

Excellence and Innovation for Business

Welcome!

er. Congreso Internacional de Calidad

ALIDAD

Praveen Gupta President, Accelper Consulting Architect, Brinnovation™ Pioneer, Six Sigma om ASQ Fellow

Innovation. Profitable Growth

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Objective and Outline Today

Objective:

Understanding role of excellence and innovation for ensuring profitable growth and creating new opportunities

Outline:

- 1. Understanding Innovation
- 2. Making innovation
 - Pervasive
 - Predictive
 - Profitable
- 3. Our Portfolio of Innovation Programs

U.S. Economic Outlook



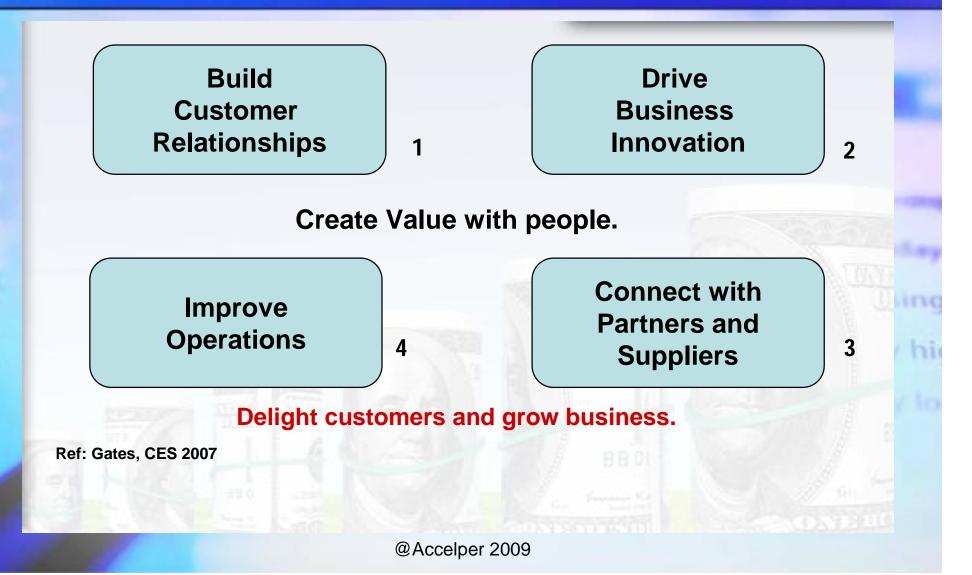
What to do?

Economy down 8.5% GDP down 5.5% Lost Factory Orders/ Jobs Worse than Tequila Crisis

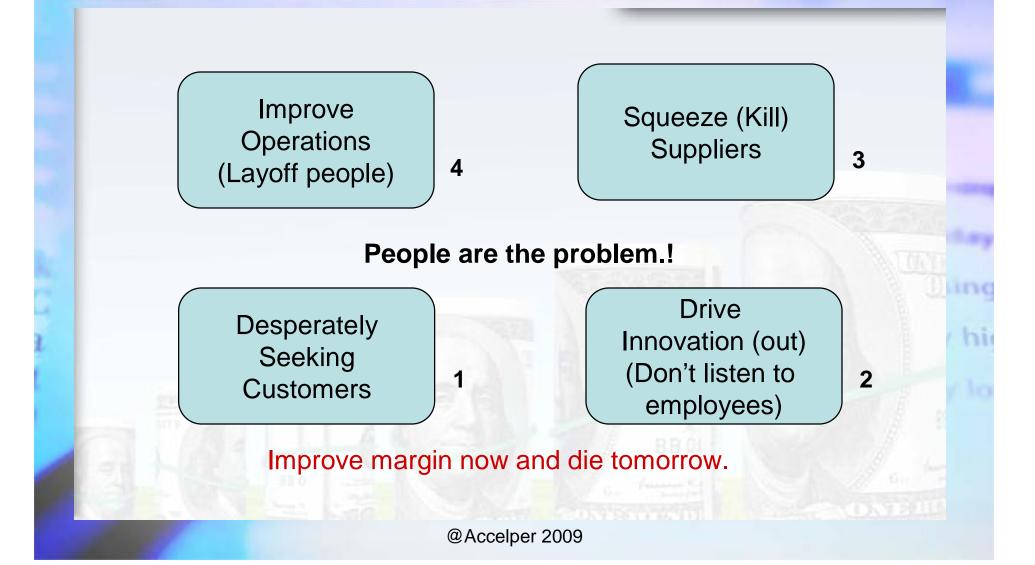
Mexico Economy



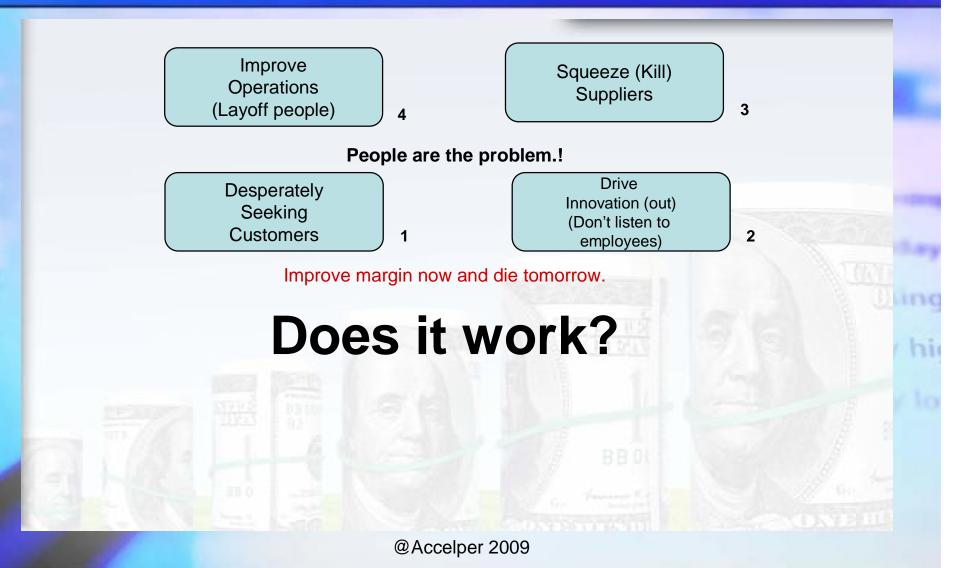
Bill Gates' Business Model



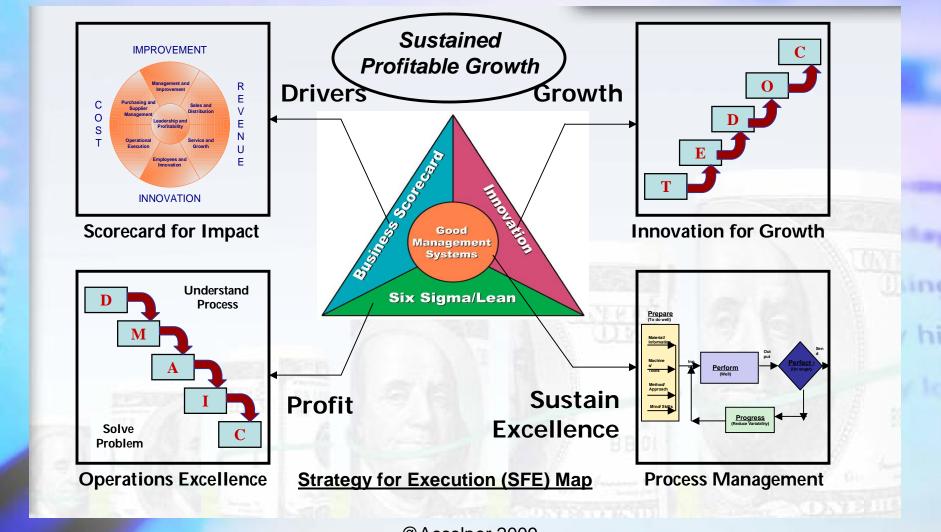
Current Model for Success



Current Model for Success



Sustaining Profitable Growth



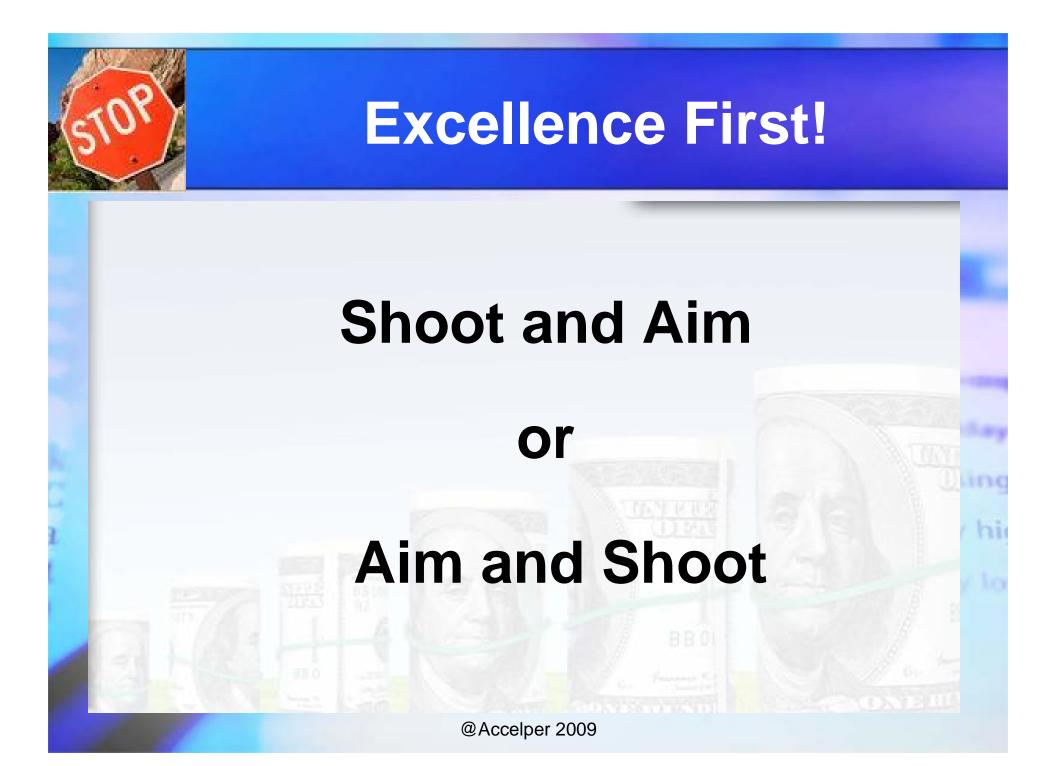
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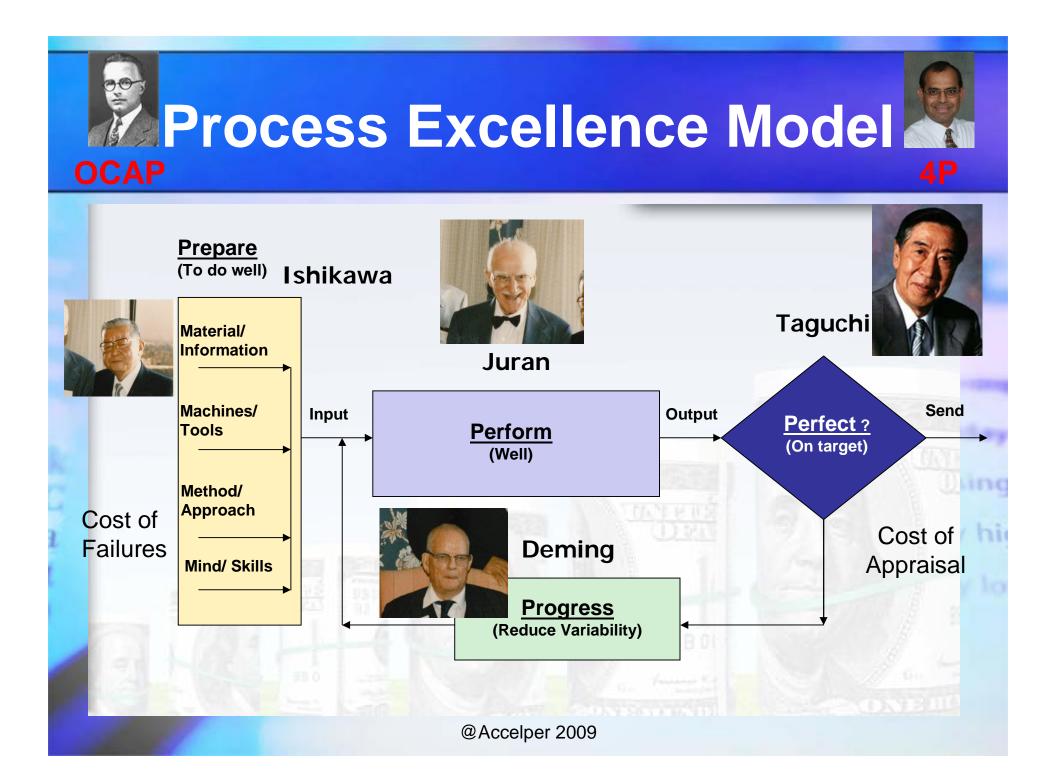


Performance Evaluation

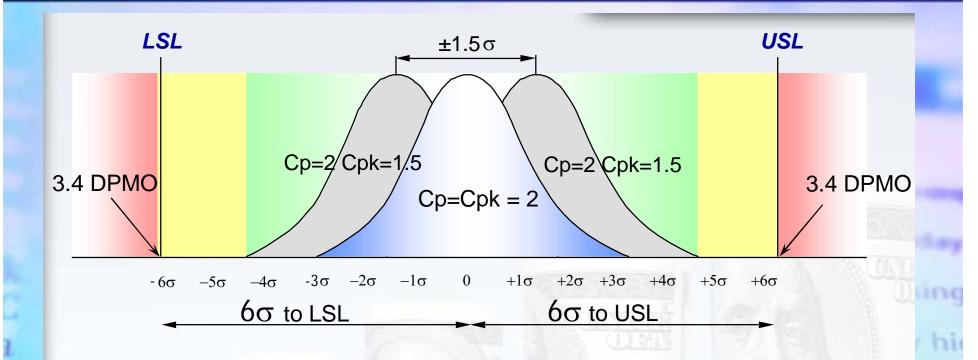
					Perfection	Innovation	?
Experience				Performance Control	Praveen G. /Kaplan	Praveen G. /Christensen	
100%			Design Control	Bill Smith/ Mikel Harry	4P Model, Scorecard	Brinnovation/ Innovation	
90%		Process Control	Taguchi/ Tom Peters	Six Sigma/ ISO 9000			
80%		lshikawa/ Juran	DFM/JIT/ MBNQA/	100.00	10.000		10
70%	Product Control	Problem Solving	-		ter e ret	56	a lan
60%	Shewhart/ Deming	(SEIN-		TE	CLER I		
50%	PDCA	83 to 12	10	1.10			
	1960 Rust Removal	1970 Quality Control	1980 Quality Assurance	1990 Quality Management	2000 Knowledge Mgmt	2010 Design/ Innovation	2020 Customer Design







Six Sigma



Six Sigma means having **twice** the capability as required by the customer, bringing closer to the target.

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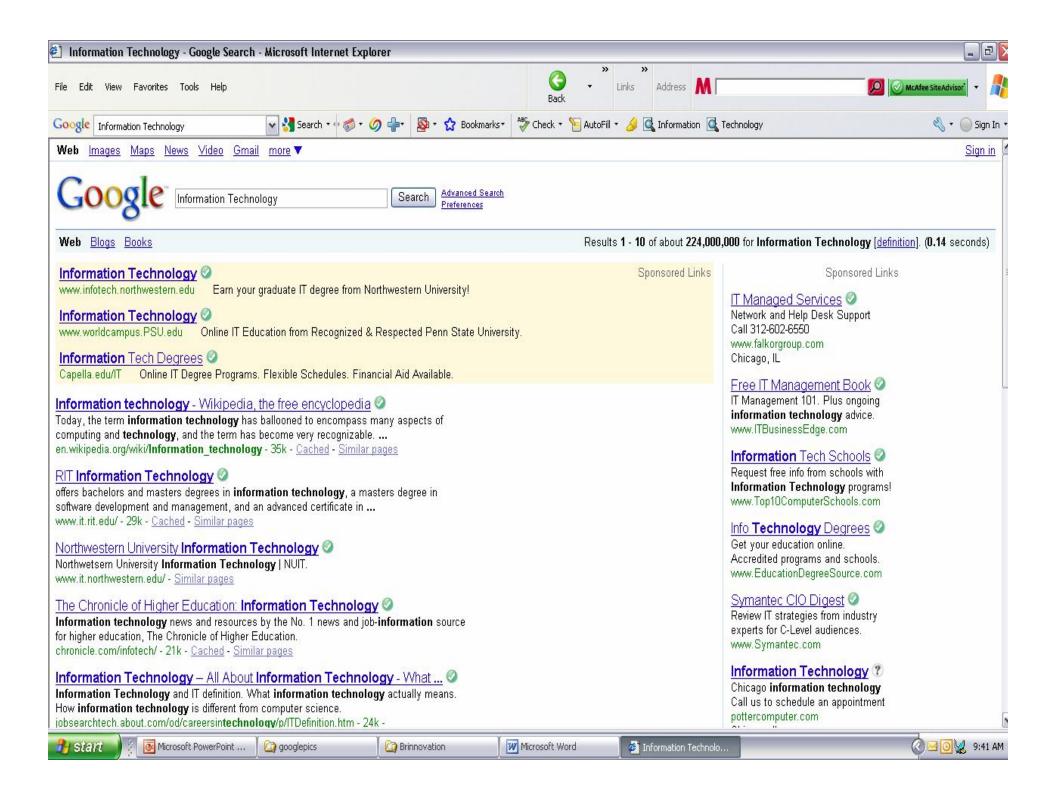




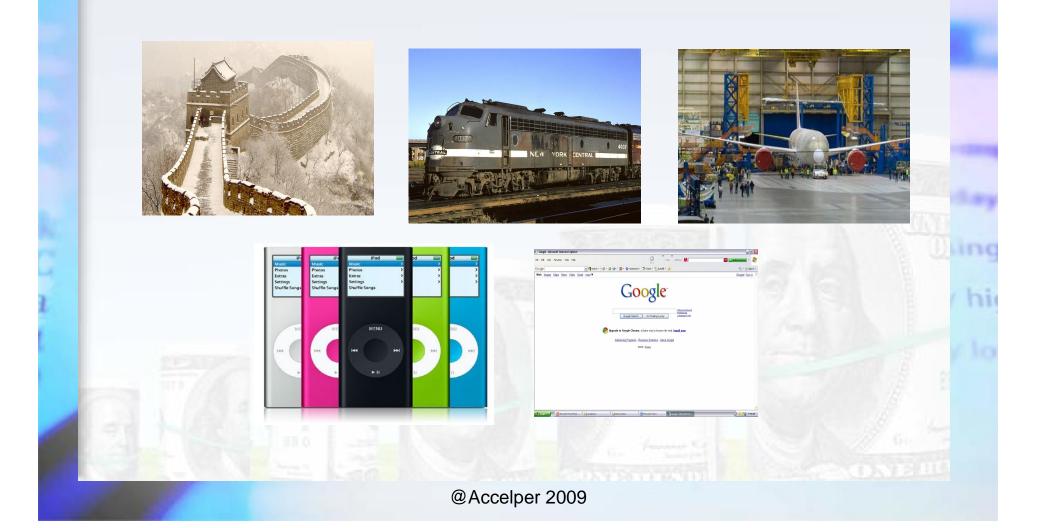




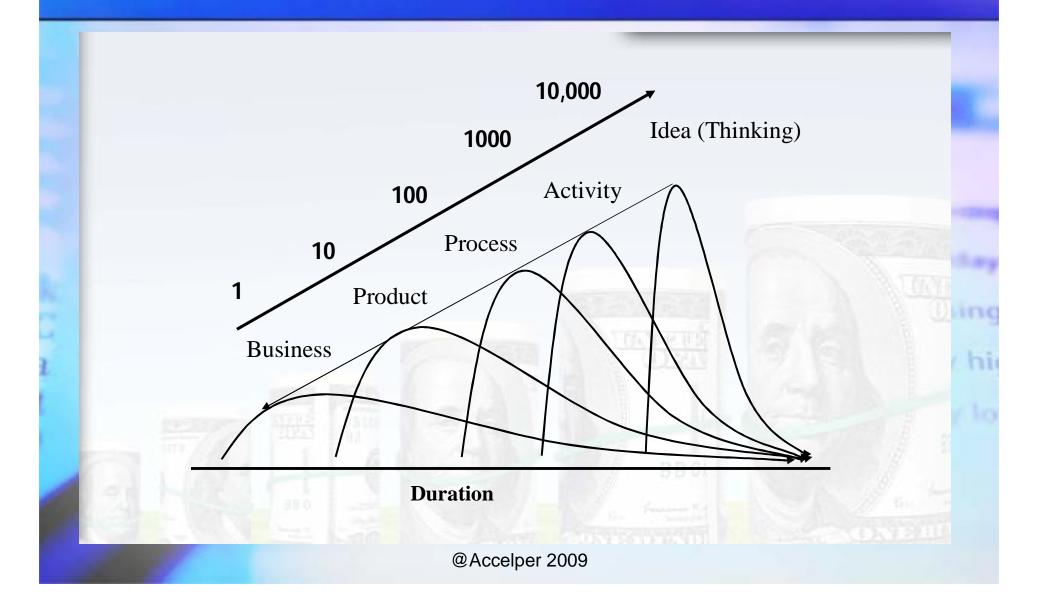
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What is the difference?



Dynamics of Innovation



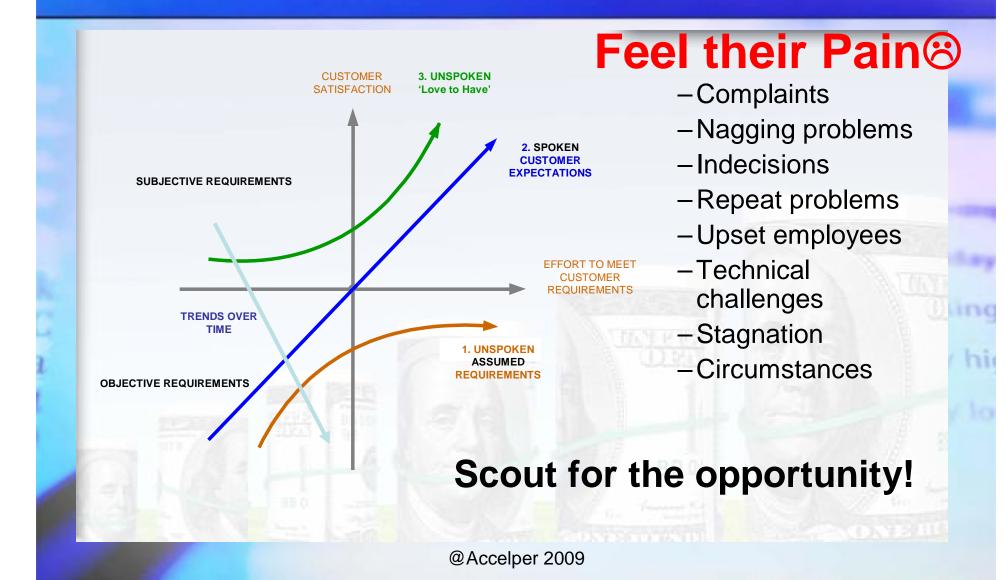
Innovation Framework

Innovation = Effort x (Speed of Thought)²

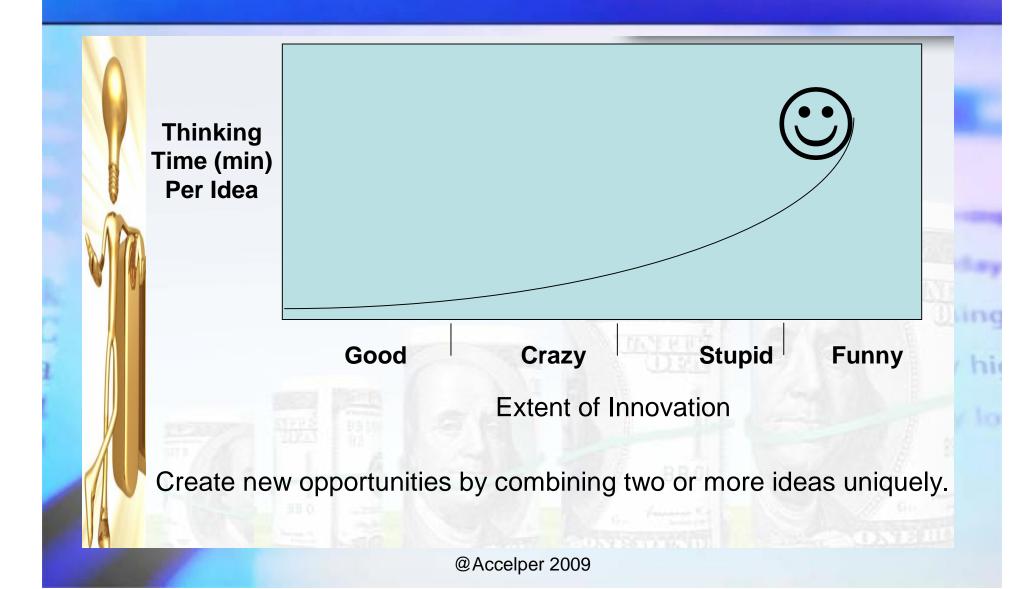
Where speed of thought is a function Of Knowledge, Play and Imagination.

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Love Thy Customers!



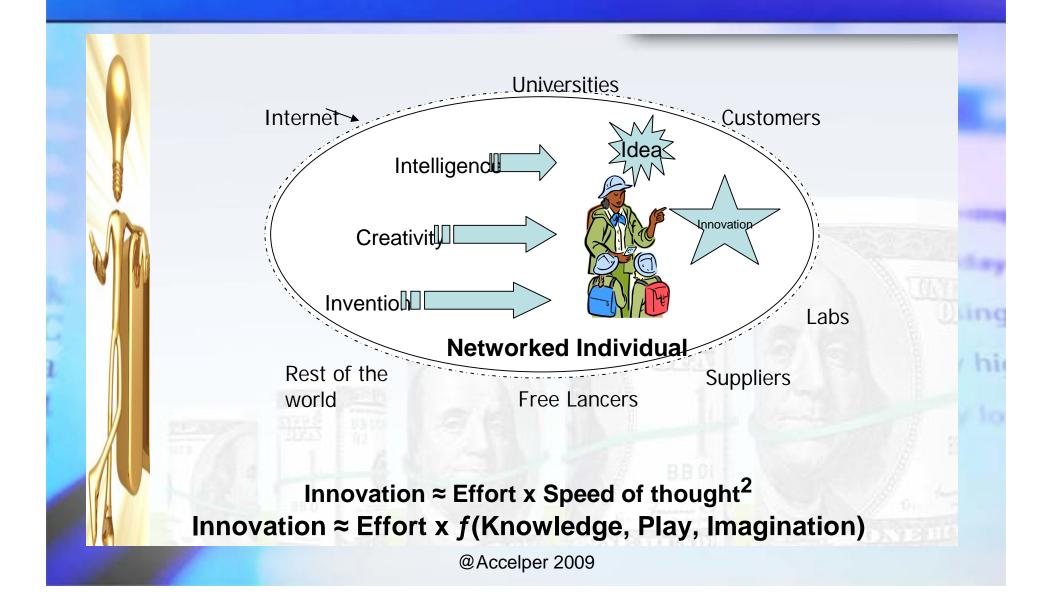
Thinking G.C.S.F



Make it Fun!



The Building Block of Innovation



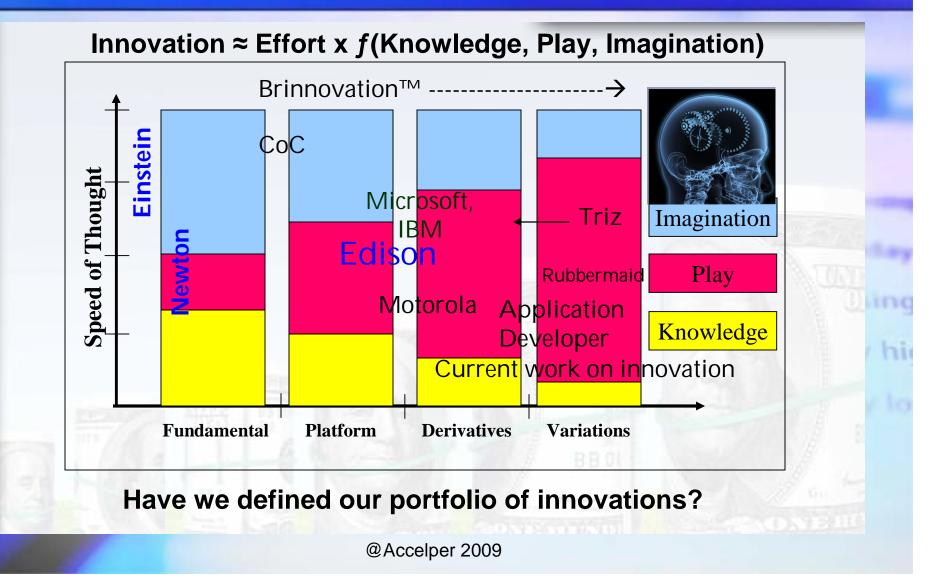
Assessing Personal Innovation

Resources (R)	Knowledge (K)	Play (P)	Imagination (I)	Innovation Value (Iv)	Comments
Degree of resources or time committed	Extent (%) of knowledge based on research and experience	Percentage (%) of possible combinations of various variables explored	Dimension extrapolated as a percentage of ideal solution for breakthrough improvement	Estimated Innovation Level	This is an initial estimation of the proposed model. Further work is required.
Example					
50% (Limited time and insufficient resources)	75% (Significant knowledge and experience gained, some latest work is to be explored)	40% (Percentage of combination of variables explored mentally, experimentally or through simulation. Work is in progress)	66% (Selected dimension is extrapolated such that improvement is expected to be about 30%, which is about 66% of the breakthrough improvement)	0.182 (Long way to find an innovative solution due to lack of effort and play. To accelerate, one needs to improve all elements of innovation.)	Innovation Value = 0.5*((0.75+0.4+0.66)/3) ² = 0.182 Einstein

Think, You Can!



Portfolio of Innovations



Portfolio of Innovations

story

Platform



Derivative



Variation

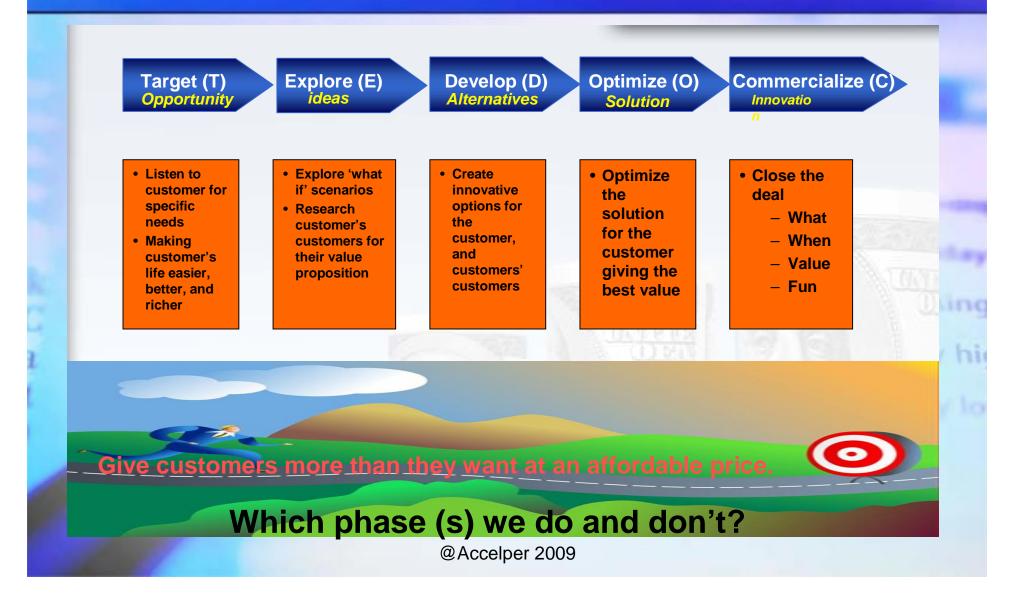
Breakthrough Innovation = Rule of 2

If less is better, at least 50% reduction (/2) If more is better, at least 100% increase (x2)

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The T.E.D.O.C. Methodology

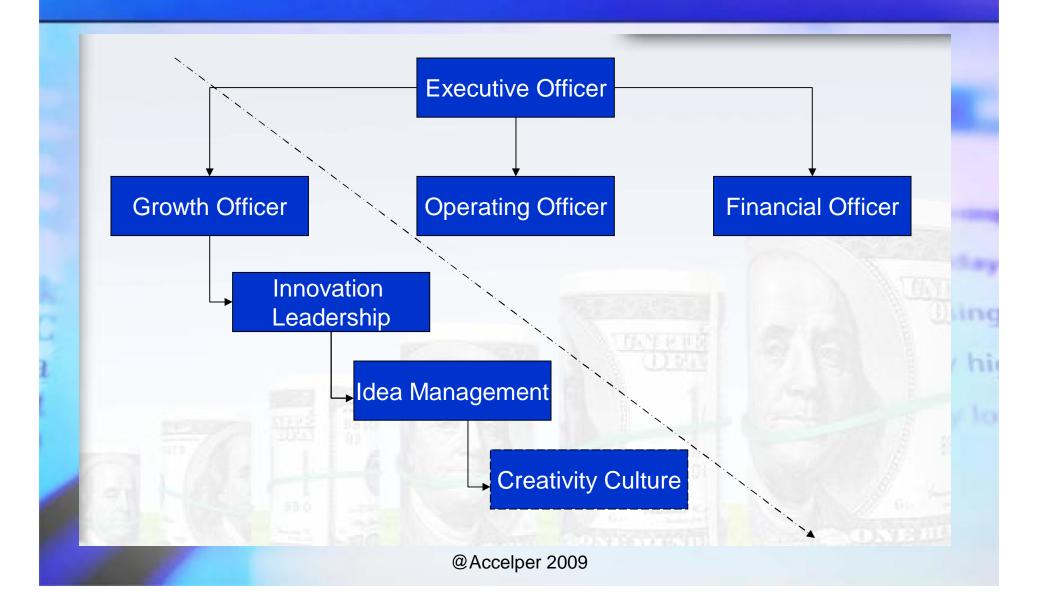


Easing Customer Pains

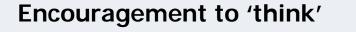
Potential ideas for growth	Effort x f (Customer Knowledge, Play, Imagination)				
Classify customer needs	Fundamental	Platform	Derivative	Variation	
Categorize Customers' buying needs (Schedule for innovation)	5 - 15 yr. Long Term	2 - 5 yr. Short Term	1 - 2 yr. Near Term	Now – 1/2 yr. Immediate	
Ideas to innovate now (What to innovate)			BBOI	Gar O.Yau	

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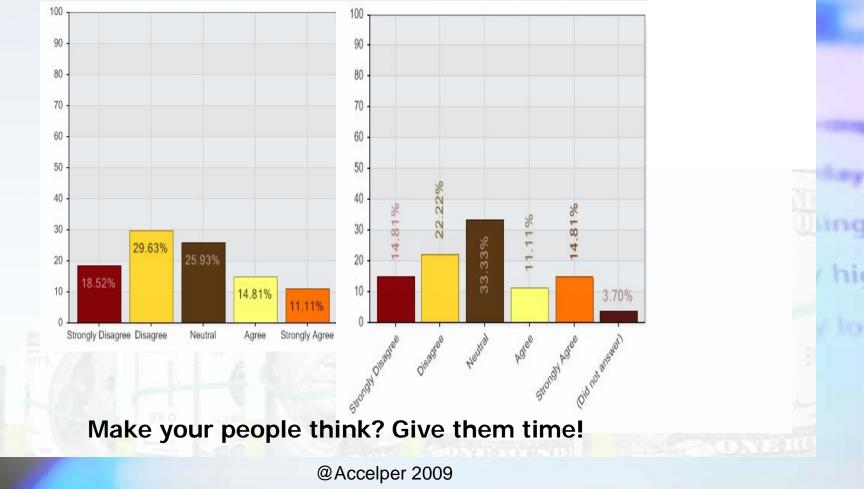
Organization for Innovation



Freedom to Think!



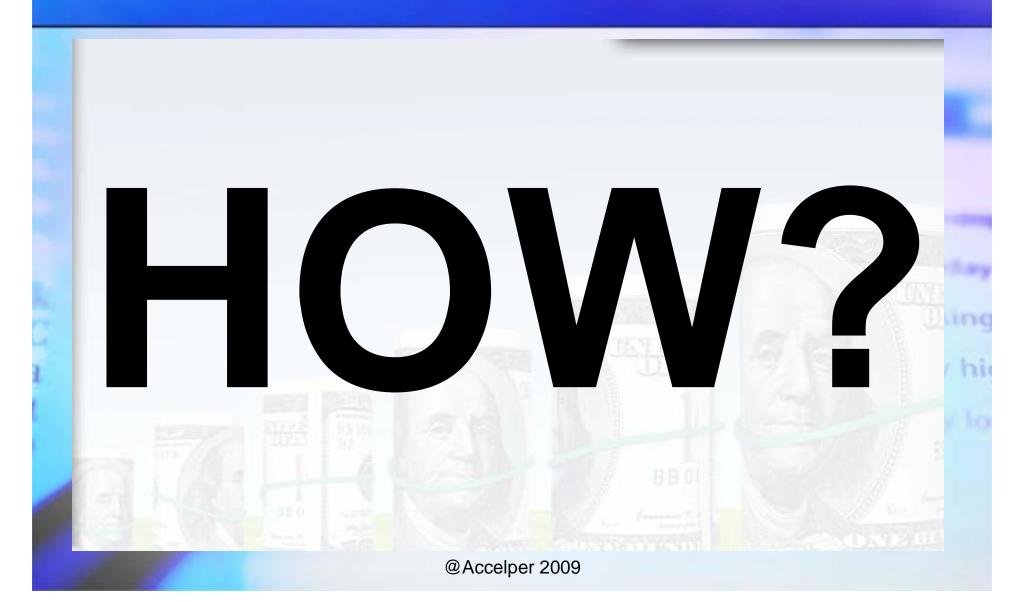




Time and Place to Think!



Making Innovation Predictive



Business Innovation Index

Measures	Company Data	Company Goals	Company Score	Weighted Score
CEO Recognition for exceptional value creation	Number of employees recognized = 2	5 employees recognized per month	=(2/5)*100 = 40%	=.3*40 = 12
Number of innovative ideas per employee	Number of ideas for the month = 40	1000 ideas per month	=(40/1000)* 100 = 4%	.4*4 = 1.6
Revenue Growth (% of sales for innovation)	\$1M for innovative solutions	\$2M revenue for new products	= (1/2)*100 = 50%	.3*50 = 15
Business Innovation Index (BIN)	1	JAN B	BOI	28.6%

Return on Innovation

BW Top Ten	Ranking	Most (RGxPG)	Best (\$)	ROI (\$)	\$ / year
Apple	1	Google	Google	2.85	.71
Google	2	Apple	Dell	2.83	.71
Toyota	3	Genentech	Apple	2.04	.51
GE	4	Amazon	eBay	1.74	.44
Microsoft	5	eBay	Genentech	.83	.21
PnG	6	Motorola	3М	.60	.15
3m	7	Starbucks	Microsoft	.52	.13
Walt Disney	8	Boeing	Cisco	.51	.13
IBM	9	Walt Disney	Motorola	.41	.10
Sony	10	Dell	HP	.36	.09

Return on Innovation

What should be done?

Sustaining Profitable Growth



The Task at Hand

- 1. Your job is your business
- 2. Run like a business, not like a job
- 3. Information and technology are your competitive weapons

4. LEARN TO EXCEL AND INNOVATE

- 5. Love and serve your customers
- 6. Create value-add services
- 7. Service your solutions
- 8. Sell, lead, and enjoy!

The Innovation Class (IIT Chicago)



Training Programs @ IIT

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Business Innovator Certification

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of Pragmaxis

has successfully fulfilled theory and practice requirements for Business Innovation, and thus be recognized as

Certified Business Innovator

Business nnovation Praveen Gupta, President

Certificate Numbe

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Issue Date ____

Business Innovation Conference





"I believe creativity happens, but I also believe that Mr. Gupta has helped uncover a way to make innovation happen." - Dipak Jain, Dean, Kellogg School of Management



For more information, please contact

Business

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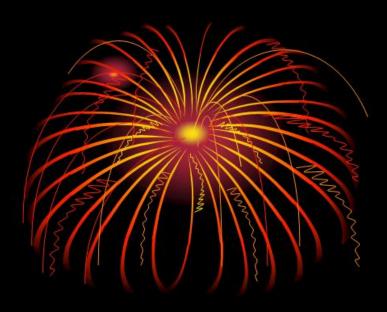
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Asking questions is critical for becoming more innovative!



Praveen Gupta



Praveen Gupta, a management consultant, has authored several books including Business Innovation in the 21st Century, Stat Free Six Sigma, Six Sigma Performance Handbook, and Service Scorecard. Praveen is Editor-in-Chief of International Journal of Innovation Science, and writes a monthly column Manufacturing Excellence in the Quality magazine. Praveen frequently speaks at conferences internationally.

Praveen has been recognized as a thought leader in areas of excellence and innovation. He has developed Six Sigma Business Scorecard, the 4P model of excellence, Breakthrough innovation, and Stat Free Six Sigma methods that have been translated and used worldwide.

Praveen, the founding president of Accelper Consulting (www.accelper.com), has worked at Motorola, and AT&T Bell Laboratories, and consulted with about 100 small to large size companies including CNA, Abbott Labs, Superior Essex, Dentsply, Hexel, Experian, Sloan Valves, Weber Markings, Wayne State (Ford), and Telular. Praveen taught Operations Management at DePaul University, and Business Innovation at Illinois Institute of Technology, Chicago. He has conducted seminars worldwide for over 20 years.

Accelper Consulting provides training and consulting services in the area of innovation, Six Sigma and business performance for achieving sustained profitable growth. Praveen can be contacted at <u>praveen@accelper.com</u>.