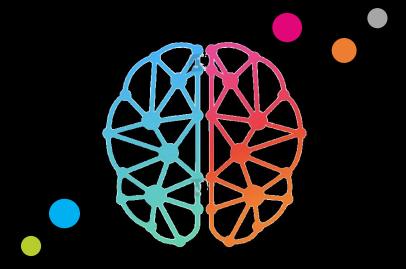
# Design Thinking Fundamentals Going Beyond Big Data

**FEBRUARY 22, 2024** 

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# HI, I'M ANJANA.









As the CEO of Starbucks, you need to decide which one of two stores you should shut down.

How would you make this decision?

What data would you use?

- Profit
- Year-on-year sales (YoY)
- Footfalls
- Average Transaction Value (ATV)
- Units per transaction (UPT)
- Sales Per Sqft Per Day (PSFPD)
- Lease expiry
- Costs
- Etc.

## **DATA SCIENCE APPROACH**

- Profit
- Year-on-year sales (YoY)
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## **DESIGN THINKING APPROACH**



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## **DESIGN THINKING APPROACH**

Design Research Methods (Ethnography):

- Observational Research
- Empathy Interviews

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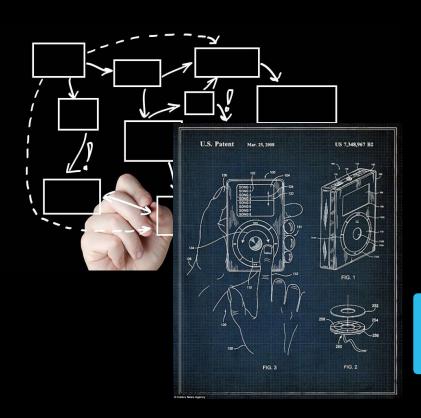
## **DESIGN THINKING APPROACH**

Design Research Methods (Ethnography):

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BIG DATA = "what" + maybe "how"

# DESIGN.







verb (process)

noun (output)

### **NETFLIX NETFLIX BUSINESS MODEL**

#### KEY PARTNERS T

- Investors
- Content production Film Maker Guilds Content distribution
- Cinemas, Theaters Data anlaytics
- TV Networks Sales and marketing
- Amazon AWS
- Consumer Electronic Companies
- Regulators

#### KEY ACTIVITIES OF

Technology R&D Content licensing

KEY RESOURCES \*\*

· Apps/website

Brand

Platform

Employees

Prizes/Awards

- 24/7 On Demand Entertainment
- View high-definition show and movies

ALUE PROPOSITIONS 🖘

- Stream content
- Unlimited access
- **Netflix Orginal**
- 30 Day free trial No commercials

- Self service
- On-demand Ease of use
- 2000 preference clusters
  - usage segmentation Geographical

Micro-segmentation

· content/languages

CUSTOMER SEGMENTS &

**GARYFOX.CO** 

#### CHANNELS @

- · Any Device
- Netflix App
- · Word of mouth
- Online advertising
- Offline advertising
- Social Media

#### COST STRUCTURE &

- Production
- Research and Development
- Infrastructure AWS
- Marketing
- · Payment Processing Fees

Film Makers/Producers

- General/Admin

REVENUE STREAMS 141.

**DESIGN-DRIVEN INNOVATION** 



# **WAYS OF PROBLEM SOLVING**

TRADITIONAL WAY OF PROBLEM SOLVING



SOLUTION DEVELOPMENT

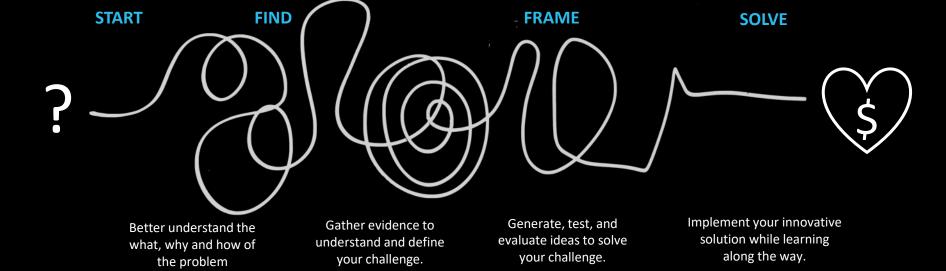


# **WAYS OF PROBLEM SOLVING**

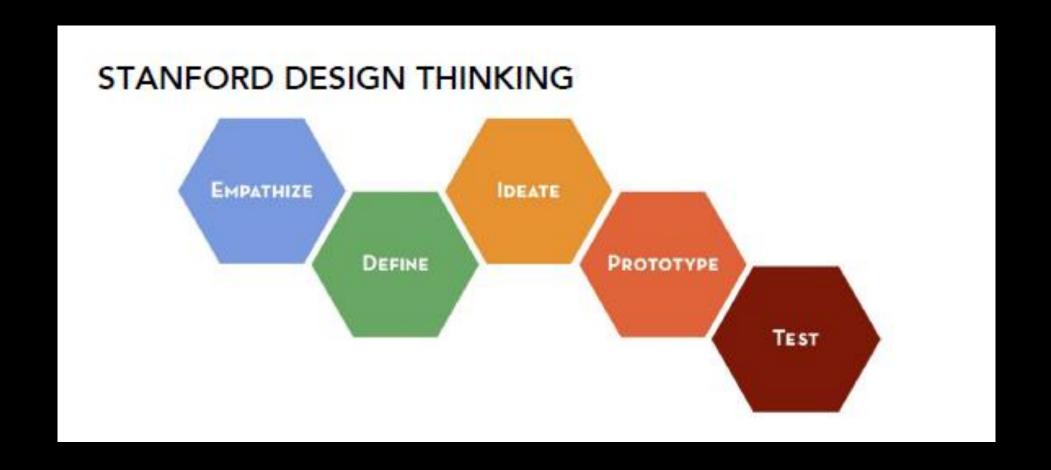
TRADITIONAL WAY OF PROBLEM SOLVING



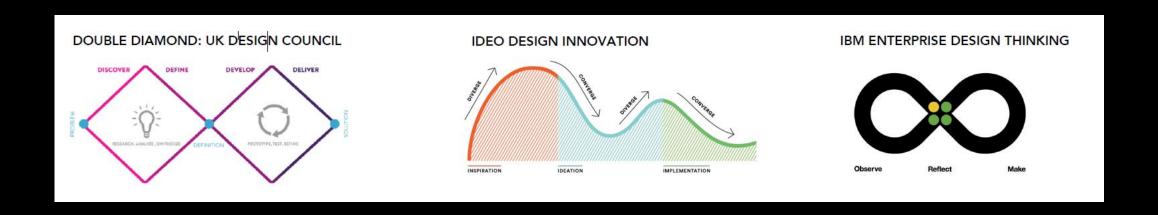
DESIGN-DRIVEN
WAY OF PROBLEM
SOLVING

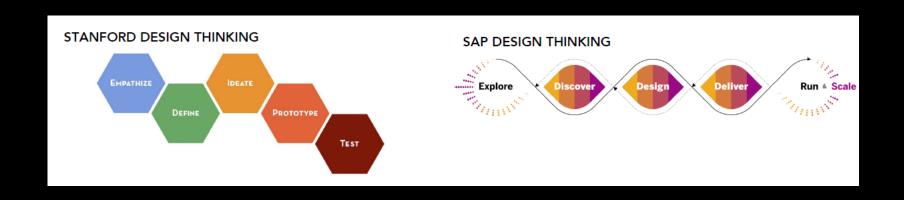


# **DESIGN-THINKING PROCESS: VERSIONS**



# **DESIGN-THINKING PROCESS: VERSIONS**





# WAYS OF THINKING: GE EXAMPLE

## **Problem: poor quality images**

Solution: new MRI scanner (technology-led) Solves image capture and diagnostics, reduces hospital costs for repeat scans.



**DESIGN AN MRI SCANNER** 

# **WAYS OF THINKING: GE EXAMPLE**

## **Problem: poor quality images**

Solution: new MRI scanner (technology-led)
Solves image capture and diagnostics, reduces
hospital costs for repeat scans.



**DESIGN AN MRI SCANNER** 

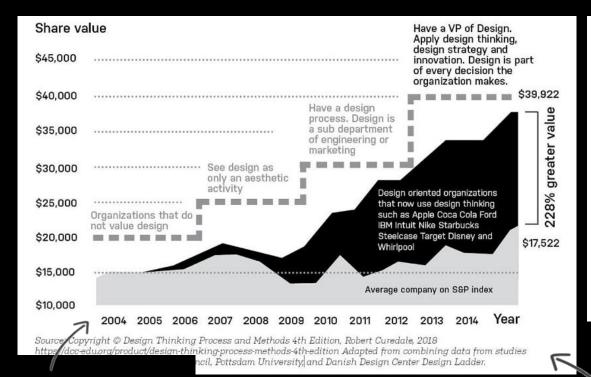
## Problem: patient movement, anxiety + sedation

Solution: a new experience (human-centered led). Solves human needs + hospital needs (cost) and creates a new service offering.

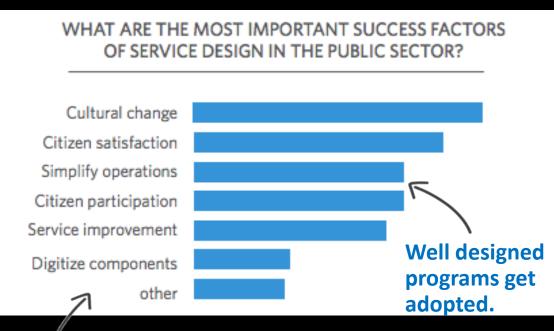


**DESIGN A BETTER MR EXPERIENCE** 

# **BUSINESS VALUE OF DESIGN: RETURN ON IMPACT (ROI)**



Well designed products sell themselves

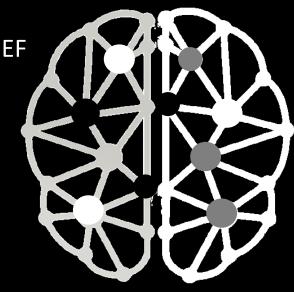


Well designed organizations adapt, drive impact + profit.

Source: https://www.mckinsey.com/business-functions/mckinsey-design/our-insights/the-business-value-of-design Source: https://www.service-design-network.org/uploads/sdn-impact-report\_public-sector.pdf

## **DESIGN THINKING TOOLS: INNOVATOR'S DECISION-MAKING TOOLS**

- PROJECT REQUIREMENTS BRIEF
- DATA ANALYSIS TOOLS
- SURVEYS + POLLS
- SPREADSHEETS
- FORMULAS
- MVP (FINAL CONCEPT)
- BLUEPRINTS
- REPORTS



- INNOVATION DESIGN BRIEF
- NEEDS ANALYSIS TOOLS
- QUESTIONNAIRES + INTERVIEWS
- FRAMEWORKS
- WHITEBOARDS
- CONCEPTS + PROTOTYPES
- CUSTOMER JOURNEY MAPS
- STORIES + SCENARIOS

ANALYTICAL (CONVERGENT) THINKING >

< CREATIVE (DIVERGENT) THINKING

## **DESIGN DASH: LET'S PRACTICE!**

## Your original business challenge is:

"How Might We (Starbucks) attract more customers to our brand?"

STEP 1: In your teams, list functional and emotional needs that your stakeholder has.

Functional = convenience, time, price, etc. Emotional = need to feel appreciated, need for motivation, etc.

Room 1 + 2: Immigrant First Year University Students

Room 3 + 4: Single Moms

Room 5 + 6: Senior Managers at a Bank

Room 7 + 8: Starbucks front-line workers

STEP 2: Reframe the original business problem based on the given format.

STEP 3: As a team, brainstorm ideas based on your revised problem statement. Vote on your best idea.

STEP 4: Draw quick sketches or describe your idea. Get ready to present (1 minute per team).

# **DESIGN DASH: LET'S PRACTICE!**

DESIGN THINKING DASH		Team / Room Number:	
1 LIST NEEDS	2 RE-FRAME PROBLEM	3 IDEATE + PROTOTYPE	
Your Stakeholder:	Initial Problem: How Might We (Starbucks) attract more customers to our brand?		
Emotional Needs (e.g., need to feel appreciated, motivated, etc.)	Reframed Problem (add your iterations here):		
	v.1: The problem we are trying to solve for		
	is their need for		
	v.2: The problem we are trying to solve for	Quick Prototype of idea	
	Is their need for	Name and Description of Idea:	
	FINAL DRAFT: The problem we are trying to solve for		
	is their need for		
	/\/		

# **SHAREBACK**



- Reframed Problem Statement
- Idea + Sketch

(1 min per team)

## WHAT ARE YOUR KEY TAKEAWAYS FROM TODAY?

# DO YOU HAVE ANY QUESTIONS?



### **THANK YOU**

Anjana Dattani, MBA Instructor - Business Design Rotman School of Management, University of Toronto.