



THAMMASAT
DESIGN SCHOOL

DESIGN & DESIGN THINKING: MYTH & METHODOLOGY

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Founder of Asia's first integrated Bachelor's and Master's program in Design, Business & Technology Management



**Dean of the Faculty of Architecture & Planning,
Thammasat University**

Perception of Design



What most student thinks



What society thinks



What company may think

Design as Nouns



1

Why (Design & Design Thinking) ?

2

What (Design & Design Thinking) ?

3

How (Design & Design Thinking) ?

WHY ?





V - Volatility
U - Uncertainty
C - Complexity
A - Ambiguity

World's Mega Trends

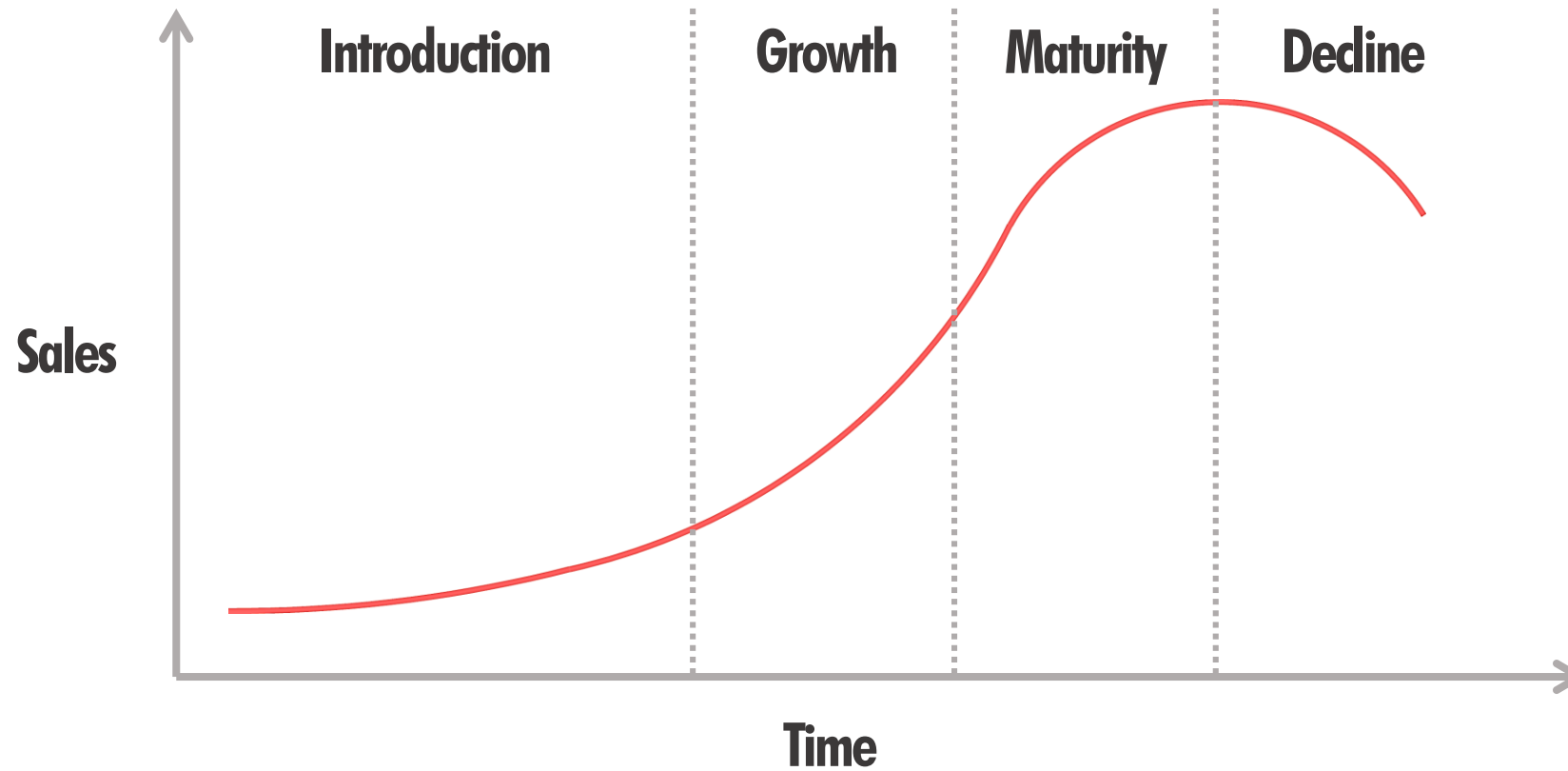


- **The Millennials**
- **Rapid Urbanization**
- **Interconnected Global Economy**
- **Cutting-edge technology**
- **Climate Change**
- **Environmental Crisis**
- **Uncertain Energy Future**
- **New Vulnerability**

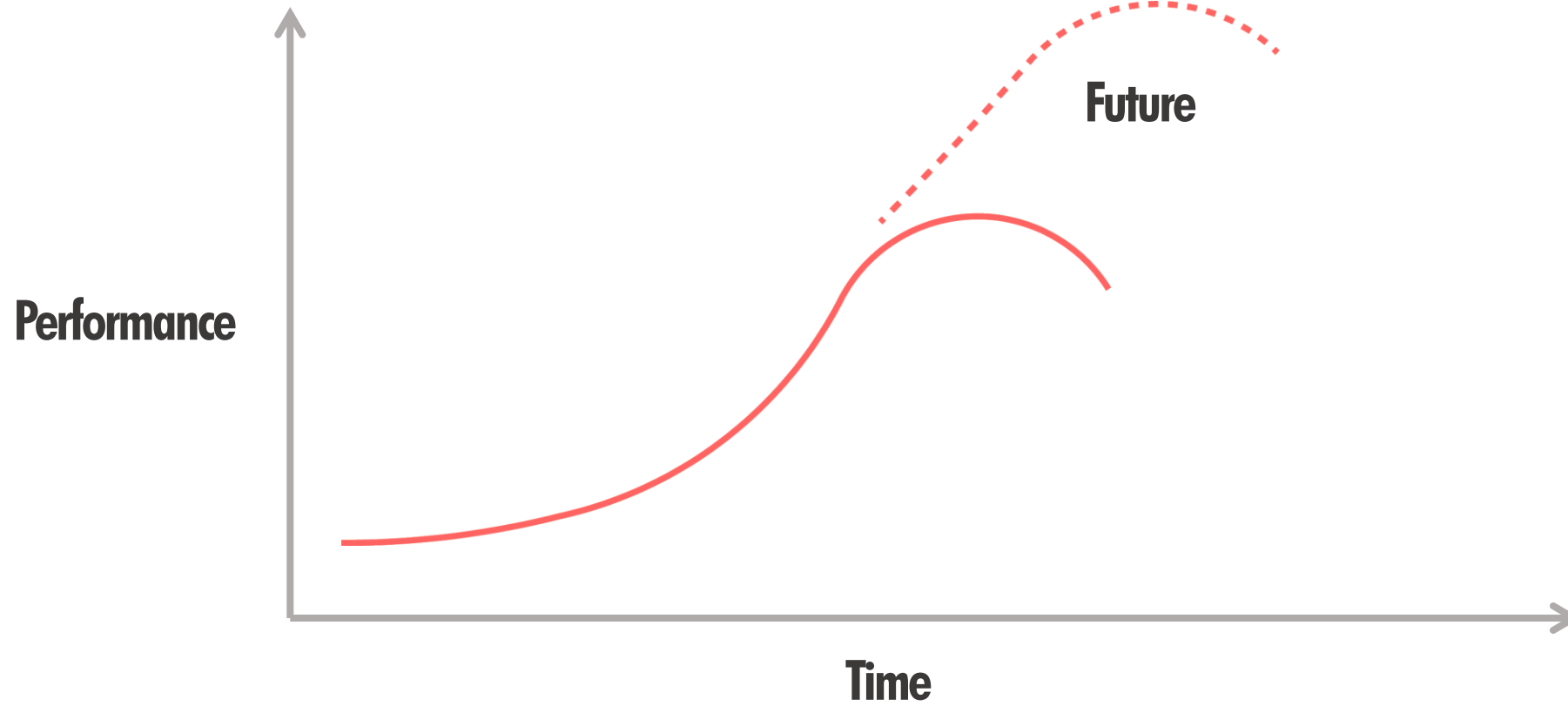
Technology Disruption



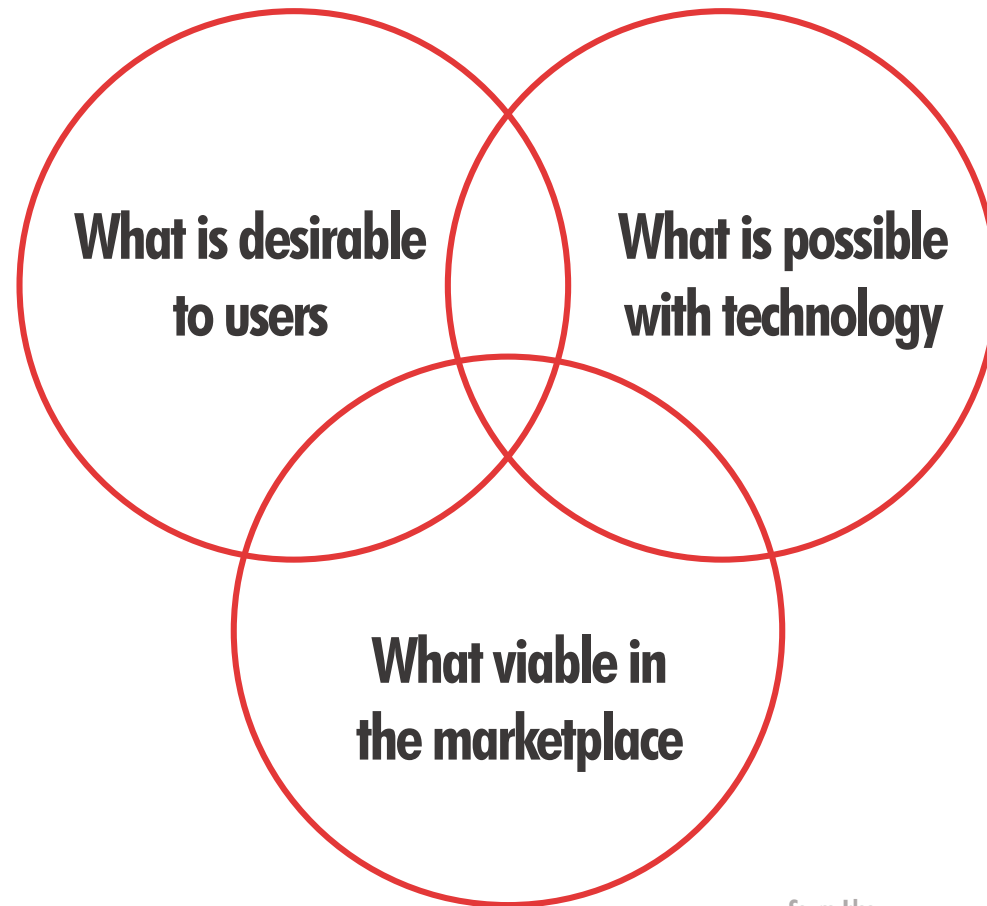
Product Life Cycle



The New "S" Curve

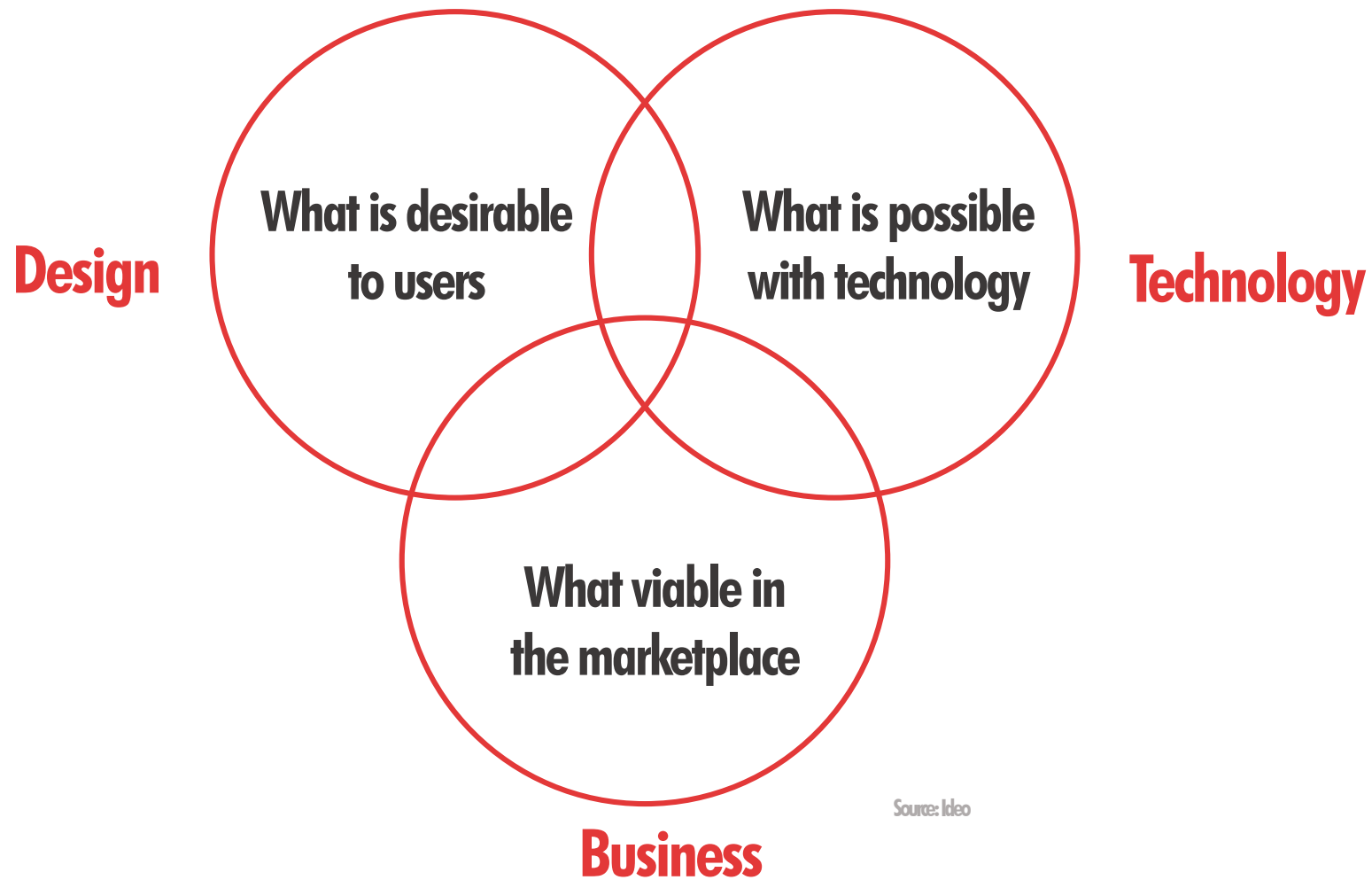


Ideo's Innovation Framework























Source: Ideo

Ideo's Innovation Framework

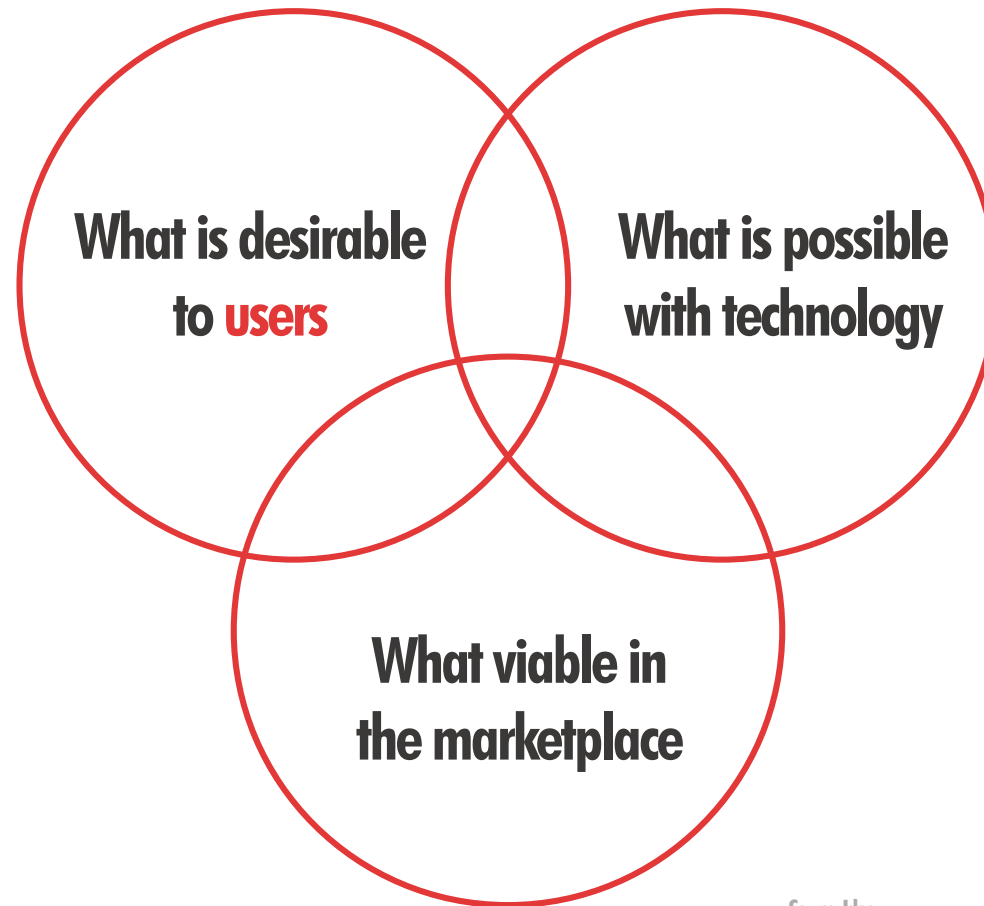


Forbes's Most Innovative Company 2021

 #1 ServiceNow	 #6 Netflix	 #11 Monster Beverage	 #16 Regeneron Pharmaceuticals
 #2 Workday	 #7 Incyte	 #12 Unilever Indonesia	 #17 Vertex Pharmaceuticals
 #3 Salesforce.com	 #8 Hindustan Unilever	 #13 Adobe Systems	 #18 Amorepacific
 #4 Tesla	 #9 Naver	 #14 Celltrion	 #19 AmerisourceBergen
 #5 Amazon.com	 #10 Facebook	 #15 Autodesk	 #20 Illumina

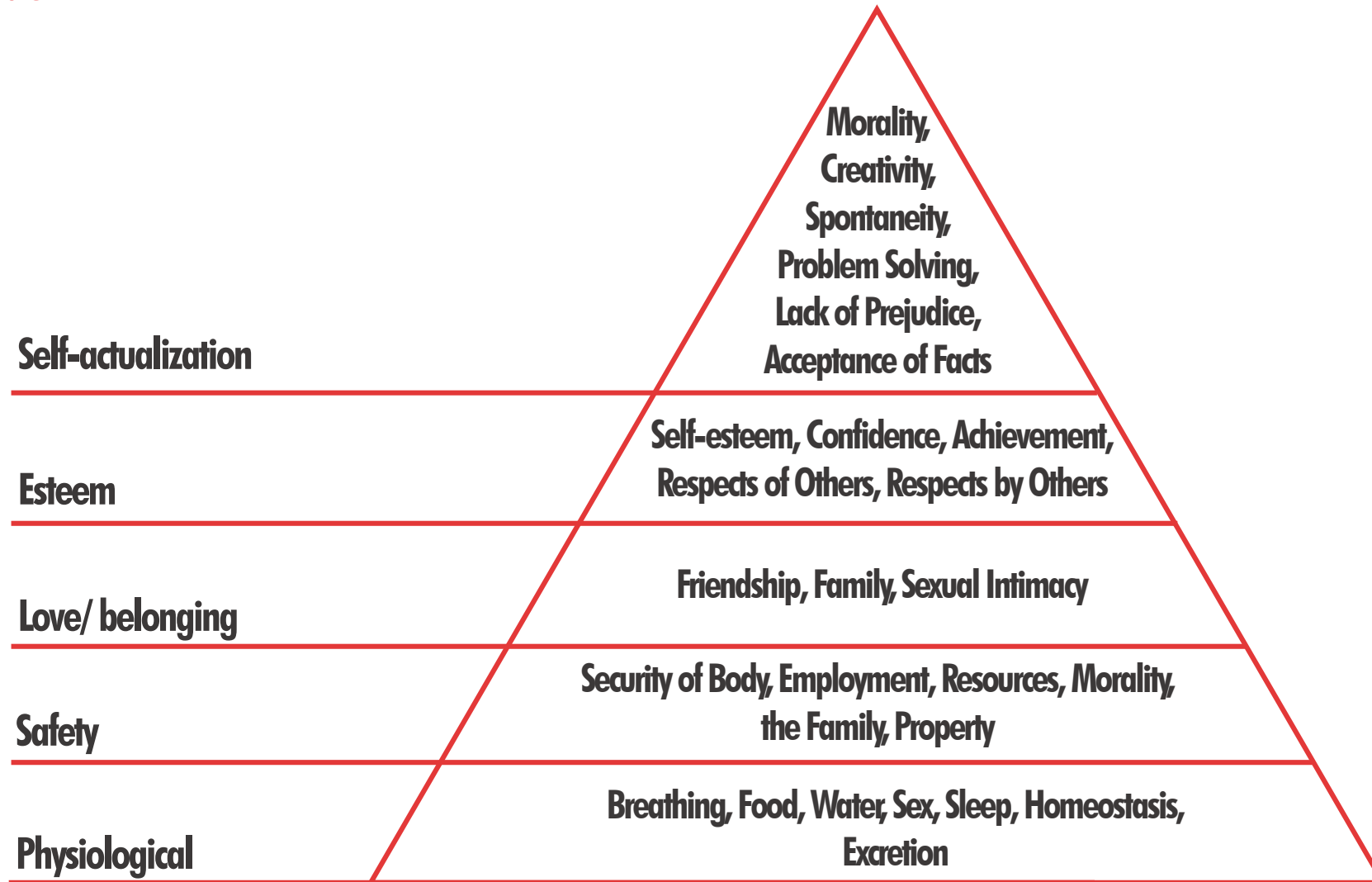
Source: <https://www.forbes.com/innovative-companies/list/#:~:tab=rank>

Ideo's Innovation Framework



Source: Ideo

Human's Needs



Source: Maslow's Hierarchy of Needs

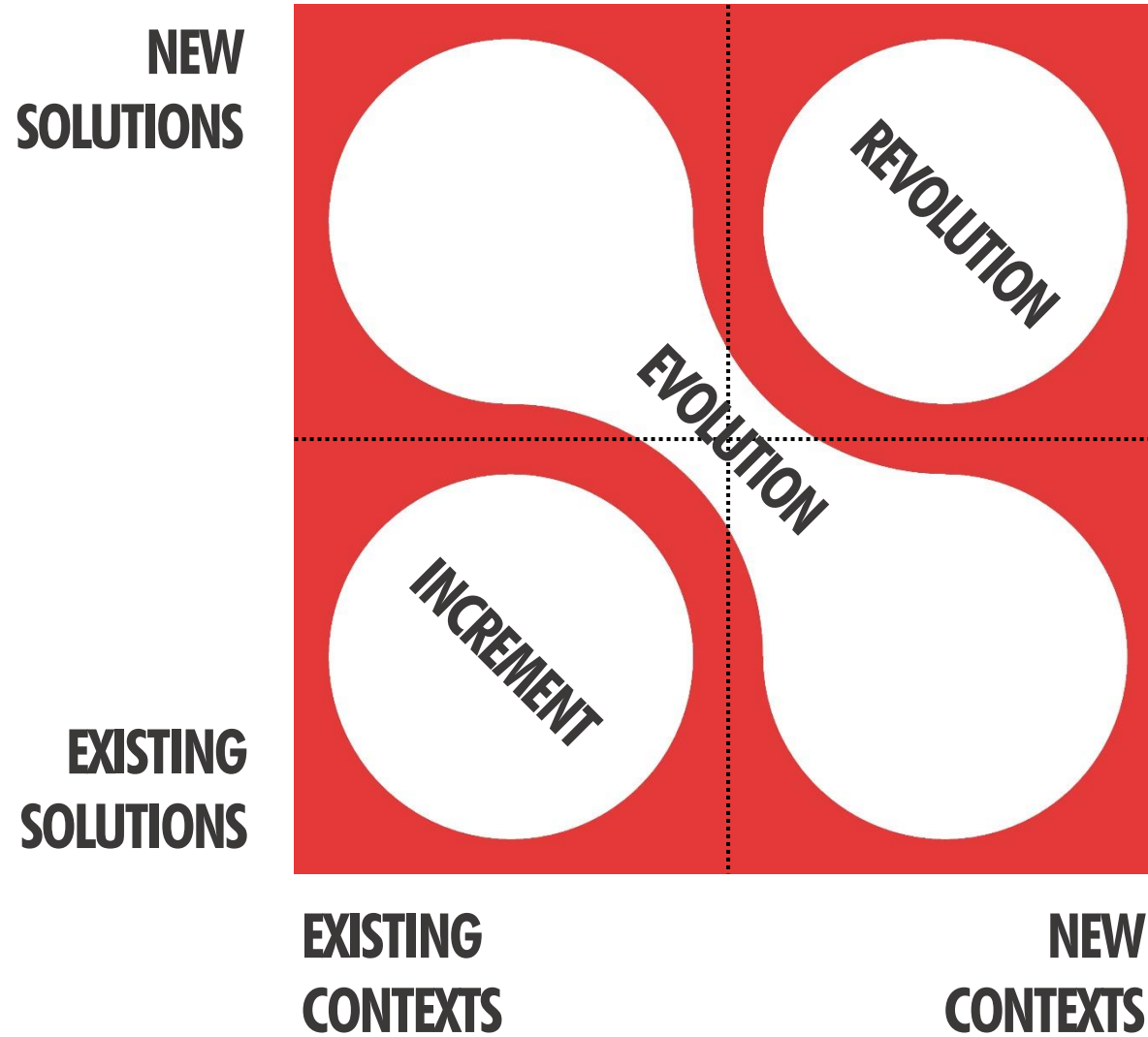
UN's Sustainable Development Goal (SDGs)



Challenge



Source: Barry Banejee



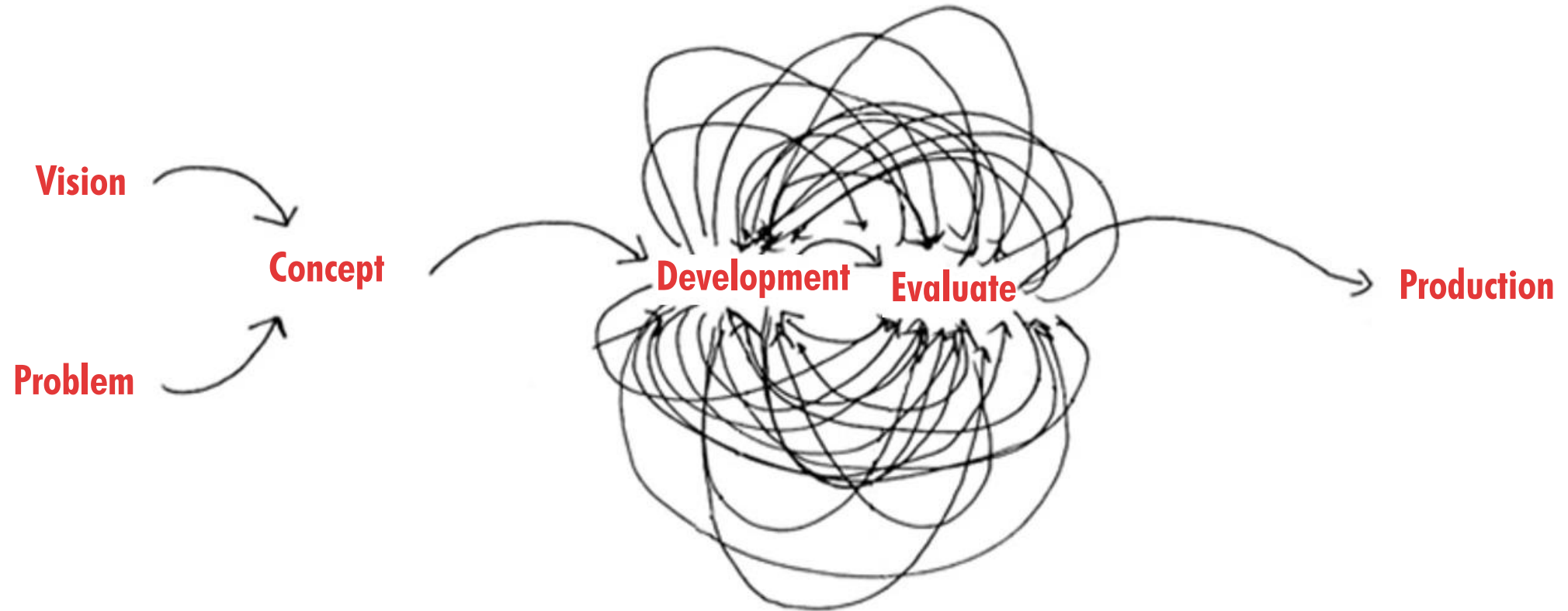
WHAT ?

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

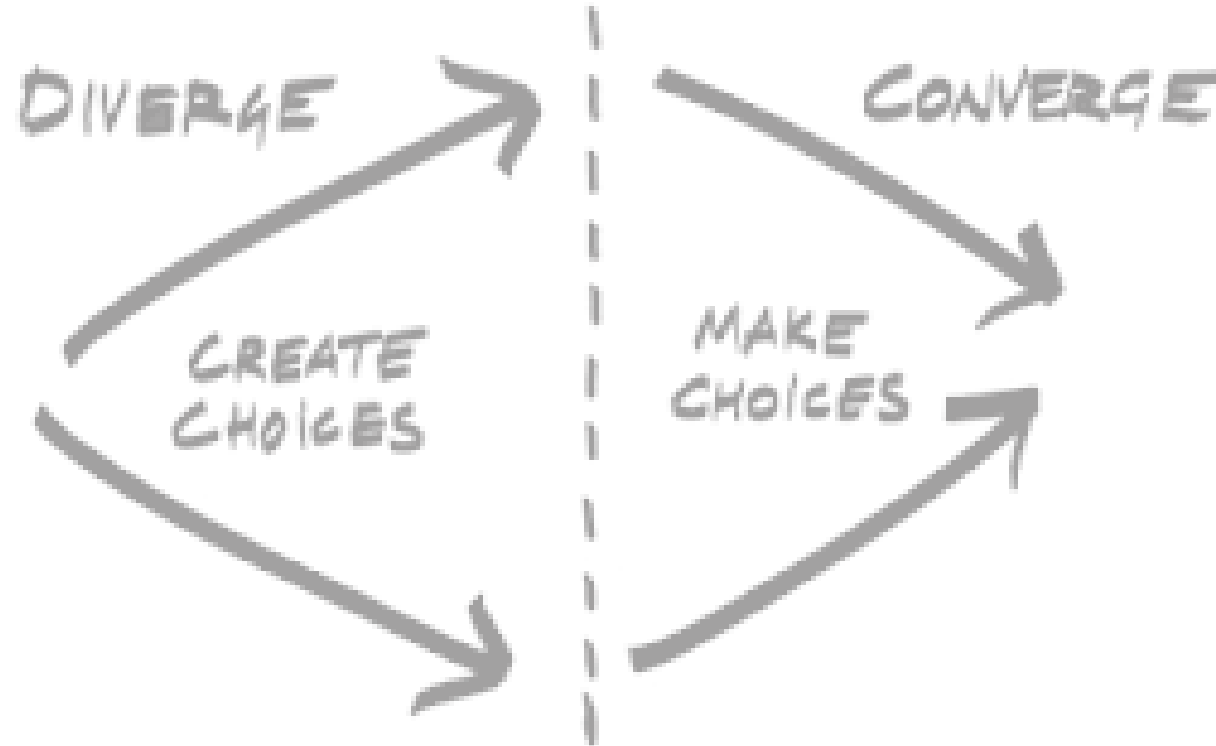
Source: Boland and Collopy, 2004



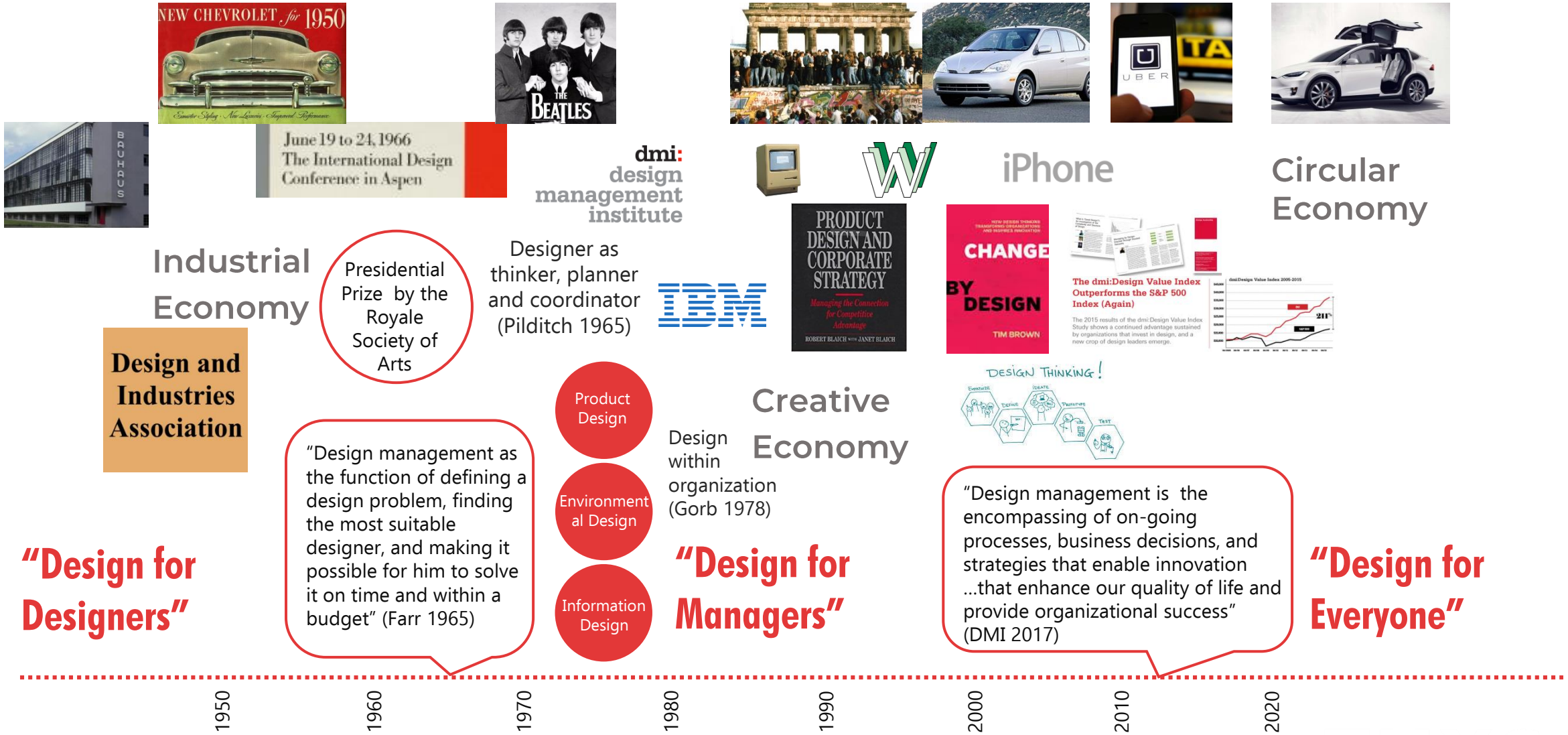
Design as Verb



Design as Creative Systematic Thinking



Design Timeline



Tim Brown's Design Thinking



I D E O

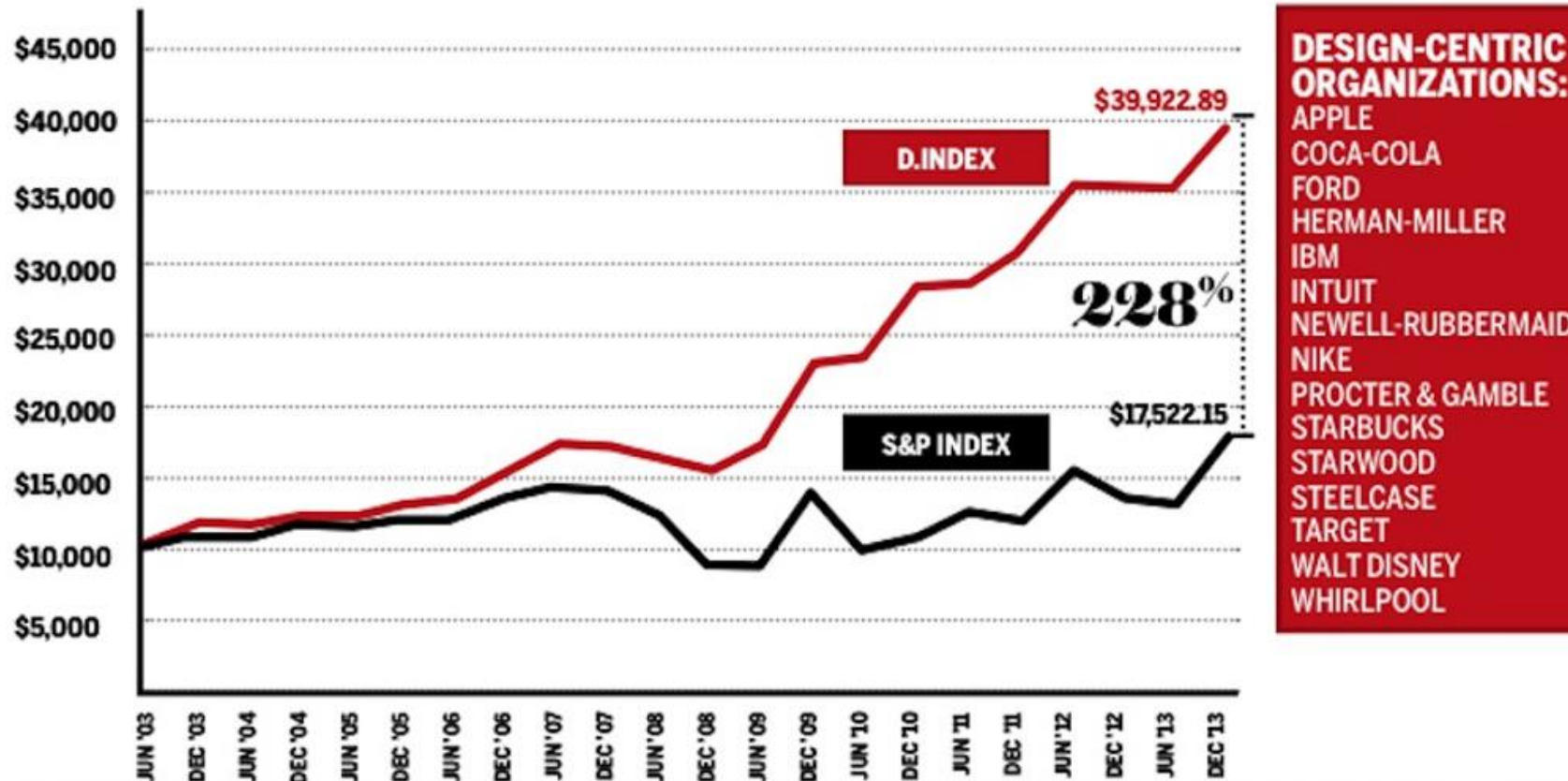


Source: Fortune.com

**Extend beyond “design”
into:**

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

DMI's Design Value Index

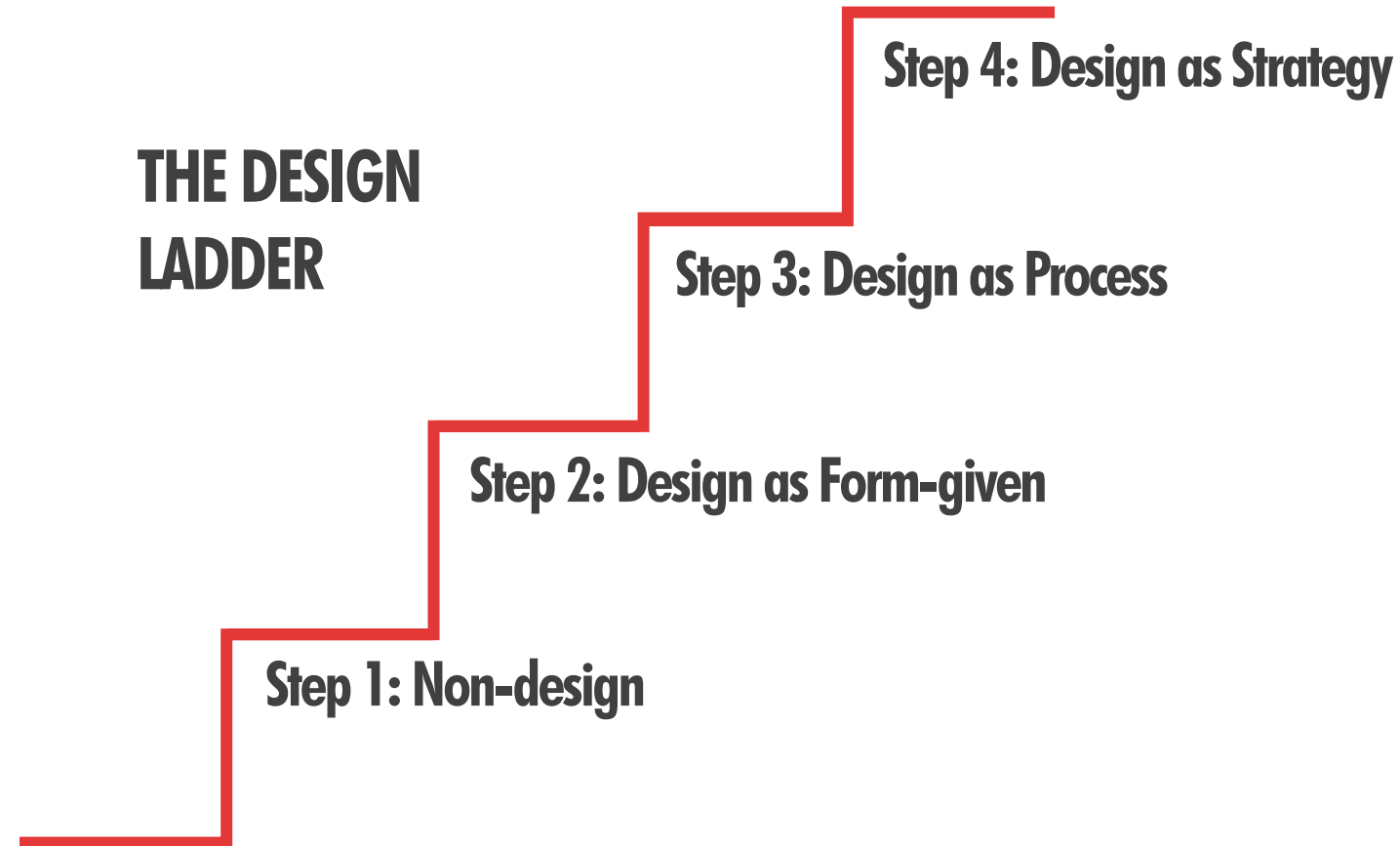


DESIGN-CENTRIC ORGANIZATIONS:

- APPLE
- COCA-COLA
- FORD
- HERMAN-MILLER
- IBM
- INTUIT
- NEWELL-RUBBERMAID
- NIKE
- PROCTER & GAMBLE
- STARBUCKS
- STARWOOD
- STEELCASE
- TARGET
- WALT DISNEY
- WHIRLPOOL

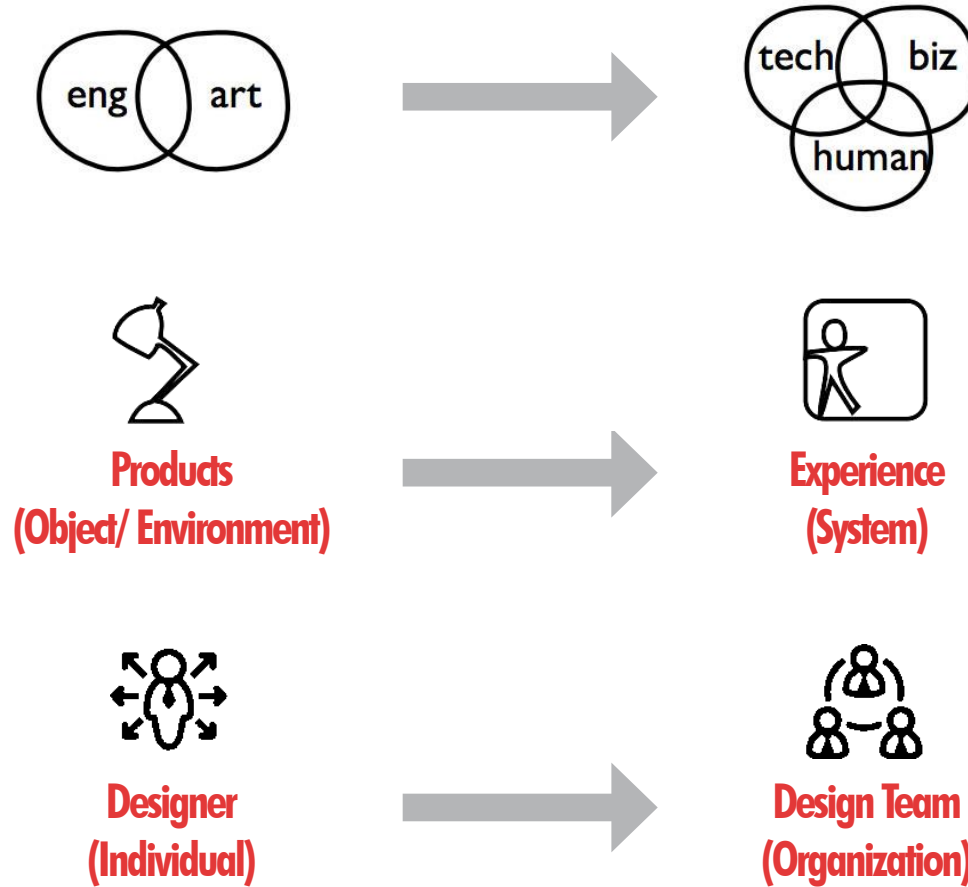
Source: Design Management Institute

Danish's Design Value Index

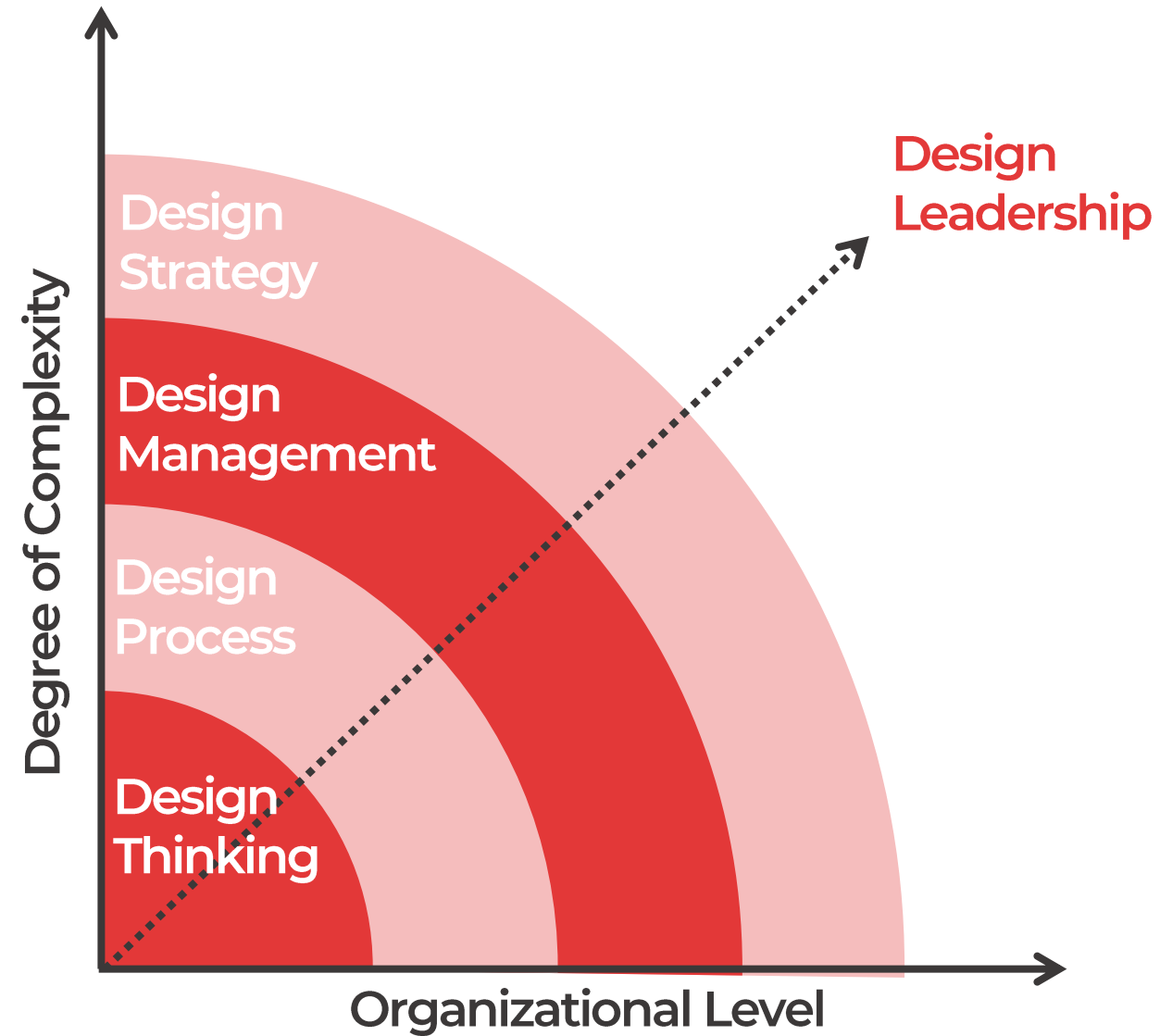


Source: Danish Design Center

Trends in Design & Design Thinking

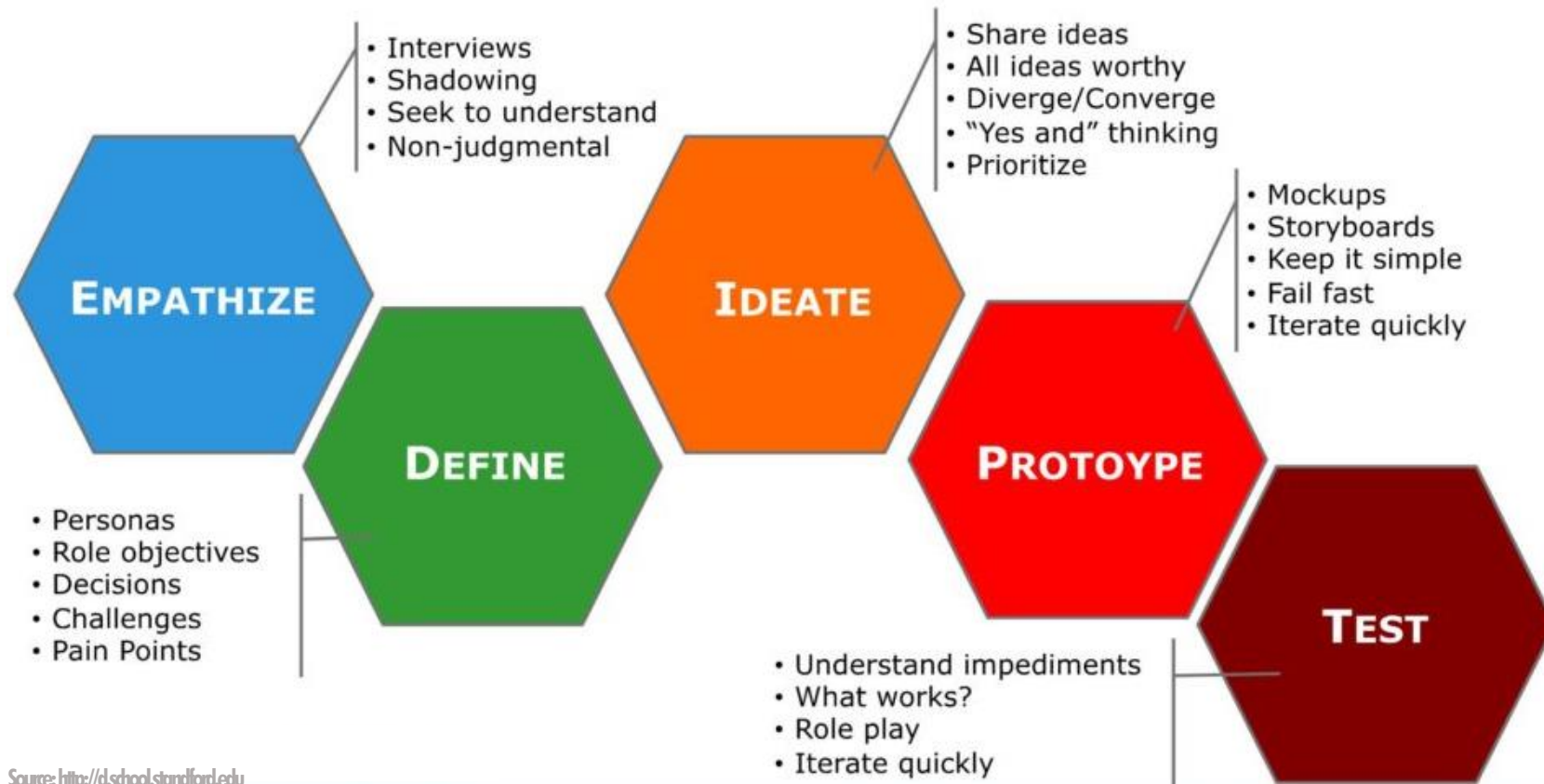


Design in a Nutshell

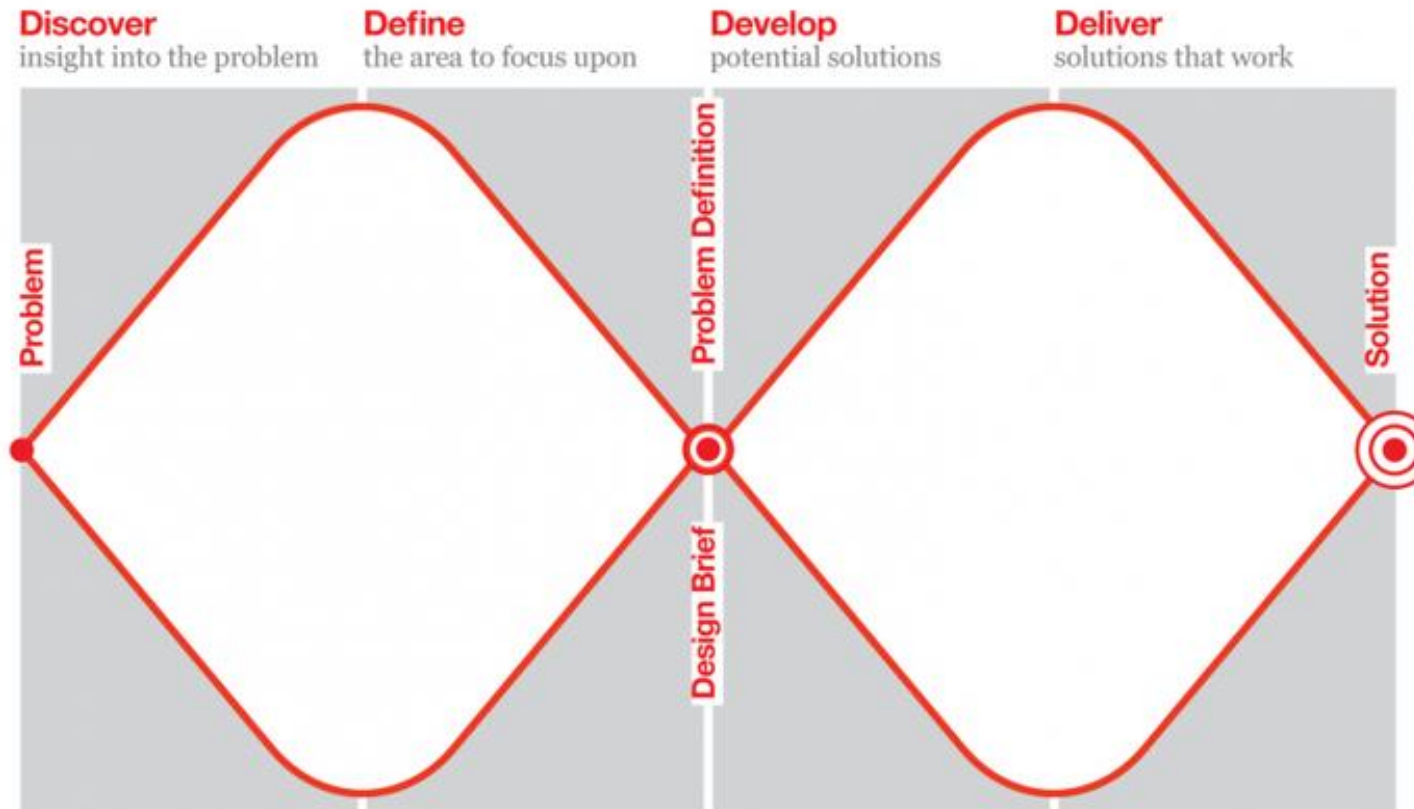


HOW ?

D. School's Design Thinking

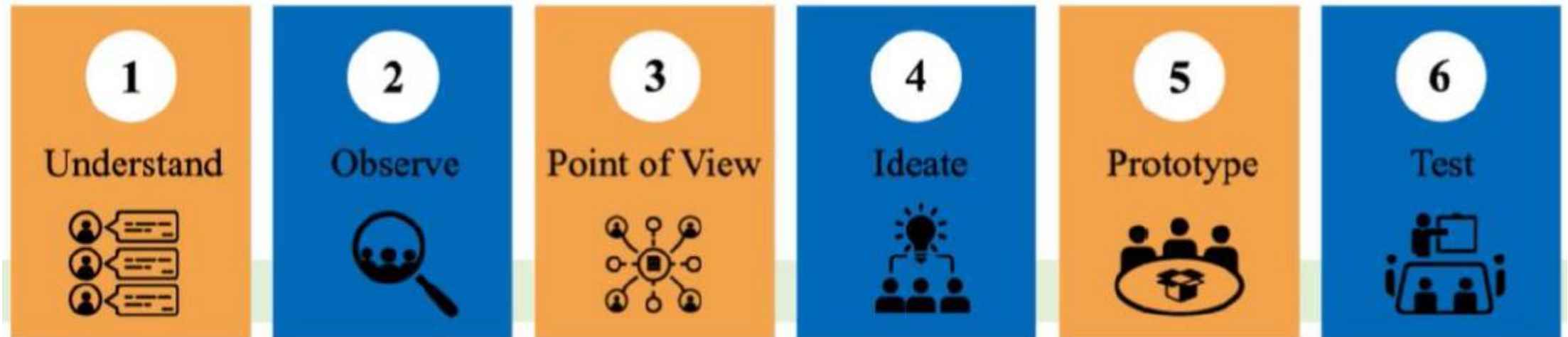


UK Design Council's Double Diamonds



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 Heiler

Principal Consultant, DACH
region

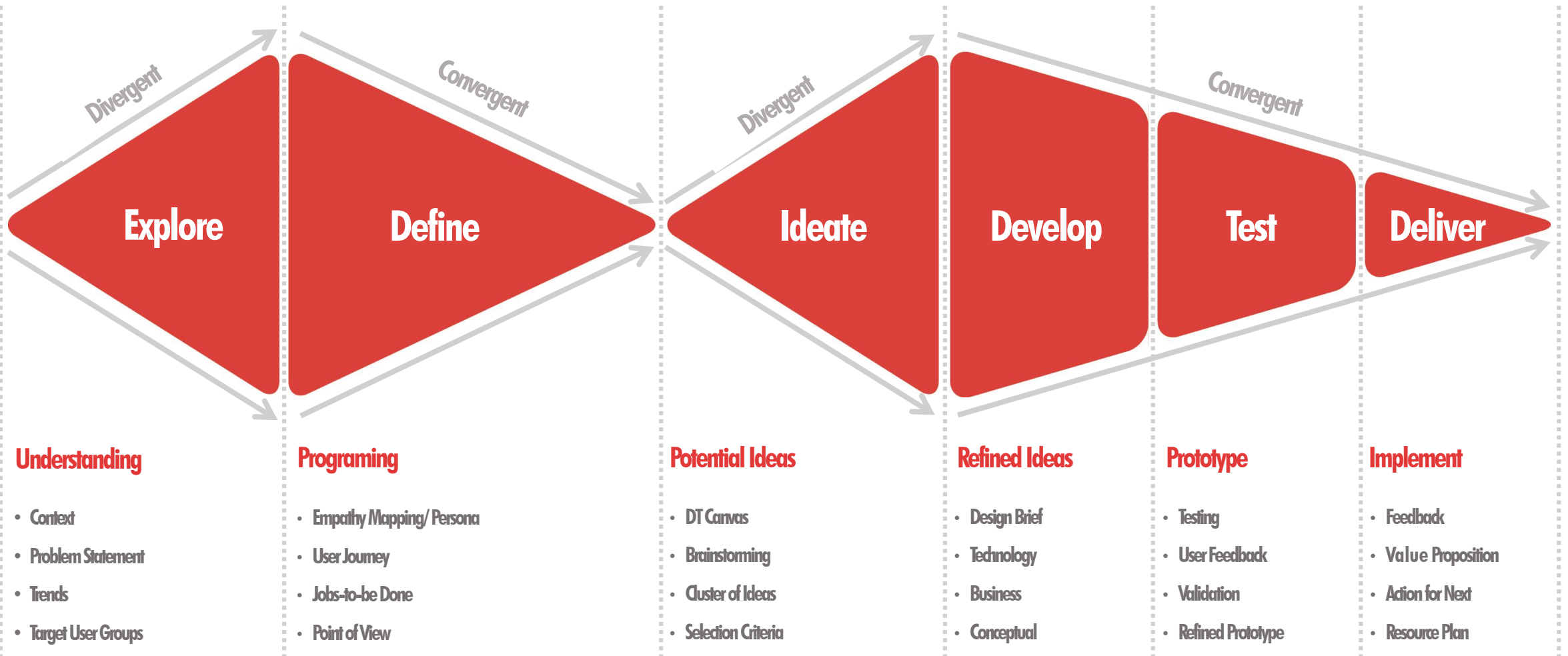
Design Thinking at P&G



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

Source: NUS Business School

TDS's Design Thinking



TO CONCLUDE

Benefits of Design & Design Thinking

- 1 Gain an understanding of user's needs**
- 2 Co-created solution**
- 3 Create multiple solutions**
- 4 Refined solution from feedback**
- 5 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



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THANK YOU FOR YOUR ATTENTION

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