Activity based costing journal article pdf

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shipment. If the item requires a new package, however, the manager estimates, either by experience or by making multiple observations, that it will take an additional 6.5 minutes to provide the new packaging. And if the item is shipped by air, he or she knows (or can quickly determine) that it will take about 2 minutes to place the package in an air-worthy container. This information allows the manager to estimate the time required for the packaging process: Packaging time = 0.5 + 6.5 [if special packaging, distribution method and other characteristics. This specific order and transaction data allows specific time demands to be order is quickly determined using a calculation like the one above. Thanks to this extension, abc's time-driven approach can capture the complexities of business much more than the traditional ABC system could, which might well have had to explain the different transaction times, treating each variant of the process as a distinct activity. Consider hunter corporation (not its real name), a large multinational distribute up to 300,000 SKUs of different products to 25,000 customers. Its old ABC model required employees in its internal sales department (sellers who handle phone and Internet orders rather than dealing with customers in person) to estimate each month the percentage of their time they spend on three activities: customer setup, order entry, and order dispatch. With the time-driven approach, Hunter ABC's team of analysts was able to group the three activities into a single departmental process, called sales order entry. The team learned that it took about 5 minutes for each item on the line, and another 10 minutes if the order had to be accelerated. If the customer were new, another 15 minutes would be required to configure the client on the company's computer system. Following the approach described above, the previous three-activity model was replaced by a single-time equation: Inside Sales Order Entry Process Volume = 5 + (3 × number of line items) + 15 [if new customer] + 10 [if accelerated order] This was simple to implement since Hunter's ERP system has already tracked the number of line items for each order and whether the customer was a race order and whether the customer was the customer was a race order and whether the customer was a race order order and whether the customer was a race order and whether the customer customer was a race order and whether the customer was a race order and New. The model multiplied the estimated time of the sales process by departmental cost per minute to reach the processing cost of each order. Hunter could now get a more accurate and nuanced estimate of his costs in the unit, while simultaneously reducing the complexity of the data collection and analysis process. Hunter has since launched ABC on all of its operations. The results were dramatic: Hunter reduced the number of items tracked from 1,200 activities to 200 department processes. Managers can add complexity to the model by simply adding new elements to time equations, which puts less pressure on Hunter's accounting system than incorporating new activities. Cost estimates are now based on actual order characteristics and direct observations of processing times, not subjective estimates of where and how people spend their time. The new model is easier to validate. Hunter can reconcile the total process time—that is, the absolute total time spent on all tracked activities in a period — to other measures of resources provided, such as head counting. If the total process time is less than the time estimates are too low or that people are not working for capacity. This validation is difficult with traditional ABC, which is based on estimated proportions of time spent and rarely incorporates idle or non-idle capacity time. Hunter's time-oriented ABC model requires only two people working two days a month to load, calculate, validate, and report the results, compared to the team of ten people and three weeks needed to maintain the previous model. Employees now spend time generating profits from the information instead of just updating and maintaining it. The type of deployment Hunter has performed is not difficult to achieve. Time-oriented ABC models can be easily applied and customized for other plants and companies within an industry because the processes they use are similar. Dave Deinzer, CEO of Denman & amp; Davis and president of the North American Steel Alliance, commented: For the most part, we're all pretty much the same equipment and procedures. You could probably apply the same time-driven ABC model to all of us. The chief information officer of another steel distributor, tW Metals, noted: We were able to launch our time-oriented ABC model for all 36 of our facilities in three months. ABC's time-driven ability to identify and report complex processes in a simple way also provides a powerful trading tool when it comes to dealing with clients. Wilson-Mohr, an industrial control company in Houston, worked as a subcontractor for engineering contractors (CEs) in building custom process control systems for refineries and chemical plants. Its time model revealed, for the first time, the high cost of engineering change orders issued by CES to replace parts or reconfigure the design. In the past, Wilson-Mohr charged an EC only for the planned material cost changes resulting from the change orders. Now, it can also clearly define the additional cost of sales, design, engineering, and manufacturing working time consumed when implementing change orders, which makes it easier to recover those costs by retrieving prices. (For a detailed example of how time-driven ABC helps companies manage customers, see the Strategic Change sidebar at Kemps LLC.) Kemps, based in Minneapolis, is a full-line dairy that products and distributors as large as SuperValu and Target and as small as convenience stores. Kemps markets its products under its own portfolio of together with products sold through private brand contracts and copacking. Like most dairy products, Kemps was experiencing consolidation in his customer total cost strategy. The new approach clearly required an accurate understanding of the cost per product and customer that Jim Green, Kemp's CEO, would use to instill a low-cost total culture across the organization. As a critical component of the cost-and-take model, Kemps implemented a time-driven ABC system so that it could track the costs of exchanges in the production and packaging of all its products and the costs of harvesting, loading and delivering products to its diverse customer call, seller call, fax, trucker entry, EDI or Internet), how it packed orders (full stacks of six boxes, individual cases or partial break-pack boxes for small orders), how it delivered orders (commercial carriers or its own fleet, including route miles), and time spent by the driver at each customer location. The extra time for exchanges to clean allergens (such as nuts, eggs, soy or wheat) used in certain ice cream products can now be accurately attributed to these products. The model also captured the extra packaging costs for special promotions and customer-specific labels and promotions. The company soon learned that it was losing money with one of its customers, a network of high-end specialty stores, because of the low volume and high variety of products ordered and the small just-in-time deliveries that the network requested. Kemp's vice president of sales called the customer, explained the situation, and offered three options; accept a price increase and a minimum order size; eliminate your privatelabel ice cream, replacing it with the standard Kemp brand product that was already being produced in efficient and high volumes; or find another ice cream supplier. When the customer asked why Kemps was making the change, the vice president replied that after 25 years, Kemps only now understood its true manufacturing costs and the impact of specialized production on its margins. The customer accepted a 13% price increase, agreed to the elimination of two low-volume products and agreed to accept full, non-partial truck cargo orders, thereby eliminating internal storage fees for Kemps. The changes produced immediate benefits of \$150,000 a year, turning this unprofitable customer into a profitable customer. Kemps also used its time-driven ABC model proactively to become the leading dairy supplier to a national customer. Kemps demonstrated that he could identify the specific costs of manufacturing, distribution and handling of orders associated with this customer's service based on the actual characteristics of the order: DSD (direct store delivery) or for distribution centers, gallon versus liter deliveries and volume and product mix. The time-driven ABC model facilitated an open and reliable relationship between supplier and customers were overordering and returning the product when the date code expired. To avoid the high cost of these discounts and returns, Kemps offered these retailers a 2% discount if they managed their own inventories without the return option. In this way, Kemps eliminated 95% of returns out of code, generating a net savings of \$120,000 per year. The Bottom Line Over the past seven years, we and our colleagues at Acorn Systems have successfully helped more than 100 customers introduce time-driven ABC into their processes. Most reported substantial improvements in profitability that they attribute to the information generated by the new approach. Take the case of Banta Foods, a Midwest food distributor with revenues of \$155 million from 17,000 SKUs and 5,000 customers. It operated with a net margin of about 1%. Historically, its profit drivers were increasing aggregate expenses. The ABC system, driven by Banta's weather, which was fully implemented within 16 weeks, revealed much more granularity in its expense structure, tying costs to products, orders, customers and territories. Managers learned that a \$1,000 order, previously considered the smallest size to break, could be quite cost-effective or a loss depending on the distance to the customer, the location of the product in the warehouse, order size, delivery frequency, type of service, and customer credit rating—all of which were incorporated into algorithms into their new time-driven ABC system. Based on data from its ABC model, Banta instituted a minimum non-profit order size, reduced the inventory of unprofitable products, promoted sales of high-profit products, negotiated with customers both to reduce demand for high-cost services and to re-price them, and offered incentives to its sellers to increase its customer discounts. The general sales manager used the information to transform their sales representatives from order buyers to consultants, helping them create more profitable customers and territories for Banta. He reports: Sellers can now increase their gross profits by not simply adding points to their margin, but knowing which items to sell. By accurately designing the costs and profits of the proposed businesses, Banta was able to take on new businesses that increased revenues by 35% and generated immediate improvements in profits of 43%, with another 25% still to come from future opportunities. the profitable decisions exhibition at Banta Foods.) His performance led to the distinction of being appointed of the Year by the industry magazine, Institutional Distributor. Profitable decisions at Banta Foods Over the past 15 years, activity-based costing has allowed managers to see that not all revenue is a good revenue and maintaining traditional ABC systems prevented them from being adopted on any significant scale. ABC has overcome these difficulties by offering a transparent and scalable methodology that is easy to implement and update. It relies on existing databases to incorporate specific capabilities for specific orders, processes, vendors, and specific customers. Activity-based costing is no longer a complex and expensive implementation of financial systems; time-driven ABC innovation provides managers with meaningful information on costs and profitability quickly and inexpensively. A version of this article appeared in the November 2004 issue of the Harvard Business Review. Review.

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