BECOMING AN INNOVATOR: UNCOVERING YOUR INNER PROBLEM-SOLVING POWER POWERING THE "DYNAMICS OF INNOVATION" TO ENABLE SPECTRUM OF POSSIBILITIES - 3

PARTHA S. GHOSH

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This document provides an outline of a presentation and is incomplete without the accompanying oral commentary and discussion.

Backdrop ... Purpose of the 5 lectures?

1

2

4

5

Agenda for the 5 Days



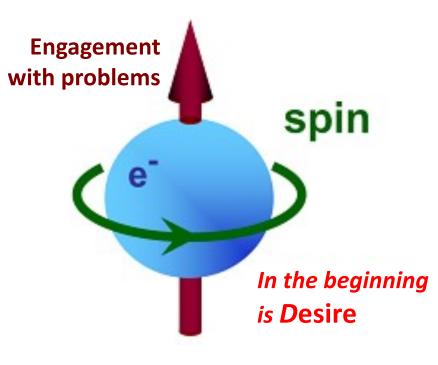
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Putting Innovation in the context of the Modern Civilization

- Demystifying Innovation: Unlocking the Power within you
- **3** Nurturing Genuine Problem-Solving Skills: The 3 Vectors?
 - Becoming an Innovator: Opportunities abound?
 - Practicing Innovation: Being in the flow as an active player

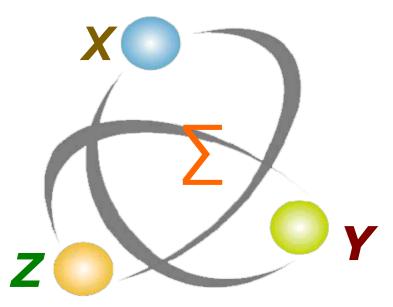
Culture is fundamental – unlocking the "power of desire" to solve problems around you...

Culture is indeed a very fundamental property of a society: It could be energizing .. as it could be suffocating..... each one contribute to it



Ensuring Innovation Is Self-Perpetuating

Dynamics of different types thought & Cultural attributes



Agenda Session 3

Nurturing Genuine Problem-Solving Skills: The 3 Vectors?

- 1. Ninety percent of problem solving is in asking the right question?
- 2. Problem solvers' Charisma: Excelling along 3 Vectors Conscience, Courage, & Communication
- 3. Relating with your own environment with positive and resilient mindset

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Problem Solving?

Defining the problem right?



Deeper insights on the domain

Solving the problem with rigor

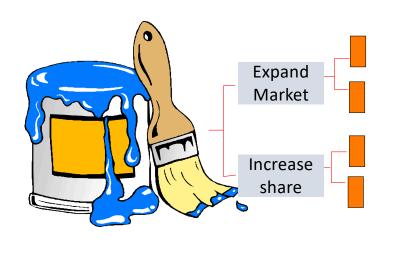


Sensing early signals and/or non-obvious patterns with open mind set*

"If I had an hour to solve a problem I'd spend 55 minutes thinking about the problem and 5 minutes thinking about solutions."

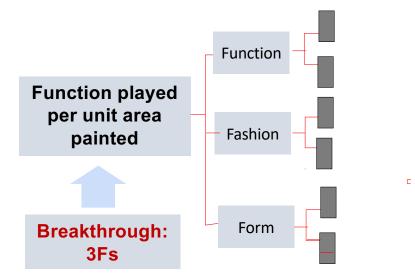
The formulation of the problem is often more essential than its solution, which may be merely a matter of mathematical or experimental skill." — Albert Einstein

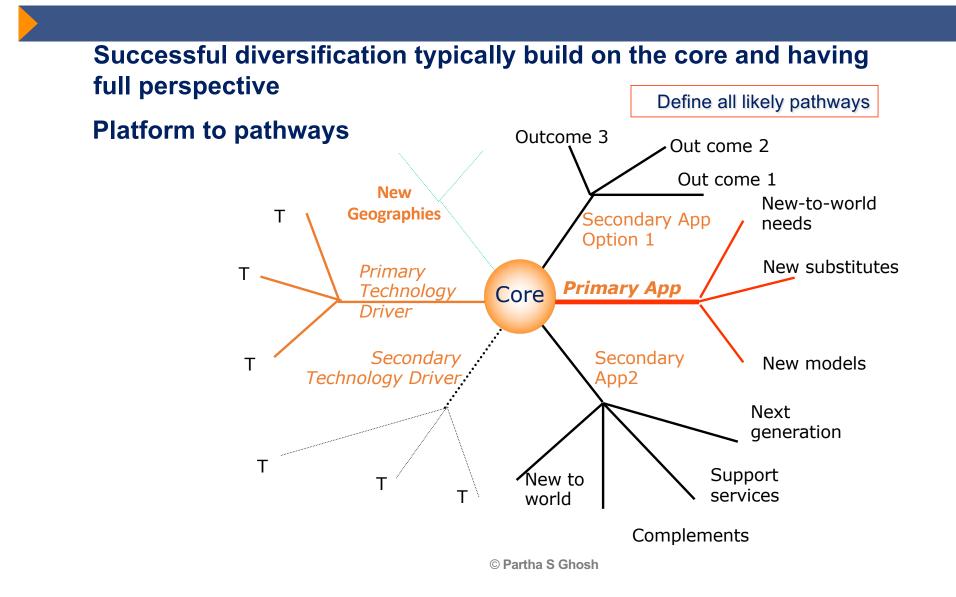
Paint case: Defining the problem with a different perspective



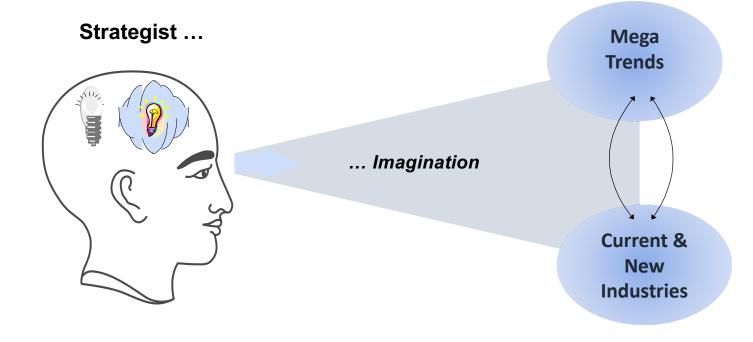
Value of Paint: \$/liter

Value of Paint: \$/unit area for function performed

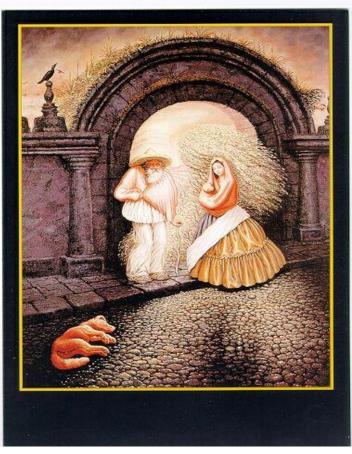




It is the imaginative capacity that help strategists to creatively emerging trends with current and future industries



Power to observe is perhaps the first critical step – A quick test

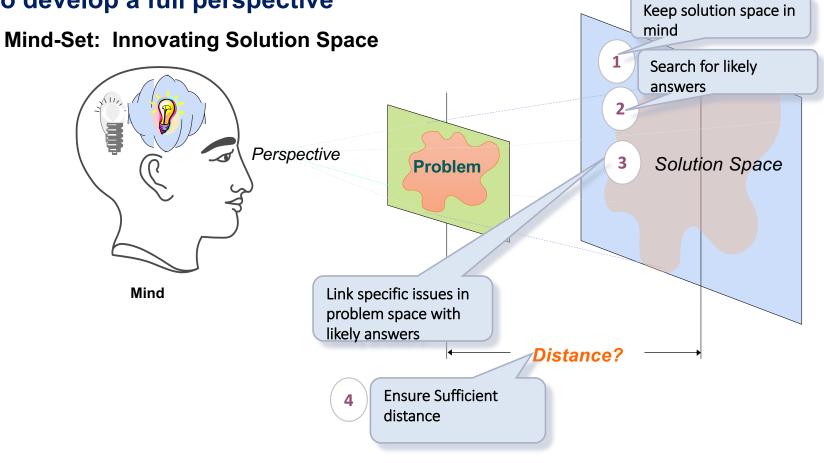


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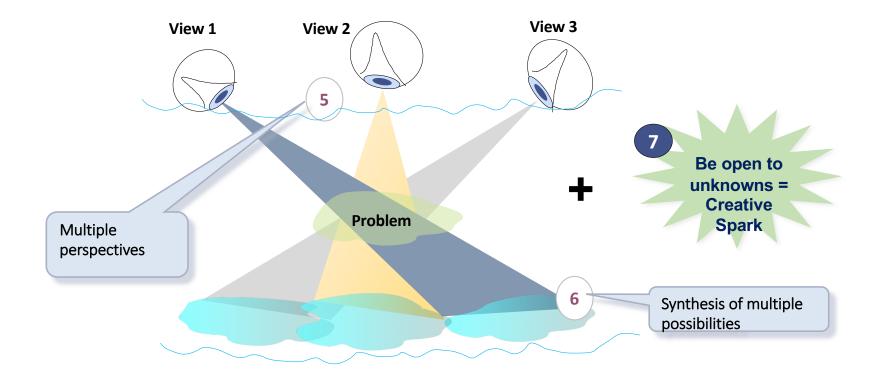
Power to observe is perhaps the first critical step – A quick test



Ensure there is sufficient distance from the problem you wish to solve to develop a full perspective



Three more: Ensure multiple perspectives are captured

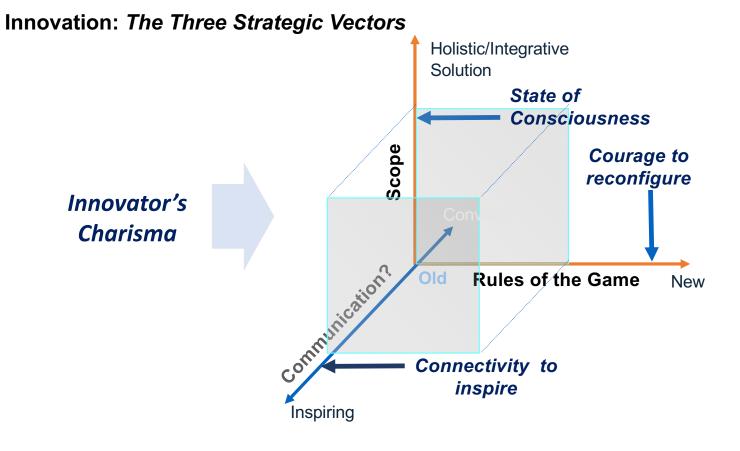


Agenda Session 3

Nurturing Genuine Problem-Solving Skills: The 3 Vectors?

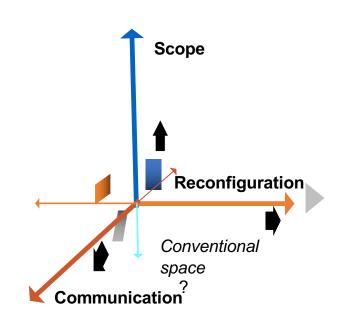
- 1. Ninety percent of problem solving is in asking the right question?
- 2. Problem solvers' Charisma: Excelling along 3 Vectors -Conscience, Courage, & Communication
- 3. Relating with your own environment with positive and resilient mindset

We will now examine what defines Innovation Charisma



The Three Vectors and the Fifteen rules...

Expanding Strategic Space

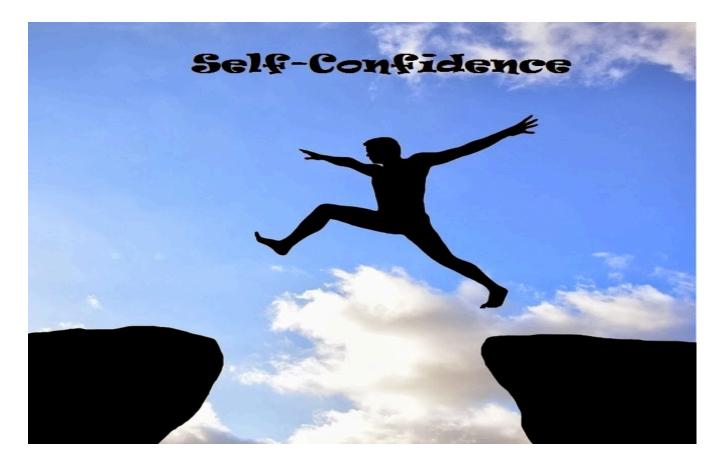


- 1. Ensure there is sufficient distance from the area of interest
- 2. Engage the end user as the designer
- 3. Be open to unknowns = full perspective
- 4. Cross migrate ideas to develop ideas/concepts or solutions
- 5. Seek to neutralize forces that discourage ideas
- 6. Know they self Passion, Skill & bandwidth
- 7. Define your relative/competitive position
- 8. Stretch possibilities/options on both demand & supply sides of value creation
- 9. Leverage & build on the latest networks of skills
- 10. Have fall back options
- 11. Milestones, Metrics and rewards make innovation manageable
- 12. Develop compelling story to inspire
- 13. Ensure "Just in time" team work
- 14. Every out come positive or negative, unexpected or not all are important data points.
- 15. Experimentation is continuous to remove the next bottleneck or capture next value

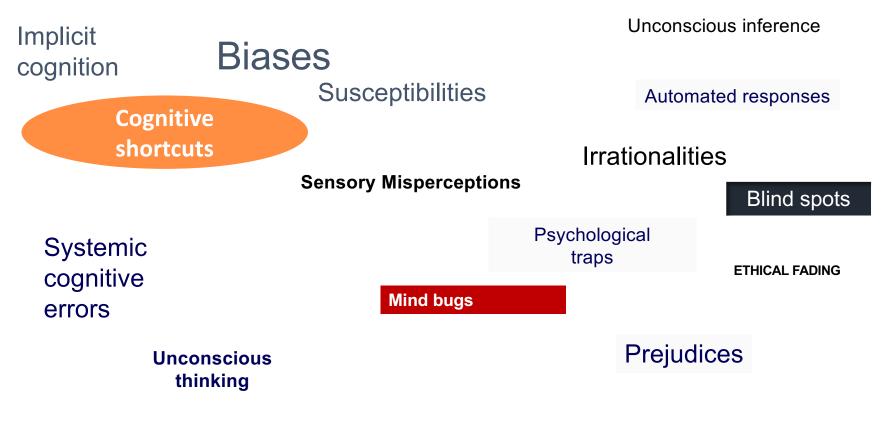
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Innovation Rules: ©

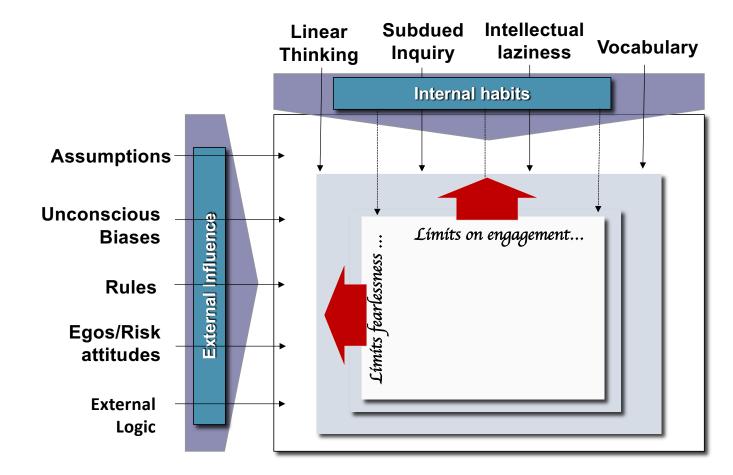
Enabling possibilities for major leaps



Often we hesitate to make the big leaps largely because of our brains have been hard-wired to make certain kinds of errors...



How to not be effected by Constraints and Obstacles ?



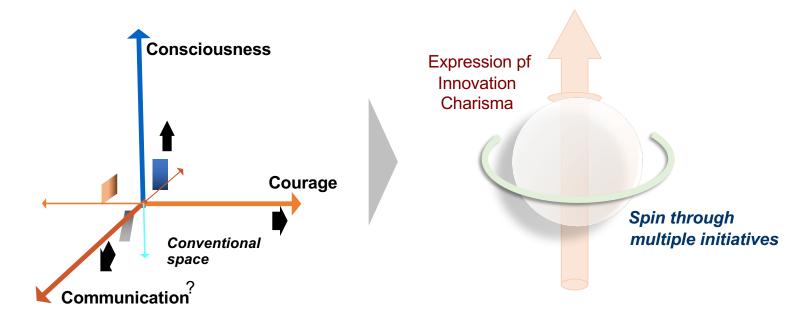
Unleashing you inner power.. through better understanding of outer world...

"How far you will go will be depend upon how far your vision could stretch and how much you sharpen your passion" Partha 5 Ghosh

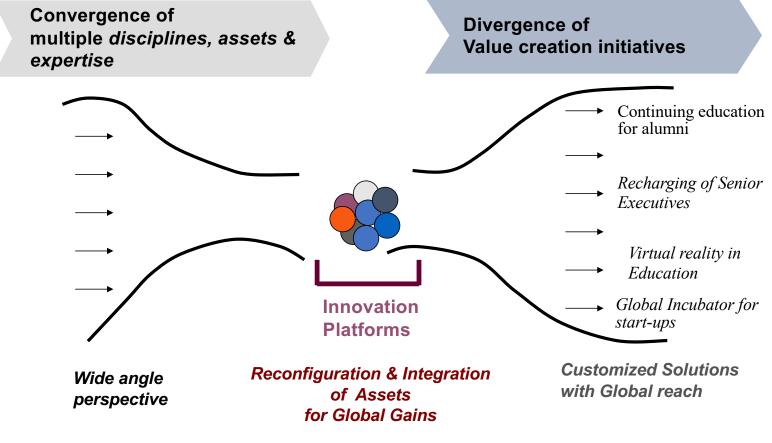


The 3 Vectors and Innovation

Expanding Strategic Space



In the process innovative organizations manage flow of imagination....



Source: Partha S Ghosh Innovation Framework

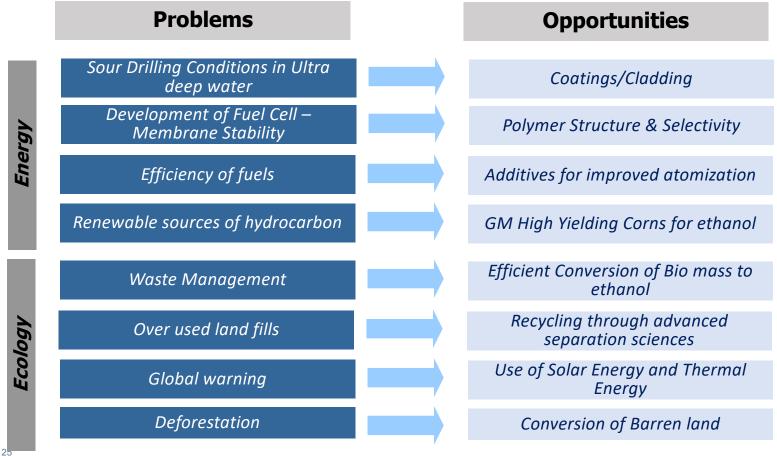
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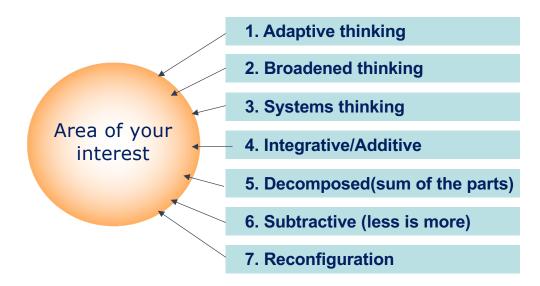
3. Relating with your own environment with positive and resilient mindset

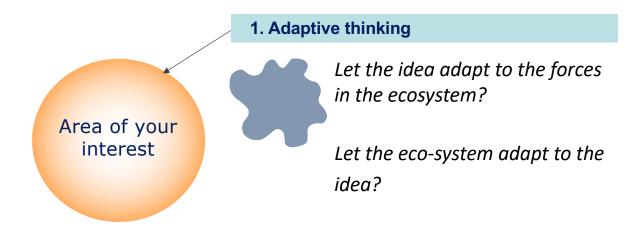
Opportunities in Energy & Ecology (Illustrative)



How to relate with a domain of interest to you







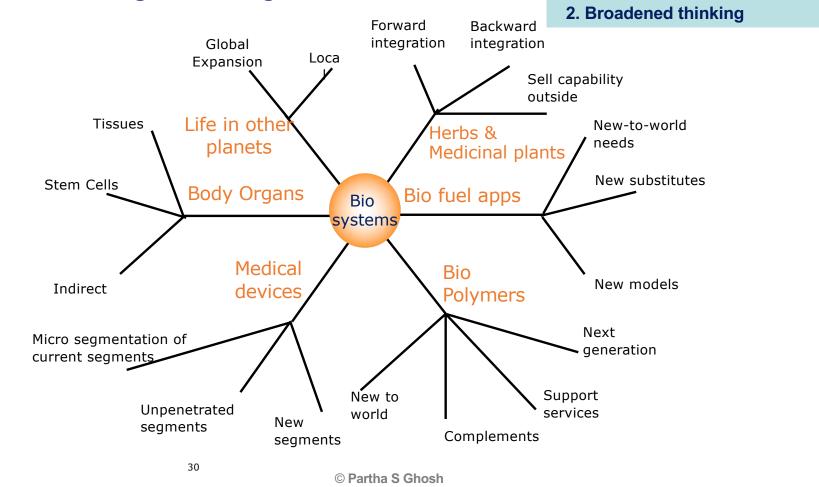


2. Broadened thinking

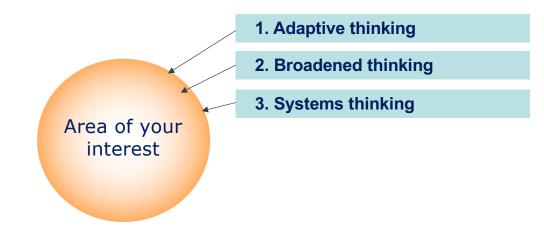
Explore possibilities in the adjacent areas?

In the process enrich the original idea?

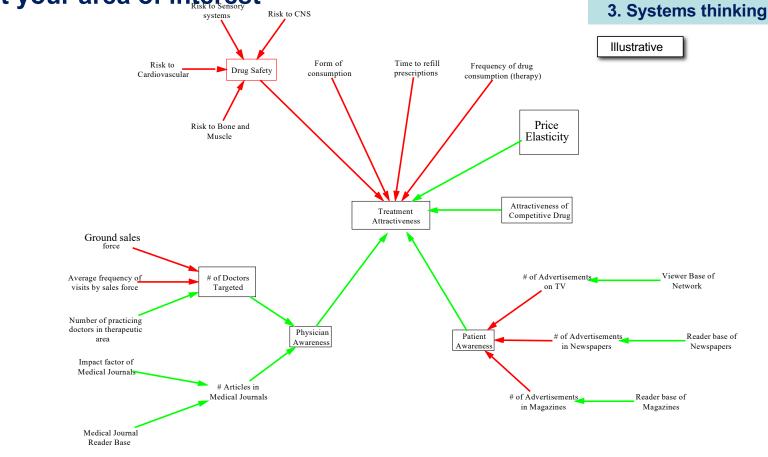
Broadened thinking: Wide angle vision is essential



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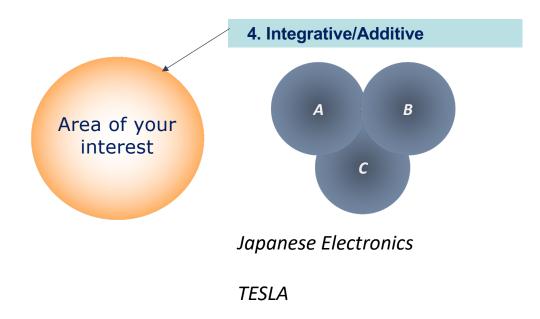






.... Interoperability & Uncommon connections help to open up problem solving space

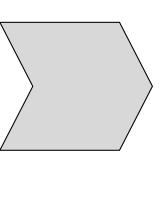




APPLE = Electric type writer + TV Tube

Experimenting to combine an electric typewriter with TV Tube... to make a statement





The first product



The first prototype

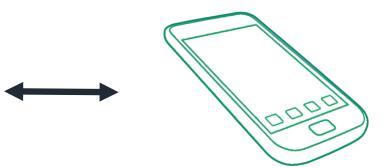
Auto and Electronics Industry are merging

Automotive Industry



Consumer Electronics Industry







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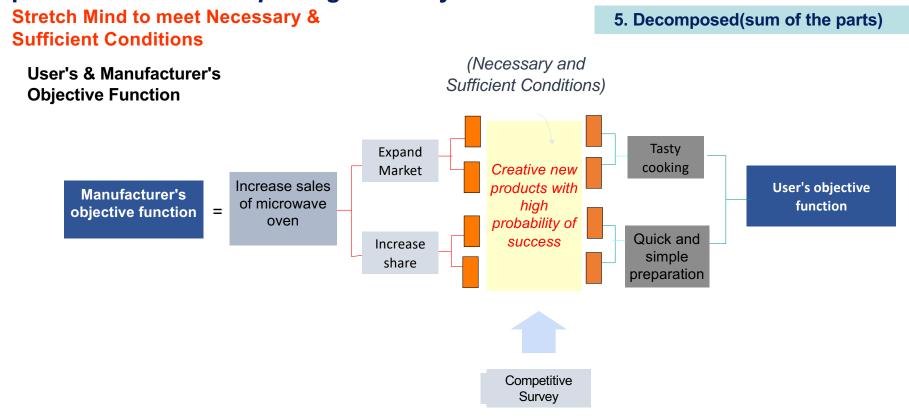


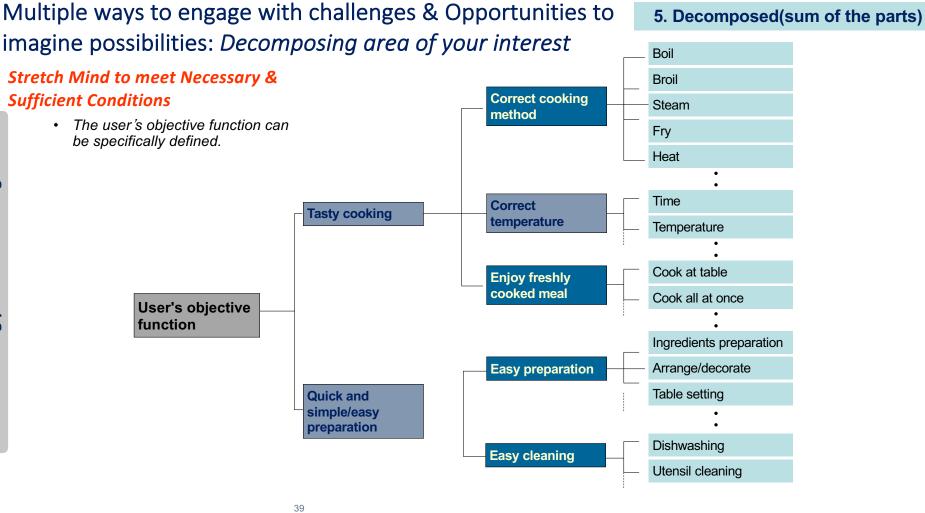
5. Decomposed(sum of the parts)

Break up your area of interest and examine opportunities

Each component could be source of competitive advantage

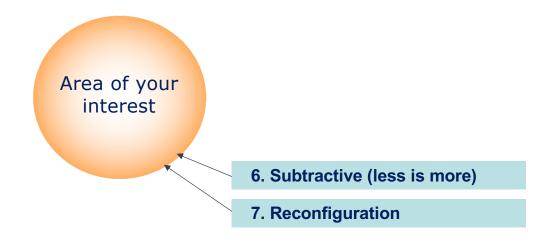
Multiple ways to engage with challenges & Opportunities to imagine possibilities: *Decomposing area of your interest*



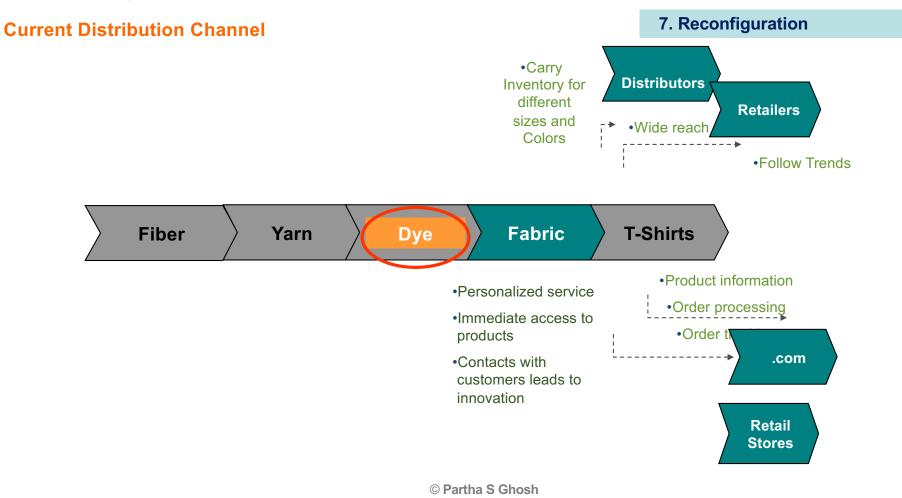


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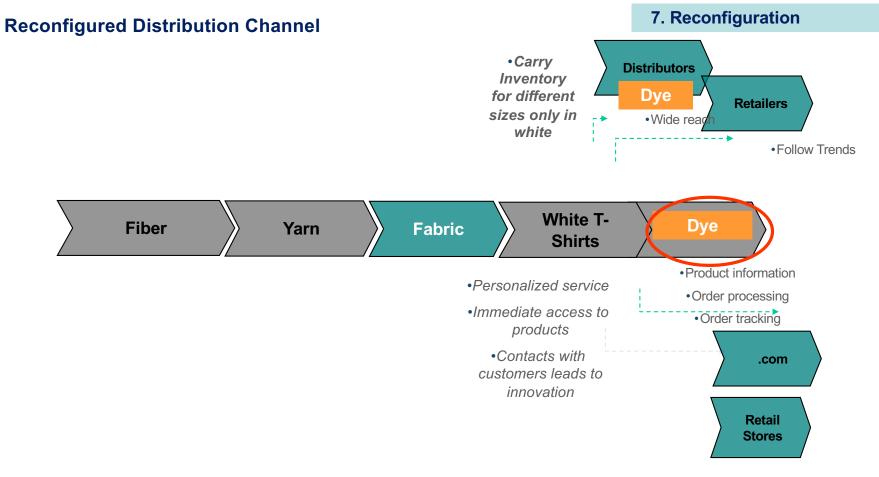
Cultivating your Power to Imagine



Sequencing Game: Typical Distribution Channel for T-Shirts

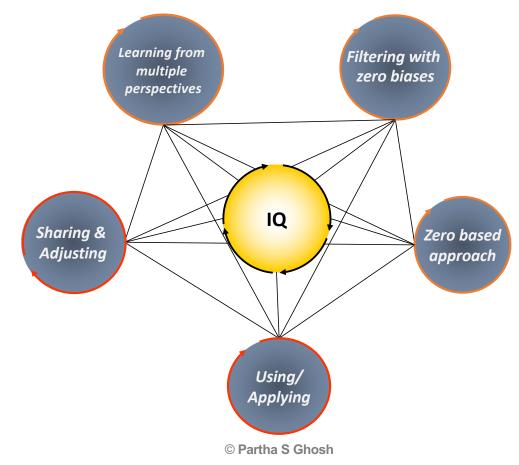


Benetton: Creating More Value out of the Distribution Channel



Dynamics of Social Imagination Quotient (IQ)

Essential requirement: Cultivating Imagination



Homework 3 : Please pick significant problems in your neighborhood; then please choose one and examine how you might solve the problems keeping in mind the basic theory below?

