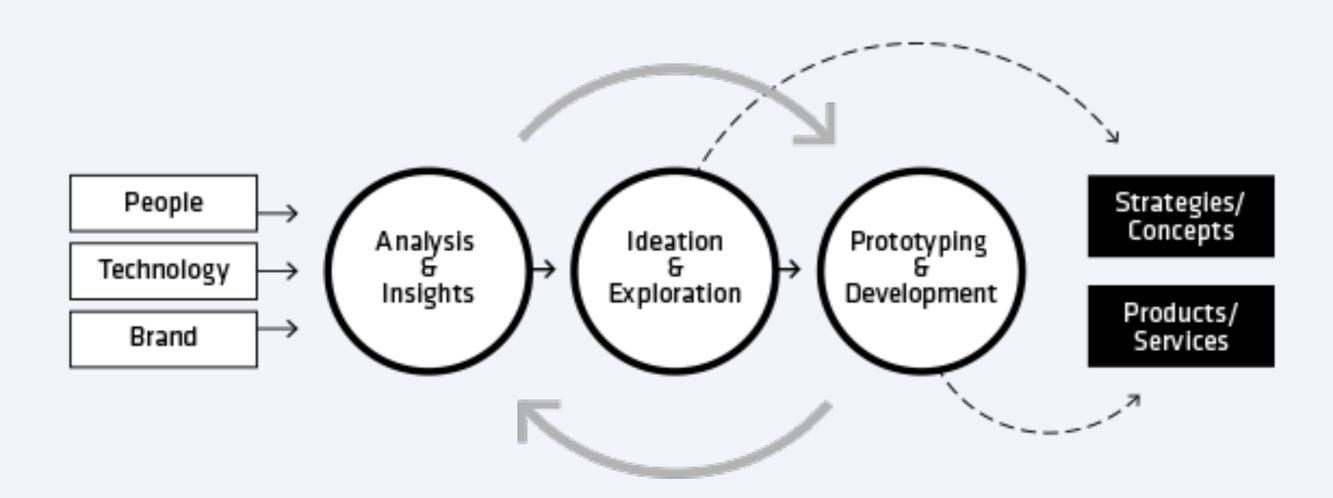


21.11.16 Designworkshop II

Deliverable 2: Presentation Concept

PROTOTYPING

Human Centered Design - Process



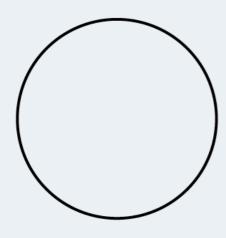
WHY PROTOTYPE?

// Validate and improve new ideas and test initial assumptions // Make an idea tangible to share with and convince others

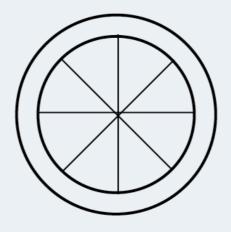
BENEFITS

- // Low resource and time investment
- // Faster feedback and a participatory approach
- // Early Validation in the development life-cycle

Fidelity v. Resolution



low resolution low fidelity



high resolution low fidelity



high resolution high fidelity

Low Fidelity

High Fidelity

Open Discussion

Sharp Opinions

Prompting Required

Self Explanatory

Quick and Dirty

Deliberate and Refined

Early Validation

Concrete Ideas

Low Resolution

High Resolution

Less Details More Details

Focus on core interactions Focus on the whole

Quick and Dirty Deliberate and Refined

Early Validation Concrete Ideas

JUST ENOUGH PROTOTYPING

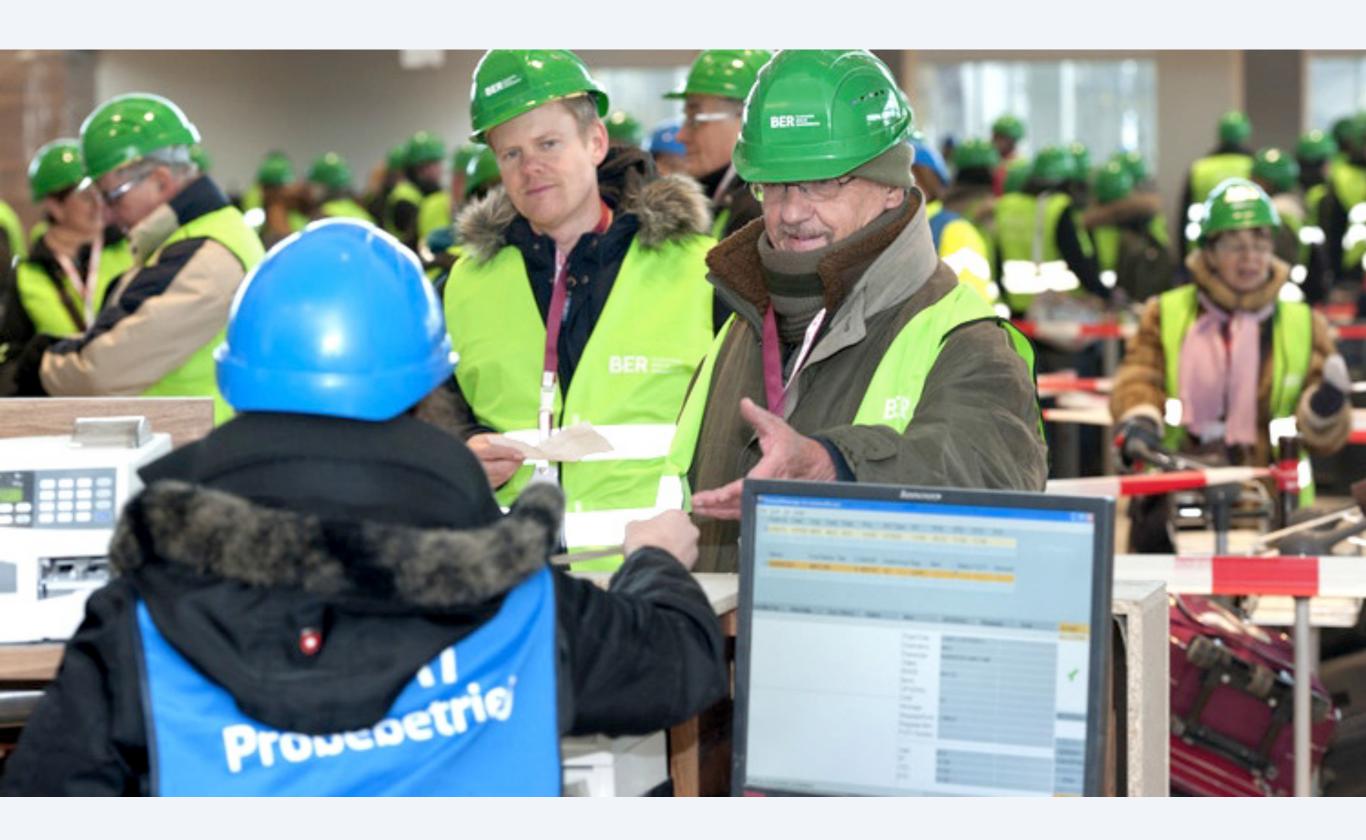
A prototype can be a result. Often, it is **a** working tool during the course of a process.

As with any other working tool, **perfection is not necessary**. It only needs to help you **achieving the next step**.

JUST ENOUGH PROTOTYPING

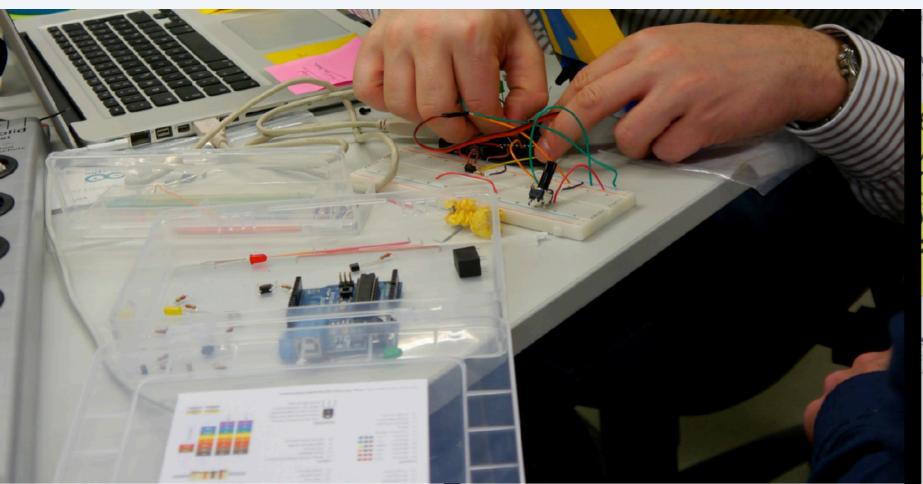
To find the right fidelity and resolution, ask yourself:

- // Who is your audience and what level of fidelity/ resolution do they need to understand (and potentially judge)?
- // What ressources do you have available?
- // How much time to you have available?
- // What practicalities do you need to respect (e.g. transportability, replaceable parts, etc.)?



PHYSICAL THINKING: DEVELOPPING IDEAS THROUGH PROTOTYPING

HANDS-ON INNOVATION WORKSHOP IXDS FOR VOLKSWAGEN

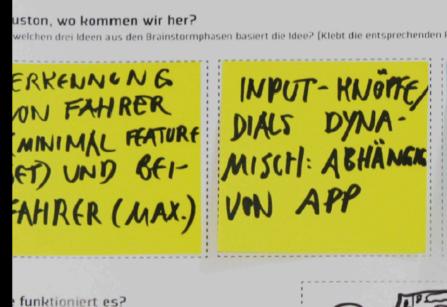


CHALLENGE

"Thinking with the material" is a traditional way to approach design. VW asked us to facilitate this approach – but using interactive electronics and sensors.

APPROACH

We conducted a one-day hands-on workshop on electronics, interleaved with brainstorming sessions related to the technology and to relevant directions in academic research.



hreibt in ein paar Schritten wie Eure Idee funktioniert.

HIGH SPEED, WEL STRESS

RESULT

hen Namen trägt Eure Idee?

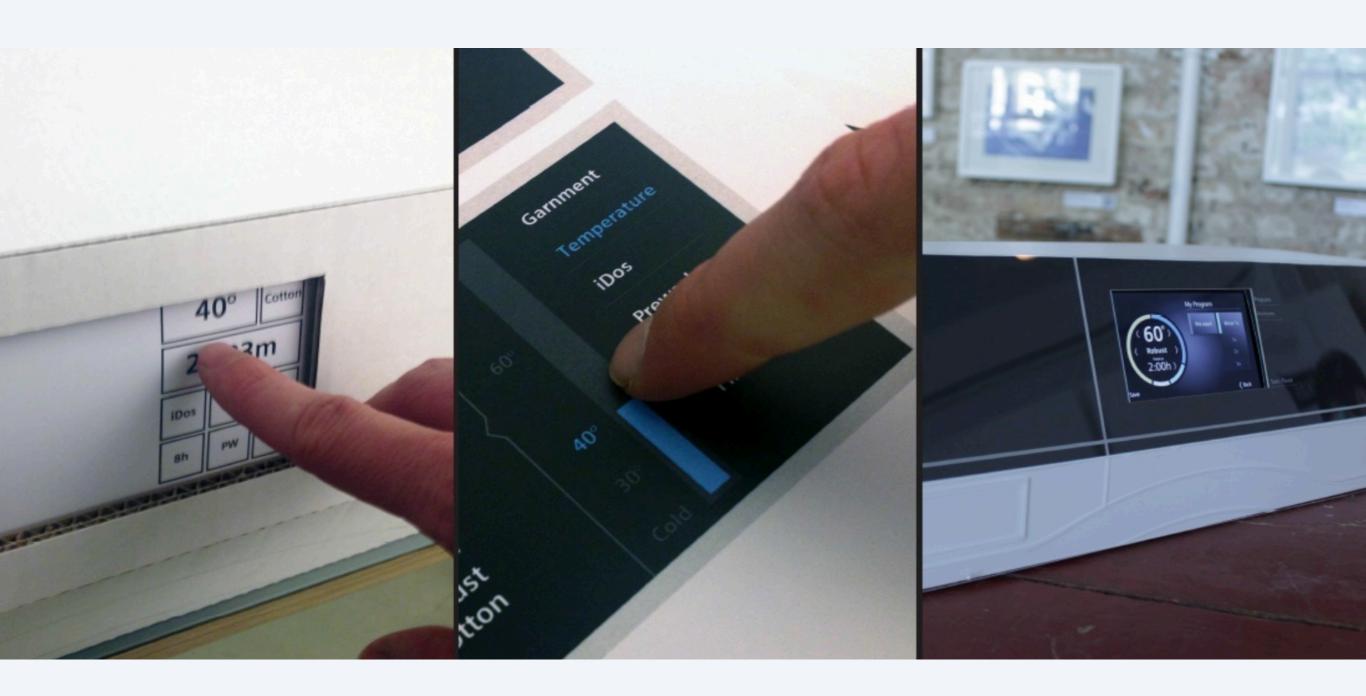
Not only did the participants get a feel for how to work creatively with electronics, they identified 3 areas for innovation which they are now focusing on.

LANGSAM, LOW STRESS

- KEMDI

PAPER OR CODING? THE MOMENT IN THE PROCESS DEFINES THE FIDELITY

FROM LOW- TO HIGH-FIDELITY



JUST ENOUGH PROTOTYPING

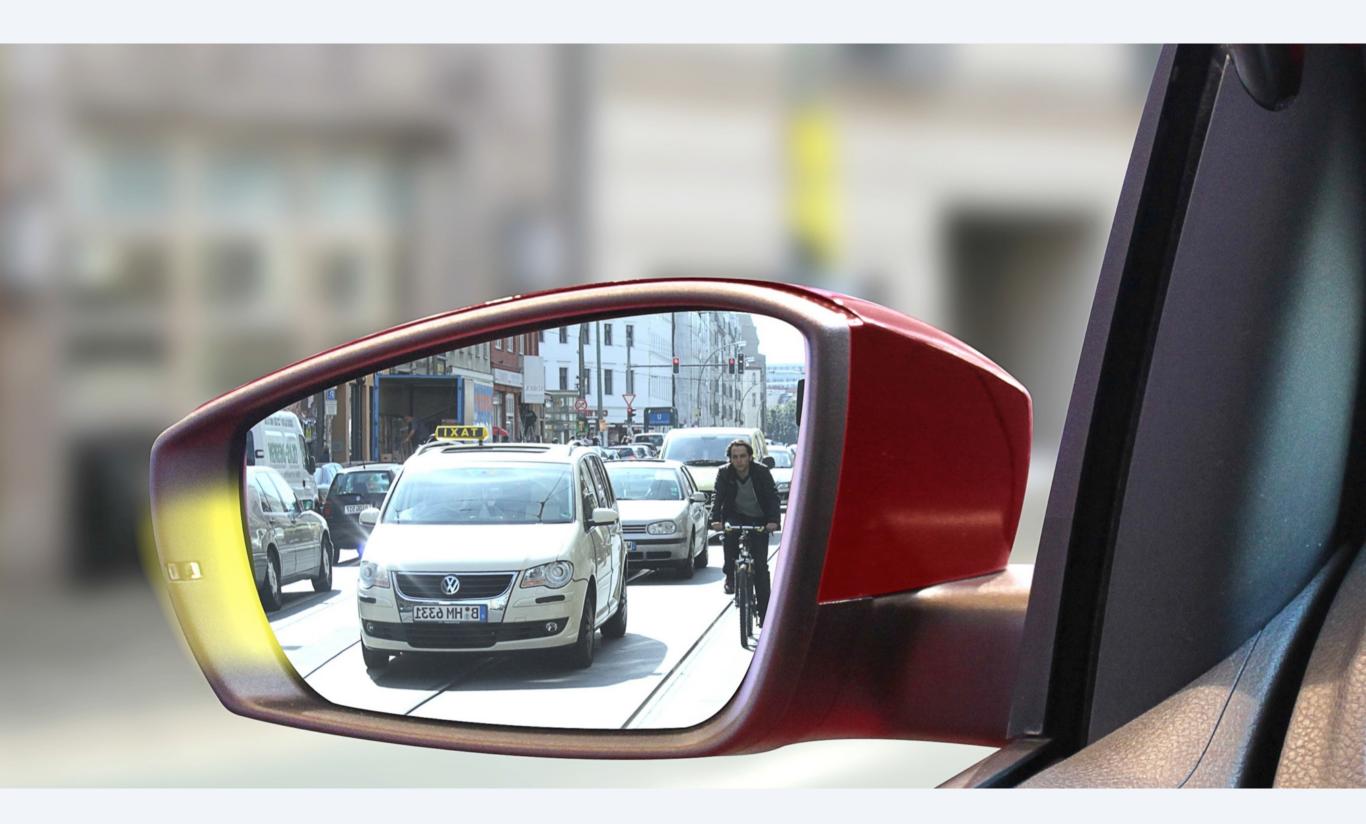


LOW-FIDELITY PROTOTYPES VISUALISING IDEAS



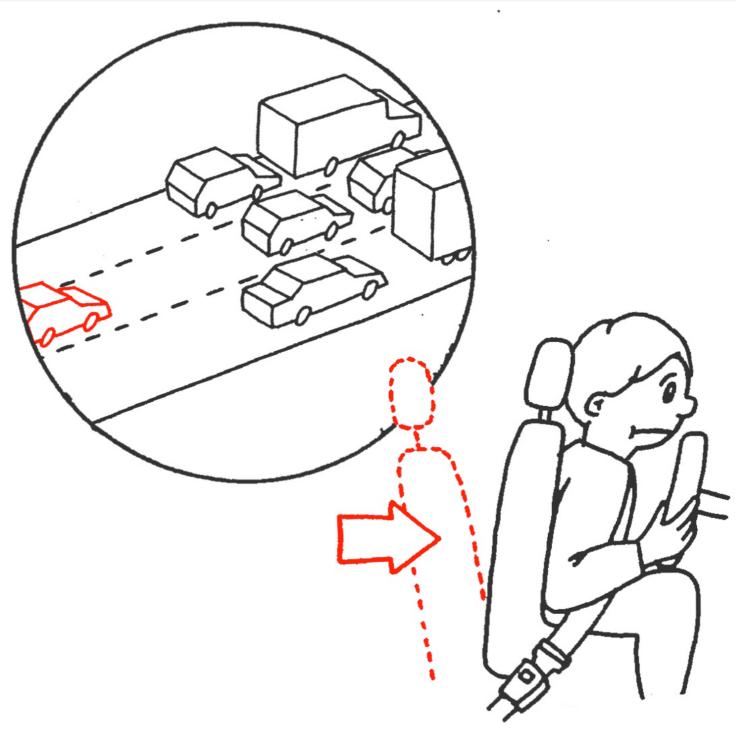
EXPERIENCING AN IDEA: EXPERIENCES AREN'T DESIGNED IN THEORY

AMBIENT INTERACTIONS IXDS FOR VOLKSWAGEN

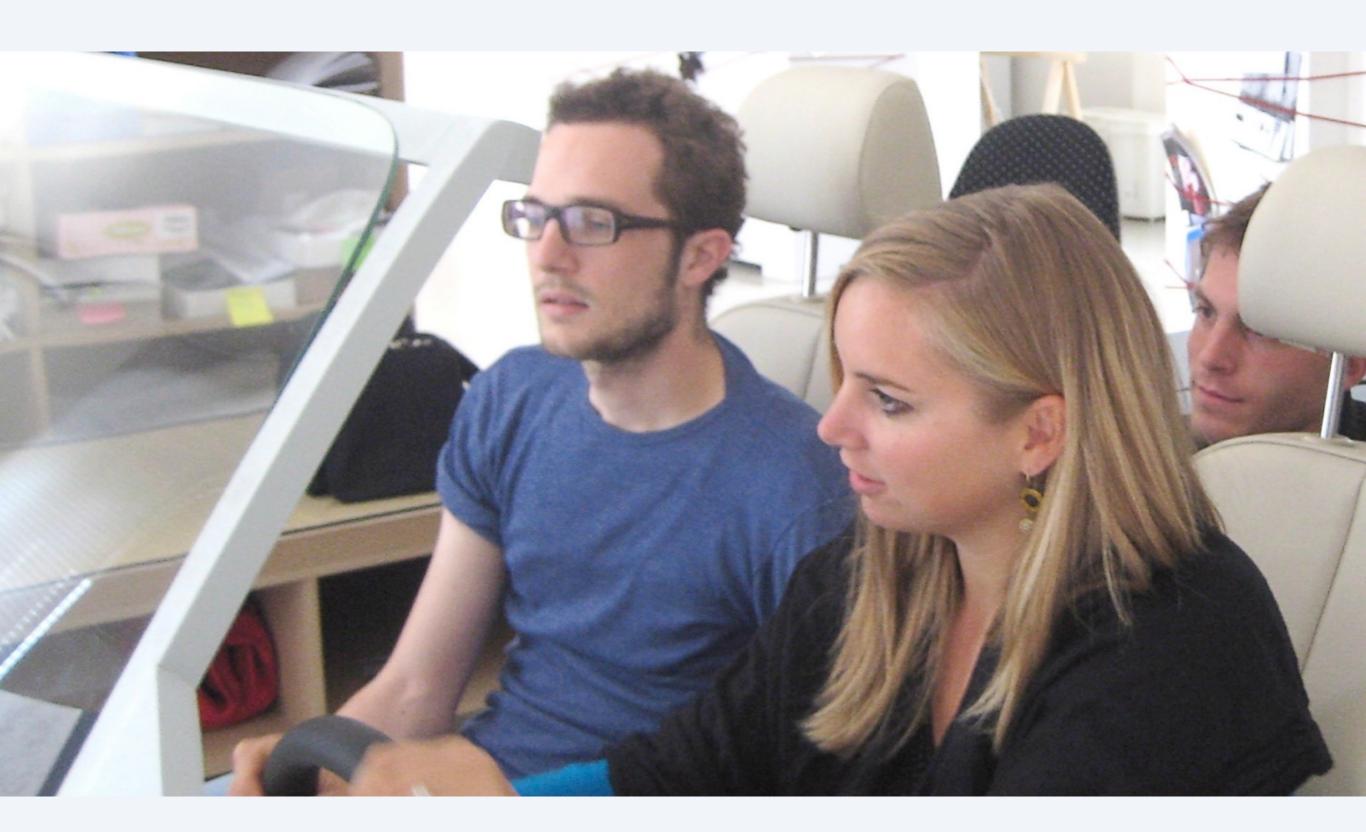


LOW-FIDELITY PROTOTYPES VISUALISING IDEAS



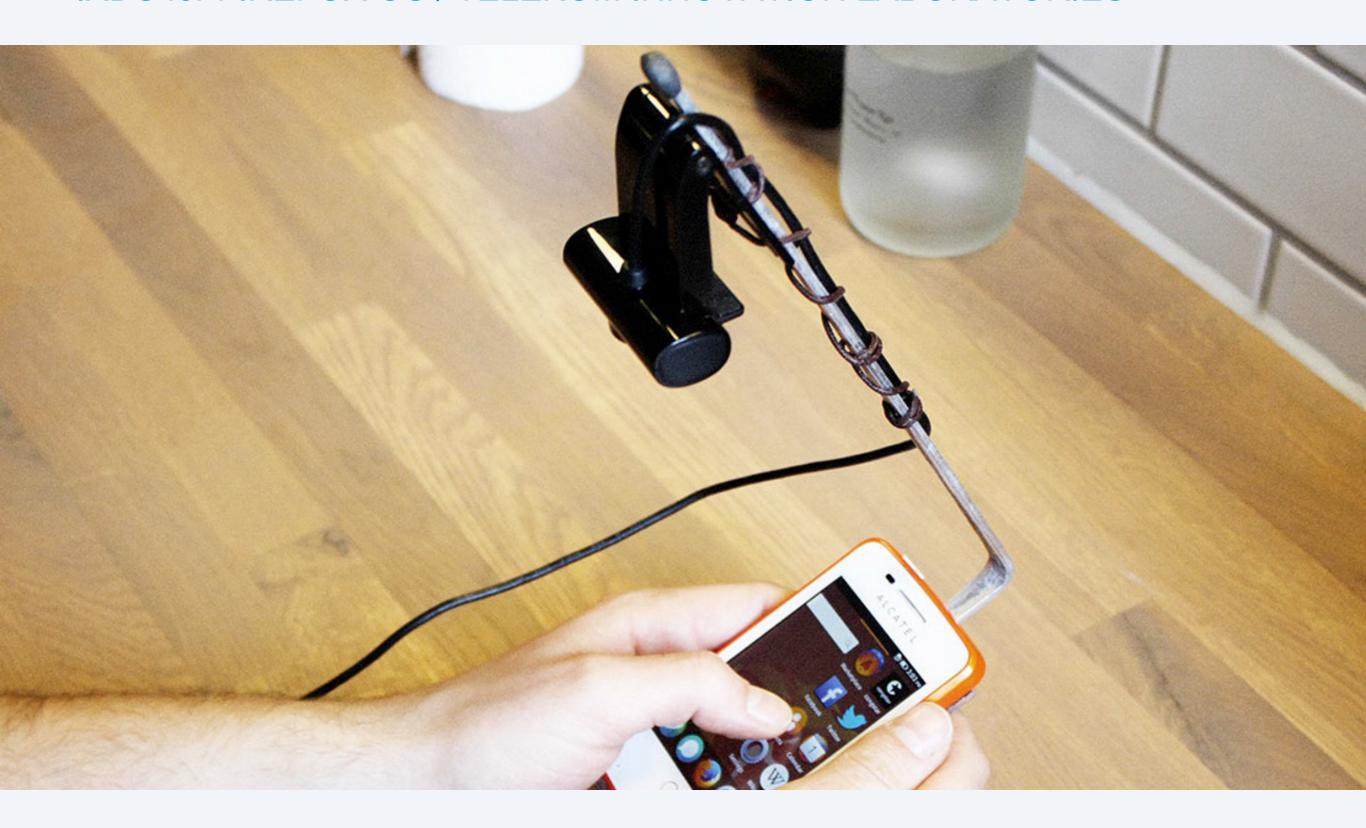


LOW-FIDELITY PROTOTYPES VISUALISING IDEAS



IN CONTEXT: ONLY TESTING DONE IN THE ACTUAL CONTEXT WILL DELIVER REAL FEEDBACK

Firefox OS – User Experience Studie IXDS for FIREFOX OS / TELEKOM INNOVATION LABORATORIES

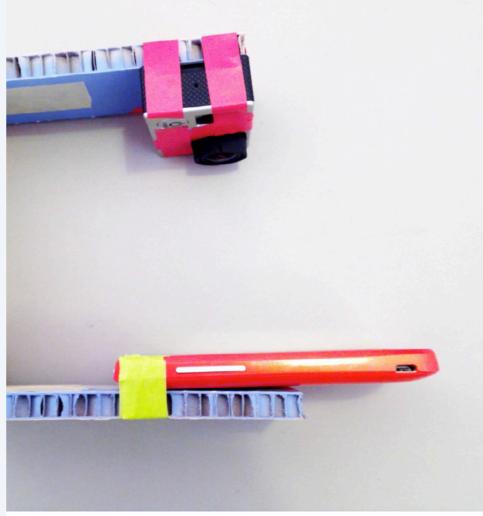


Firefox OS – User Experience Studie IXDS for FIREFOX OS / TELEKOM INNOVATION LABORATORIES



CHALLENGE

Understand how first time users of Firefox OS perceive the new operating system and how this perception evolves over a period of 3 weeks. Identify differences between users who already have experiences with smartphones and first time users who own a feature phone.

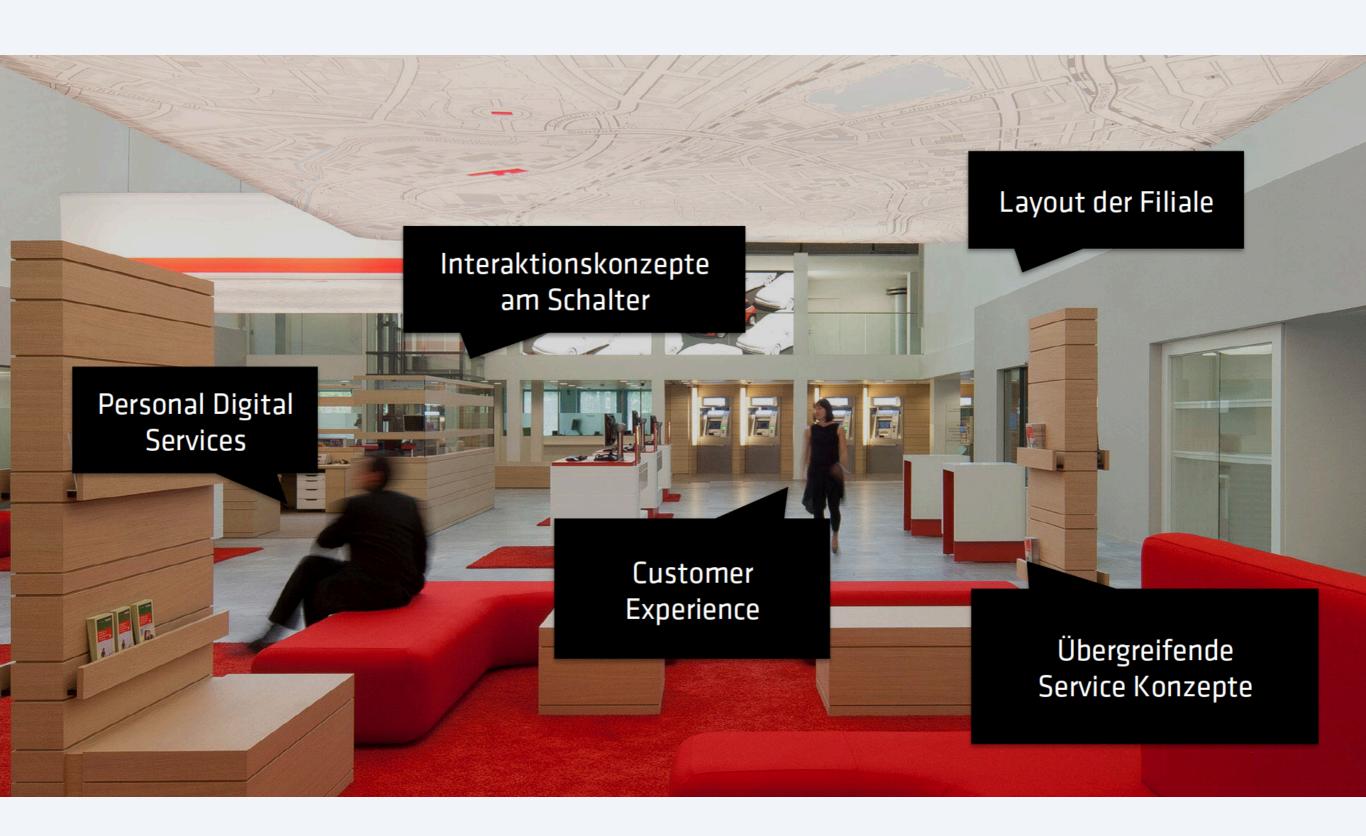


APPROACH

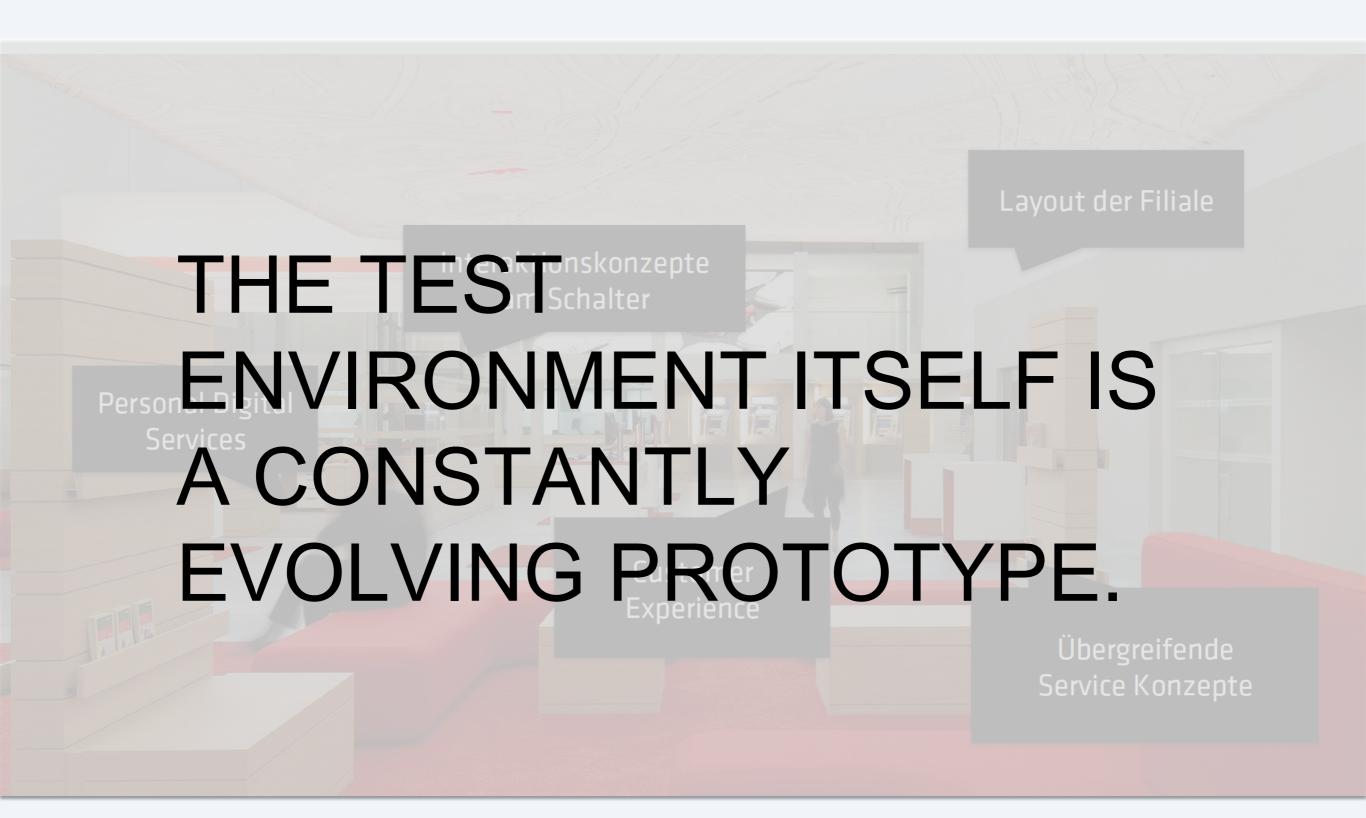
We captured the first experience of using the phone, then let participants use and explore it over 3 weeks. We compared how user behavior and perception changed during and after this period compared to users' initial perception.

LIVE PROTOTYPING: TESTING IDEAS IN REAL AND ADAPTIVE ENVIRONMENTS

TESTING IN REAL ENVIRONMENTS: TESTFILIALE BANK



TESTING IN REAL ENVIRONMENTS: TESTFILIALE BANK

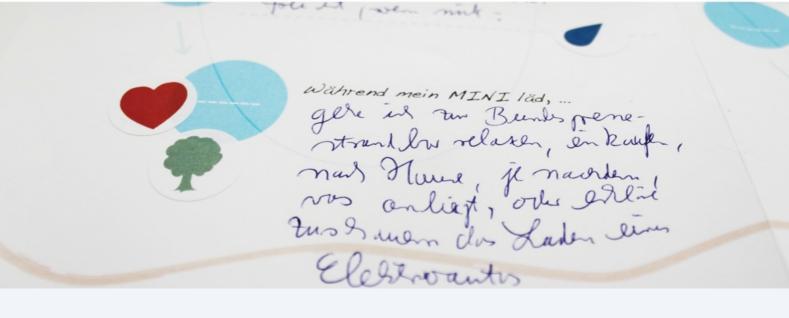


USER TESTING

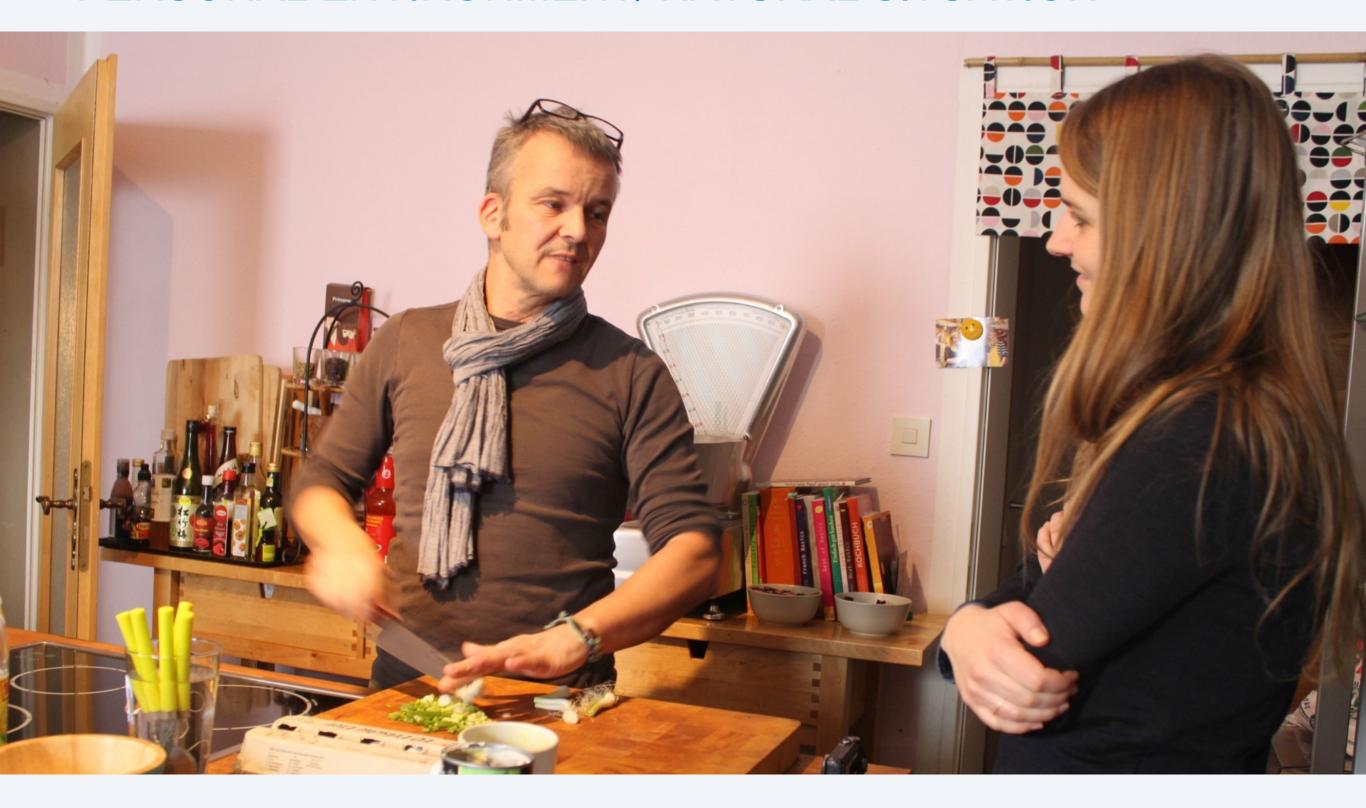
SELF-DOCUMENTATION







PERSONAL ENVIRONMENT/ NATURAL SITUATION



Milestones & Deliverables: Concept

Concept Development

07.11.16 Review Concept

14.11.16 Review Concept

21.11.16 Deliverable 2: Presentation Concept with Storyboard & Planning of Prototyping



Milestones & Deliverables: Low-Fi Prototyping

Low-Fidelity Prototyping

28.11.16 First Draft Prototype & User Test Planning

05.12.16 Review Results User Testing & Concept Iteration

12.12.16 **Deliverable 3**: Low-Fidelity Prototype based on User Feedback

12/12 Low-Fi Prototype & User
Testing

October November Dezember January

Until 28.11.16

- Refine your concept
- Create a low-fidelity prototype that allows to test the major parts of your concept
- Show a plan how to do user testing: with whom? In what situation? For how long? What is your goal for the testing? Methods, questionnaires etc.

Questions?