Supply Chain Profitability and Cost Management

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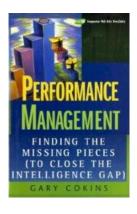
Global Supply Chain Excellence Summit February 3, 2024

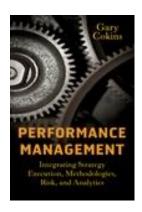
About Gary Cokins

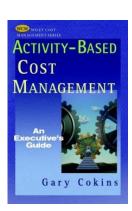
Founder, Analytics-Based Performance Management LLC

B.S. Industrial Engineering & Operations Research; Cornell University, 1971

M.B.A. Finance & Accounting; Northwestern University, Kellogg Graduate School of Management, 1974











Previous Associations:

- FMC Corporation
- Consultant with: Deloitte,
 KPMG Peat Marwick,
 Electronic Data Systems [EDS, now HP]
- SAS (16 years)

Who will benefit from this presentation?

Managers who have previously struggled at promoting enterprise performance management (EPM), supply chain management (SCM), and integrating business analytics (BA) into their decision support systems.

Managers who intend to "champion" any or all EPM, SCM, and BA improvement techniques and need a compelling call to action.

AGENDA

- What is Enterprise Performance Management?
- Why trading partner collaboration is needed.
- Managerial accounting for supply chain management.
- Overcoming resistance to change. Getting buy-in.

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Confusion and Lack of Consensus about EPM

Is it human resources PM?

Is it scorecards, dashboards, KPIs and measures?

Is it alignment, such as strategic or resource allocation?

Is it process, productivity and quality improvement?

Or ... is it all of the above? And even more?

The good news is this

What is Analytics-based Performance Management?

Analytics-based Enterprise Performance Management is the integration of multiple methodologies with each embedded with business analytics, such as segmentation analysis, and especially predictive analytics ... to achieve the strategy and to make better decisions.

What has caused interest in EPM?

- 1 Executives frustrations with strategy failure.
- 2 Increased accountability.
- 3 More rapid decision making.
- 4 Mistrust of the managerial accounting system for transparency.
- 5 Poor customer value management
- 6 Contentious budgeting poor resource capacity planning.
- 7 Dysfunctional supply chain management.
- 8 Unfulfilled ROI promises from IT systems lack of integration.

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Analytics-Based
Performance Management
LLC

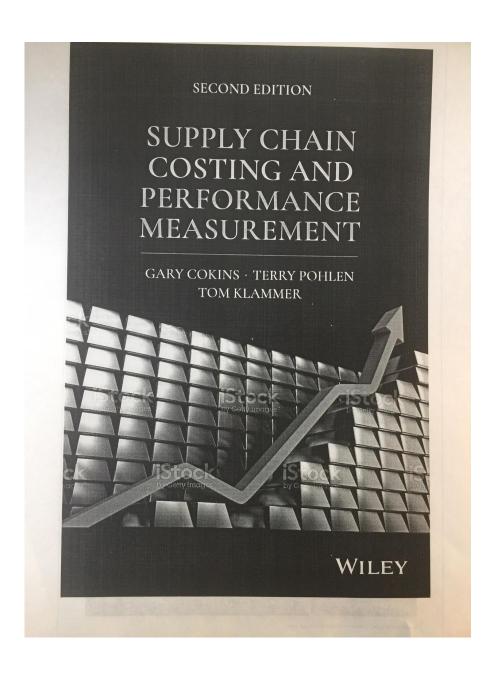
Thomas P. Klammer

Professor of Accounting (retired)
University of North Texas

Terrance L. Pohlen

Associate Professor of Logistics University of North Texas

Supply Chain Costing and Performance Management, 2nd Edition | Wiley



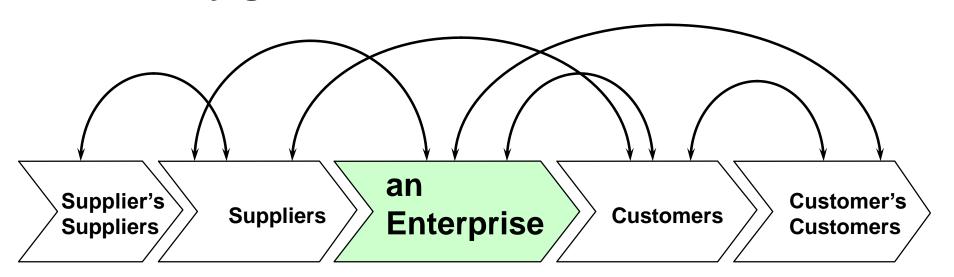
Post ERP and SCM Challenges

In the 1990s and 2000s businesses embraced ERP and supply chain management to automate relationships and increase efficiencies. These either eliminated or shifted costs.

But they didn't address three key challenges.

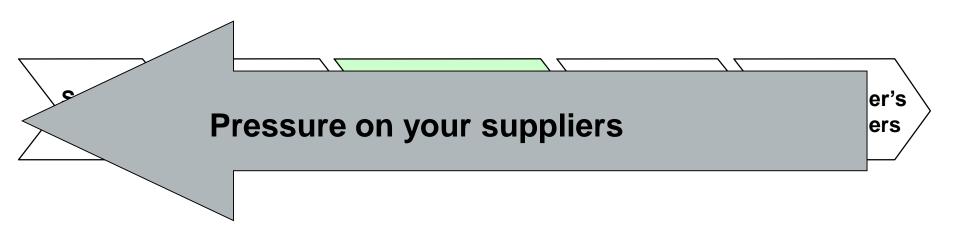
(1) Adversarial Relationships

While each trading partner knows there are mutual profits to be gained, decades of armslength and adversarial behavior has precluded efficiency gains.



(2) A Procurement Focus

Immense pressure is being placed on suppliers for price reductions or containment without regard to effects on service levels.



(3) A Sub-optimal Internal Focus



It is no longer sufficient to be the most agile, lean, and efficient firm. You are dependent on all of your trading partners – upstream and downstream – to also be agile, lean, and efficient.

This eventually creates a need for *collaboration* but first you need the facts to know what your <u>own</u> costs and profit margins are and who or what is causing them.

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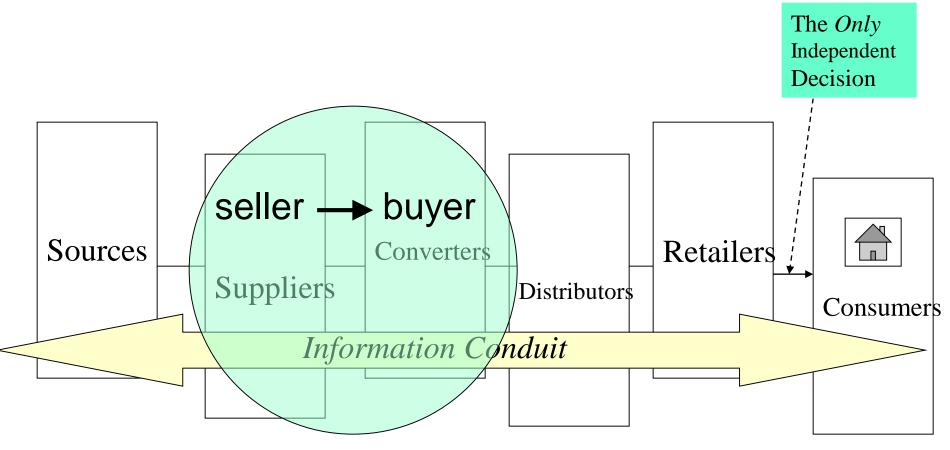
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A Case for Supply Chain Cost Accounting

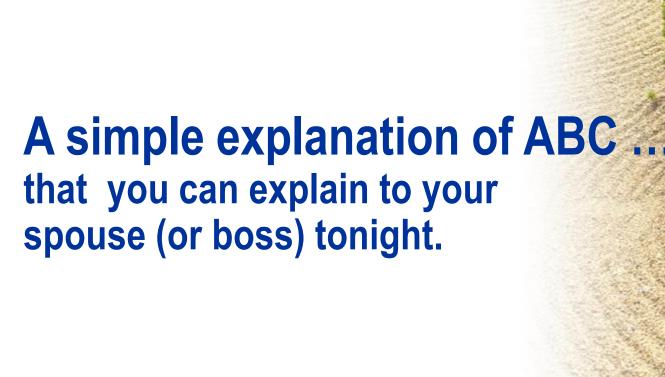
"Many companies may find it near impossible to track supply chain costs, but it is a requirement for properly tracking, reporting, and measuring item performance. And it is a true prerequisite for advanced supply chain and retail optimization."

> Robert Bruce VCC Associates, Inc. Wal-Mart (retired), VP Supply Chain Strategies

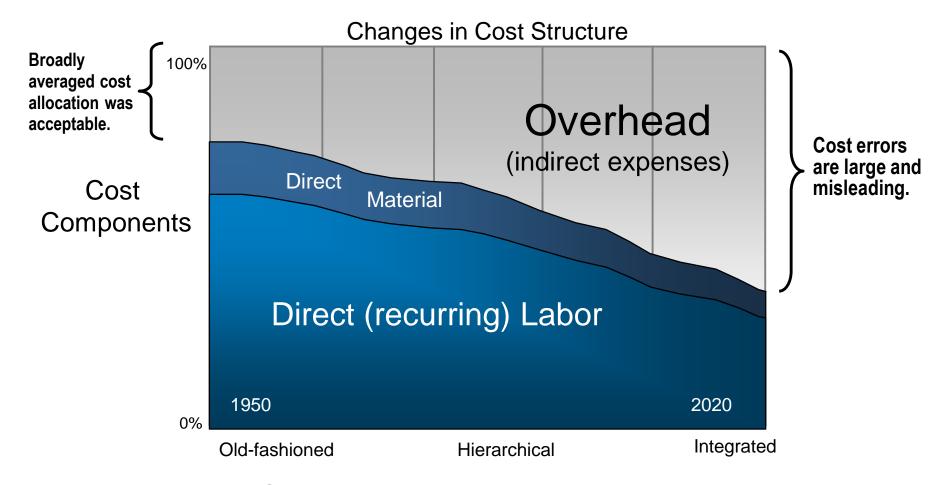
Profit Opportunities Across the Supply Chain



The starting point to measure profits "across" the supply chain, and identify joint mutually beneficial opportunities, begins at any <u>seller/buyer interface</u> along the chain.



The Need for Tracing, not Allocating, Costs



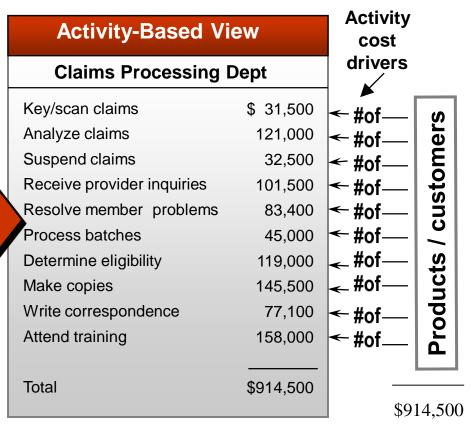
Stages in the Evolution of Businesses

Each Activity Has Its Own Cost Driver

From: General Ledger

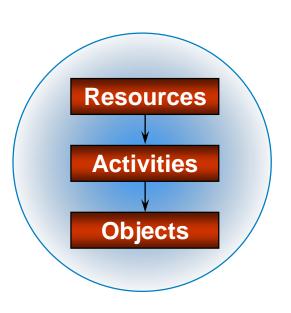
Chart-of-Accounts View						
Claims Processing Department						
		Favorable/ (unfavorable)				
Salaries	\$621,400	\$600,000	\$(21,400)			
Equipment	161,200	150,000	(11,200)			
Travel expens	e 58,000	60,000	2,000			
Supplies	43,900	40,000	(3,900)			
Use and occupancy	30,000	30,000	_			
Total	\$914,500	\$880,000	\$(34,500)			

To: ABC Data Base

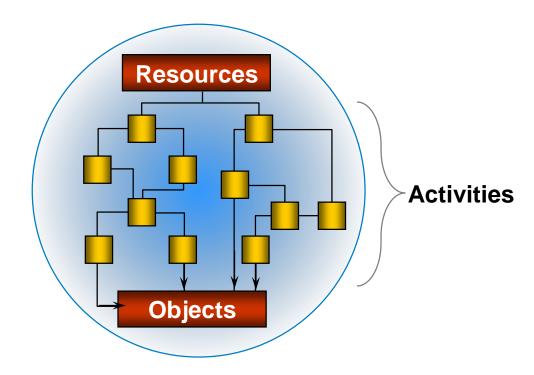


When managers get this kind of report, they are either happy or sad, but they are rarely any smarter!

Multiple-Stage Cost Flowing

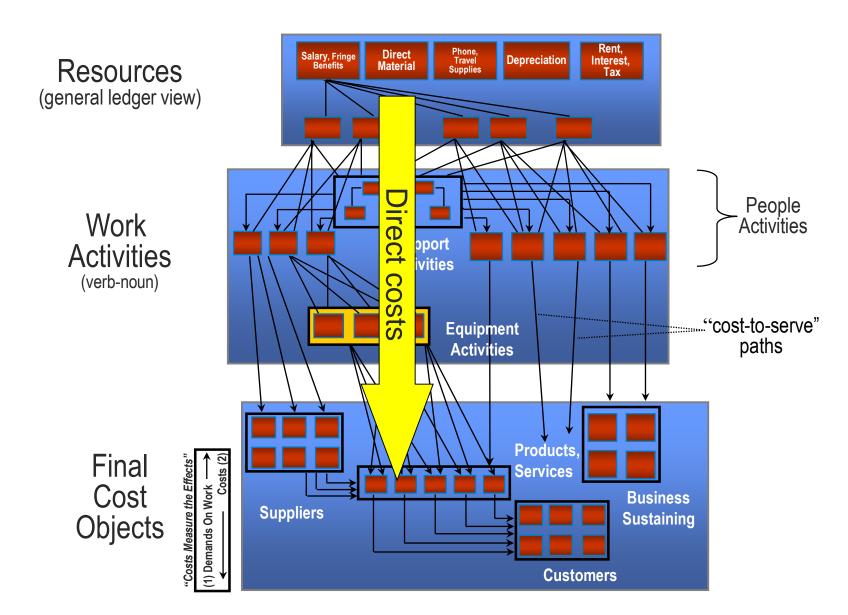


Simple ABM



Expanded ABM

ABC/M Cost Assignment Network



Further detail readings

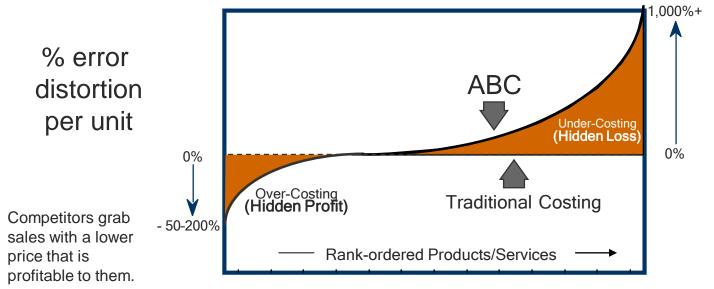
To read in more detail about the multi-stage ABC cost assignment network, below is a link to content that I have authored.

It is a titled "A Statement on Management Accounting – Implementing ABC".

I wrote it for the Institute of Management Accounting (IMA) at www.imanet.org

https://www.imanet.org//-/media/d5beff30c5864c7383e6ebb61556bab3.ashx?as=1&mh=200&mw=200&hash =E34259B80CE1AC68ED6AB8363D05635AE19BAB91

Standard Costing Over- and Under-Costs Products

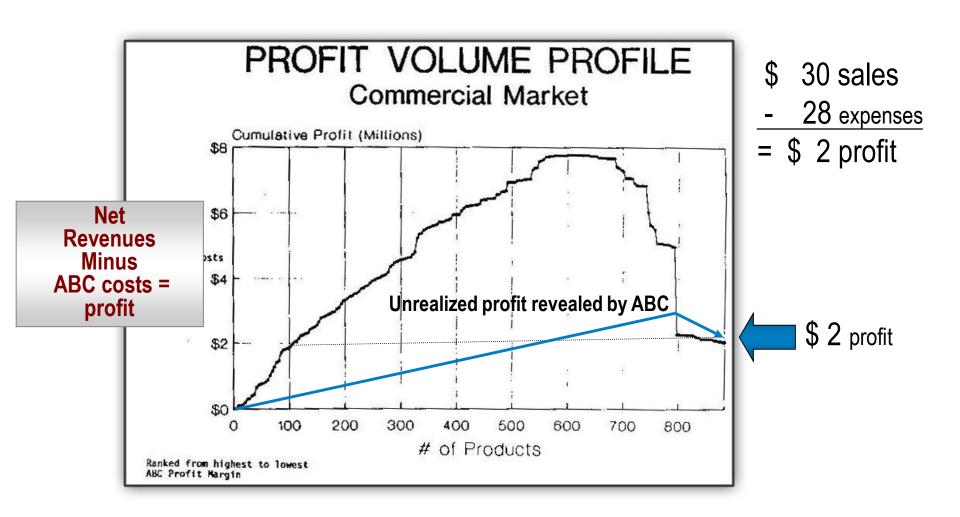


The sales force wins volume with prices that in reality are unprofitable.

- Simple Products and Services
- made through generic processes
- · High Volume of Production

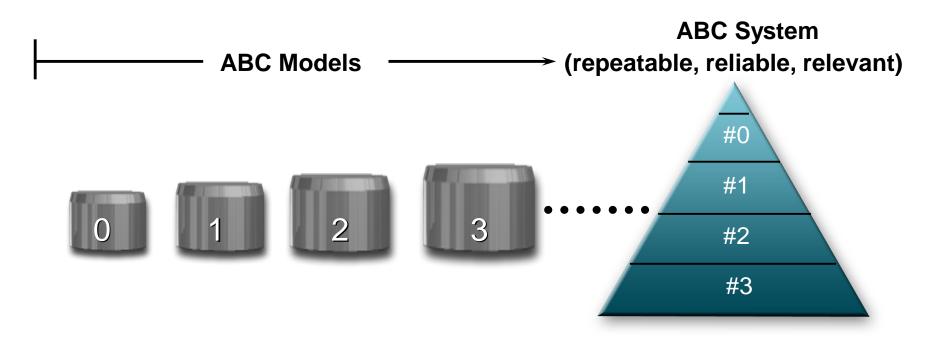
- Complex Products and Services
- · made through specific processes
- · Low Volume of Production

More important than a better costing method are its results.



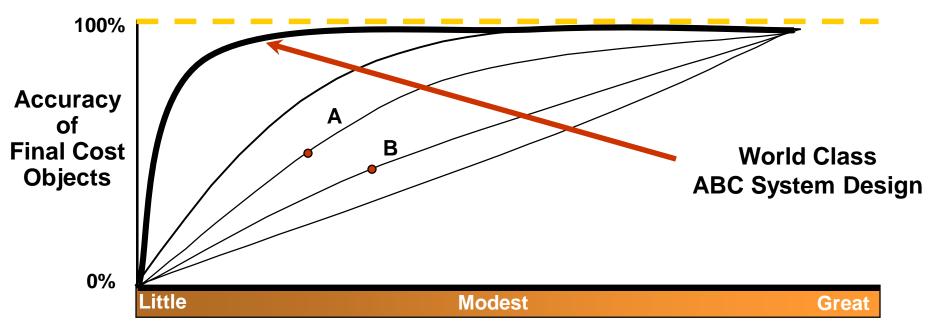
Rapid Prototyping with Iterative Remodeling (crawl, walk, run, fly)

Each iteration enhances the use of a ABC system.



Make your mistakes early and often, not later when the system is too hard to change.

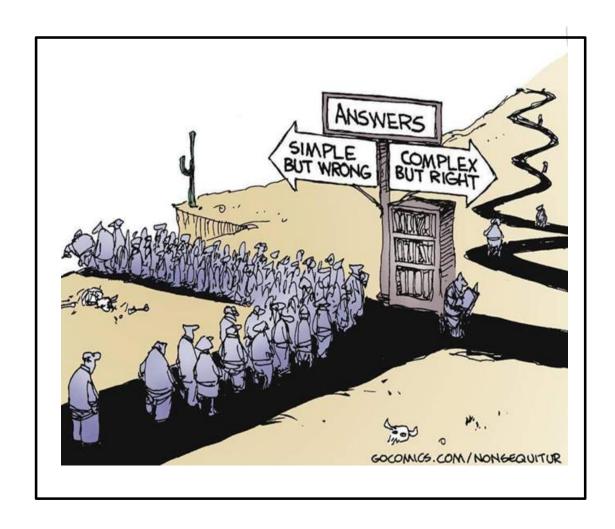
Balancing Levels of Accuracy with Effort



Level of Data Collection Effort

Is the higher climb worth the better view?

Most CFOs take the left-side path!



Value of Company = f(Value from Customers)

The only value a company will ever create is the value that comes from its customers – the current ones and the new ones acquired in the future.

To remain competitive, one must <u>determine how to keep</u> <u>customers longer</u>, grow them into bigger customers, make <u>them more profitable</u>, serve them more efficiently, and <u>acquire relatively more profitable customers</u>.

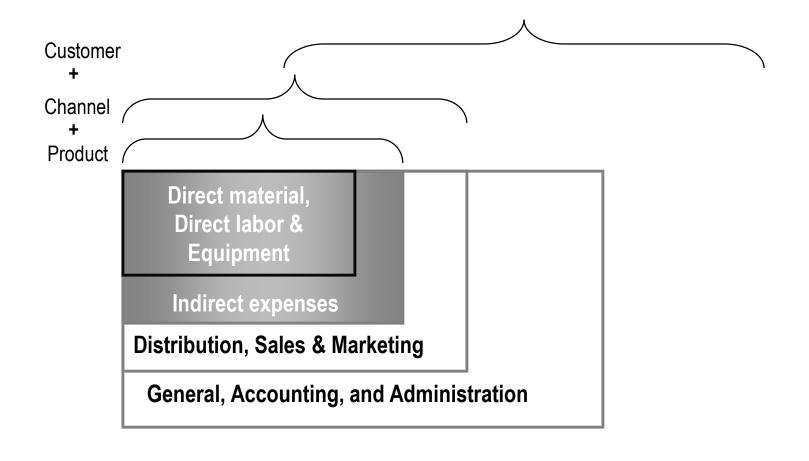
So What about the Other Below-the-line "Calculated" Costs?

Products and standard service-lines are not the only thing for which accountants should compute costs.

What about costs that have nothing to do with making products and delivering standard service-lines?

The problem with traditional accounting's product gross profit margin reporting is you don't see the bottom half of the picture.

Costs from Sales & Marketing are not Products



High and Low Maintenance Customers

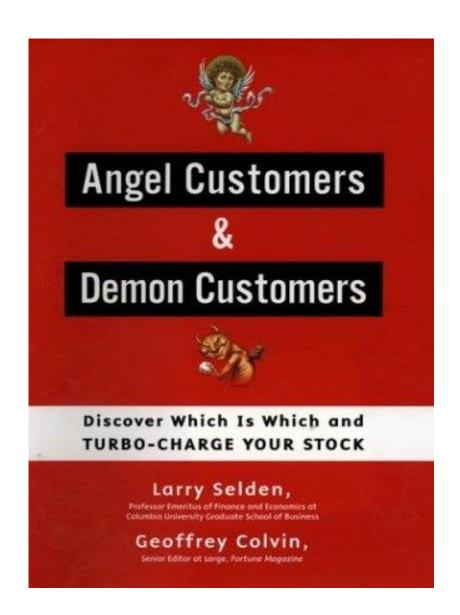
Every company has a high and low maintenance customers.

Examples of high maintenance customers: always changing delivery schedules, demanding special not standard products, returning good, calling help desk.

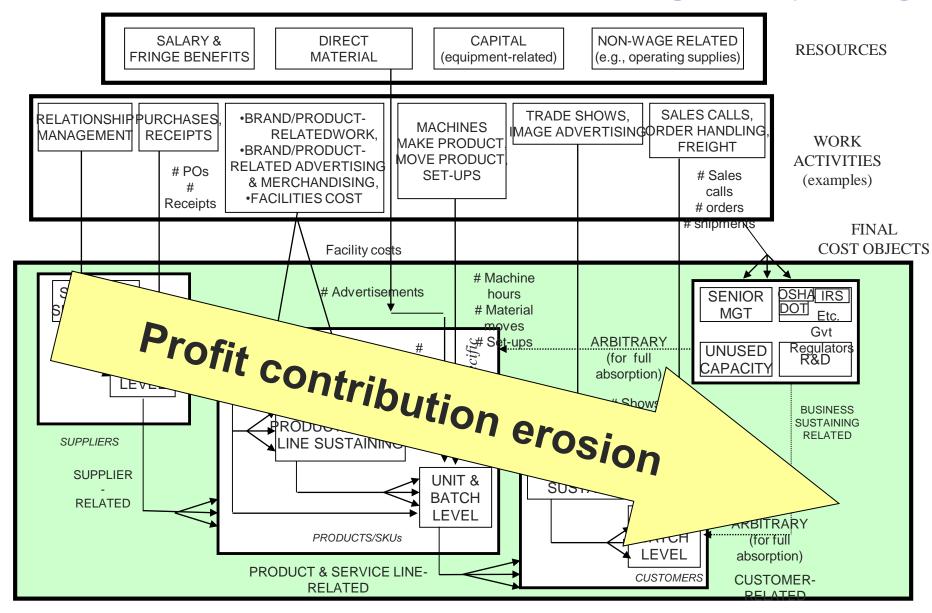
Low maintenance customers do none of these.

The message:

Sales volume is not equivalent to the profit from a customer.



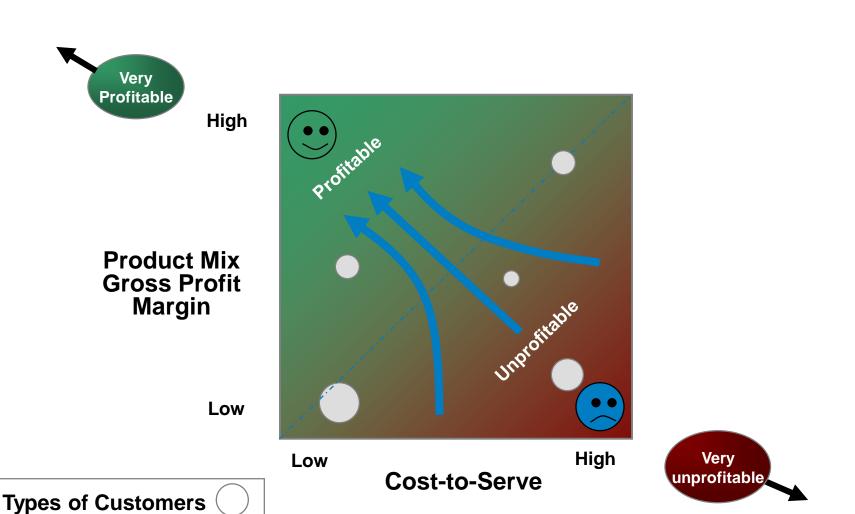
ABC/M Profit Contribution Margin Layering



A Customer Profit & Loss Statement

Sales	\$\$\$	Margin \$	Margin	
		(Sales - ΣCosts)	% of Sales	
Product-Related			_	
Supplier-Related costs (TCO)	\$ xxx	\$ xxx	98%	
Direct Material	XXX	XXX	50%)
Brand Sustaining	XXX	xxx	48%	Product-
Product Sustaining	XXX	XXX	40% ▮	elated
Unit, Batch*	XXX	XXX	30%	osts
Distribution-Related			•	
Outbound Freight Type*	XXX	XXX	28%	
Order Type*	XXX	xxx	26% C	Channel 8
Channel Type*	XXX	XXX	= . / *	Customer
				elated
Customer-Related				osts
Customer-Sustaining	XXX	XXX	22%	
Unit-Batch*	XXX	XXX	10%	
Business Sustaining	XXX	XXX	<u>8%</u>	
Operating Profit		XXX	<u>8%</u>	

Migrating Customers to Higher Profitability



A Shift in the CFO's Emphasis

The CFO must now help Sales and Marketing ... to better target customers.

The spending budget for sales and marketing is critical ... but it should be treated as a preciously scarce resource to be aimed at generating the highest long-term profits.

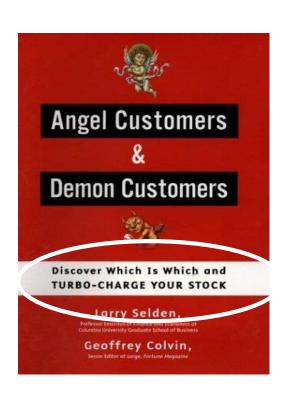
This means answering questions like:

Which type of customer is attractive to newly acquire, retain, grow, or win back? And which types are not?

How much should we *optimally* spend attracting, retaining, growing, or recovering each customer micro-segment?

Optimizing Customer Value ---

"Smart" Sales Growth



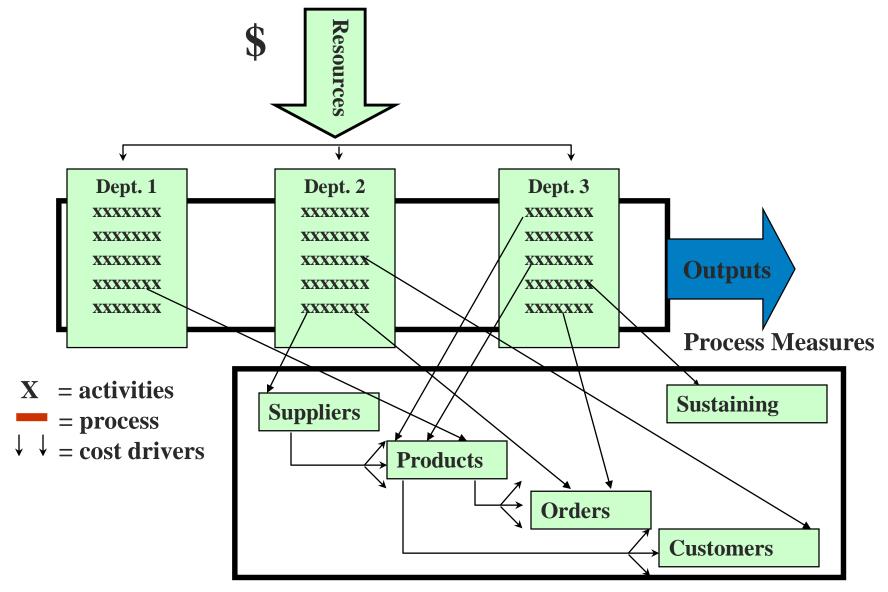
You can destroy shareholder wealth creation by ...

... over-spending uneccessarily on loyal customers for what is needed to retain them.

... under-spending on marginally loyal customers and risk their defection to a competitor.

Therefore, what is the <u>optimum</u> spending level for differentiated services to different micro-segments of customers?

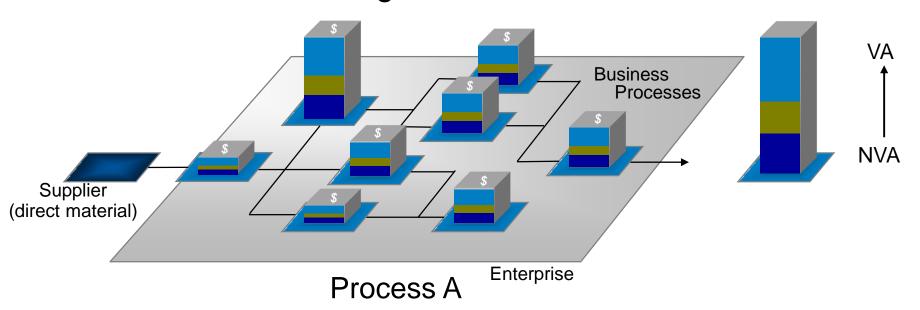
The Vertical view of Assigning Costs



The Horizontal view of Sequencing Costs (Lean Accounting) Resources Dept. 1 Dept. 2 Dept. 3 XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXX Y XXXXXXX **Outputs** XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX **Process Measures** = activities **Sustaining Suppliers** = process = cost drivers **Products Orders Customers**

Processes: Six Sigma, Lean Management, and Value Stream Mapping

Processes include activities that have high to low *value-adding* content.



ABC also provides unit costs of outputs for cost visibility and benchmarking.

Key:

Cost

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The Buy-in to SCM leveraging EPM

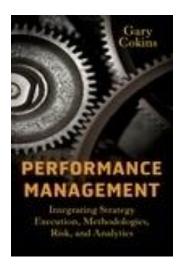
Why has the adoption rate for EPM's methodologies with SCM been so slow?

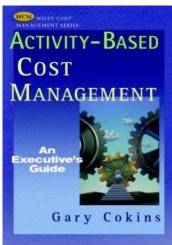
Why is the adoption rate so slow? What are the barrier categories?

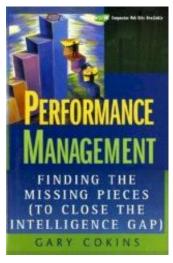
- (1) <u>Technical</u> barriers include IT related issues.
- (2) <u>Perception</u> barriers are excess complexity and affordability.
- (3) Organizational behavior barriers involve resistance to change, culture, and leadership.

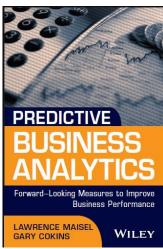
From Theory to Practice

Your success depends on how well and how fast the right information and intelligence gets to the right people.









Thank You

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