



JANUARY 4-7
2009
Anaheim, CA

Accel/per

Innovation. Profitable Growth.



CITY COLLEGES OF CHICAGO



Teaching Innovation

Raising the Bar in Community Colleges through Innovation

Praveen Gupta, praveen@accelper.com, Tel: (847) 884-1900

Business Innovator Certification





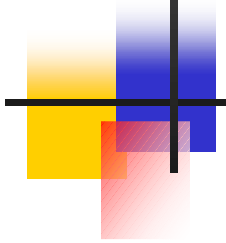
Outline

1. Challenges at Community Colleges
2. Education in Innovation Today
3. The Teachable Innovation Framework
4. The Business Innovation Course

Challenges

1. Role in the new economy and the new administration in Washington
2. Education in innovation
 1. For students/ Credits
 2. For professionals/ Non-credits
3. Entrepreneurship centers for businesses
4. Utilizing Government grants for innovation



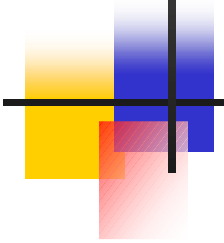


Education in Innovation

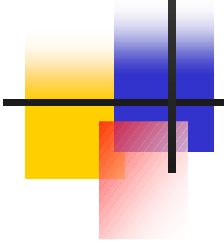


The Innovation Education

1. Limited to courses on creativity
2. Creativity through brainstorming
3. Focus on entrepreneurship with assumed innovation
4. Variety of business methodologies
5. Innovation remains a random act or flash of genius



Innovation Framework

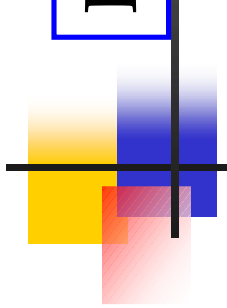


**“Intellectual property has the
shelf life of a banana.”
- Bill Gates**

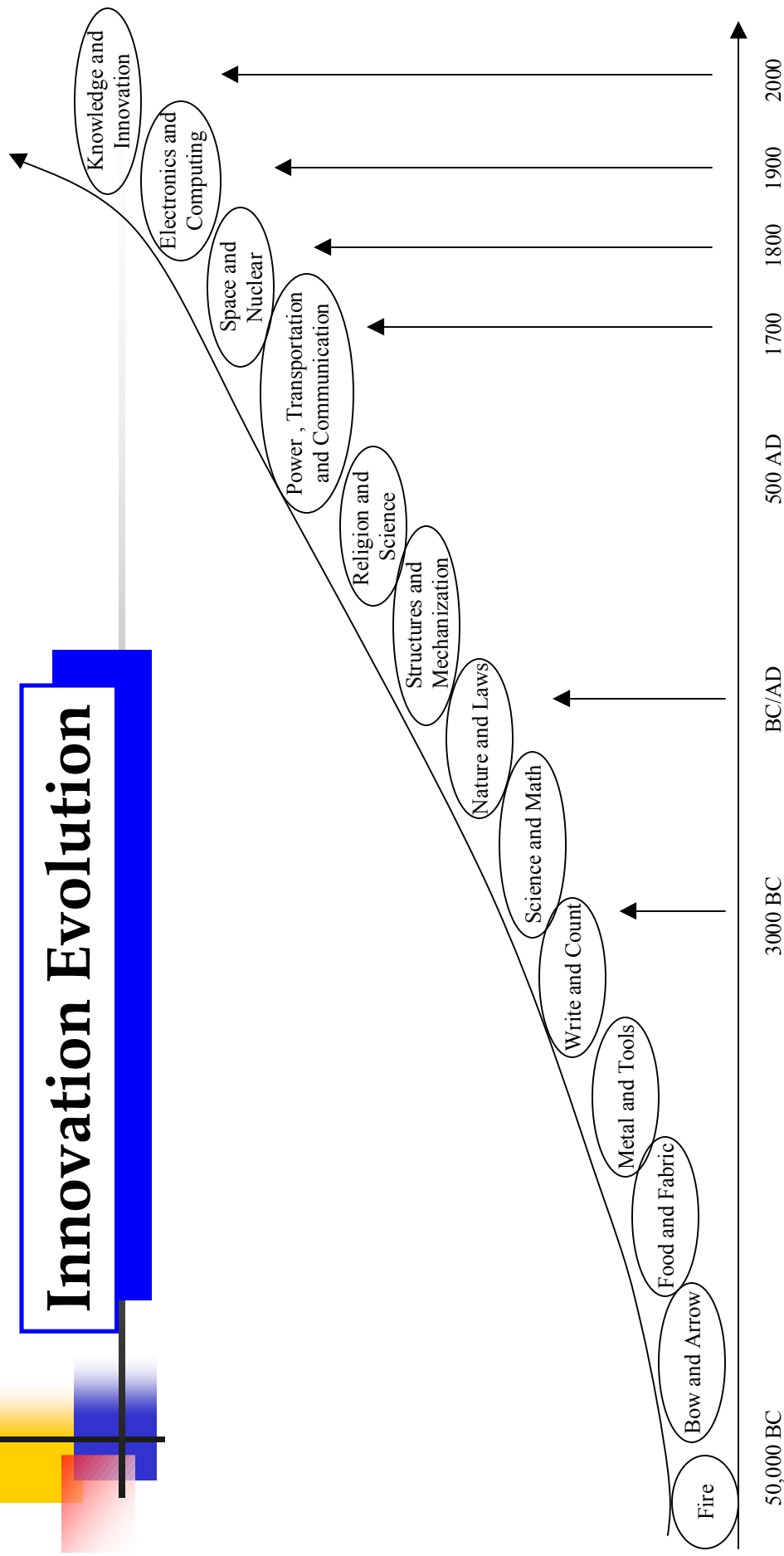


The Innovation Framework Background

1. Current models are market driven, scenario based, and reputation based models, e.g., Michael Porter of Harvard Business School
2. Most colleges are about teaching strategies, entrepreneurship, and finances
3. Government focuses on funding through NIST, and NSF
4. Congress passed Act of Innovation four years ago
5. PACs formulate innovation policies
6. No one worked on the science and engineering of innovation
7. The Brinnovation™ framework is a systemic approach to develop the science of innovation.



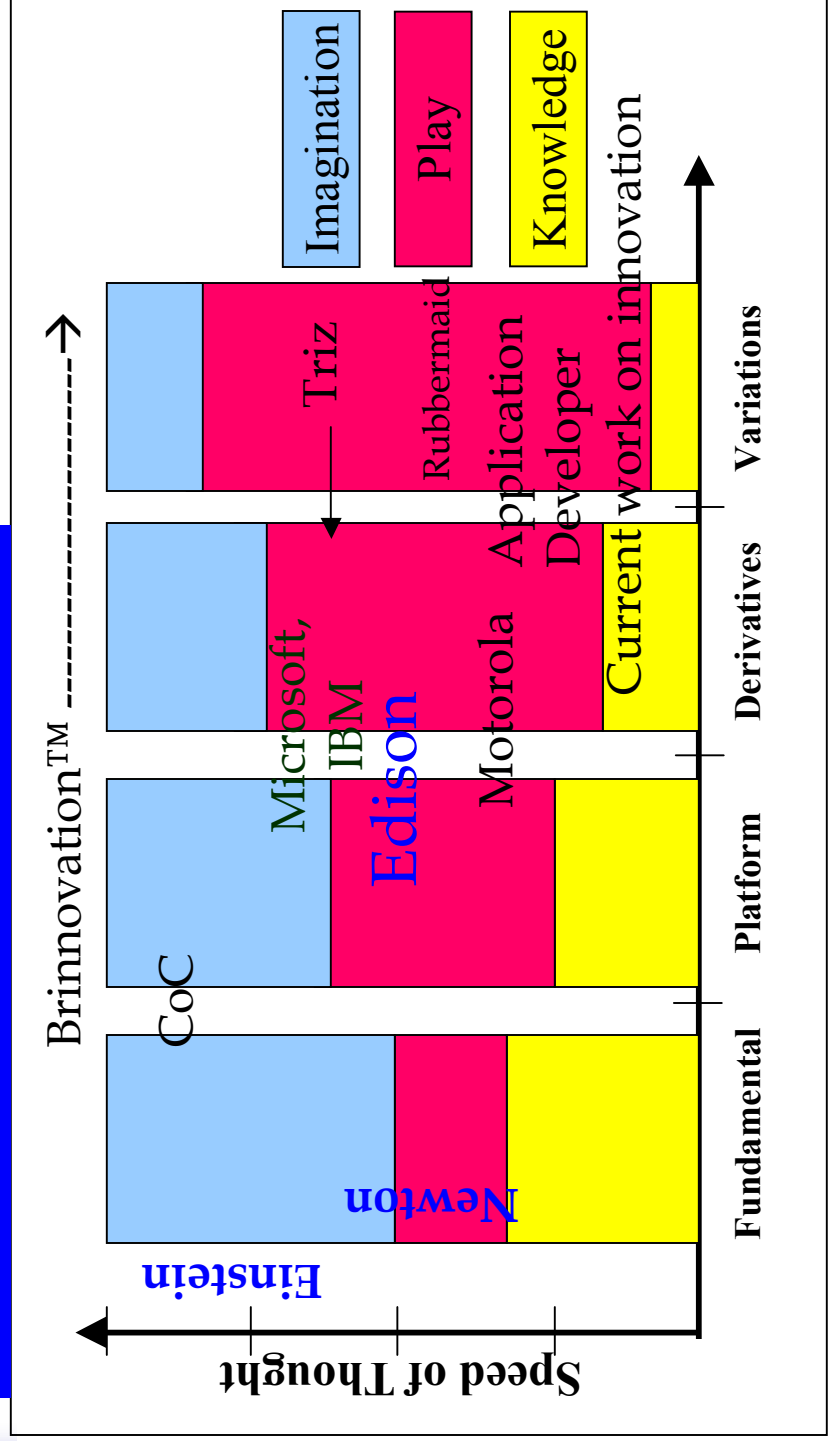
Innovation Evolution



Timeline of Innovation
(Not Plotted to Scale)
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Portfolio of Innovations



Innovation ≈ Effort x f(Knowledge, Play, Imagination)

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Innovation Examples

Platform



Derivative



Variation



User Applications

Word, Excel, Powerpoint, Access, Partner innovations

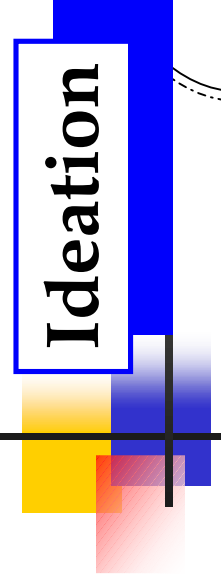
Standard, Professional, Student, Home, Small Business Versions, Partner innovations



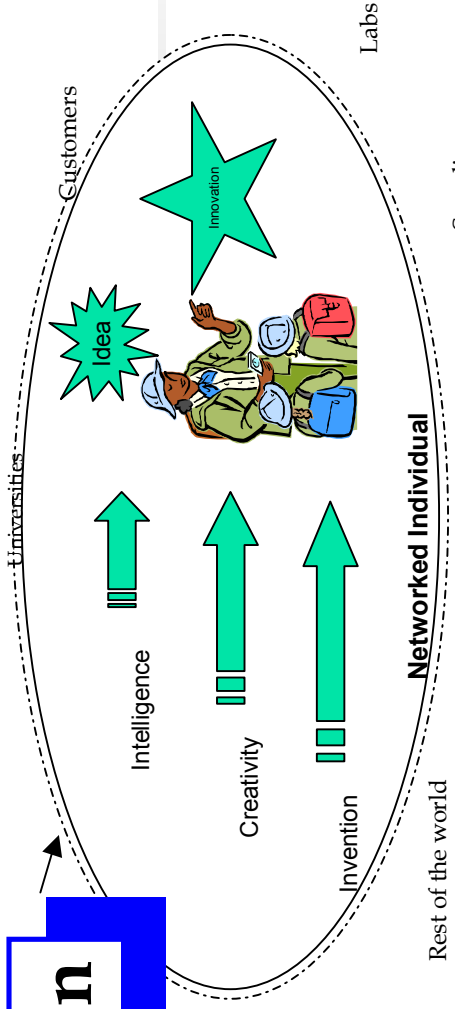
Roles for Innovation

Types of Innovation	Primary Drivers	Key Aspects	Deliverables	Frequency	Time to Innovate	Ownership
Fundamental	University/ Laboratories	Science/ Knowledge	Concepts/ Revelations	Rare	Years – Months	Govt. (s)
Platform	Corporate R&D	Technology/ Large Sys.	Equipment/ Capability	Sporadic	Months – Weeks	Govt./ Business
Derivatives	In-house/ Outsourced	Application/ Small Sys.	Product/ Service	Regular	Weeks – Days	Business/ Individuals
Variations	Networks/ Individuals	Disposables/ Ideas	Packaging/ Integration	Continuous	Days – On-demand	Individuals

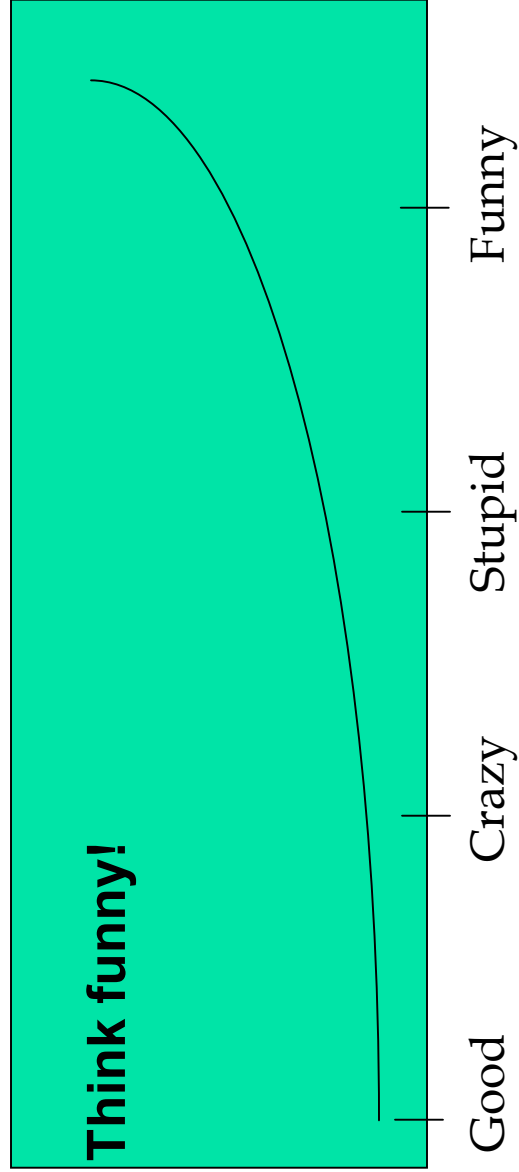
4



Ideation



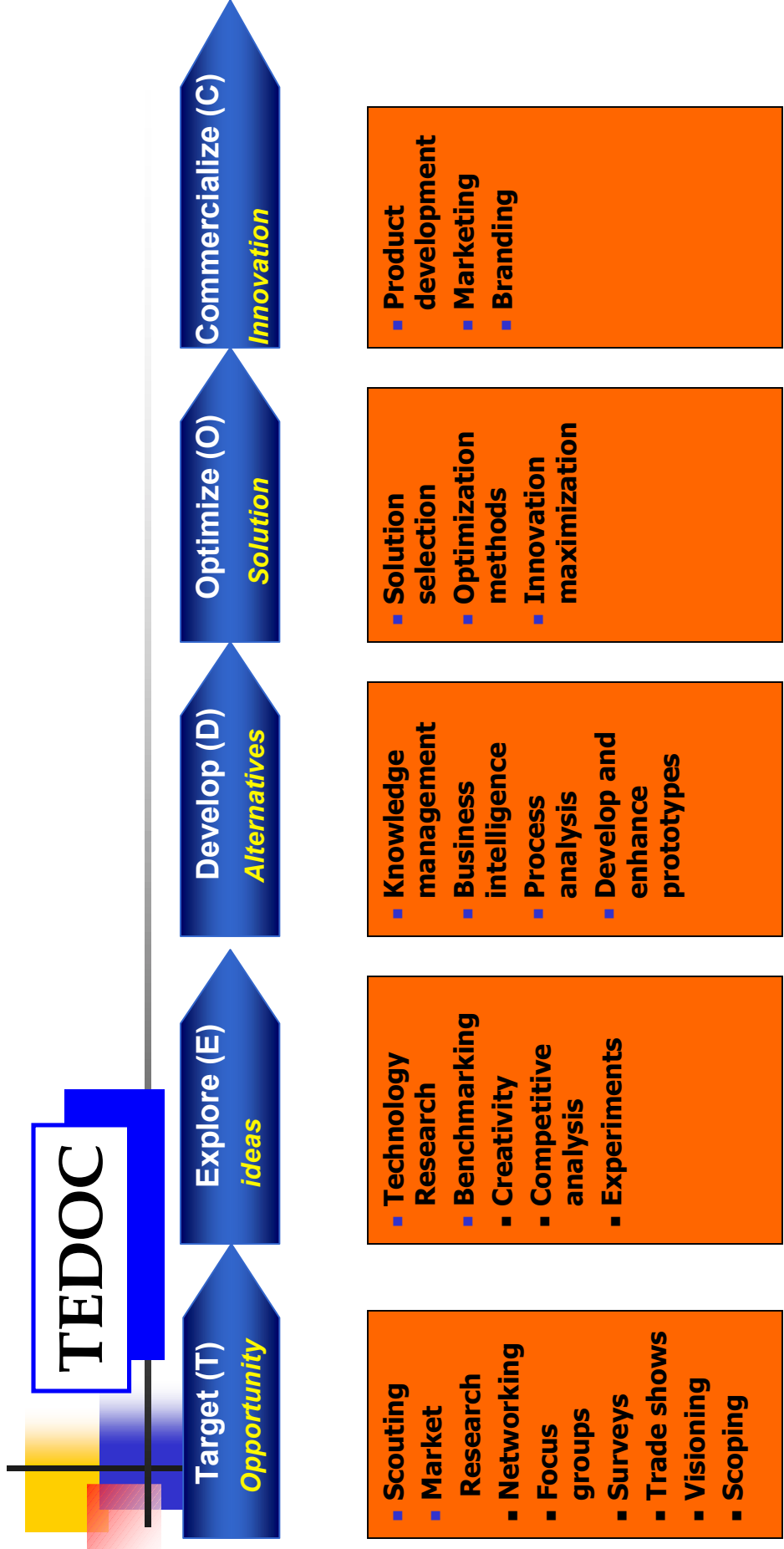
Network



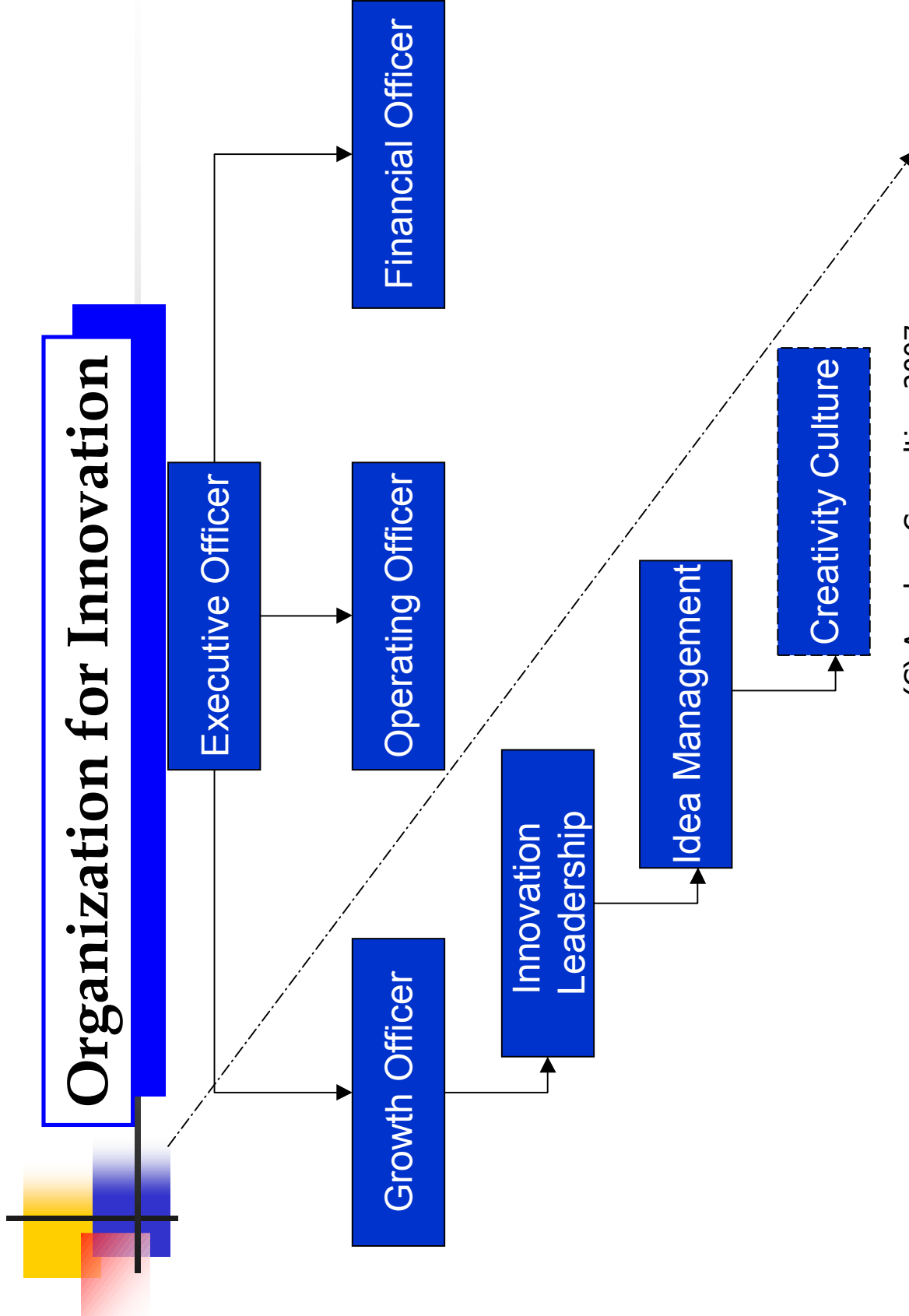
Think funny!

Extent of Innovativeness
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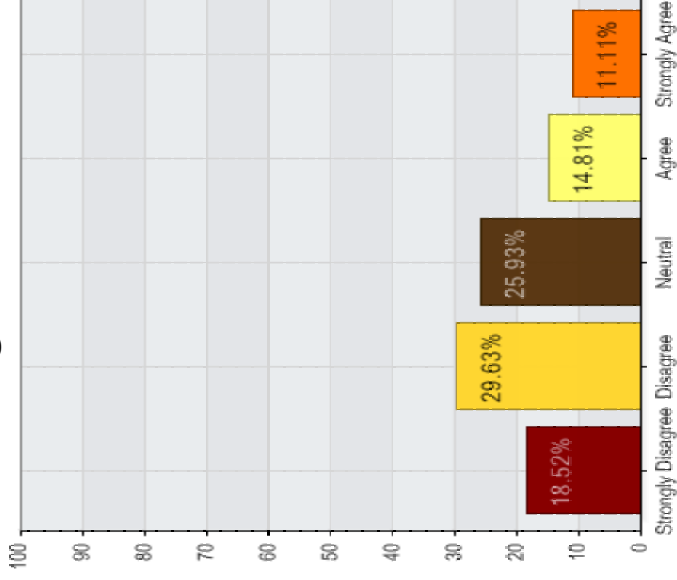
Collaboration among stakeholders and customer engagement is critical



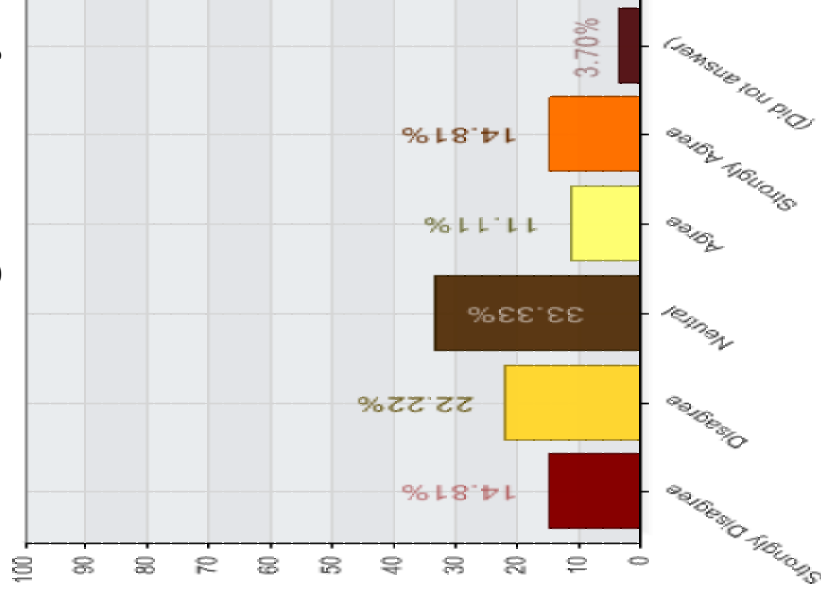
Time to Think



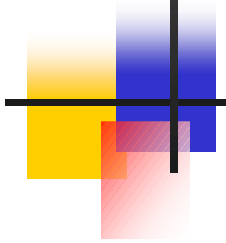
Encouragement to 'think'



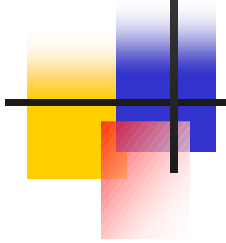
Freedom to give 'funny' ideas



Ref. Accelper Survey
at www.accelper.com



The Innovation Course



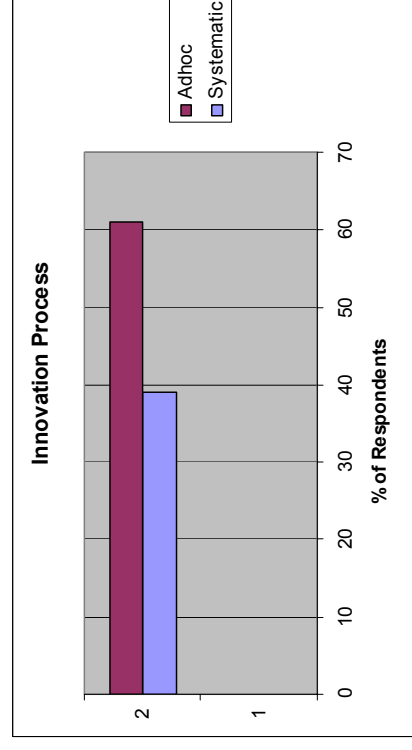
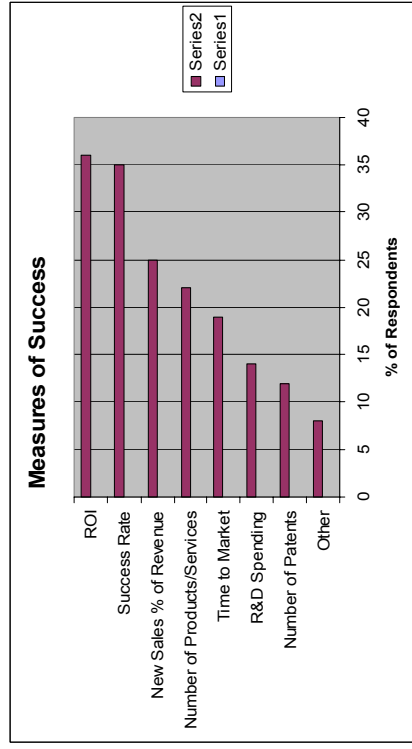
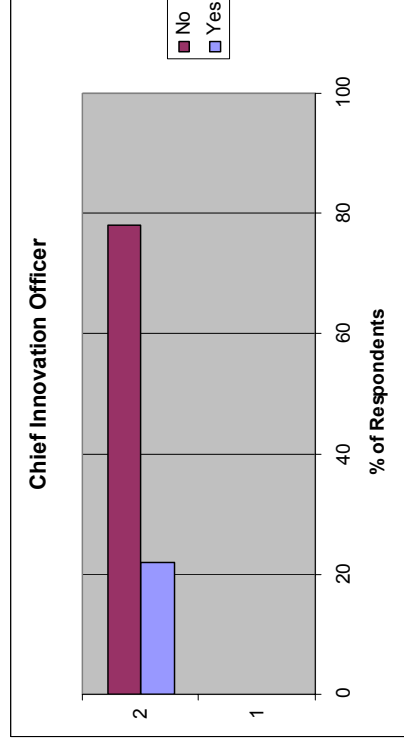
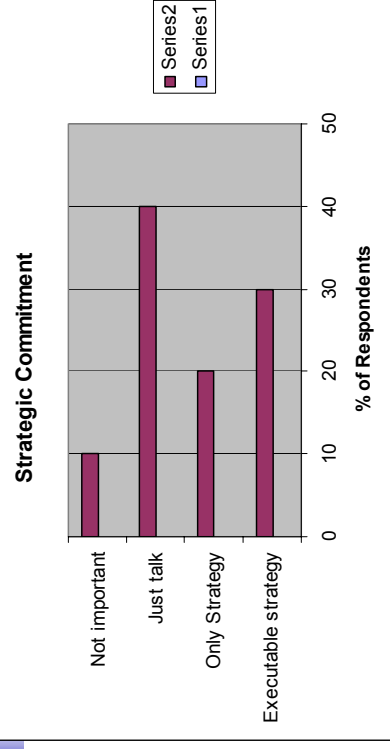
Why Innovate?

To Sustain

Profitable Growth

and Create Jobs

Innovation Today





The Business Innovation Class

1. Class has been taught for five semesters with about 100 students
 2. Students like the class, and remember after they leave IIT
 3. The Business Innovation class consists of 11 3-hour lectures, 3 guest lectures, Midterm, four HBS cases, a Research paper, an Innovation Project, and the final innovation project to be completed in two hours
 4. Students are required to give presentation at the Student Innovator Award competition sponsored by Microsoft and other companies
- The course is fun to teach, and builds confidence for students leaving the class capable of innovating immediately

Teaching Innovation

1. For Credits – ITM-582 Business Innovation at IIT's ITM Department
 1. The Business Innovation course ITM 582 has been taught for over two years.
 2. Established Student Innovator Award last year to recognize innovative work by students.
2. Non-credits - Corporate education and certification
 1. 1 day Executive Innovation Solutions
 2. 2 to 3 day Managing Innovation
 3. 5 day Innovation Boot Camp
 4. Certificates awarded with Continuing Education Units (CEU)s
3. Launching www.iBusinessInnovation.com January 15, 2009



The Innovation Community

1. Launched Business Innovation Conference at IIT Chicago (www.businessinnovationconference.com)
2. Established an accredited Business Innovator Certification
3. Setting up local Business Innovation Networks
4. Publishing International Journal of Innovation Science
5. Publishing the www.ibusinessinnovation.com portal
6. Developing the field of innovation through research and collaboration
7. Offering education by teaching innovation course
8. Strategizing bottom up approach through education and awareness
9. Community Colleges must become active in helping communities grow and thrive





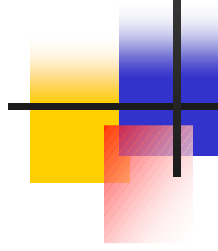
Bringing Innovation to Community

1. **Promote** innovation through media, events, and recognition of organizations and individuals for innovation in the community
2. **Educate** individuals and organizations in practicing innovation and entrepreneurship
3. **Facilitate** practice of innovation through laboratory, guidance, and adult learning
4. **Collaborate** with community organizations in publishing Innovation Index to establish an innovation thermometer



Next Steps

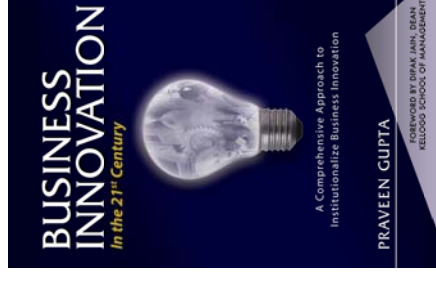
1. Commit to teach innovation in addition to entrepreneurship
2. Join the Business Innovation journey that we have started with Illinois Institute of Technology, Joliet Junior College, and Chicago Community Schools
3. Commit funds to learn innovation methods, set up an innovation laboratory, and raise awareness in community



Thank You!!!

For more information, please contact

Praveen Gupta, Accelper Consulting
praveen@accelper.com
(847) 884-1900 or (800) 680-0700



Invest in Business Innovation for Sustained Economic Growth!

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.

