EasyWatt
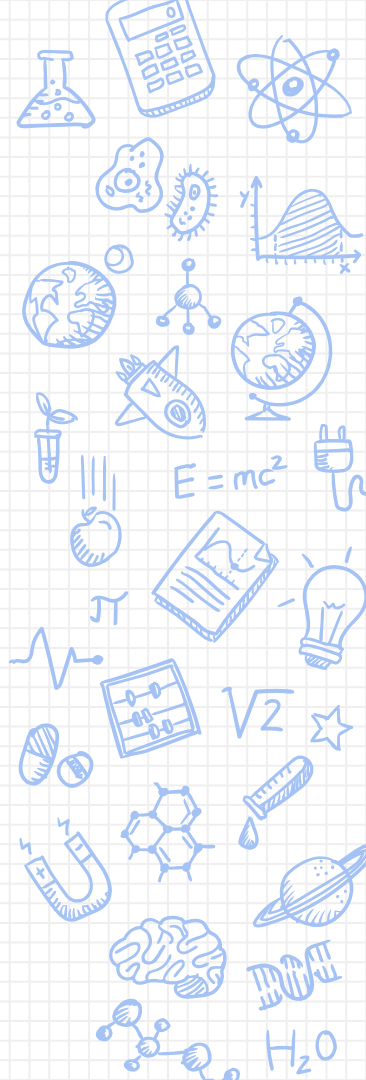
Case

How may emerging technologies and connected services be used to create innovative and sustainable solutions within the energy and utilities industries?

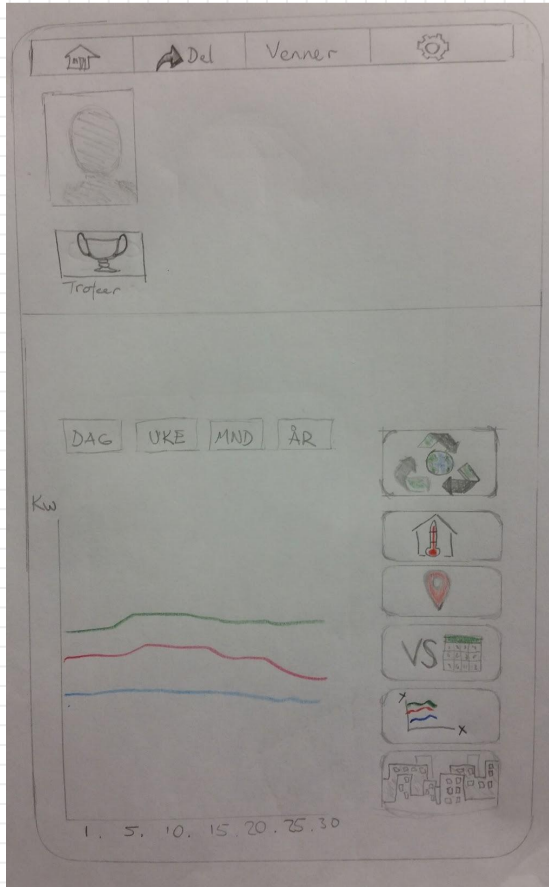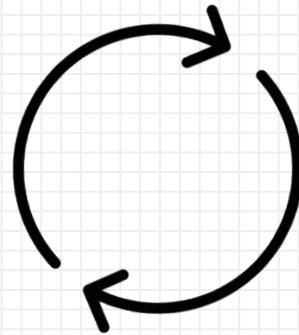All norwegian power consumers will by 2019 have installed a device called AMS to their household.

Elhub

Solution as of today

Sketches

First prototypes

EasyWatt

Resent notifications:

- Coffeemaker turned off. (1.20pm)
- Your oven was on, I turned it off for you. If you are using it, manually override this function. (4.15am)
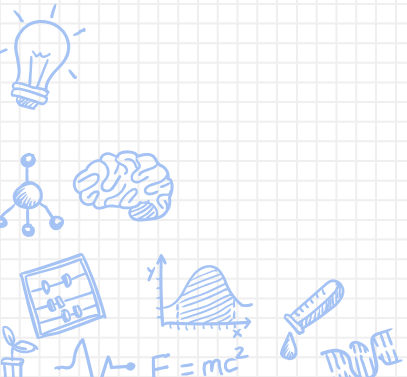
Status in your house:

- Everyone has left the house, I will now start redusing the powerconsumption. If there is anyone home at this moment please override this function. (9.00am Yesterday)

Prototype as it is now

How did we get there?

Process

Workshop 1 — Interview session 1 — Bluemix course — Workshop 2 — Interview session 2

Workshop 1
- Idea generation
- Affinity mapping
- The 4 C's

Interview session 1
–Interviews and observation in 3 different shared housing arrangements

Bluemix course
- Node.js
- Git

Workshop 2
- 4 unique persona
- Stakeholdermap
- Empathy Mapping
- Round Robin

Interview session 2
- Paperprototypes
- Assumption/Risk analysis
- Goals/Non-goals
- Choose concept

IBM Bluemix

Frank

Frank loves his gadgets, stats og measurements.

Socially active.

Aware of environmental issues, but doesn't want to change behaviour.

Concerned about his own image

Likes to exercise

Like everybody else he likes to save money.

Two different roads

Invisible

"I just want it to work"

Dashboard application:

Adjusts the temperature based on user position

Adjusts consumption based on input from the user

Learns from monitoring actual consumption

Monitor and remote control household appliances

Engaging

"It's always fun to compare yourself to the neighbor"

Achievement system:

Collects data about your consumption, and compare it with similar neighbourhood households.

–Trophies, with the opportunity to share through social media.

– Neighbourhood chef (used the oven the most)

– "You watch the least TV in your neighbourhood"

Whats next?

Develop the prototype:

Usability testing

Dimensions:

Collection of functionalities

Visual apperance

Communicate with sensor