

OPPORTUNITY DRIVEN CREATIVITY

Agenda:

- Conception of ideas
- Systematical generation of ideas
- From idea to business
- Cases

*Nothing in this World is stronger than
an Idea whose Time has come
(Victor Hugo)*

**Victor Hugo tells us, that preconditions define the strength of ideas:
thus, timing is essential – and ideas are the children of their time**

*Example: industrial revolution: everything is subject to mass
production – including sewing – however, the thread messes up
and early sewing machines are unreliable –*

*-- until 1854: Singer files a patent on the needle with the hole in
the pointed end. He overcomes a major technical obstacle to
mechanical sewing, and conquers the market for sewing machines
for several generations.*

Ideas Emerge as a Logic Consequence of Needs

This axiom explains why good ideas seem to pop up simultaneously – when we are ready for them

Example: The telegraph had been around for some years, when Graham Bell submitted his patent application on the telephone, February 14, 1876 *same day but a little later than Elisha Gray.*

Internet related inventions such as online auctions, matchmaking, dating, telephone, search engines, news streaming, booking, community services, chat fora etc. etc. pop up in less than a decade – all driven by an enabling telecom and IT infrastructure combined – just like the telephone followed as a logic consequence of the telegraph.

It's the Early Bird that catches the Worm

Ideas appear as a logic consequence of need =>

The winner is the inventor and entrepreneur combined, who is capable of perceiving needs and convert them into solutions, and bring them to the market via a competitive business

This statement emphasizes that you do not capture ideas unless you know what to look for – and are looking => "The burning eye for opportunity"

Picking on Opportunity = Identifying pain that can lead to commercially viable products and services, brought to the market by a qualified business

So the equation is:

1. Look for pain
2. Generate a portfolio of pain-killers
3. Set up an appropriate business model
4. Act!

Generating value-creating products/services that build on real pain is "OPPORTUNITY-DRIVEN CREATIVITY"

Elitist View on Creativity:

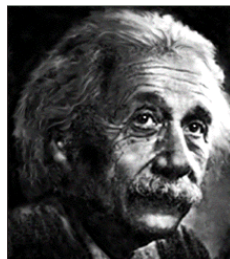
- A rare talent
- Unable to be taught
- Irrelevant to most employees
- An individual process

Developmental View on Creativity:

- Available to all - within the scope of all jobs
- Released through training and development of personal potential
- Encouraged or discouraged within groups according to their climate
- Escapes from personal stuckness

Conceiving Ideas

- Problem is understood =>
- The "Pain" is recognized =>
- Demand is formulated =>
- Solutions occur

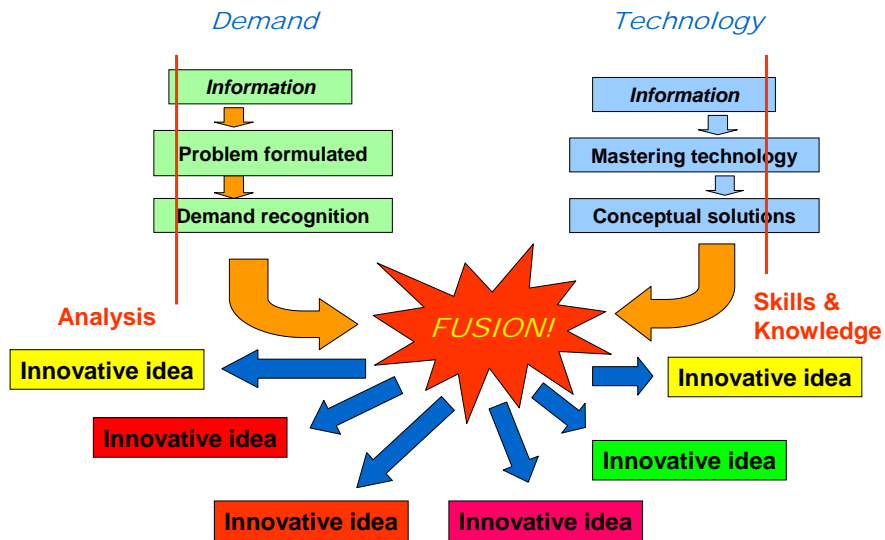


The World will end in One hour. *What will you do?*

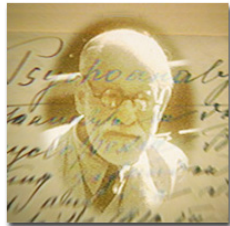
I will spend fifty minutes figuring out what is the problem and ten minutes in solving it

Einstein stresses, that understanding the problem is the hard part!

The Engineering Approach



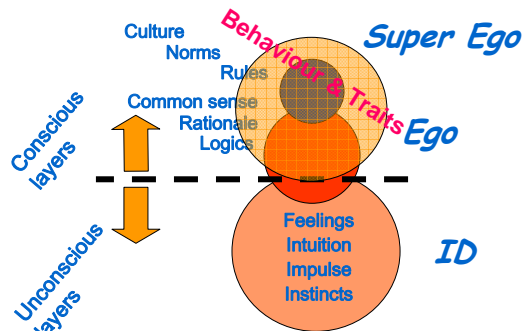
Sigmund Freud 1865 - 1939



Sigmund's Personality Model

Ideas are created when the unconscious layers are provoked by the conscious layers not being able to produce solutions to specific urgent problems. (*Frustration and anxiety prevails*)

The unconscious layers return myriads of ideas which are filtered in the boundary layers between the conscious and the unconscious



Freud's major achievement: the existence of and relationship between the conscious and the subconscious layers of the human brain

Points from Freud's Personality Model:

Theorems

- The subconscious layers can be provoked into generating ideas by being fed with problems
- Unconscious material cannot be made available voluntarily
- Ego (rationale) is the Guard Dog

Creativity as related to our objective requires -

- A correct formulation of the problem
- Stimulation (*frustration and stuckness*)
- An open filter (*a receptive ego = apply common sense, logics and rationale gently*)
- Time

An appropriate filter:

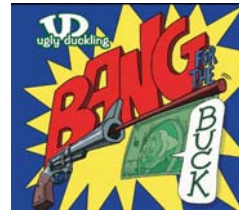
Keep the mesh open: don't kill strange ideas

Suitable criteria for filtering, first run:

- There must be a customer with real pain – and money
- Build upon your personal competencies
- Must be interesting: an idea that you are willing to invest your life in.
- Eccentric, funny and crazy - is OK at this point.
The distance between genius and madman is often short

An appropriate filter:
Second run: tighten the knots

- Many customers
- Wealthy customers
- A lot of pain
- **Bang for the Buck = a real pain-killer**
- **Knowledge** (yours and your team's)



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Preconditions that spur Creativity:

Personal incentives:

- You desperately want to set up a company
- You want your company to become a success
- Hence you need good business ideas

Urges, feelings and ideas that are tied to anxiety, conflict and pain, and you're completely stuck = everything that drives the ID

Preconditions, creating good Business Ideas

- Domain knowledge
- Business acumen
- Training
- Systematic diligence
- Repetition = production of ideas => more and better ideas

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Where do People get Their Ideas?

- **Start a company and see what happens**
The Job-shop
- **Use your eyes and imagination - with a purpose**
Opportunity-driven Inventor
- **Break out – make a spin-out**
Find opportunities in your domain
- **Be disciplined and productive**
One idea per person per day
- **Be a spy**
Build on others' success
- **The top-down approach**
From mega-trends to idea
- **The Forest Gump Approach**
*Be there – be visible – be pro-active
socialize – do good to others -
and leave the rest to LIFE
(Luck is earned, you know)*

From Idea to Business I

Get to know the market

Michael Porter's Market Model is a good entry

- The buyers
- The suppliers
- The competitors
- The threats, opportunities and trends
- **Competition: what is important?**
- **Where are your niches**
- **What strategies will work for you?**
 - The sleeping Lion
 - Riding the Tiger
 - The Trojan Horse
 - Let Mr. BIG lead you by the hand
 - Numskull Jack (Klods Hans)
 - The moving Target

From Idea to Business II

Assessing your business model:

The early indicators of business

- Sparring and consultancy
- Analysis: rough estimates and calculations
- Analysis of market and competitors: use the web
- Experimental work
 - *Technology: a prototype*
 - *Response: invite customers to your lab*
 - *Market: go out there, speak to customers, set up collaborative testing. See how your product really works!*
- Plan how to execute – and do it!
Entrepreneurs are doers - not planners!

Cases 1

Device for sleep apnea diagnosis:

Pain:

Obstructive sleep apnea syndrome (OSAS) is a severe breathing disorder. An estimated 160.000 Danes suffer from OSAS. Presently, ambulant diagnosing of OSAS is not very accurate and is also troublesome for the patient. Hence large additional expenses are added due to re-diagnosis and treatment of healthy patients at hospitals.

Value creation:

We will manufacture and sell an affordable device for ambulant diagnosis of OSAS, able to provide point-of-care parameters of an unprecedented quality to the medical practitioner. This will reduce costs for the hospital by minimizing re-diagnosis and treatment of healthy patients. Furthermore, our method will be more convenient for the patient.

Jury:

Doctors, hospital management and patient associations

Cases 2

Queue Management System

Idea:

A SMS Queue Management System that predicts waiting time and notifies the user using mobile connectivity.

Pain:

The pain seems to be end user's waiting time, but the real pain is with major management queue system companies that fight for market shares in a highly competitive and stagnant market

Value Creation

Introducing our SmsQueue system is expected to increase the sales of ordinary queue management systems by 3%-5% simply because it draws buyers attention and kills the pain for the end users.

Jury:

CEO of management queue system company. Decision maker from authorities. local Authorities, post offices, banks, restaurants, and anywhere needing a queue management system.

Cases 3

Digital audio amplifier

Idea:

A digital audio amplifier for the (semi-)professional audio market with a state of the art electronic design.

Pain:

Today's analog amplifiers for (semi-)professional use are big and heavy and produce a lot of heat. People traveling with their equipment such as DJs and mobile sound crews suffer from back pains and overloaded vehicles and therefore have an interest in keeping the size and the weight at a minimum.

Value creation:

Lighter, smaller and also less heat producing amplifier, which means no fan is needed. All without compromising the sound quality or the power of the amplifier.

Jury:

Primarily DJs and companies renting out audio equipment. Secondly cinemas where the heat production is of interest.

Cases 4

Mobile-free environments

Mobile phones frequently ring at the most awkward moments, embarrassing 3. parties and making owners feel guilty and ashamed. We provide "radio-dead" anechoic environments where mobile phones do not work.

The Pain:

Audience and performers in theaters and cinemas are disturbed by ringing mobiles – and even by people answering or calling from mobiles during a performance. This reduces the experience and creates problems for the organizers, who involuntary deliver a poorer product.

Value proposition

A guaranty to the audience of full value for the money. A safe environment for absent minded people. A quality stage for actors and musicians. A protection against ruthless mobile phone users. An asset that attracts more audience to theatres and cinemas

Jury:

Cinema-, theater- and opera house management. Artists and their audience as well.

Cases 5

Garbage transportation

Removing urban garbage from deposit locations and load it on trucks is a demanding job, which requires physically fit and strong persons. Sickness absence and early retirement is widespread.

Pain:

Garbage men have to pull many garbage trolleys every single working day. The garbage trolleys easily weigh about 100 kg, and the access roads are bumpy.

Value creation:

A smart hand truck with an electrical motor that helps garbage men to pull heavy loads will create a healthier working environment and thus reduce sick absence and early retirement

Jury:

Garbage collection companies fx: R98 and local companies.
Industrial truck suppliers fx, Jungheinrich..

Cases 6

Stock market consultancy service

This start-up is working with software development of stock analysis.

Pain:

New investors need guidance about which stock portfolio is optimal for them.

Value creation:

Private investors can benefit from increased interest of their investments. They will explore what their true investment profile is. They will via simple graphs learn about the mechanisms in the stock market and how they interact.

Jury: (prioritized from left to right):

Private investors, private investors' associations, investment brookers, banks, auditors and lawyers consulting private investors, companies seeking private investors or planning IPOs.

Cases 7

Obesity combat

We are in the field of web based fitness.

Pain:

Obesity is an increasing problem in society, and people can't find the time to go to the gym.

Value creation:

The company offers a membership website with professional and capturing training exercises and nutritional advice, aimed at weight loss.

Jury:

Obesive people and their organisations and families, medical advisors, doctors and politicians within public healthcare. professionals within fitness and nutrition.,

Cases 8

Navigating the CU-SCIENCE offerings

We are in the field of matchmaking.

Pain:

It is a detective-like task, for students at the faculty of science to discover the options that they have available within bachelor's and master's thesis, company internships or projects.

Value:

Our simple web portal will allow students to easily find a project of interest, and to earlier make a decision of where and what they wish to work with. For employers and scientists, the web portal will give them a better chance of finding a qualified candidate, and of course exposure.

Jury:

Students, scientists and employers

Cases 9

A Venture Cup winner:

INVAC is working on vaccines enhancing technologies applicable to all cancers and infectious agents

Pain:

Approximately half the population in the western world die from cancers and infectious agents

Value creation:

INVACs technology has the promise to allow treatments of hitherto intractable infectious agents and tumors. It can also replace many existing technologies due to increased efficiency, reduced production cost and more practical administration.

Jury:

The clinical scientific community. Health authorities and health insurance companies. Big pharma who would license the technology

Cases 10

Smart bicycle cargo concept

Denmark is the land of bicycles and foul weather. A high proportion of bicycle riders wear helmets regularly.

Pain

Unfavorable Danish weather conditions easily spoil cargo transported on a bicycle. Further, a bicycle helmet is inconvenient to carry and store in between trips.

Value proposition

A bicycle basket that protects cargo in foul weather in a locked compartment that allows the user to safely store items between trips. One such item is the bicycle helmet.

Jury

Direct customers: retailers like bicycle shops and supermarket chains

Indirect customers: end users, in our case Danish cyclists, both male and female via their bicycle organization(s).