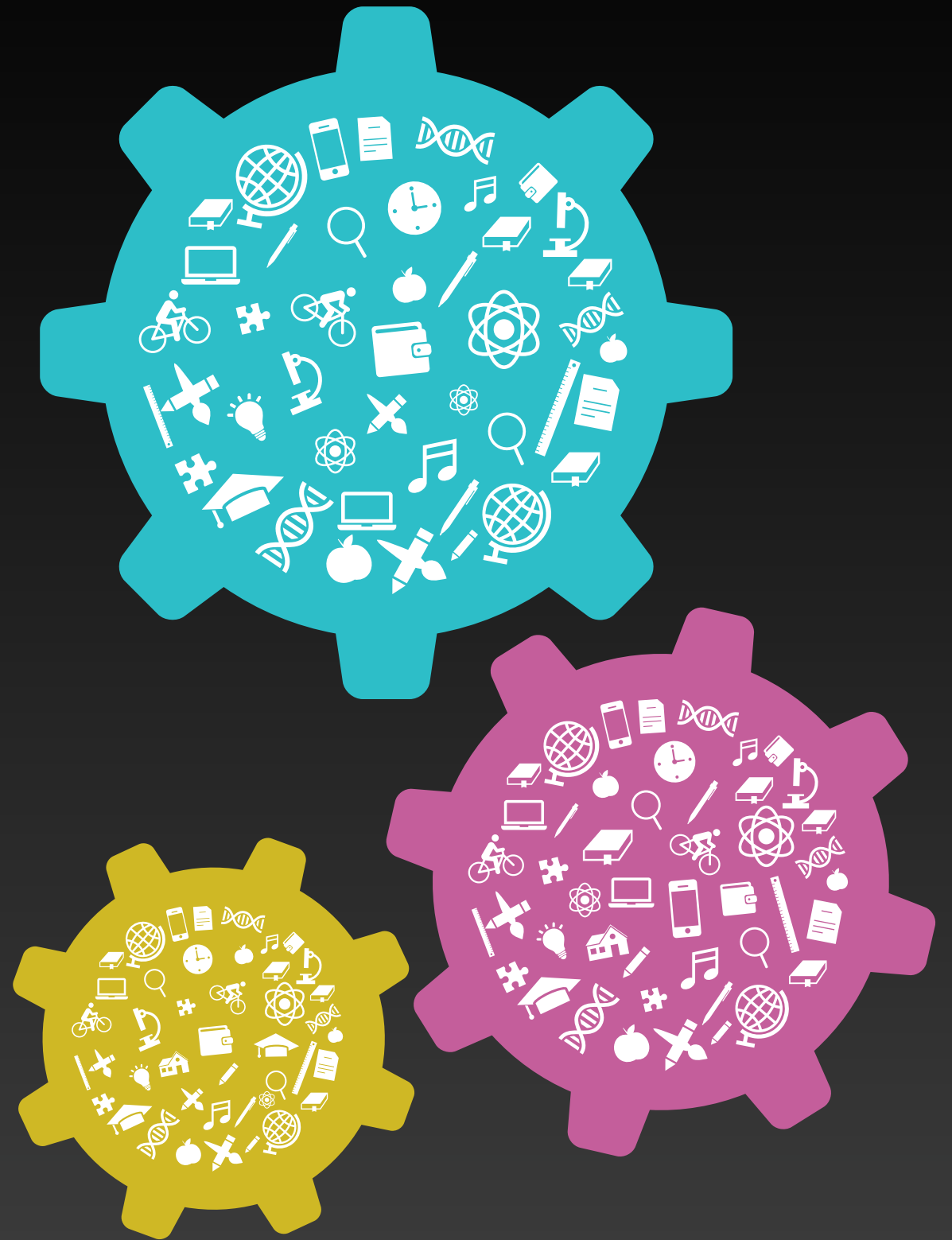


A CRITICAL INTRODUCTION INTO DESIGN THINKING



Prof. Dr. Ingo Hamm

Darmstadt University of Applied Sciences

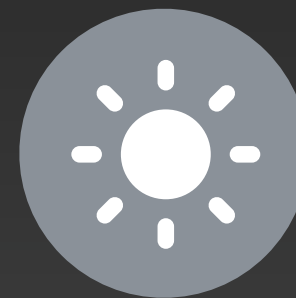
A radically new approach for innovation is...

„Think like a designer!“

Making existing
products more
attractive



Creating ideas
that better meet
customer needs



Source: Tim Brown (2008), „Design Thinking“, HBR

„Think like a designer!“



Source: „H tour“, hinterher.com / Bundespreis EcoDesign 2015

Example: ultra-convertible, but simplistic trailer

h_da

The essence of Design Thinking

Design Thinking

„...is a **human-centered** approach to innovation ...

to integrate the **needs of people**

the **possibilities of technology**,

and the requirements for **business success.**”

Tim Brown, IDEO

Case Example „Shimano“ for Design Thinking



Source: Bikeworks Albuquerque (2007)

Example: cycling as a high-tech world for geeks only

h_da

Case Example „Shimano“ for Design Thinking



Example: the new idea for a very casual low-tech-bike

h_da

The Design Thinking workshop concept



Typical actions during a workshop

What can YOU take away?

DESIGN THINKING PROCESS...

„Situation, complication, solution“ - no solution with a compelling problem

Forget brainstorming - creativity needs good preparation and honest feedback

Leave the academic world - embrace craftsmanship

Some valuable tools with and beyond Design Thinking



- **Customer Journey Map**

- _ Understanding customer experience along all touchpoints
- _ Visualization of customers' behaviors, thoughts and feelings

Some valuable tools with and beyond Design Thinking



Example: Customer Journey Map

Some valuable tools with and beyond Design Thinking

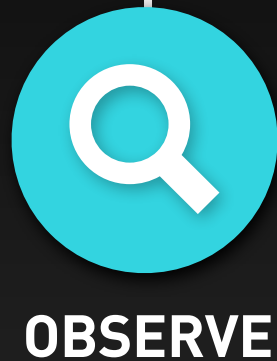


OBSERVE

- **Qualitative customer insights**
 - _ In depth interviews with psychological approach (projective tasks...)
 - _ Participant observer
 - _ Shadowing
 - _ „Delphi approach“: iterative expert interviews

Insights by asking „why“ instead of „how much“

Some valuable tools with and beyond Design Thinking



- **User Stories**
 - _ „As a <type of user>, I want <some goal> so that <some reason>“
- **Story Telling**
 - _ Telling and illustrating customer insights
 - _ Comic strips, Video Clips, Role Play, articles...
- **„Personae“**
 - _ Illustrating a typical customer

Key success factors of Design Thinking

Collaborative, open,
optimistic and diverse

Different perspectives



TEAM

Rather a workbench
than a meeting room

Get out (of business)



SETTING



PROCESS

Time, please!

„Be so fast that you don't
fall in love with ideas“

TOOLS



Thinking with hands

Be concrete, not
necessarily perfect