplace only informally, and few involve their major suppliers in the process. The functional orientation of many companies has just made things worse, allowing sales forecasts to envision growing demand while manufacturing second-guesses how much product the market actually wants.

Such independent, self-centered forecasting is incompatible with excellent supply chain management, as one manufacturer of photographic imaging found. This manufacturer nicknamed the warehouse "the accordion" because it had to cope with a production operation that stuck to a stable schedule, while the revenue-focused sales force routinely triggered cyclical demand by offering deep discounts at the end of each quarter. The manufacturer realized the need to implement a cross-functional planning process, supported by demand planning software.

Initial results were dismaying. Sales volume dropped sharply, as excess inventory had to be consumed by the marketplace. But today, the company enjoys lower inventory and warehousing costs and much greater ability to maintain price levels and limit discounting. Like all the best sales and operations planning (S&OP), this process recognizes the needs and objectives of each functional group but bases final operational decisions on overall profit potential.

Excellent supply chain management, in fact, calls for S&OP that transcends company boundaries to involve every link of the supply chain (from the supplier's supplier to the customer's customer) in developing forecasts collaboratively and then maintaining the required capacity across the operations. Channel-wide S&OP can detect early warning signals of demand lurking in customer promotions, ordering patterns, and restocking algorithms and takes into account vendor and carrier capabilities, capacity, and constraints.

Exhibit 3 illustrates the difference that cross supply chain planning has made for one manufacturer of laboratory products. As shown on the left of this exhibit, uneven distributor demand unsynchronized with actual end-user demand made real inventory needs impossible to predict and forced high inventory levels that still failed to prevent out-of-stocks.

Distributors began sharing information on actual (and fairly stable) end-user
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demand with the manufacturer, and the manufacturer began managing inventory for the distributors. This coordination of manufacturing scheduling and inventory deployment decisions paid off handsomely, improving fill rates, asset turns, and cost metrics for all concerned.

Such demand-based planning takes time to get right. The first step is typically a pilot of a leading-edge program, such as vendor-managed inventory or jointly managed forecasting and replenishment, conducted in conjunction with a few high-volume, sophisticated partners in the supply chain. As the partners refine their collaborative forecasting, planned orders become firm orders. The customer no longer sends a purchase order, and the manufacturer commits inventory from its available-to-promise stock. After this pilot formalizes a planning process, infrastructure, and measures, the program expands to include other channel partners, until enough are participating to facilitate quantum improvement in utilization of manufacturing and logistics assets and cost performance.

**Principle 4: Differentiate product closer to the customer and speed conversion across the supply chain.**

Manufacturers have traditionally based production goals on projections of the demand for finished goods and have stockpiled inventory to offset forecasting errors. These manufacturers tend to view lead times in the system as fixed, with only a finite window of time in which to convert materials into products that meet customer requirements.

While even such traditionalists can make progress in cutting costs through set-up reduction, cellular manufacturing, and just-in-time techniques, great potential remains in less traditional strategies such as mass customization. For example, manufacturers striving to meet individual customer needs efficiently through strategies such as mass customization are discovering the value of postponement. They are delaying product differentiation to the last possible moment and thus overcoming the problem described by one manager of a health and beauty care products warehouse: "With the proliferation of packaging requirements from major retailers, our number of SKUs (stock keeping units) has exploded. We have situations daily where we backorder one retailer, like Wal-Mart, on an item that is identical to an in-stock item, except for its packaging. Sometimes we even tear boxes apart and repack by hand!"

The hardware manufacturer in Exhibit 4 solved this problem by determining the point at which a standard bracket turned into multiple SKUs. This point came when the bracket had to be packaged 16
customer requirements. The manufacturer further concluded that overall demand for these brackets is relatively stable and easy to forecast, while demand for the 16 SKUs is much more volatile. The solution: make brackets in the factory but package them at the distribution center, within the customer order cycle. This strategy improved asset utilization by cutting inventory levels by more than 50 percent.

Realizing that time really is money, many manufacturers are questioning the conventional wisdom that lead times in the supply chain are fixed. They are strengthening their ability to react to market signals by compressing lead times along the supply chain, speeding the conversion from raw materials to finished products tailored to customer requirements. This approach enhances their flexibility to make product configuration decisions much closer to the moment demand occurs.

Consider Apple's widely publicized PC shortages during peak sales periods. Errors in forecasting demand, coupled with supplier inability to deliver custom drives and chips in less than 18 weeks, left Apple unable to adjust fast enough to changes in projected customer demand. To overcome the problem, Apple has gone back to the drawing board, redesigning PCs to use more available, standard parts that have shorter lead times.

The key to just-in-time product differentiation is to locate the leverage point in the manufacturing process where the product is unalterably configured to meet a single requirement and to assess options, such a postponement, modularized design, or modification of manufacturing processes, that can increase flexibility. In addition, manufacturers must challenge cycle times: Can the leverage point be pushed closer to actual demand to maximize the manufacturer's flexibility in responding to emerging customer demand?

**Principle 5: Manage sources of supply strategically to reduce the total cost of owning materials and services.**

Determined to pay as low a price as possible for materials, manufacturers have not traditionally cultivated warm relationships with suppliers. In the words of one general manager: "The best approach to supply is to have as many players as possible fighting for their piece of the pie—that's when you get the best pricing."

Excellent supply chain management requires a more enlightened mindset—recognizing, as a more progressive manufacturer did: "Our supplier's costs are in effect our costs. If we force our supplier to provide 90 days of consigned material when 30 days are sufficient, the cost of that inventory will find its way back into the supplier's price to us since it increases his cost structure."

While manufacturers should place high demands on suppliers, they should also realize that partners must share the goal of reducing costs across the supply chain in order to lower prices in the marketplace and enhance margins. The logical extension of this thinking is gain-sharing arrangements to reward everyone who contributes to the greater profitability.
Some companies are not yet ready for such progressive thinking because they lack the fundamental prerequisite. That is, a sound knowledge of all their commodity costs, not only for direct materials but also for maintenance, repair, and operating supplies, plus the dollars spent on utilities, travel, temps, and virtually everything else. This fact-based knowledge is the essential foundation for determining the best way of acquiring every kind of material and service the company buys.

With their marketplace position and industry structure in mind, manufacturers can then consider how to approach suppliers—soliciting short-term competitive bids, entering into long-term contracts and strategic supplier relationships, outsourcing, or integrating vertically. Excellent supply chain management calls for creativity and flexibility.

For one manufacturer whose many divisions all were independently ordering the cardboard boxes they used, creativity meant consolidating purchases, using fewer and more efficient suppliers, and eliminating redundancy in such processes as quality inspection. For many small manufacturers, creativity means reducing transportation costs by hitching a ride to market on the negotiated freight rates of a large customer. For the chemical company in Exhibit 5, creativity meant tackling the volatility of base commodity prices by indexing them (rather than negotiating fixed prices), so supplier and manufacturer share both the pain and the gain of price fluctuations.

While the seven principles of supply chain management can achieve their full potential only if implemented together, this principle may warrant early attention because the savings it can realize from the start can fund additional initiatives. The proof of the pudding: Creating a data warehouse to store vast amounts of transactional and decision-support data for easy retrieval and application in annual negotiations consolidated across six divisions cut one manufacturer's operating costs enough in the first year to pay for a redesigned distribution network and a new order management system.

**Principle 6: Develop a supply chain-wide technology strategy that supports multiple levels of decision making and gives a clear view of the flow of products, services, and information.**

To sustain reengineered business processes (that at last abandon the functional orientation of the past), many progressive companies have been replacing inflexible, poorly integrated systems with enterprise-wide systems. One study puts 1995 revenues for enterprisewide software and service, provided by such companies as SAP and Oracle, at more than $3.5 billion and projects annual revenue growth of 15 to 20 percent from 1994 through 1999.
Too many of these companies will find themselves victims of the powerful new transactional systems they put in place. Unfortunately, many leading-edge information systems can capture reams of data but cannot easily translate it into actionable intelligence that can enhance real-world operations. As one logistics manager with a brand-new system said: "I've got three feet of reports with every detail imaginable, but it doesn't tell me how to run my business."

This manager needs to build an information technology system that integrates capabilities of three essential kinds. (See Exhibit 6.) For the short term, the system must be able to handle day-to-day transactions and electronic commerce across the supply chain and thus help align supply and demand by sharing information on orders and daily scheduling. From a mid-term perspective, the system must facilitate planning and decision making, supporting the demand and shipment planning and master production scheduling needed to allocate resources efficiently. To add long-term value, the system must enable strategic analysis by providing tools, such as an integrated network model, that synthesize data for use in high-level "what-if" scenario planning to help managers evaluate plants, distribution centers, suppliers, and third-party service alternatives.

Despite making huge investments in technology, few companies are acquiring this full complement of capabilities. Today's enterprisewide systems remain enterprise-bound, unable to share across the supply chain the information that channel partners must have to achieve mutual success.

Ironically, the information that most companies require most urgently to enhance supply chain management resides outside of their own systems, and few companies are adequately connected to obtain the necessary information. Electronic connectivity creates opportunities to change the supply chain fundamentally—from slashing transaction costs through electronic handling of orders, invoices, and payments to shrinking inventories through vendor-managed inventory programs.

A major beer manufacturer learned this lesson the hard way. Tracking performance from plant to warehouse, the manufacturer was pleased—a 98 percent fill rate to the retailer's warehouse. But looking all the way across the supply chain, the manufacturer saw a very different picture. Consumers in some key retail chains found this company's beer out of stock more than 20 percent of the time due to poor store-level replenishment and forecasting. The manufacturer now is scrambling to implement "real-time" information technology to gain store-specific performance data ... data that is essential to improving
customer service. Without this data, the manufacturer cannot make the inventory-deployment decisions that will boost asset utilization and increase revenue by reducing store-level stockouts.

Many companies that have embarked on large-scale supply chain reengineering attest to the importance of information technology in sustaining the benefits beyond the first annual cycle. Those that have failed to ensure the continuous flow of information have seen costs, assets, and cycle times return to their pre-reengineering levels, which undermines the business case for broad-based supply chain programs.

**Principle 7: Adopt channel-spanning performance measures to gauge collective success in reaching the end-user effectively and efficiently.**

To answer the question, "How are we doing?" most companies look inward and apply any number of functionally oriented measures. But excellent supply chain managers take a broader view, adopting measures that apply to every link in the supply chain and include both service and financial metrics.

First, they measure service in terms of the perfect order—the order that arrives when promised, complete, priced and billed correctly, and undamaged. The perfect order not only

Second, excellent supply chain managers determine their true profitability of service by identifying the actual costs and revenues of the activities required to serve an account, especially a key account. For many, this amounts to a revelation, since traditional cost measures rely on corporate accounting systems that allocate overhead evenly across accounts. Such measures do not differentiate, for example, an account that requires a multi-functional account team, small daily shipments, or special packaging. Traditional accounting tends to mask the real costs of the supply chain—focusing on cost type rather than the cost of activities and ignoring the degree of control anyone has (or lacks) over the cost drivers.

Deriving maximum benefit from activity-based costing requires sophisticated information technology, specifically a data warehouse. Because the general ledger organizes data according to a chart of accounts, it obscures the information needed for activity-based costing. By maintaining data in discrete units, the warehouse provides ready access to this information.

To facilitate channel-spanning performance measurement, many companies are developing common report cards, like that shown in Exhibit 7. These report cards help keep partners working toward the same goals by building deep understanding of what each company brings to the partnership and
showing how to leverage their complementary assets and skills to the alliance's greatest advantage. The willingness to ignore traditional company boundaries in pursuit of such synergies often marks the first step toward a "pay-for-performance" environment.

Consider the manufacturer of scientific products who kept receiving low marks from a customer on delivery—even though its own measures showed performance to be superior. The problem was that the two were not speaking the same language. The customer accepted only full truckloads; anything brought next week because it wouldn't fit onto the truck this week was deemed backordered. To the manufacturer, however, this term did not apply.

A common report card can also help partners locate and capitalize on synergies across the supply chain—as a manufacturer of health products did by working with a major customer to develop a joint return-on-invested-capital model and then used it to make such decisions as where to hold slow-moving inventory most cost effectively. Of course, such success is possible only between partners who begin with deep understanding of their own financial situation.

Translating Principles into Practice

Companies that have achieved excellence in supply chain management tend to approach implementation of the guiding principles with three precepts in mind.

- **Orchestrate improvement efforts**

  The complexity of the supply chain can make it difficult to envision the whole, from end to end. But successful supply chain managers realize the need to invest time and effort up front in developing this total perspective and using it to inform a blueprint for change that maps linkages among initiatives and a well-thought-out implementation sequence. This blueprint also must coordinate the change initiatives with ongoing day-to-day operations and must cross company boundaries.

  The blueprint requires rigorous assessment of the entire supply chain—from supplier relationships to internal operations to the marketplace, including customers, competitors, and the industry as a whole. Current practices must be ruthlessly weighed against best practices to determine the size of the gap to close. Thorough cost/benefit analysis is critical.
analysis lays the essential foundation for prioritizing and sequencing initiatives, establishing capital and people requirements, and getting a complete financial picture of the company's supply chain—before, during, and after implementation.

A critical step in the process is setting explicit outcome targets for revenue growth, asset utilization, and cost reduction. (See Exhibit 8.) While traditional goals for costs and assets, especially goals for working capital, remain essential to success, revenue growth targets may ultimately be even more important. Initiatives intended only to cut costs and improve asset utilization have limited success structuring sustainable win-win relationships among trading partners. Emphasizing revenue growth can significantly increase the odds that a supply chain strategy will create, rather than destroy, value.

- Remember that Rome wasn't built in a day

As this list of tasks may suggest, significant enhancement of supply chain management is a massive undertaking with profound financial impact on both the balance sheet and the income statement. Because this effort will not pay off overnight, management must carefully balance its long-term promise against more immediate business needs.

Advance planning is again key. Before designing specific initiatives, successful companies typically develop a plan that specifies funding, leadership, and expected financial results. This plan helps to forestall conflicts over priorities and keeps management focused and committed to realizing the benefits.

- Recognize the difficulty of change

Most corporate change programs do a much better job of designing new operating processes and technology tools than of fostering appropriate attitudes and behaviors in the people who are essential to making the change program work. People resist change, especially in companies with a history of "change-of-the-month" programs. People in any organization have trouble coping with the uncertainty of change, especially the real possibility that their skills will not fit the new environment.

Implementing the seven principles of supply chain management will mean significant change for most companies. The best prescription for ensuring success and minimizing resistance is extensive, visible participation and communication by senior executives. This means championing the cause and removing the managerial obstacles that typically present the greatest barriers to success, while linking change with overall business strategy.

Many progressive companies have realized that the traditionally fragmented responsibility for managing supply chain activities will no longer do. Some have even elevated supply chain management to a strategic position and established
a senior executive position such as vice president-supply chain (or the equivalent) reporting directly to the COO or CEO. This role ignores traditional product, functional, and geographic boundaries that can interfere with delivering to customers what they want, when and where they want it.

The executive recruited for this role must have some very special attributes—the breadth of vision needed to understand and manage activities from receipt of order through delivery; the flexibility required to experiment and make mid-course corrections, coupled with the patience demanded by an inherently long-term effort; the superior communication and leadership skills essential to winning and sustaining commitment to the effort at every level of the organization, including the translation of intellectual commitment into financial commitment.

Reaping the Rewards of Excellent Supply Chain Management

The companies mentioned in this article are just a few of the many that have enhanced both customer satisfaction and profitability by strengthening management of the supply chain. While these companies have pursued various initiatives, all have realized the need to integrate activities across the supply chain. Doing so has improved asset utilization, reduced cost, and created price advantages that help attract and retain customers (and thus enhance revenue).

At the same time, these companies have recognized the importance of understanding and meeting diverse customer needs. Such tailoring of products and services enhances the effectiveness of the supply chain and thus wins customer loyalty. This loyalty translates into profits—Xerox has found satisfied customers six times more likely to buy additional Xerox products over the next 18 months than dissatisfied customers.

By simultaneously enhancing customer satisfaction and profitability, the seven principles of supply chain management can turn these once warring objectives into a formula for sustainable competitive advantage.

Procter & Gamble: The Power of Partnership

Who says you can't please customers and achieve profitable growth from doing so? Certainly not Procter & Gamble. But even this consumer products giant recognizes the need for continuous change in order to enjoy continued success.

Since early in the century, P&G had based its strategy on delivering superior products to consumers. "Sell so that we will be filling the retail shelves as they are empty," said CEO Richard Deupree in 1911. By the late 1970s, this single-minded focus on consumers had earned P&G a reputation among wholesalers and retailers for being inflexible and dictatorial. Perceiving the growing power of these trade customers in the early 1980s, P&G revised its strategy to maintain a constant focus on reinventing the customer interface in pursuit of sustained competitive advantage.
The first step was a series of merchandising and logistics initiatives launched throughout the 1980s under the banner of "total system efficiency." Such efforts as implementing more flexible promotional policies and a damaged goods program signaled a new emphasis on trade customers. These efforts paid off. In 1990, P&G ranked 15th among the Fortune 500, up from 23rd in 1979.

In the early 1990s, P&G took the next big step-a sales reorganization creating multifunctional teams with key customers, notably Wal-Mart, to address issues in such key areas as category management and merchandising, logistics, information technology, and solid waste management. P&G simultaneously developed partnerships with suppliers to reduce cycle times and costs.

The results have been impressive. For example, the Just-in-Tide marketing initiative uses point-of-scale scan data to determine how and when to replenish product. Warehouse inventory turns have almost doubled; factory utilization has grown from 55 percent to more than 80 percent; and overall costs have dropped to 1990-1991 levels.

P&G more recently introduced the Streamlined Logistics program to improve customer service and supply chain efficiency. The first phase consolidated ordering, receipt, and invoicing of multiple brands, harmonized payment terms, and reduced bracket pricing categories. The implications for customers? As Steven David, vice president of sales, explained: "Now they'll be able to mix a load of soap or paper or food products on a full truck to get the best possible pricing. We're going to make available common-quantity pricing brackets across all our sectors. We're going to have multisector ordering for the first time."

To ensure customer satisfaction, P&G instituted a scorecard last year to enable both distributors and vendors to evaluate P&G's efficiency in such key areas as category management, assortment, efficient product introduction, promotion, and replenishment.

In the last six months, P&G has undertaken Streamline Logistics II to reduce unloading time in food-retailer warehouses. By combining such tools as activity-based costing and Electronic Data Interchange with drop-and-hook programs and elimination of pallet exchanges, P&G expects to remove non-value-added costs and improve consumer value...in the process saving $50 million, which P&G intends to pass on to customers.
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