







HOW TO CONNECT THE DOTS IN INNOVATION MANAGEMENT

COLLABORATE TO STRENGHTHEN CAPACITY AND CAPABILITY TO ACHIEVE SUSTAINABLE COMPETITIVE ADVANTAGE

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WHAT IS INNOVATION?

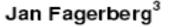
People Innovation Excellence The use of new ideas or current thinking applied in fundamentally different ways that result in significant change and economically successful. – *IBM Research*



INNOVATION IS MORE THAN INVENTION (1 OF 2)

BOX 1-1. Innovation is More than Invention

Innovation is More than Invention



"Invention is the first occurrence of an idea for a new product or process, while innovation is the first attempt to carry it out in practice."

Howard Smith⁴

"Innovation is the process by which new commercial concepts --- products, services, processes – are brought into being, in order to generate business."

Elaine Dundon⁵

"...the profitable implementation of strategic creativity."

John Seely Brown⁶

"By innovation I mean something quite different from invention. To me, innovation means invention implemented and taken to market."

Michael George, James Works and Kimberly Watson-Hemphill⁷

"Historically, the new product/service department mindset has been one of invention (creating new things) rather than innovation (creating new things that add value to the customer and company). Changing this mindset is the key to speeding up innovative creativity and to delivering the best new offerings to your customers."

Source:

Innovation Frameworks Survey and Synthesis of Current Innovation Approaches Leading Edge Forum Technology Grant. Sponsored by the CSC Catalystm Program and the Leading Edge Forum. Pascal Gambardella. April 2, 2006

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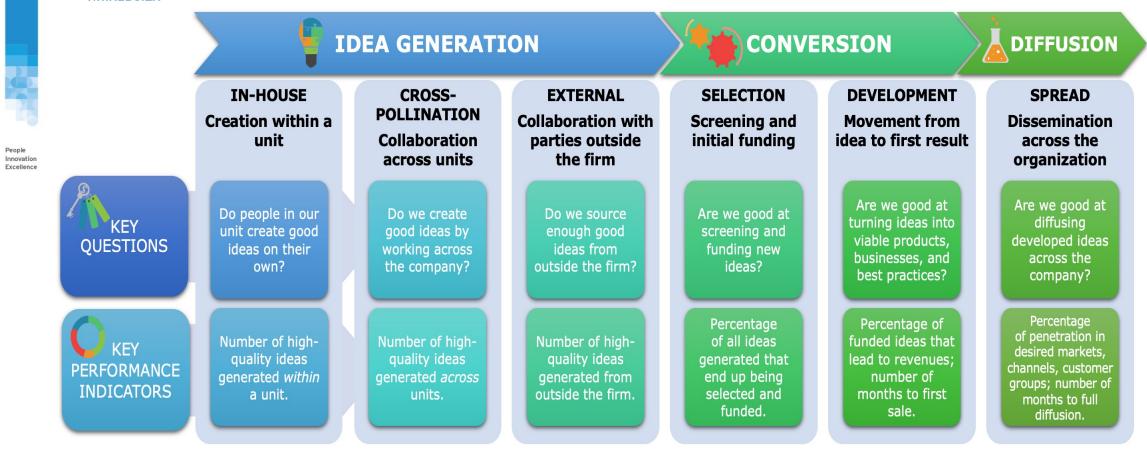
INNOVATION IS MORE THAN INVENTION (2 OF 2)

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Innovation isn't the same as invention. Innovation is a societal, not a technological, phenomenon, one that arises from the intersection of invention and insight." Sam Palmisano, Chairman & CEO, IBM



INNOVATION VALUE CHAIN: AN INTEGRATED FLOW



Hansen dan Birkinshaw (2007),), "The Innovation Value Chain", HBR

Pada kenyataannya, tantangan inovasi berbeda dari institusi ke institusi lainnya. Tantangan inovasi yang berbeda membutuhkan solusi yang berbeda pula. Perlu kemampuan yang seimbang dalam idea generation, conversion, dan diffusion.



HOW TO CONNECT THE DOTS

Connect the dot exercise.

Take a blank piece of a paper write down the picture as follow



HOW TO CONNECT THE DOTS

You need a big idea.

People and teams who generate big ideas usually have more and different dots.

Breakthrough ideas require teams to connect the dots to come up with a big idea.

Breakthrough ideas require teams to connect, disconnect and reconnect the dots differently again and again to get breakthroughs.

Great ideas require

- many and different dots
- resilience to connect an reconnect them in new and different ways



FOUR BASIC INNOVATION FUNDAMENTALS TO THINK AND ACT DIFFREENTLY

The are four basic innovation fundamentals to think and act differently

- 1. Individual/Groups put disparate information together
- 2. A structured approach for creative problem solving
- 3. Different thinking styles at each step
- 4. Cross functional teams and networks to get different perspectives



CONNECTING THE DOTS IN IDEA GENERATION





Individual IDEA FRAGMENT Support and Buy-In CONCEPT DEVELOPMENT Project Team ROBUST CONCEPT

Most Ideas are Idea Fragments and needs input from multiple people to make Idea Fragments into Robust Concepts

https://hopeandgrowth.pro/welcome/30002859-metallic-human-head-with-one-single-puzzle-piece-illustration/

https://www.bluebeyondconsulting.com/thought-leadership/the-9-building-blocks-for-a-successful-remote-team/

https://www.pngwing.com/en/free-png-yuujs

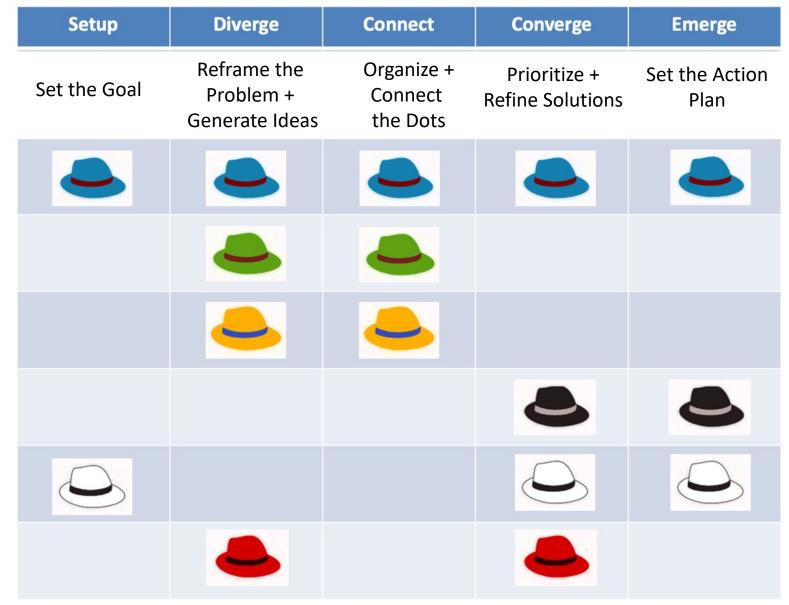


Edward de Bono's Six Thinking Hats Model for Critical Thinking and Problem Solving

w	HITE HAT	Objectivity Fact-finding	Wear the white hat to focus objectively on the available facts and figures.
RE	DHAT	 Passion Intuition Emotions 	Wear the red hat to look at the problem using intuition, gut reaction, and emotion.
BL	ACK HAT	 Caution Pessimism Somberness 	Wear the black hat to be vigilant and consider the negative sides of the event, issue, or problem.
e yr	ELLOW HAT	• Hope • Optimism	Wear the yellow hat to think positively. Consider all the benefits of the circumstances.
G	REEN HAT	• Creativity • Inventiveness	Wear the green hat to get creative and invent new approaches.
BL	UE HAT	Direction Synthesis Organization	Wear the blue hat to perform meta thinking. Scrutinize and direct discussion. Synthesize all viewpoints.
http://www.rightattitudes.com/			Reference: Edward de Bono's Six Thinking Hats

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DIFFERENT THINKING STYLE AT EACH STEP OF A STRUCTERED BINUS APPROACH FOR CREATIVE PROBLEM SOLVING

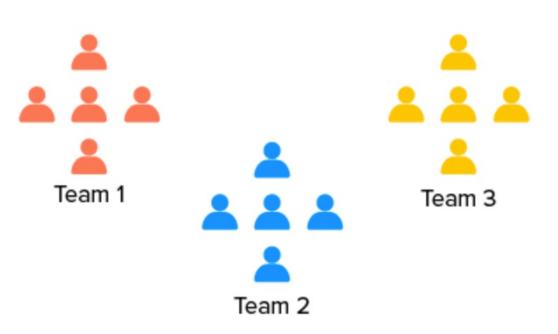




CROSS-FUNCTIONAL TEAMS AND NETWORKS TO GET DIFFERENT PERSPECTIVE

Functional

Common functional expertise



Cross-Functional

Representatives from the various functions





LET'S FIND YOUR TEAM THINKING PROFILE

- 1. Identify your 2 main thinking hats
- 2. Write them down and give your reasoning why
- 3. Analyze the colors with the rest of the class



CREATIVE PROBLEM SOLVING WITH BRAINSTORMING (1 of 4)

Classical Brainstorming

A form of brainstorming was practiced in Asia over 3,000 years ago; however, in modern times its popularization has been attributed to Alex Osborn in the 1940s and 1950s (Rickards, 1988).

Most brainstorming techniques fall into two categories: unstructured and structured.

Unstructured brainstorming is not guided by any agreed-upon set of procedures. The result is often an unproductive session.

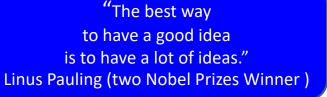
A good example of structured brainstorming is *classical brainstorming*.



CREATIVE PROBLEM SOLVING WITH BRAINSTORMING (2 of 4)

Osborn had four basic rules for brainstorming:

- Criticism is not permitted
 Adverse judgement of ideas must be withheld.
- Free-wheeling is welcome
 The wilder the idea the better





One should not be afraid to say anything that comes into one's mind This complete freedom stimulates more and better ideas.

Quantity is required

The greater the number of ideas, the more likelihood of winners.

 Combinations and improvements should be tried out In addition to contributing ideas of one's own, one should suggest how ideas of others can be improved, or how two or more ideas can be joined into a still better idea.



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CREATIVE PROBLEM SOLVING WITH BRAINSTORMING (3 of 4)

Brainstorming can be used to help find solutions to many different kinds of openended problem: for example, trouble-shooting problems (how to reduce downtime on the production line; how to reduce shoplifting in the store) and problems where a large number of ideas are required (identifying new product concepts; new market/segment concepts; names for products or companies).

Unsuitable problems might include those which require technical or professional expertise beyond the capability of the members of the group or those which have only on.

Good brainstorming is part of a creative cycle of expansion and contraction. The first phase, expansion, relies on unleashing one's creativity. The second, contraction, demands the use of judgment to focus on the best or most relevant ideas.

Proctor, T. (2019). Creative Problem solving for Managers: Developing Skills for Decision Making and Innovation (5th ed). Routledge.



CREATIVE PROBLEM SOLVING WITH BRAINSTORMING (4 of 4)

Brainstorming is a tool to generate ideas, and some ground rules are needed to maintain order.

Following four rules will maximize productivity:

- Evaluate later
- Encourage wild ideas
- Go for quantity
- Build on other ideas







THANKS! Knowledge Management & Innovation Directorate