# Healthy Ageing through the Living Environment



Designing for Care in an Inclusive Environment Eline Koes

#### **Content**



Introduction

Problem statement

Research

Location

• Experiences fieldwork

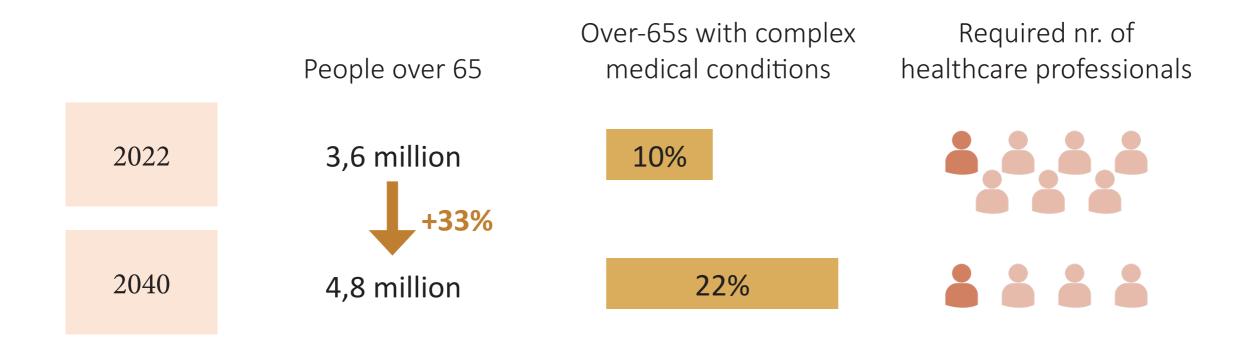
DESIGN

RESEARCH

Design

Proposal Neighbourhood

#### **Ageing Society**



#### Research question

How can Dutch living environments be adapted or designed to promote healthy ageing and assist the elderly in maintaining their vitality?

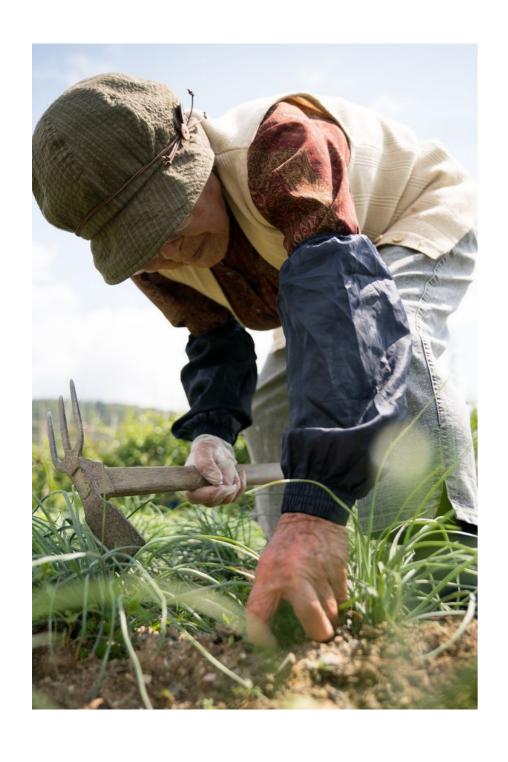
#### Goal

Creating Health Promoting
Living Environments where
People can age healthily

#### Life & Healthspan

25% genetic factors 75% non-genetic factors social, cultural, and lifestyle conditions

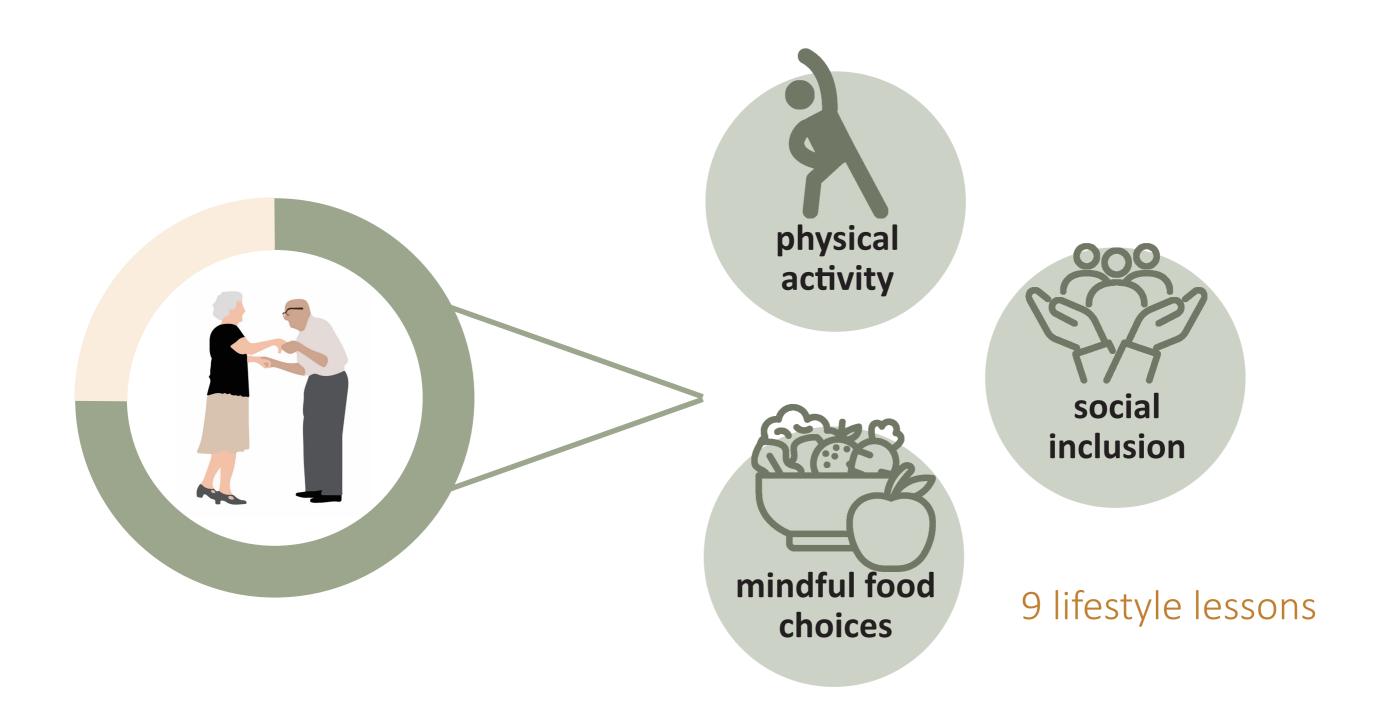
## Blue Zones | healthy ageing



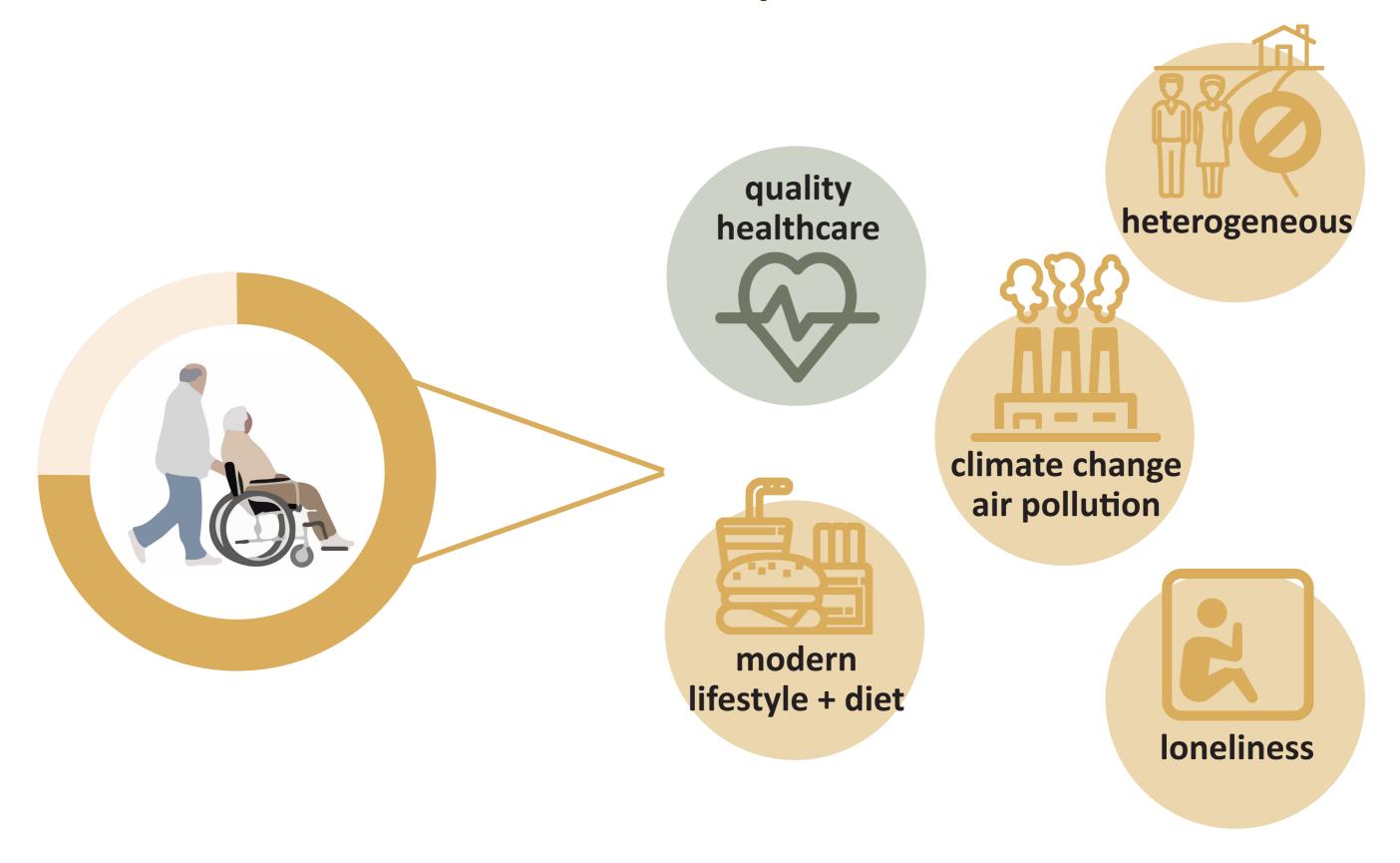




### Blue Zones | characteristics



#### Western Environments | characteristics



#### **Conclusion** | creating healthy living zones

**Physical Activity** 



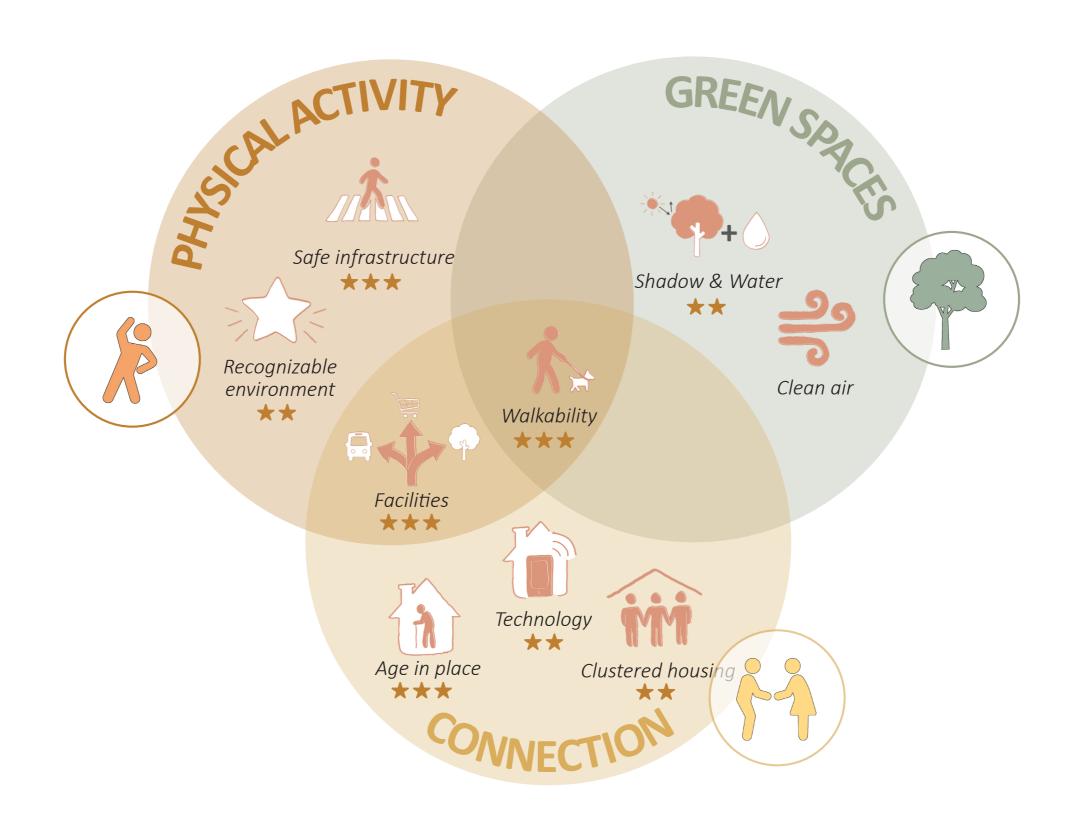
Social Connection



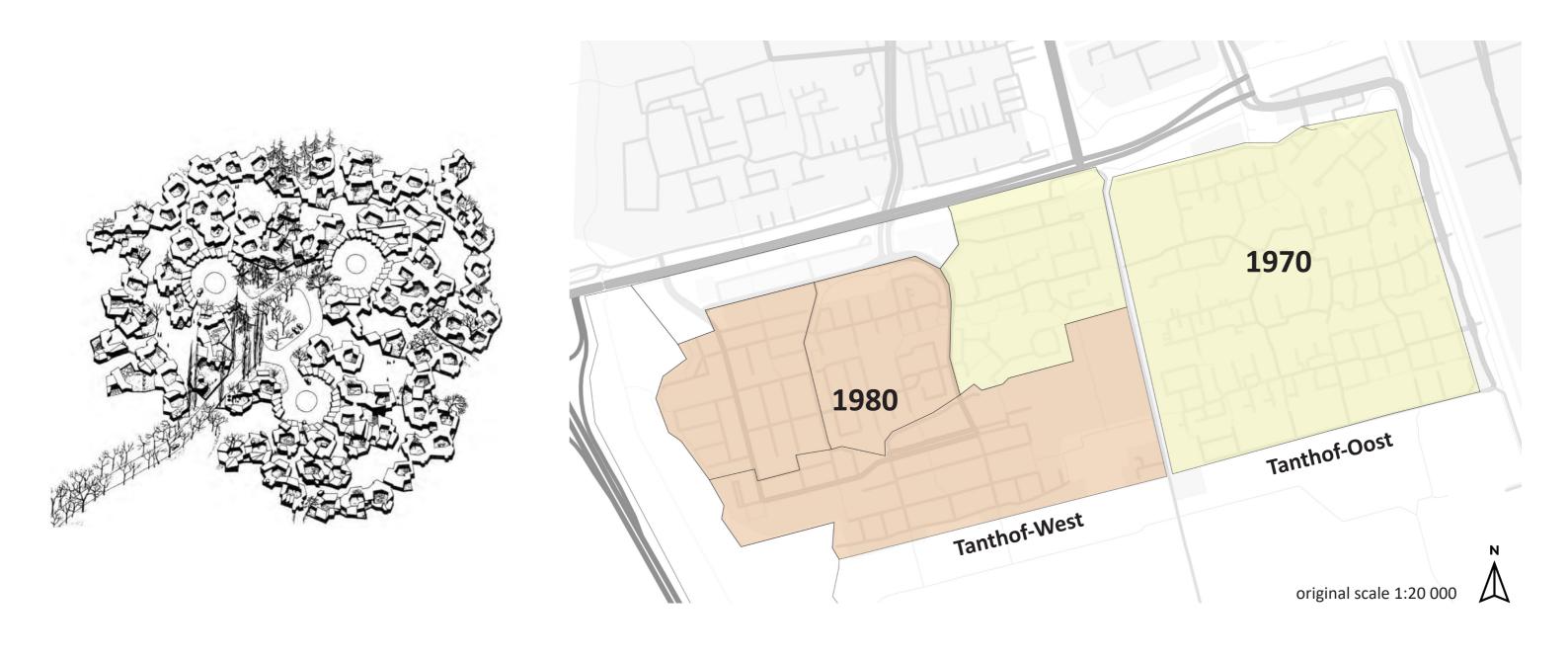
Green Blue Spaces



#### **Conclusion** | creating healthy living zones



## Analysis | Tanthof



## Analysis | Tanthof

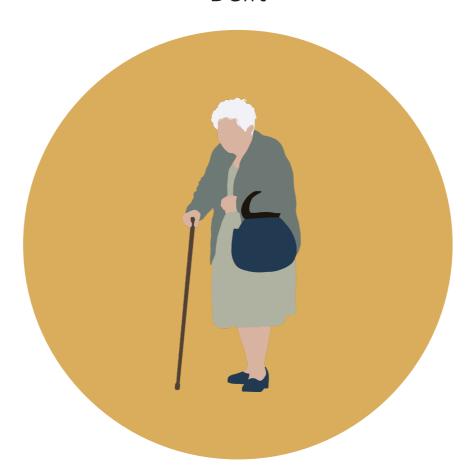




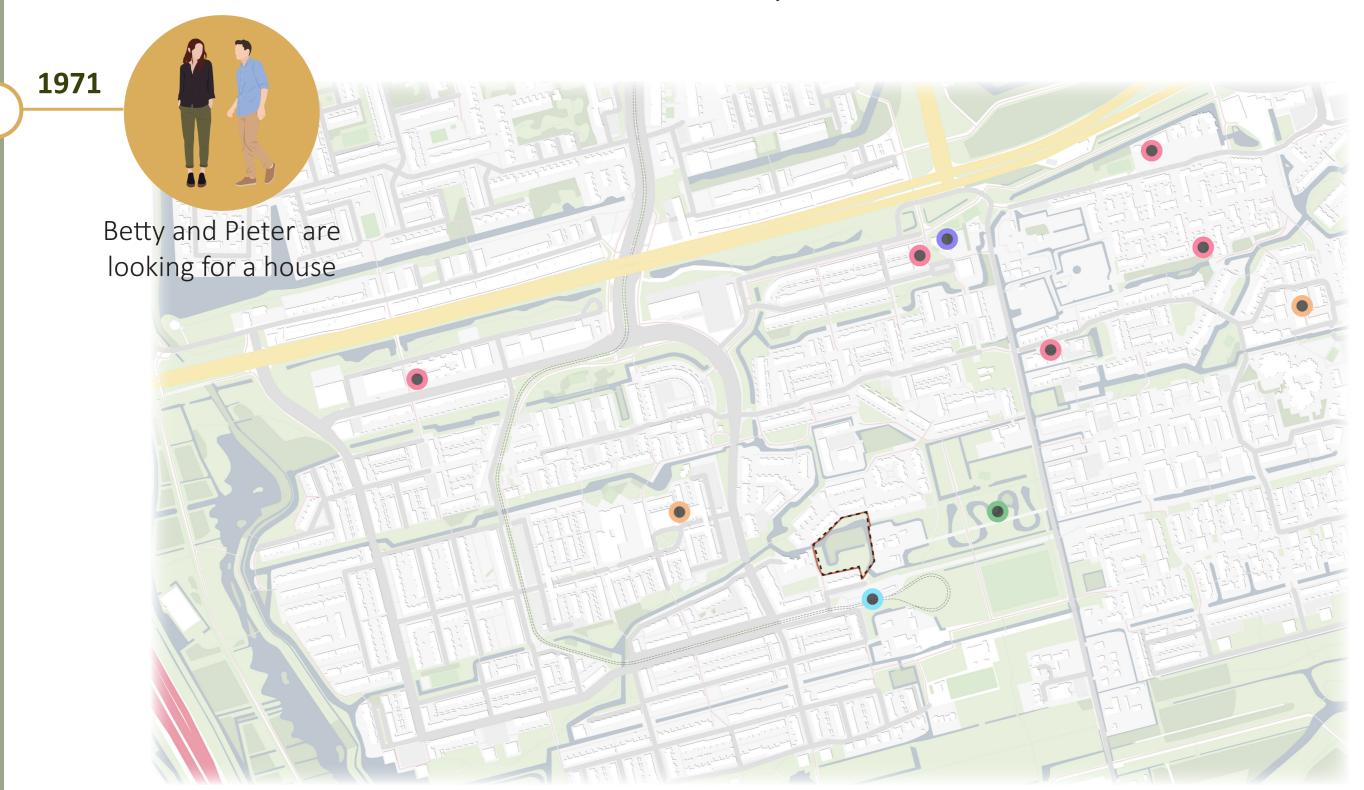


#### **Meet Betty**

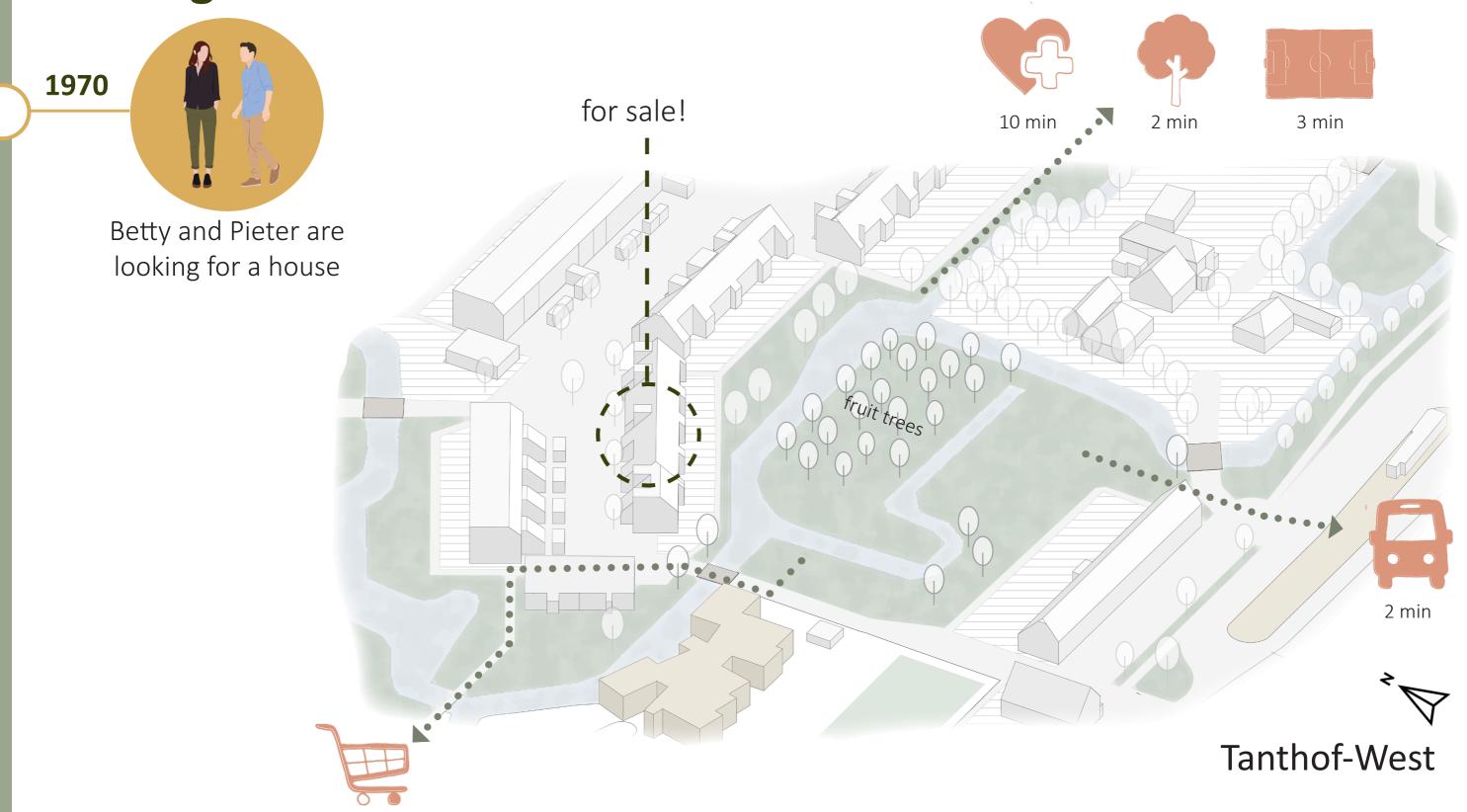
an elderly woman living in the Cauliflower Neighbourhood Tanthof,
Delft



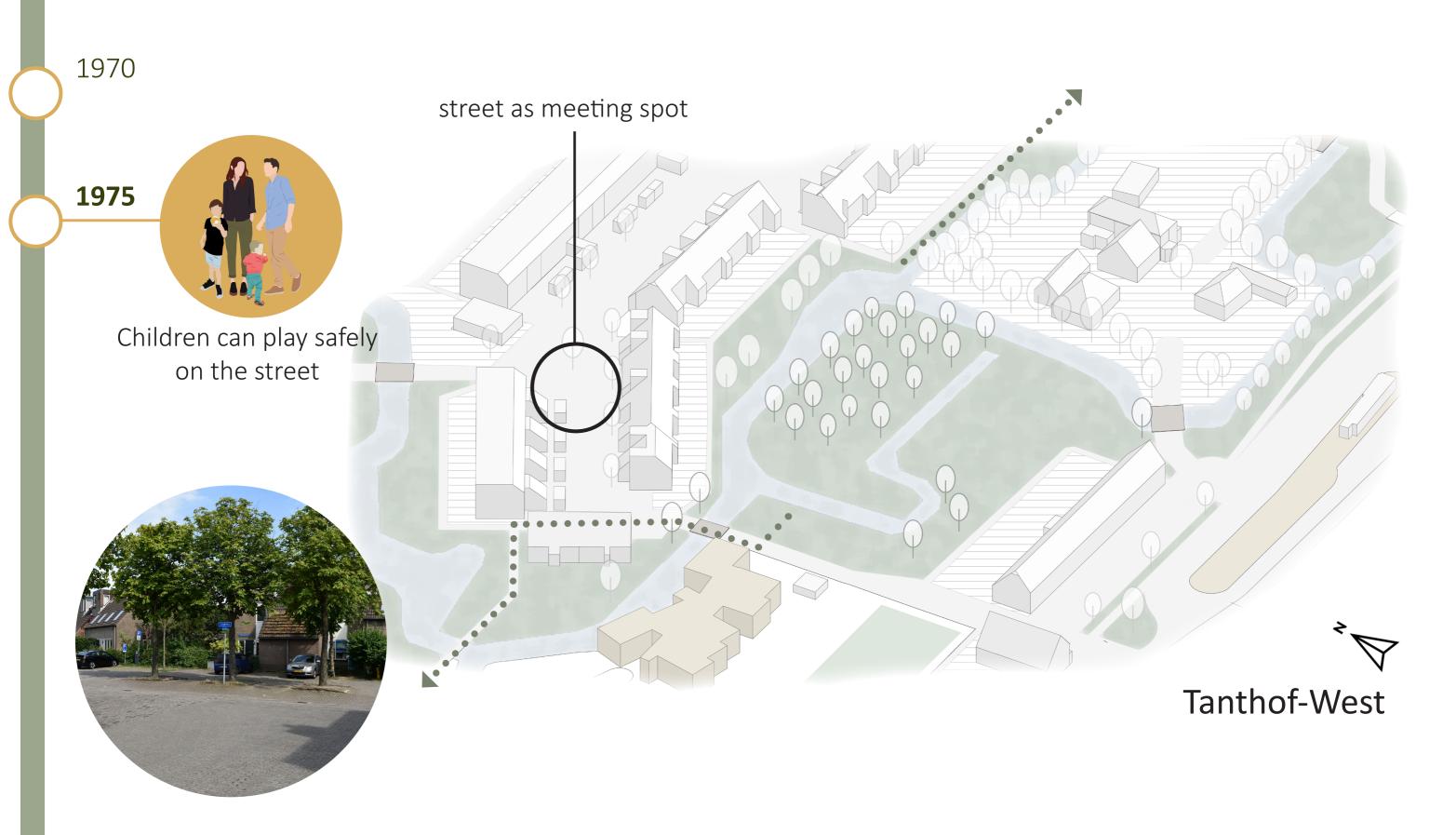
## Tanthof | 1971



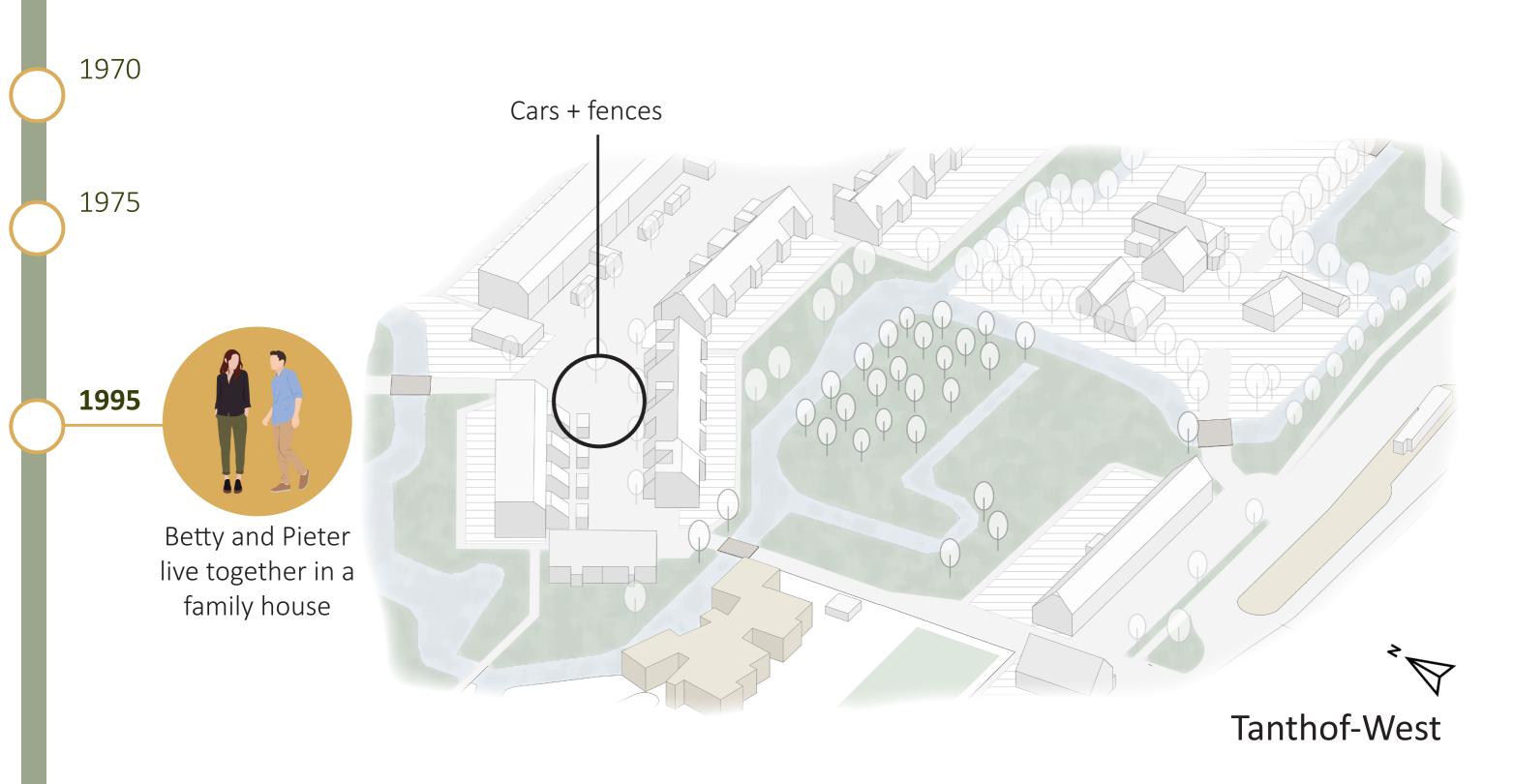
### **Looking for a House**



### **Starting a Family**

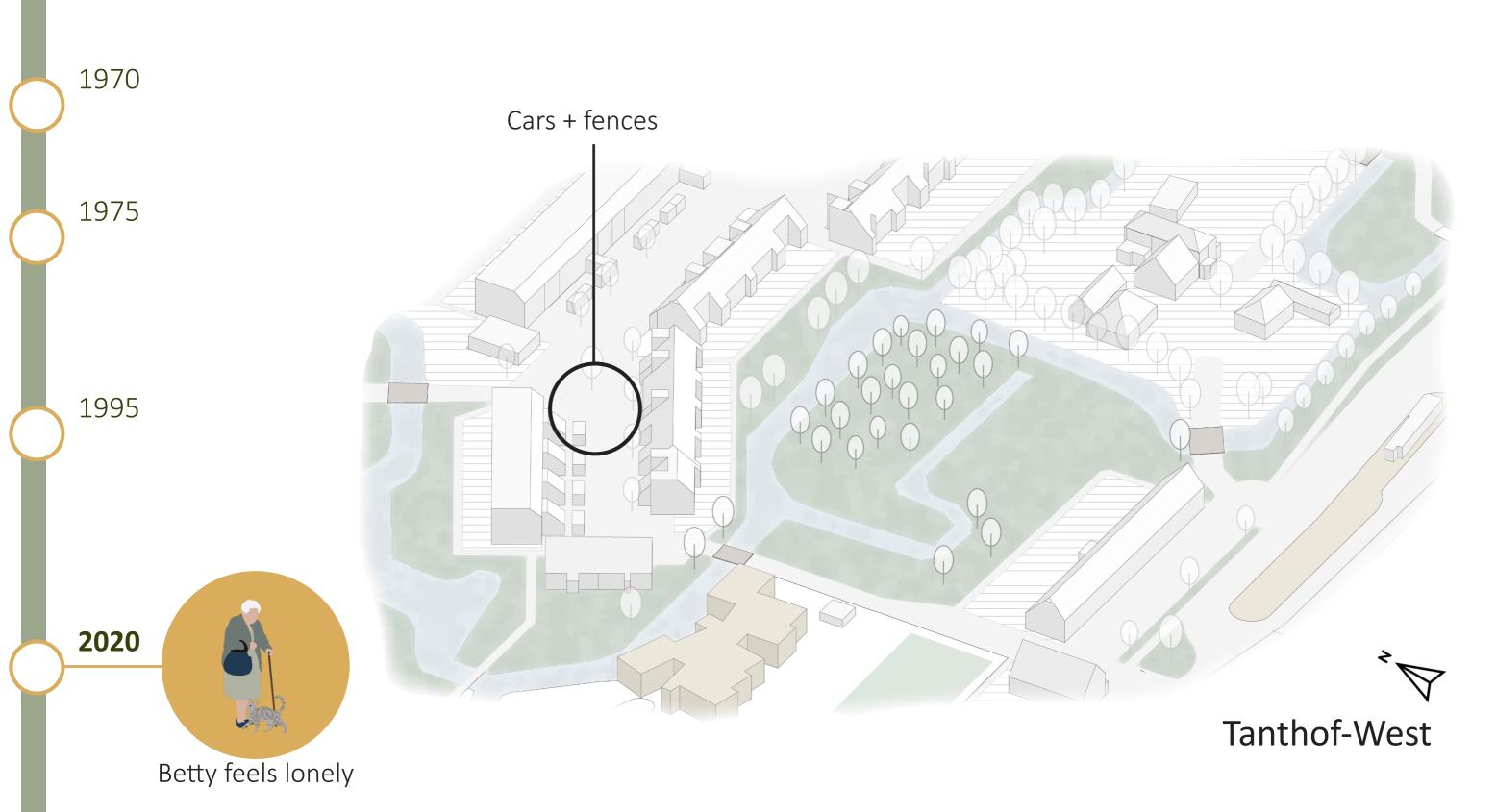


### **Children leaving Home**





## **Betty lives Alone**



#### **Conclusion** | mismatch in needs current residents



#### **Conclusion:** Loneliness + Unsustainable Healtcare System



Betty's loneliness is causing rapid aging and frequent hospital visits

How can we revive the cauliflower neighbourhoods so that loneliness is replaced with a sense of community and belonging?





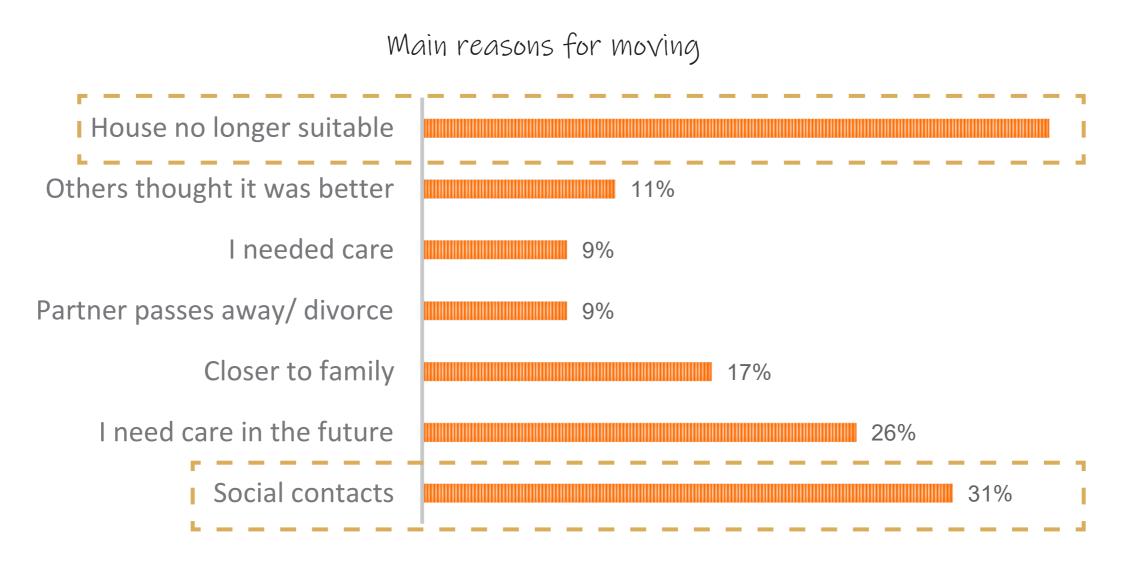






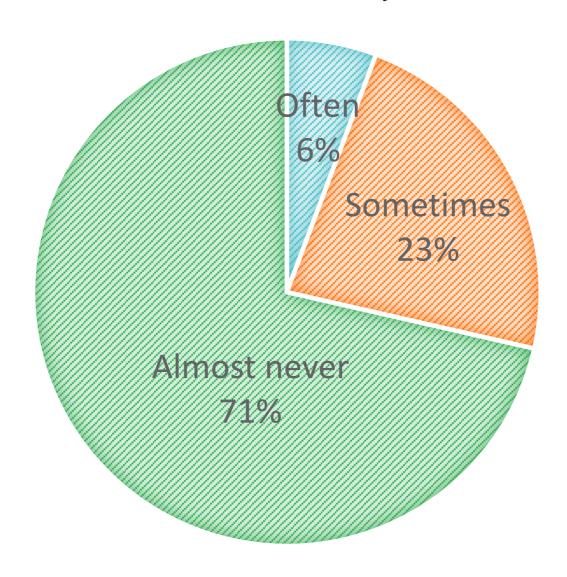


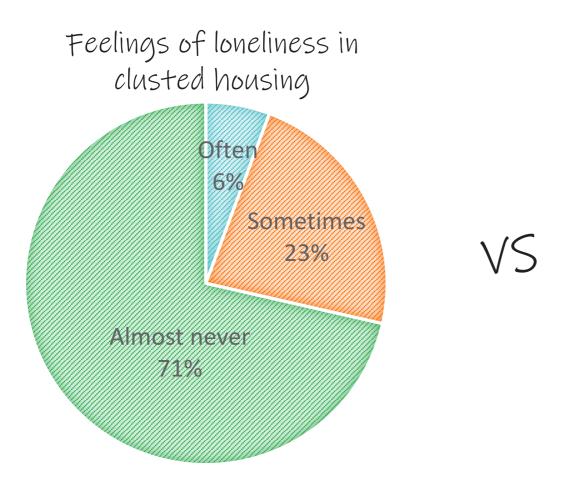


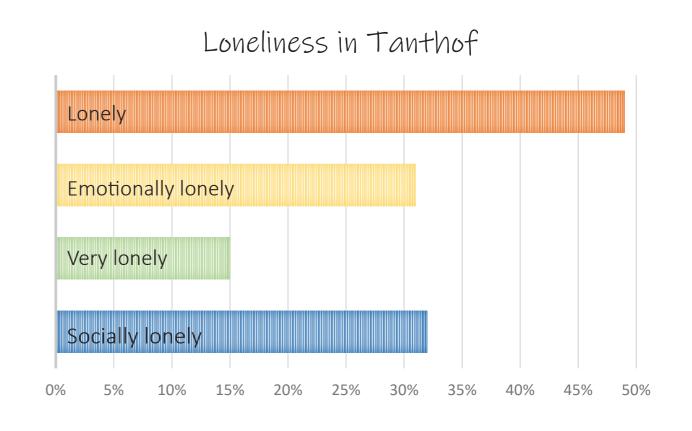




Feelings of loneliness in clusted housing





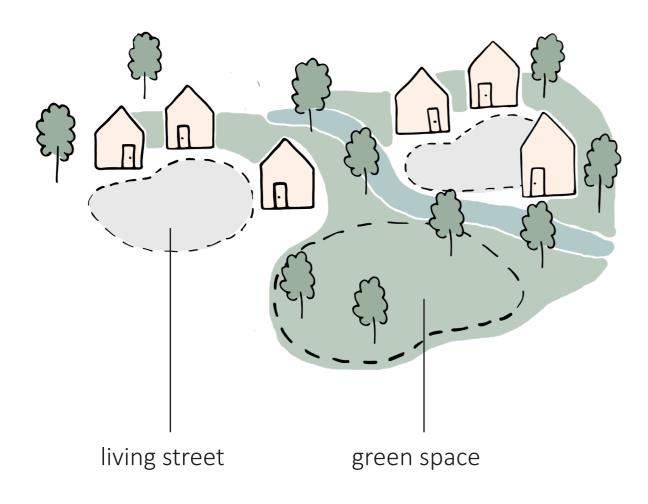


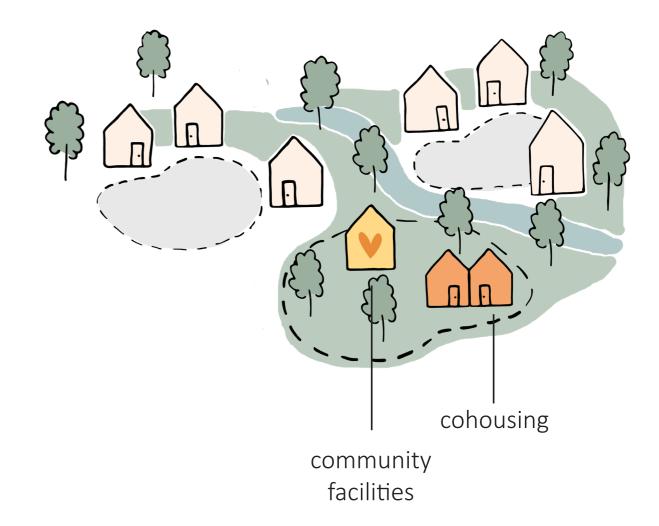


#### **Vision** | reviving the cauliflower neighbourhoods

green spaces with potential

adding cohousing + community facilities





#### **Vision** | reviving the cauliflower neighbourhoods

activating + connecting green space

adding facilities to the living streets



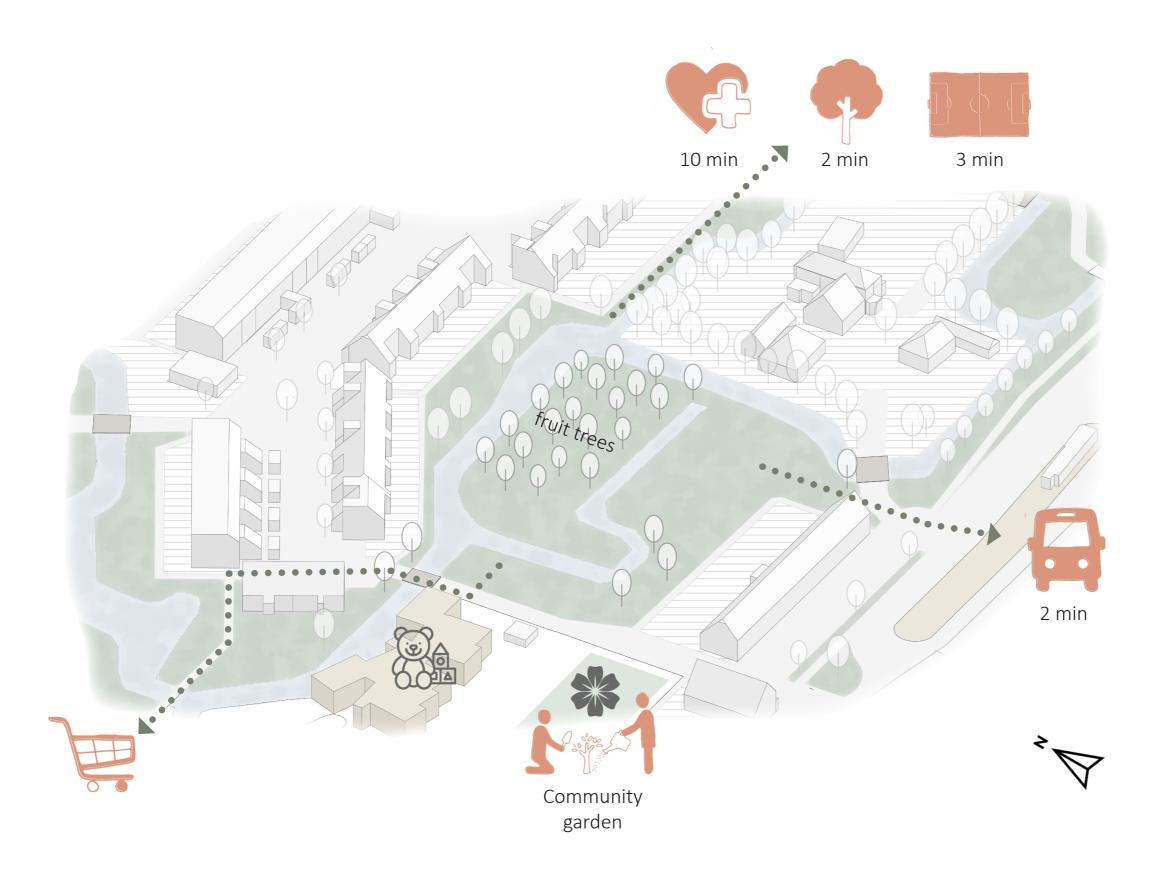


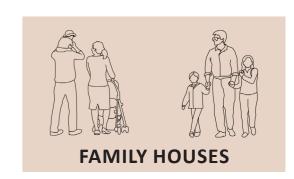
## Site | facilities



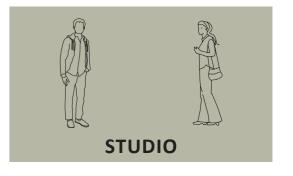


## Site | facilities



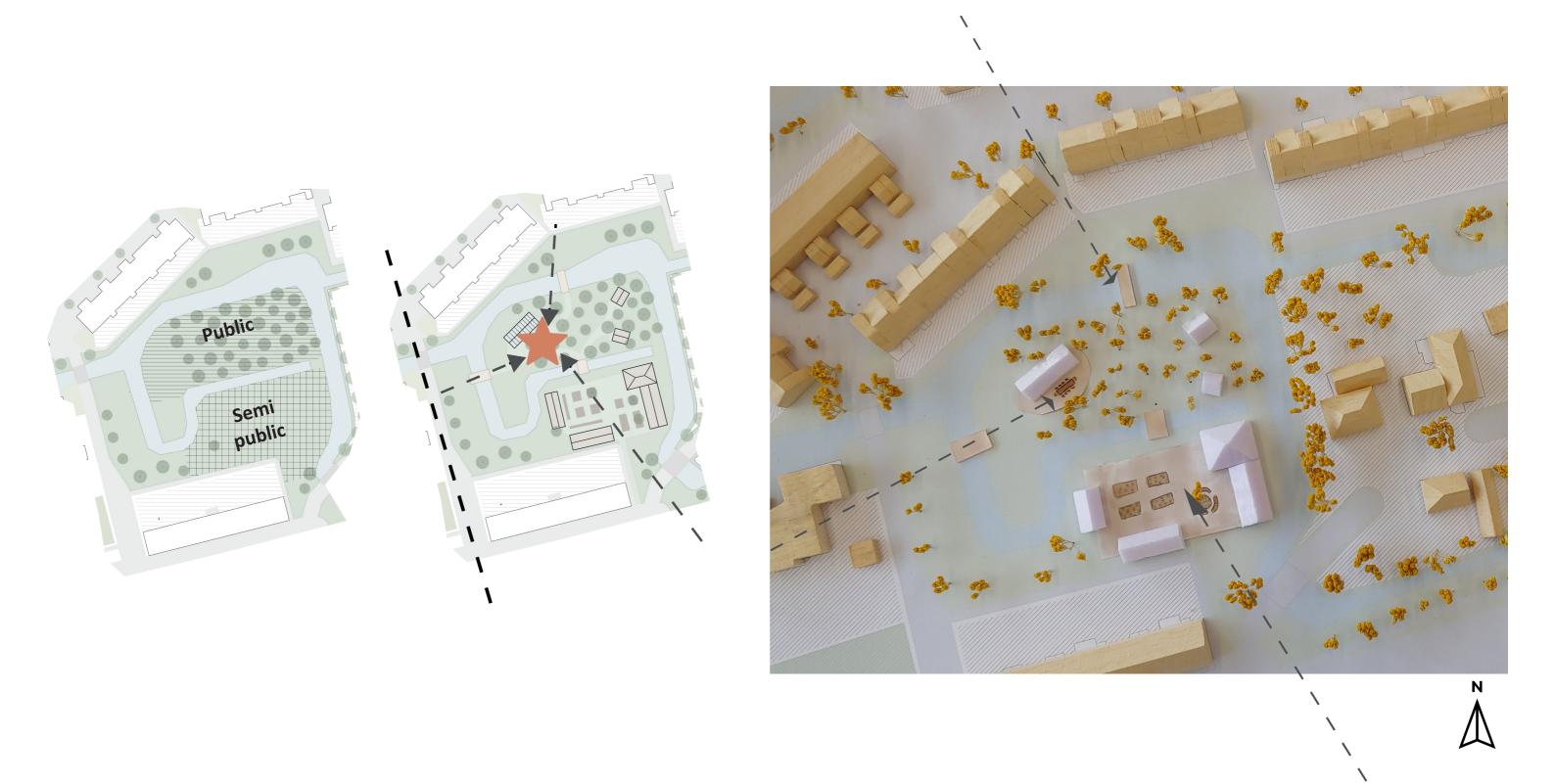




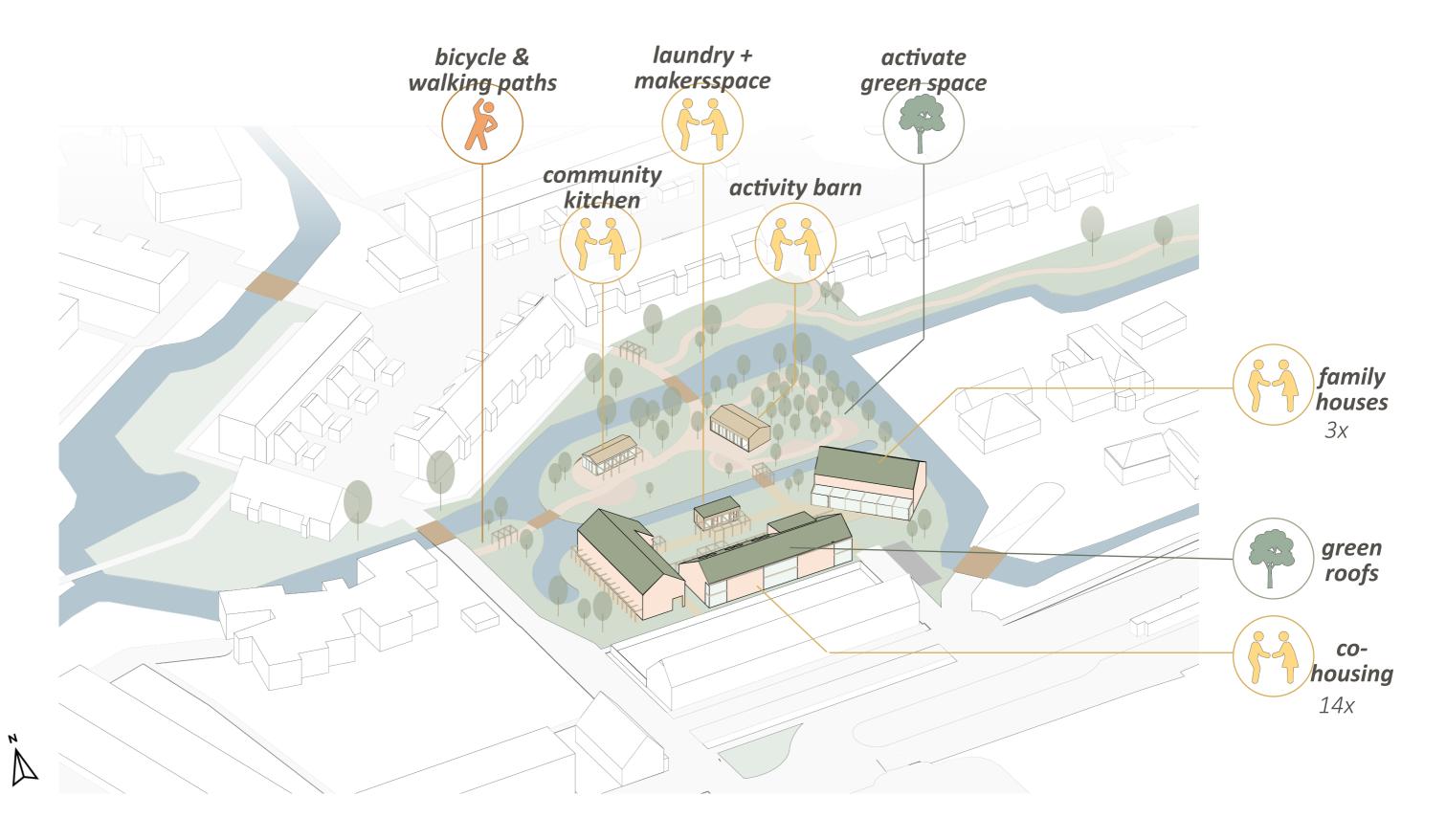




## **Design** | mass studies



## **CoLi Flow** | implementing the research



## CoLi Flow | community living



# CoLi Flow | community living

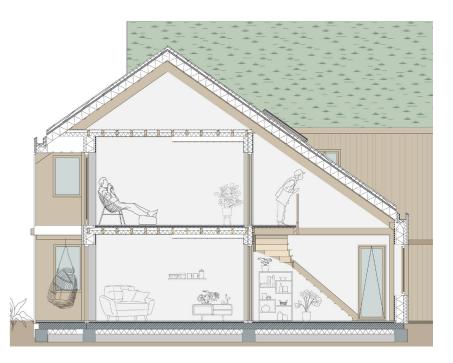


## CoLi Flow | community living



## CoLi Flow | co-housing







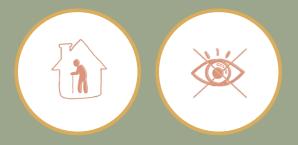


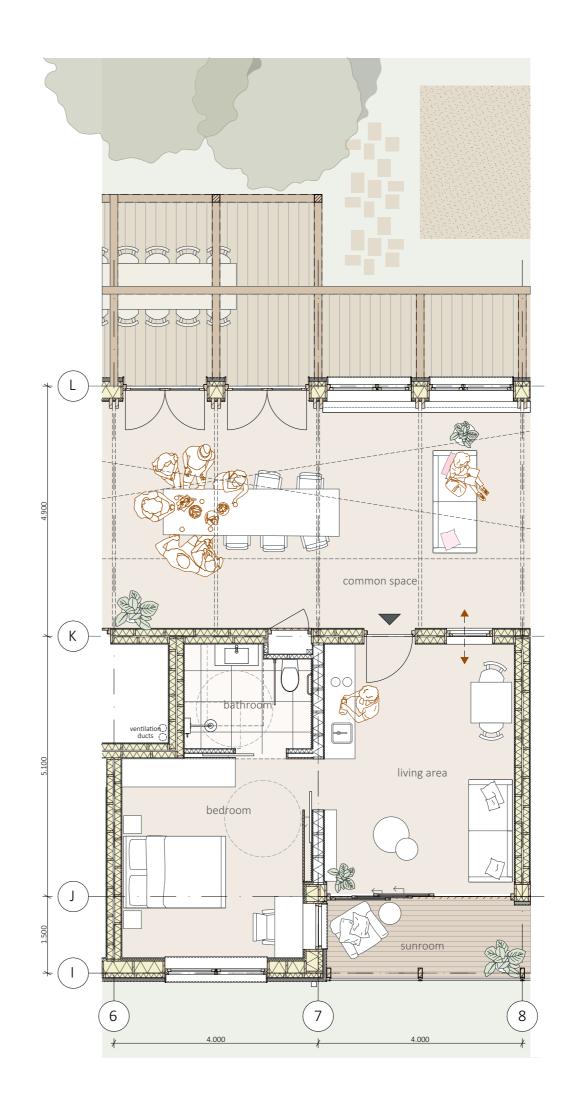


# CoLi Flow CoHousing



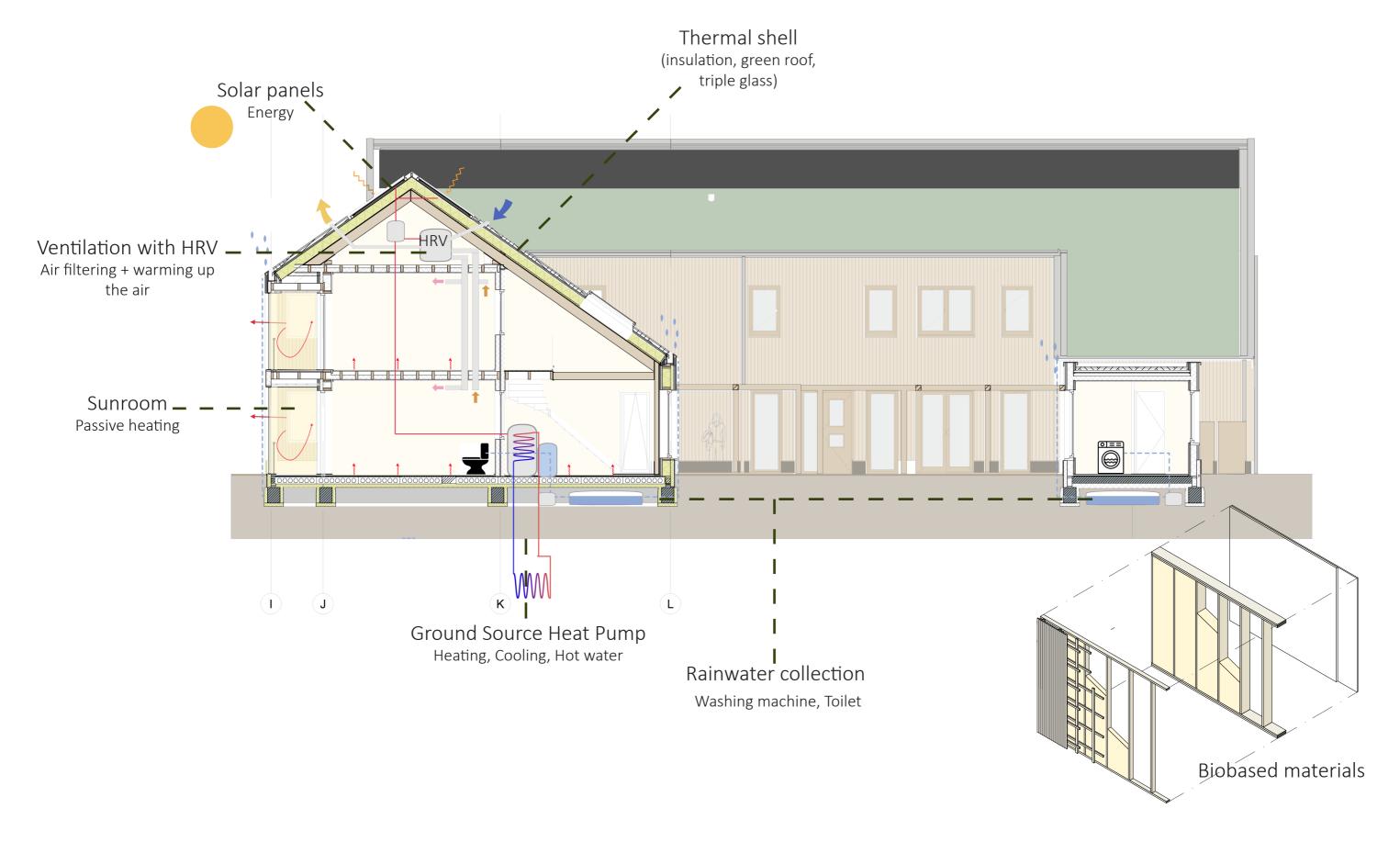
Balancing community living with private spaces







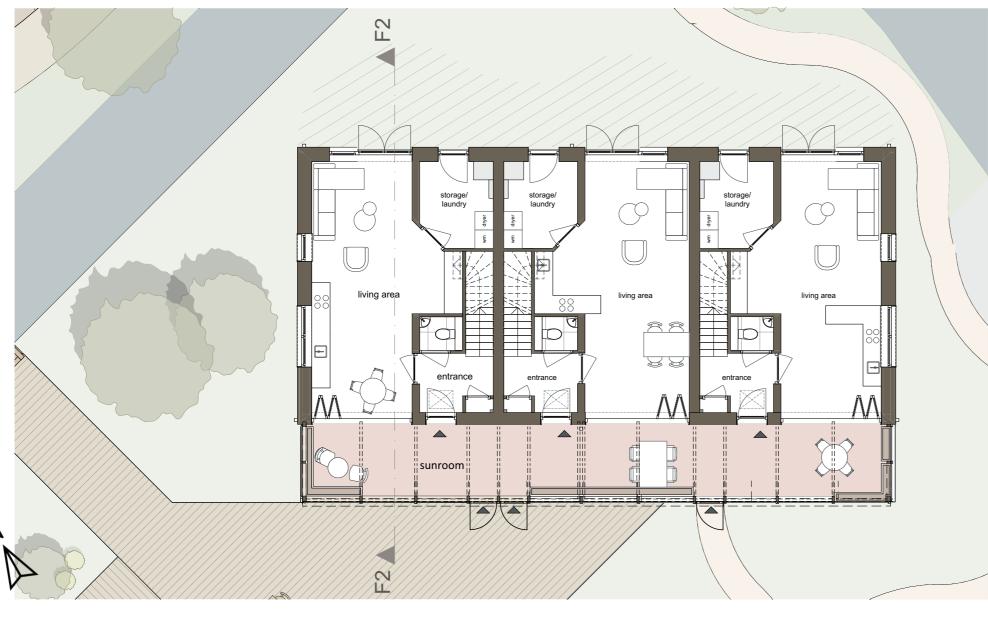
### CoLi Flow | climate diagram

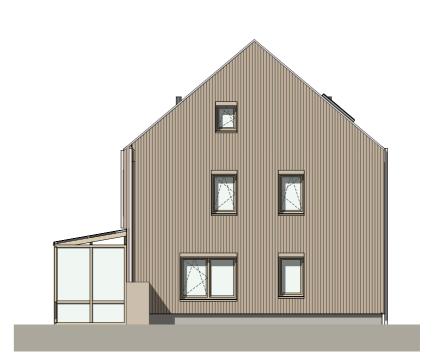


#### **CoLi Flow**

Family Houses



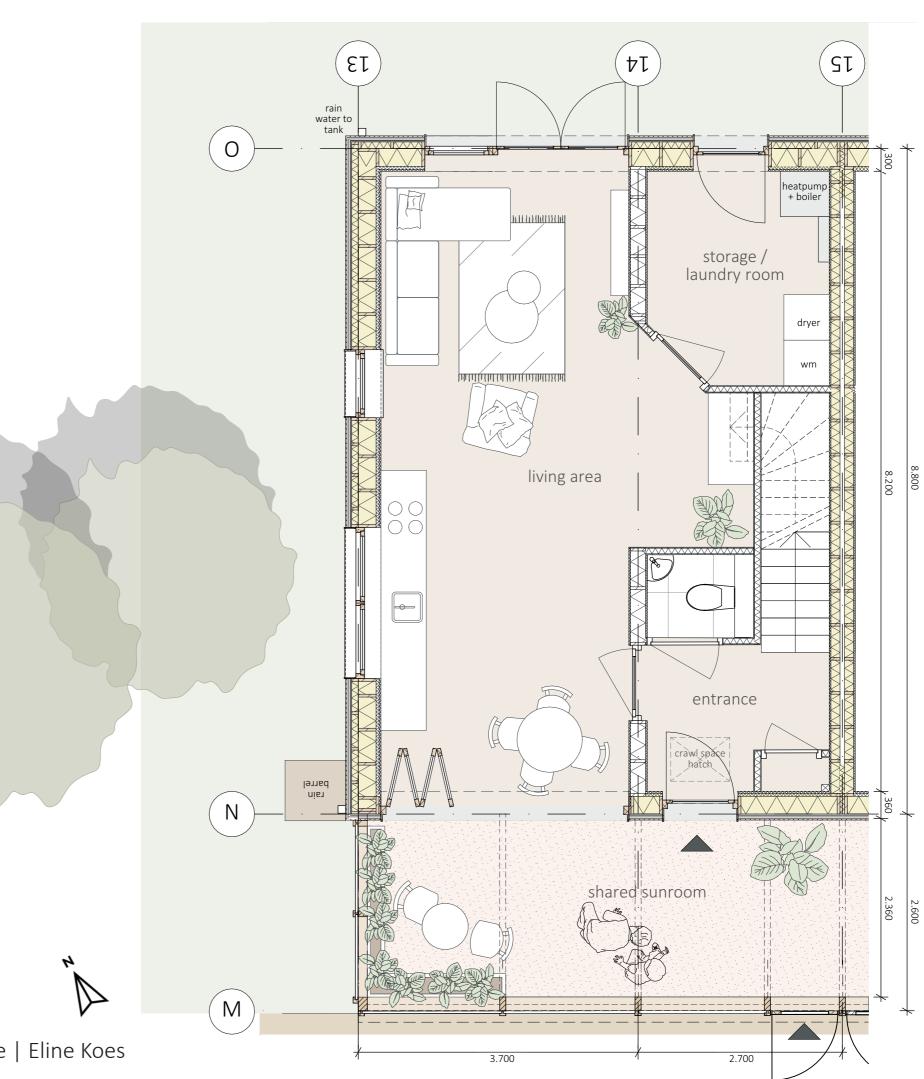




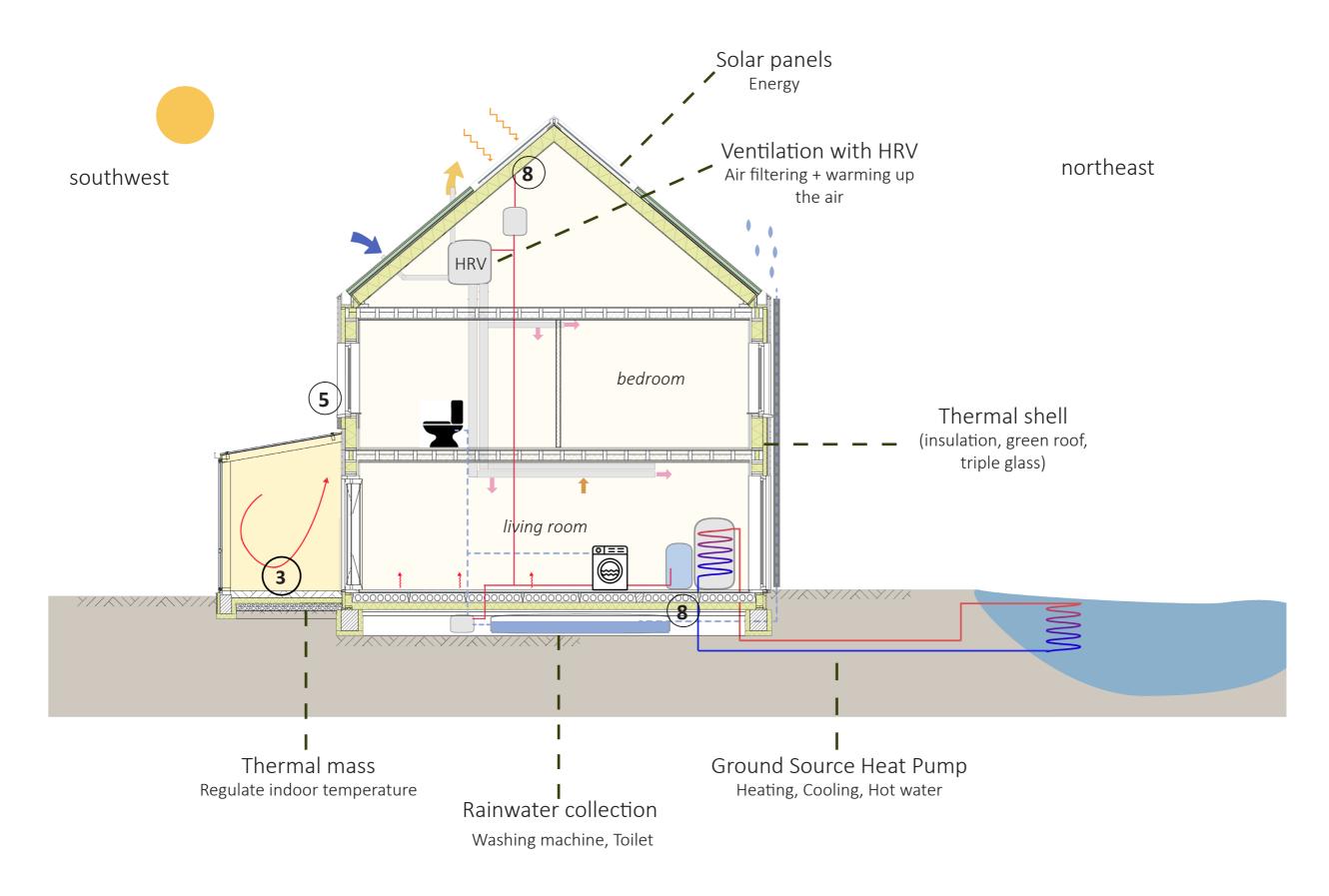
# CoLi Flow Family House



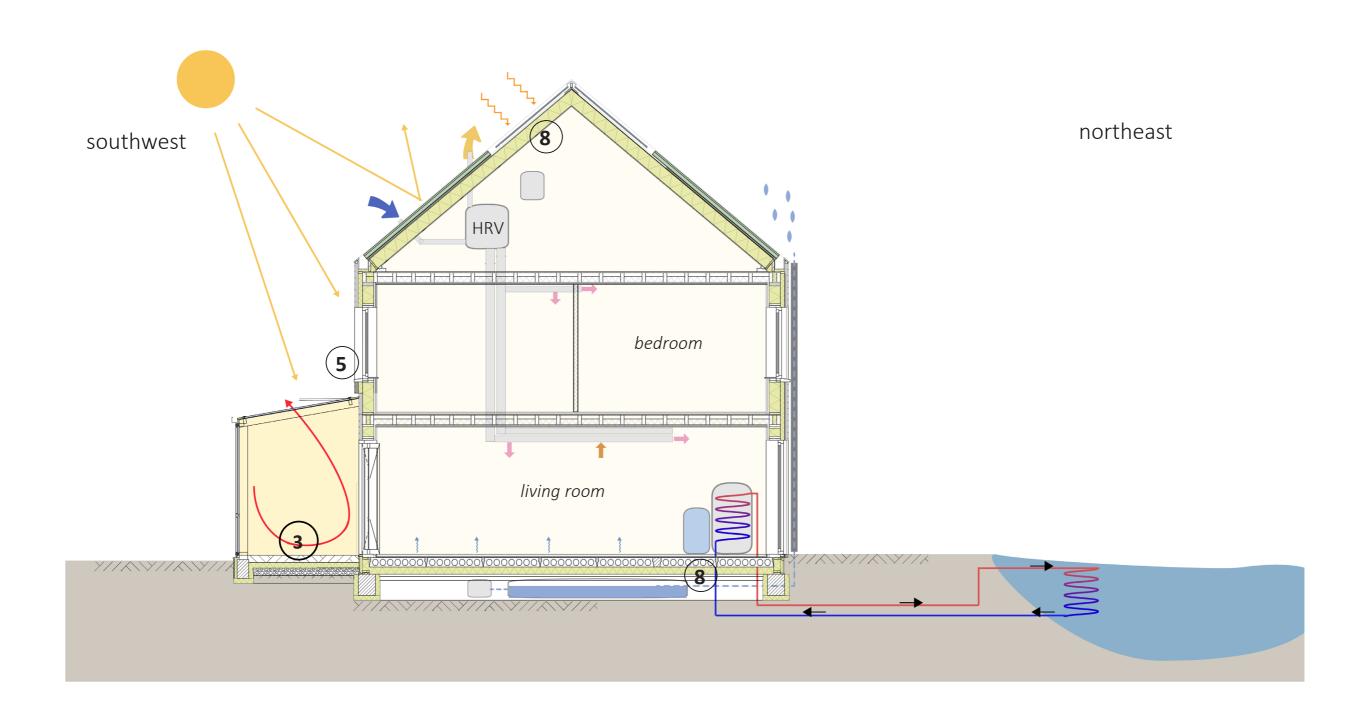
"extension of the living space"



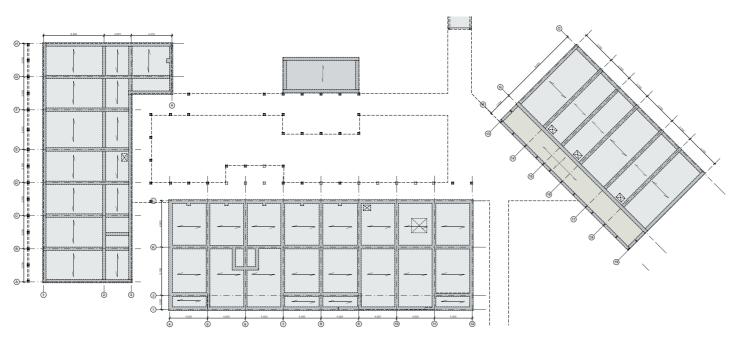
### CoLi Flow | climate diagram



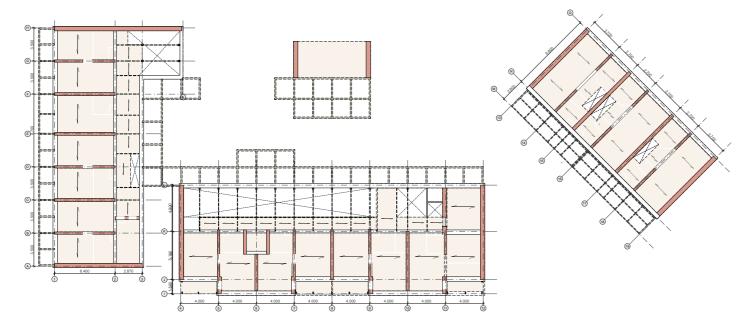
# CoLi Flow | climate diagram



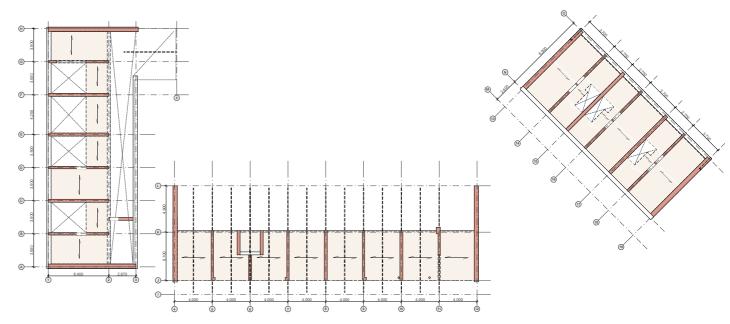
# CoLi Flow | construction



Ground floor + Foundation



First floor + Construction underneath

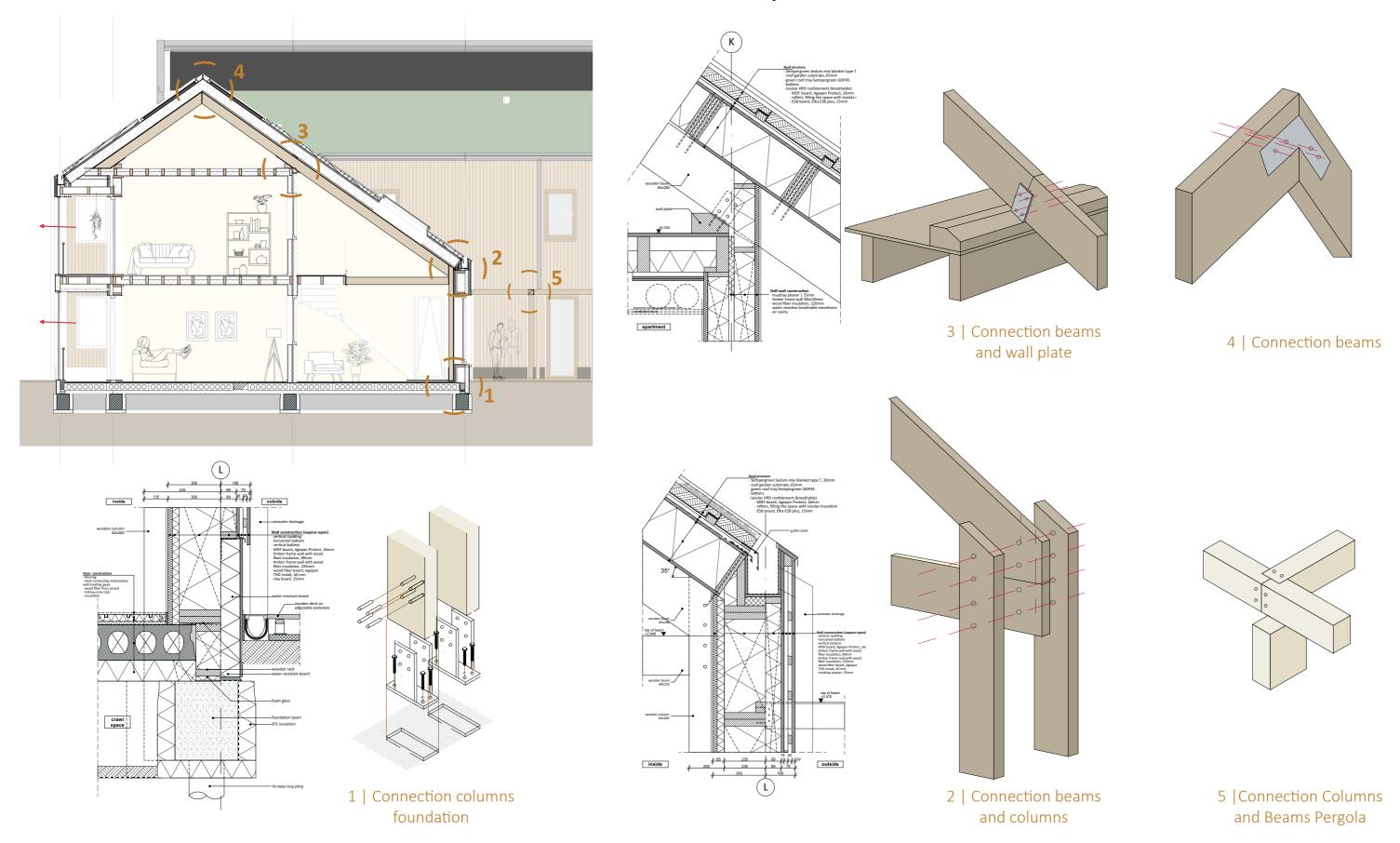


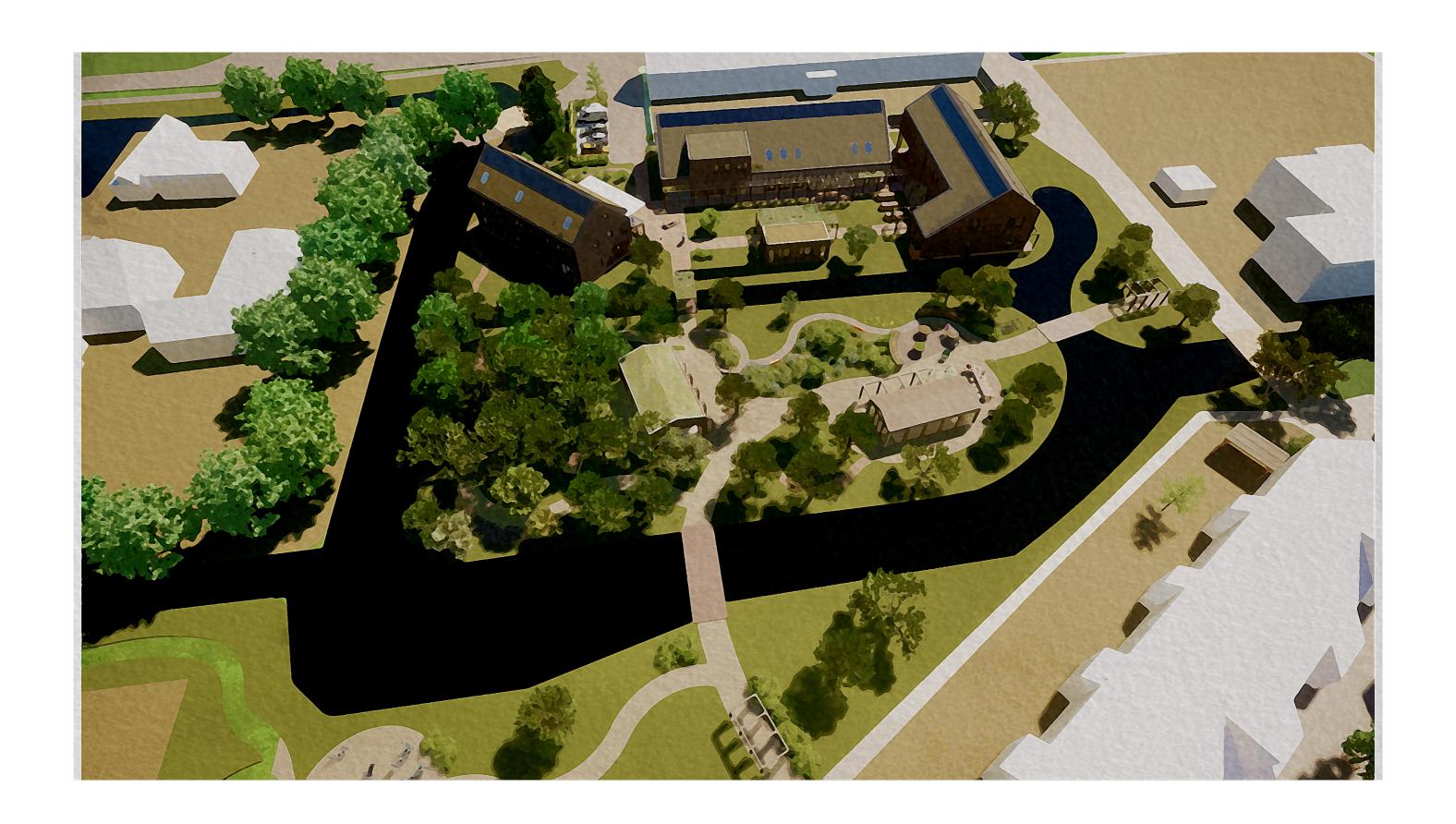
Second floor + Construction underneath



Impression timber construction

# CoLi Flow | joints





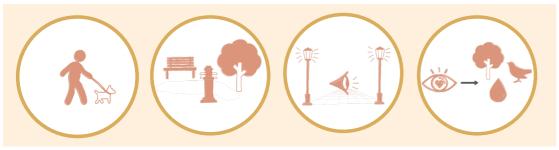












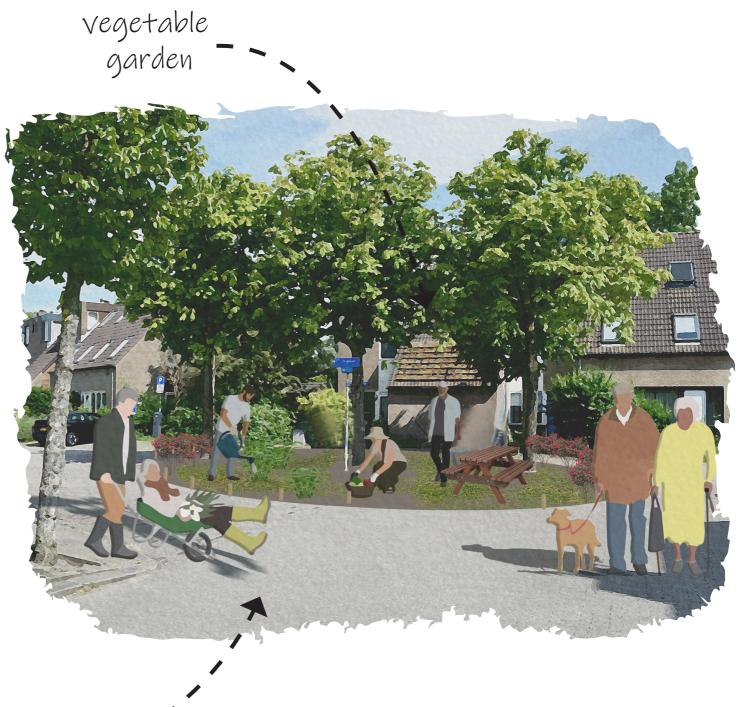
# Neighbourhood | activate living street





# Neighbourhood | activate living street





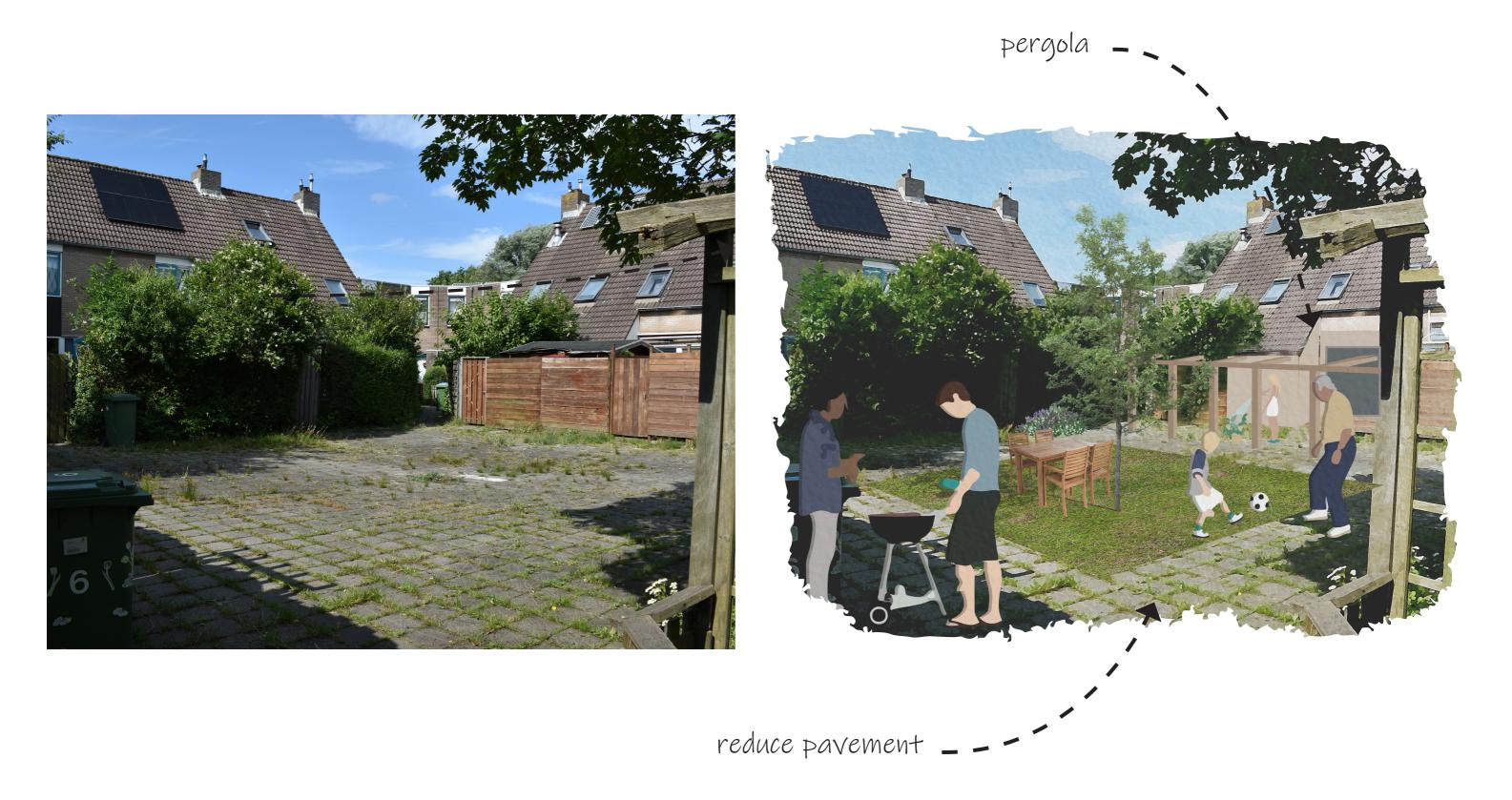
reduce pavement \_

# Neighbourhood | activate indoor courtyards





# Neighbourhood | Activate indoor courtyards



# Neighbourhood | Urban Farm



# Healthy Ageing through the Living Environment



"when a flower doesn't bloom you fix the environment in which it grows, not the flower."

- Alexander den Heijer

#### **Density** | compared to the neighbourhood

#### Dichtheid per km2 van bevolking, adressen en auto's on

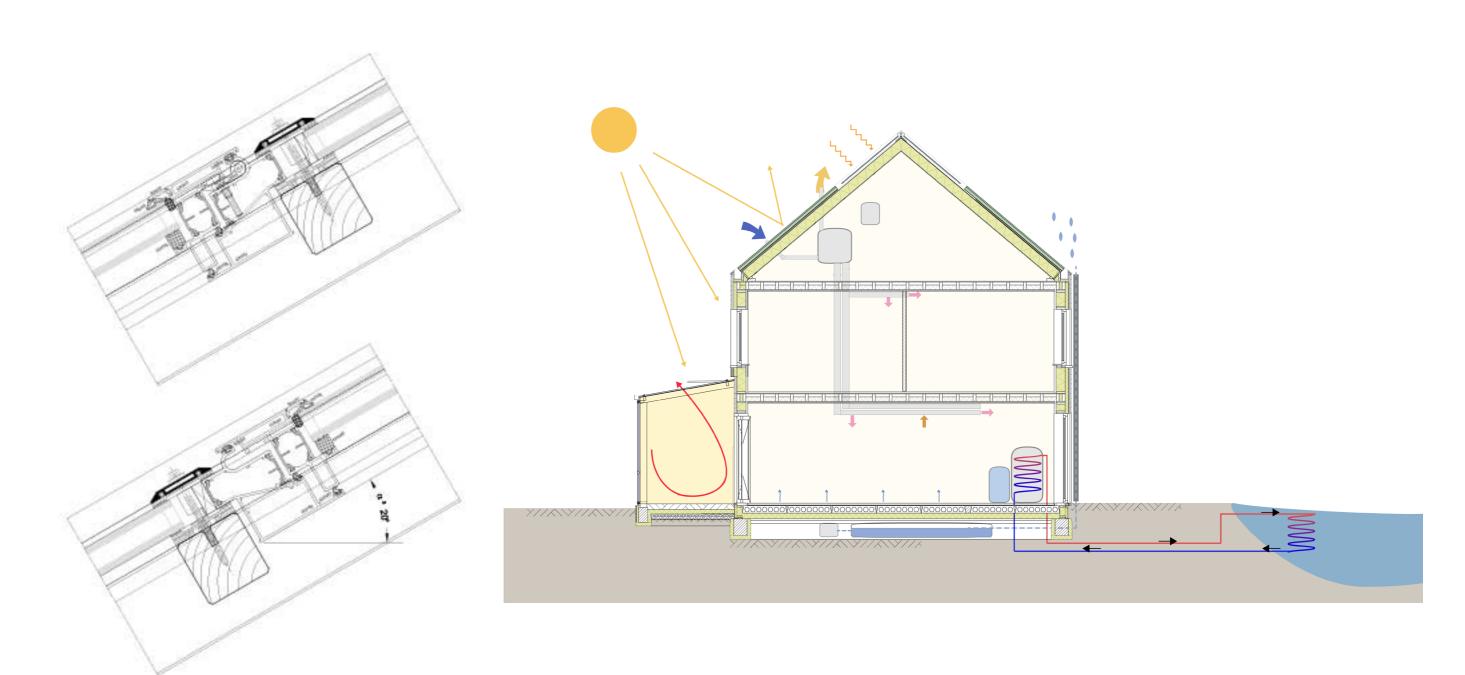
ek Tabel
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Onderstaande tabel toont de dichtheid van de bevolking-, adressen- en personenauto's per km2 oppervlakte in Nederland en de Latijns Amerikabuurt voor 2023:

Dichtheid	Nederland	Latijns Amerikabuurt	Co-li flow
Bevolking	533	8.455	10.699
Adressen	2.055	3.013	6.995

De data over het aantal inwoners-, adressen- en personenauto's per vierkante kilometer land geven een beeld van 'de mate van concentratie van menselijke activiteiten' in de Latijns Amerikabuurt ten opzichte van het gemiddelde voor Nederland. Merk op: de *gemiddelde* omgevingsadressendichtheid is een ander cijfer dan de uitkomst van het aantal adressen gedeeld door de oppervlakte. Zie de definities van de verschillende lokale verdichtingsmaten.

# Ventilation | sunroom

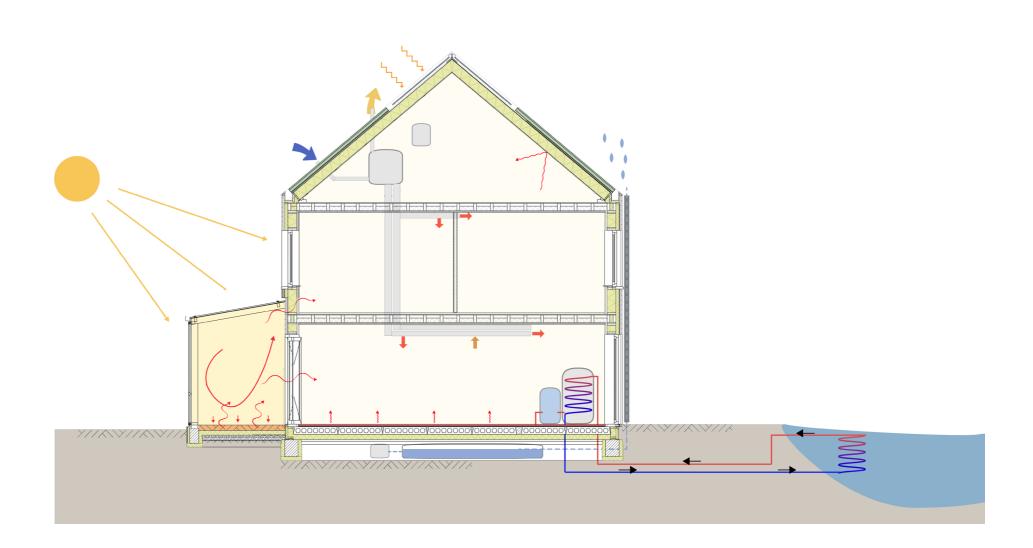


**Skylight Stabalux Ak-h** 

# Ventilation | sunroom



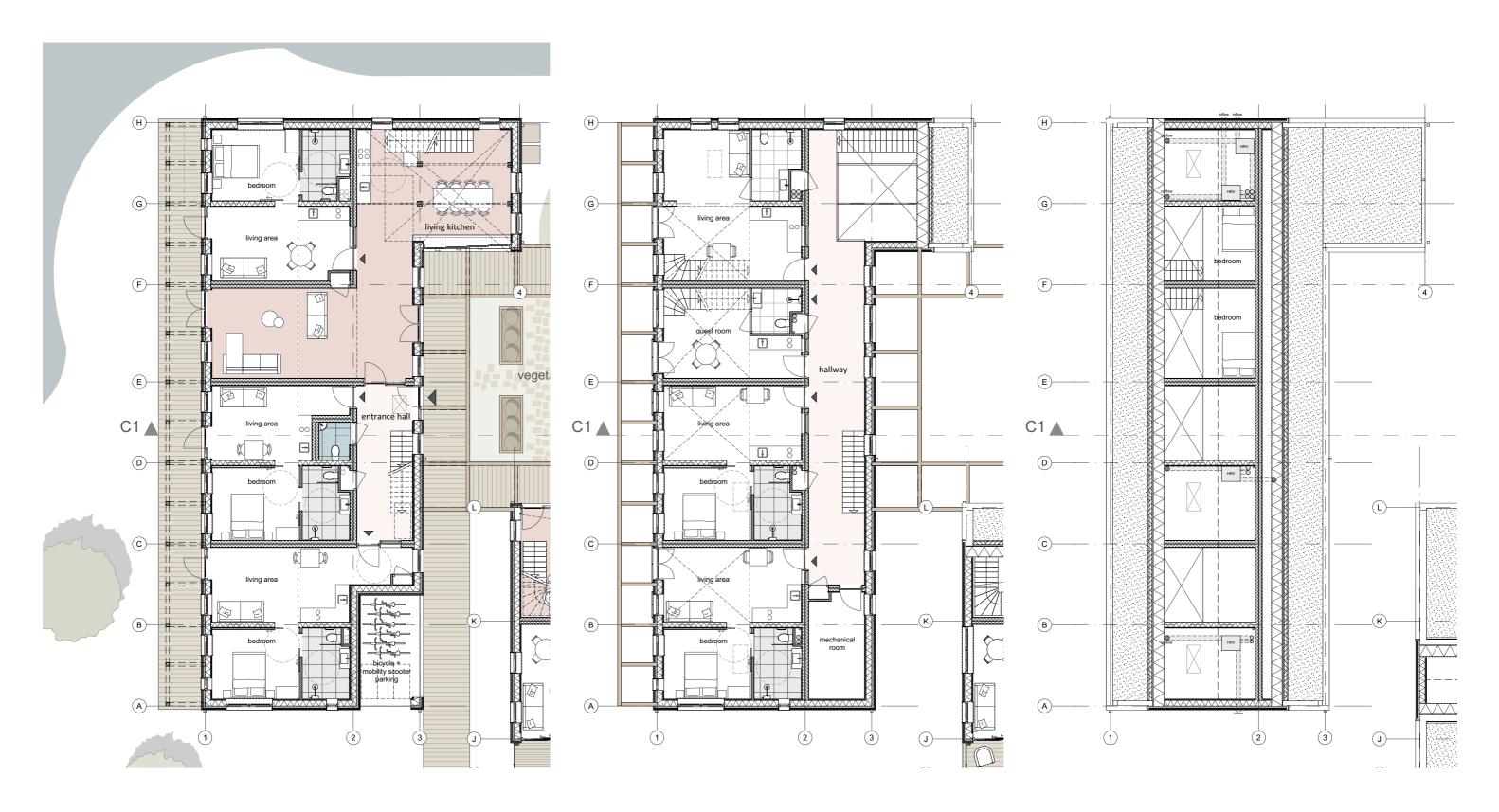




# Floorplans | Family Houses



### Floorplans | Cohousing 1



# Floorplans | Cohousing 2

