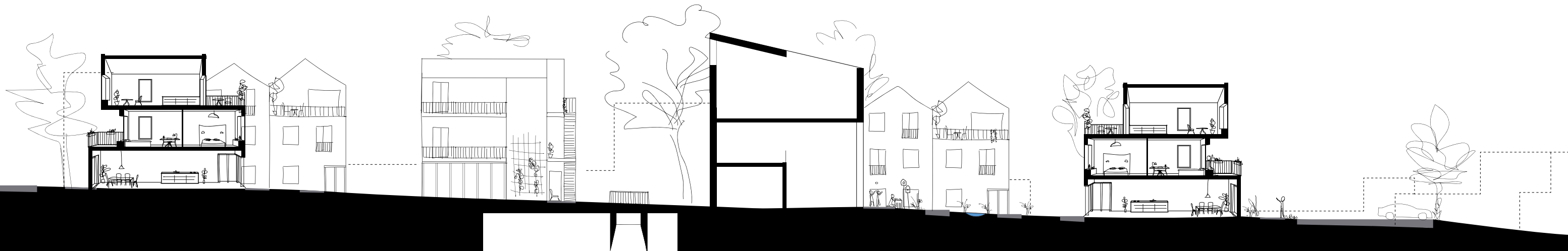


ensemble

an exploration of reciprocity and the act of giving to reinvent the elderly home

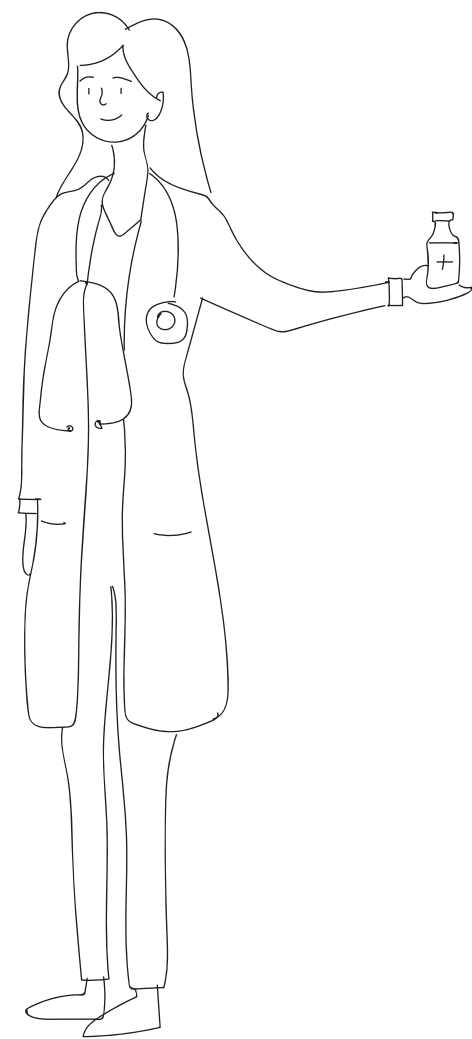
Renske de Meijer
06-07-2020 / P5 presentation
Graduation studio Designing for Care



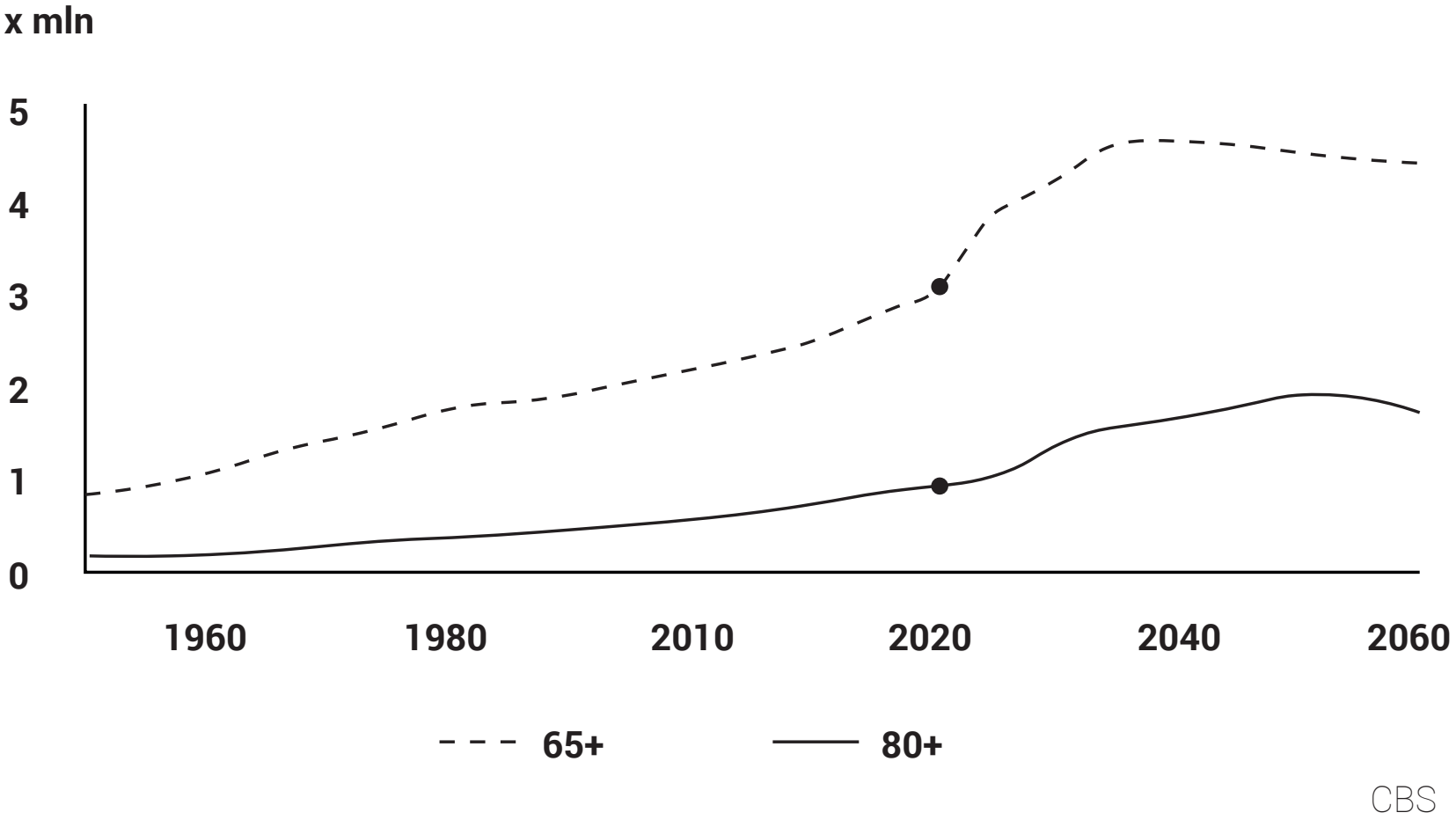
architect or doctor??



VS.

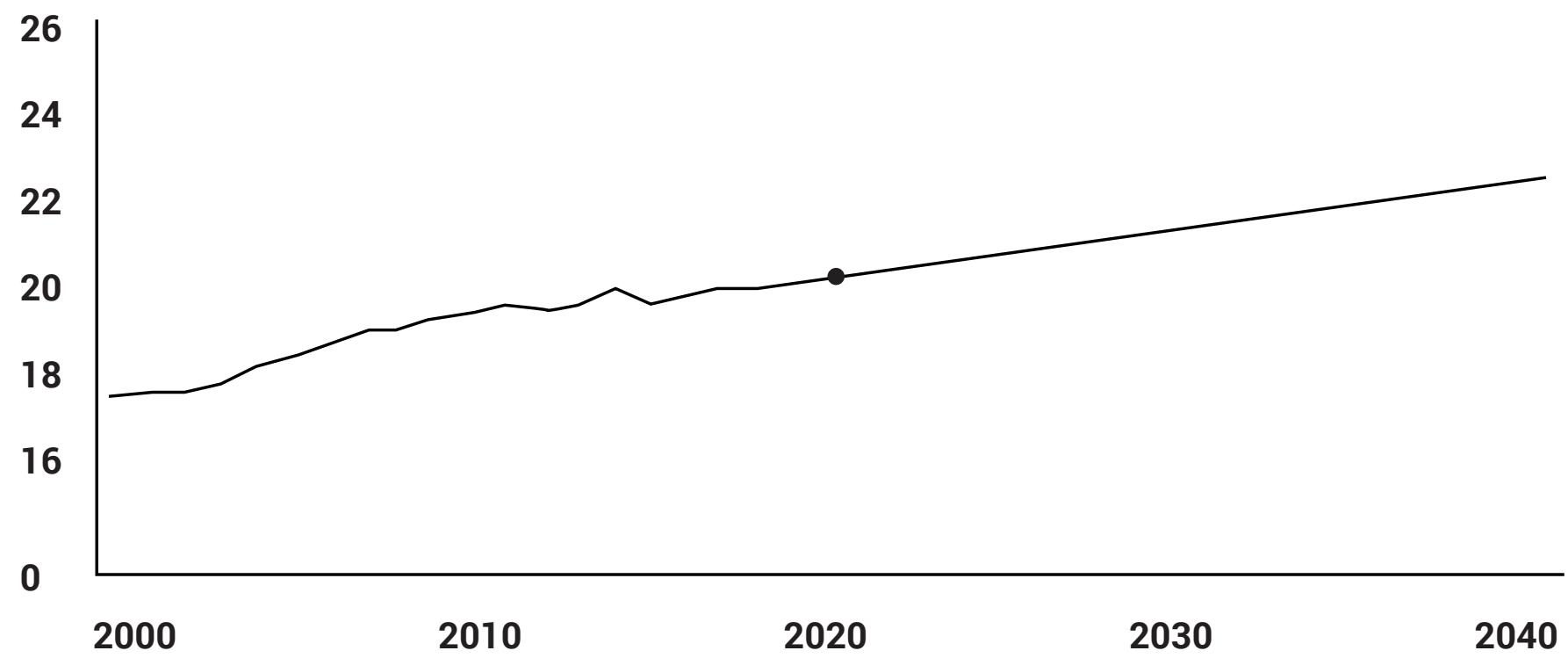


the problem



an ageing society

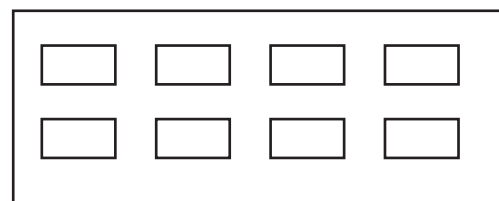
the problem



CBS

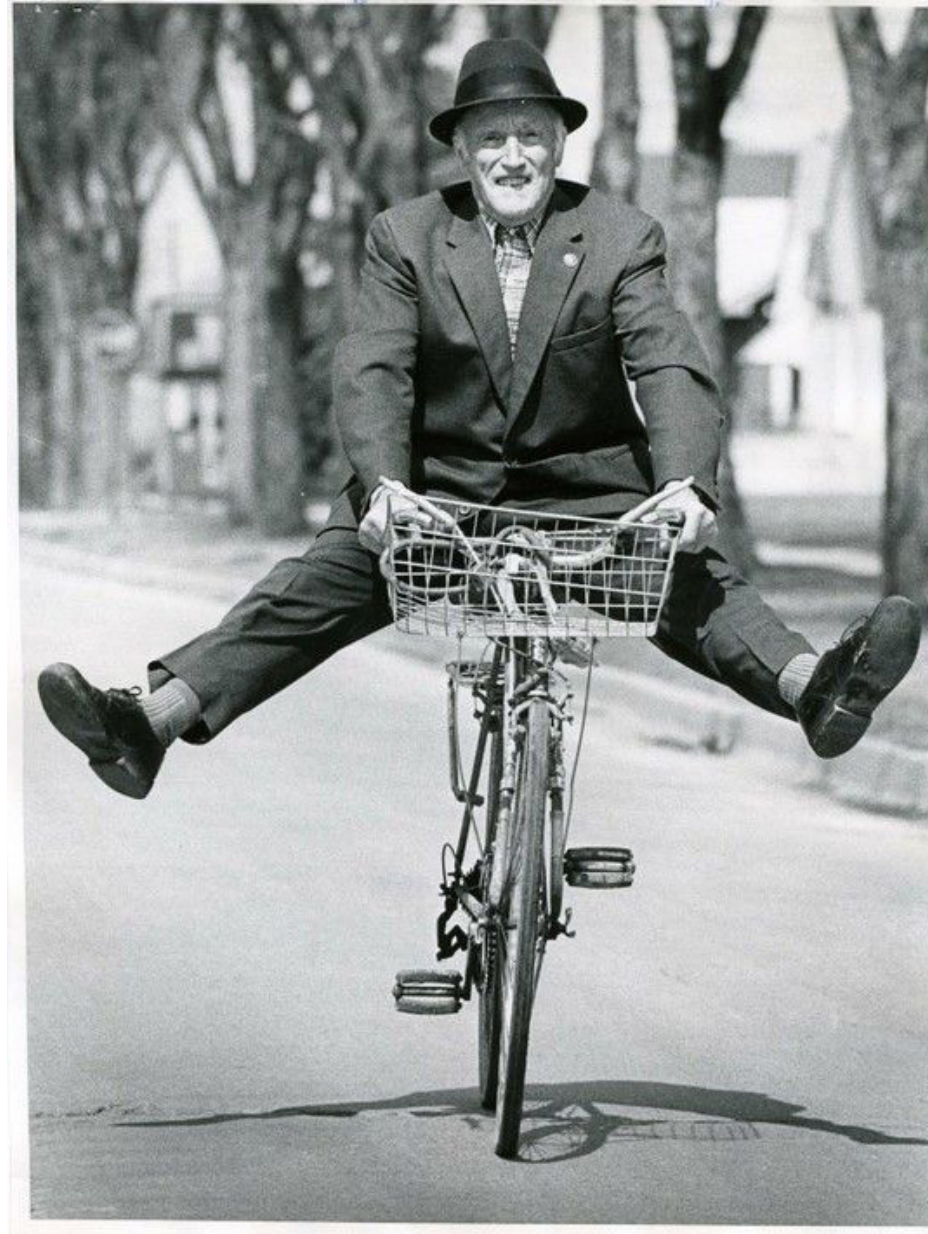
life expectancy of a 65 year old

the problem



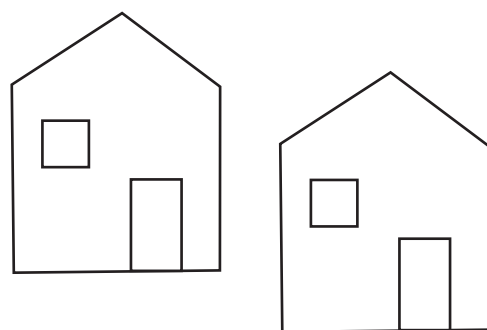
elderly homes





being old is not the same anymore

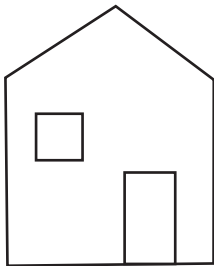
the problem



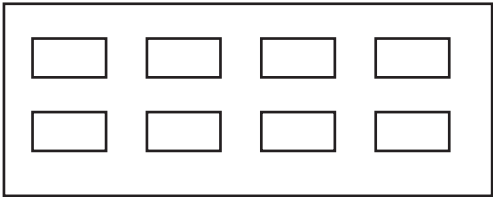
home + neighbourhood



the problem



living independent



elderly home

a gap

the method



a week in an elderly home



being part of their daily lives

ANNEKE



RIET



JAN



ISAAC



LUCY



HENK



ANS



AD



LIEN



FRITS



LOURENS



observation

fixed schedules

far away from public life
and facilities

immobility

observation



loss of independence

theoretic framework

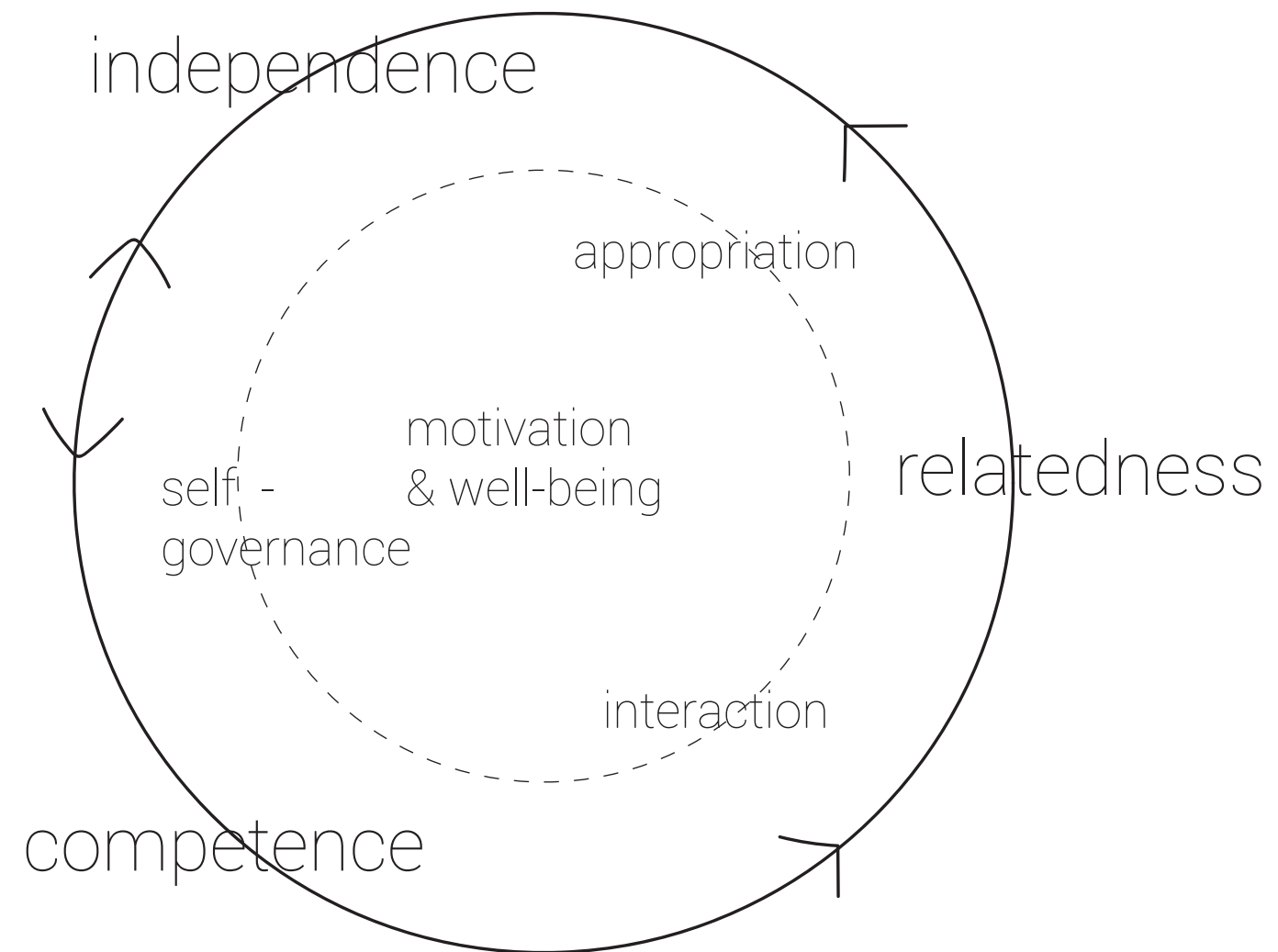


image based on Ryan, E. & Deci, E. (2000)

independence

the state of being free from the control of others

competence

ability to execute tasks leading to a sense of purpose

relatedness

being connected to others

**HOW DO
YOU**

**WANT TO
LIVE**

WHEN YOU ARE

OLD ?

go for a walk, physical movement and being independent

socializing: being among other people

go out

sporting and staying independent

do everything I do now, leading my own life

maintaining privacy

TV, music, going for a walk, reading

sporting and having a chat

doing my own thing, not being told what to do

staying independent

privacy and freedom

be as independent as possible

using computer, reading, going outside

going outside

determing when (at what time of the day) to get certain care

not be completey dependent

go outside

cooking myself and determining how to structure my day

sporting, ability to have a private life

staying physically active

sporting and having a chat

gardening and going for a walk

doing my own thing, alone and with others

staying mobile and living independently

function independently despite care demand

living in own home as long as possible, staying physically active, gardening

as much independence as possible

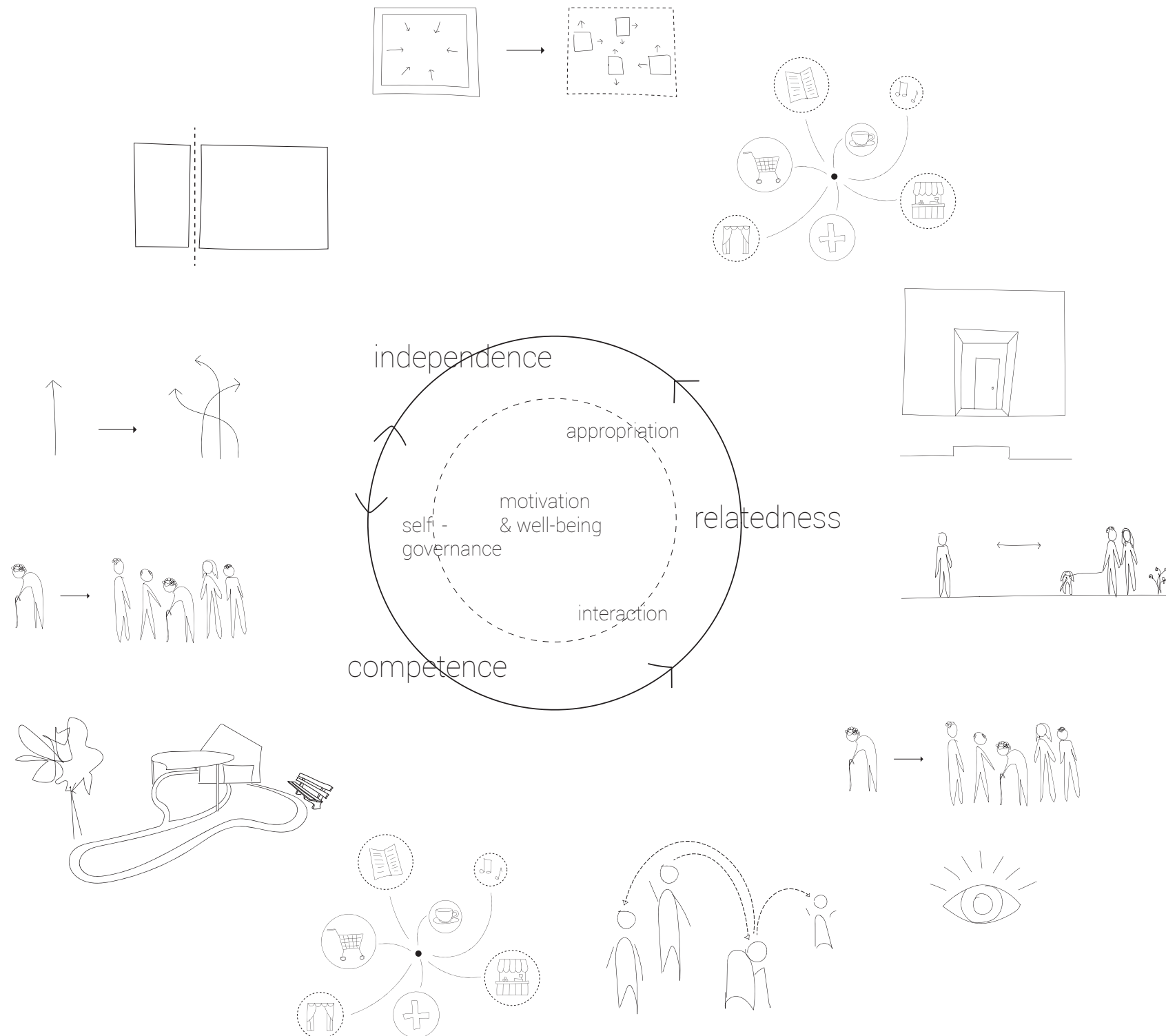
independence + competence + relatedness

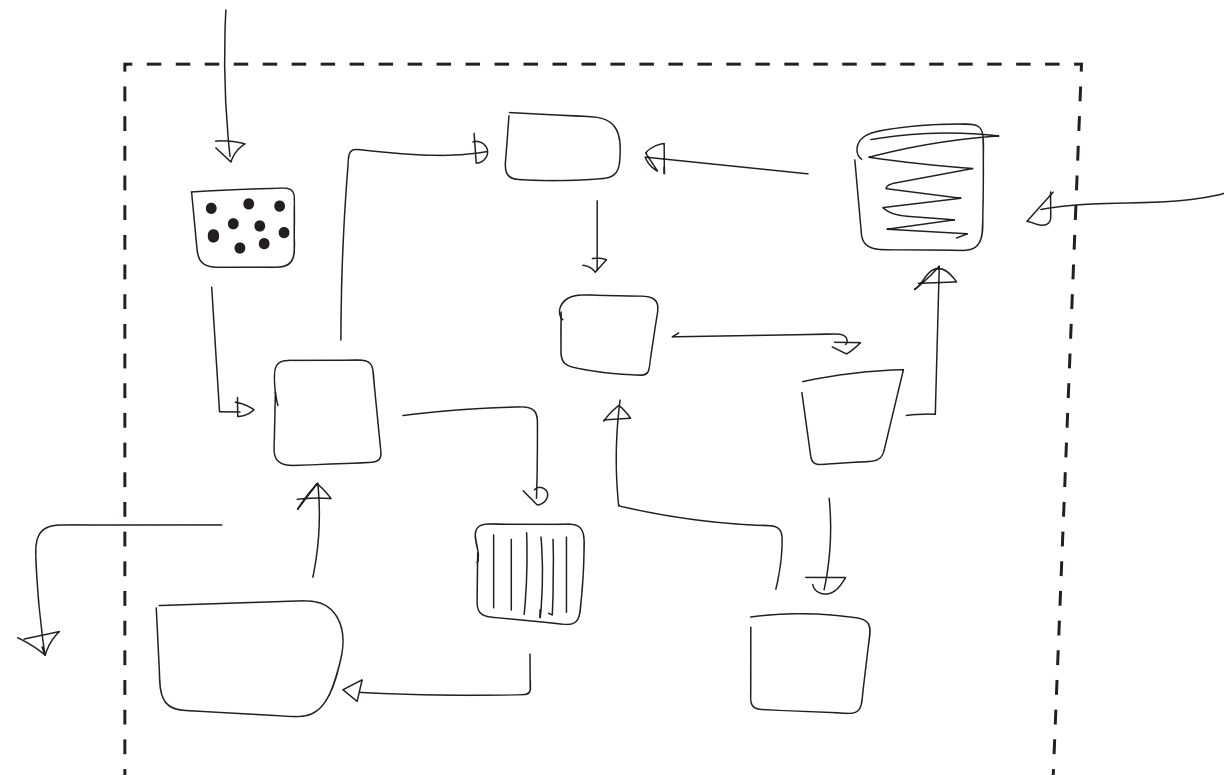
= solution?

the question

How to translate the intertwined relationship between independence, relatedness and competence into a spatial design that creates an inclusive community for elderly?

design tools

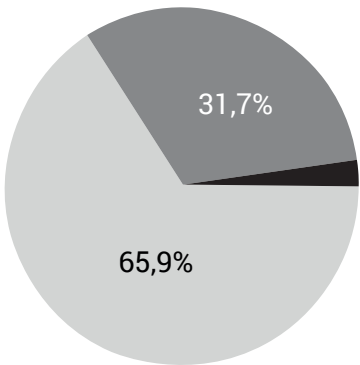




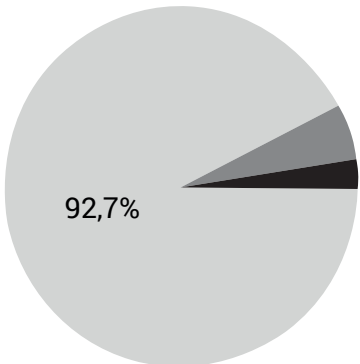
reciprocity = giving and getting in return

people are willing to give ..

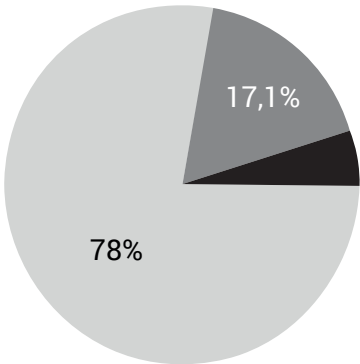
It brings satisfaction to help someone who is not able to do everything independently anymore



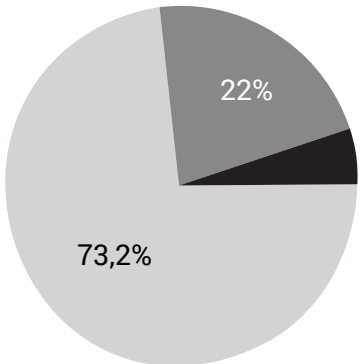
I would drive my neighbour to the hospital if needed



I would not mind an elderly asking some of my time once in a while

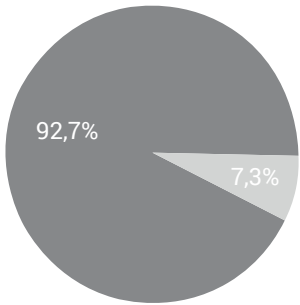


I do not mind sharing stuff that I do not use very often

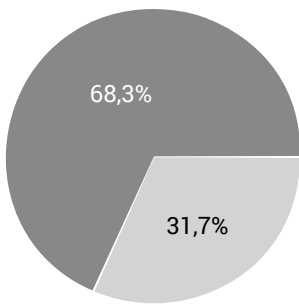


or do something for someone else

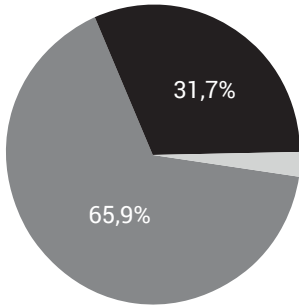
Groceries



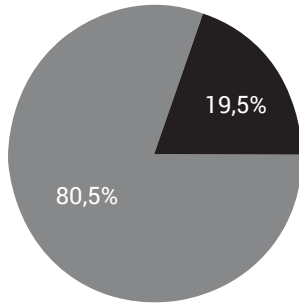
Have a chat



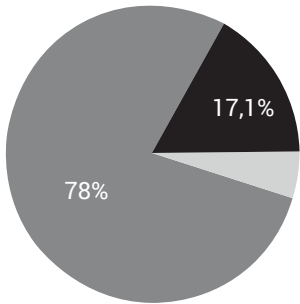
Doing laundry



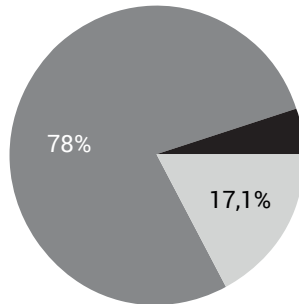
Play a game



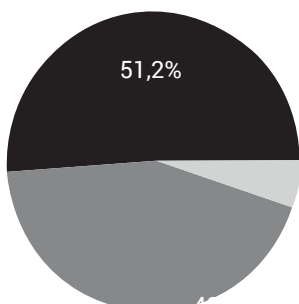
Cooking



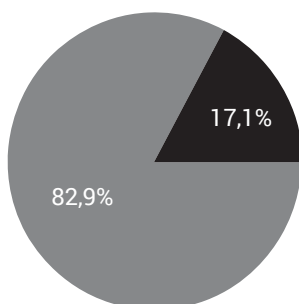
Go for a walk together



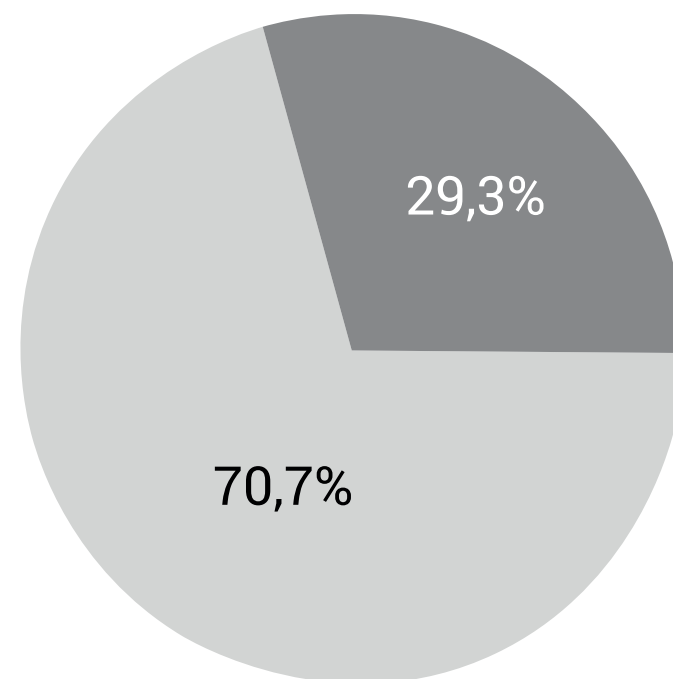
Cleaning



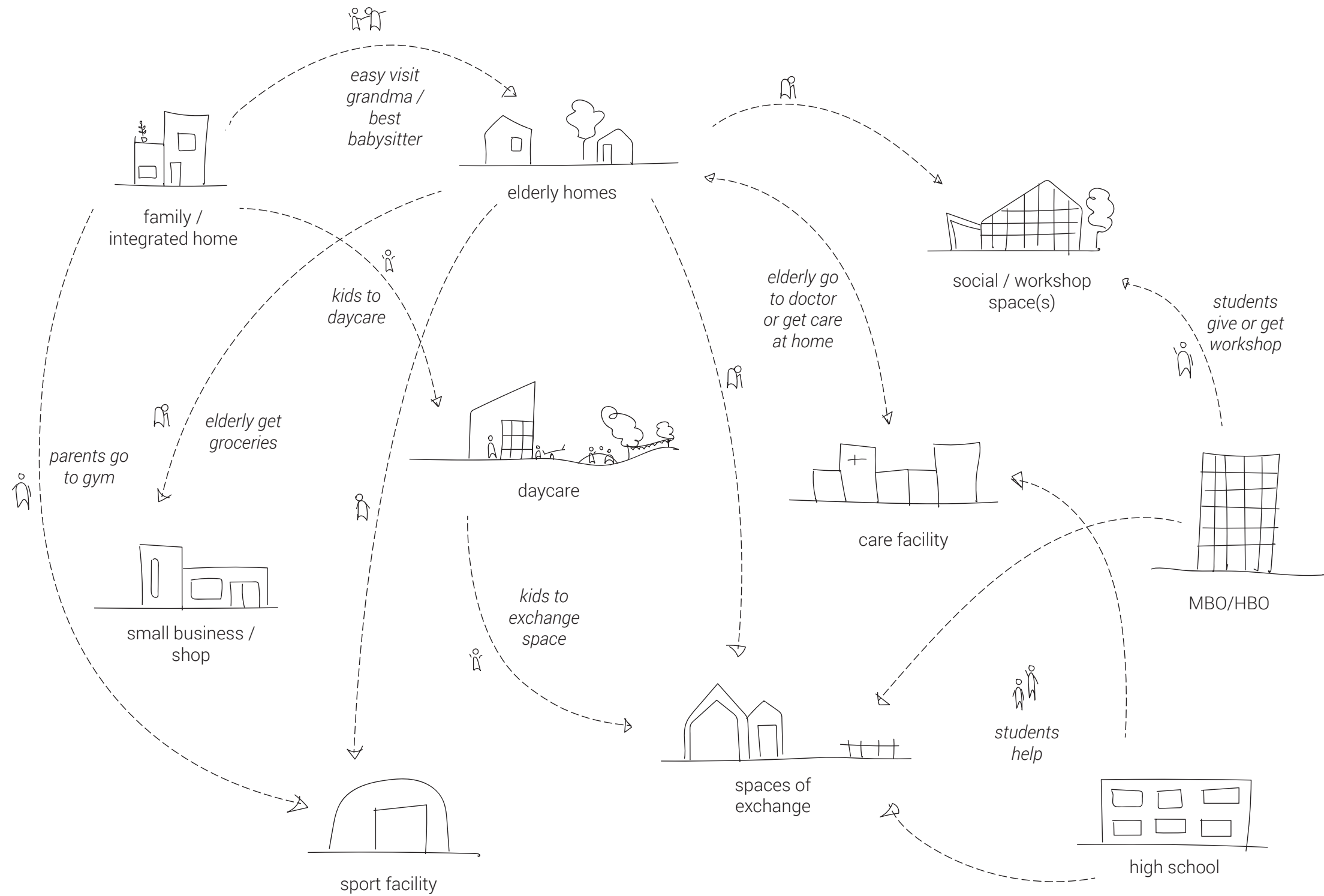
Help with technology



I would love to transfer my
knowlegde when I'm older



the concept



the goal

A place where elderly with and without care can live **TOGETHER WITH OTHERS**, which takes into account their wishes and needs and gives them something to look forward to. A place that stimulates them, encourages them to **PARTICIPATE** and contribute, enjoy, laugh and be part of society. In which people **LOOK AFTER EACH OTHER** and take care of each other. **A SOCIAL NET**. A place they can transfer their knowledge gathered throughout life, tell their stories, and one in which they can in turn learn from others.

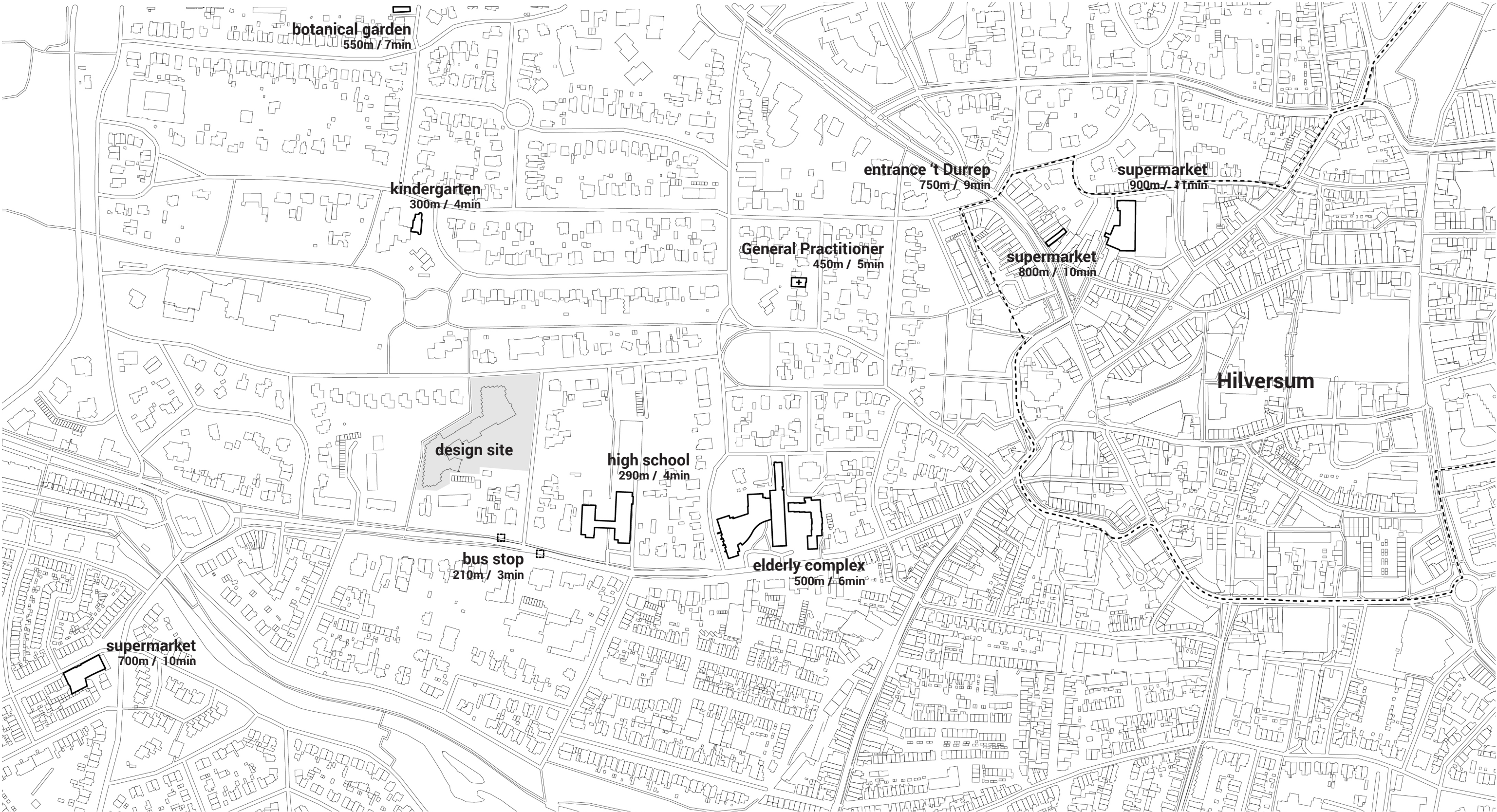
the goal



People Standing About by Laurence Stephen Lowry, 1935



the site



the site



the site



the site

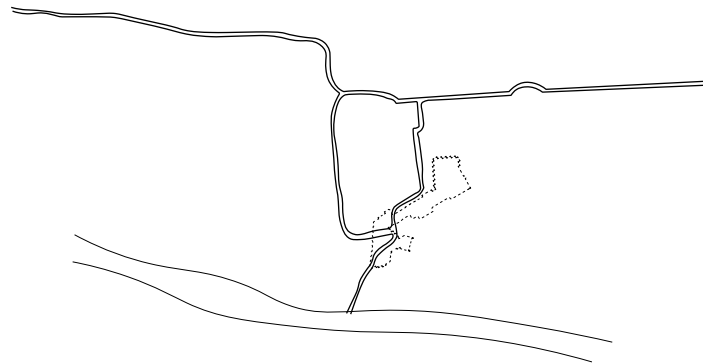


history of the site



Jan van Ravenswaay by John van Ravenswaay, 1841

history of the site



1835



1909



2019

“Uitdrukkelijk wordt bepaald, dat de publieke wandeling ten allen tijde zal moeten worden gelaten onverlet zoo als die nu is bestaande en alzoo eene belommerde wandeling opleverende”

- Jan van Ravenswaay

the surrounding



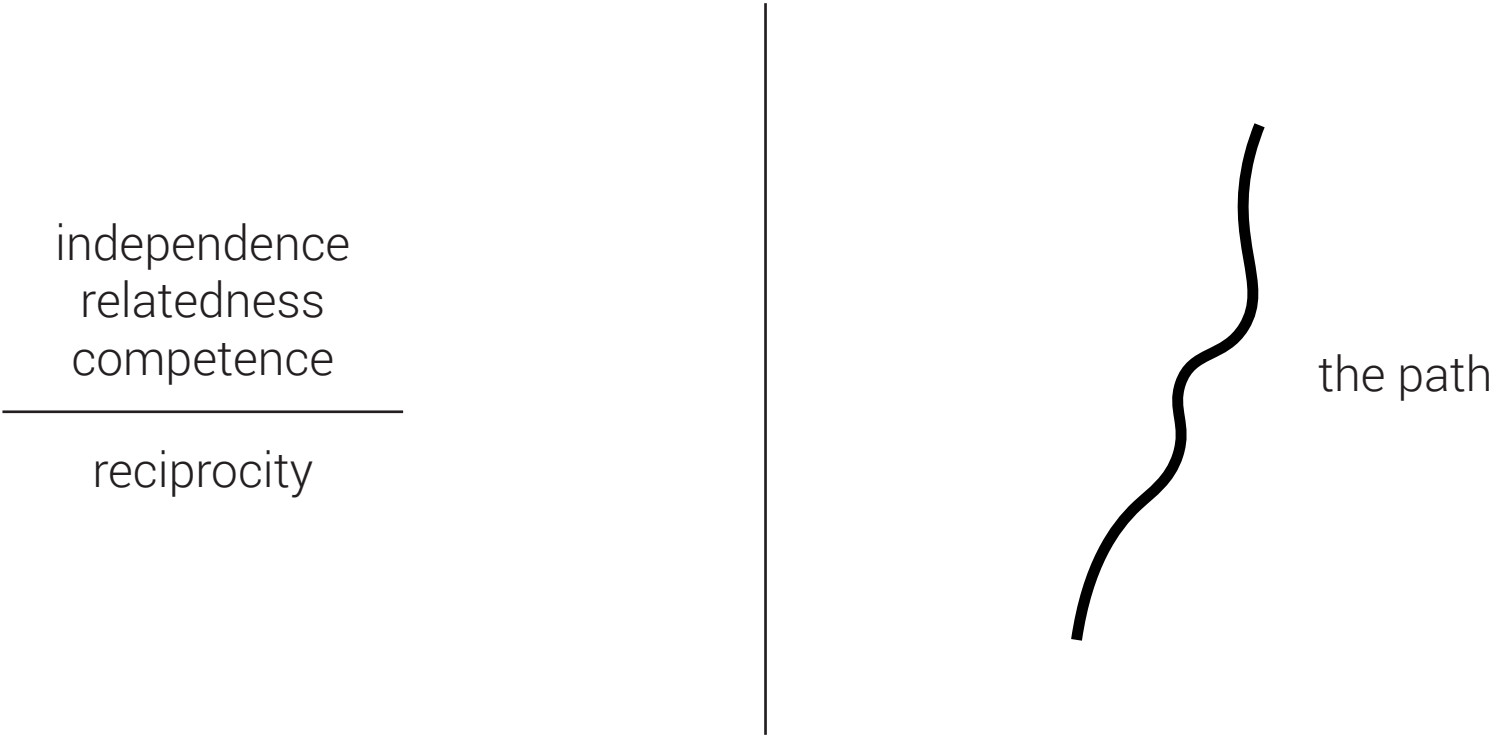
current situation



current situation



themes

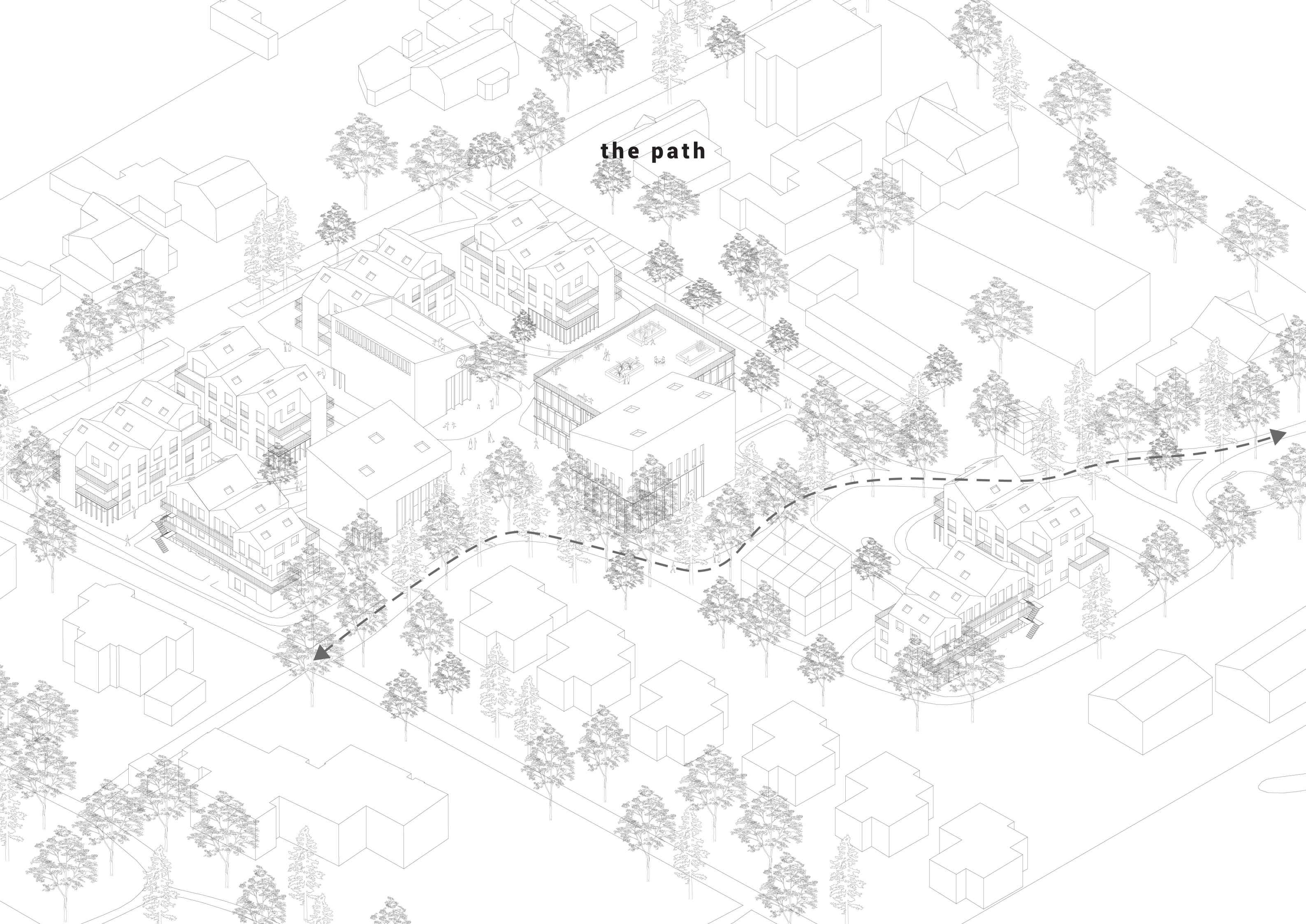


the design



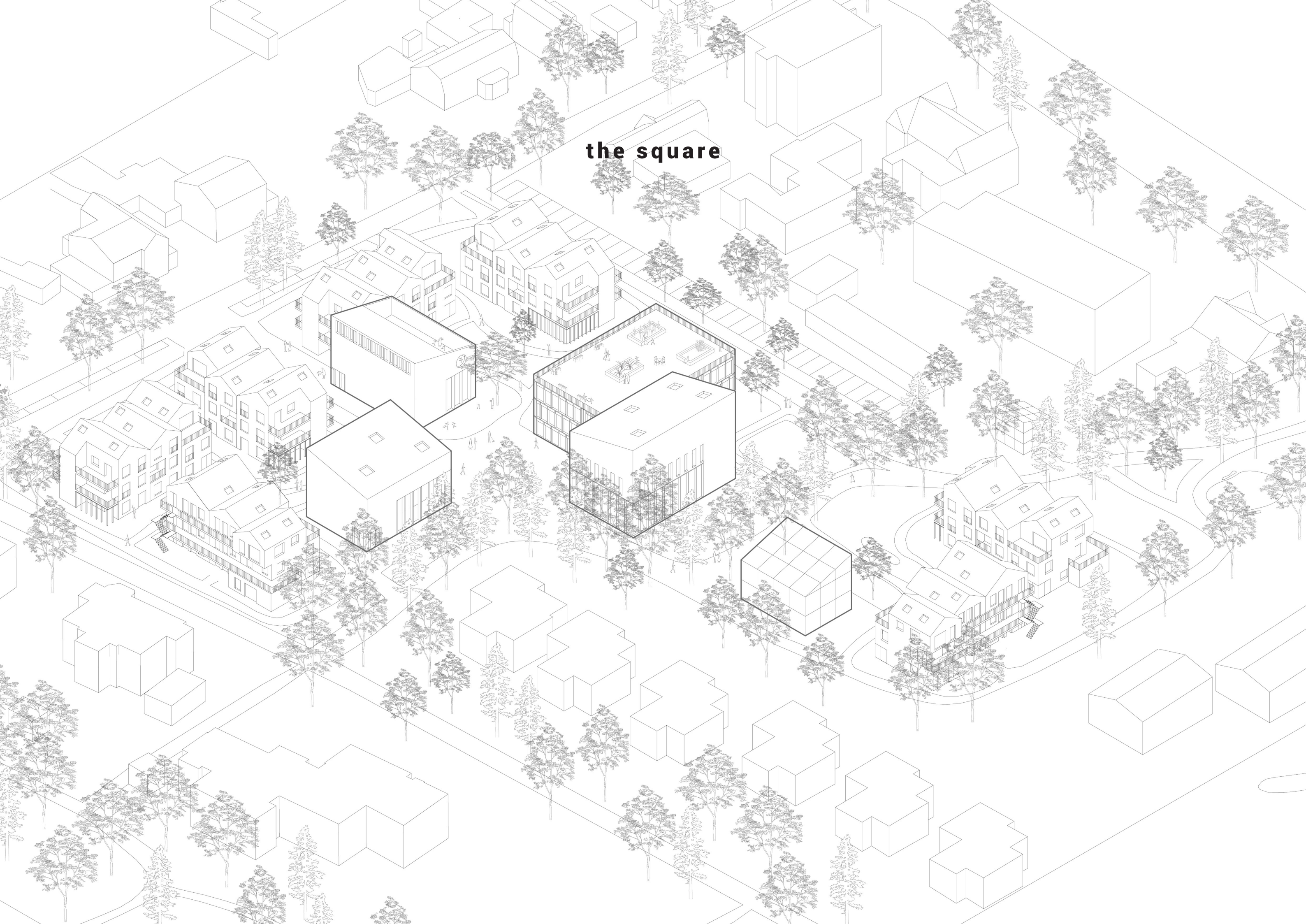
the dwellings





the path

the square





public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

▲ urban plan 1:1000



public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

Café

▲ urban plan 1:1000



public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

Café

Day care kids & elderly

▲ urban plan 1:1000



public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

Café

Day care kids & elderly

Swimming pool GF
Sports & Care office 2ND
Community centre

▲ urban plan 1:1000



public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

Café

Day care kids & elderly

Swimming pool GF
Sports & Care office 2ND
Community centre

Public living room
Roof garden + terrace

▲ urban plan 1:1000



public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

Café

Day care kids & elderly

Swimming pool GF
Sports & Care office 2ND
Community centre

Public living room
Roof garden + terrace

Atelier & Stories room

▲ urban plan 1:1000



public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

Café

Day care kids & elderly

Swimming pool GF
Sports & Care office 2ND
Community centre

Public living room
Roof garden + terrace

Atelier & Stories room

Pond & Water buffer

▲ urban plan 1:1000



Greenhouse

public functions

Supermarket GF
Flex (hairdresser / GP) 1ST

Café

Day care kids & elderly

Swimming pool GF
Sports & Care office 2ND
Community centre

Public living room
Roof garden + terrace

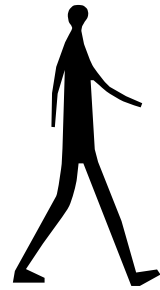
Atelier & Stories room

Pond & Water buffer

▲ urban plan 1:1000

a new centre for the neighbourhood





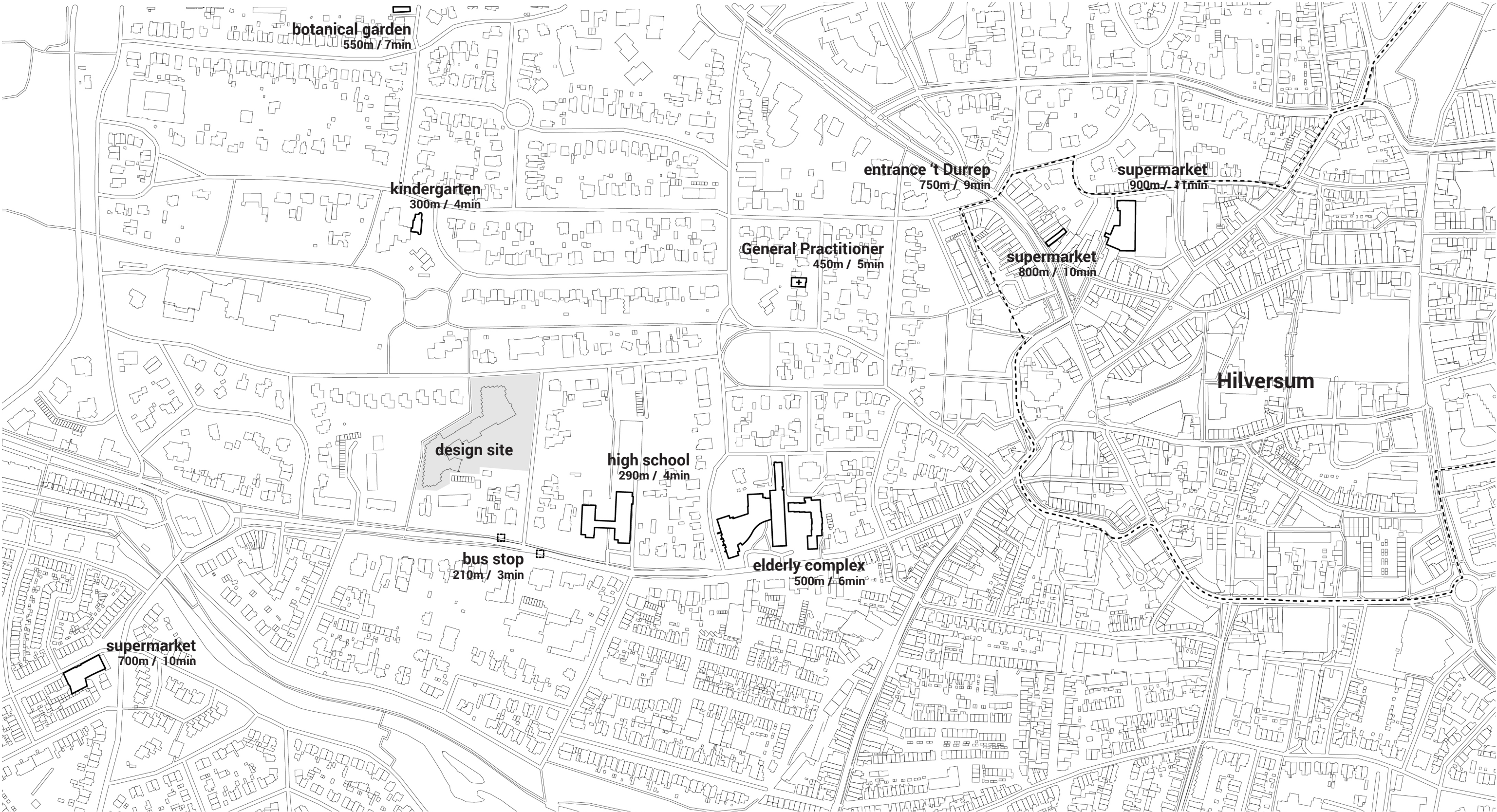
< 600 m



< 200 m

maximum walking distance

the site





consequence when facilities are too far ..



public functions

- +** meet daily needs
- +** stimulate to go out
- +** encourage interaction
- +** increase engagement

the ensembles



the green ensemble

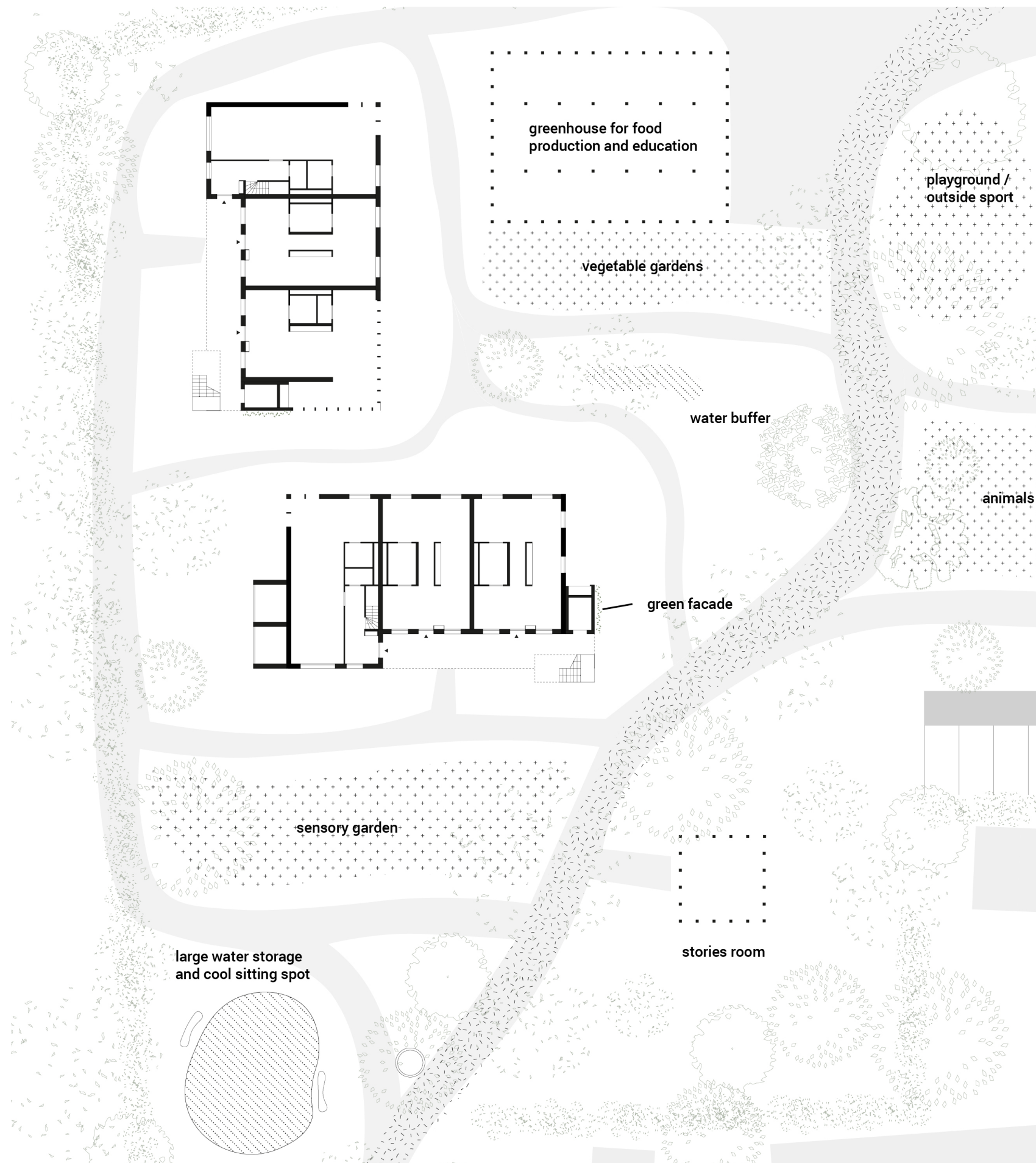


the social ensemble



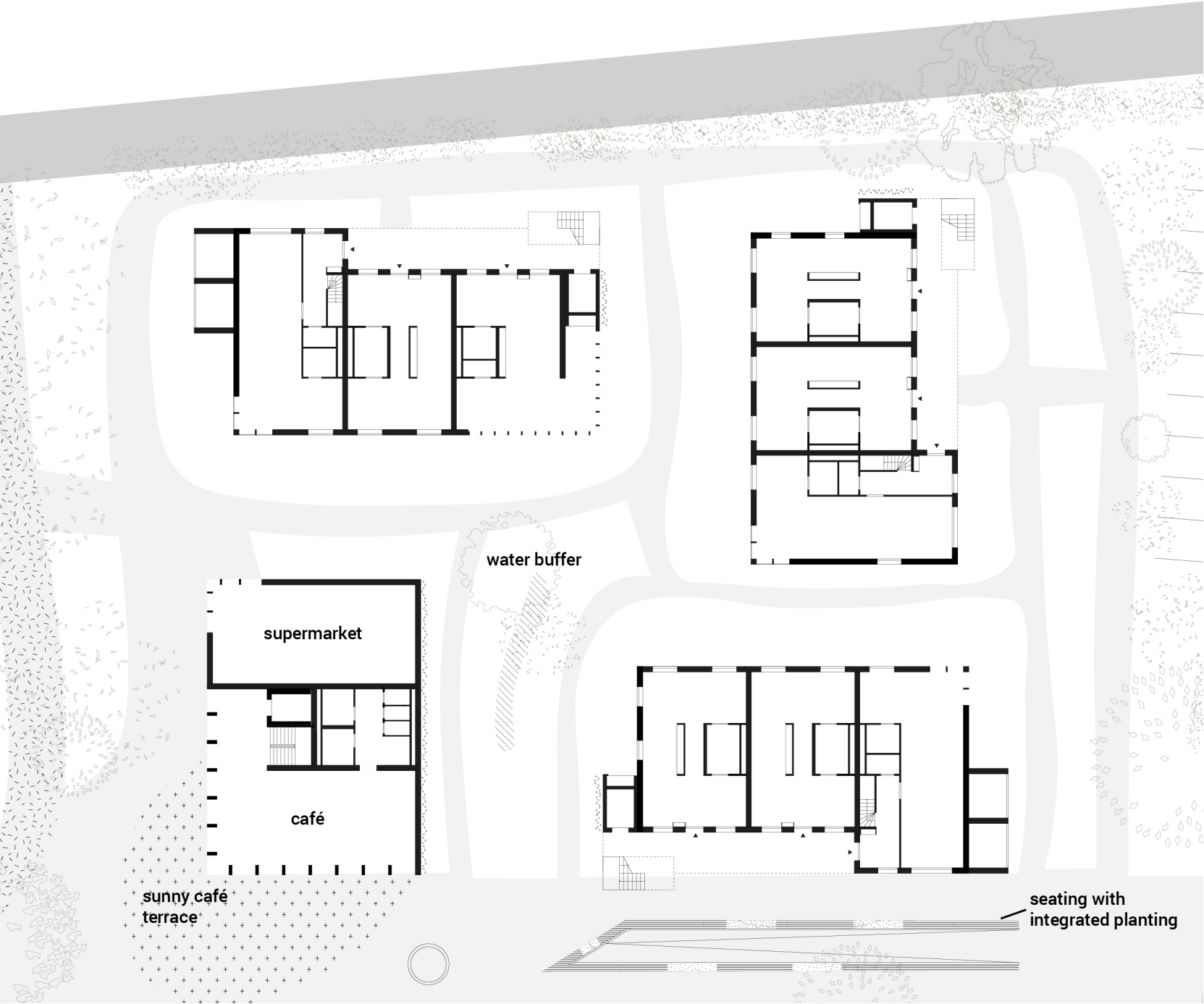
the active ensemble



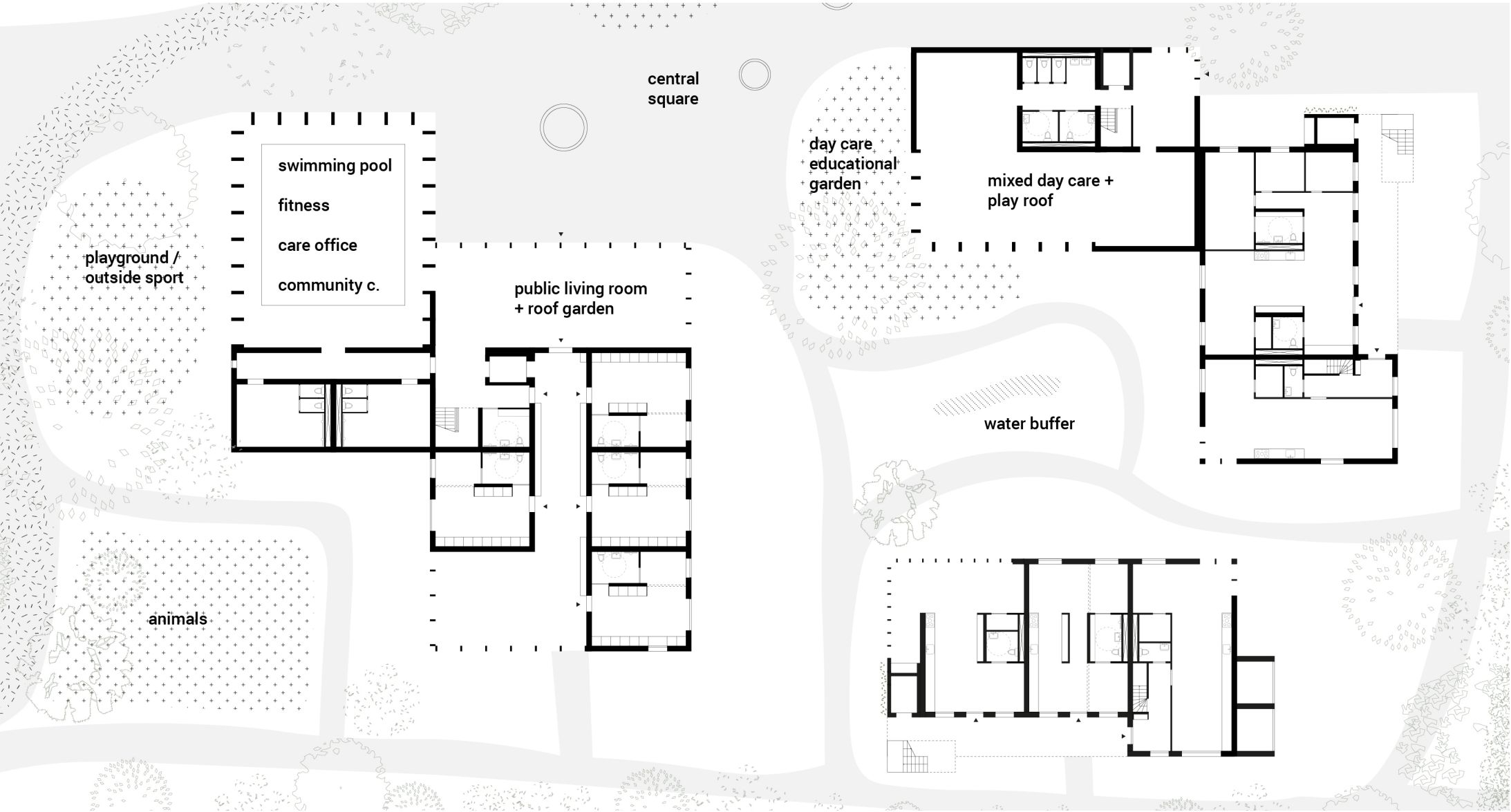


green ensemble

social ensemble



active ensemble



active ensemble

HET



active ensemble

to underground
(bike) storage

swimming pool

public living room

daycare

flexible home

24h care

communal space

family homes

communal space

elderly home

parking



active ensemble

to underground
(bike) storage

swimming pool

daycare

public living room

flexible home

24h care

communal space

family homes

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elderly home

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active ensemble

to underground
(bike) storage

swimming pool

public living room

daycare

flexible home

24h care

communal space

family homes

communal space

elderly home

parking





public living room

why a 24hr care facility ... ?

a slow transition towards informal care !

flexibility

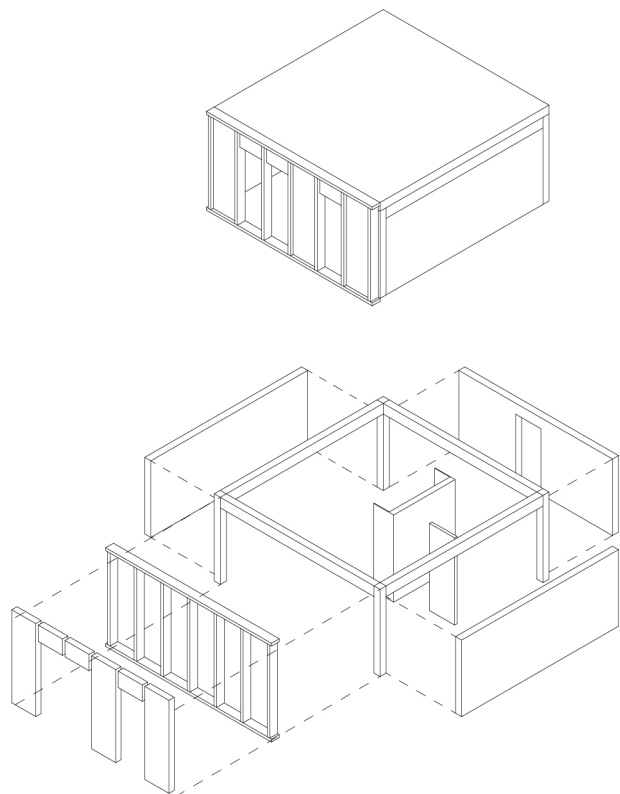
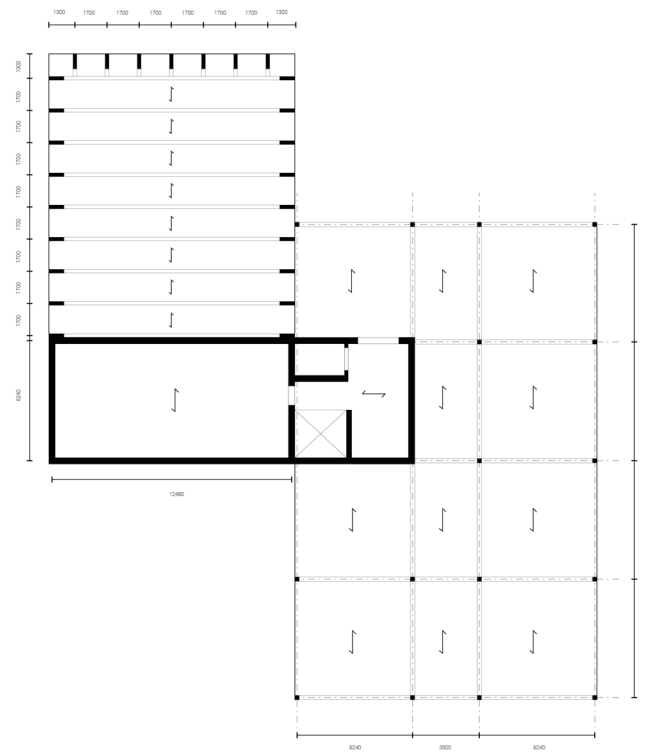


public buildings

flexible timber construction:

laminated collums and beams

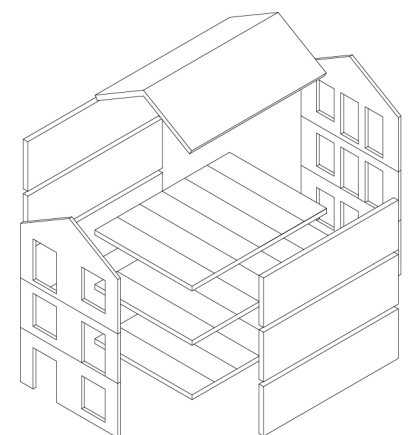
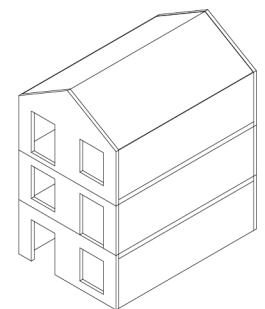
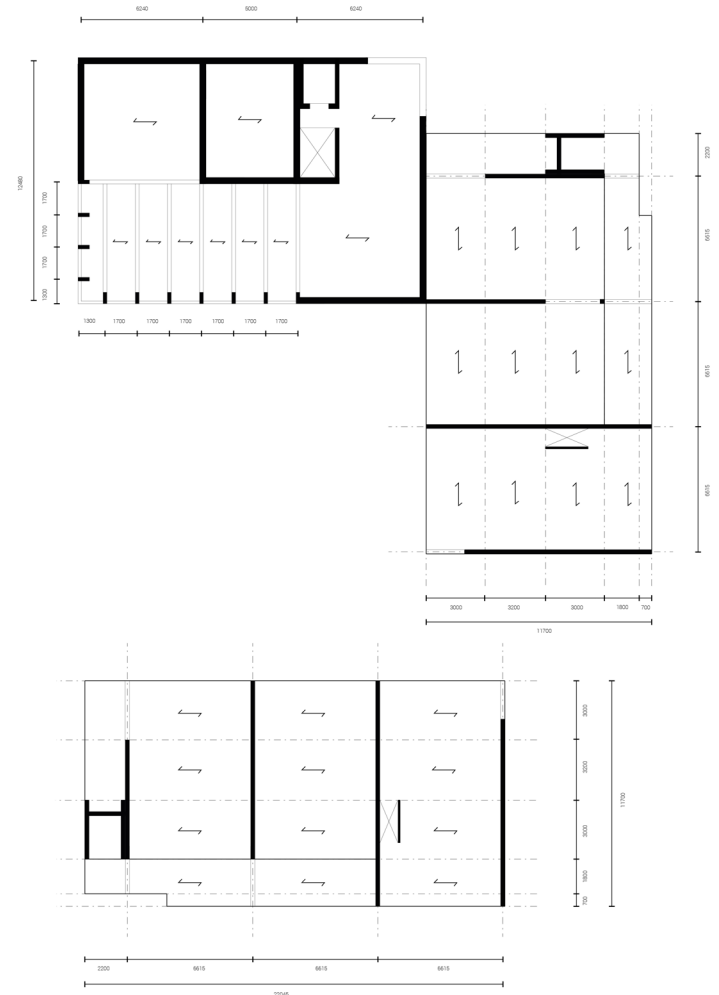
CLT core



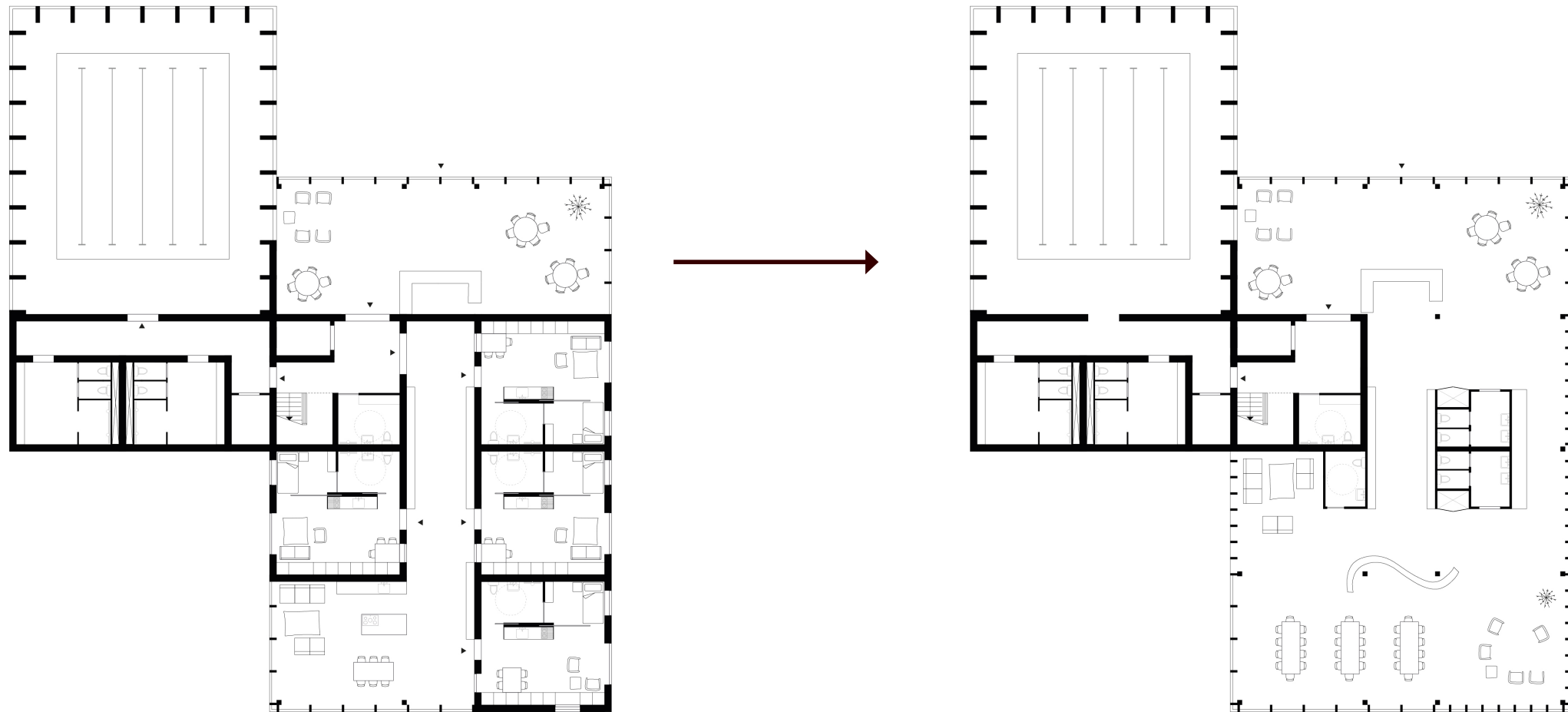
dwellings

permanent timber construction:

HSB prefab panels (timber frame)



a new function



active ensemble

to underground
(bike) storage

swimming pool

public living room

daycare

flexible home

24h care

communal space

family homes

communal space

elderly home

parking



intergenerational care

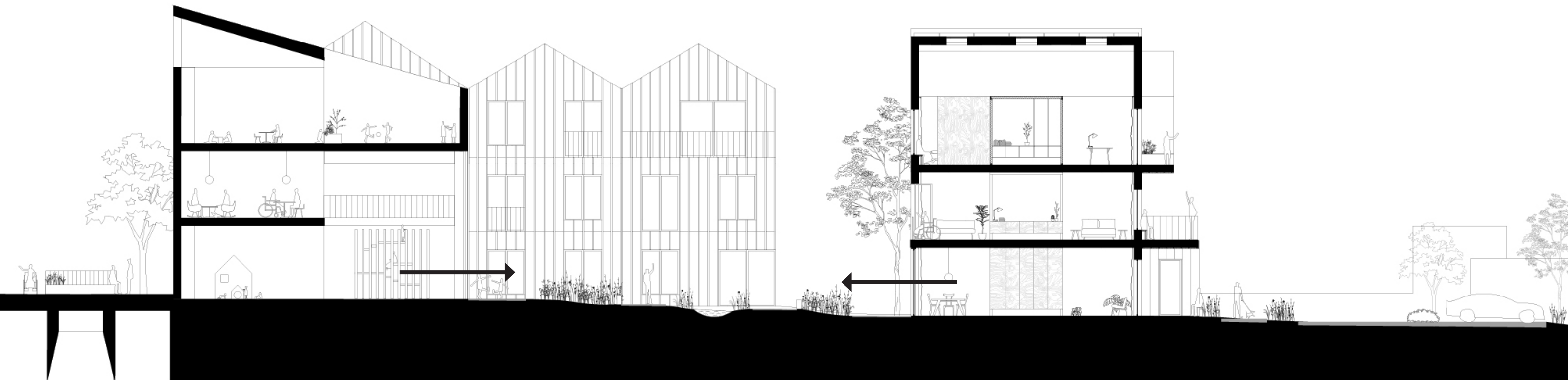


© CNN

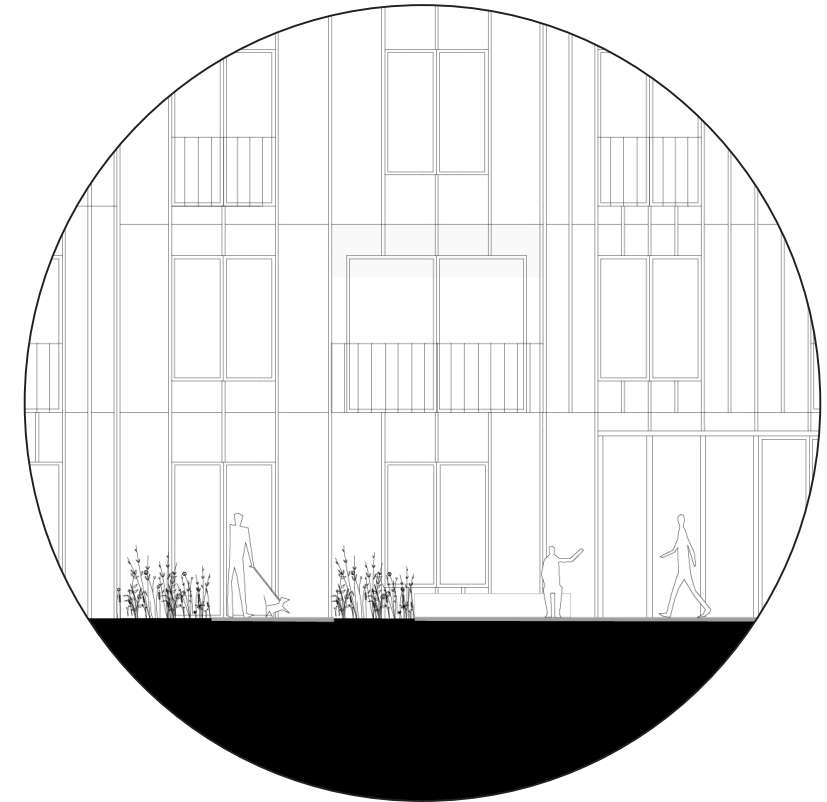
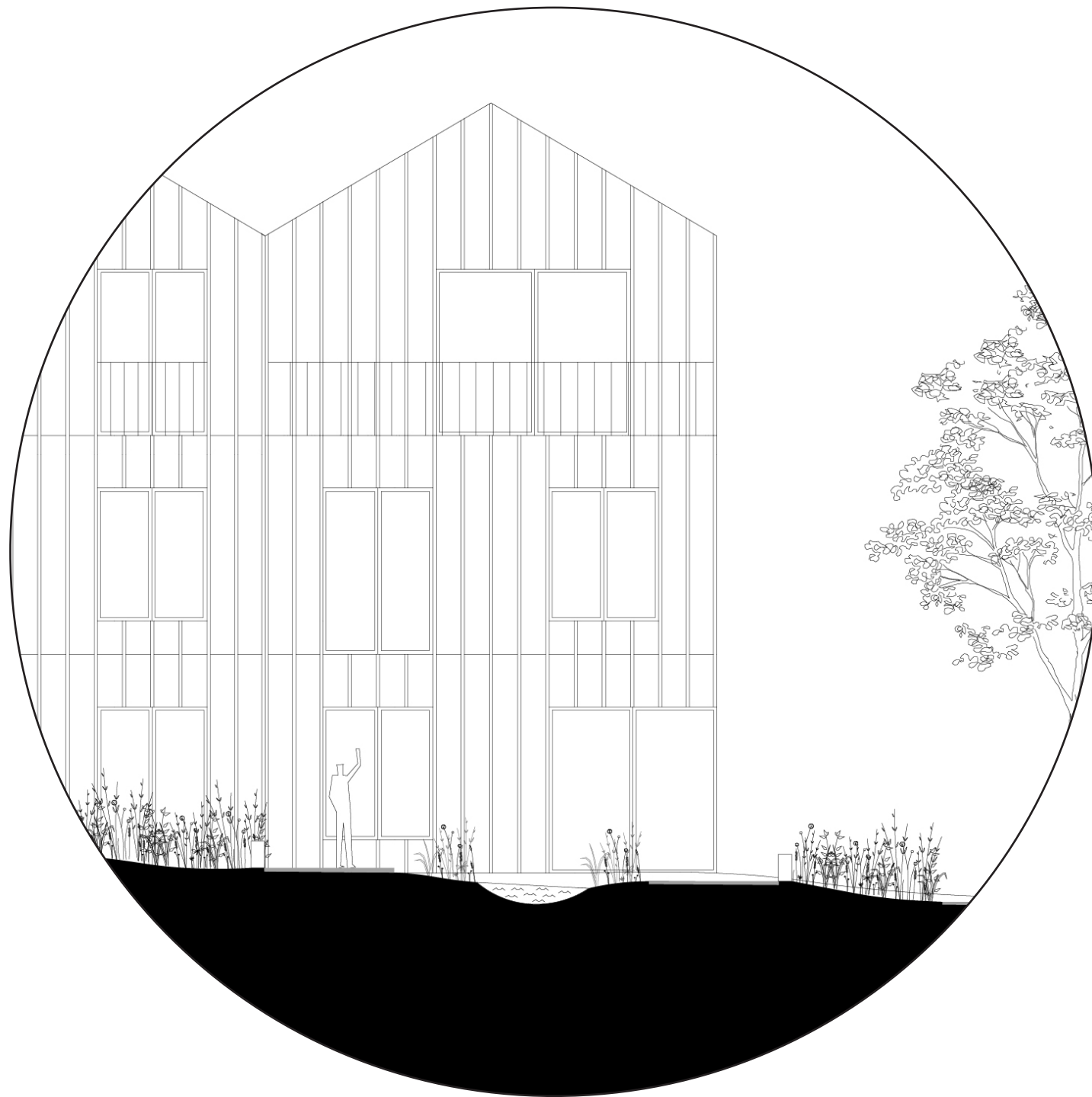
intergenerational care

- +** increases sense of purpose
- +** encourages interaction
- +** reduces loneliness and depression
- +** stimulates physical activity
- +** children get familiar with growing old

the garden

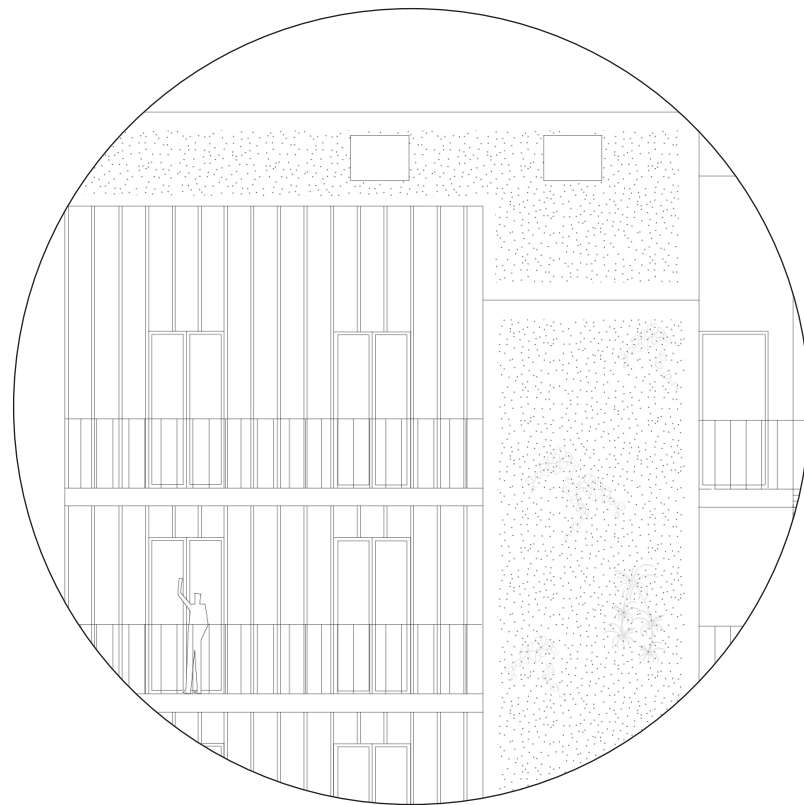


the garden

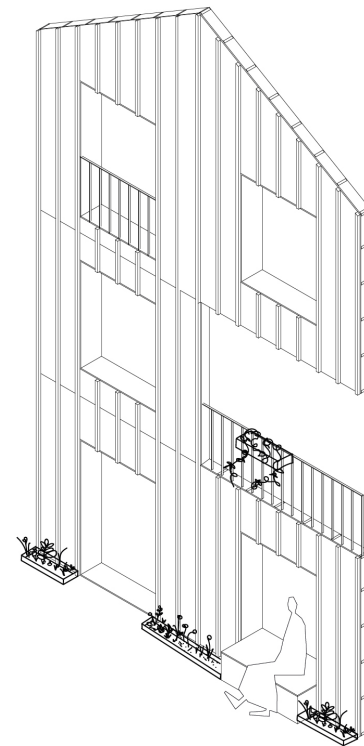


- + collection of rainwater
- + benches stimulate interaction
- + enlarge biodiversity & consciousness

the facade

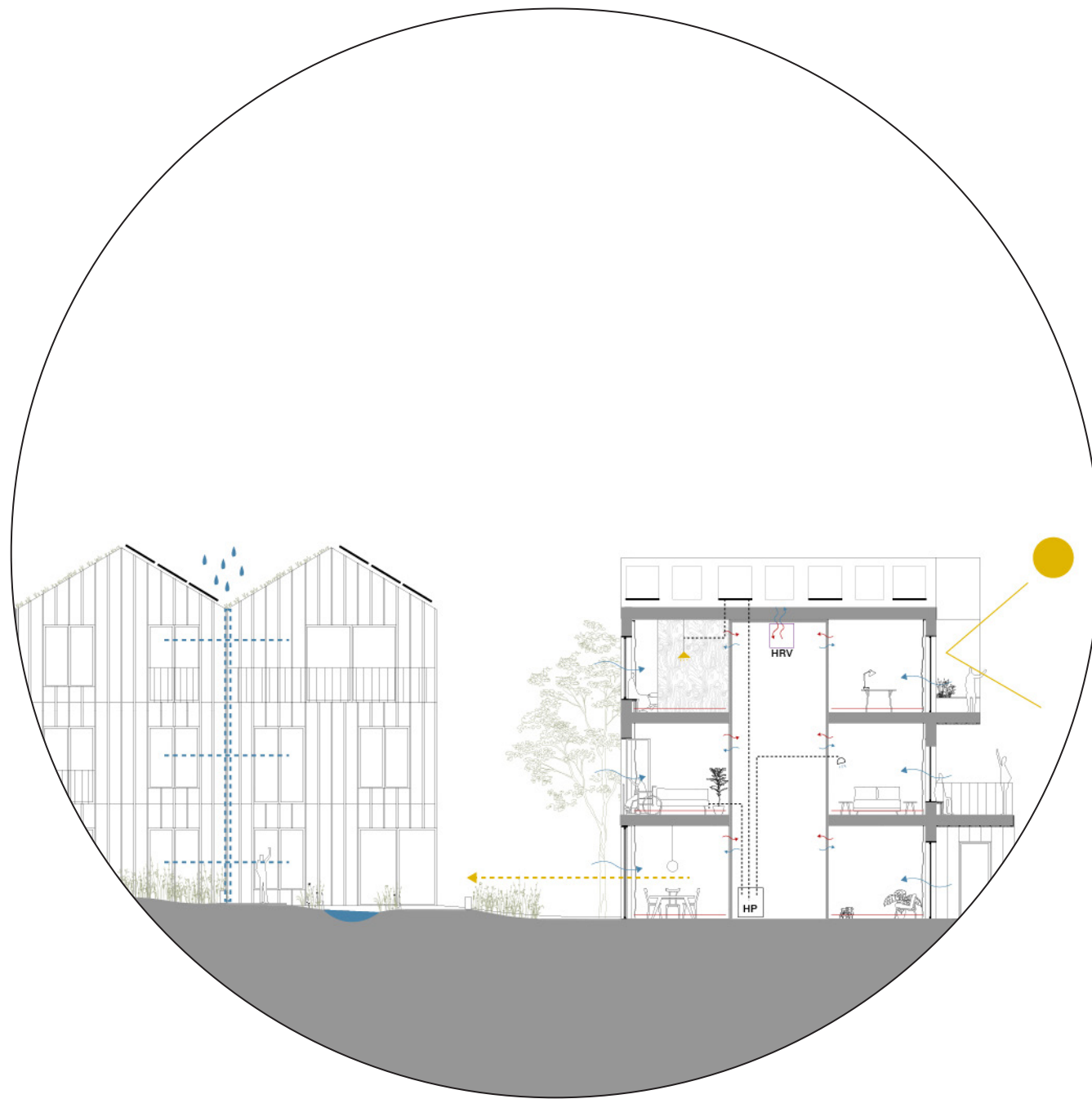


bamboo and green facades



- + negative carbon footprint
- + high fire resistance
- + minimum maintenance
- + enlarge biodiversity

the roofscape



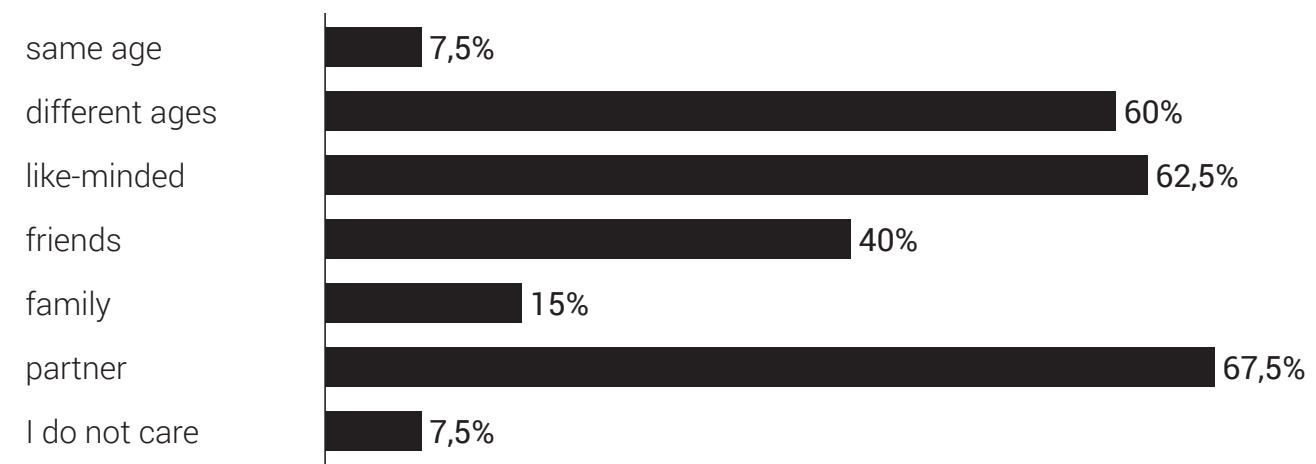
- + recognisable
- + reuse of rainwater
- + generating energy and heat
- + good insulation

the dwellings



mix of target groups

Who would you want to live with?



mix of target groups

- +** encourages interaction
- +** keeps young and active
- +** improves engagement
- +** makes informal care possible



taking care of each other

collective spaces



collective spaces



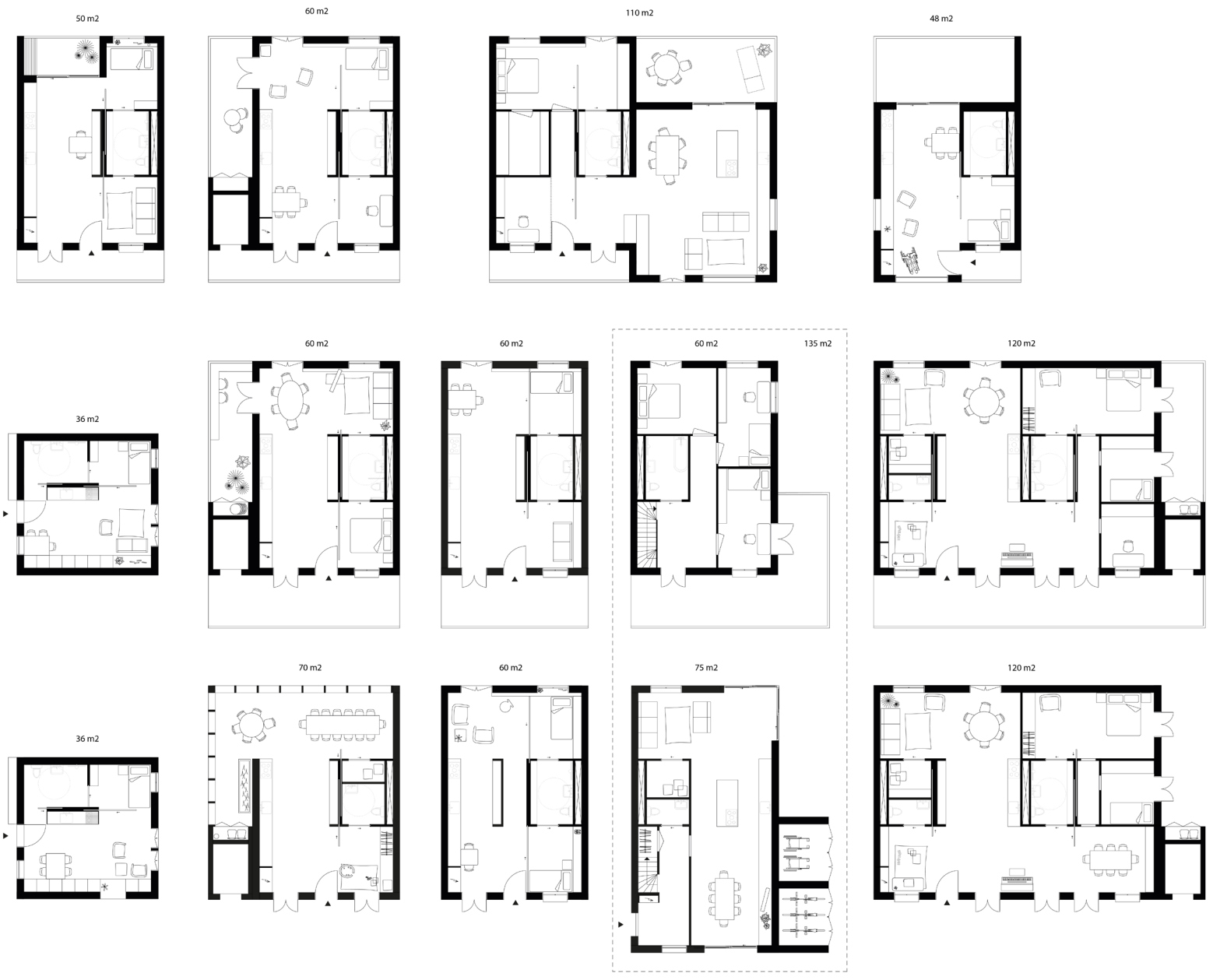
collective spaces



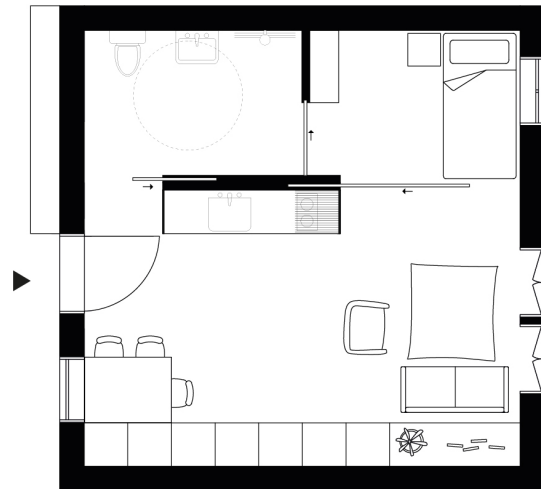
the gallery



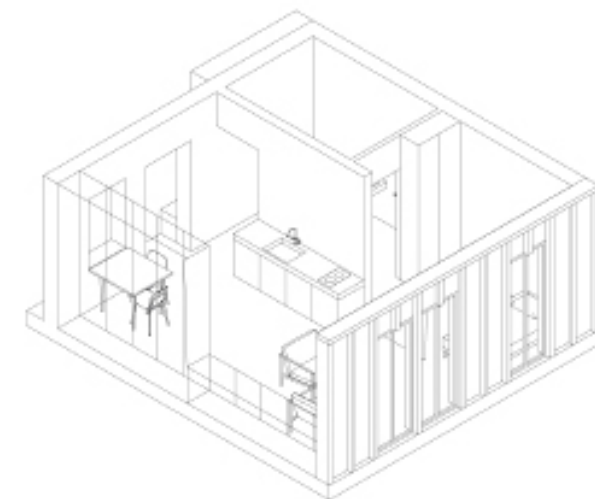
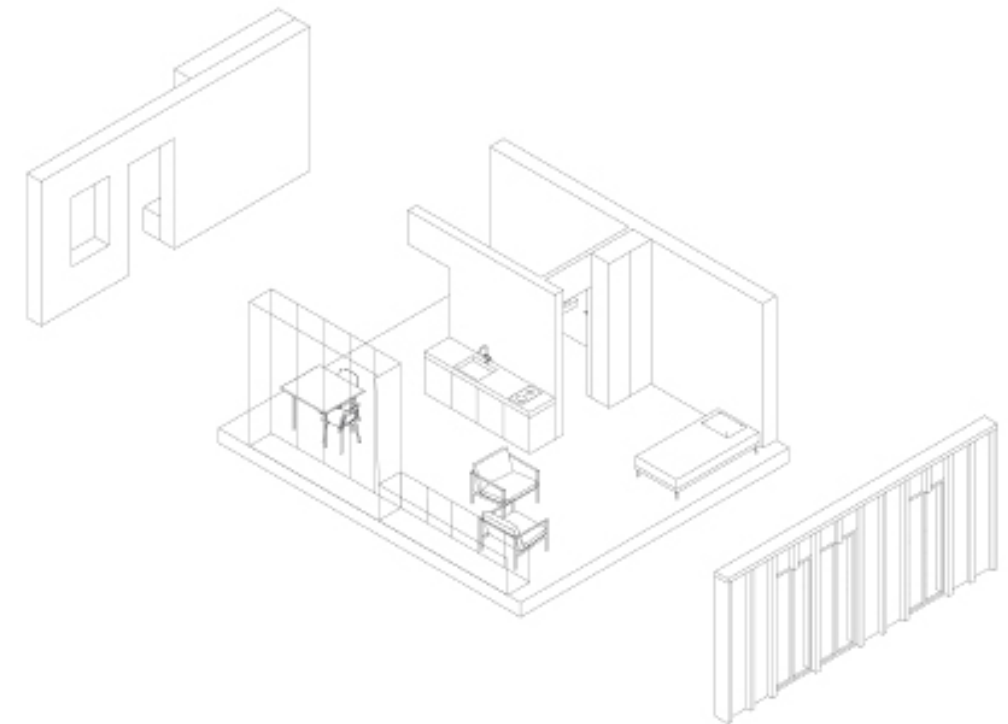
the home



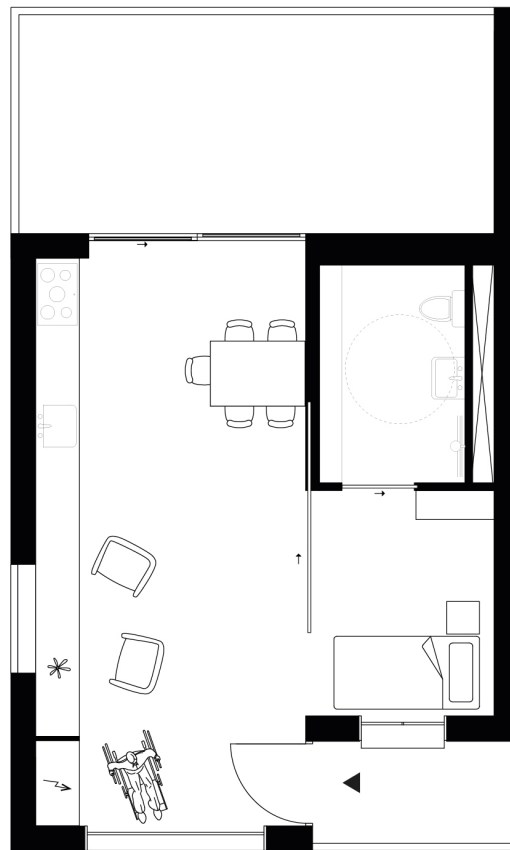
type A



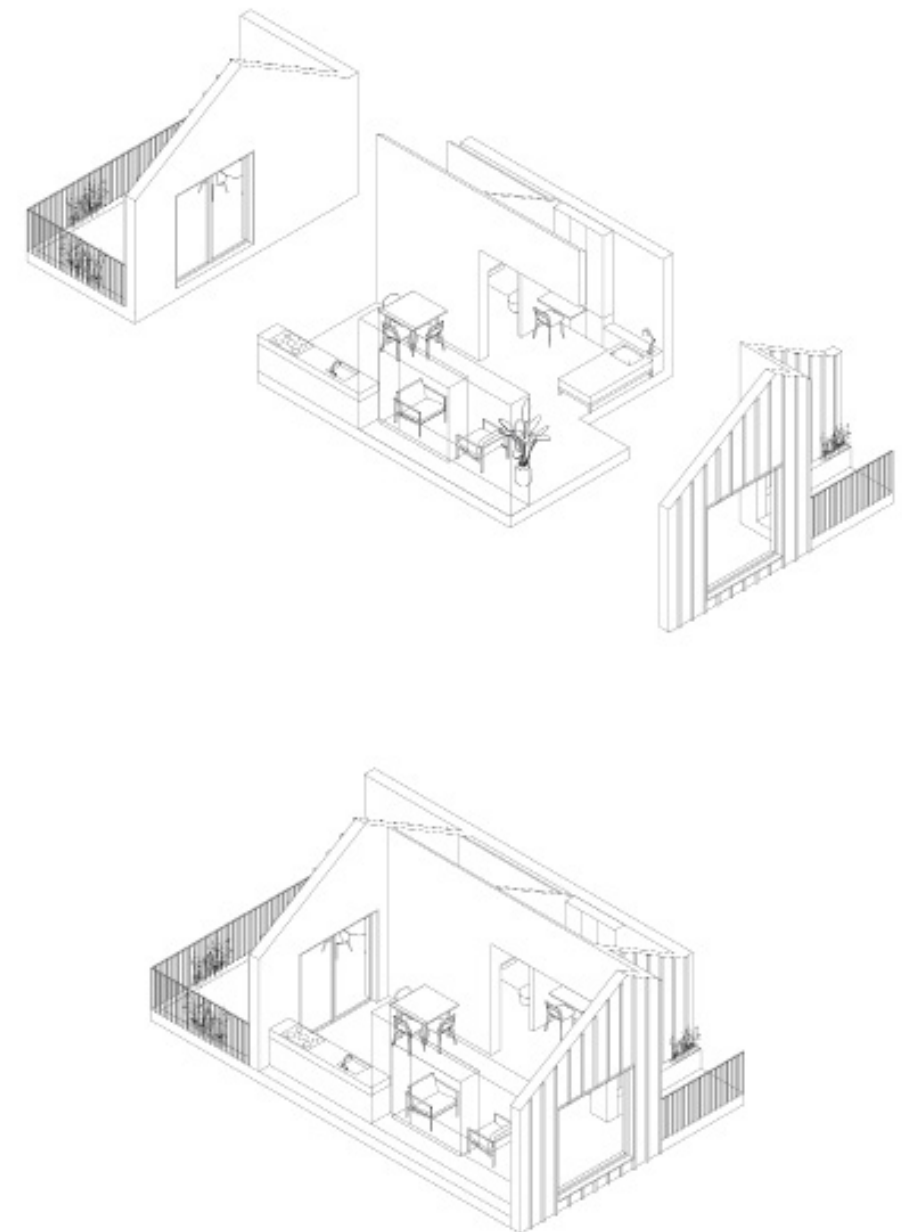
15 x 36 m²



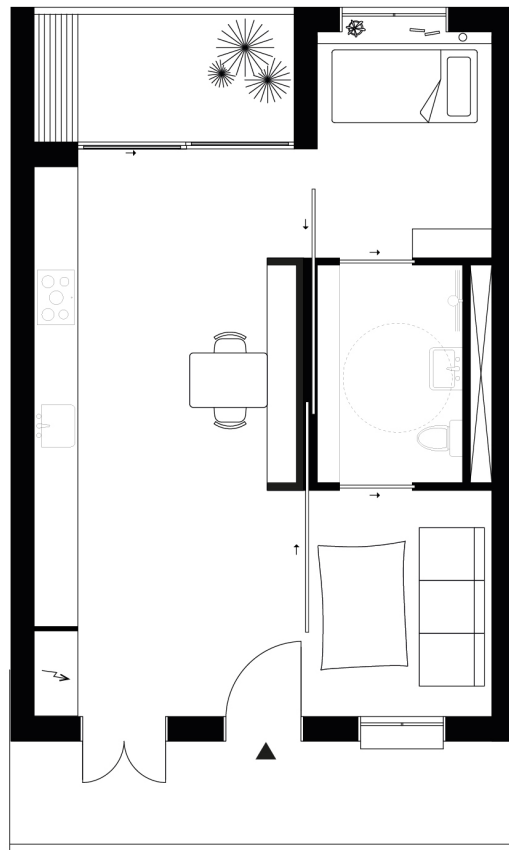
type B



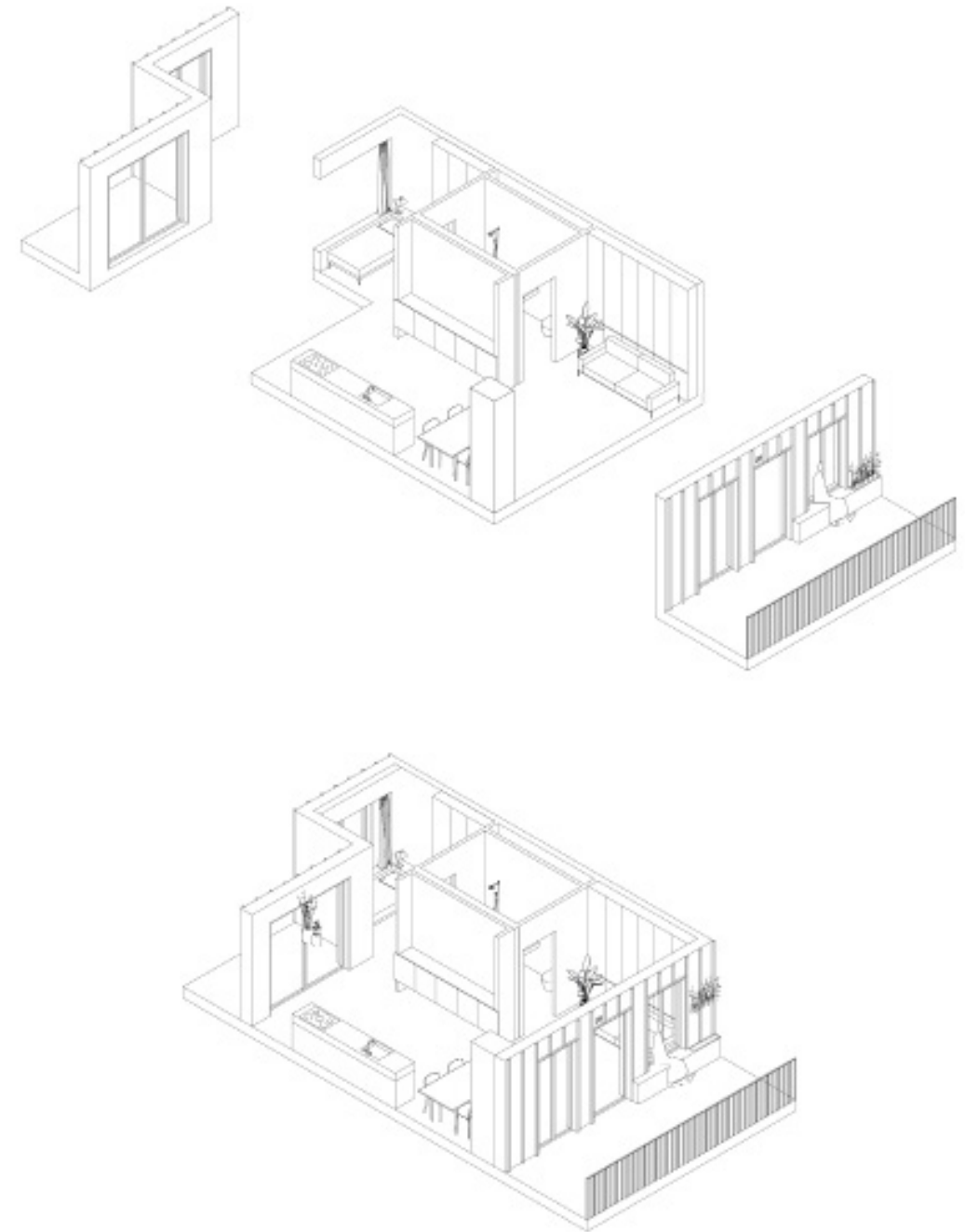
1 x 48 m²



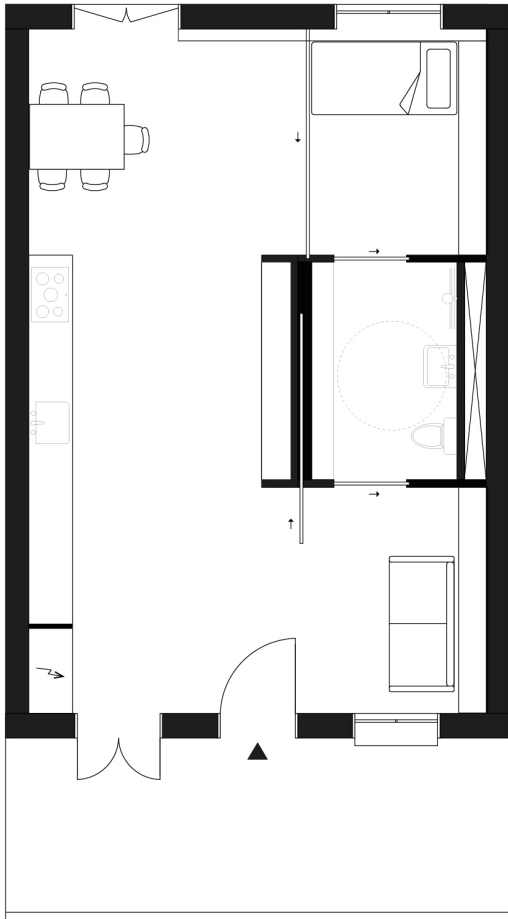
type C



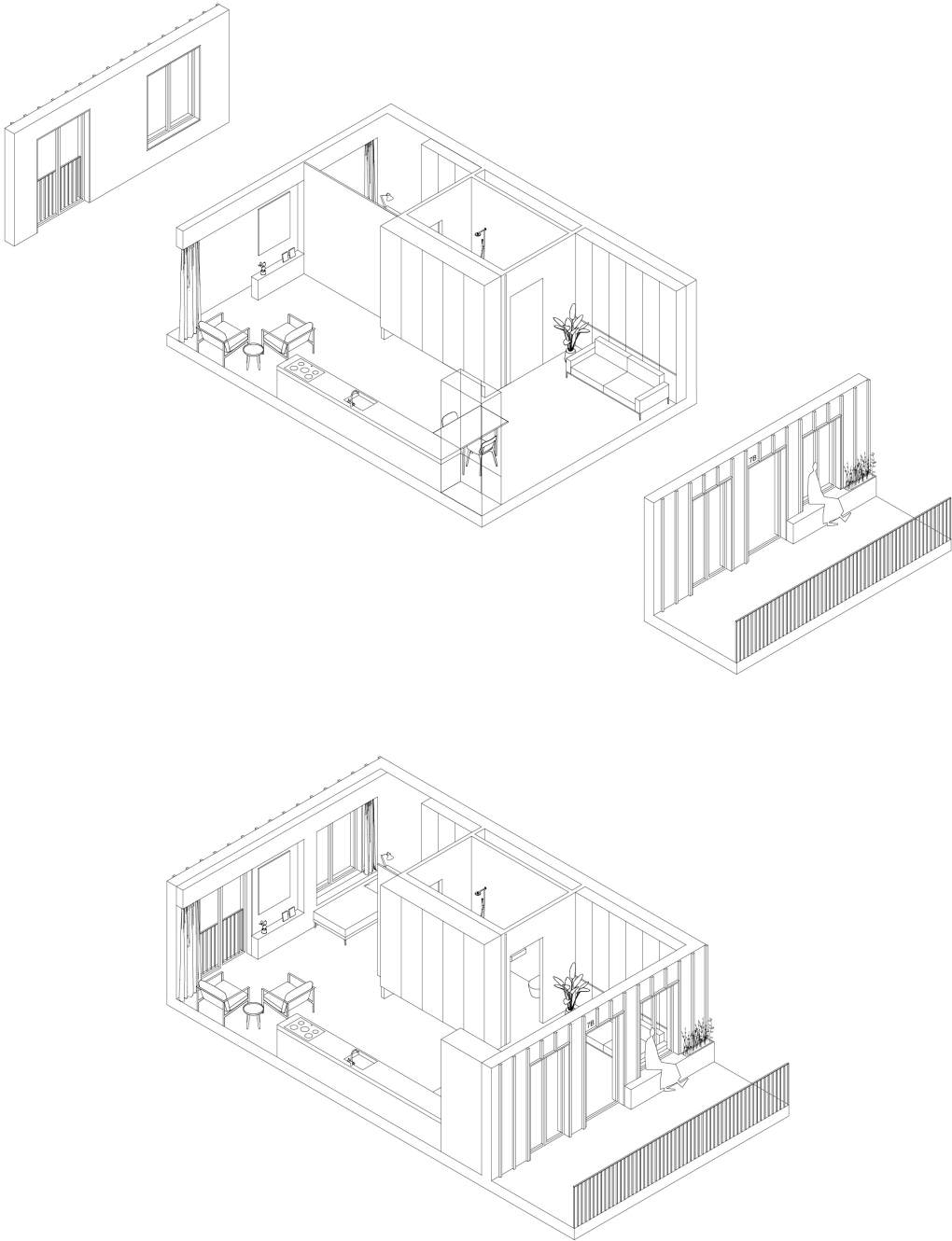
6 x 50 m²



type D



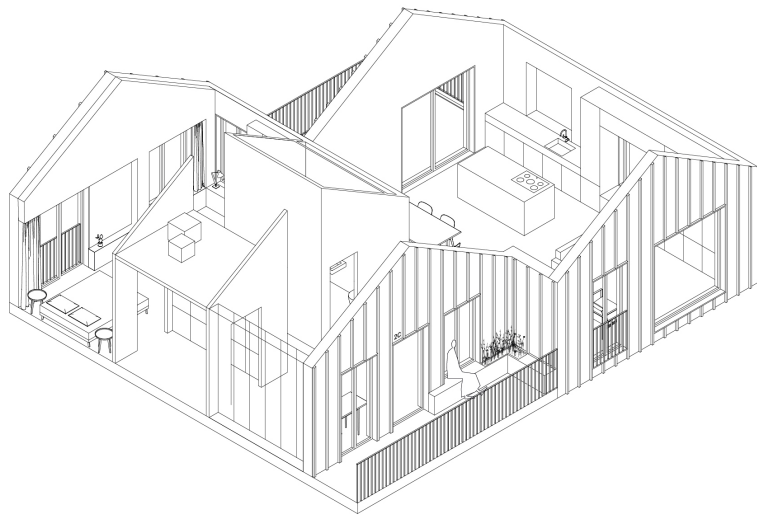
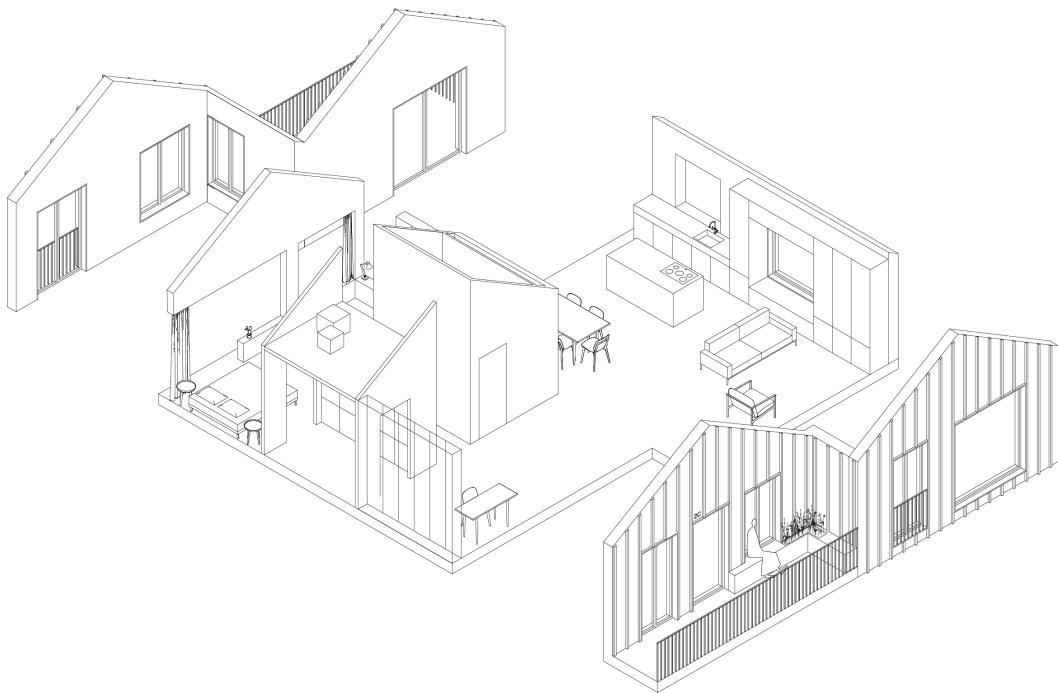
24 x 60 m2



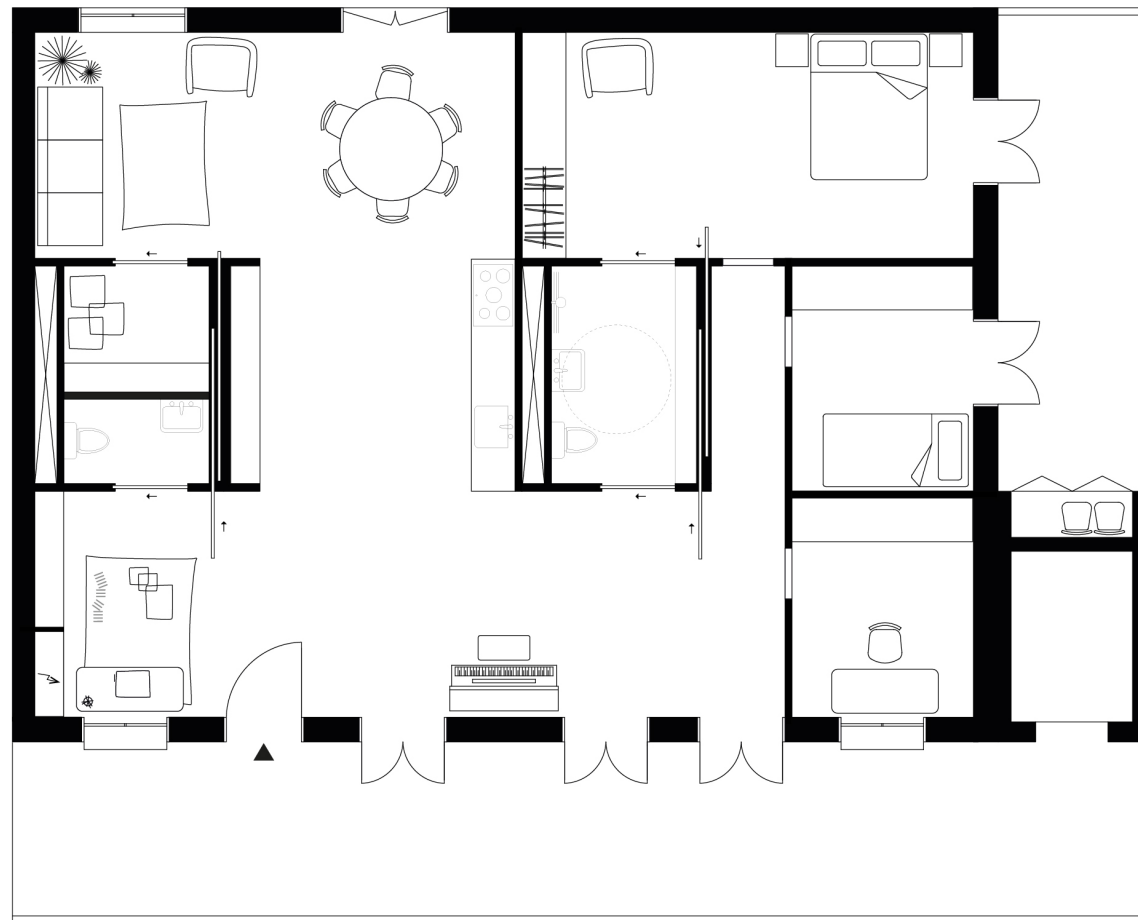
type E



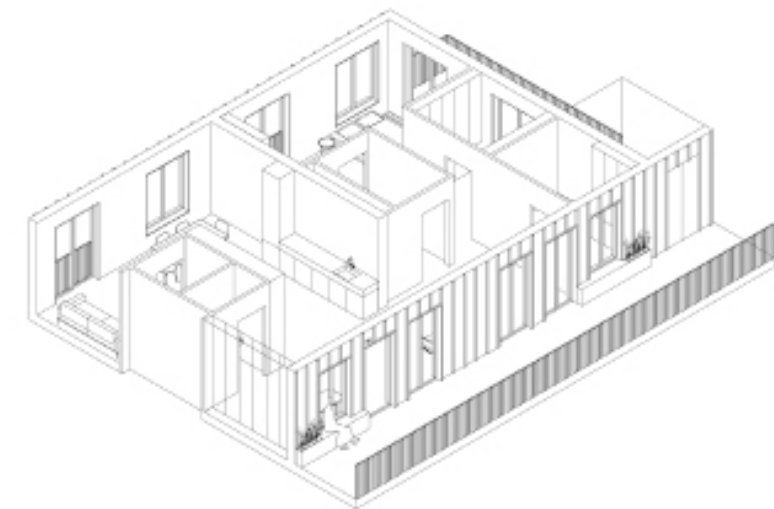
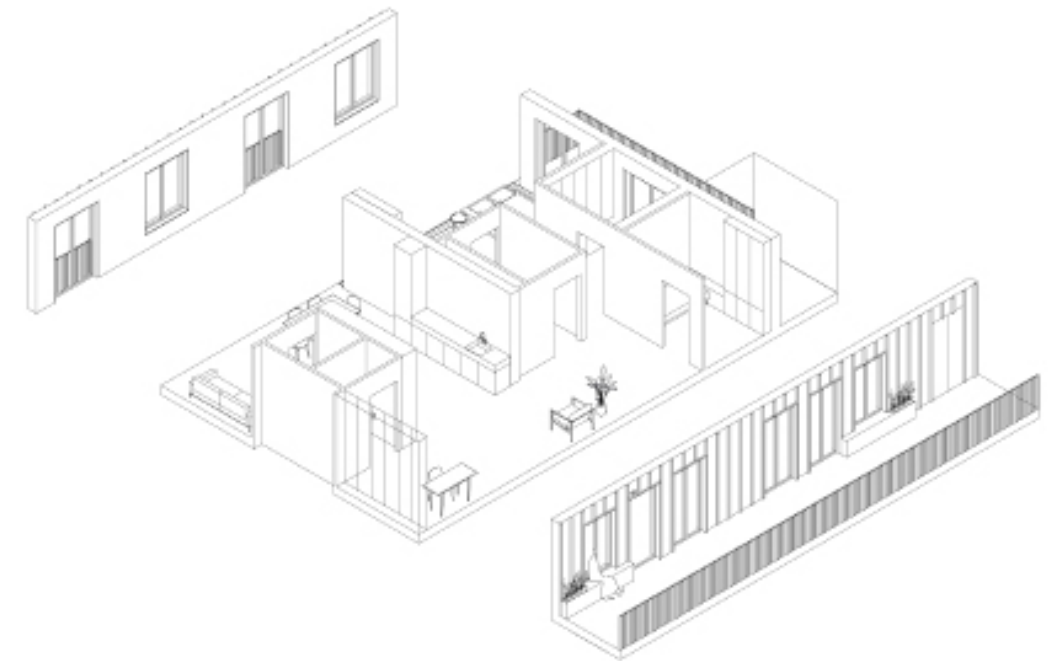
6 x 110 m2



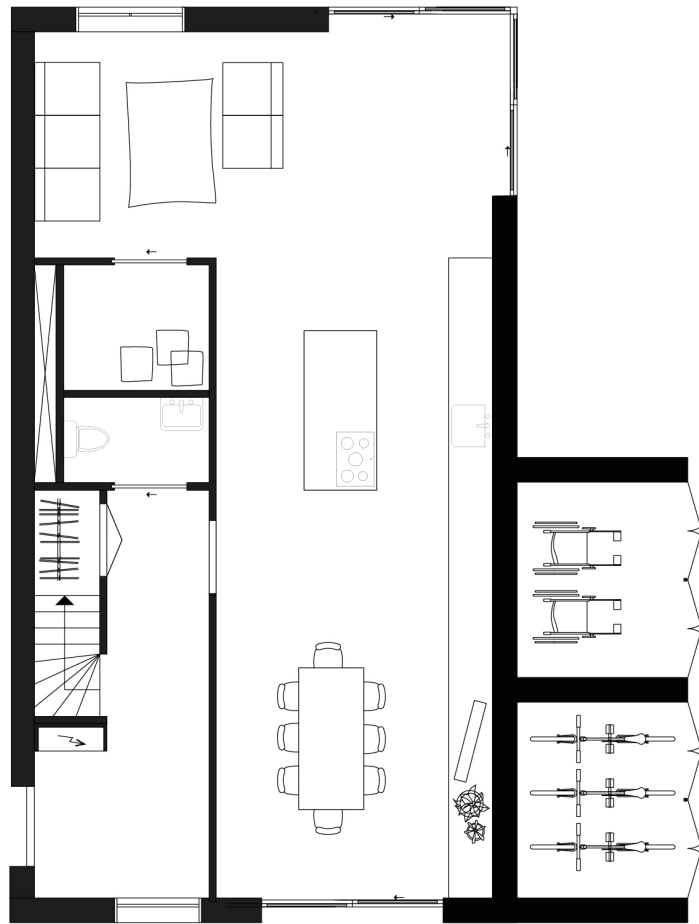
type F



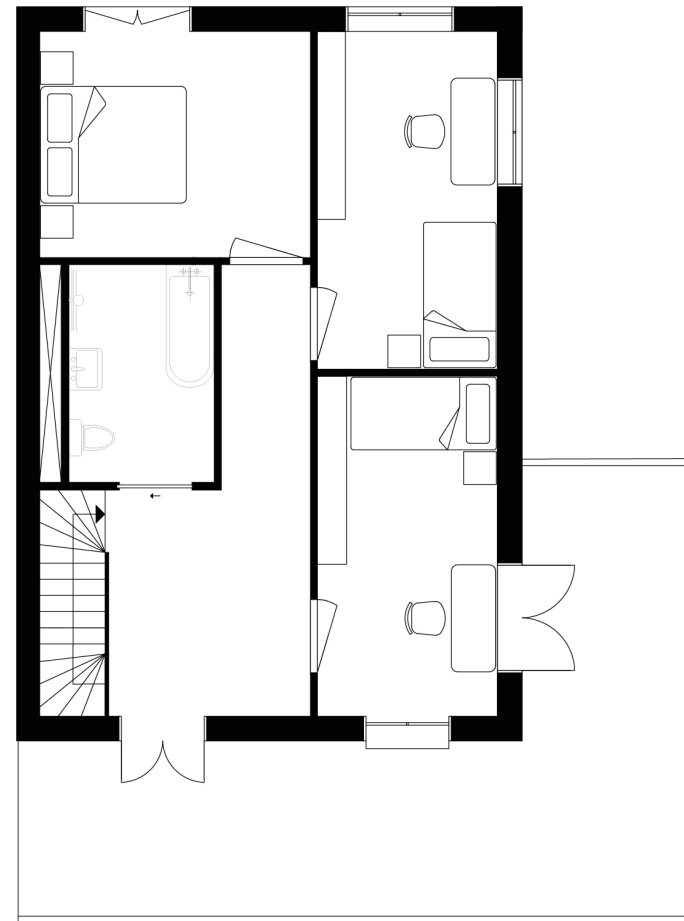
3 x 120 m²



type G

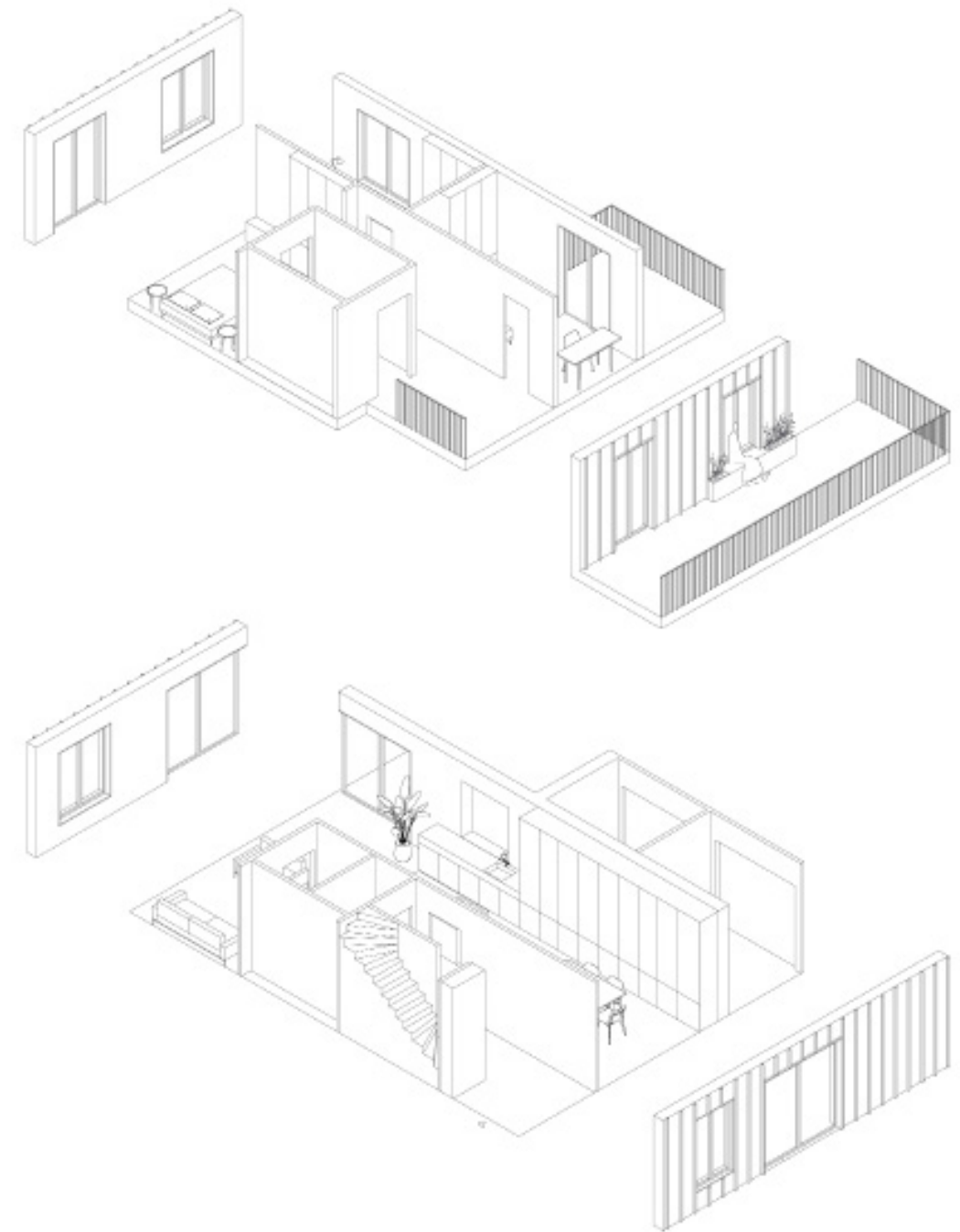


ground floor



first floor

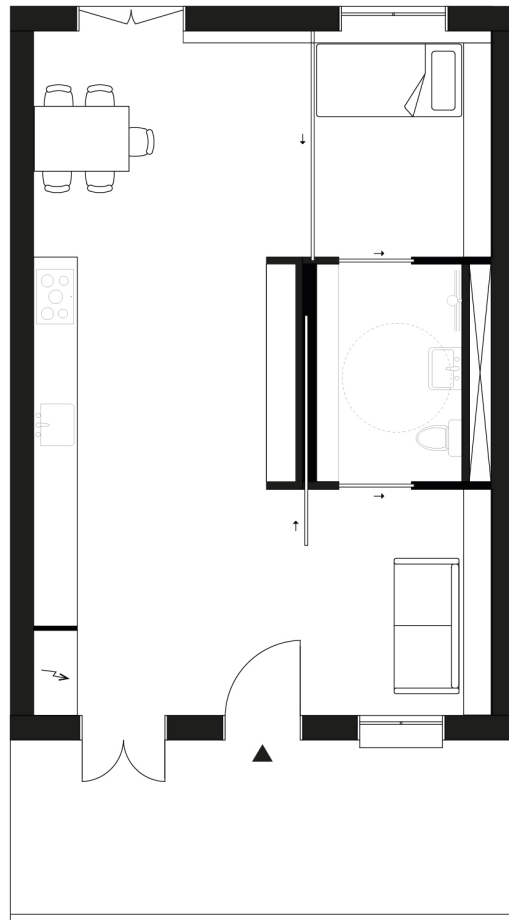
7 x 130 m²



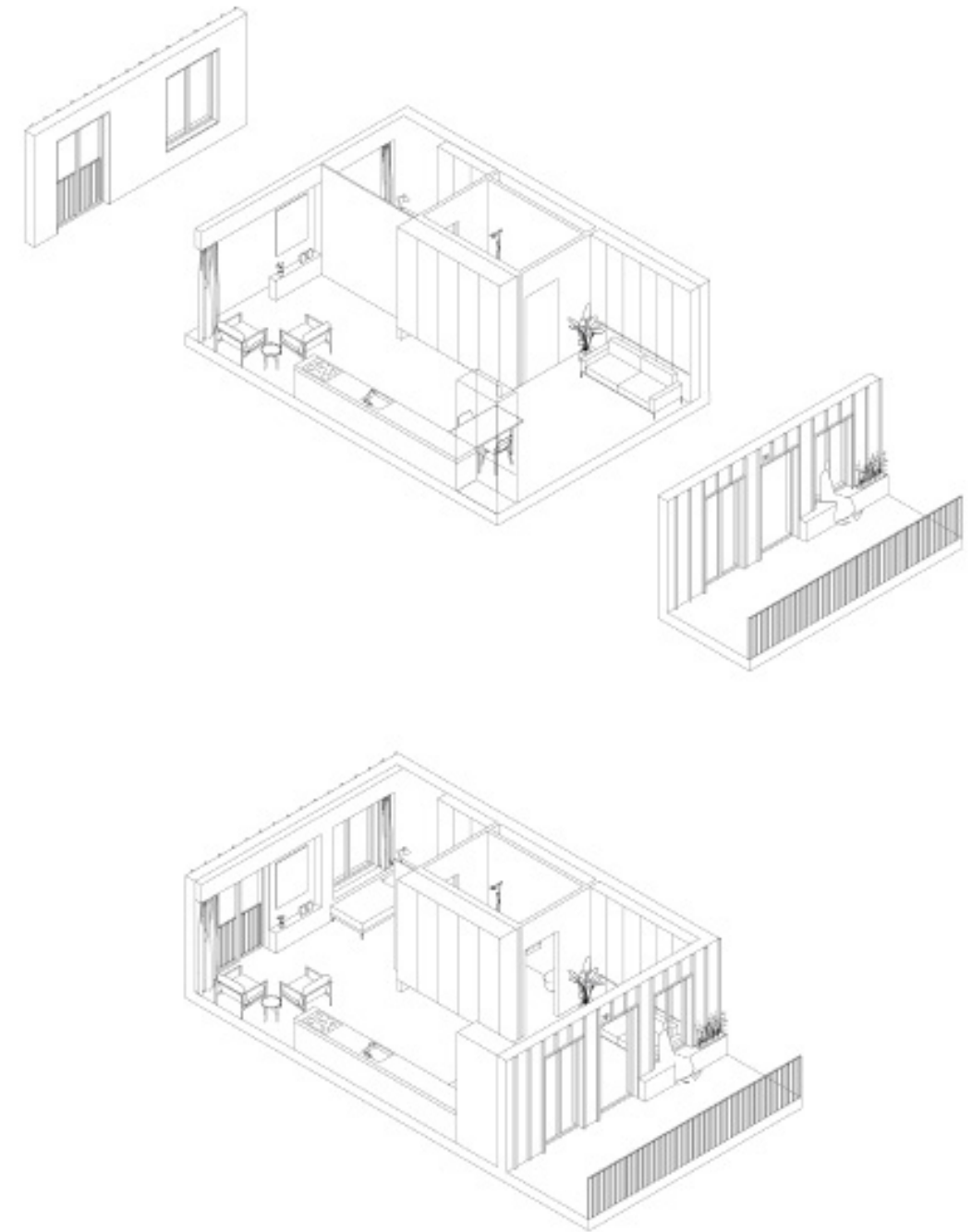
the dwellings

- +** suited for different users
- +** adaptable to own wishes
- +** suited for getting old

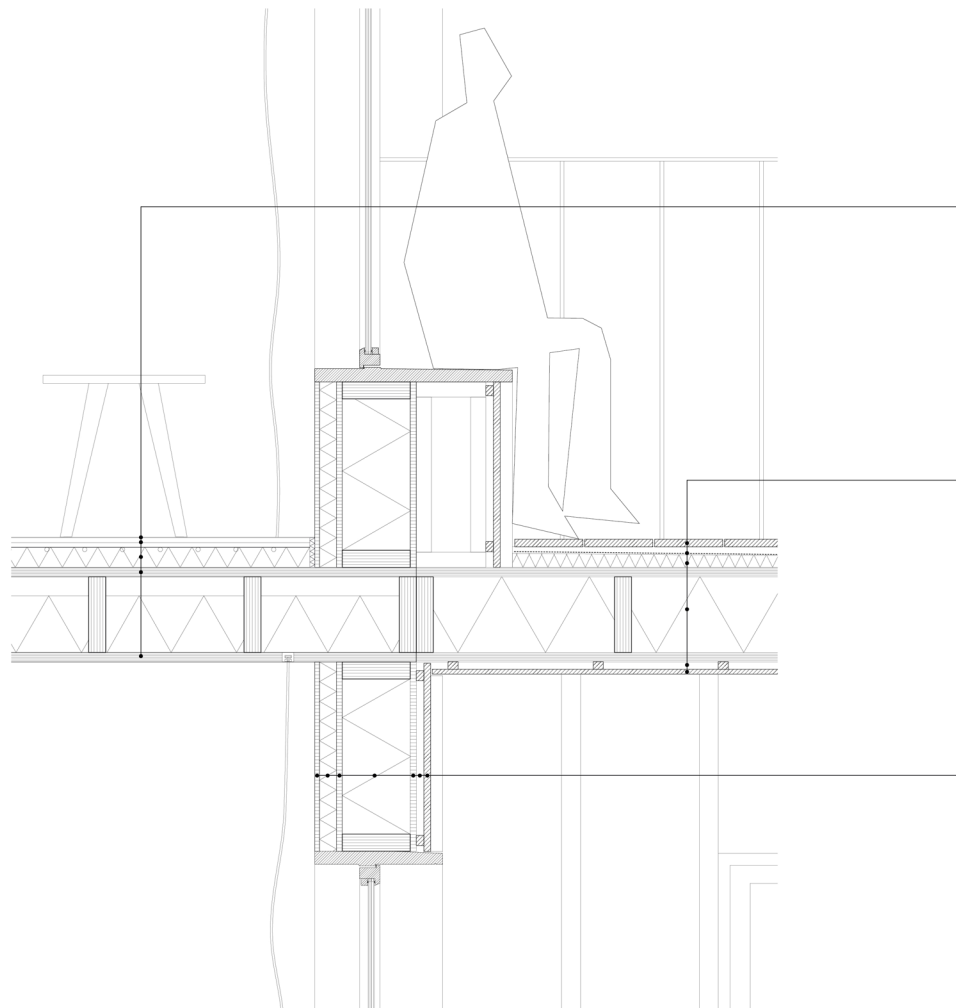
type D - the gallery



24 x 60 m²



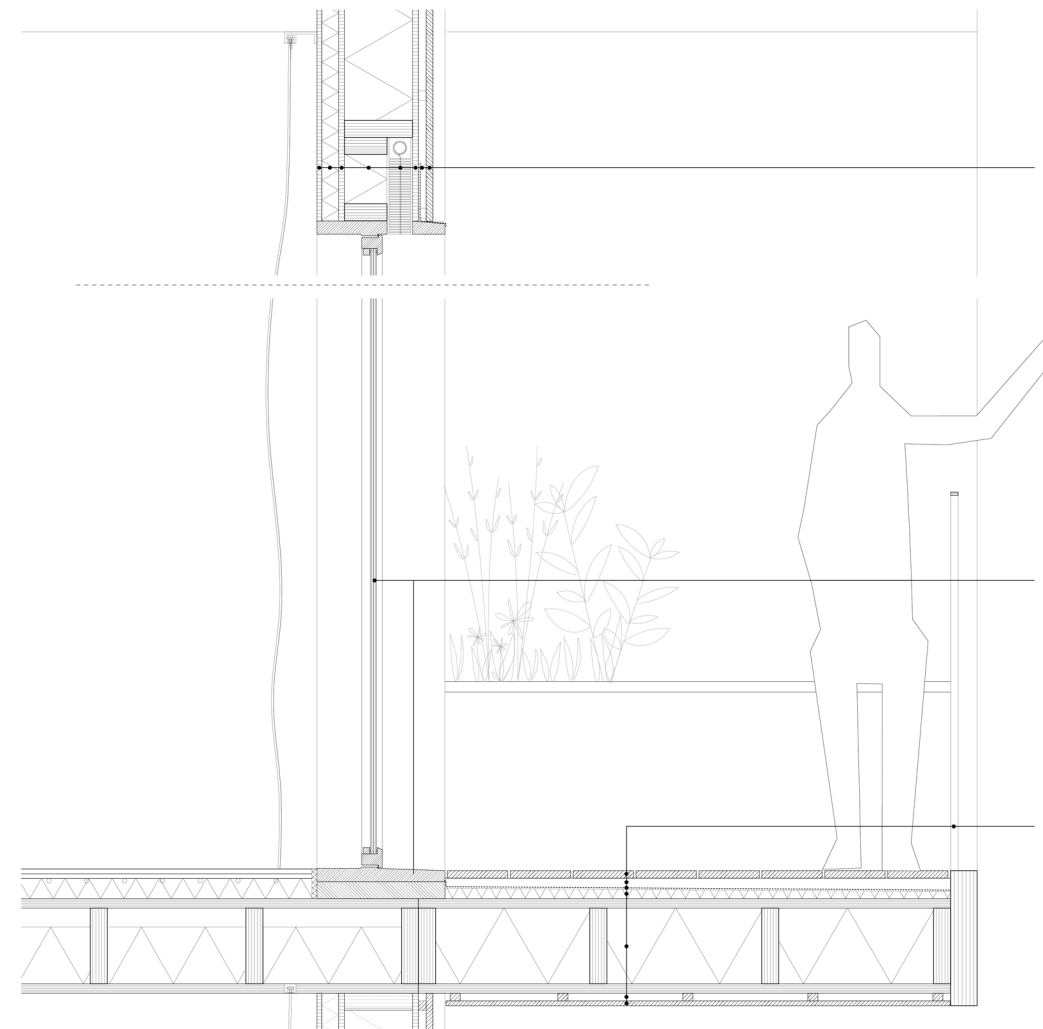
the gallery



Floor (dry system)
marmoleum floor finish (Forbo) 2 mm
Fermacell floor element 2x 12.5 mm
insulation with floor heating 50 mm
Kerto Ripa closed floor element 250 mm

Balcony
wooden planks anti-slip (Moso Bamoo X-treme) 20 mm
wooden battens
water proof foil
hard insulation on slope
Kerto Ripa closed floor element 250 mm
wooden battens 20 mm
wooden planks (Moso Bamboo N-finity) 20 mm

Timber (HSB) prefab facade
plasterboard 12.5 mm
insulation zone for installations 45 mm
OSB panel 15 mm
insulation (HempFlax) 180 mm Rc = 4,5 m2K/W
between wooden frame (45x180 mm)
water resistant fiberboard 16 mm
ventilated cavity with wooden battens 20 mm
vertical timber facade (Moso Bamboo N-finity) 20 mm
with vertical slats 30x50 mm h.o.h. 425 mm

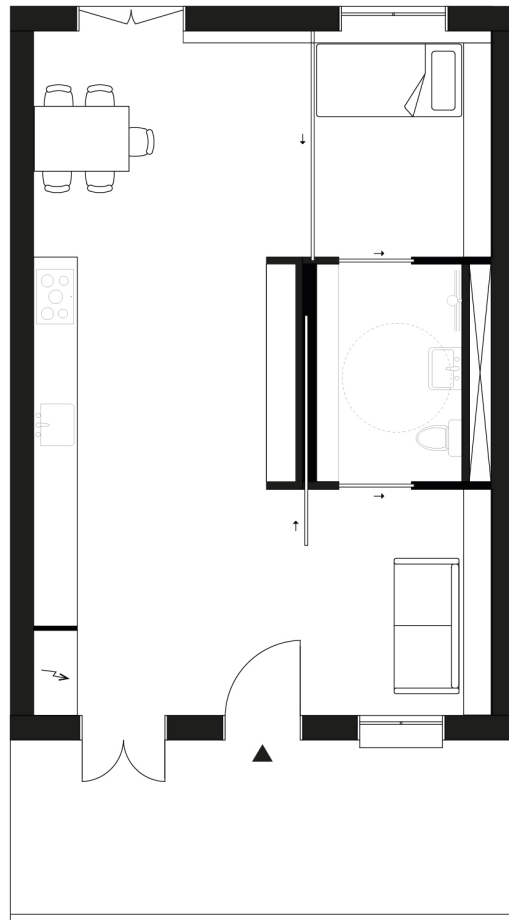


Timber (HSB) prefab facade with solar shading
plasterboard 12.5 mm
insulation zone for installations 45 mm
OSB panel 15 mm
insulation (HempFlax) 180 mm Rc = 4,5 m2K/W
between wooden frame (45x180 mm)
horizontal solar shading
water resistant fiberboard 16 mm
ventilated cavity with wooden battens 20 mm
vertical timber facade (Moso Bamboo N-finity) 20 mm
with vertical slats 30x50 mm h.o.h. 425 mm

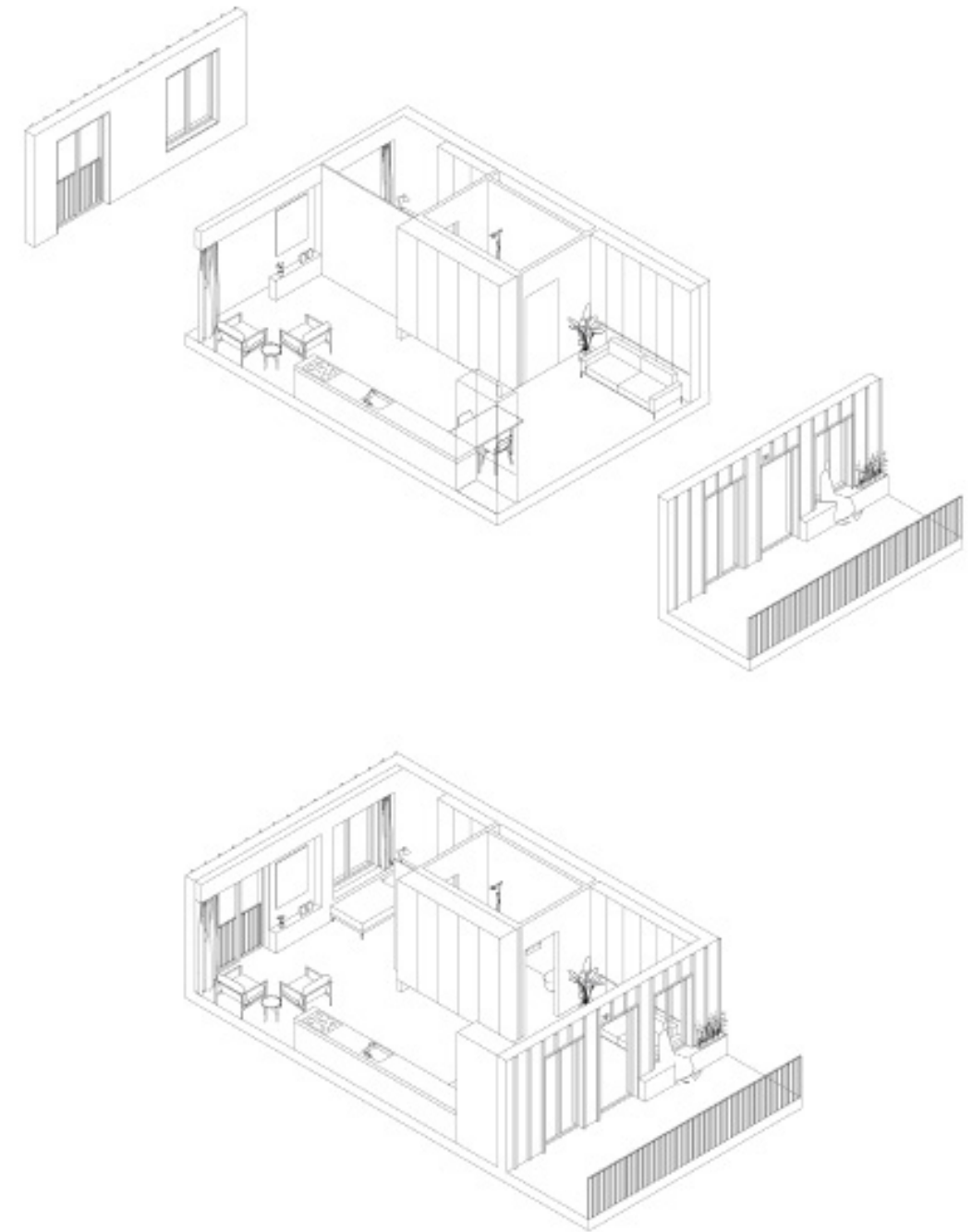
Door
triple glazing in wooden frame
easy accessible for wheelchair because of no height
difference when going outside

Balcony
steel railing
wooden planks anti-slip (Moso Bamoo X-treme) 20 mm
wooden battens
water proof foil
hard insulation on slope
Kerto Ripa closed floor element 250 mm
wooden battens 20 mm
wooden planks (Moso Bamboo N-finity) 20 mm

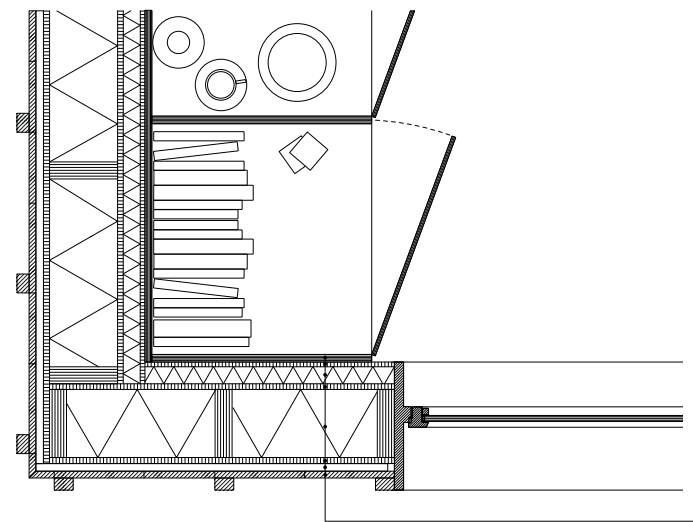
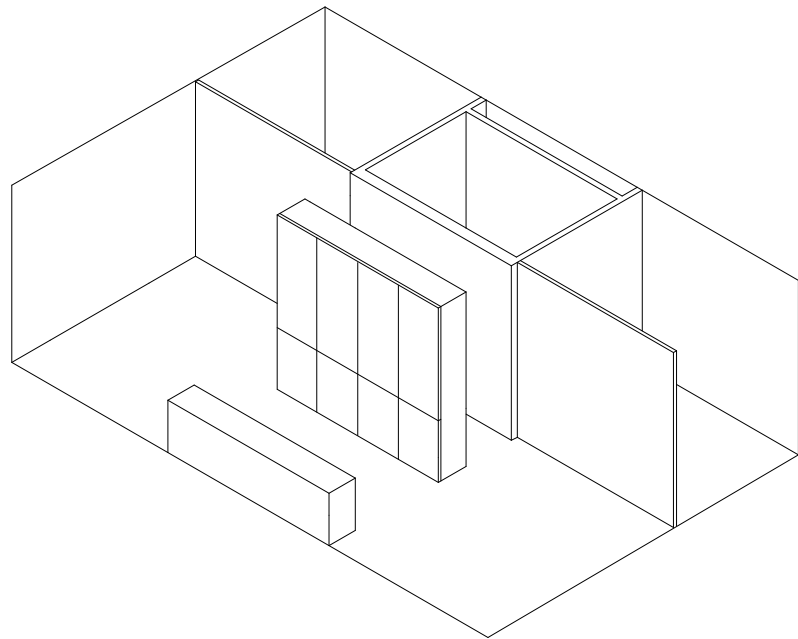
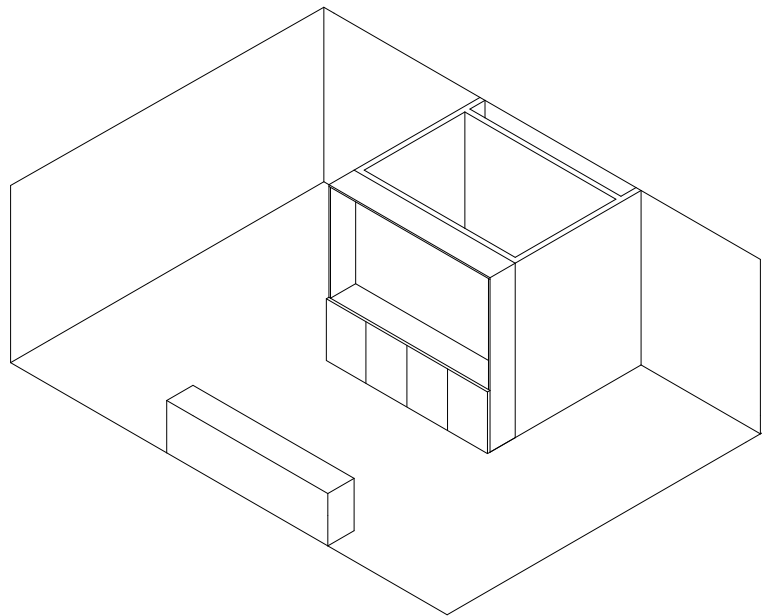
type D - the interior



24 x 60 m²

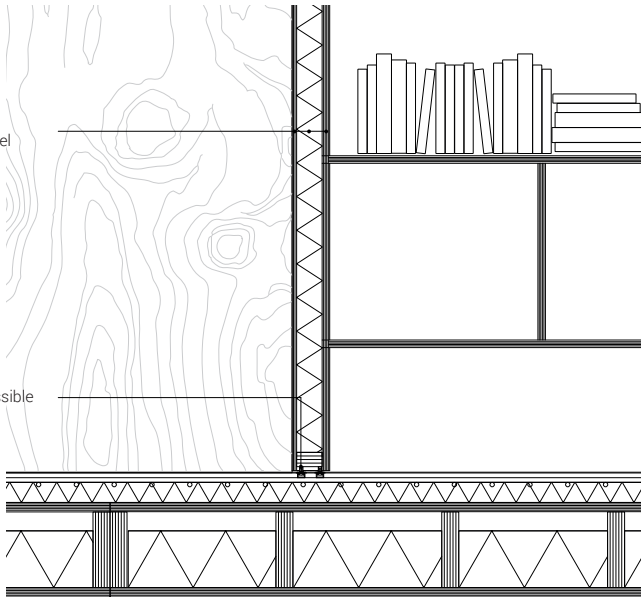


adaptibility of interior



Moving closet
plywood 12 mm
Kerto LVL T-stud panel
filled with insulation
plywood 20 mm

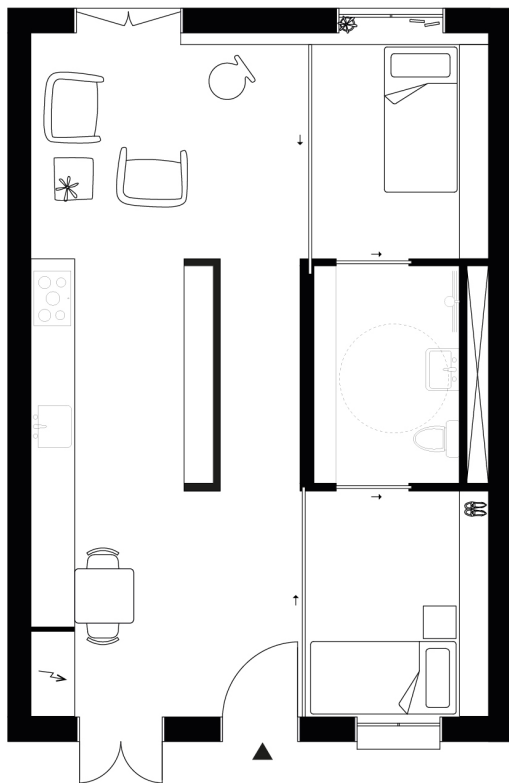
rails that make it possible
to move the closet



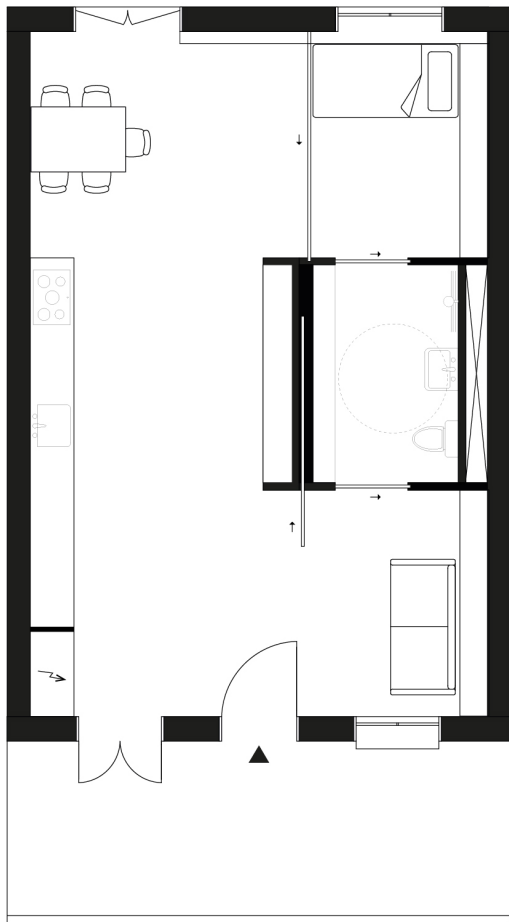
Timber (HSB) prefab facade and built in closet
plywood 20 mm
plasterboard 12.5 mm
insulation zone for installations 45 mm
OSB panel 15 mm
insulation (HempFlax) 180 mm Rc = 4,5 m2K/W
between wooden frame (45x180 mm)
water resistant fiberboard 16 mm
ventilated cavity with wooden battens 20 mm
vertical timber facade (Moso Bamboo N-finity) 20 mm
with vertical slats 30x50 mm h.o.h. 425 mm

type D - multiple options

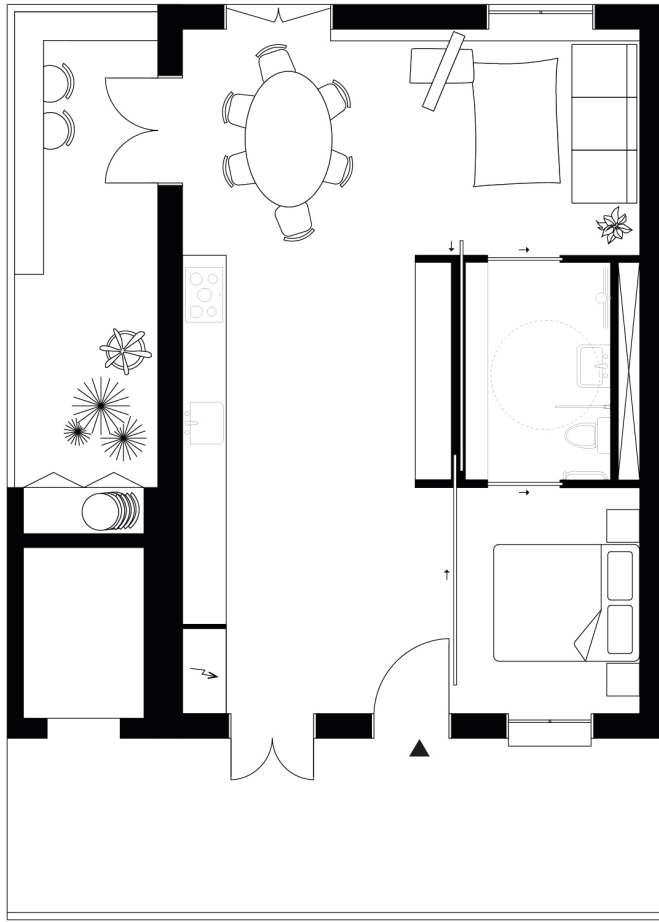
60 m2



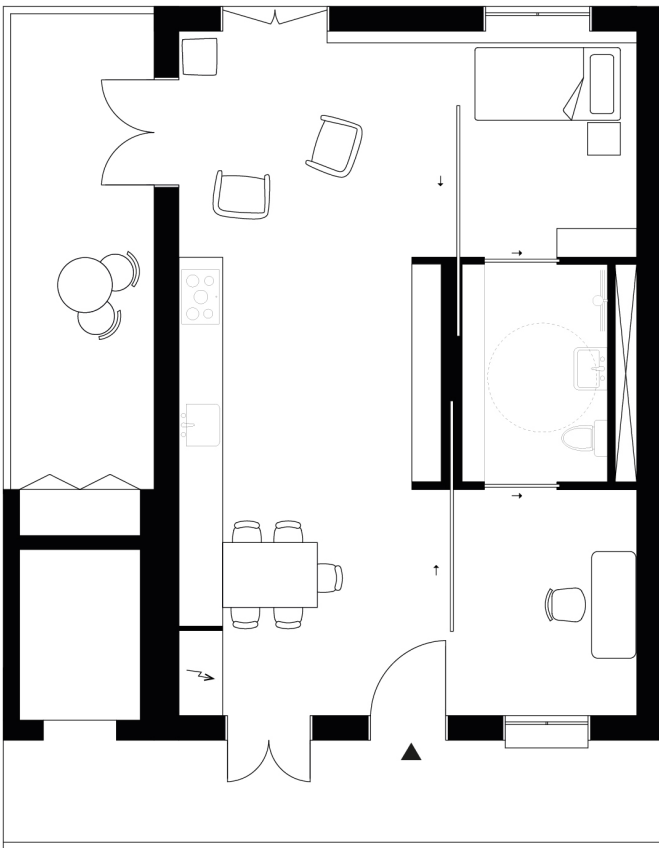
60 m2



60 m2



60 m2

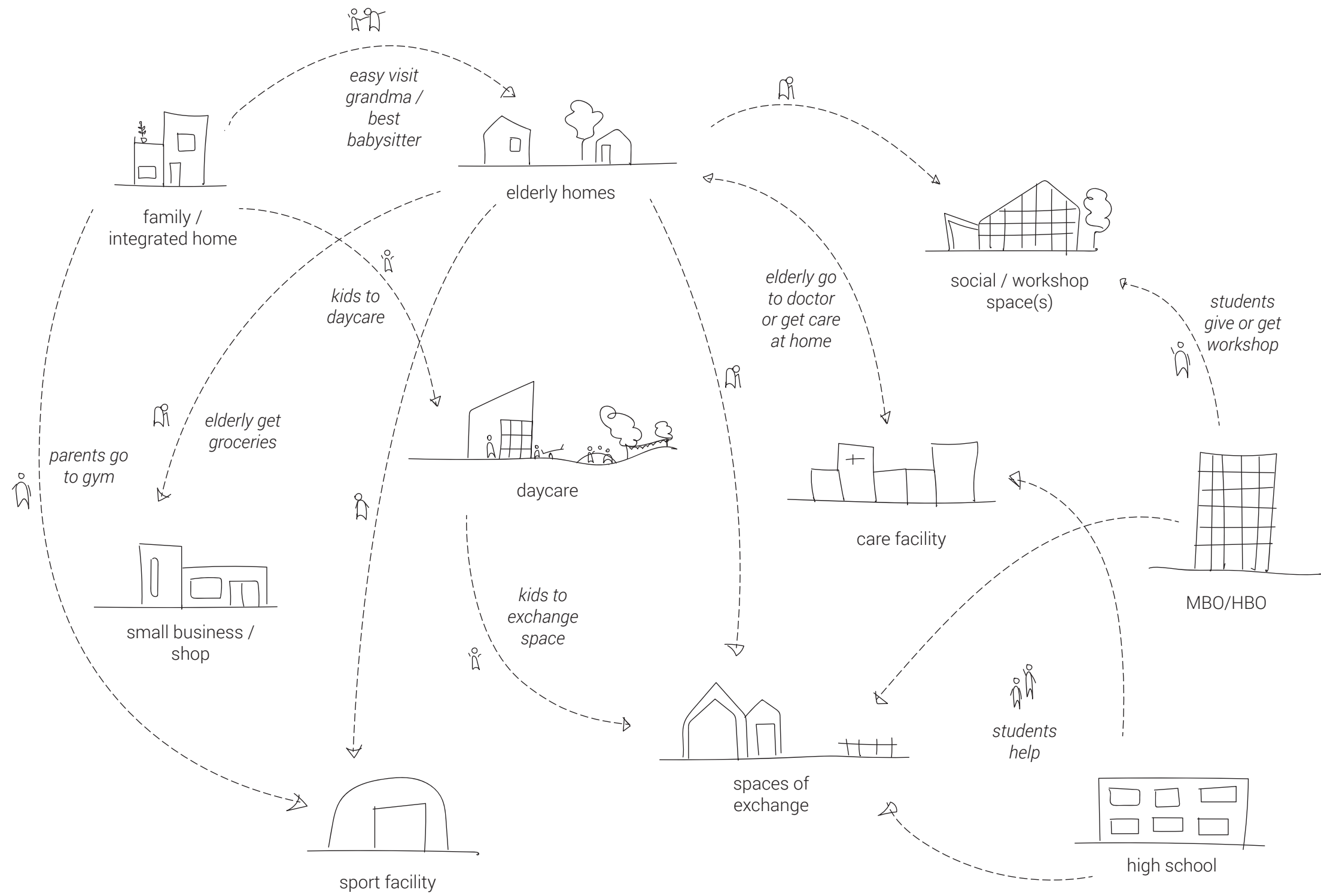


24 x 60 m2



the home





ANNEKE



RIET



JAN



ISAAC



LUCY



HENK



ANS



AD



LIEN



FRITS



LOURENS



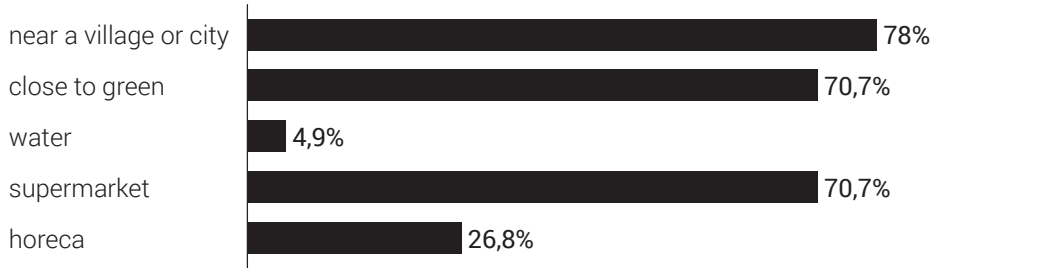


moments of joy

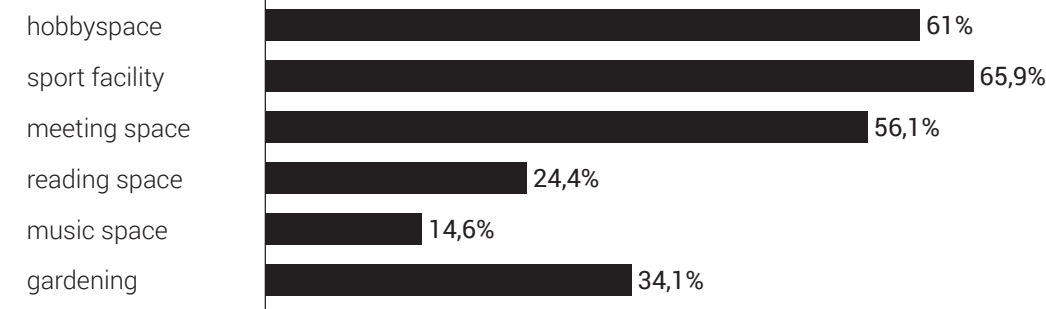


thank you

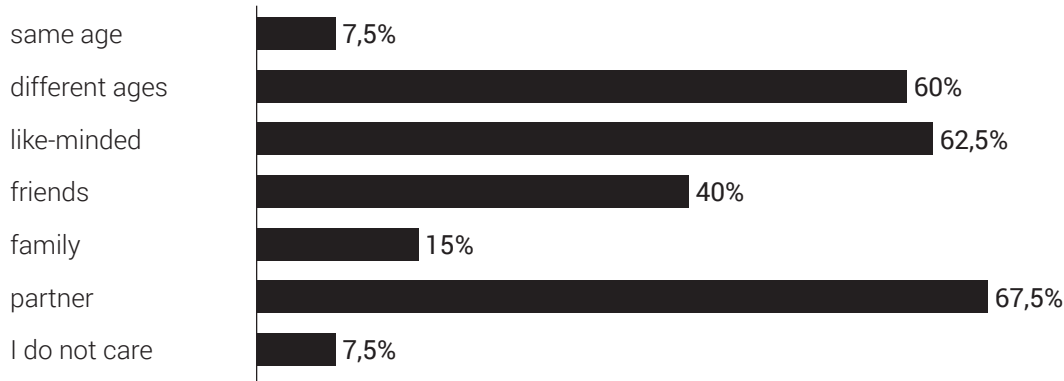
What is important in the near surrounding?



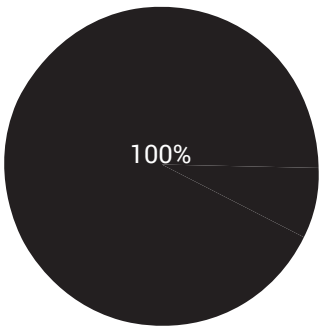
What would you like to have as an extra function?



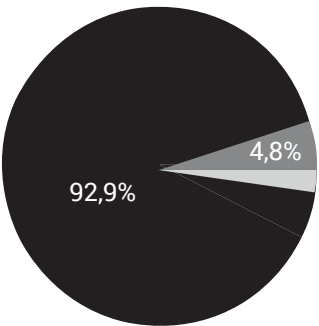
Who would you want to live with?



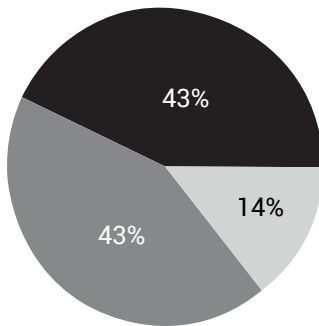
Bedroom



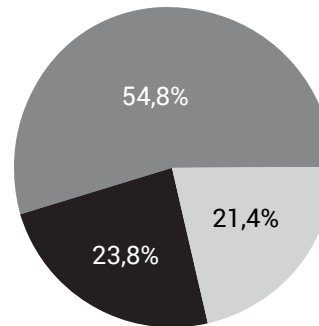
Bathroom



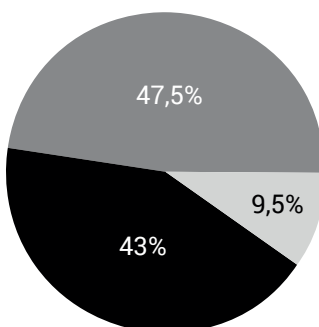
Kitchen



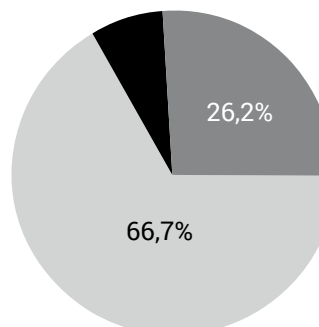
Dining room



Living room



Garden



climate



rainwater collection



collective spaces

