

DESIGN & DESIGN THINKING: MYTH & METHODOLOGY

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Perception of Design





What most student thinks



What society thinks



What company may think

Design as Nouns





Today's Topics



- Why (Design & Design Thinking)?
- What (Design & Design Thinking)?
- How (Design & Design Thinking)?

WHY?





World's Mega Trends



- The Millennials
- Rapid Urbanization
- Interconnected Global Economy
- Cutting-edge technology
- Climate Change
- Environmental Crisis
- Uncertain Energy Future
- New Vulnerability

Technology Disruption









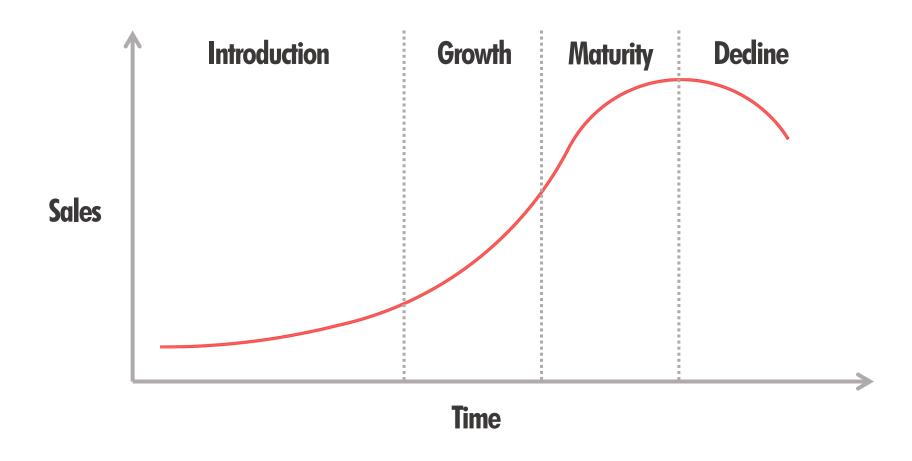






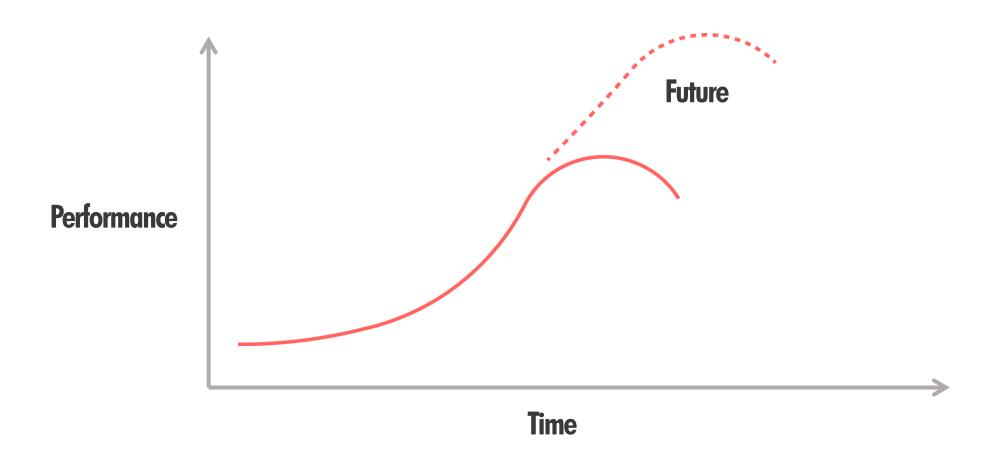
Product Life Cycle





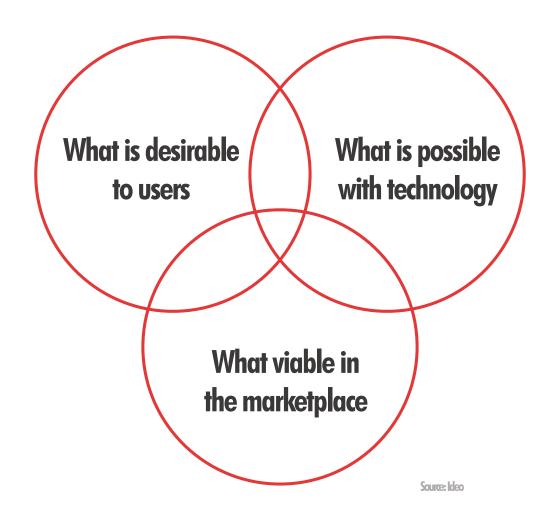
The New "S" Curve





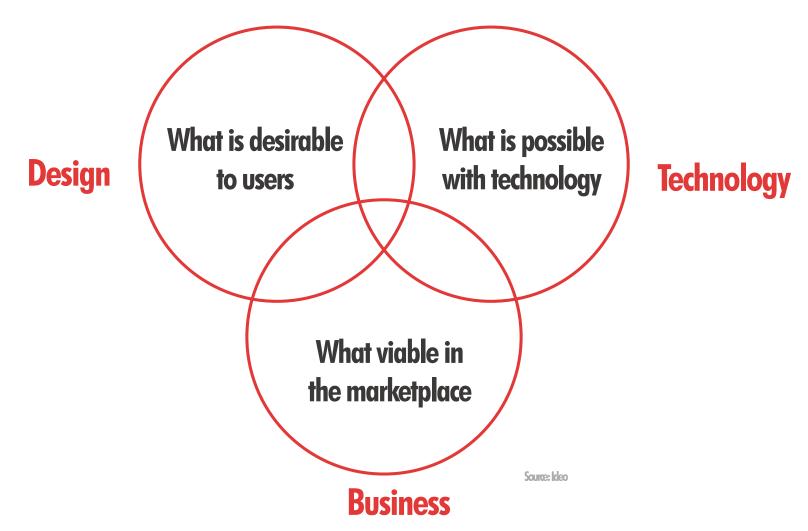
Ideo's Innovation Framework





Ideo's Innovation Framework





Forbes's Most Innovative Company 2021

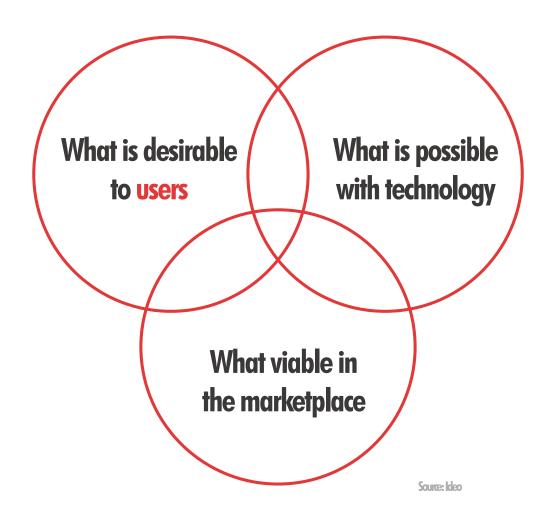


now #1 ServiceN	ow NETFLIX #6 Netflix	#11 Monster	Beverage #16	Regeneron Pharmaceuticals
workday. #2 Workday	Incyte #7 Incyte	#12 Unilever	Indonesia VERTEX #17	Vertex Pharmaceuticals
salesforce #3 Salesforce	ee.com #8 Hindusta	n Unilever #13 Adobe Sy	/stems AMOREPACIFIC #18	Amorepacific
#4 Tesla	NAVER #9 Naver	©ELLTRION #14 Celltrion	Americanoi@ergen #19	AmerisourceBergen
amazon #5 Amazon.	com #10 Facebook	#15 Autodesk	illumına #20	Illumina

Source: https://www.forbes.com/innovative-companies/list/#tab:rank

Ideo's Innovation Framework





Human's Needs



Morality, Creativity, Spontaneity,		
Problem Solving, Lack of Prejudice,		
Self-esteem, Confidence, Achievement,		
Respects of Others, Respects by Others		
Friendship, Family, Sexual Intimacy		
Security of Body, Employment, Resources, Morality,		
the Family, Property		
Breathing, Food, Water, Sex, Sleep, Homeostasis, Excretion		

Source: Maslow's Hierarchy of Needs

UN's Sustainable Development Goal (SDGs)

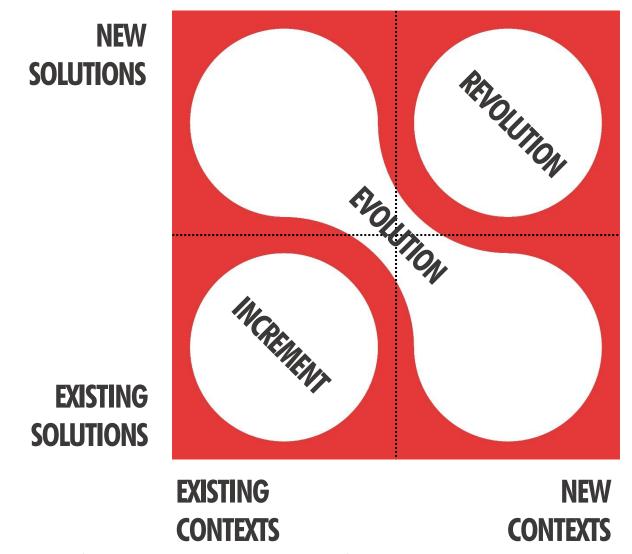




Challenge



Source: Banny Banerjee



WHAT?

Design as Verb



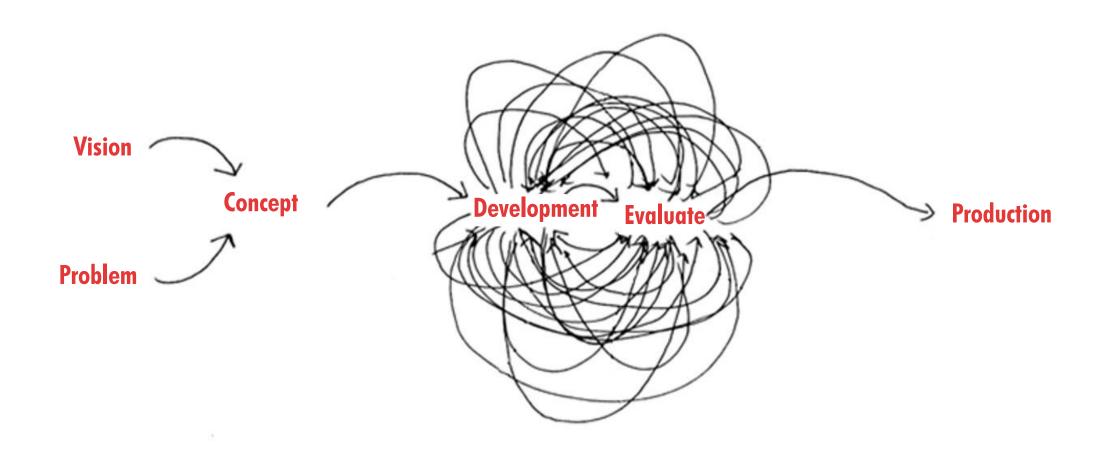
"Design is a process of decision-making that aims to create effective and attractive solutions to a problem"



Source: Boland and Collopy, 2004

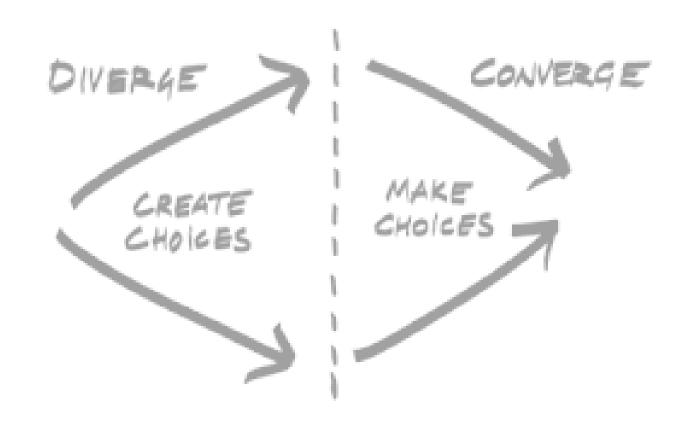
Design as Verb





Design as Creative Systematic Thinking





Design Timeline















June 19 to 24, 1966 The International Design Conference in Aspen

Presidential

dmi: design management institute



Circular Economy

Industrial Economy

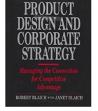
950

Prize by the Royale Society of Arts

thinker, planner and coordinator (Pilditch 1965)

Designer as





Creative



The dmi:Design Value Index Outperforms the S&P 500 Index (Again) The 2015 results of the dmi:Design Value Ind Study shows a continued advantage sustaine by organizations that invest in design, and a

Design and **Industries Association**

> "Design management as the function of defining a design problem, finding the most suitable designer, and making it possible for him to solve it on time and within a budget" (Farr 1965)

Product Design

Information

Design

Design Economy within organization Environment (Gorb 1978) al Design

"Design for Managers"

DESIGN THINKING!

"Design management is the encompassing of on-going processes, business decisions, and strategies that enable innovation ...that enhance our quality of life and provide organizational success" (DMI 2017)

"Design for **Everyone**"

"Design for **Designers**"

1960

970

980

990

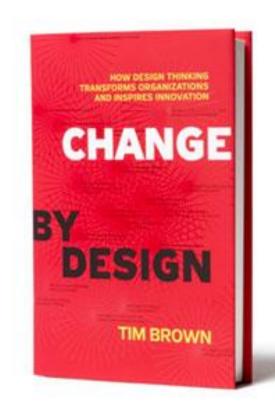
2000

2010

2020

Tim Brown's Design Thinking









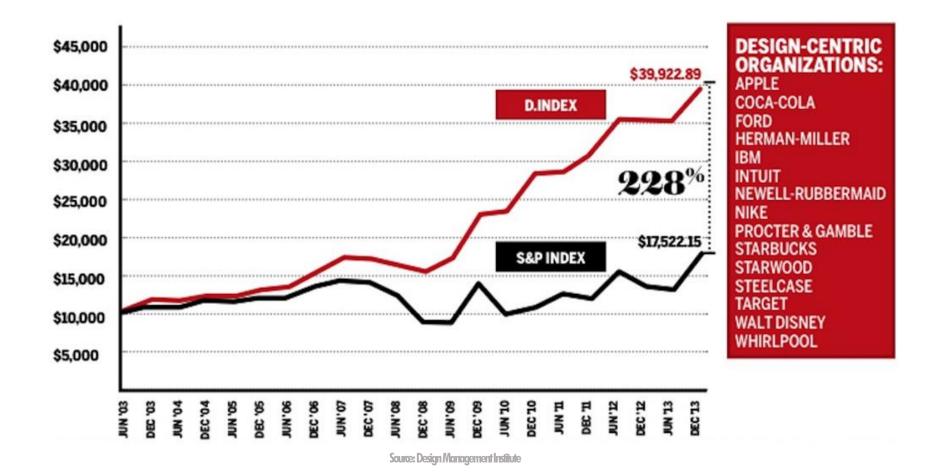
Source: Fortune.com

Extend beyond "design" into:

- Various industries such as finance, healthcare, and manufacturing
- Other verticals including workflows, processes, and operations

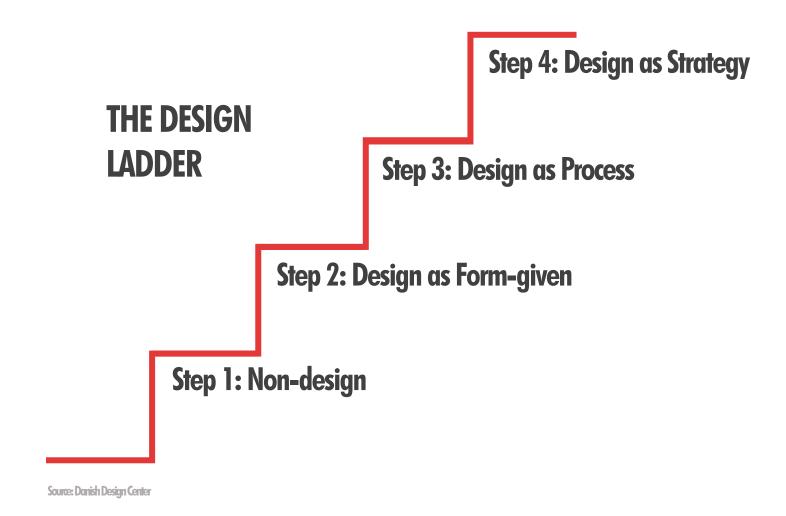
DMI's Design Value Index





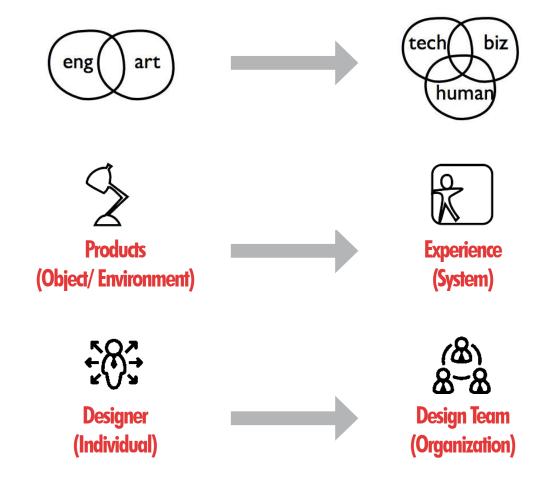
Danish's Design Value Index





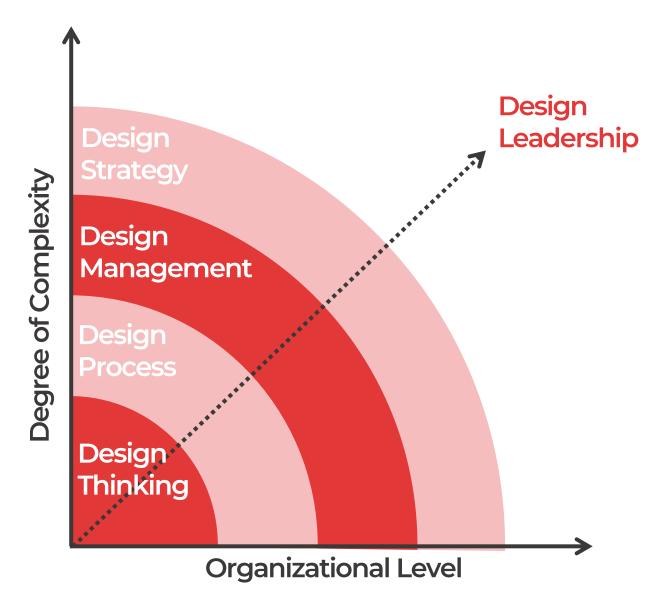
Trends in Design & Design Thinking





Design in a Nutshell

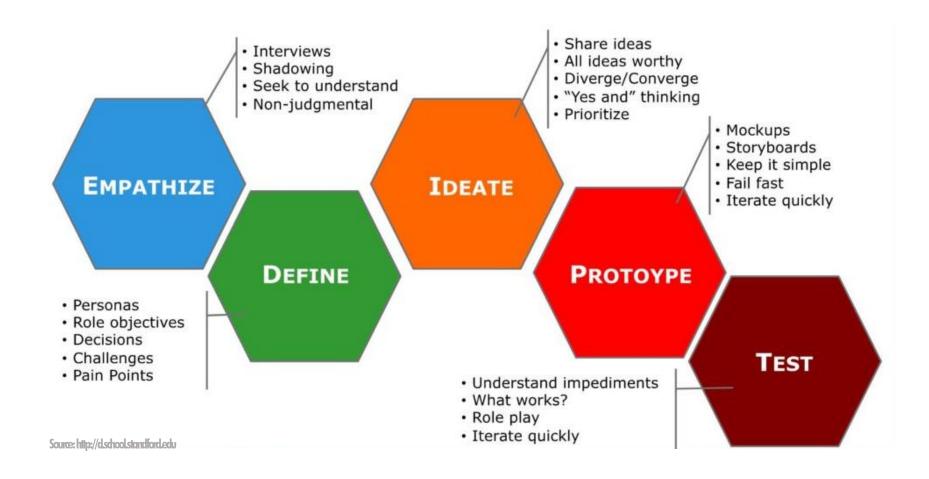




HOW?

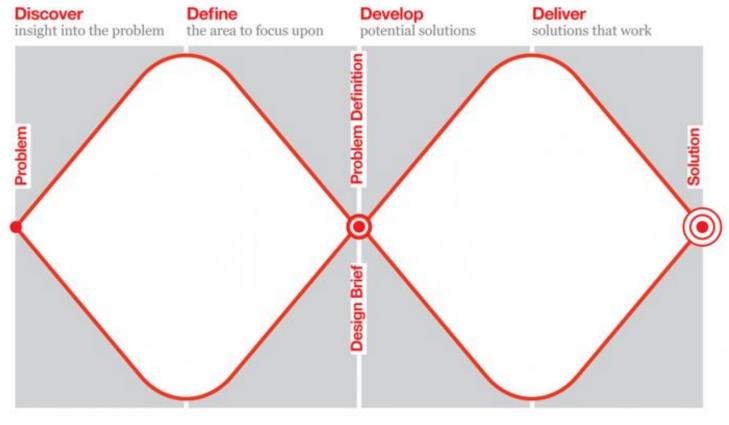
D. School's Design Thinking





UK Design Council's Double Diamonds

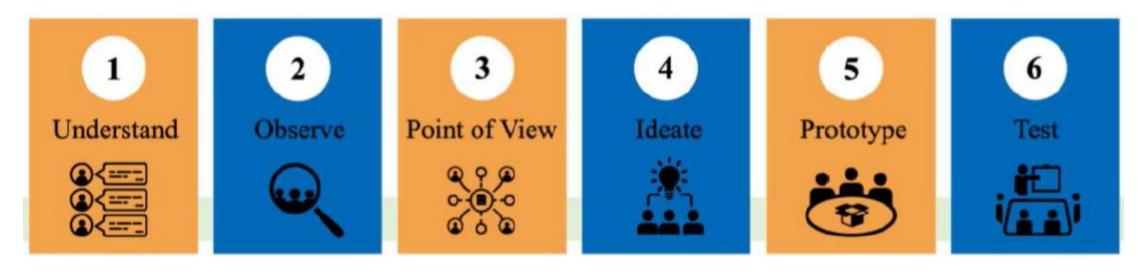




Source: UK Design Councils

NUS's Design Thinking





Source:: NUS Business School

Design Thinking at Philips





"Combining conventional consulting approaches with a design thinking methodology brings care processes to life from an emotional point of view, while ensuring they are economically viable."



Source: www.philips.com.sg



Dr. Patrick HeilerPrincipal Consultant, DACH region

Design Thinking at P&G



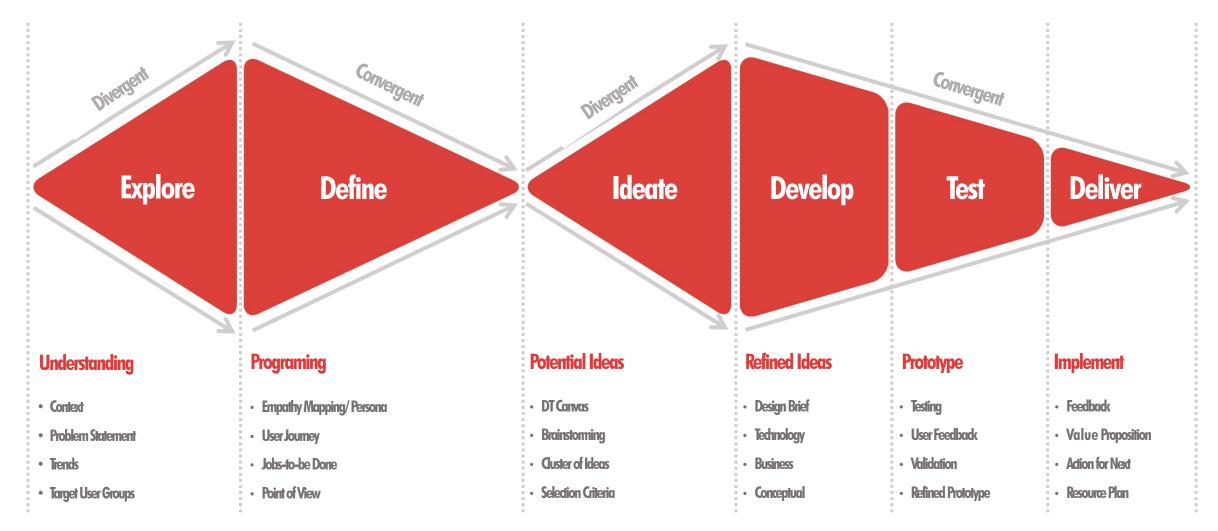


- Clearly define problem to be solve with innovation
 - Understand and imagine the experience for the customer
 - Prototype and test
 (Minimum viable prototype)

Source:: NUS Business School

TDS's Design Thinking





TO CONCLUDE

Benefits of Design & Design Thinking



- Gain an understanding of user's needs
- **2** Co-created solution
- **3** Create multiple solutions
- Refined solution from feedback
- Reduce biases, save time & money

Tips for Non-designer





Human/ Eco Centric



Start with "Why"



Design/ Design Thinking is not a linear process



Fail Faster, Learn Faster



No Ego



THANK YOU FOR YOUR ATTENTION

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