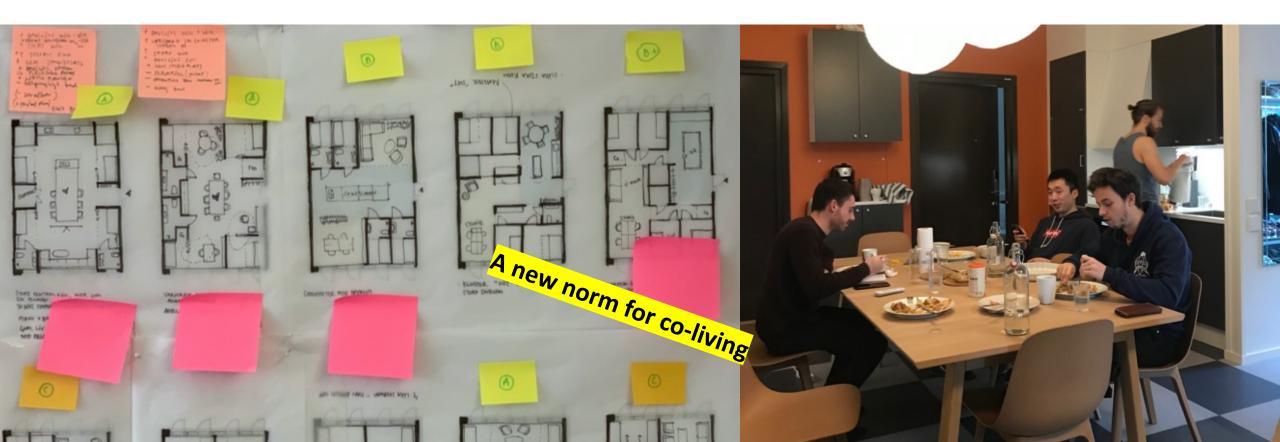
Co-kitchen The sustainable studenthousing of the future

Sara Ilstedt, project leader

Jan 2020- aug 2022



How can we create a coliving that:

- supports positive social interaction
- offers a good balance between private and social space
- Supports sustainable lifestyles; sharing, diet, recycling,
- saves maximum energy, water and resources
- Provides maximum satisfaction/square meter
- is resilient from a management perspective



Two co-living experiments in KTH live-in-Lab

LIL is rebuild twice and 5 students live together for one year in each layout





Sustainability dimensions

Social sustainability social interaction, support, wellbeing, services

Ecological sustainability Energi, resources, LCA, recycling, water,

Economic sustainability Prize and value for the inhabitants, management Economic sustainability: More people on less space, with more functions, gives better value for price.

- **Ekological sustainability: Co**living creates 30% more living area (compared to 1 room flat) Saves resources, material, heating
- Social Sustainability: loneliness is common among young people, particularly when moving to a new place, co-living offers more space for social activities

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Co-kitchen partners and research areas



Arkitektur Tekniska system



KTH live-in-Lab



Produkt och Tjänste system System

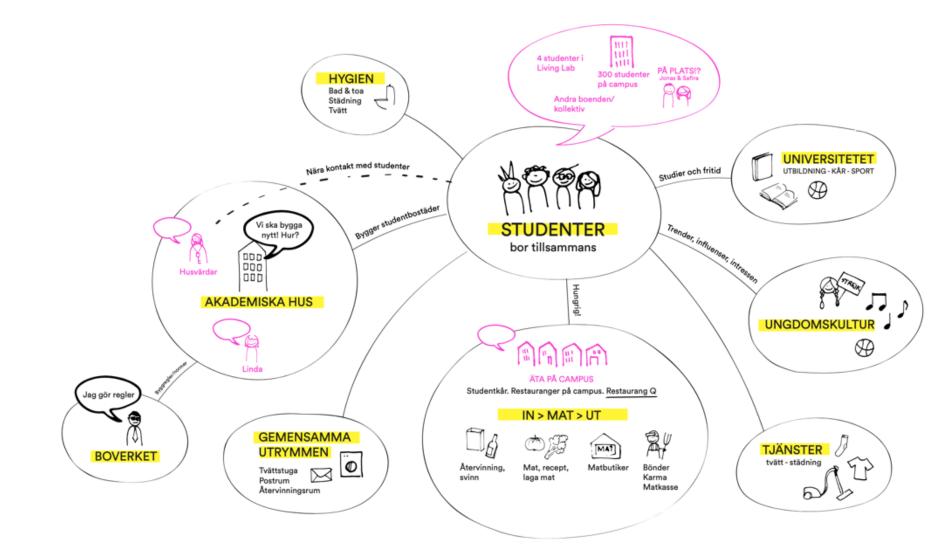


Miljöanalyser, förvaltning

KTH SEED, LCA



Student housing as a product service system



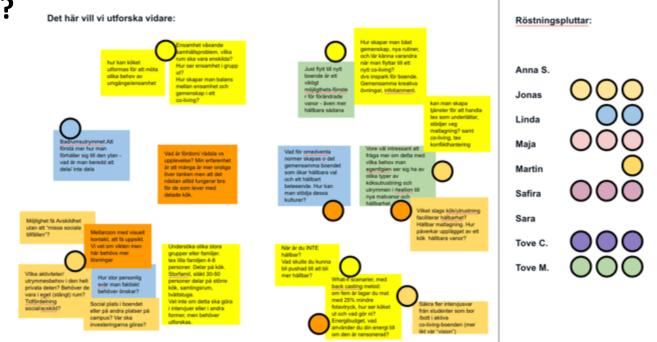
Stakeholder map

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Deep interviews with students

Interviews with 23 students, 10 nationalities in two iterations

- What makes a good student living?
- Challenges?
- The kitchen
- Diet and vegetarian food
- Re-cycling & Shared stuff
- Wellbeing & Social interaction



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Insights for a sustainable co-living

- Established routines for cleaning, recycling and socializing
- Build trust by getting to know each other and co-create in the home
- **Common dinners a key to more plantbased diet and friendship**

Design principles

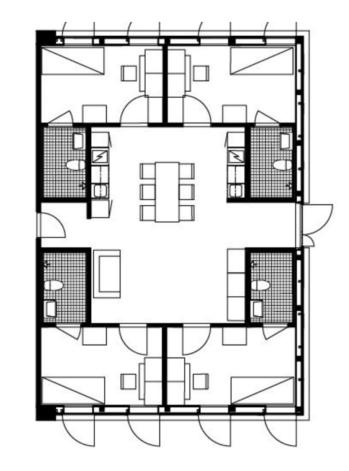
- Simple
- As soon as possible after moving in
- So fun and playful as possible
- Resource efficient

"When I moved in they already had a system for cooking togther - It was the smothest working flat ever . The expecations were very clear."

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Co-living 1. aug 2020 – maj 2021





Flavia, Spanien Lorenzo, Italien Adrien, Frankrike Yang & Boyu, Kina

Co-living 1

We introduce routines for cleaning, cooking and recycling

- Five "shift": Floors, kitchen, recycling, assist chef, write diary
- Eat a vegetarian meal togther once a week, Researchers (Martin och Sara) made the first common meal

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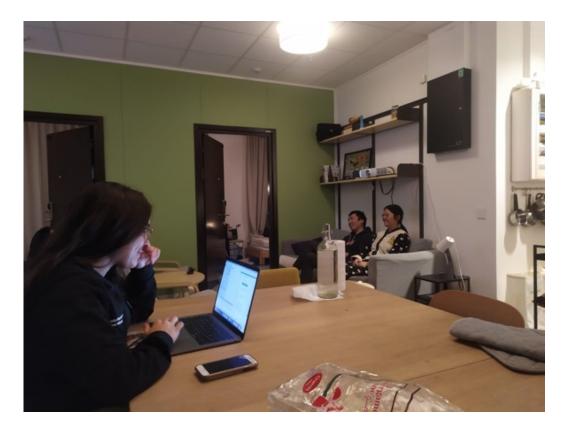
Dec 2020: Now that you lived in the coliving for a while - what is it like?

"Its so great with the persons, we have good relations" (Adrien)

" I like it very much...we are like family, celebrate birthdays together" (Yang)

"Its very nice, its a good number of people. The athmosphere is very healthy" (Flavia)

"Hur nöjd är du på en skala mellan 1-10?" Svar 8,4



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What has been good?

" The dinners....and that we are from different continents. We have done things outside but that would never have happened without the dinners" (Flavia

"in the beginning we didnt talk much with each other. But then we started to know each other better, and I think it was beacuse of the weekly dinner" (Matteo)

"its important to have good rules, that everybody accepts the framwork" (Adrien)

"I would say that everybody have their task, that everything is very fixed" (Flavia)

" I think it was very good that you gave us the roles, because it helped us to be more organised and the dinners forced us to be more together" (Matteo)

"Its an international home, so we talk a lot about different cultures. I improved my english a lot!" (Yang)

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Next step: Testing product service prototypes

Matchmaking quiz

Introworkshop with flatmate agreement

Recycling made easy

Swapping/recycling furnitures

Foodbox for easy dinners



Itike my space to be very clean and tidy

Disagree

Ora

Disagree

Agree

"I think many people get matched really

poorly and that leads to months of

unhappiness"

"That would be great, would be so easy. So easy. And it would give so much value to community and to sustainability"

The architects explore different layouts for the next step

"Jag låser sällan min dörr, det är ju en lägenhet med ytterdörr som låses.Därrmattorna lades ihop uld entrén"

gardinerna fördragna men det är lite trist med så lite dagsljus." Akustik lösningen

'Skulle gärna ha en

störresöng, eller en sådan som man kan vika ut till en dubbel"

"Eluttog till bordet

behöus, ui använder

det som både matbord och arbetsbord*

"Belysningen är dålig, så gult

ljus. Vi skulle behöva fler och

bättre ljuskällor. Det blir ofta

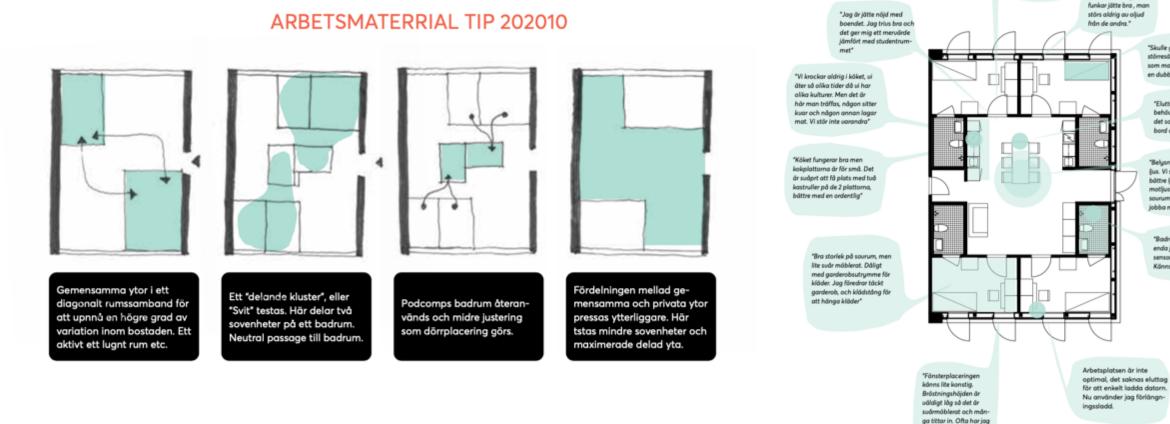
motijus om ui har öppet till

sourummen så man behöver jobba mer med ljussättning"

"Badrummet är helt ok, det enda jag kan anmärka på är

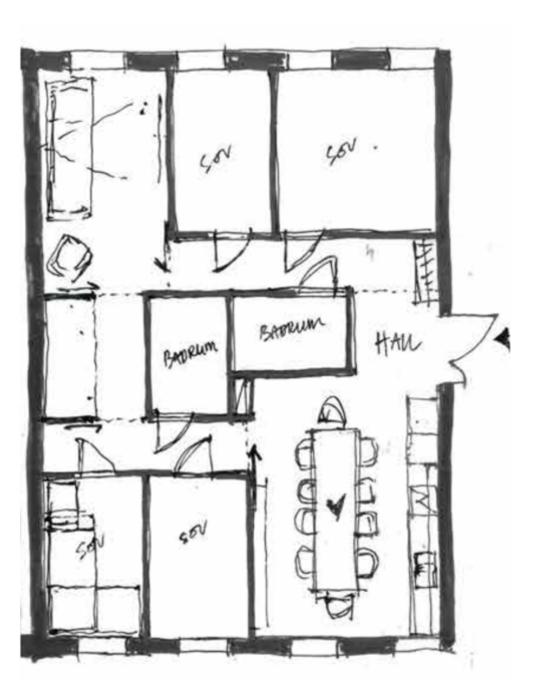
sensor duschen. Det är jobbig

Känns som en svensk grej*



Final design for LIL 2 August 2021-may 2022

- Mer gemensam yta
- Två kluster, med två sovrum och ett badrum och privat hall
- Badrummen återanvänds
- Två gemensamma rum i diagonal, med olika karaktär
- Stort socialt kök i söder, nära ingång
- Lugnt vardagsrum/studierum
- Gemensam garderob/förvaring







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