

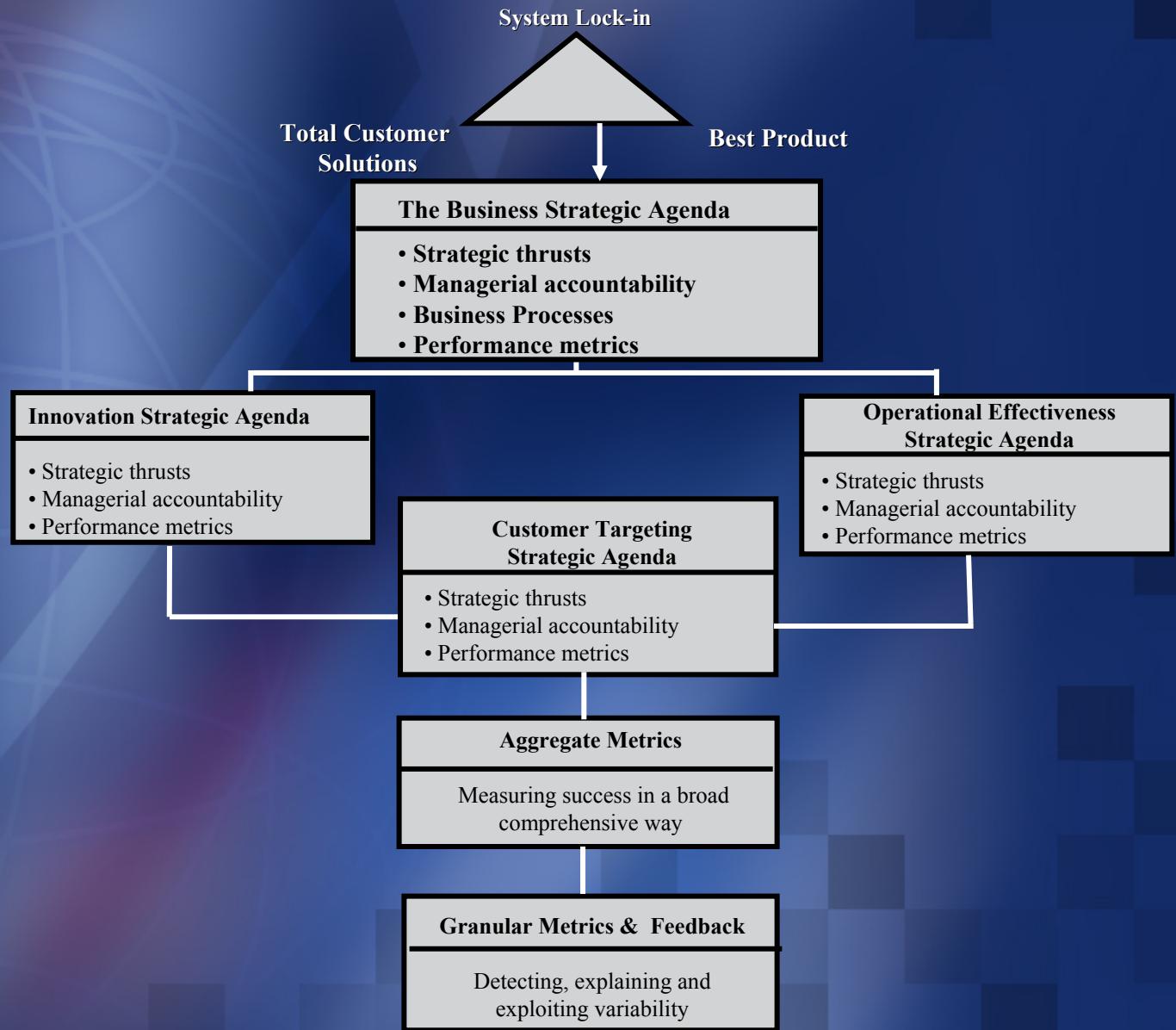
Metrics and Financial Evaluation

Assignment

- 1) Balanced scorecard for the firm as a whole and each customer tier individually.
- 2) Financial evaluation of the merits of the strategy
 - An MPV as a measure of the economic value created. The role of the intelligent budget.
- 3) Reflections on granular metrics - Identification of the critical indicators that should be subject to a variability analysis.

The Delta Model - The Complete Framework

1. The Triangle- choosing the strategic position
2. The business Strategic Agenda-translating strategic positioning into execution
3. The Adaptive Processes-translating execution into concrete tasks
4. Aggregate Metric- the overall scorecard of business performance
5. Granular Metrics- de-averaging, explaining and exploiting variability



Performance Metrics for the Business Drivers of the Delta Model

	Best Product	Total Customer Solutions	System Lock-In
Operational Effectiveness (Cost Drivers)	<ul style="list-style-type: none"> • Cost performance <ul style="list-style-type: none"> - Unit cost - Lifecycle cost - Variable and total cost • Cost drivers • Quality performance • Degree of differentiation 	<ul style="list-style-type: none"> • Customer value chain <ul style="list-style-type: none"> - Total cost - Total revenue and profit ▪ Customer economic drivers • Impact on customer profit due to our service vs. competitors 	<ul style="list-style-type: none"> • Description of system infrastructure ▪ Total system costs/revenues ▪ Complementor's investments and profits • Complementor costs of adhering to your standard • System performance drivers
Customer Targeting (Profit Drivers)	<ul style="list-style-type: none"> • Product market share • Channel cost • Product profit <ul style="list-style-type: none"> - By product type - By offer - By channel • Profit drivers 	<ul style="list-style-type: none"> • Customer share ▪ Customer retention ▪ Our profitability by customer <ul style="list-style-type: none"> - Individual and by segment • Customer bonding <ul style="list-style-type: none"> - Switching costs 	<ul style="list-style-type: none"> • System market share ▪ Our share of complementors <ul style="list-style-type: none"> - % of investments tied to our proprietary standard • Our profit by complementor
Innovation (Renewal Drivers)	<ul style="list-style-type: none"> • Rate of product introduction • Time to market • Percent of sales from new products • Cost of product development • R&D as % of sales 	<ul style="list-style-type: none"> • Relative involvement in customer value chain ▪ Percentage of product development <ul style="list-style-type: none"> - From joint development - Customized • Degree of product scope <ul style="list-style-type: none"> - Current vs. potential bundling 	<ul style="list-style-type: none"> • Switching costs for complementors and for customers ▪ Rate of product development • Cost of competitors to imitate standard

The Balanced Scorecard

Balanced Score Card Dimensions

Balanced Scorecard Framework	Financial Perspective (Shareholder Look)	Business Process (Operational Effectiveness)	Organizational Learning (Technology)	Customer Perspective (Customer Targeting)
Company	<ul style="list-style-type: none"> Volume, revenue, earning, gross margin by tech. segment and/or market segment (actual vs. plan). Revenue and earnings by geographical segment (China, US & Japan). Revenue and earnings by business domain (Capital, Industrial & Government). 	<ul style="list-style-type: none"> Capacity utilization by engineer idle time. Saving derived from six sigma productivity. Six sigma GB/BB/MBB penetration. Budget vs. plan (facility in China, US & Japan0). Number of employees passing language tests. 	<ul style="list-style-type: none"> Percent of sales from new tech. domain by market segment. Training as percent of sales. ERP/CRM/ Collaboration Tool implementation timeline. 	<ul style="list-style-type: none"> Customer market share by tier. Profitability by customer tier. Customer satisfaction by tier.

Balanced Score Card Dimensions (cont'd.)

Balanced Scorecard Framework	Financial Perspective (Shareholder Look)	Business Process (Operational Effectiveness)	Organizational Learning (Technology)	Customer Perspective (Customer Targeting)
Tier 1 Exclusive Partner Japanese companies requiring outsourcing of mainframe applications	<ul style="list-style-type: none"> • Volume, revenue, earning, gross margin by individual clients (actual vs. plan). • Year over year sales and earnings growth by individual clients (actual vs. plan). • Return on Business Relationship investment. • ROI on mainframe total investment. 	<ul style="list-style-type: none"> • Cost to serve clients. • Savings derived from six sigma joint projects with clients. • Budget vs. plan (facility in Japan). 	<ul style="list-style-type: none"> • Percentage revenue from projects using in-house IBM Mainframe. • Percentage revenue from projects using client IBM Mainframe. • Number of clients on DMK ERP. 	<ul style="list-style-type: none"> • Value-added from six sigma. • ACFC (GE “At Customer for Customer”) initiatives. • Process reengineering. • Joint revenue/earnings from complementor relationship (customer ROI). • Customer satisfaction with: <ul style="list-style-type: none"> - Project deliverables. - Relationship

Balanced Score Card Dimensions (cont'd.)

Balanced Scorecard Framework	Financial Perspective (Shareholder Look)	Business Process (Operational Effectiveness)	Organizational Learning (Technology)	Customer Perspective (Customer Targeting)
Tier 2 Strategic/Integrated Partner Long term, symbiotic partnership with client resulting in high value to both parties	<ul style="list-style-type: none"> Volume, revenue, earning, gross margin by individual clients (actual vs. plan). Year over year sales and earnings growth by individual clients (actual vs. plan). Return on Business Relationship investment. 	<ul style="list-style-type: none"> Cost to serve clients. Savings derived from six sigma joint projects with clients. Budget vs. plan (facility in Japan, US, China). Percentage revenue from sales derived from DWH. 	<ul style="list-style-type: none"> Number of clients on DMK ERP. ROI on EAI initiatives. ROI on collaboration tools per selected client. ROI and percentage revenue on center of excellence establishment. 	<ul style="list-style-type: none"> Value-added from six sigma. ACFC (GE "At Customer for Customer") initiatives. Process reengineering. Joint revenue/earnings from complementor relationship (customer ROI). Customer satisfaction with: <ul style="list-style-type: none"> - Project deliverables. - Relationship

Balanced Score Card Dimensions (cont'd.)

Balanced Scorecard Framework	Financial Perspective (Shareholder Look)	Business Process (Operational Effectiveness)	Organizational Learning (Technology)	Customer Perspective (Customer Targeting)
<p>Tier 3 Project Solutions Seeker Full project ownership and solution delivery responsibility without established (but with opportunity for establishing) a long term client relationship.</p>	<ul style="list-style-type: none"> Volume, revenue, earning, gross margin by individual clients (actual vs. plan). Return on marketing investment. Percentage revenue from clients moved into Tier 3. 	<ul style="list-style-type: none"> Marketing cost per client. ROI on collaboration initiatives. Percentage revenue, volume, earnings by channel: <ul style="list-style-type: none"> - referral by clients - referral by JBCC - direct: pull & push - cross selling Cost of training per project. 	<ul style="list-style-type: none"> ROI on collaboration tools per selected client. ROI on software license per project. 	<ul style="list-style-type: none"> Cost to serve clients per channel. Customer satisfaction with: <ul style="list-style-type: none"> - Project deliverables. - Relationship

Balanced Score Card Dimensions (cont'd.)

Balanced Scorecard Framework	Financial Perspective (Shareholder Look)	Business Process (Operational Effectiveness)	Organizational Learning (Technology)	Customer Perspective (Customer Targeting)
Tier 4 Body Shopper Transactional relationship to provide supplemental staff without much end client relationship	<ul style="list-style-type: none"> Volume, revenue, earning, gross margin by individual clients (actual vs. plan). ROI per head. Percentage revenue from new clients. 	<ul style="list-style-type: none"> Time to complete the transaction from start to finish per project. ROI on collaboration initiatives. Percentage revenue, volume, earnings by channel: <ul style="list-style-type: none"> - referral by clients - referral by JBCC - direct: pull & push - cross selling Cost of training per project. 	<ul style="list-style-type: none"> Cost of collaboration tool to facilitate knowledge transfer. 	<ul style="list-style-type: none"> Cost to serve clients per channel. Customer satisfaction with: <ul style="list-style-type: none"> - Project deliverables. - Relationship - Cost

The Budget

Strategic Funds Programming and Operational Budgets

— An Illustration

	History					Current Year		Projections			
	1988	1989	1990	1991	1992	Actual	Budget	1994	1995	1996	1997
Total Market	4,032	4,994	5,822	6,722	7,820	0	9,266	11,120	13,123	16,012	19,312
Market Share (%)	52	51	52	49.0	49	0	49	50	50	51	52
Company Sales	2,083	2,568	3,002	3,316	3,799	0	4,502	5,522	6,577	8,123	9,966
— Operating Cost of Goods Sold	1,789	2,138	2,499	2,771	3,165	0	3,760	4,612	5,492	6,789	8,336
Gross Operating Margin	294	430	503	545	634	0	742	910	1,085	1,334	1,630
— Operating SG&A	62	103	110	121	138	0	162	199	241	295	366
Operating Margin	232	327	393	424	496	0	580	711	844	1,039	1,264
— Strategic Expenses	130	165	204	213	251	0	321	396	497	626	789
SBU Margin	102	162	189	211	245	0	259	315	347	413	475
— Taxes	5	18	23	27	32	0	35	43	56	70	93
SBU Net Income	97	144	166	184	213	0	224	272	291	343	382
+ Depreciation	18	21	26	32	38	0	46	56	67	82	100
— Capital Investments	32	57	87	128	115	0	150	195	169	202	183
— Increases in Working Capital	0	0	0	0	0	0	0	0	0	0	0
Contribution/Request of Funds to the Corporation	83	108	105	88	136	0	120	133	189	223	299

Splitting the Profit and Loss Statement of a Division in Terms of Operational and Strategic Expenses

	Conventional Expenses	Operational Expenses	Strategic Expenses
Sales Revenue	100	100	
Less:			
Labor	50	45	5
Variable costs	10	7	3
Fixed costs	15	5	10
Gross Margin	25	33	
Less:			
Marketing expenses	2	1.5	0.5
Admin. expenses	8	6	2
Training expenses	3	2	1
Division Margin	12		
Operating margin		23.5	
Total strategic expenses			11.5

Strategic Funds Programming and Operational Budgets

Historical and projected P/L

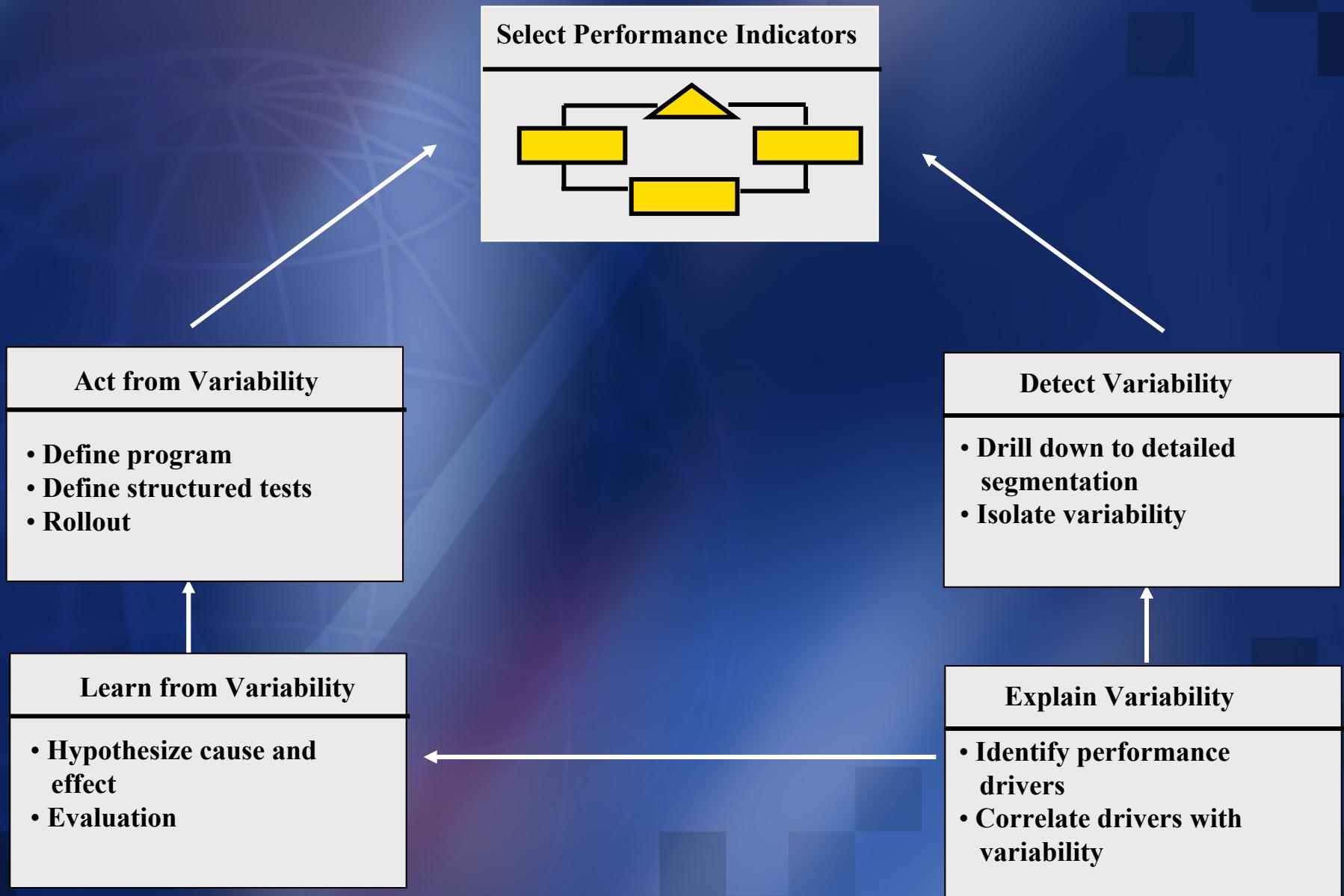
	History			Current	Projections		
	2001	2002	2003	2004	2005	2006	2007
Sales Revenue	13.00	16.00	18.00	20.00	23.00	26.00	30.00
Operating COGS	8.61	10.15	10.50	10.33	11.20	11.90	12.60
Gross Operating Margin	4.39	5.85	7.50	9.68	11.80	14.10	17.40
Operating SG&A	3.69	4.35	4.50	4.43	4.80	5.10	5.40
Operating Margin	0.70	1.50	3.00	5.25	7.00	9.00	12.00
Strategic Expenses	0.20	0.25	0.50	0.88	2.00	3.38	5.50
EBITA	0.50	1.25	2.50	4.38	5.00	5.64	6.50
Taxes	0.10	0.25	0.50	0.88	1.00	1.13	1.30
Net Income	0.40	1.00	2.00	3.50	4.00	4.50	5.20

Growth Ratio

	History			Current	Projections		
	2001	2002	2003	2004	2005	2006	2007
Sales Revenue		+0.23	+0.13	+0.11	+0.15	+0.13	+0.15
Operating COGS		+0.18	+0.03	-0.02	+0.08	+0.06	+0.06
Gross Operating Margin		+0.33	+0.28	+0.29	+0.22	+0.19	+0.23
Operating SG&A		+0.18	+0.03	-0.02	+0.08	+0.06	+0.06
Operating Margin		+1.14	+1.00	+0.75	+0.33	+0.29	+0.33
Strategic Expenses		+0.25	+1.00	+0.75	+1.29	+0.69	+0.63
EBITA		+1.50	+1.00	+0.75	+0.14	+0.13	+0.16
Taxes		+1.50	+1.00	+0.75	+0.14	+0.13	+0.16
Net Income		+1.50	+1.00	+0.75	+0.14	+0.13	+0.16

Granular Metrics

The Delta Model and Granular Metrics



Drivers of variability for selected performance indicators

Performance indicators	Drivers of variability
Product cost and quality	<ul style="list-style-type: none">● Scale● Density-e.g. concentration of service● Location● Labor productivity- practices and training● Equipment productivity- design● Process design● And so on
Customer profit	<ul style="list-style-type: none">● Customer size● Customer revenue● Tenure● Acquisition cost● Channel mix● Customer care support● Customer investments in relationships● And so on
Complementor contribution	<ul style="list-style-type: none">● Size of relevant complementor products● Complementor investment in business● Relative size in customer value chain● Complementor contribution to customer economics● Exclusivity of relationship● And so on
Business segment economic value	<ul style="list-style-type: none">● ROI (return on investment) – profitability● Risk- volatility and covariance● Option value● Investment base● Cashflows

Experimentation as the basis for effective change

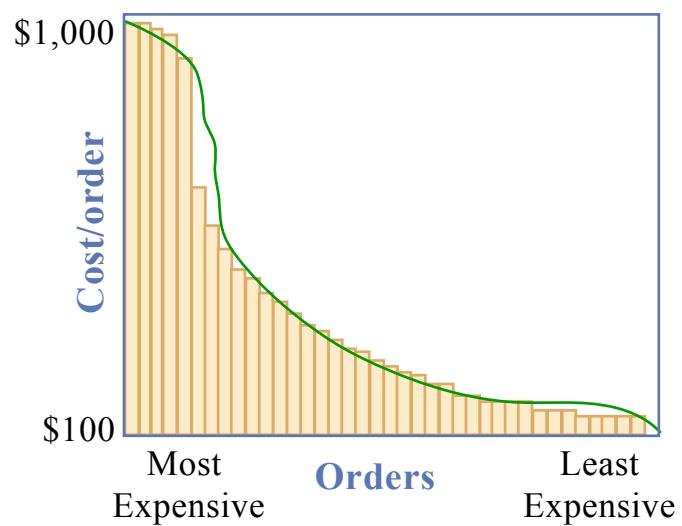
Size of Change	Slow	Fast
Large	<p>The middle road: lower returns, or unacceptable when first mover advantage is high</p>	<p>Unacceptable risk, as a starting point. Highly desirable as endpoint</p>
Small	<p>Ineffective: lower returns, or unacceptable when first mover advantage is high</p>	<p>Testing: the relevant area for experiments leading to large change</p>

1. The Value Chain of the Local Business Data Circuit

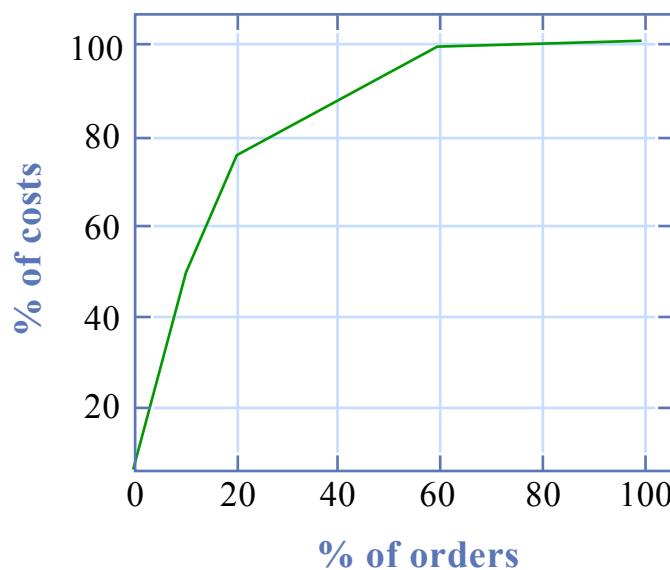


Average Cost = \$395/order

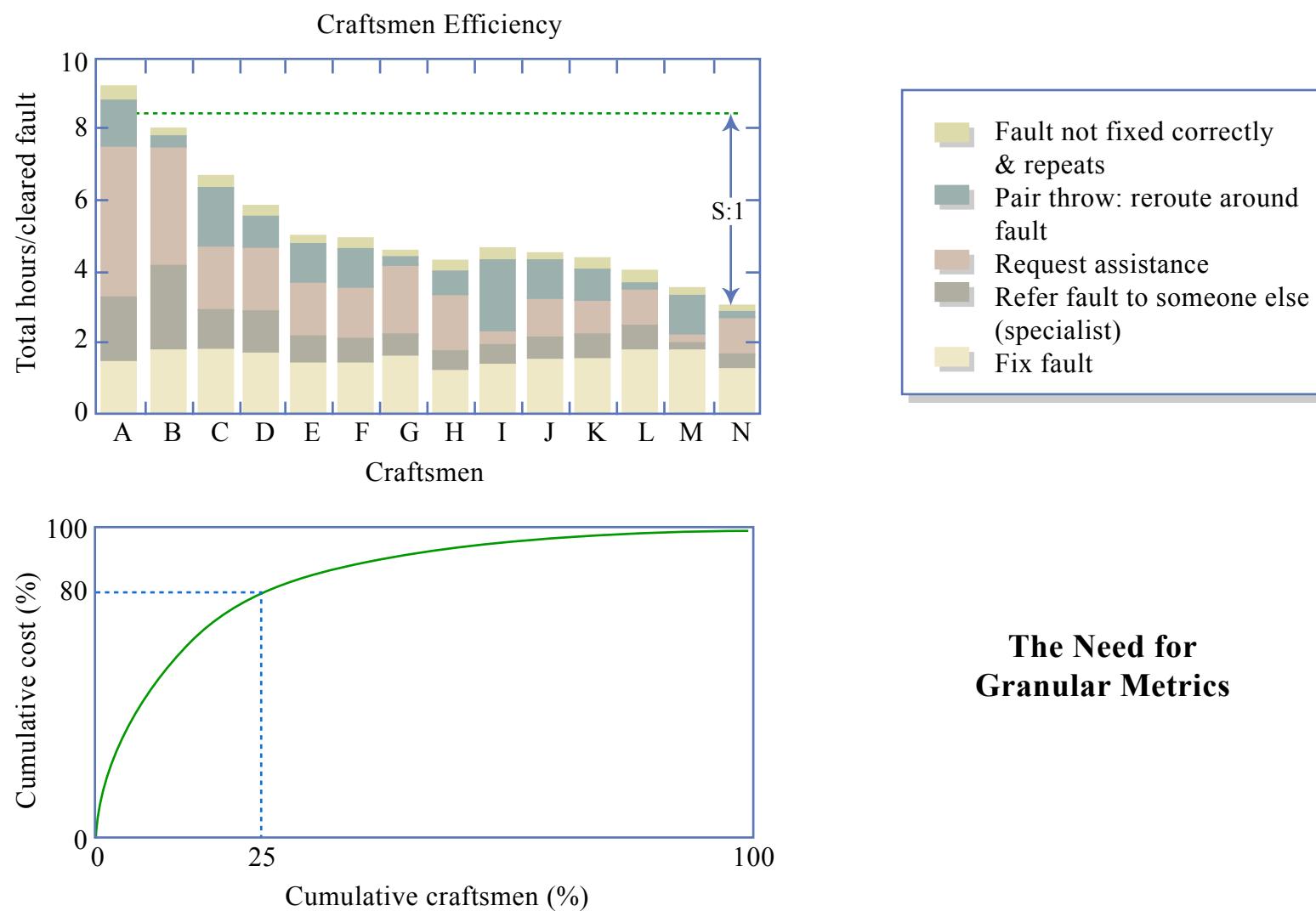
2. Individual Order Cost



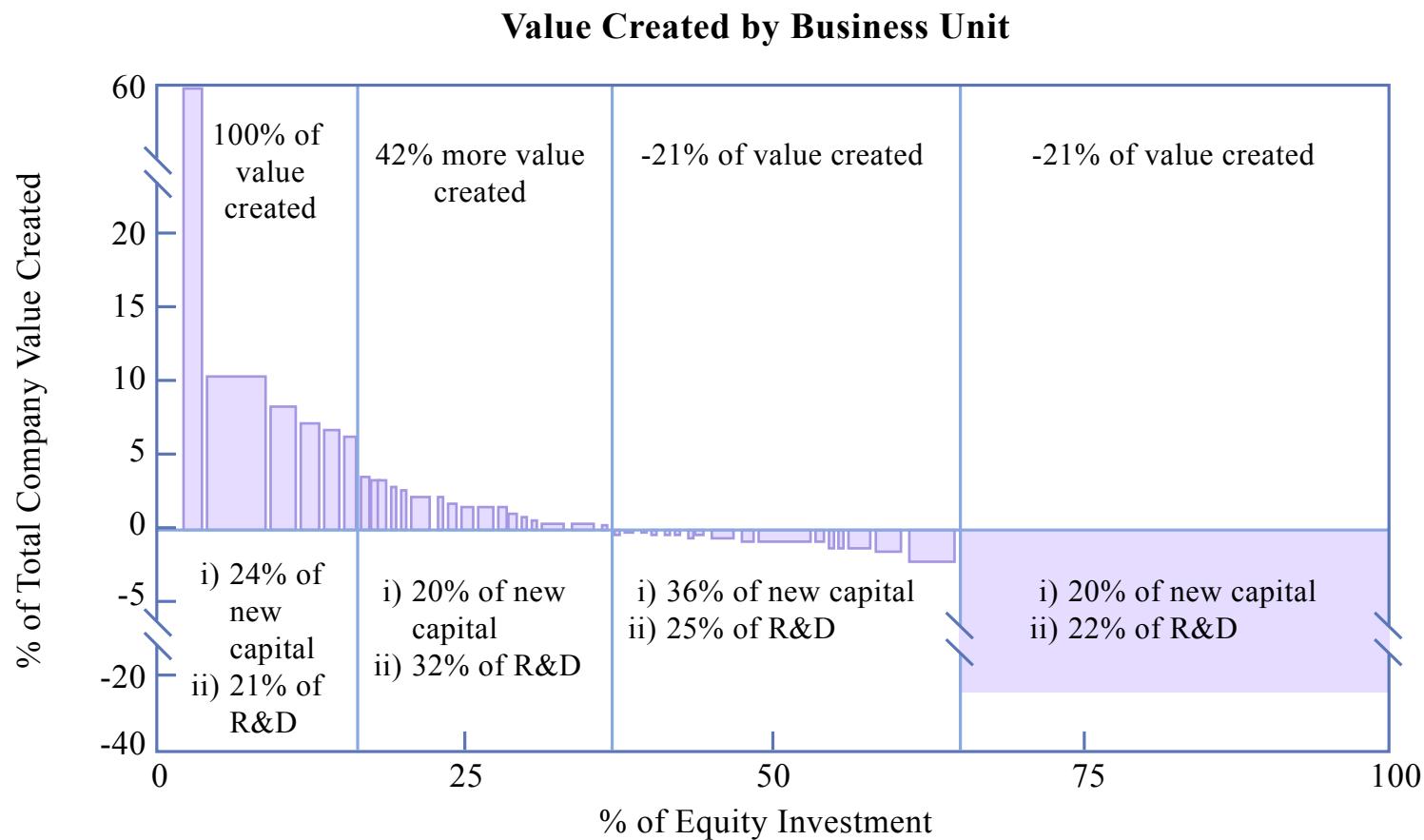
3. The 80-20 Cost Effect



THE BEHAVIOR OF COST - THE CASE OF BUSINESS DATA SERVICES



THE BEHAVIOR OF COST BY INDIVIDUAL WORKERS



- 1) 6 BUs contribute 100% of value created
- 2) 16 more BUs contribute another 42% of value created
- 3) Those 22 BUs are worth \$ 15.5 billion, on an equity investment of only \$4.2 billion
- 4) 44% of new capital investment and 53% of R&D spending over the next three years is going to BUs earning economic profits
- 5) 56% of new capital investment and 47% of R&D spending are going to BUs that will be generating economic losses

SOURCES OF VALUE CREATION

Capital One- achieving a Total Customer Solutions through Customer Targeting

