

# SNARK

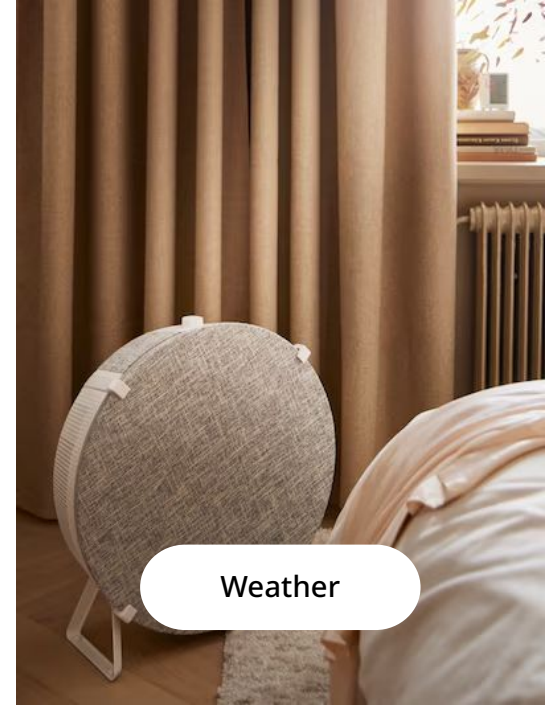
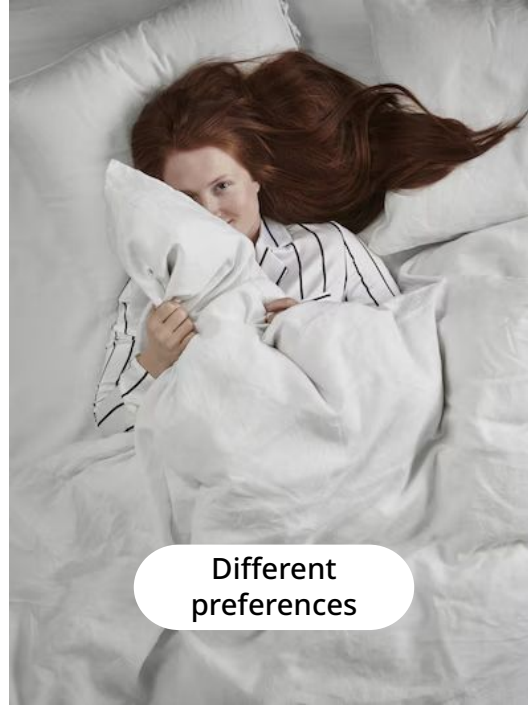
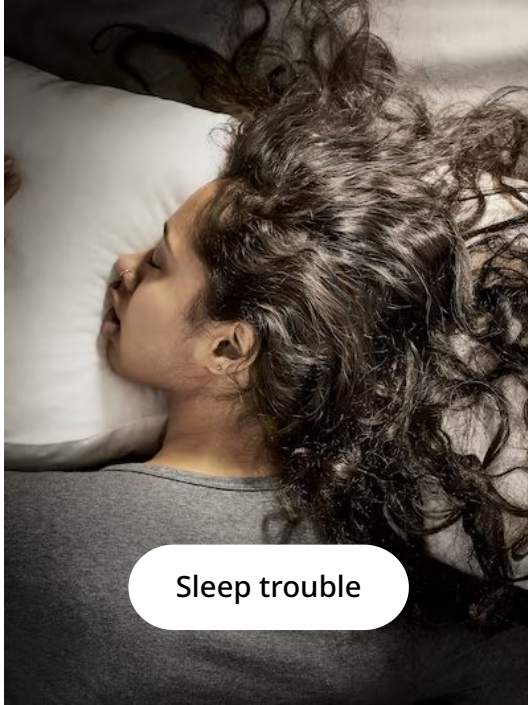
The smart mattress- and blanket- range with personalized temperature settings

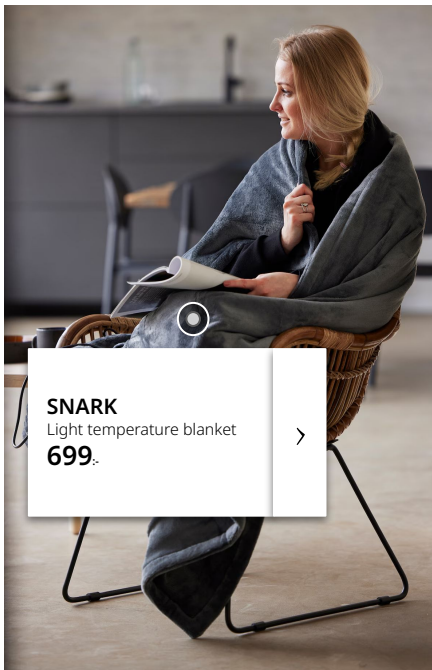


**CHALMERS**  
UNIVERSITY OF TECHNOLOGY

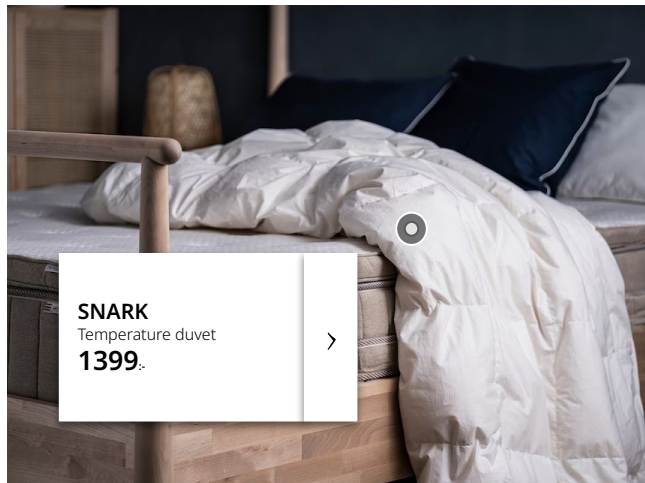
TEK830 - Digitalization and AI in practice

# PROBLEM STATEMENT

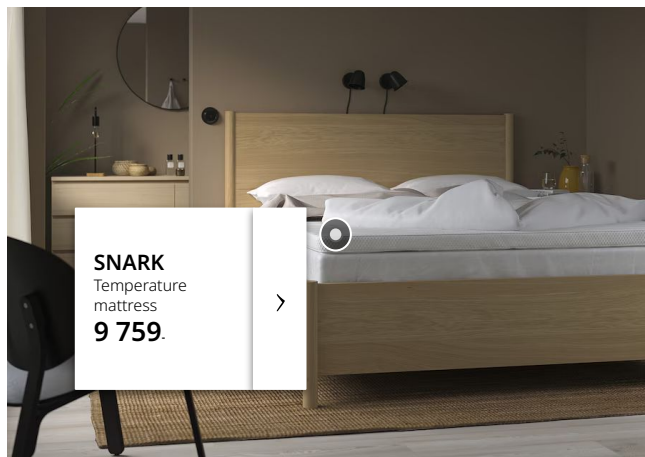




**SNARK**  
Light temperature blanket  
**699.**



**SNARK**  
Temperature duvet  
**1399.**



**SNARK**  
Temperature  
mattress  
**9 759.**



# The SNARK range

The smart mattress- and blanket- range  
with personalized temperature settings

Range of products with the same  
technology

\$ - Light temperature blanket  
\$\$ - Temperature duvet  
\$\$\$ - Temperature bed mattress

**SNARK**



DEMO APP

<http://snark-app.chalmers.it>

priceless:-



## Snark



### About the bed

The temperature-controlled smart bed adjusts automatically to your set sleep temperature, ensuring optimal comfort all night long.

As you enter the room, the lights can trigger the bed's cooling system, preparing the bed to your preferred temperature before you even lie down.

**Find out more and see your statistics →**





# Links

[https://www.eightsleep.com/eu/?srsltid=AfmBOoqir5\\_4xDFR03iHOnUs1heNa5xNNB7uBpo8FTeyZRZ0FRdA\\_0JD](https://www.eightsleep.com/eu/?srsltid=AfmBOoqir5_4xDFR03iHOnUs1heNa5xNNB7uBpo8FTeyZRZ0FRdA_0JD)

<https://www.wizconnected.com/en-us/explore-wiz/spacesense>

<https://www.ikea.com/se/sv/>

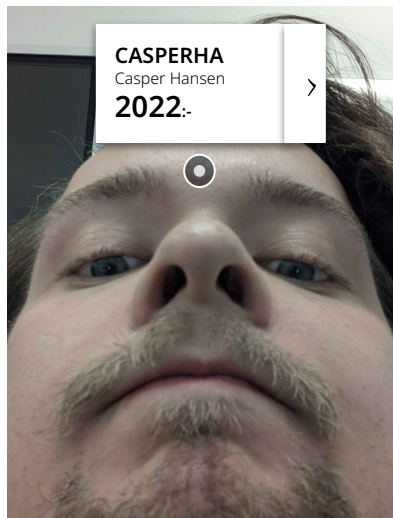
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<https://www.elgiganten.se/product/personvard-halsa-skonhet/massage-valmaende/varmefilt/re-varmefilt-i-fleece-130160-svart/193793>

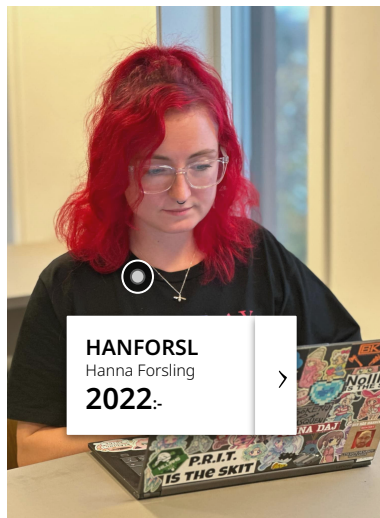
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<https://pedagog.malmo.se/app/uploads/2015/12/COLOURBOX4380441.jpg>

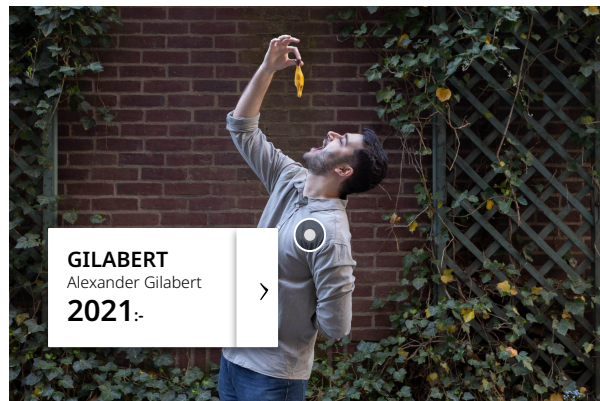
<https://www.eightsleep.com/eu/?srsltid=AfmBOoogEZY9eKm0aNoyrm4LIffoYXsaycRoYbiIivCyzPCVkvHrdSIU>



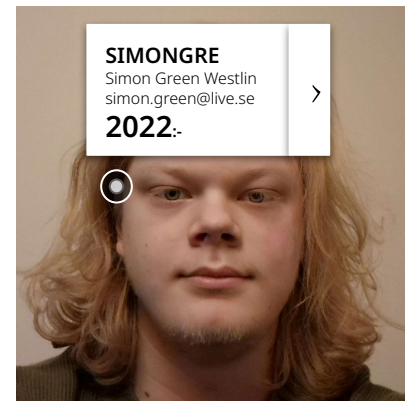
**CASPERHA**  
Casper Hansen  
**2022:-**



**HANFORSL**  
Hanna Forsling  
**2022:-**



**GILABERT**  
Alexander Gilbert  
**2021:-**



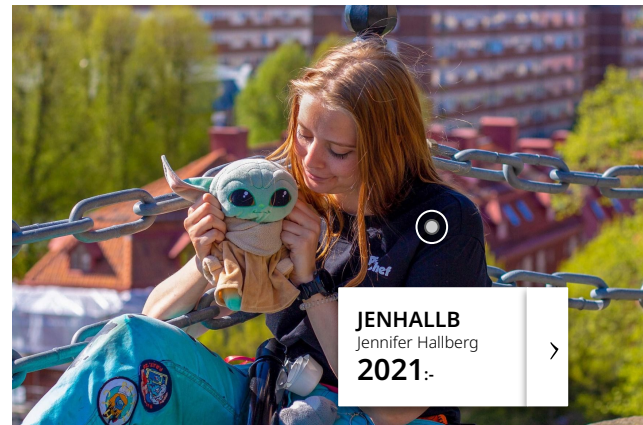
**SIMONGRE**  
Simon Green Westlin  
simon.green@live.se  
**2022:-**



# The SNARK Team



**TOREBORG**  
Carl Toreborg  
**2022:-**



**JENHALLB**  
Jennifer Hallberg  
**2021:-**



# Q&A

Please ask us anything about SNARK



# Innovation website

<https://snark-team16.chalmers.it/>



# Changes

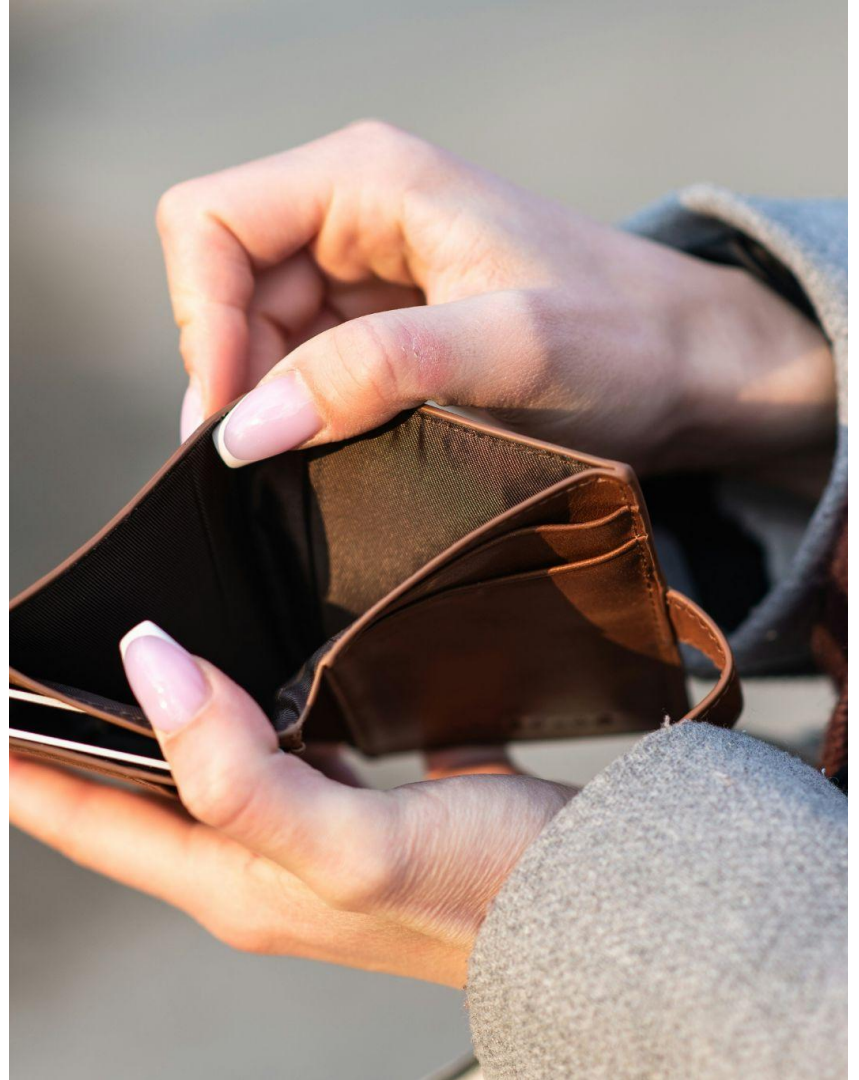
## Critique

*The general population can not buy a whole new expensive mattress such as SNARK 1.0*

## Solution

*Have a range of smart temperature mattresses or blankets*

*Warming blankets are common and quite cheap and many stores sell them*



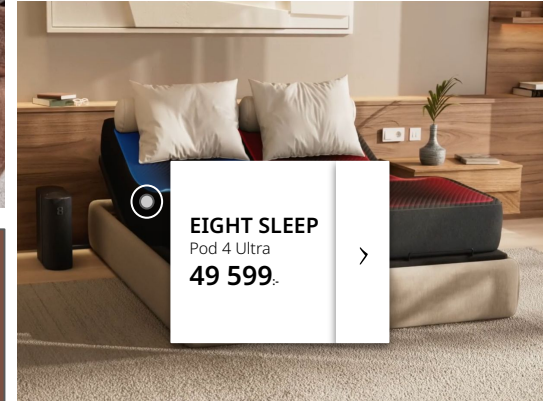
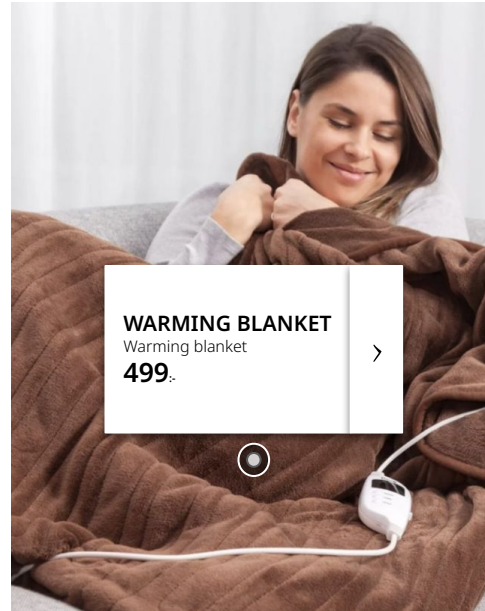
# Market Comparison

## EightSleep

- Tries to do many things
- Very expensive (5k €)
- Non-constructive data
- No interconnectivity
- Full bed

## Warming Blankets

- No smart functionality
- No cooling functionality
- Cheaper to make and cheaper to buy





## Usability

User interviews

Middle class users

Sleeping troubles

Americas



## Feasibility

Wifi presence sensing  
tech

AC tech

Wearables

Data usage



## Viability

Aligns with IKEA's vision

Market value

Sustainability

Measure of success



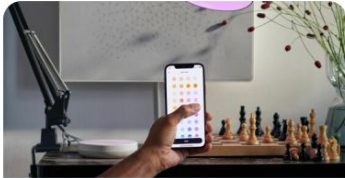


## Next steps

1. Access to data and development cycle of existing products
2. Connect with sleep- and mattress experts
3. Prototype the blanket, duvet and mattress
4. Test the prototype
  - a. Test **Usability** by user testing
  - b. Test **Feasibility** by analysis
  - c. Test **Viability** by discussions with IKEA
5. Use test data and analysis to better the prototype

# As an extension to IKEA's Home smart

## Welcome home



### What can a smart home do?

There's so much you can do with some smart products, from better sleep habits to feeling safe and connected to your home from anywhere in the world.

Find out more →

Show demo: SNARK →

## Snark



### About the bed

The temperature-controlled smart bed adjusts automatically to your set sleep temperature, ensuring optimal comfort all night long.

As you enter the room, the lights can trigger the bed's cooling system, preparing the bed to your preferred temperature before you even lie down.

Find out more and see your statistics →

- 22.0° +

## Snark



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- 22.5° +

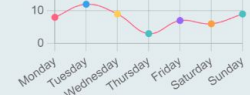


Manual

Bra knapp

Time in bed

Line Chart




Hours slept

Line Chart



# With different color schemes

**Snark**



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-

22.0°

+

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-

22.0°

+

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+