Design Thinking for Mobile Solutions

03.12.2019 / Goethe University Frankfurt / Carsten Hentrich & Michael Pachmajer

What is Design Thinking?



Design Thinking is not a new innovation. It has a history of nearly 30 years



Design Thinking has an increasing relevance for corporate businesses

"Design thinking is an essential tool for simplifying and humanizing. It can't be extra; it needs to be a core competence."

Harvard Business Review. Design Thinking becomes of age. September 2015.



Being closer to the customer



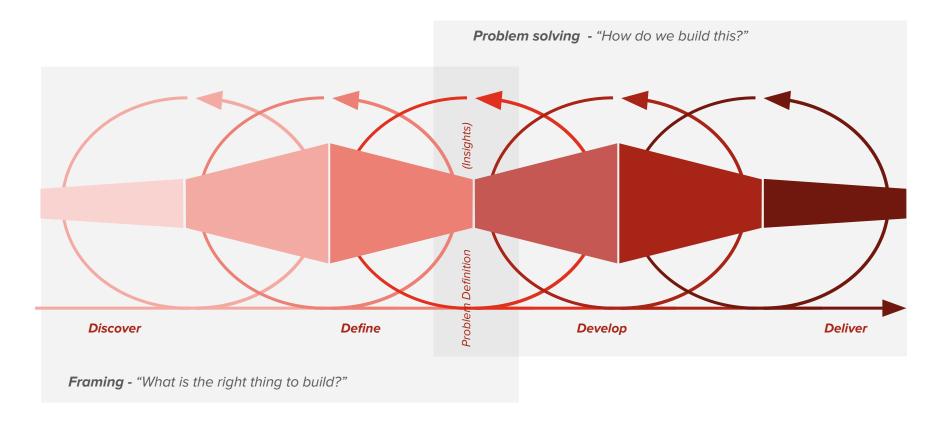


Selling highly relevant products & services

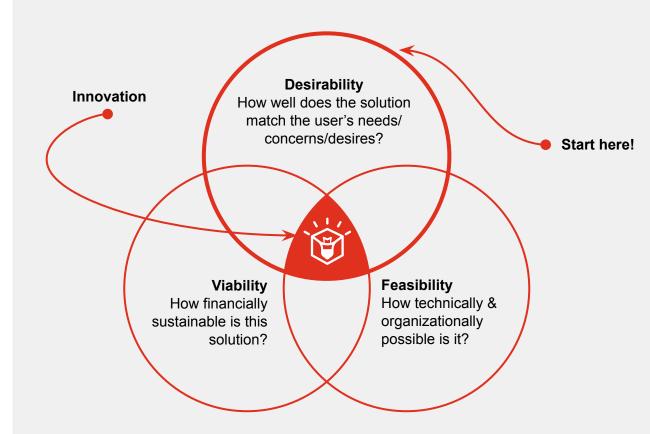


Being faster and more agile in new product & service development

The Design Thinking process can be divided into four phases, each with iteration loops



Design Thinking considers three lenses to create innovations.



Key benefits for companies using Design Thinking

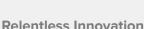
In an increasingly digital world characterized by constant changes in markets, businesses and customers, product and service innovation must be fast and agile.

Design Thinking can enable this.















Design Thinking can be used in many areas of application



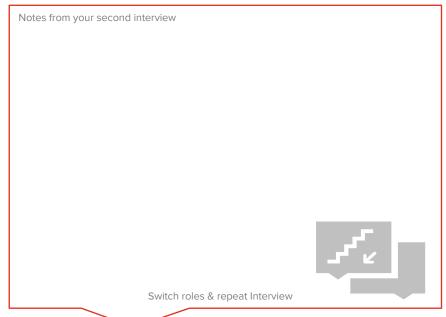


Start by gaining empathy.



2. Dig deeper

6 min. (2 sessions x 3 min. each)







Observe & Understand

Description

Gaining a clear understanding of the situation from the perspective of current and potential customers/ employees of a digital product/service.

Benefit

- Find the true motivations behind a customer's/employee's behavior
- Develop empathy as a basis for human-centered digital products or services

Prerequisites

- Knowledge about ethnographic research methods
- Interview skills
- Access to customers and other potential stakeholders







research participants who can then document their daily experiences

Reframe the Problem.

3. Capture findings

3 min.

Goals & Wishes:

What is your partner trying to achieve? (Use verbs)

Insights:

New learnings about your partner's feelings and motivations. what's something you see about your partner's experience that maybe she/he doesn't see? (Make inferences from what you heard)

4. Take a stand with a point-of-view

	Partner's name/description	
Needs a way to		
Needs a way to	User's need	
	Oser's fieed	
Because (or "but" or		



Take a stand by specifically stating the *meaningful* challenge you are going to take on.

This is the statement that you're going to address with your design, so make sure it's juicy and actionable!



Synthesize

Description

Drawing conclusions from research or prototype testing by sharing observations across the team, cluster the information and finally **condense to insights**.

Benefit

- **Simplify and frame** complex and intangible processes/problems
- Narrow down to core content

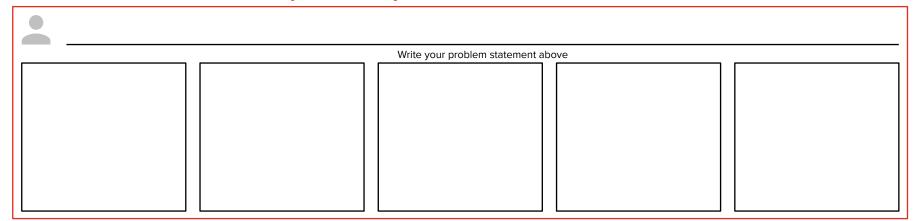
Needed tools and outcome

- A lot of post-it notes to write down observations, findings, etc.
- Whiteboards
- Outcome: Point-of-View statement



Ideate: Generate alternatives to test.

5. Sketch at least 5 radical ways to meet your user's needs. 5 min.



6. Share your solutions & capture feedback. 10 min. (2 sessions x 5 min. each)







Ideate

Description

Generating various solution concepts of potential digital products or services by combining gathered insights and facts with imagination and creativity.

Benefit

- Quick and structured idea generation
- Get to know the different perspectives on one topic at once
- Go beyond obvious solutions

Setting

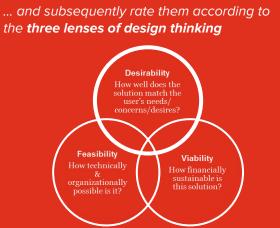
- · Space for creativity
- Clear rules
- Strict time management



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"It's not about coming up with the 'right' idea, it's about generating the broadest range of possibilities.

HASSO PLATTNER INSTITUTE OF DESIGN AT STANFORD



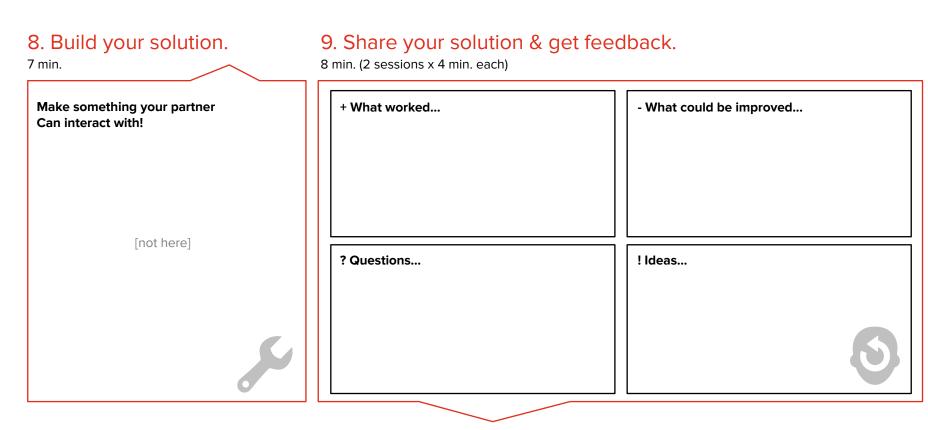
Iterate based on feedback.

7. Reflect & generate a new solution. 3 min.





Build & test.







Prototype

Description

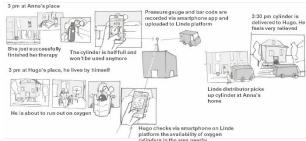
The prototype is an **early model or experiment** to rapidly create solutions to identified challenges and problems.

Benefit

- Make any business model, product or service idea tangible and visualized
- **Test** it with the potential customers or employees

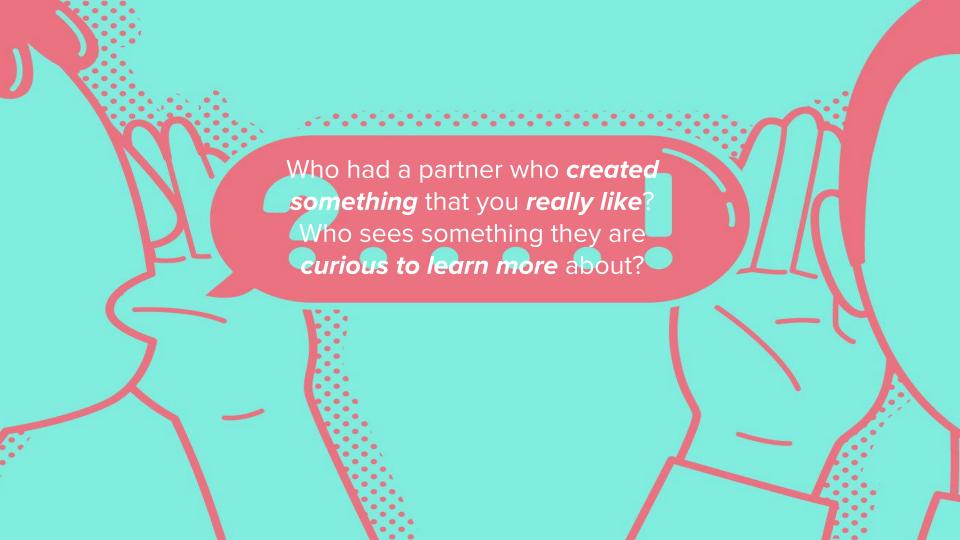
Needed material

- Apps like Spark or LEGO® Movie Maker
- Paper & pencils
- · Other arts & crafts material
- Divers physical artifacts like
- Others









Test

Description

Bring prototypes and first ideas in a context with stakeholders and their environment for quick evaluations. The context (who and where) is very crucial.

Benefit

- Get feedback from people inside/outside the development team
- Testing allows to find flaws early and improve them in further iterations

Needed material/tools

- Create prototype to be tested (and device to show with)
- Create a test plan (what exactly to test and how)
- · Stakeholders & location to test with



An agile, iterative approach created the required momentum for digital business model innovation across the company

Transformation Program Approach – Agile Business Development

