<mark>Design Thinking</mark> for SDGs

Session 3,4 Ideate

Wednesday August 18, 2021

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Today's agenda

1) DT Step 1: Empathize

- Empathize with your P, issues in Sustainable Development
- Activity: Empathize recap
- 2) DT Step 2: Define your problem
 - Activity: How Might We question and Problem Statement
- 3) DT Step 3: Ideate
 - Find a right solution
- 4) DT Reminder: Leaving No One Behind





Today's agenda

Session 1

- 13:00 13:30 Presentation on 'problem statement' from each team
- 13:30 13:45 DT Step 3: Ideate
- 13:45 15:00 Group working session
- 15:00 15:30 Presentation on Miro from each team





Let's have a brief presentation from each team.

What is your **problem statement**?

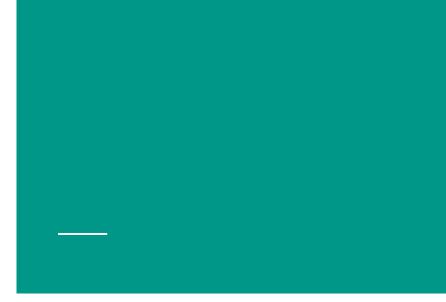
(Starting with Group 1, two minutes each)

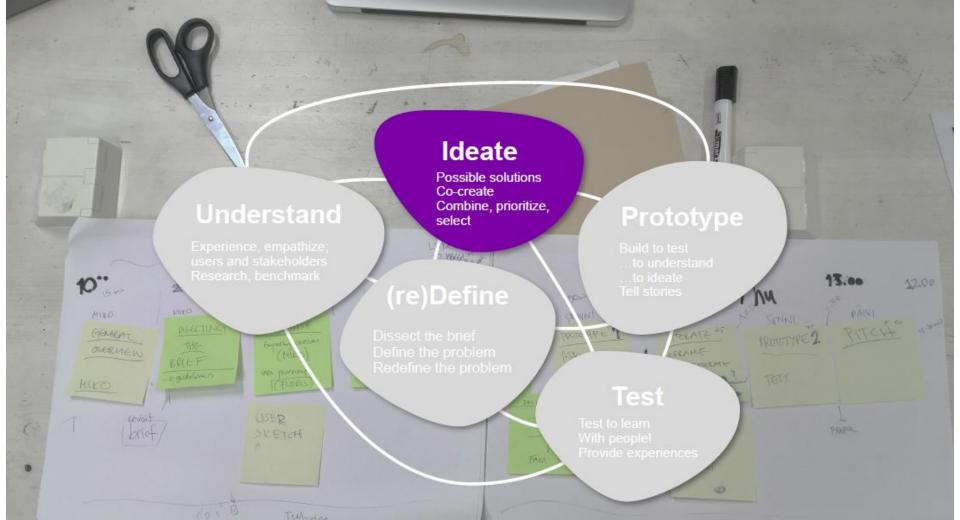


Session 1

Ideate



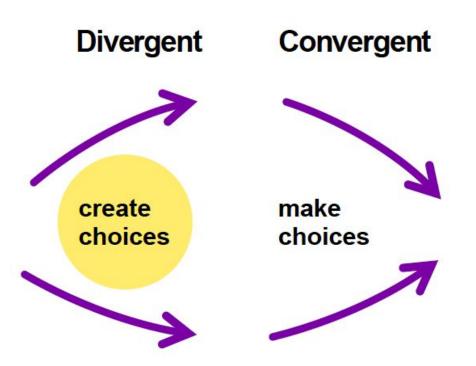






to explore a wide solution space - both a large quantity and diversity among ideas.



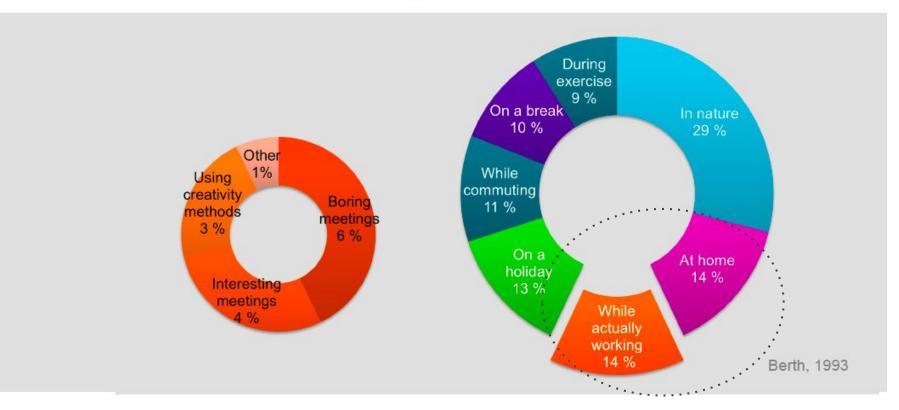




IDEATION IS MENTAL SIMULATION



Where are ideas born?



collaboration + group effort!

Even though designers have been observed to spend 85% of their time working alone, 88% of the critical situations in a design process (e.g. where the design takes a new direction as opposed to routinely pursuing the current one) occur in moments of collaboration.

Badke-Schaub and Frankenberger, 1999





Rules for ideation

1. Set a time limit

2. Start with a problem statement, possible questions(HMW), a goal and stay focused.

3. No judgement or criticism (including non-verbal)

4. Encourage weird and wild ideas

5. Aim for quantity

6. Build on each other's ideas

7. Be visual

8. One conversation at a time

Various types of ideation techniques

Typically ANY method is better than NO method!

Group vs. individual (or either) Intuitive vs. logical/directed Different medium (spoken, written, drawing, modeling)



Associative techniques Brainstorming 6-3-5 C-Sketch Bodystorming

Systematic/analytic tech.

morphological analysis TRIZ Design catalogues Attribute listing



BRAINSTORMING



Exercise: Brainstorming

- 1. Revisit your central theme (problem statement/HMW question)
- 2. Brainstorm (10 min)
 - a. How are we going to solve this problem?
 - b. 1 idea per post-it
 - c. 5+ ideas per person
 - d. Put every post-it on the Miro board
- 3. Group your ideas (20 min)
 - a. build on each other's ideas
- 4. Prioritize (10 min)



miro	Ideation 🖈 🟦 🗠 🔿							¥ 🔄	•
		Participant 1	Participant 2	Participant 3	Participant 4	Participant 5	Participant 6		
•	Write down your problem statement / HMW questions	idea 1	idea 2	Idea 3		Ξ	Ē		
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Eight Brainstorming Rules

- 1. No negativity defer judgement.
- 2. All ideas are valid at this stage.
- 3. Everyone contributes.
- 4. Every idea is welcome. Encourage wild ideas.
- 5. Build on other people's ideas.
- 6. Go for quantity. Come up with as many ideas as you can.
- 7. Take turns talking. Listen when you're not talking.
- 8. Forget the past and think about the future instead.



Idea selection is not just about choosing between ideas.

It is just as much (if not even more) about improving the ideas by combining then, taking features from other ideas to strengthen others and possibly getting even more ideas.

OK. Let's Just Do It.



In the beginning of the next session, each team will briefly pitch their solution statement



Due beginning of the 1st session Tomorrow

Slide one: sentence solution statement

Slide two or more : solution scenario that describes how your product/service can be used to solve the problem

Optional: some prototyping ideas for your solution

