

DESIGN THINKING

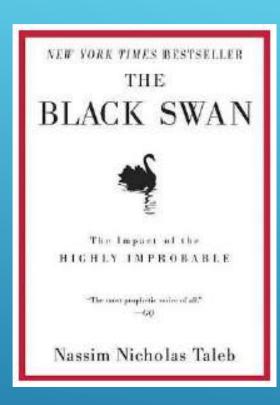
One of Think Different



- To navigate Organization
- To navigate **Business**
- To navigate **Process**

Create Growth



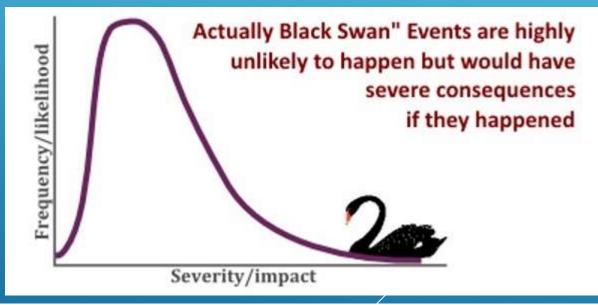


A black Swan event:

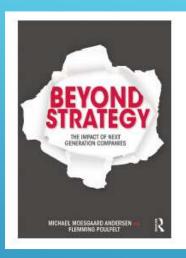
- Is a surprise
- Has a major impact
- Is rationalized by hindsight after the occurrence as if it was expected.

EXAMPLES:

- 9/11, Internet, WWI, etc.
- The "unknown unknowns"



The Black Swan Phenomenon





- Dealing with normative thinking, as there is assumed to be a direct correlation between the rules of the recipe & success.
- Tomorrow's innovation do not show up in market statistics =
 Surprise = Too late for "white swans" to react.

Common Companies	In Search of Excellence	Built to Last
3M	Excellent	Visionary
Boeing	Excellent	Visionary
Bristol-Myers	Non-Excellent	Non-Visionary
Burroughs	Non-Excellent	Non-Visionary
General Electric	Non-Excellent	Visionary
General Motors	Non-Excellent	Non-Visionary
Hewlett-Packard	Excellent	Visionary
IBM	Excellent	Visionary
Johnson & Johnson	Excellent	Visionary
Marriot	Excellent	Visionary
Merck	Excellent	Visionary
Procter & Gamble	Excellent	Visionary
Texas Instruments	Excellent	Non-Visionary
Wal-Mart	Excellent	Visionary
Walt Disney	Excellent	Visionary
Westinghouse	Non-Excellent	Non-Visionary

Out of the Box Best Practices

NEW PARADIGM

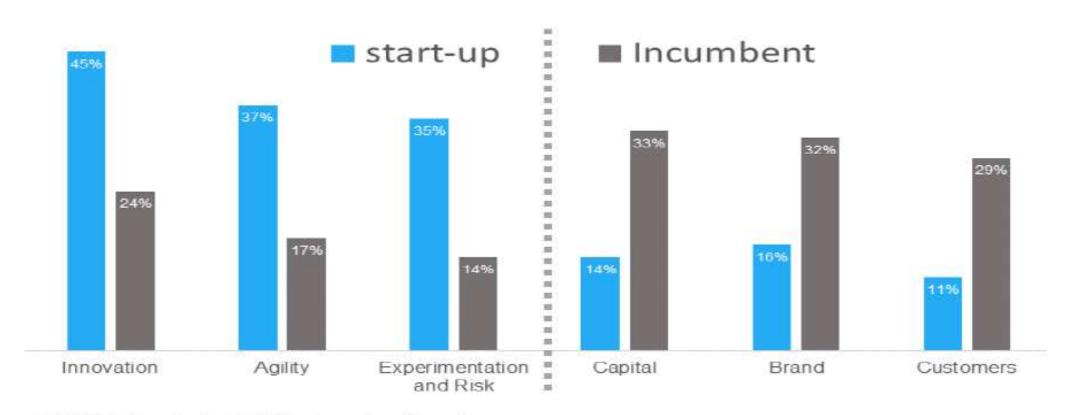
No Box Next Practices

Source: Beyond Strategy - The Impact of Next Generation Companies, Michael Moesgaard Andersen and Flemming Poulfelt.

Visionary vs Excellent

Survey question

What advantage does each type of company have in its ability to capitalize on digital disruption?



Source: IMD Global centre for digital business transformation

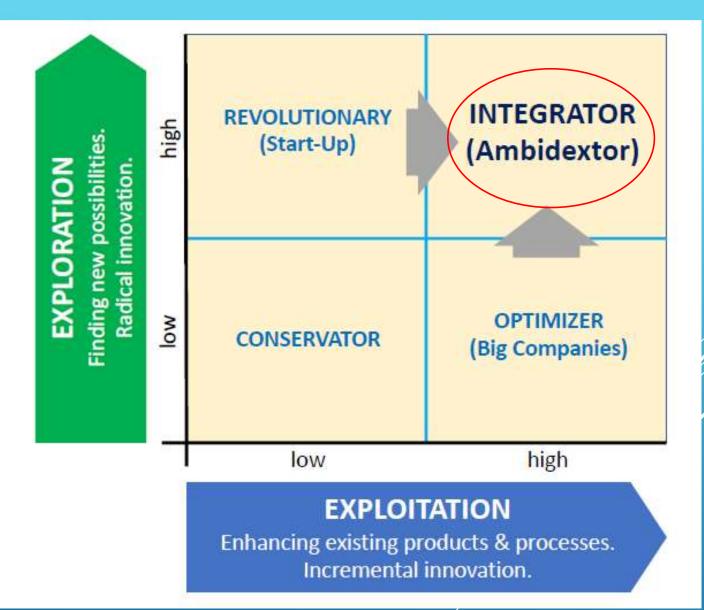


am.bi.dex.trous

/,ambē'dekst(ə)rəs/

adjective

(of a person) able to use the right and left hands equally well.



Ambidextrous





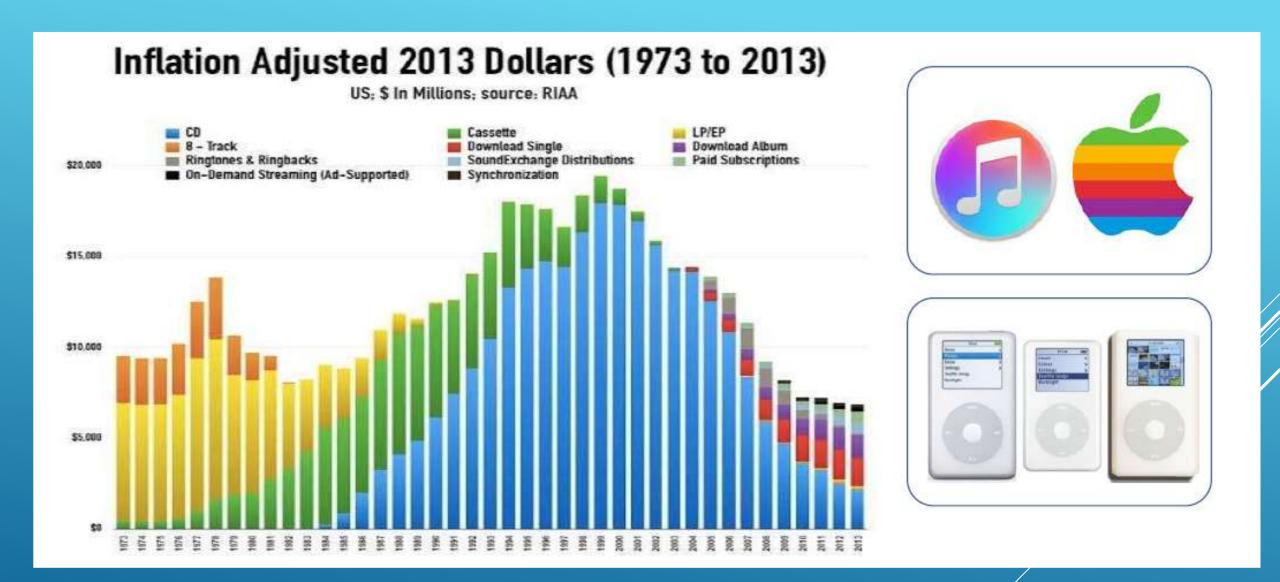
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inventory.

At some point, process improvements only will not sufficient.

Change in the Business Environment



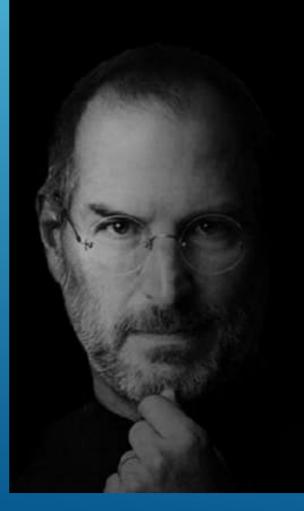
Disruptive Business Ideas



Significant Growth



Emphatic Product & Service



Related to your organization and business, do you really understand what customers want, and what strategies and changes are urgent for your organization to take.

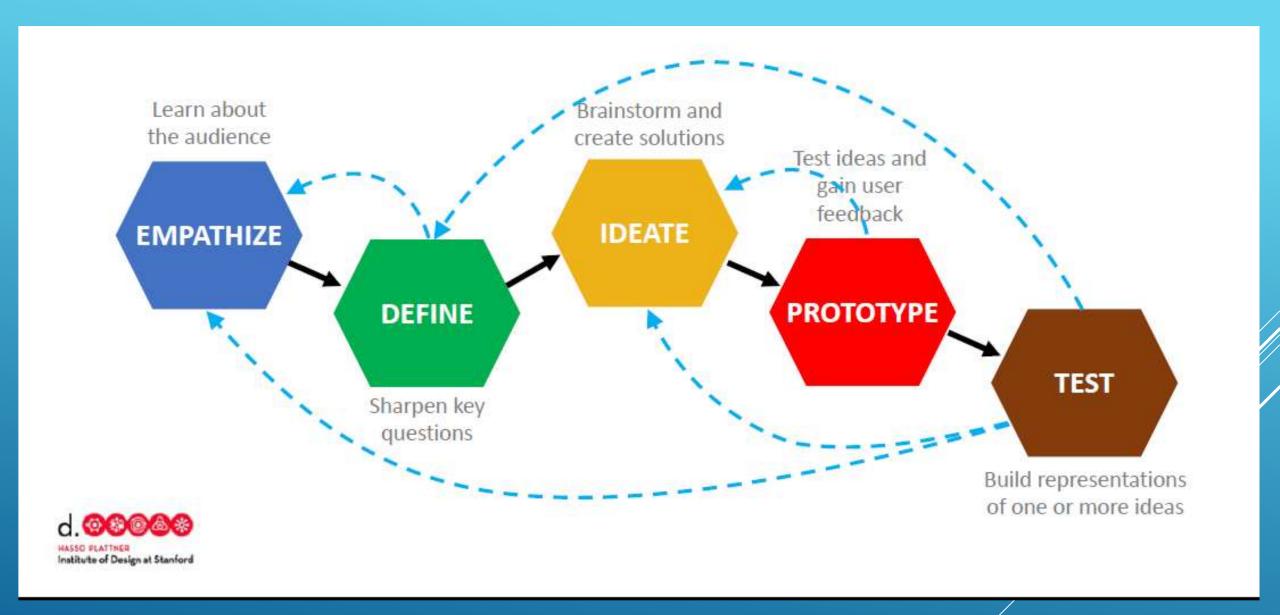
Think different



DEFINITION of Design Thinking

"Analytic and creative process that engages a person in opportunities to experiment, create and prototype models, gather feedback, and redesign"

- Razzouk and Shute 2012



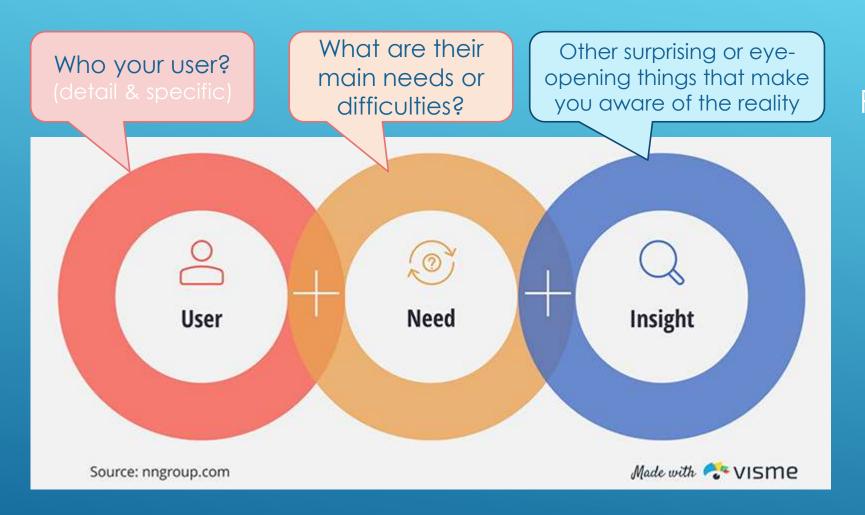
Design Thinking Process



"Empathy is at the heart of design. Without the understanding of what others see, feel, and experience, design is a pointless task"

Emphatize – Feel your users

Framing the Problem within a Point of View.

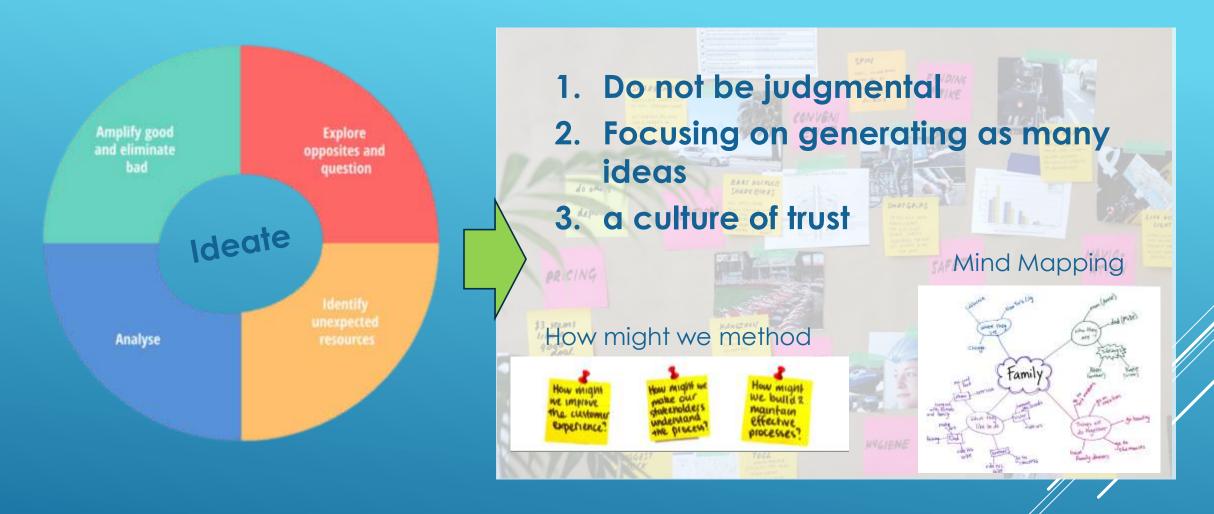


Perspective Statement:

"We met ... "

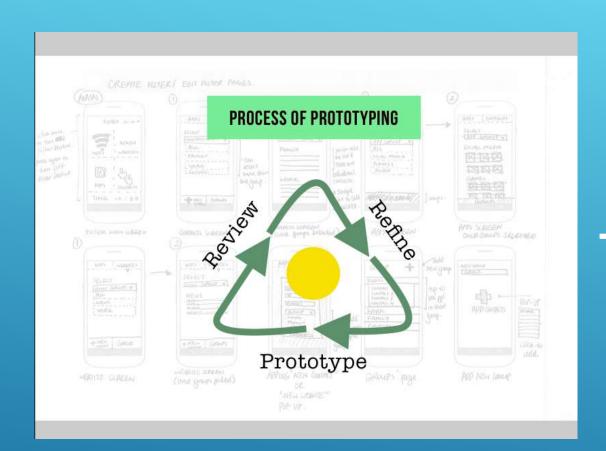
"We were amazed to realize that ... "

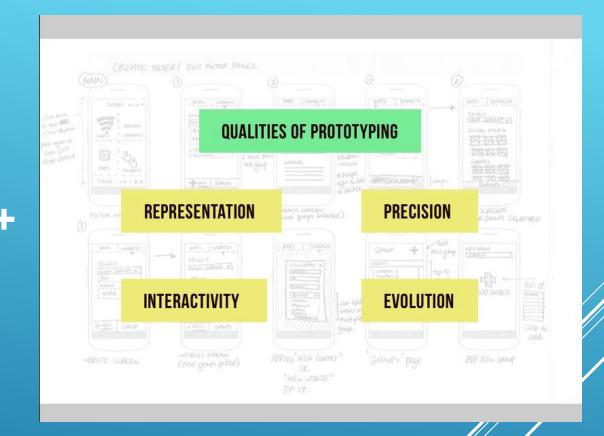
"It would change the world if .



"Deferring judgement reduced social inhibitions in the group — no one would be stigmatized for shouting out a crazy idea."

Ideate - Generate as many ideas you could think of



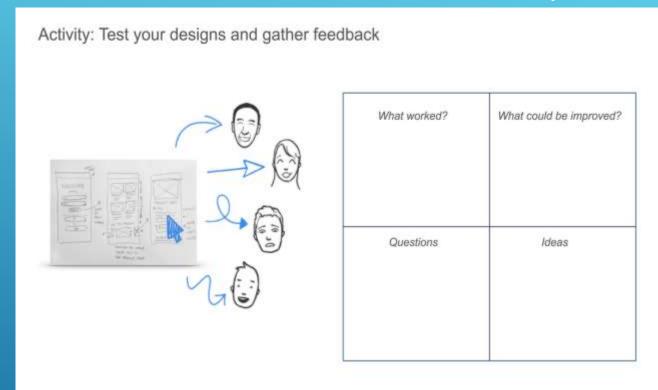


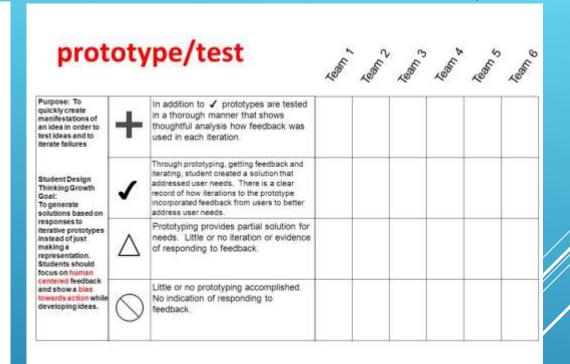
"A good prototype is a prototype that facilitates answering the questions you have."

Prototype - Demonstrate the idea

"Prototype as if you know you're right, but test as if you know you're wrong."

know you're wrong."





Get feedback

Be Beginner's mind

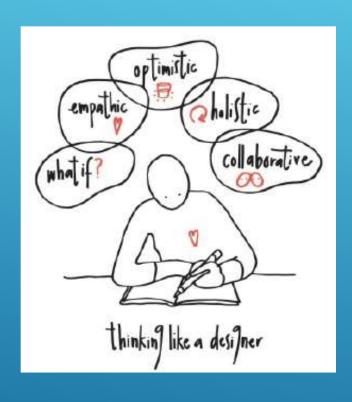
"In the beginner's mind there are many possibilities, in the expert's mind there are few."

Test - Challenge your assumption and learn from it



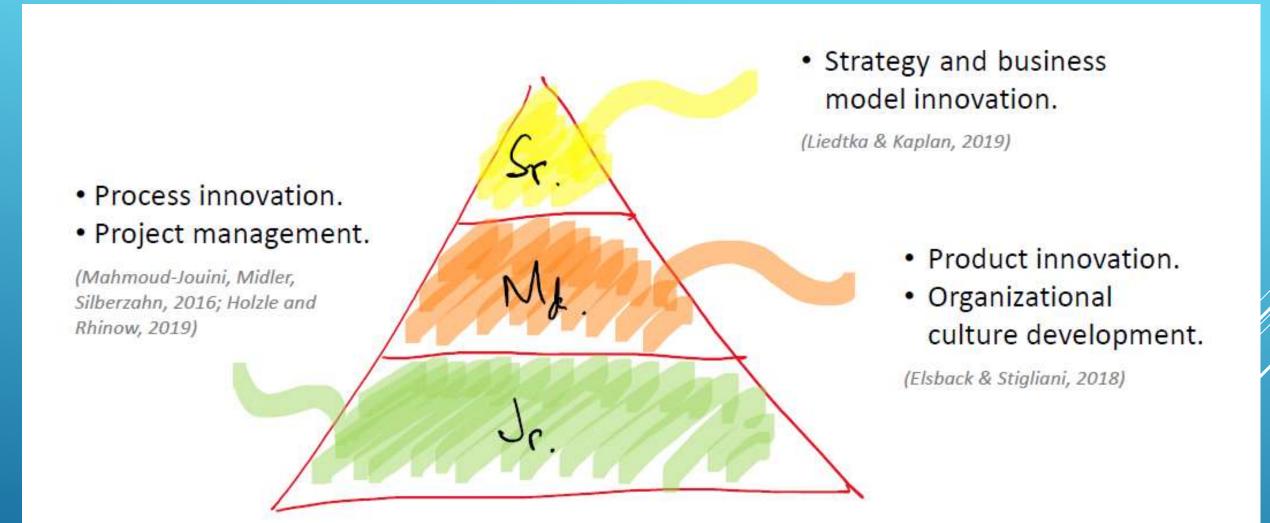




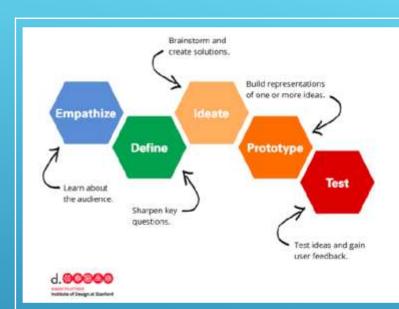


- Many start to realize that design mindset is useful for business.
- Thinking like designers are a good starting point to foster innovation in companies.
- Innovative business are those that are customer/user-centered.
- Many industries are starting to realize that they have to build design capacity, mindset and capability in their organizations.





DT for Different Levels of Management



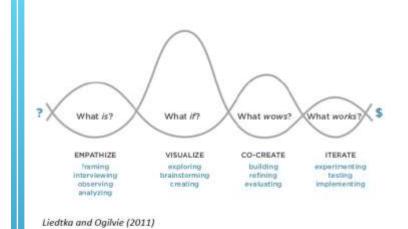
STANFORD UNIV.

Pros

- · Relatively general.
- · Easy to understand.
- Applicable to many purposes (public, private, etc).

Cons

 Students / trainee tend to assume that DT is a linear process.



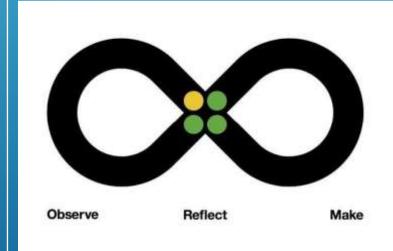
COLUMBIA UNIV.

Pros

· Designed for growth.

Cons

- · Less popular and less catchy.
- May be difficult to follow for first learner / adopter of design thinking.



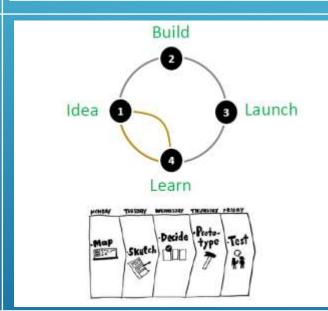
IBM

Pros

- · Team-oriented.
- Easily-used in large-scale processes (with mass participants).

Cons

Need alignment across teams.



GOOGLE VENTURE

Pros

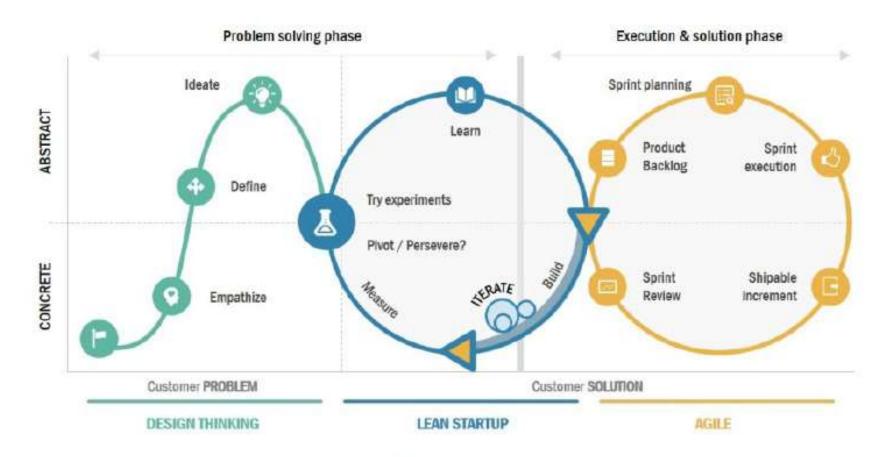
- Fast and rapid confined in a certain time frame (5 days).
- Combination between individual and team works.

Cons

· Need momentum.

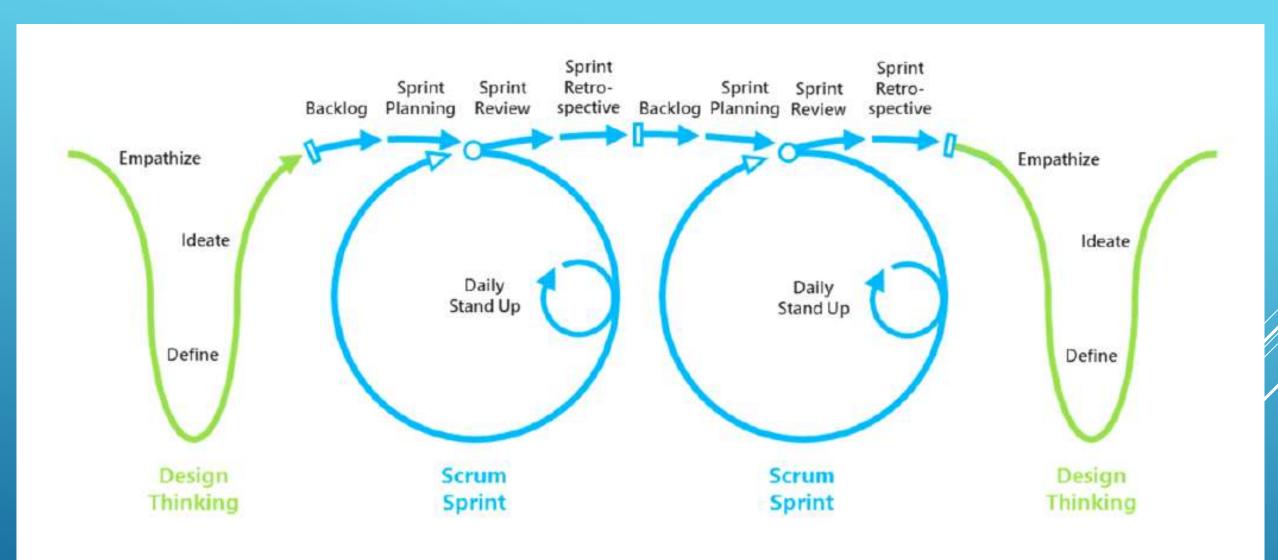
Some DT Approaches

Design Thinking + Lean Startup + Agile Diagram



https://www.mendix.com/blog/design-thinking-vs-agile-combine-problem-finding-problem-solving-better-outcomes/

Collaboration DT + Lean Startup + Agile Diagram



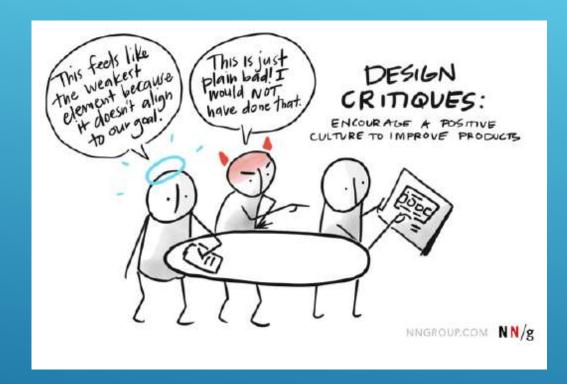
https://medium.com/@takeshi.yoshida/design-thinking-plus-scrum-d671a1a8e67a

Collaboration DT + Scrum



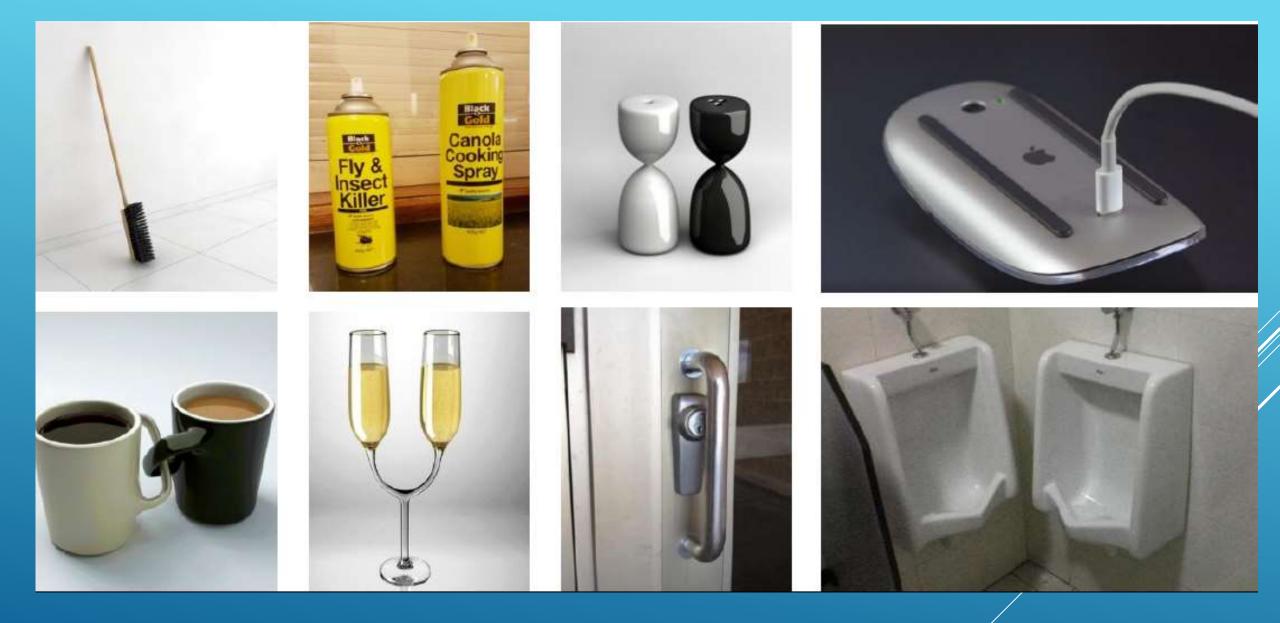
The Danger of **DT "Fetish"**

- DT is so common-sensical, it is tempting to label any convergent divergent process as "DT"
- DT is often reduced to "Post-it" exercise.
- Many jump into the conclusions / solutions in the process.
- Lack of "Design Crit" or criticism which is essential in any design process.



A process where a small group of people **provide critique** to a result or a prototype of a design:

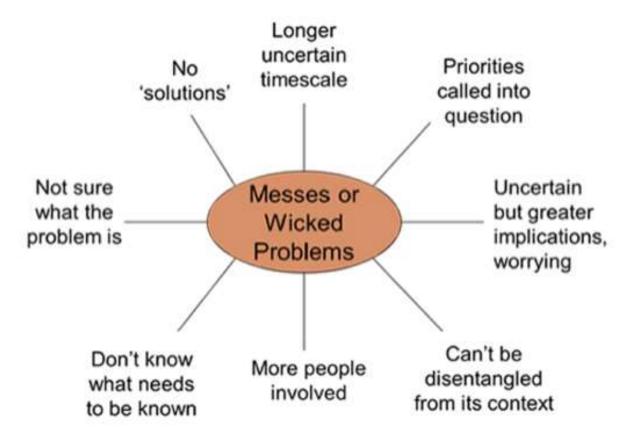
- 1. Identify **audience** (lecturers, experts, etc).
- 2. Clarify a **goal** e.g. "to sharpen the insights from empathize process".
- 3. Set **context** (ensure that everyone is on the same page on what you do).
- 4. Tell the **stories** of your prototype or design or insights.
- 5. Set the room into **critique mode** "what of you think about this".
- 6. List all the feedback.
- 7. Follow up (re-design, re-prototype, redevelop insight, etc.).

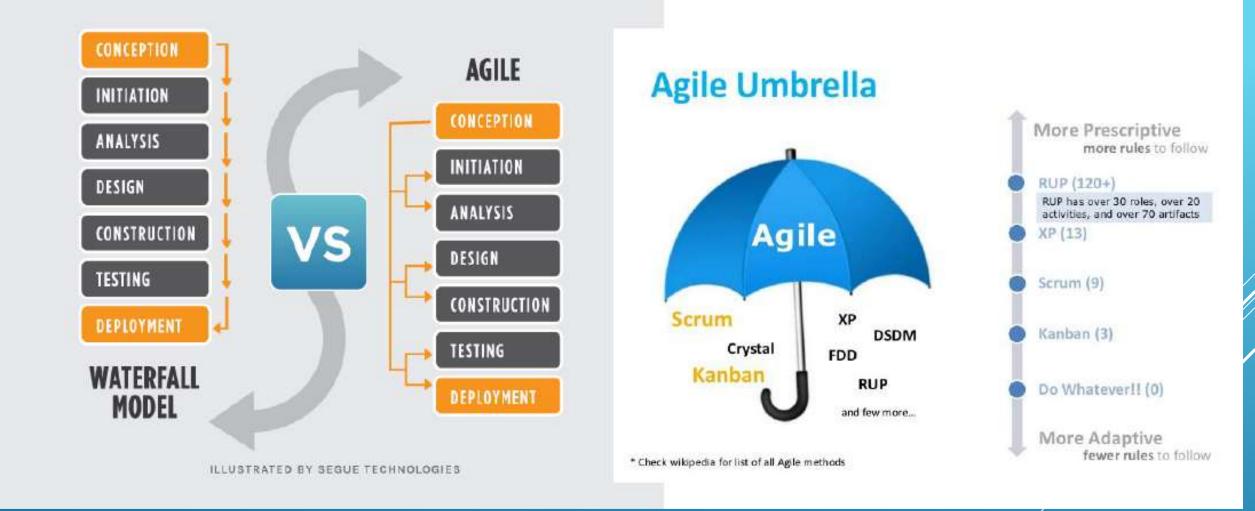


Creativity "Accidents"

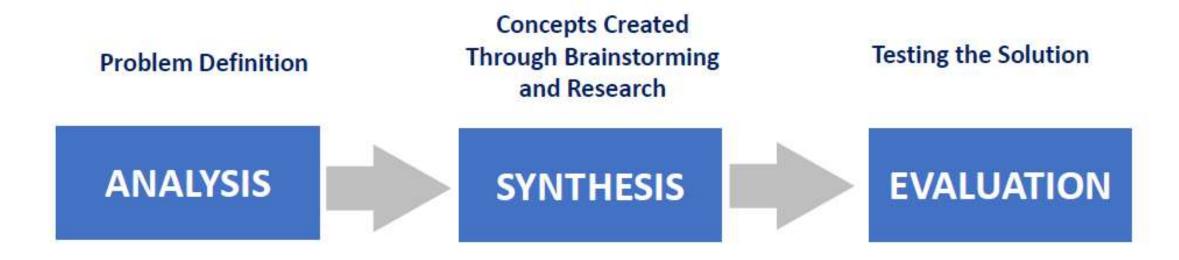
A form of **social or cultural problem** that is **difficult** to solve because of **incomplete**, **contradictory**, and **changing** requirements.

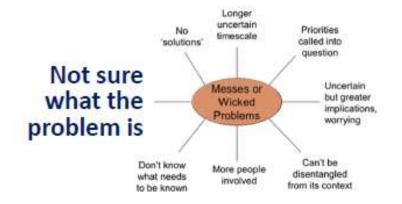






Based on determined problems in defined situations





Linear methods are not enough to solve a wicked problem, which we just **not sure** what the problem is.

Linear Method

howmightwe...?

KNOW

define
identify
describe
match
recognise
select
examine
tell
visualise

UNDERSTAND

predict
associate
demonstrate
distinguish
discover
research
transform
describe
compare

APPLY

solve
apply
construct
choose
prepare
produce
chart
judge
transfer

ANALYSE

focus
compare
experiment
question
test
correlate
separate
analyse
compare

EVALUATE

reframe
recommend
support
convince
defend
assess
consider
critique
persuade

CREATE

create
develop
modify
rewrite
devise
imagine
negotiate
design
structure



Template:

How Might We ACTION WHAT for WHOM in order to CHANGE SOMETHING

Example:

How might we bridge the disconnect between culture and technology for members of the organisation in order to improve communication

How might we built the online connections for people who want to rent out their homes with people who are looking for accommodations in order to give new experience of traveling



Airbnb is an online marketplace that connects people who want to rent out their homes with people who are looking for accommodations in that locale. It currently covers more than 81,000 cities and 191 countries worldwide.

DARE TO EXPERIMENT

Design thinking is a part of Airbnb's success; in particular, they built a culture of experimentation: "It was only when they gave themselves permission to experiment with non-scalable changes to the business that they climbed out of what they called the 'trought of sorrow.'"

This is how the famed start-up went from \$200 a week profit to the "unicorn" it is today.

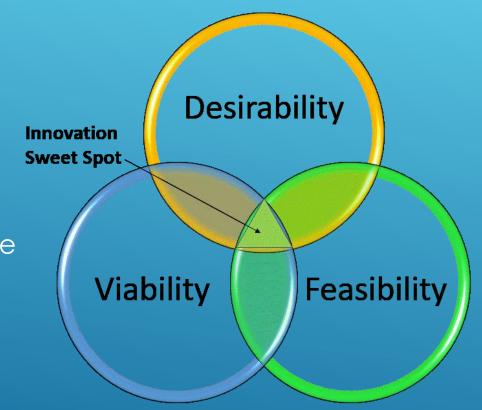
E.g. Airbnb





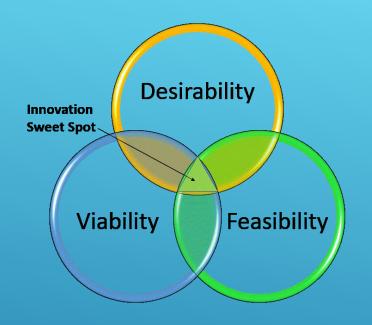


Desirability tests whether your innovation is solving the right customer / user problem



Viability tests your value chain for long-term sustainability

Feasibility tests whether your innovation strengthens your business





At two emerging markets, car sharing and electric cars. The customers who are drawn to both are concerned about two things:

- the environmental impact of driving a gas-powered car,
- the cost of ownership.

Tesla has primarily focused on building cars that are environmentally friendly. While this works for an upscale niche of people, there are many others who can't afford to have a Tesla sitting in their driveway, and who are concerned about both the cost of ownership and the environmental impact of building one car for every person.

So Elon Musk as Leader think about both sides of the equation. Once his cars become autonomous, they can drive others around after their owner has reached their destination. This pivot can **increase the desirability of the Tesla for their target customer**, and provides direction for the design team to also build for share-ability.

Tesla are not proposing they build a car sharing service and compete with Uber. Instead they are building on their core capabilities and brand strength to design an autonomous car that has been built for the sharing economy.

One of the smartest moves that Musk made with Tesla is to build infrastructure to support drivers who needed to recharge for longer trips. His shift towards designing for the sharing economy shows similar foresight, ensuring his cars will be able not only to fit into this trend, but also to lead it.

Tesla Cases Study



Businesspeople don't need to understand designers better. They need to be designers.

-- Roger Martin, dean, Rotman School of Management

1. What business challenges that Apple must deal with?

Business challenges:

- The future of Apple was uncertain (stock price drop to \$5, market share and profit were declining, the company was nearly written off.
- Unstable strategy due to change of executives teams.
- Unclear vision about Apple's competitive strategy
- Product not unique in the market
- Too many failed products (e.g. set-top boxes for TVs, Apple PDA (Newton), etc) than the successful ones (e.g. PowerBook)
- 2. Do you think they can be resolved by using continuous improvement? Explain your answer.

Continuous improvement alone is not sufficient to solve those business challenges because continuous improvement only focus on exploitation / improvement of existing products. Design thinking approach is more suitable to understand customer needs (exploration).

- 3. How does Apple integrate Design Thinking into its strategy to overcome the business challenges? Describe the way Apple use the human-centered design (people desirability, business viability, and technology feasibility) in their strategy and execution.
- Apple focuses on people's needs and desires, rather than business needs by building user empathy and create simple and user-friendly products
- Beautiful products beyond fashion
- Using platform strategy to make production more stable, reliable, quickly and cost efficient
- Involving customers in the design and testing (participatory design)
- CEO as Chief Innovator
- Excellent in execution
- Bold business experimentation: internet-based business models (App Store)

Please answer your opinion to:

https://forms.gle/3w5nS11ThxsYaJ8C7





THANK YOU