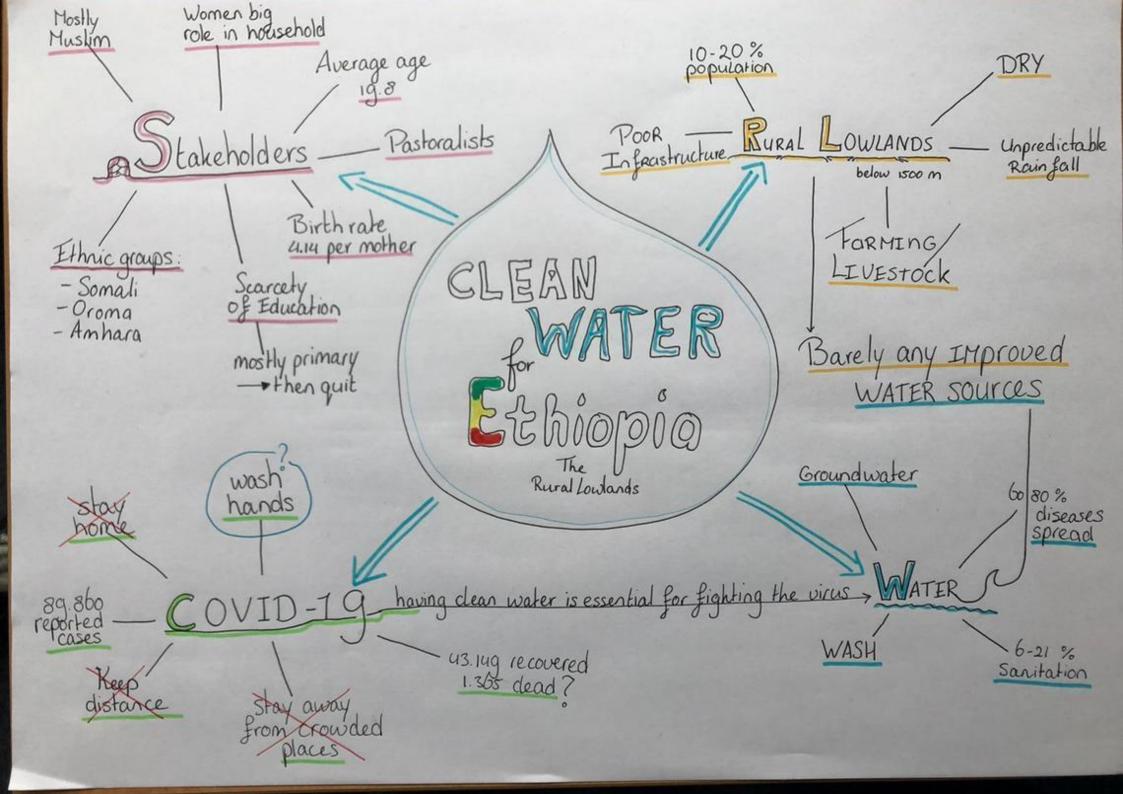
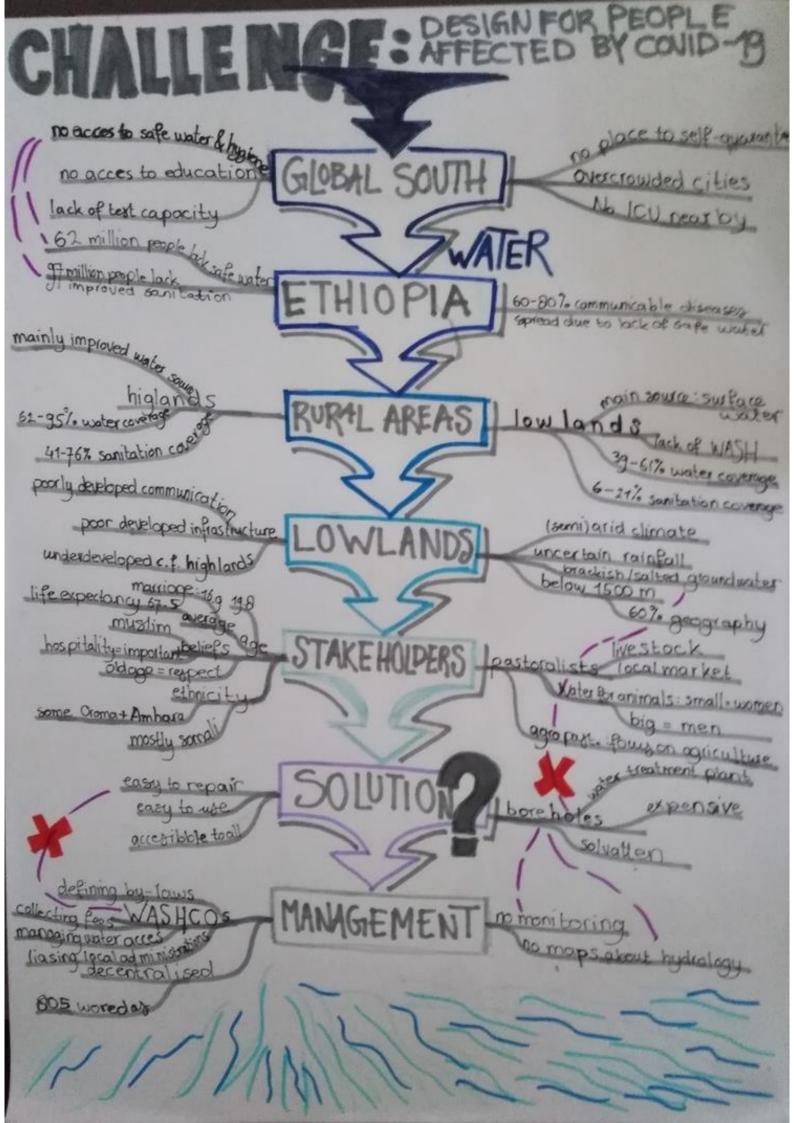
The script of our design

Visualisations of our stakeholders, their context and our product.

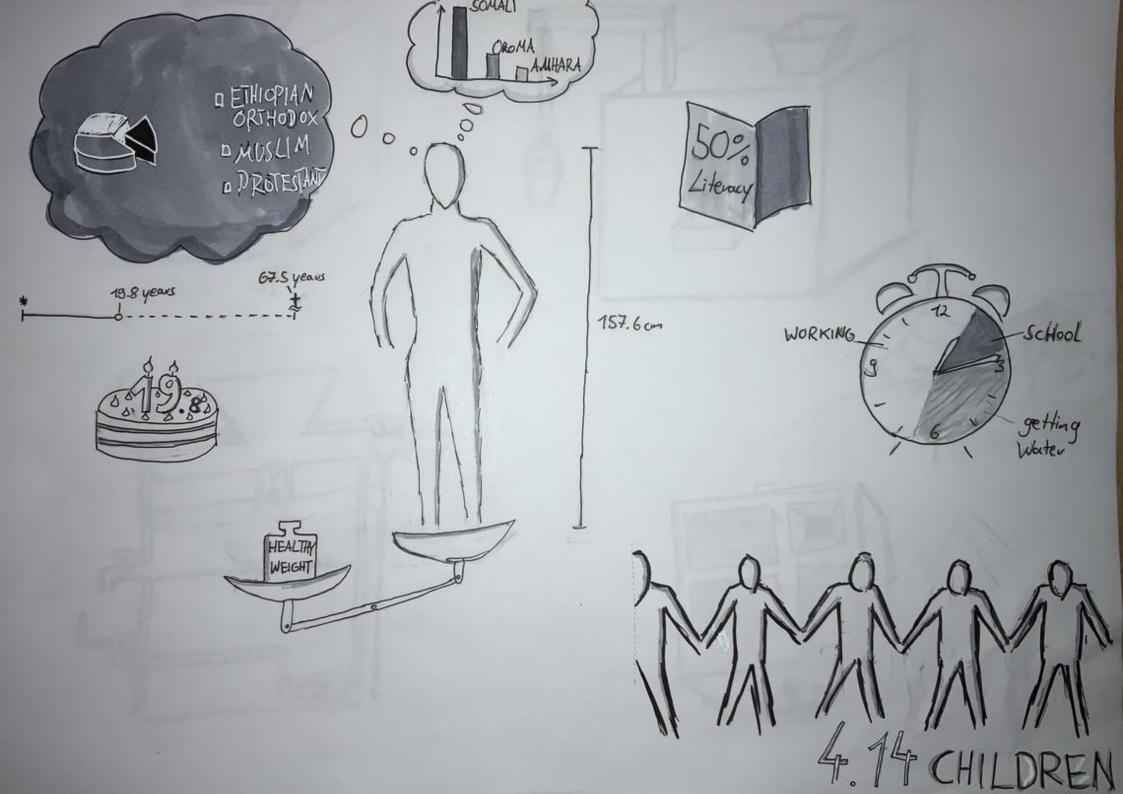
Visualising our challenge

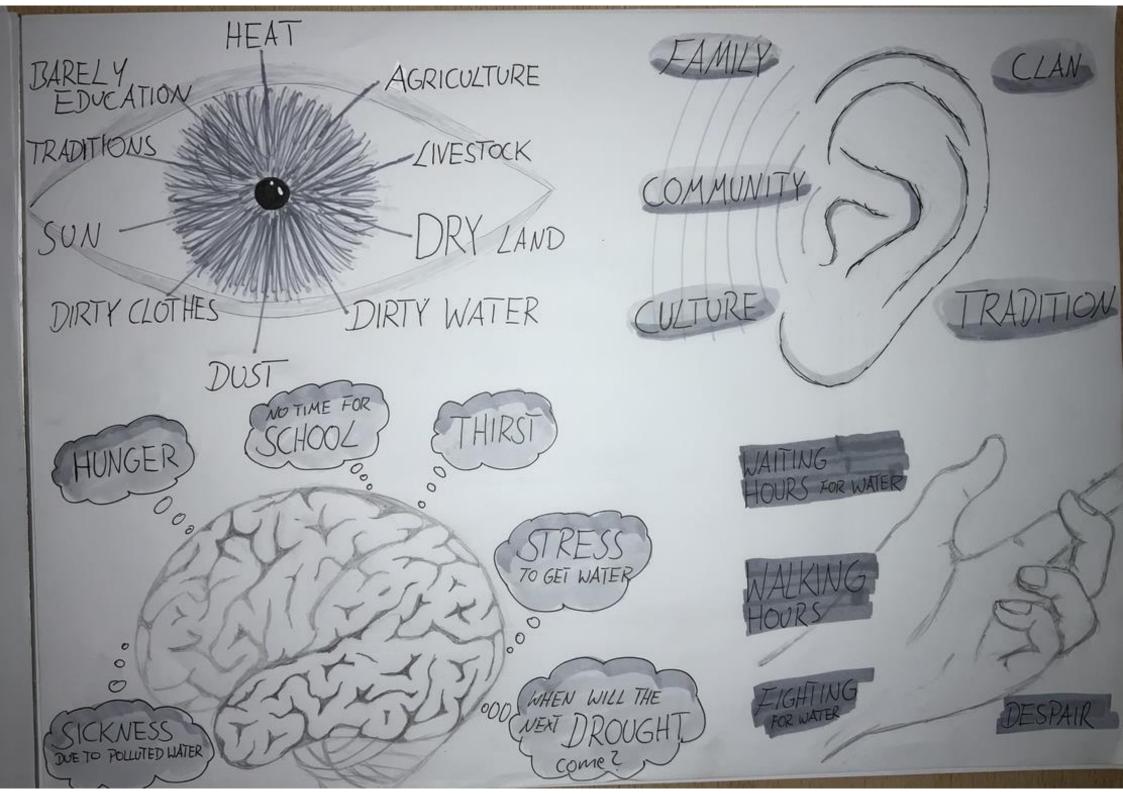




User Persona

Getting to know our stakeholders by creating empathy maps and storyboards





A slice of life of Maya

Amid the dry, scorching heat of the early-July sun, 19-year-old Maya bends down to fill the battered bucket with cloudy water from the lake and prepares to head back home. She raises the bucket and lets it rest on her head, supporting it with one hand, and starts walking.

- Insight: During the dry season, people in Ethiopian lowlands usually stay close to permanent water sources.
- · Insight: Water-related labour is gendered.

Maya will be walking for at least an hour but she's used to it by now – she's done this a thousand times and today won't be any different. She's long since accepted this daily monotonous cycle – maybe has even developed some sort of twisted fondness for the routine, but she still can't help but wonder if things could be different...

- Insight: While it can be comfortable to have some routines, doing the same thing everyday over and over may not be good for mental health.
- · Question: How can technology help with repetitive tasks like this?

Maya arrives home an hour and a half later. Her father, Meleak, and her elder brother, Aman are feeding the cattle. Father and mother have always liked Aman better than me, she thinks, sadly, and recalls that one time Aman was running a high temperature; Meleak didn't hesitate to take him to the Health Centre yet when Maya herself was sick, she was only given some herbs to drink. Maya sweeps aside the nauseating thought and continues walking.

 Insight: In many communities in Ethiopian lowlands, there is a strong bias towards men. Sons are usually preferred over daughters and hence are

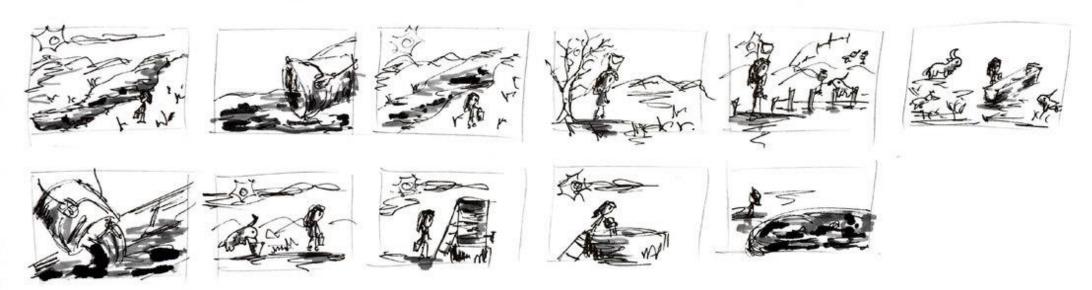
- often treated better by parents.
- · Insight: Men are usually responsible for taking care of large animals.
- Question: How can technology help neutralise this gender bias and allow women the same choices and opporunities as men?

She makes a stop at a small fenced area where injured cattle and smaller animals live and empties half of the bucket into the rusty trough. A short walk from there, she empties the rest of the bucket into the storage tank. The water comes out sooty and cloudy – that's the best we have. Deeply, though, Maya is quite concerned for the well-being of herself and her family. She heard that the coronavirus is spreading fast and good hygiene is more important than ever, but what else can I do?

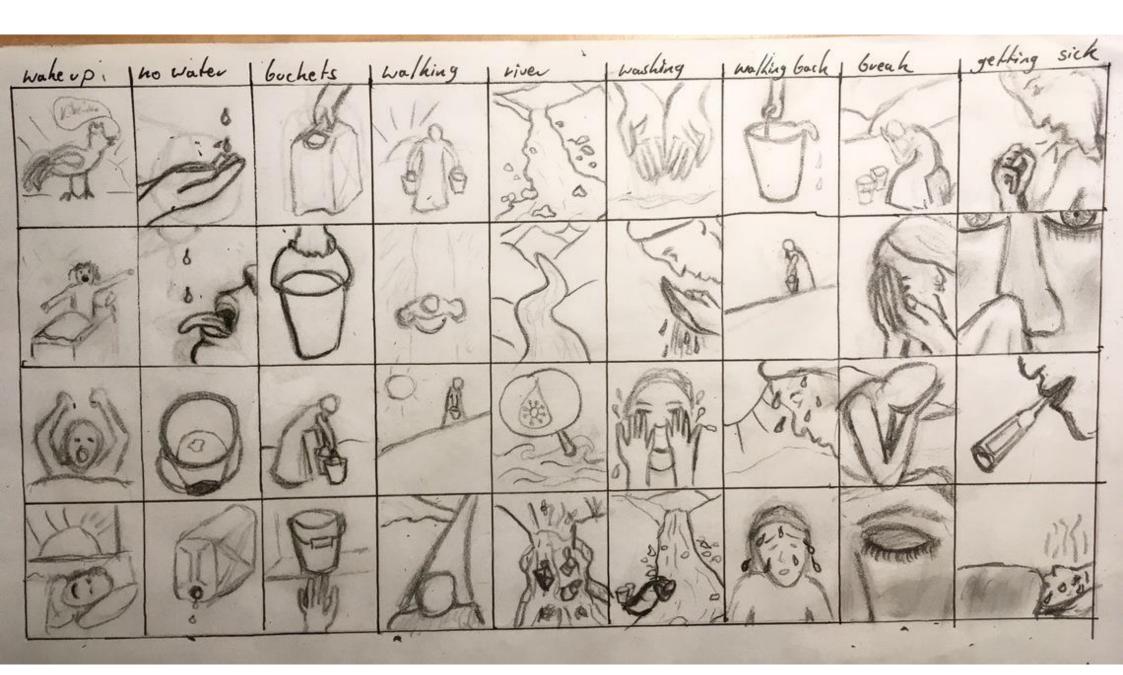
- Insight: Women are usually responsible for taking care of weak and injured animals as well as making sure there is enough water for domestic use.
- Insight: Access to clean water is vital in preventing the spread of COVID-19. Hand washing has been shown to be one of the most effective preventative measures.
- Question: How can technology create access to clean water in Ethiopian lowlands?

19/10/2000 - Storybranding my hather more than - Everyolay lech the Sig is the bust THINKS SAYS my family weed water the aute does look clean but there all me have reach areniste acceptance / surren le blad things will not double - but Laton related lightly hopeful. DOES take come of water for domestic Lygue and cortog NOTE TO KELINfrom here an no just me Supathy mags - Mayor. KRY THOUSER FROM STORY experimenting. (lake, Sued Sand, and Mayor. @ Mayor fells bucket and water (3) Mayor prepares to walk back 4) Mayor walks home ... 6) Mayo passes Maleah and Ana feeling cattle enter half of buchet to though leaves and centime mathing annies at water storage the water Mays empties bushed into strage of the water comes and abouty

20/10/20 - Storybounding - cont

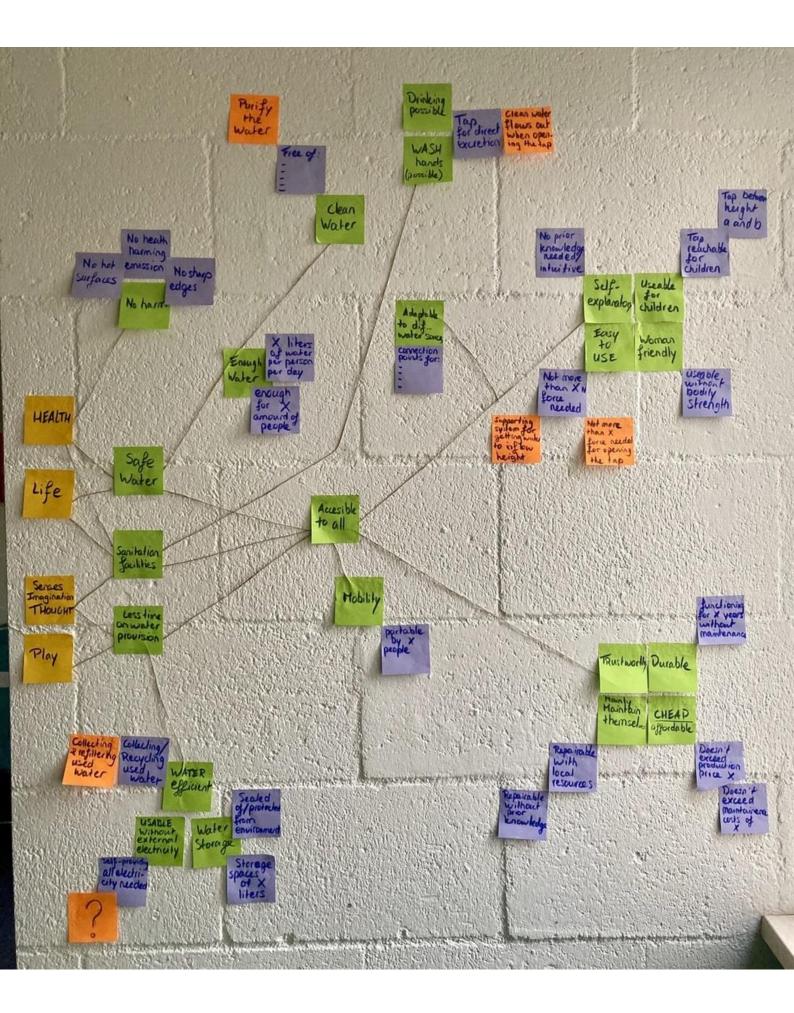


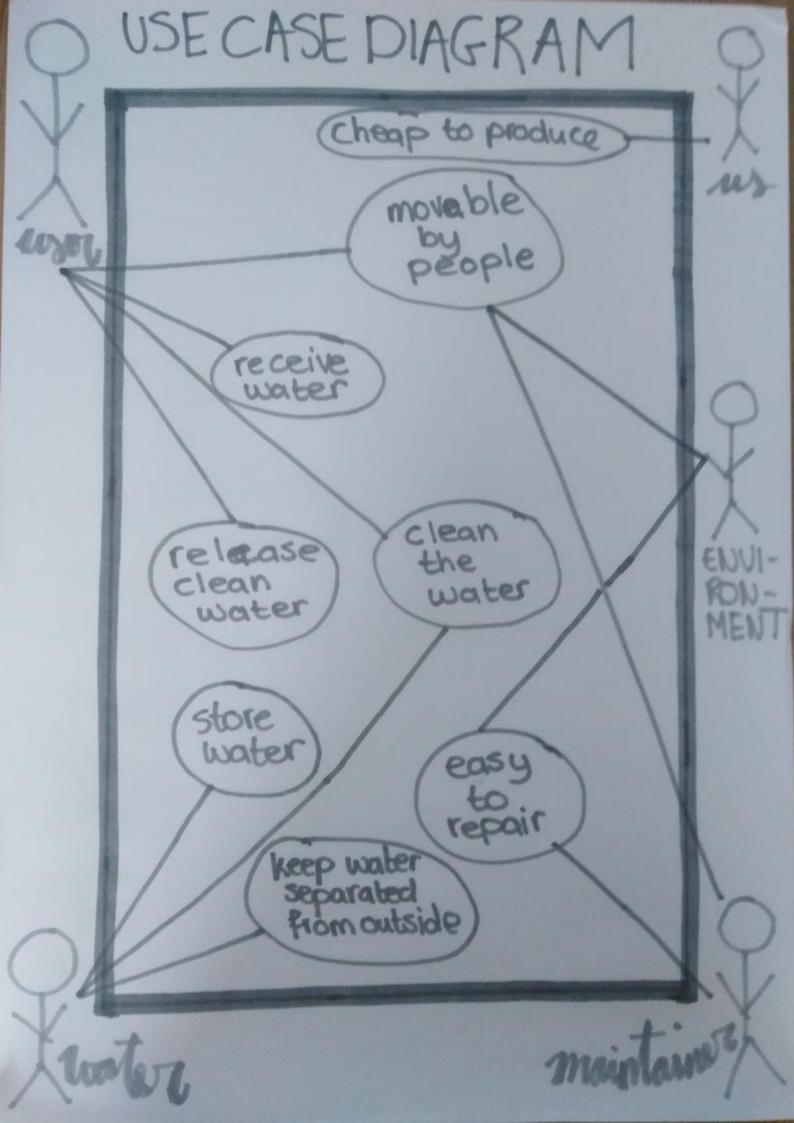
Fala wakes up carly, as she closs every morning. She goes to the water bucket in order to dink, but only a few drops are left. Therefore she packs two buckets of the shelf and walks outside. She walks don 2 hours outil she finds a little viver she fills the bockets and washes hand and free. Now she walks back. Due to the heavy buckets, she needs to stop and take a break. She meets her friend who is wally sich. When she is home she starts coughing and gets



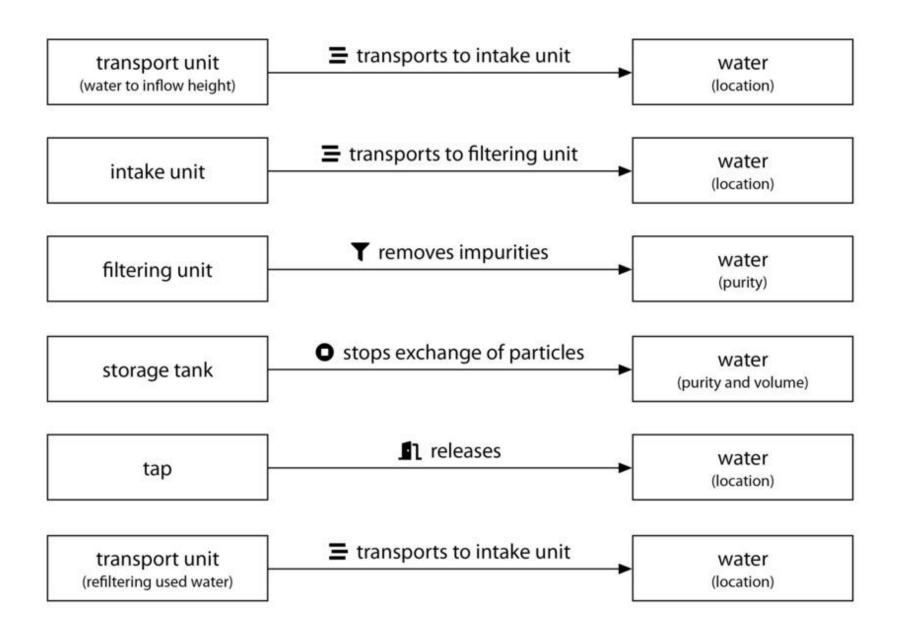
Connecting

Identifying and classifying our stakeholders needs, and translating these needs into actual product requirements and functions by creating a visual, a use case diagram and by formulating the internal functions of our product.





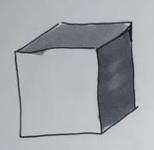
INTERNAL FUNCTIONS



General solution

Translating the needs, requirements and functions into a general potential solution to our challenge.

WE START WITH A BOX



CLEAN WATER



REACHABLE FOR CHILDREN

DIRTY WATER IN



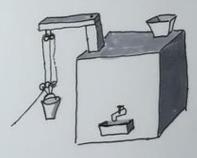
COLLECT USED WATER



POUR WATER IN WITHOUT PIPE



EASY TO USE 4 SUPPORT SYSTHEM



USE A PUMP?



NO EXTERNAL ELECTRICITY
NEEDED



INCREASE SOLOR-PANEL EFFICIENCY



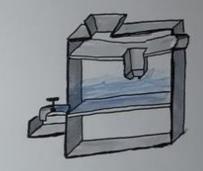
CHANGE POSITION OF FUNNEL

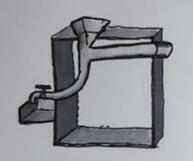


INTERIOR

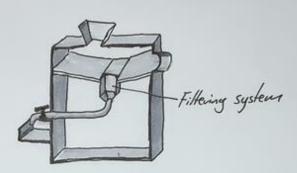
DIRTY WATER IN, CLEAN WATER OUT

STORE THE WATER

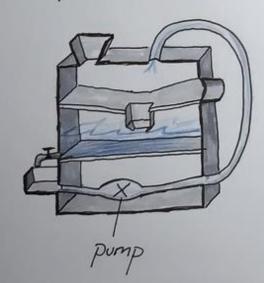




WATER IN, WATER OUT



REFILTER USED WATER



USE THE Pump TO EASE INFILL

