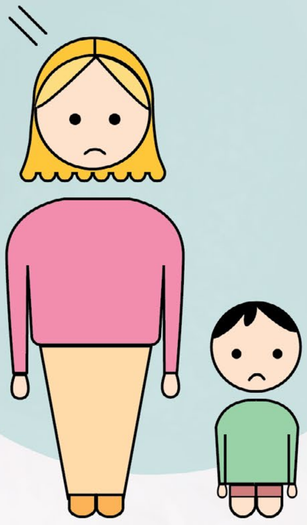
SNASK

Empowering the child to make his own food choices

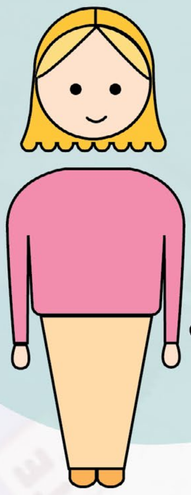
PROBLEM STATEMENT

Empowering children with diabetes to make their own food choices



TODAY

Parents are always worried
Child feels overwhelmed by their parents



TOMORROW

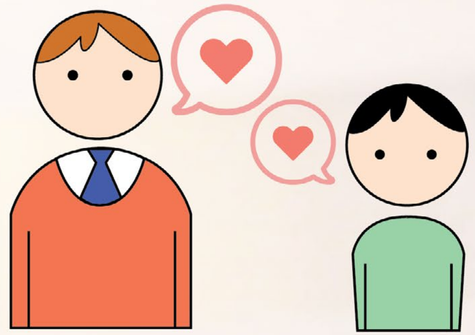
Child gradually learns how to control his diabetes
Parents feel more relaxed

EMPOWERING

Supporting the child to take control of his disease

MONITORING

Keeping parents informed about their child's health, providing recommendations about insulin dose

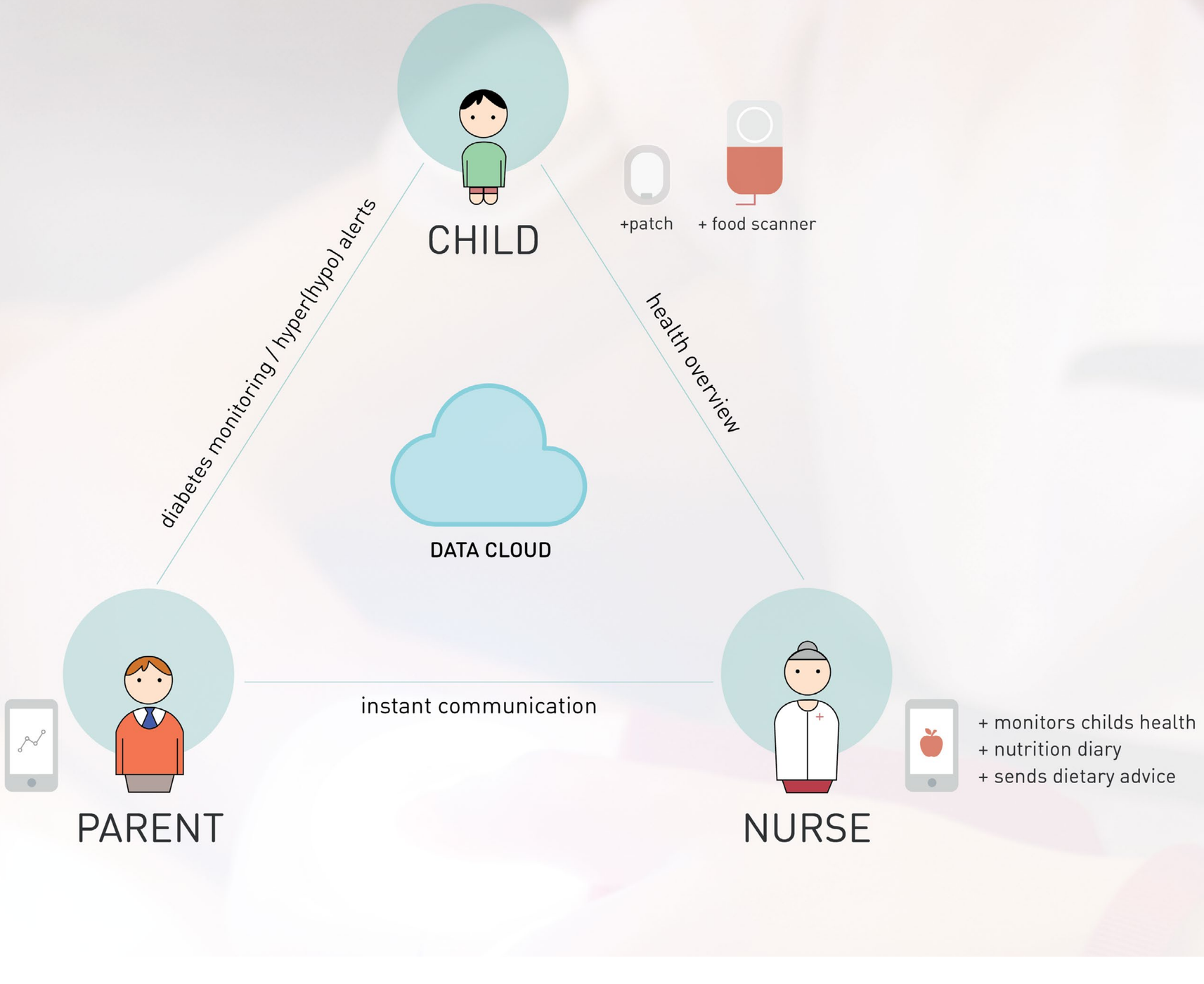


CONNECTING

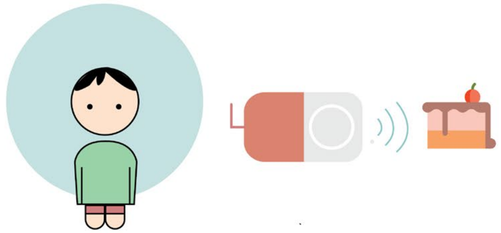
Helping parent and child to communicate in more meaningful way

Play concept video
https://vimeo.com/207023890

SYSTEM MODEL



1. CHILD SCANS HIS FOOD WITH THE HELP OF THE SCANNER



2. PARENT RECEIVES FOOD INFORMATION & CONFIRMS

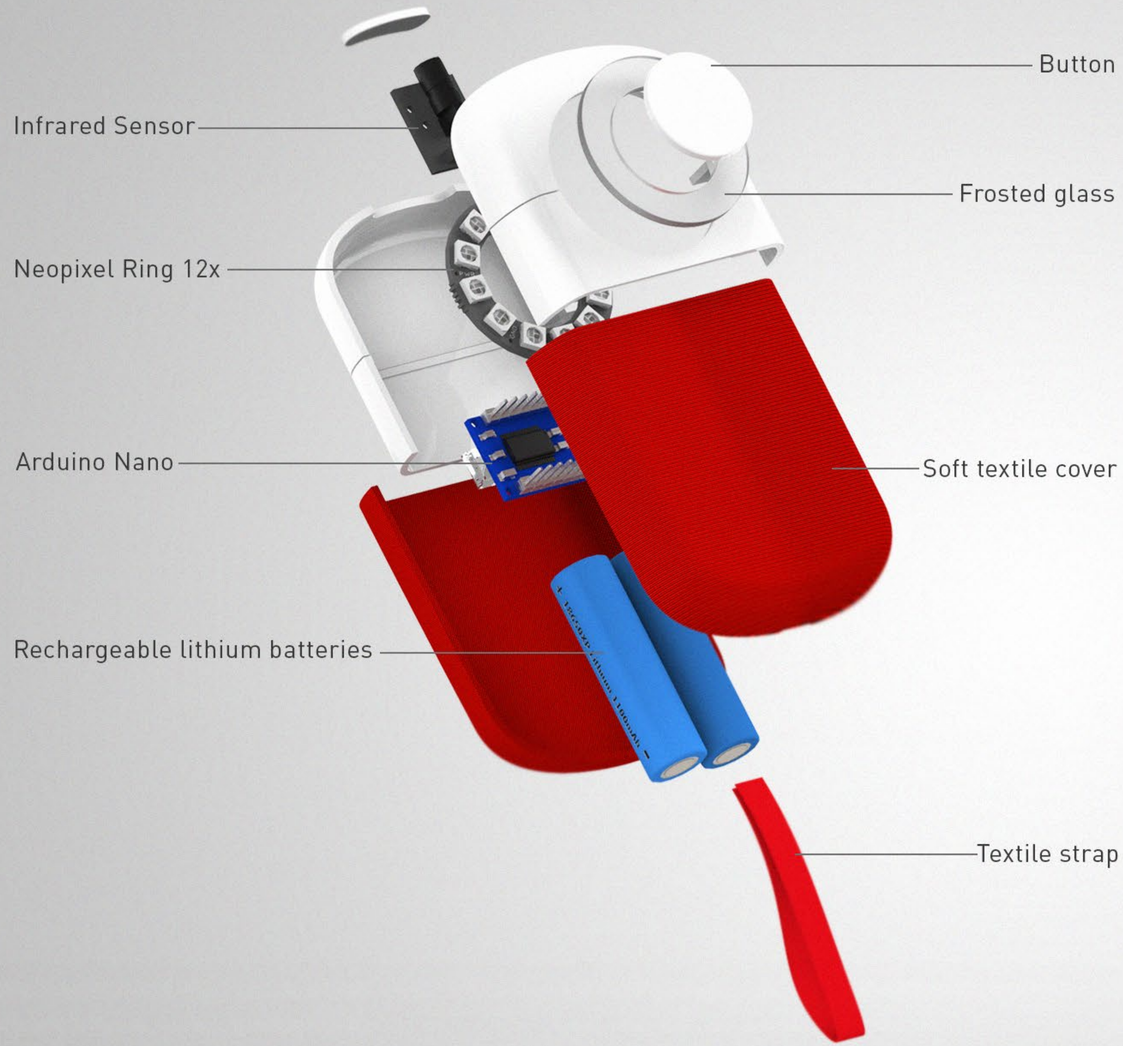
3. SCANNER CONFIRMATION SOUND & LIGHT

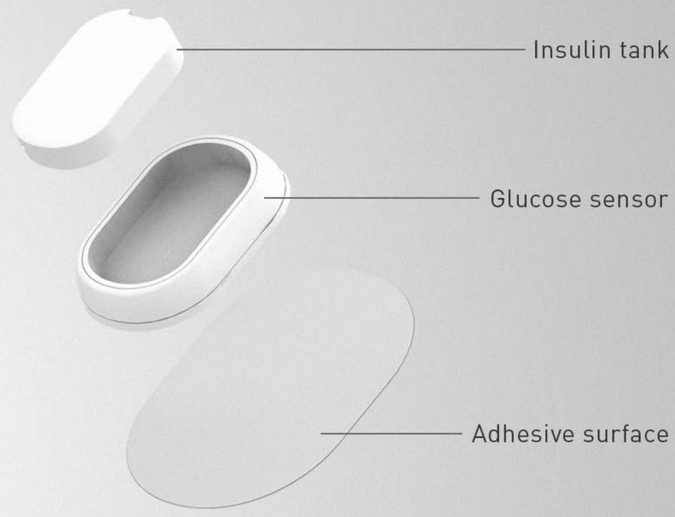
4. CHILD INJECTS INSULIN DOSE APPROVED BY PARENT

5. CHILD HAS POWER OVER HIS FOOD AND INSULIN INJECTIONS

6. PARENT IS RELAXED AND CAN KEEP TRACK OF CHILD'S HEALTH

EXPLOSION VIEW





SNASK COMPONENTS

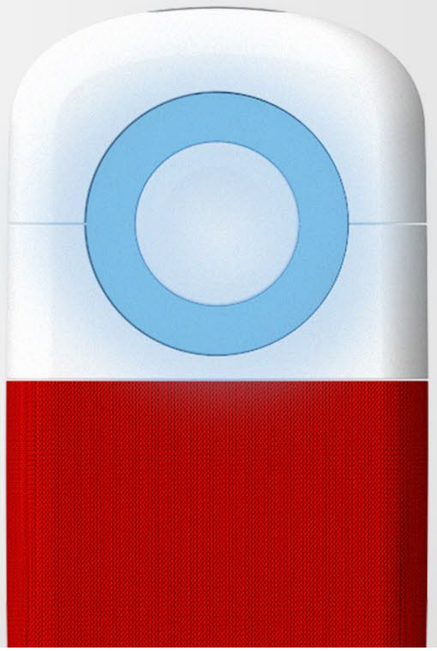
light & audio feedback

while scanning food

when parent disapproves

when parent approves

insulin injection

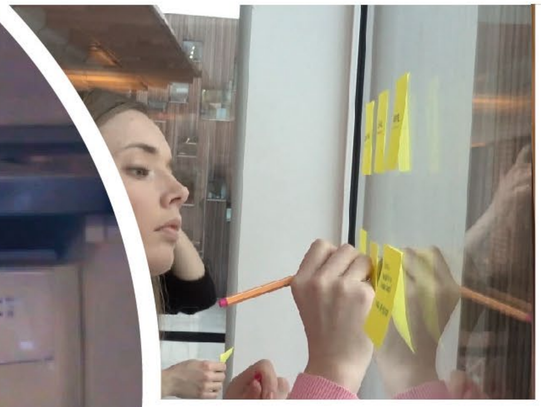


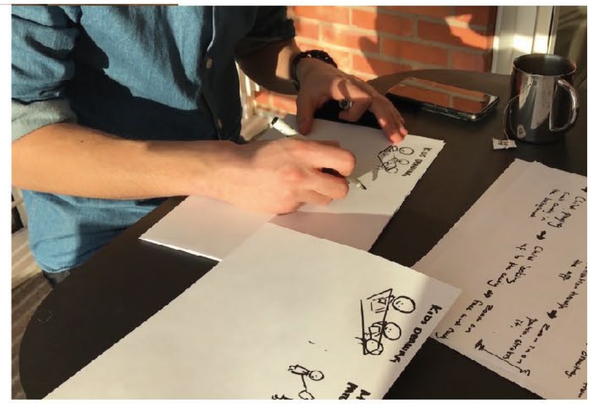
SNASK

the process

Play process video
https://vimeo.com/207528219

- How could we empathise with the childs daily life with diabetes?





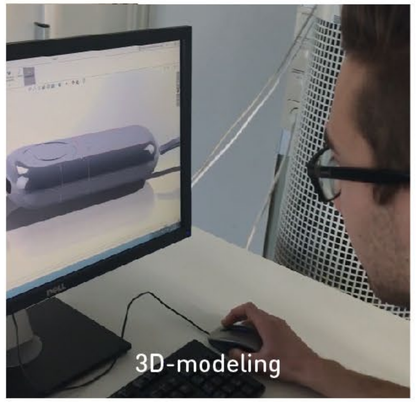
EMPATHIZING

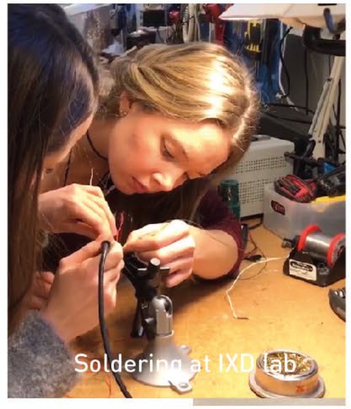
During phase one, we mapped out the complexity of the disease. We found that the connection between the parent and the child is put at major stress when parent tries to constantly monitor the child's disease. As a result, the child feels disempowered.

RESEARCH

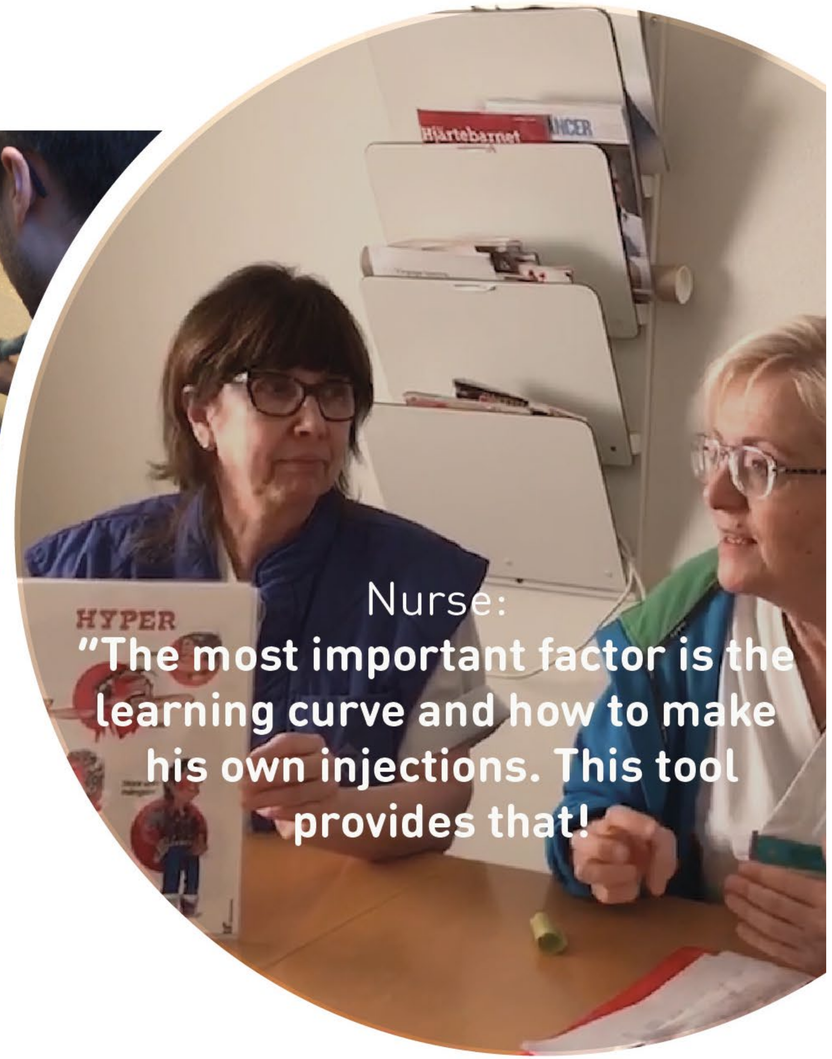
Existing products in the field are solemnly aimed towards an adult audience. We wanted something portable for children who do not have smartphones around 6-9 years old. It would be something he could be proud of and show to friends. We explored and acted out sketched scenarios on the topic of blood sugar monitoring in combination with a food scanner.


University Hospital, Umeå


3D-modeling


Soldering at IXD lab


3D-printing



Nurse:
"The most important factor is the learning curve and how to make his own injections. This tool provides that!

TESTING WITH NURSES

We conducted close interviews and iterations for our concept with nurses and specialists at Umeå University Hospital. The scanner should give encouraging feedback.

PROTOTYPING

Next step was exploring sound desig following Wizard of Os-testing. We built 3D-printed models, programmed the interactions choosing colorful light feedback for the sounds. Finally, we animated the interface for the application that would show data to the parent.

EXPERT FEEDBACK

The most valuable feedback while showing our final concept film and prototype for nurses, dietists, children and parents at Umeå University Hospital Diabetic Unit. **The feedback we got was that the product would indeed be very useful for the child and parent.**


This project was a two week collaboration
between two Master programs at the Umeå Institute of Design;
MFA Interaction Design and MFA Advanced Product Design.