# Redesign of a mobile oxygen tank for medical purposes

proposal presentation

benjamin voss | 15 february 2008

#### about me

Industrial Design grad student

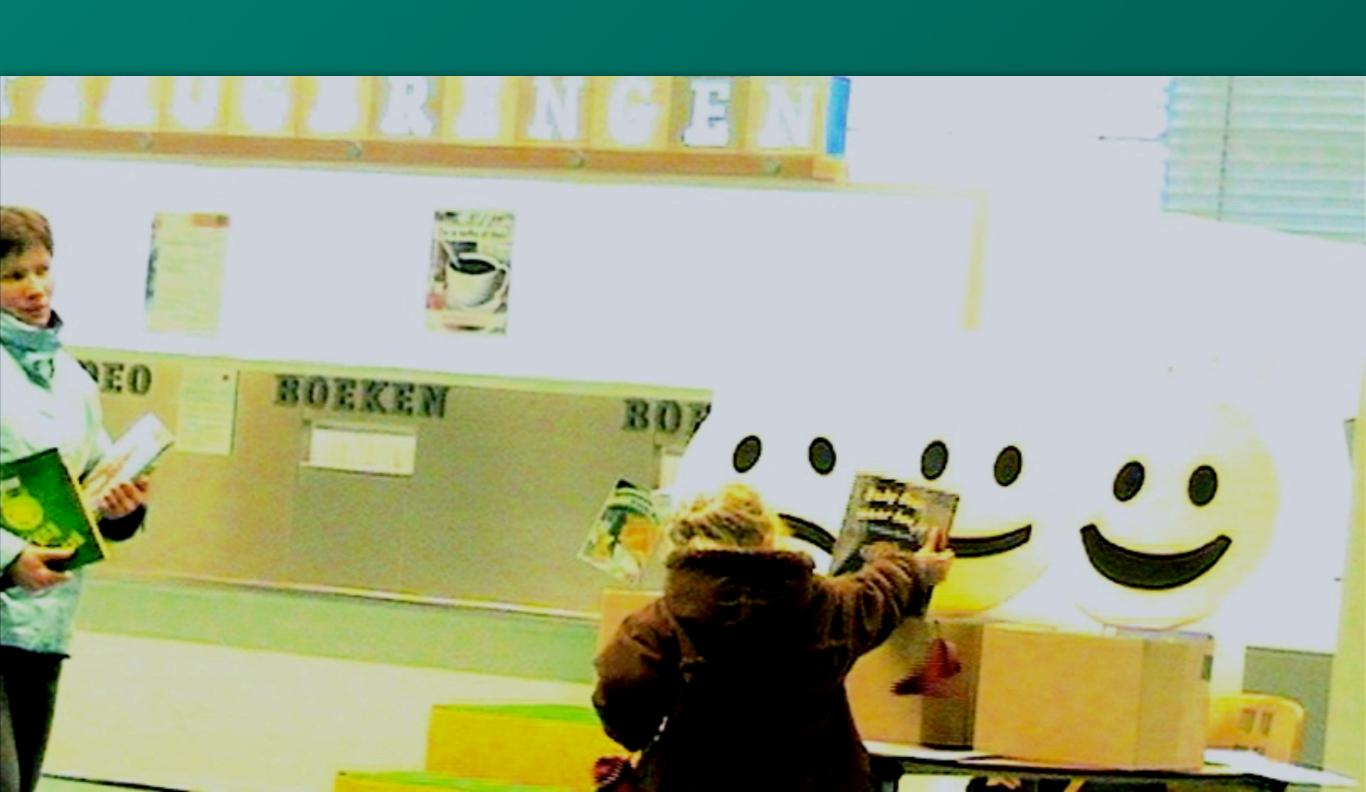
Eindhoven University of Technology, The Netherlands





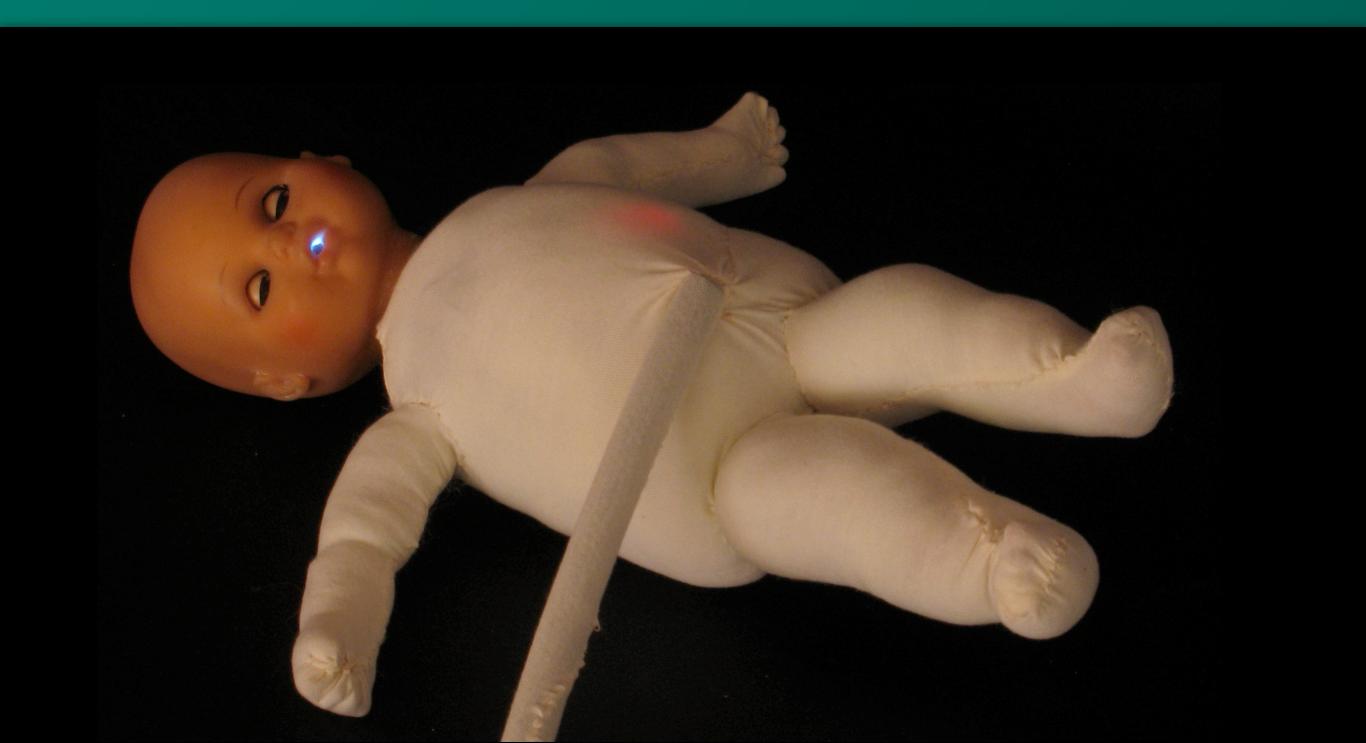
#### about me

design for public institutions



#### about me

design for public institutions
experience with projects for hospitals





#### project goal

'Design a mobile oxygen tank for medical purposes that fits seamlessly into the transport process and that communicates its state to the various stakeholders more effectively than the current design.'



#### project aim

To change part of the patient's and nurse's view on the hospital context

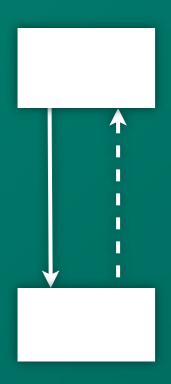
5 months project



5 months project

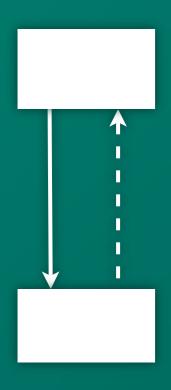
user research

5 months project



opportunities for – improvements
user research

5 months project



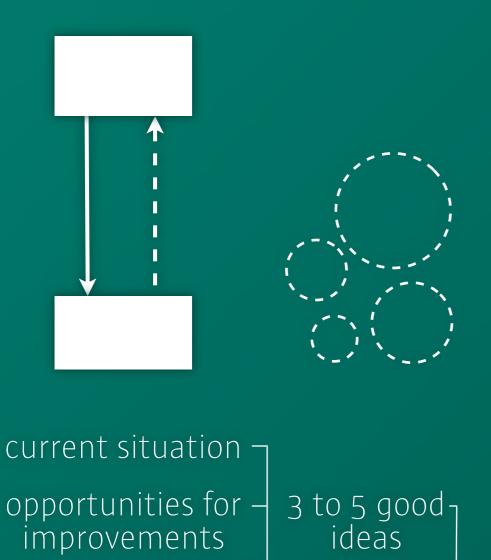
current situation – opportunities for – improvements

user research

ideation

user research

5 months project

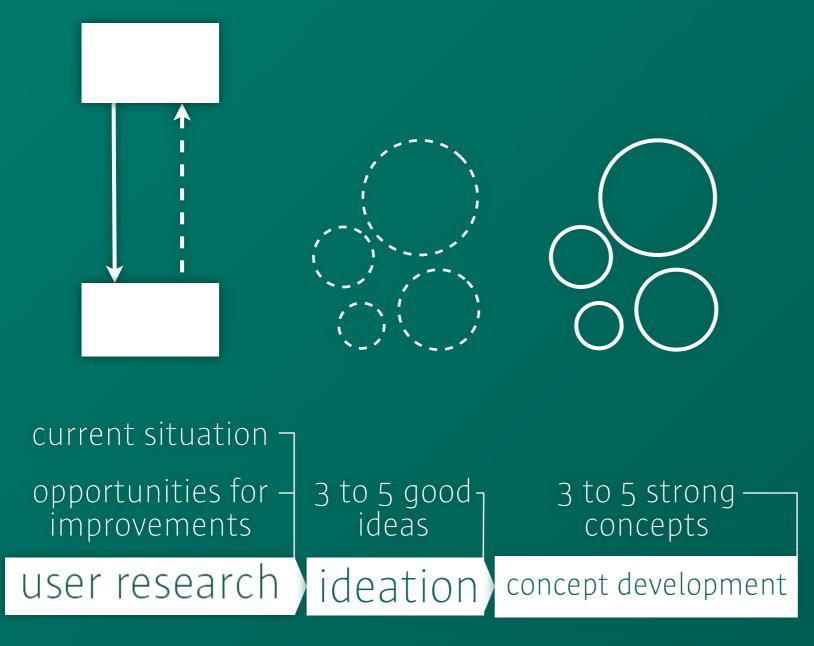


ideation

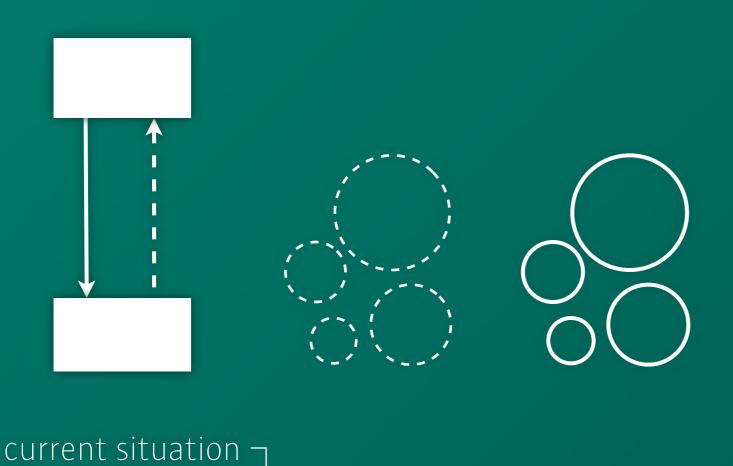
5 months project



5 months project



5 months project



opportunities for – improvements

user research

3 to 5 goodideas 3 to 5 strong concepts

ideation

concept development

concept realization

February

March

April

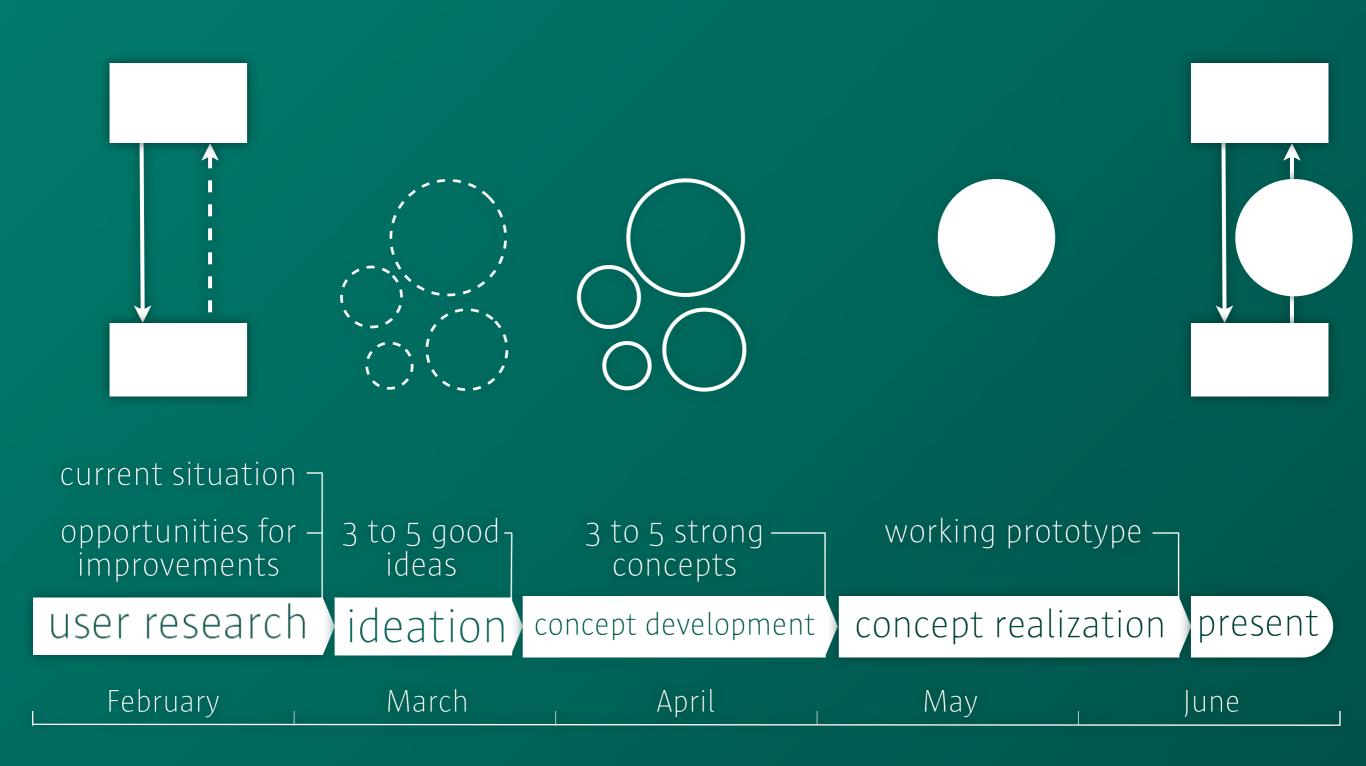
May

June

5 months project



5 months project



#### methods

observation



#### methods

patients: diaries



user research ideation

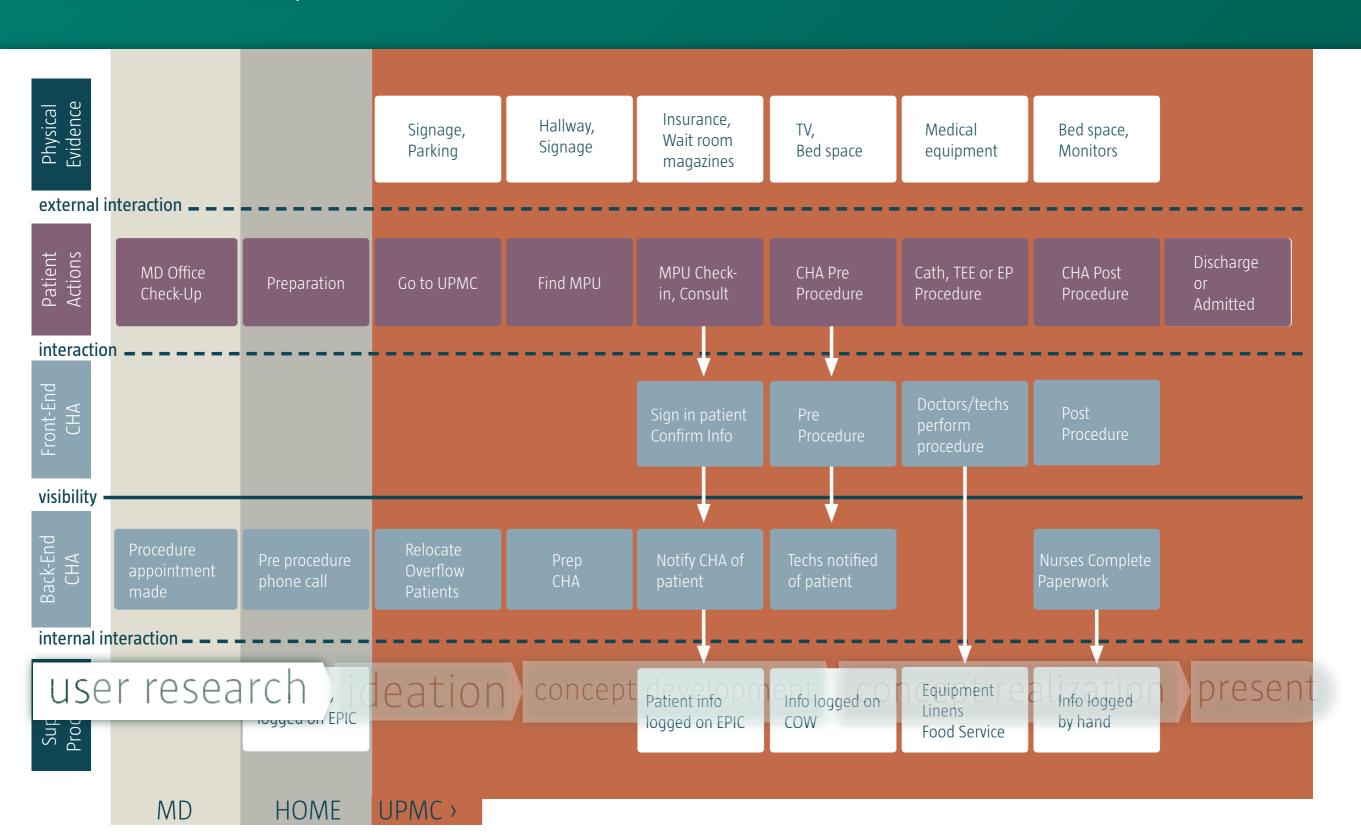
#### methods

nurses: contextual inquiry



#### results

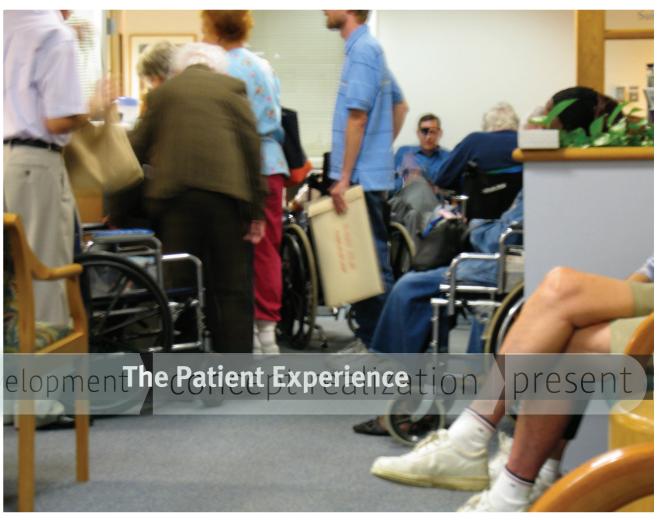
#### service blueprint



#### results

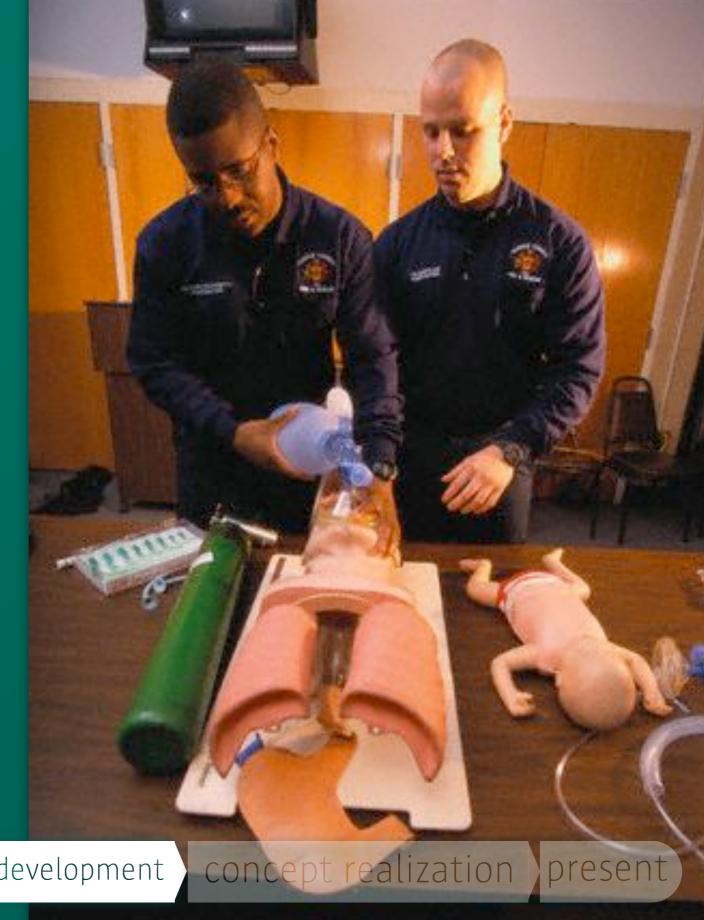
scenario





#### decision moments

presentation of concepts to research participants



user research ideation

concept development

#### decision moments

presentation of final prototype at the hospital



#### my questions to you (1/2)

who use this product?

where do they use it?

how long do they use it?

how long before it gets empty?

who produces it?

who is responsible for maintenance?

who is liable?

#### my questions to you (2/2)

should I apply for a University of Pittsburgh IRB approval? where should I apply for photo and video permission? could you help me complete a UPMC badge request form? which UPMC branch(es) is/are suitable for research?

thank you