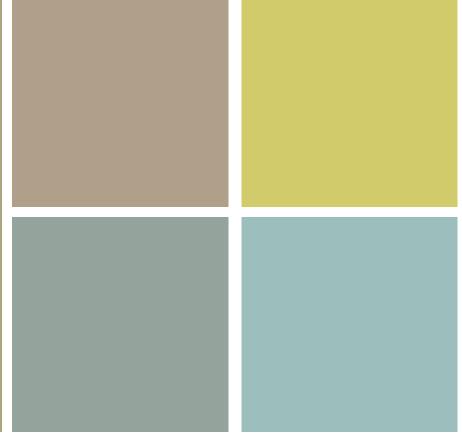
STRATEGIC **INNOVATION:** FROM **INSPIRATION TO** IMPACT Noorihsan Mohamad **Graduate School of Management International Islamic University** Malaysia



1ST. LEADERSHIP PROGRAM: GLOBAL BUSINESS LEADERSHIP DEVELOPMENT FOR THE ASIAN MARKETS 17 JUNE

2015

^FInnovation Matters Everybody's talking about it



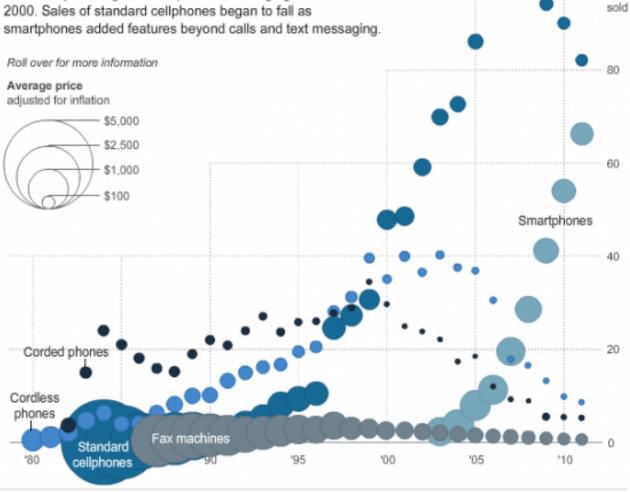
"Innovation is the buzzword in this decade"

Robert Nardelli (Former CEO of GE Power Systems, Chrysler, Home Depot) Bloomberg Business interview - Jan. 8, 2015 "Innovate or evaporate!"

+ Innovation Matters



The average price of a cellphone was about \$4,000 in 1984 and only a few people could afford one. Sales of home phones fell as cellphones got less expensive, averaging about \$200 in 2000. Sales of standard cellphones began to fall as smartphones added features beyond calls and text messaging.



100

million

SOURCE: Consumer Electronics Association. GRAPHIC: Alicia Parlapiano / The Washington Post - January 10, 2011.





















Samsung

Galaxy S4



Sony Xperia Z Ultra

Motorola 8900X-2

Nokia 3210 2146

Nokia 6210 T39

Ericsson Alcatel Samsung OT511 E250

Apple

BlackBerry Samsung iPhone Curve 8900 Galaxy S2



Joseph Schumpeter Capitalism, Socialism & Democracy (1942) "Creative destructions"

...many firms fail because they don't see or recognize the need for change...

Innovation Matters Everybody's talking about it

- Creativity selected as most crucial factor for future success in IBM's 2010 Global CEO study.
- More than 1,500 Chief Executive Officers from 60 countries and 33 industries worldwide believe that:
 - Creativity as the number one leadership competency of the successful enterprise of the future. The IBM Global CEO Study



Innovation Matters ... It's a top national priority

Prime Minister Shinzo Abe

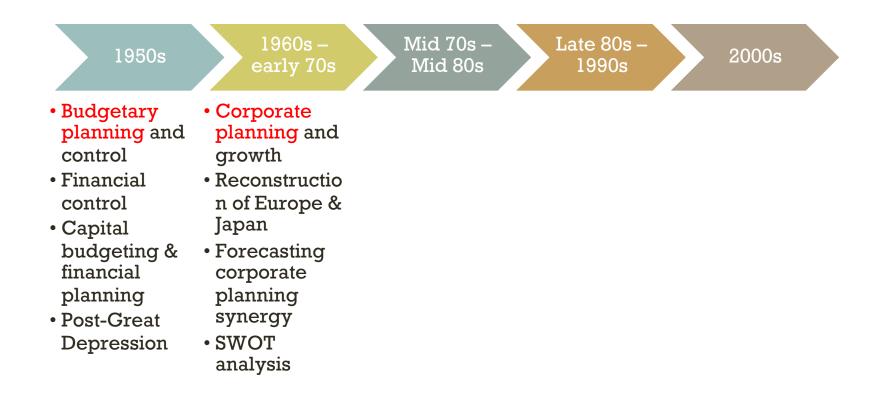
21st International Conference on the Future of Asia - May 21, 2015

"Asia must be innovative. We must use innovation to confront the issues that lie in store for us"

Chinese Premier Li Keqiang - May 17, 2015

"China must rely on innovative development ... the government is vowing to upgrade industrial structures and further promote technological innovation and entrepreneurship"

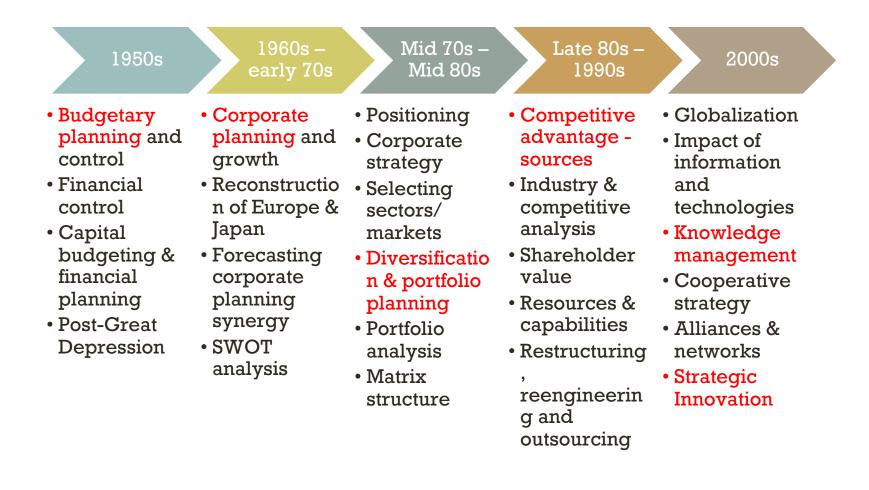
Innovation Matters Evolution of Corporate Strategy



Innovation Matters Evolution of Corporate Strategy



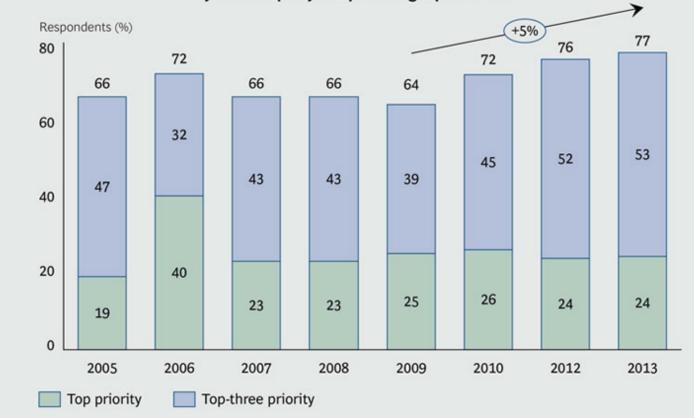
Innovation Matters Evolution of Corporate Strategy



+

EXHIBIT 1 | The Importance of Innovation Continues to Increase

Where do innovation and product development rank among your company's top strategic priorities?



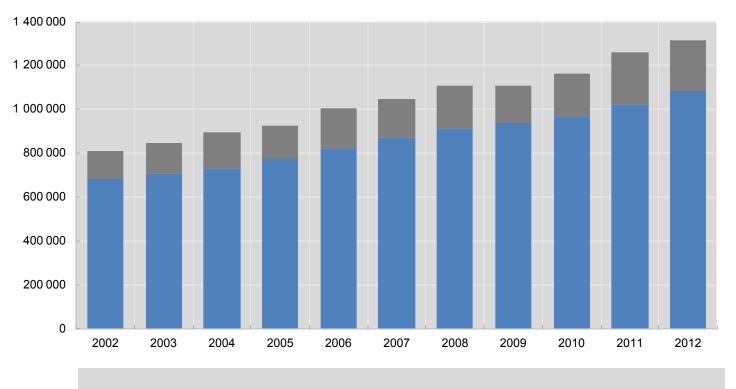
Sources: 2005-2012 BCG/Businessweek Senior Executive Innovation Survey; 2013 BCG Global Innovators Survey; BCG analysis.

Innovation Matters ... and it's a big issue

- US\$ 1500 billion a year spent on R&D through out the world by private and public sectors.
- China recorded a massive 21% per annum growth on gross expenditure on R&D, more than triples the OECD annual GERD growth rate.
- China and Korea are now the main destinations of scientific authors from the United States and experienced a net "brain gain" over 1996-2011.

Share of top players in world R&D spending

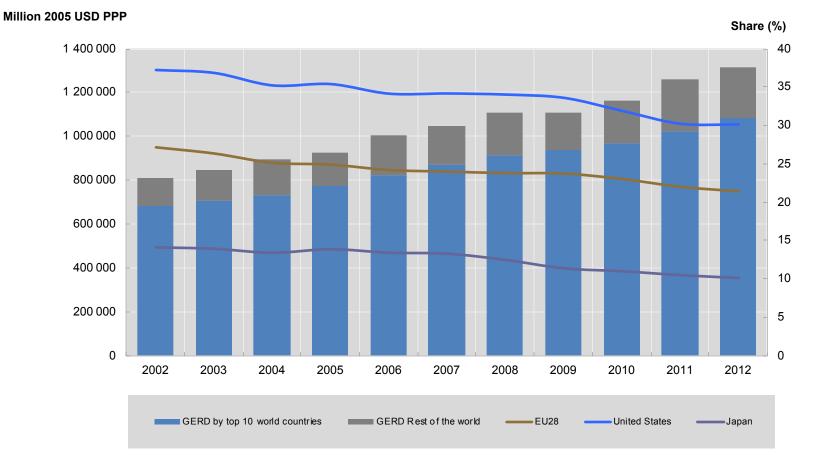
Million 2005 USD PPP



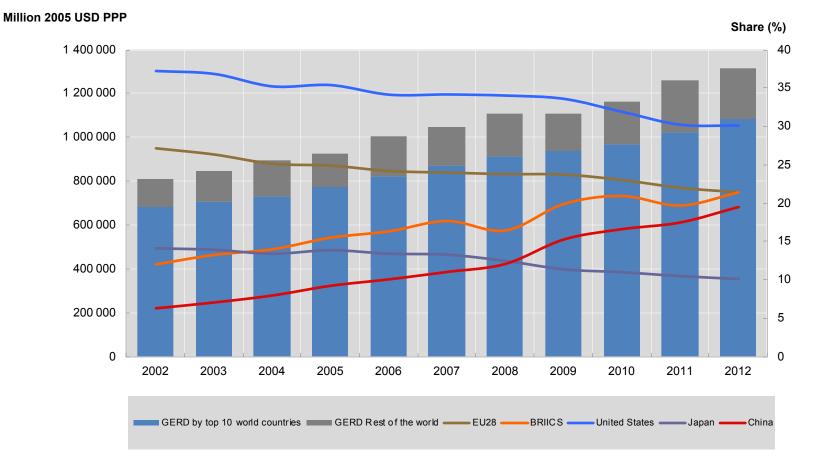
GERD by top 10 world countries

■GERD Rest of the world

Share of top players in world R&D spending



Share of top players in world R&D spending



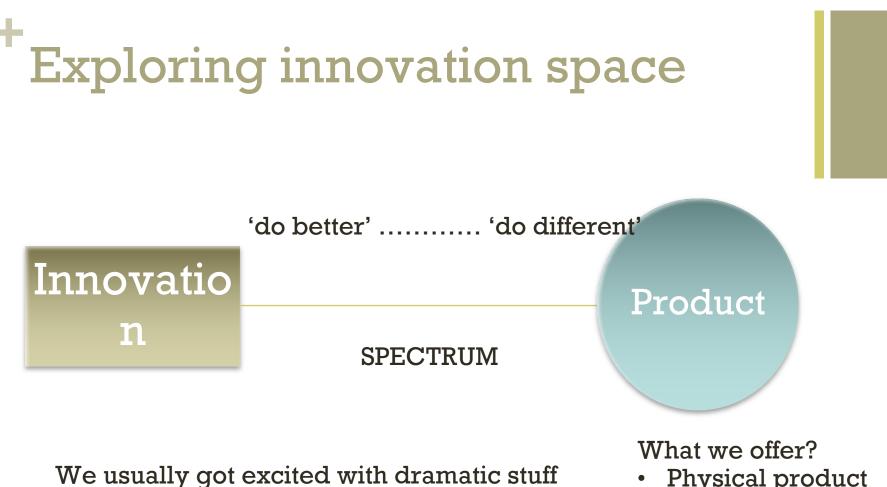
Innovation Matters ... It's a top national priority

- Gross domestic expenditure on R&D (GERD) in 2012 was USD 257 billion in China, USD 397 billion in the United States, USD 282 billion for the EU28 and USD 134 billion in Japan.
- China recorded a massive 21% per annum growth on gross expenditure on R&D, more than triples the OECD annual GERD growth rate.
- China and Korea are now the main destinations of scientific authors from the United States and experienced a net "brain gain" over 1996-2011.



- There are lots of opportunities, but ...
- where do we start?
- what are the dimension?
- What are the space for us to innovate?

A strategy to explore the innovation space is imperative



- Physical product
- Service •

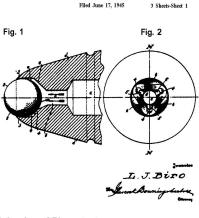
Most innovation is rather boring! It is about doing things a little bit better ... but worth doing.

- The radical change

1st mass-market inexpensive ball point pen







L. J. BIRO

WRITING INSTRUMENT

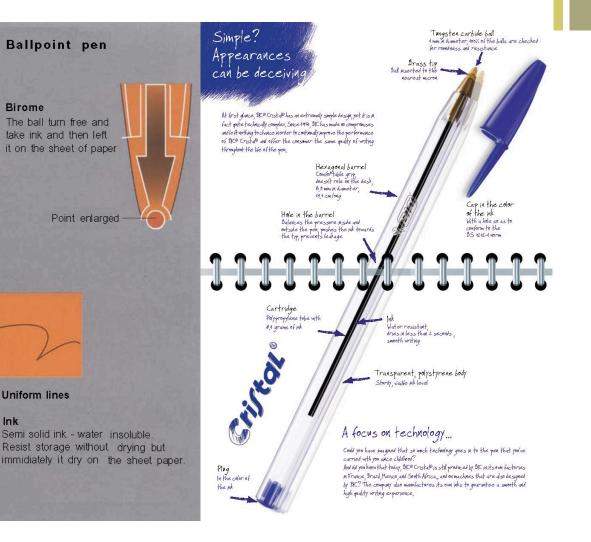
2,390,636

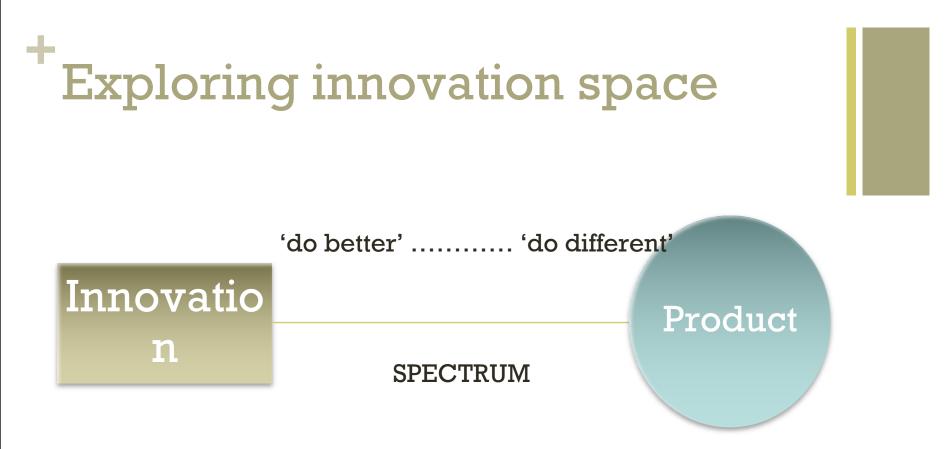
Original drawing of Biro patent Point design, june 1943. Patente original Biro Diseño de la punta, junio 1943

Dec. 11, 1945.

Ladislao José Biro. 1899-1985



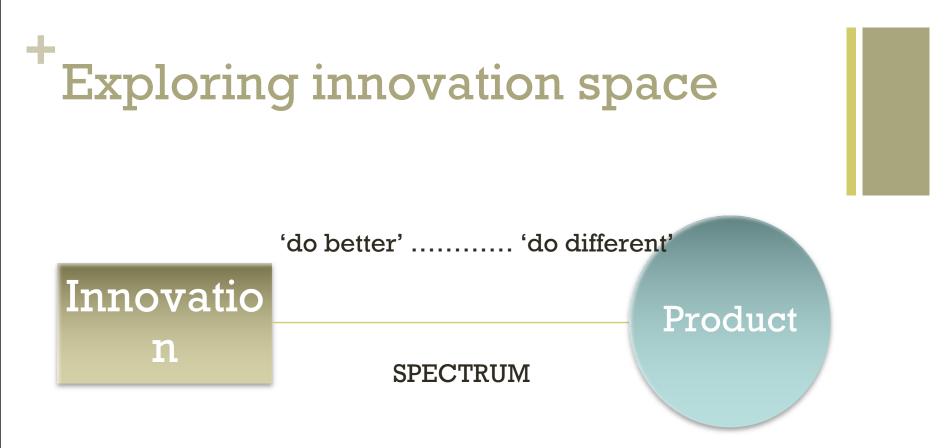




What are these people been doing for 60 years? ...it's just the same. The pen superficially looks the same. But, better writing experience.

Incremental Innovation

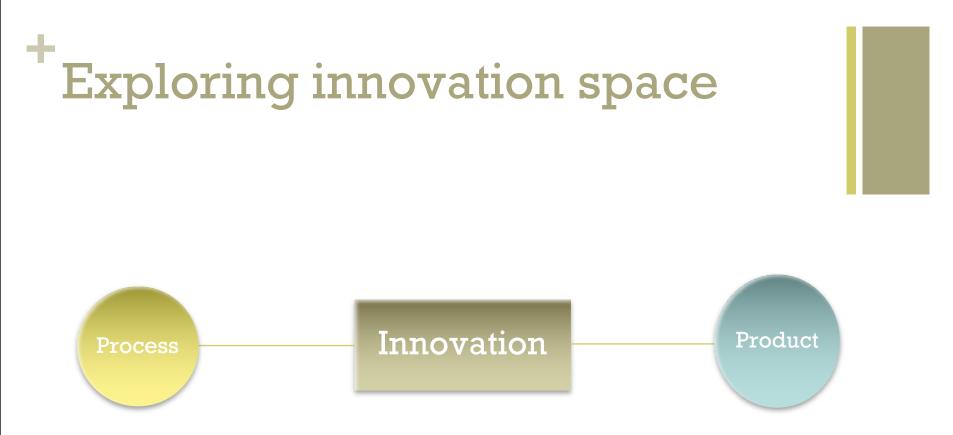
- Between 1980 and 1990, Sony produced a total of 160 different versions of the Walkman.
- Which amounts to a new model on average every 25 days.
- Seems trivial but can be important because they enable a company to keep up with the competition and maintain or lead the market.
- The consistent process of incremental innovation did indeed reinforce Sony's image as a powerful force in the marketplace.



Wonderful piece of engineering that gets better and better.

12 million of ball point pens are being sold everyday.

Continuous incremental innovation is important.

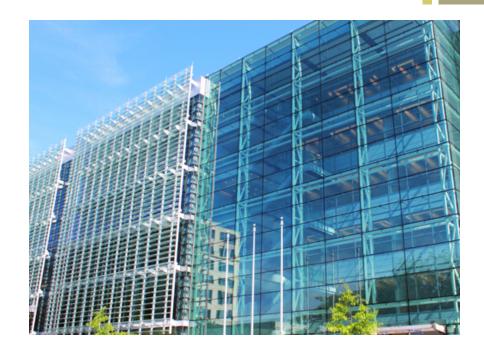


Change the way we create and deliver.

Upstream and downstream processes in delivering what we offer.

The world glass (window)





Two important properties: 1. Flat

2. Smooth

- Medieval/ traditional window
- Need to be grind and polish

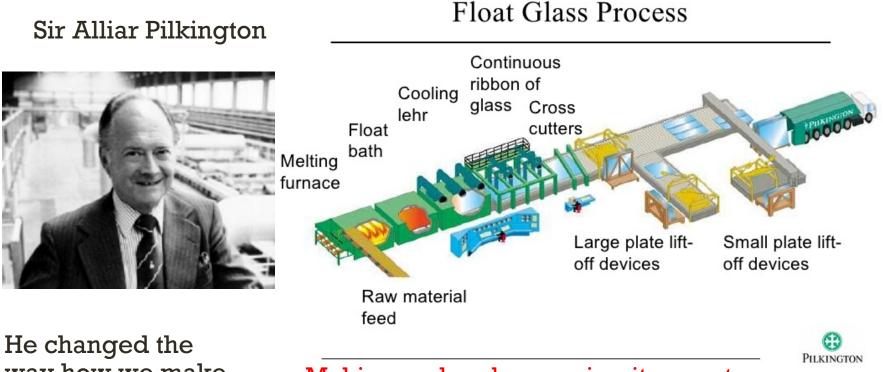




- new grinding techniques
- new polishing powder







way how we make windows.

Making a glass by pouring it on water and make it float.

96% of the world windows are made based on this process.

The Float Glass Process Where the idea comes from?











Sainsbury's





People were looking through the window.

It was just like a tourist attraction.

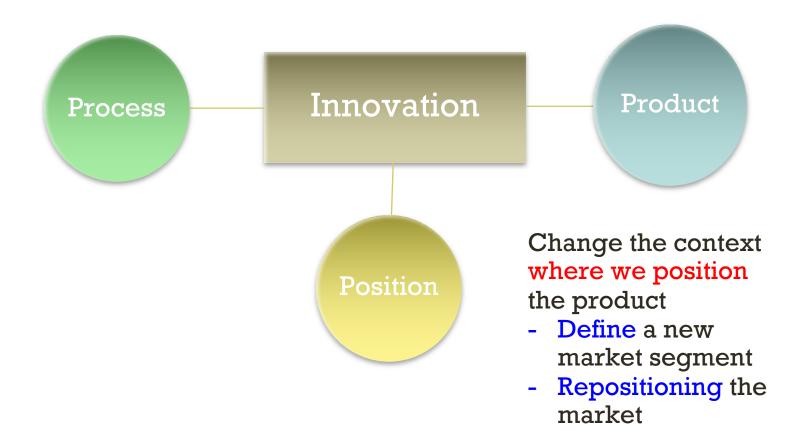


It doesn't just happen!

Have to explain how to do selfservice shopping.

They need to educate the people.

+ Exploring innovation space



+ Position innovation







Pleasure is the path to joy.





BIGGER ISN'T BETTER?

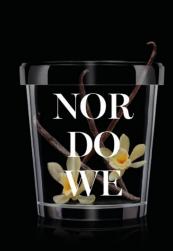


dulce de leche caramel ALL NATURAL ICE CREAM

Introducing the new 14 oz.

LOVE DOESN'T NEED MANY INGREDIENTS

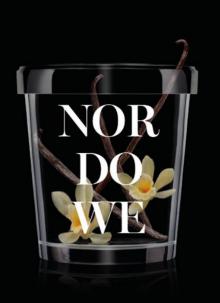




Great vanilla ice cream only needs 5 ingredients - real milk & cream, eggs, sugar & vanilla. So, that's all we use.







Great vanilla ice cream only needs 5 ingredients - real milk & cream, eggs, sugar & vanilla. So, that's all we use.



NOTHING IS BETTER THAN REAL





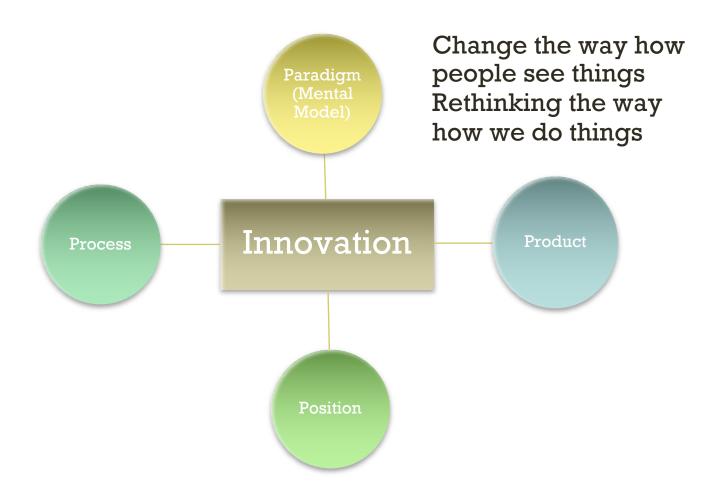








+ Exploring innovation space



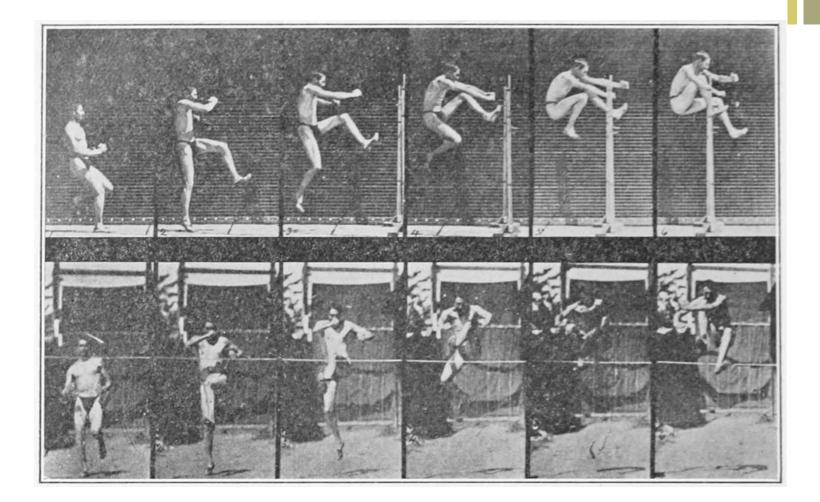
World record holder for High-Jump since 1993

Javier Sotomayor (Cuba)





His record was unbreakable for more than 20 years.

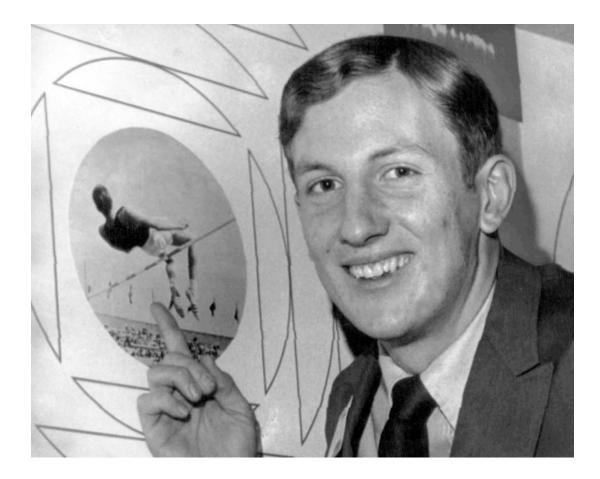




Ray Ewry Olympic Games London, 1908

World Record: 1.98 m

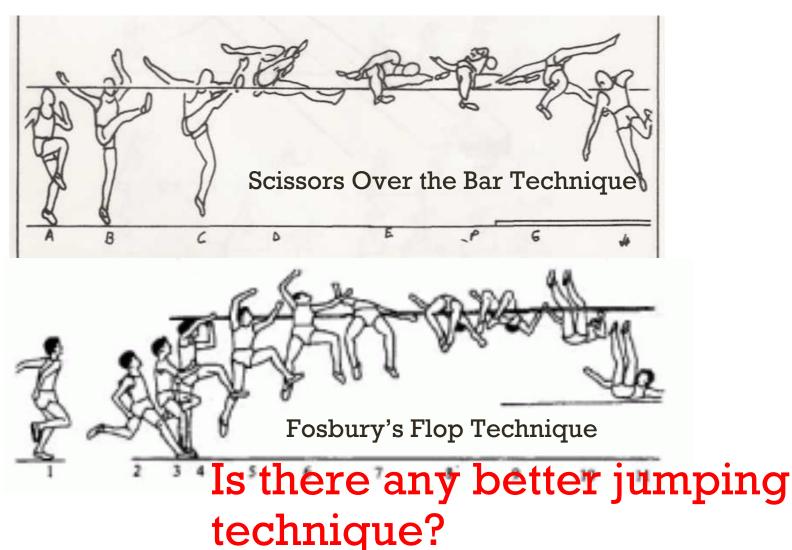
Scissors over the bar technique



Richard Fosbury Olympic Games Mexico, 1968

World Record: 2.24 m

Fosbury's Flop Technique



Now Available On: amazon.com®



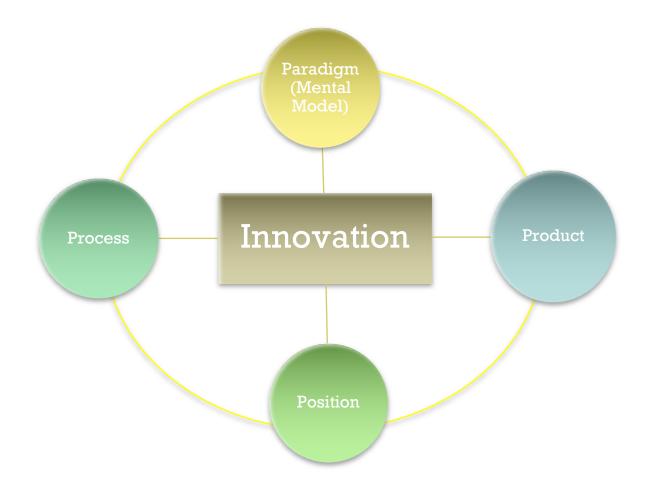
N E T F L I X

Why would you that?

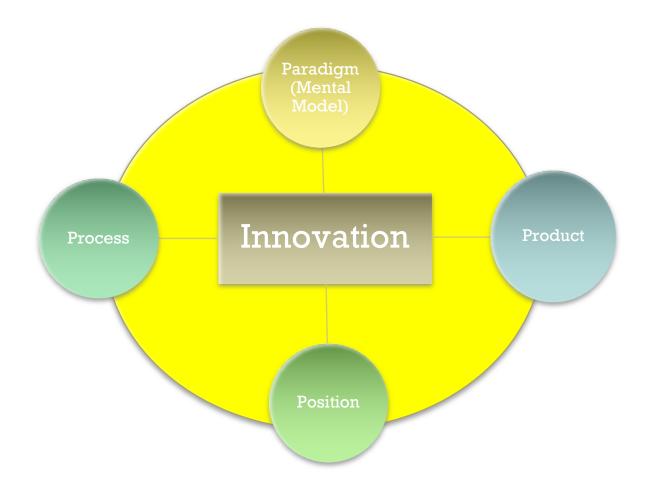
Changing the mental model.

Changing and transforming the business model

+ Exploring innovation space



+ Exploring innovation space



Innovate or evaporate!



BORDERS

Kodak

BlockbusterVideos

- Failed to capture new market growth to Netflix
- Could not generate new cash streams

Borders

- Failed to capatilize on e-commerce via internet
- Competitor advantages (Amazon, iStore, Etc.)

Kodak

- Failed to sustain continuous improvement
- Low budget allocation for innovation activities



Either ... we are waking up and disrupting the world ...

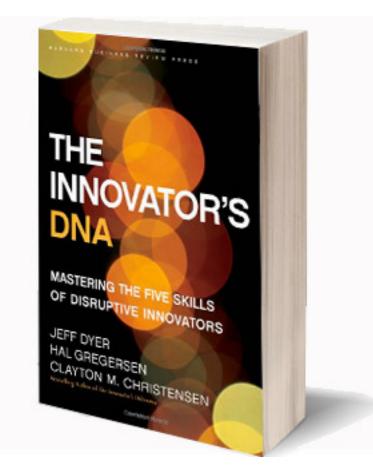
or ... we are being disrupted.

The question is, how can we be the innovators (disruptors)?



+ How do innovators do it?

- How did the existing innovators change the world?
- They think differently
- They act differently
- They ask a lot of questions questions that provoke people to think uncomfortably



How do innovators do it? Curiosity is power ...

- The challenge is asking question that we don't know...we don't know...and start asking them.
- how many things that I'm dead wrong about ...

What's working?

What's not?

Why?

How do innovators do it? Curiosity is power ...

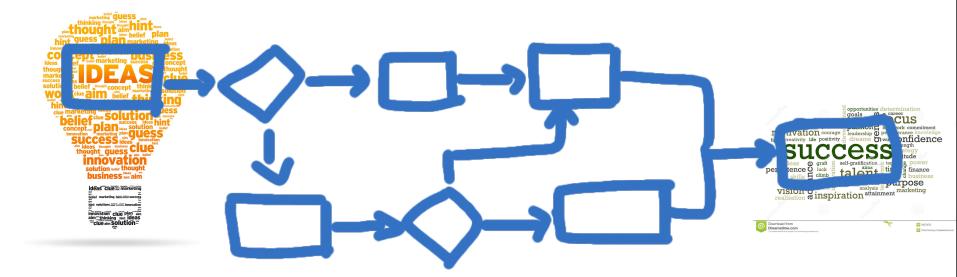
- Peter Drucker The Practice of Management (1954)
 - "The important and difficult job is never to find the right answers, ... it is to find the right questions ..."
- It is the key to unlock the problem.

QUESTIONS?

- Does your company have a question centric culture?
- Does your company develop a question centric leader?

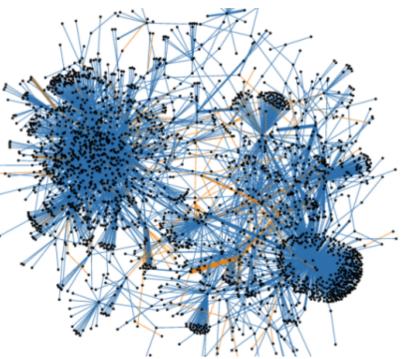
How innovation happens?

- Idea is not just happen like that.
- It requires process to make it happen and to enable ideas to happen.



How Innovation happens?

- Innovation does not happen in a simple way.
- It happens in a way that are very complicated.
- We need to weave those strands together to create value
- Innovation is about connecting the dots...



Knowledge spaghetti

The ballpoint pen Connecting the dots ...

2simple observations \leq

The ball point pen was invented by a journalist who made 2 simple observations; that the ink from a fountain pen took time to dry and could therefore be smudged, and the ink used in newspaper printing dried practically on contact with the paper. He set out to discover a means by which the gelatinous ink could be transferred from a cartridge and onto paper, and eventually the answer became clear to them – a ball bearing. The invention bore his own name: Biro.

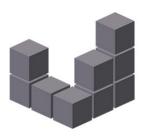
+ The Float Glass Process Connecting the dots ...





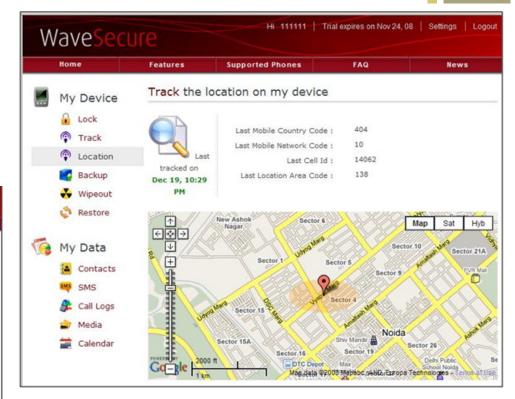


Track my device Connecting the dots ...

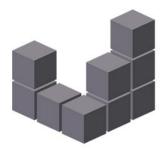


tenCube

| H | ome | Features | Supported Ph | ones | FAQ | Hews | |
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| | Media | Sep 10, 09:52 AM | +6581611905 | Your phone was | switched on with this nu | mber. | |
| | | Sep 10, 09:50 AM | +6581611905 | Your phone was | switched on with this nu | nber. | |
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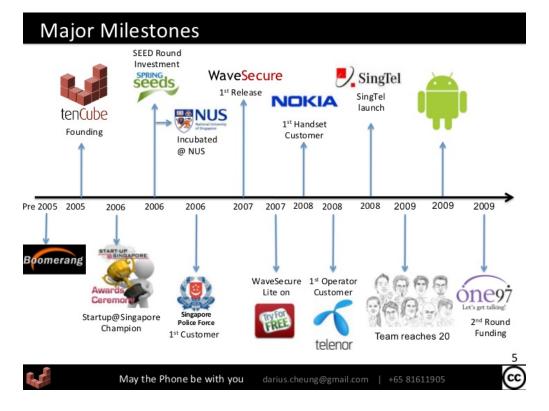


Track my device Connecting the dots ...



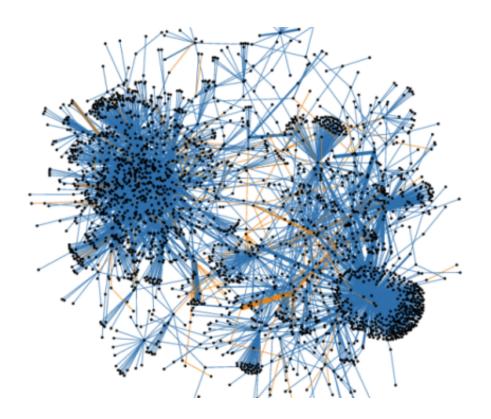
tenCube





+ How Innovation happens?

Knowledge spaghetti



All sorts of strands of knowledge held by all sorts of people

Multi-player game: Open innovation

Complex knowledge flows, not just knowledge creation

How Innovation happens? Open innovations ...

For Solvers

INNOCENTIVE*

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How Innovation happens? Recombinant innovation …





+ How Innovation happens? Users innovation ...



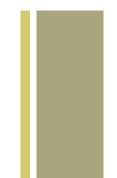
+ The classic traps

1. Resistance to change

- For many people, is a frightening thing, as it disrupt the status quo.
- Innovators use change as fuel for thought and as food for action.

sometimes the things we can't change end up changing us





2. Misconception that "The best ideas always wins."

- The best ideas don't always win, but that doesn't stop people from believing they should.
- Most innovators were **frustrated** by how their ideas, clearly superior in their on minds, struggled for acceptance in the world.
- The notions of best, good, win and lose are opinions, as is the obsession with framing things in **binary terms**.
- Good vs. bad, bad vs. worst, happy vs. sad are all very subjective.



2. "The best ideas always wins."

QWERTY keyboard is neither built efficiency nor ergonomics.

Phillips screw is inferior to the lesser known Robertson screw (gem of industrial design).

HTML and JavaScript are far from the best software development languages, yet they're the most successful in history.

sometimes the things we can't change end up changing us

Innovation distinguishes between a leader and a follower STEVE JOBS APPLE CO-FOUNDER, INVENTOR

share a