

healing community



lviv social resilient city 2.0 | urban density lab ukraine 2023 | vienna-lviv.info

master design studio, 10 ECTS, 260.796 | TU wien, FB städtebau, summerterm 2023

tutors: andreas hofer, andrea überbacher

students: laura sánchez fernández | 01623349 | laura.sanchez.216@gmail.com

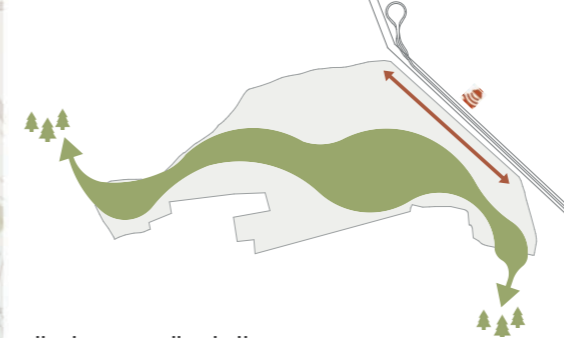
anna panni till | 01619950 | tillpanni97@gmail.com

URBAN DESIGN REFERENCES

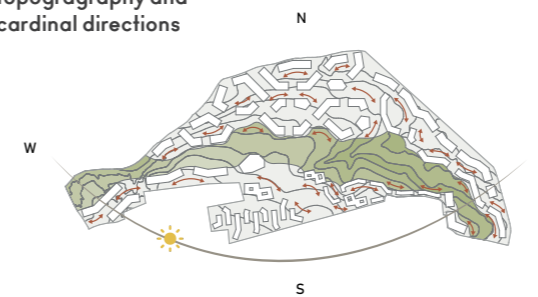
GREEN LINK | hanna müller | sofiya lukyanchenko | laura sipple



connecting green spaces
protecting from traffic noise



aligning according to the
topography and
cardinal directions

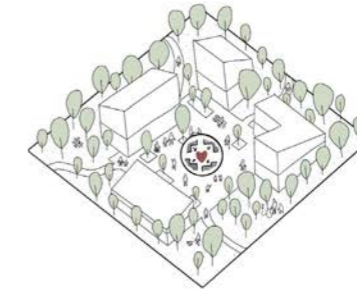


activating the park



DESIGN PRINCIPLES

human scale + sensitive
architecture



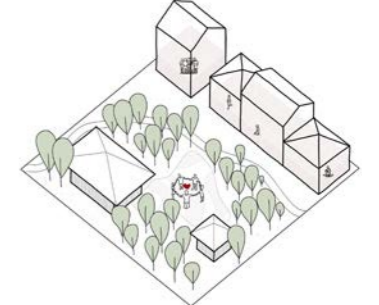
activated urban spaces
+ ground floor



productive
spaces for therapy



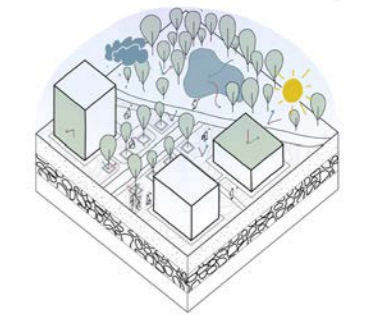
spaces for spirituality +
emotional support



inclusive use of
public space + nature



climate adaptive design



safe shelters



accessibility
for all



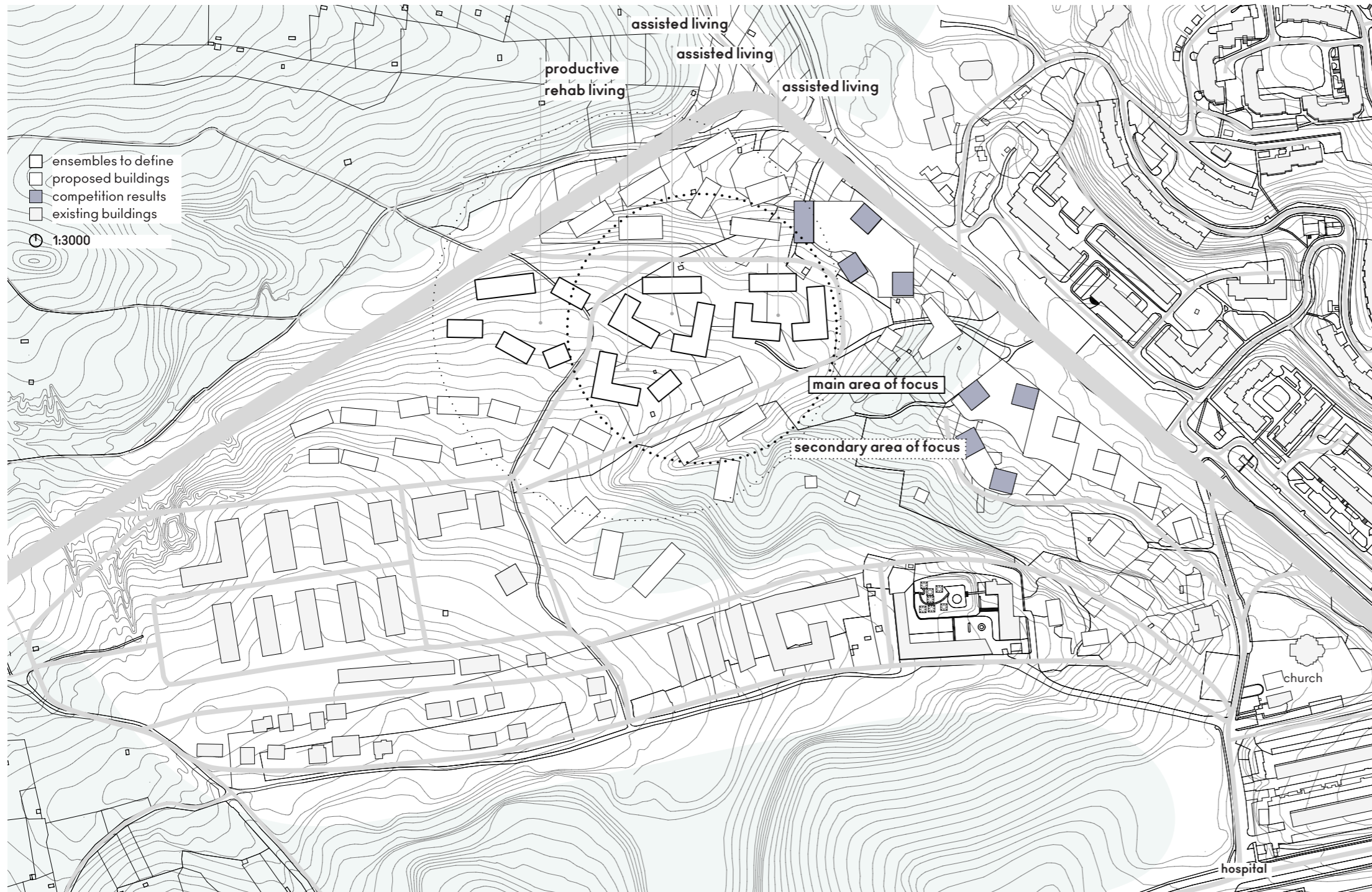
human scale + sensitive urban design

physical + mental rehabilitation

recreational + healing landscape

sustainable mobility + infrastructure

GENERAL URBAN DESIGN PROPOSAL



- ensembles to define
 - proposed buildings
 - competition results
 - existing buildings
- 1:3000



REFERENCES

modularity

DGJ architektur /
wohnguppe
'gemeinsam suffizient leben'



materiality & human scale

arkithema / kronborg strandby



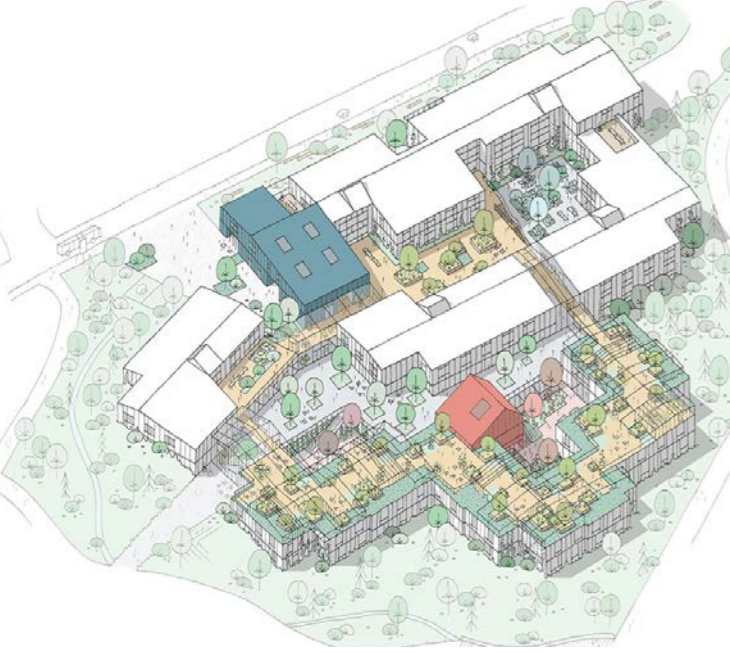
modular timber construction

oopeaa / puukuokka housing block



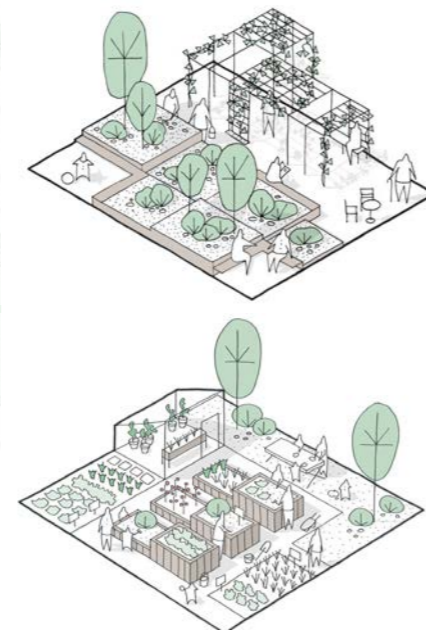
courtyard system

north architects / olsrod nursing home



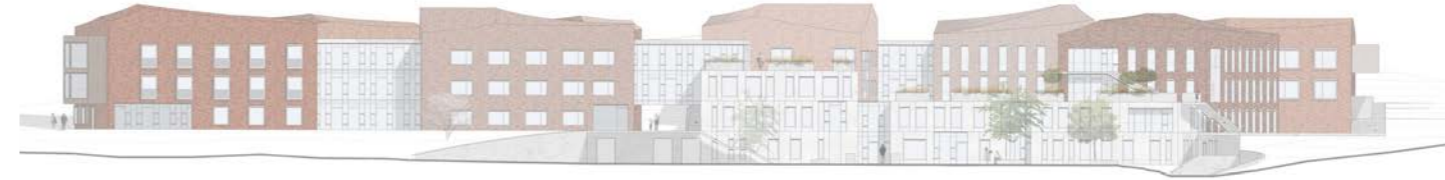
engagement w/ nature

north architects / dax alzheimer village



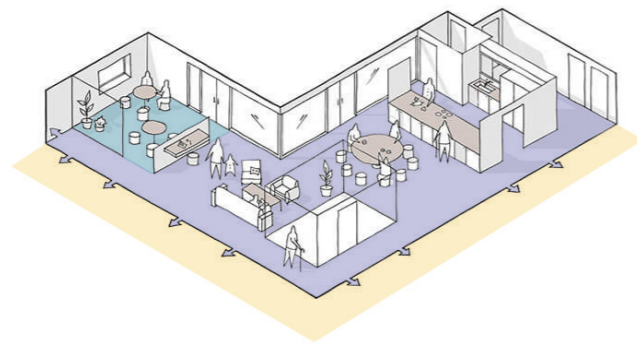
integration in topography & identity

busarchitektur / nursing home in wienerwald, competition entry

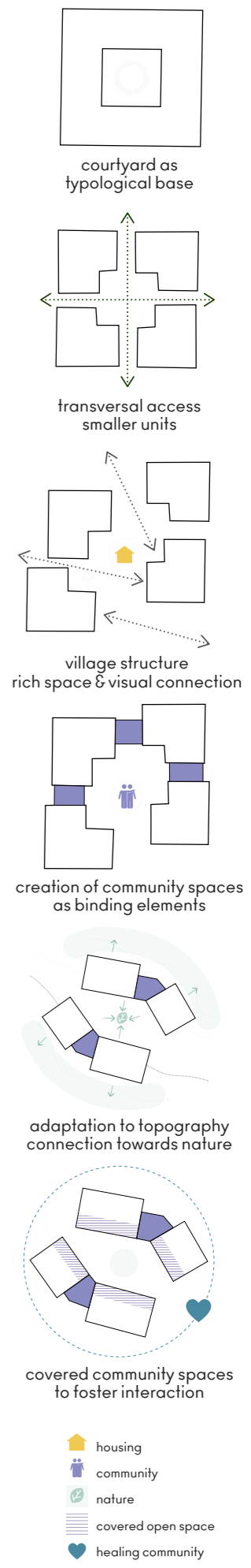


common rooms

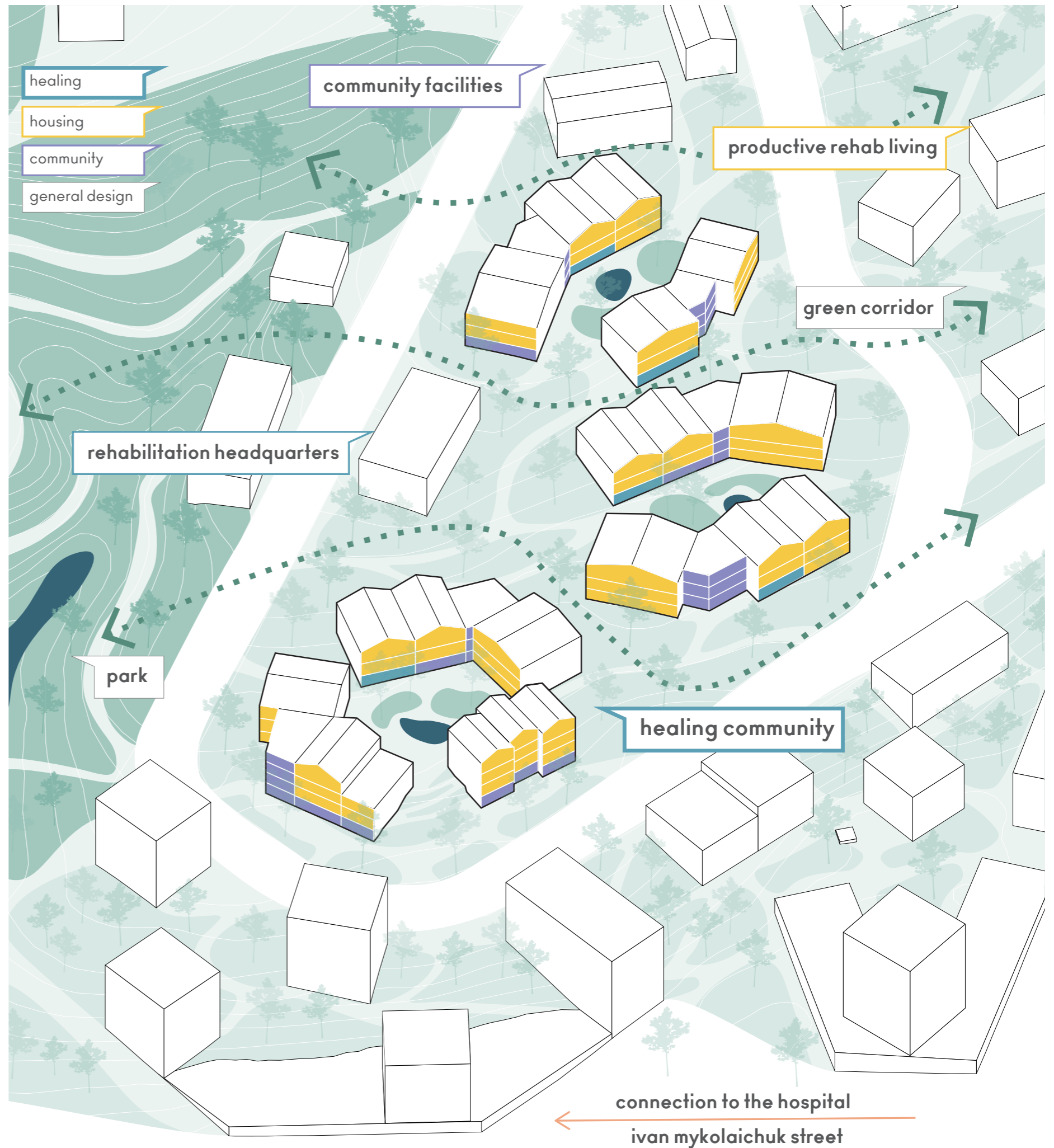
north architects / olsrod nursing home



SPATIAL & TYPOLOGICAL CONCEPT



TARGET GROUPS & CONCEPT GRAPHIC



CONCEPTUAL SITE PLAN



forest

productive rehab living

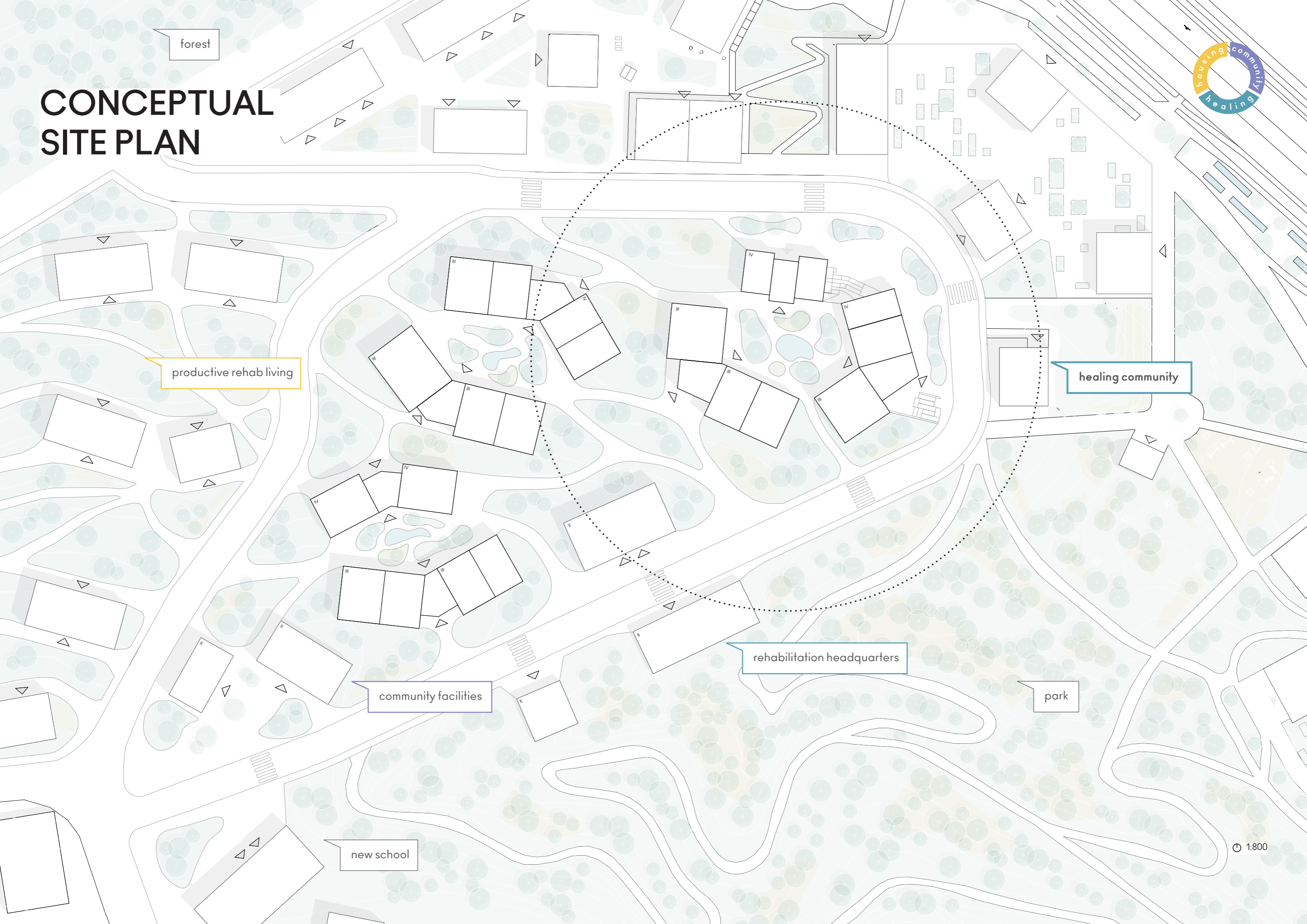
healing community

rehabilitation headquarters

community facilities

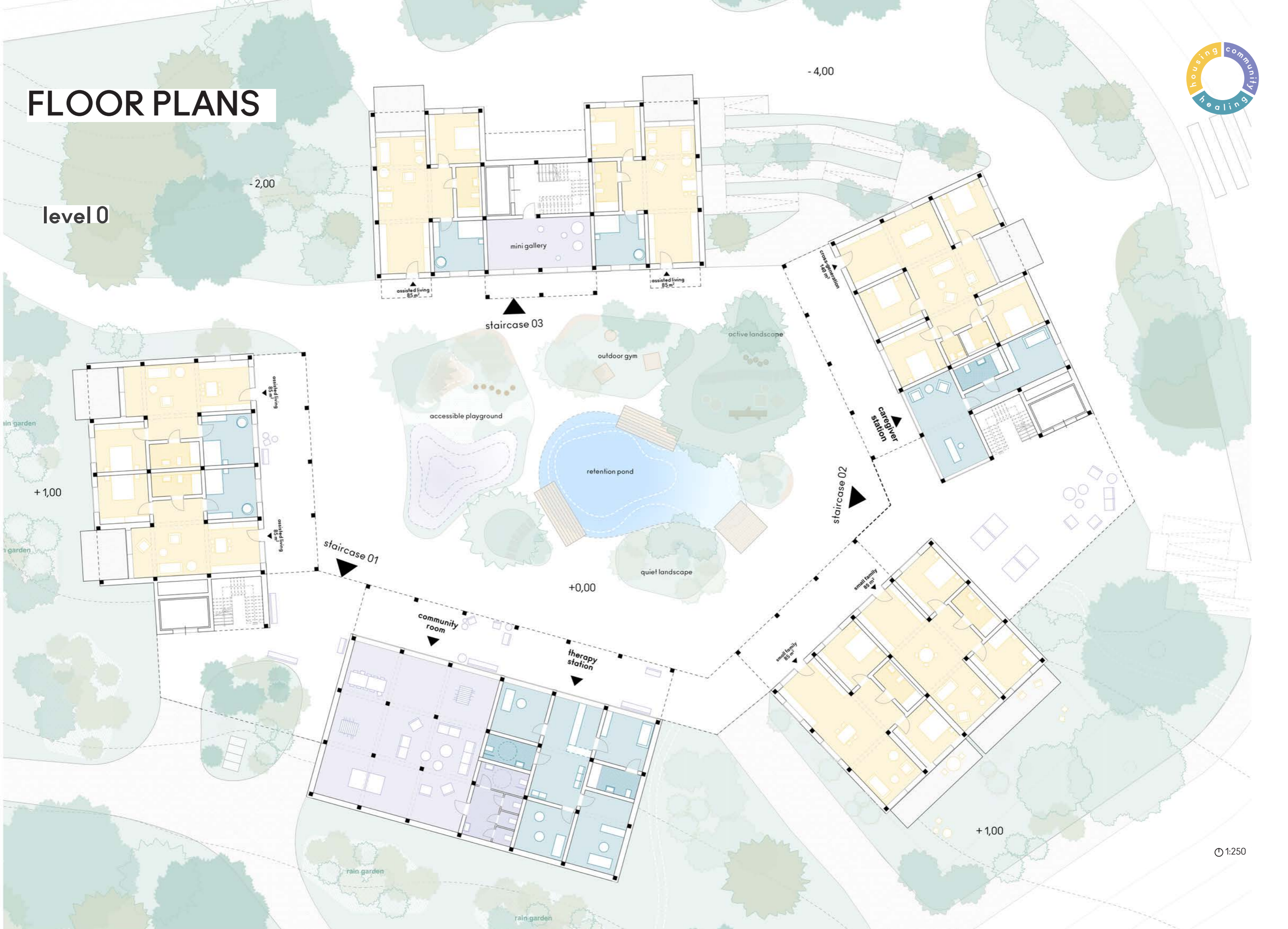
park

new school



FLOOR PLANS

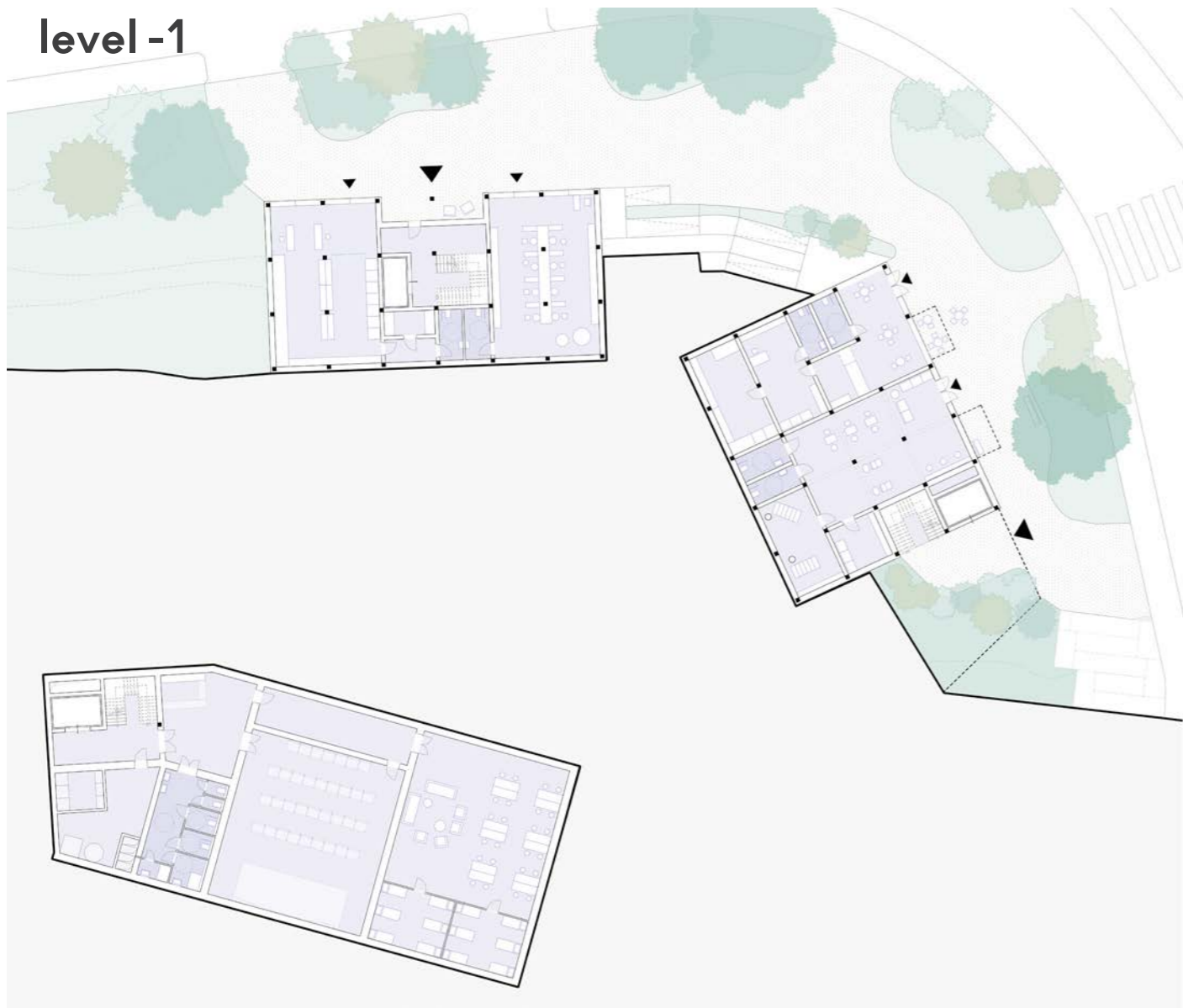
level 0



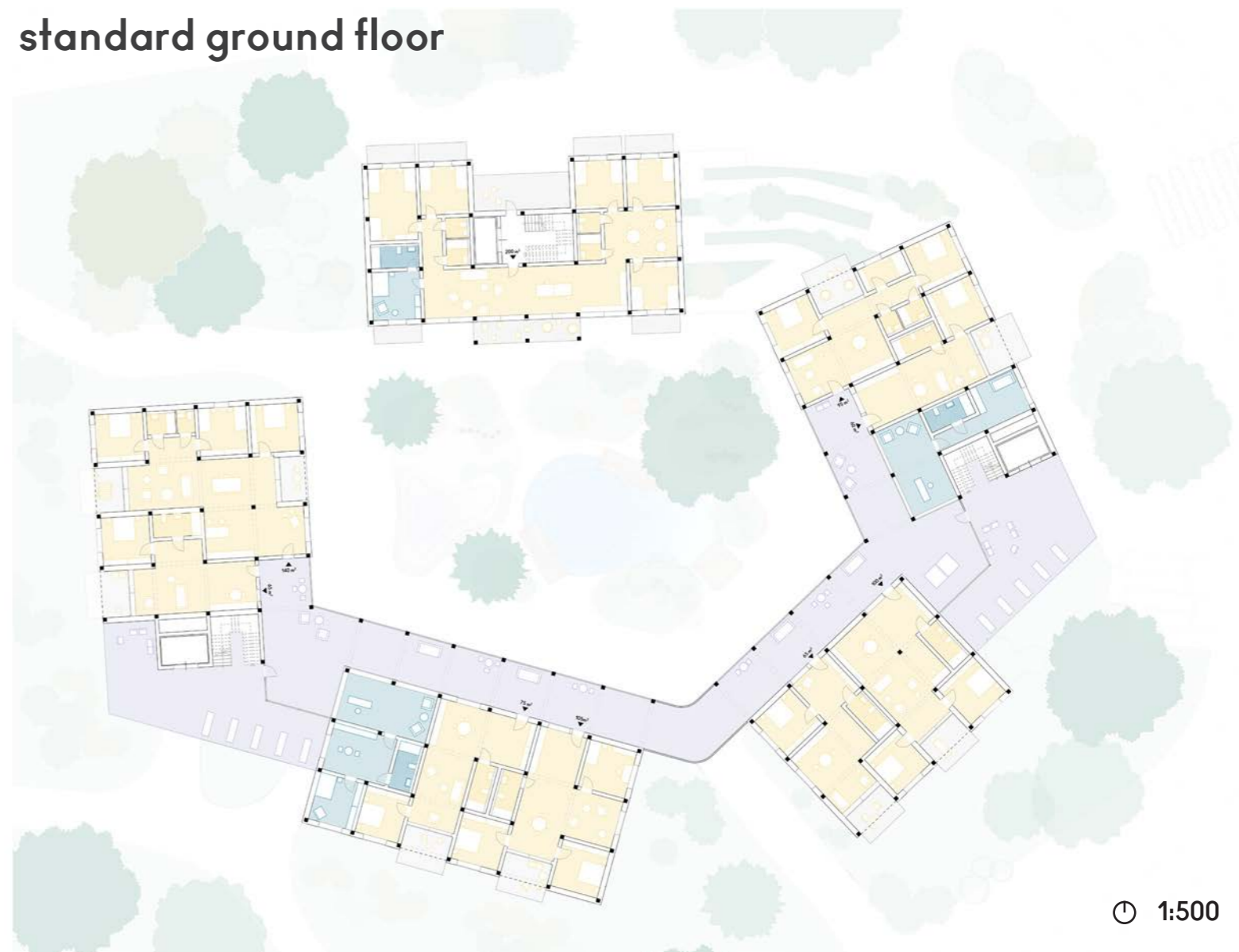
FLOOR PLANS



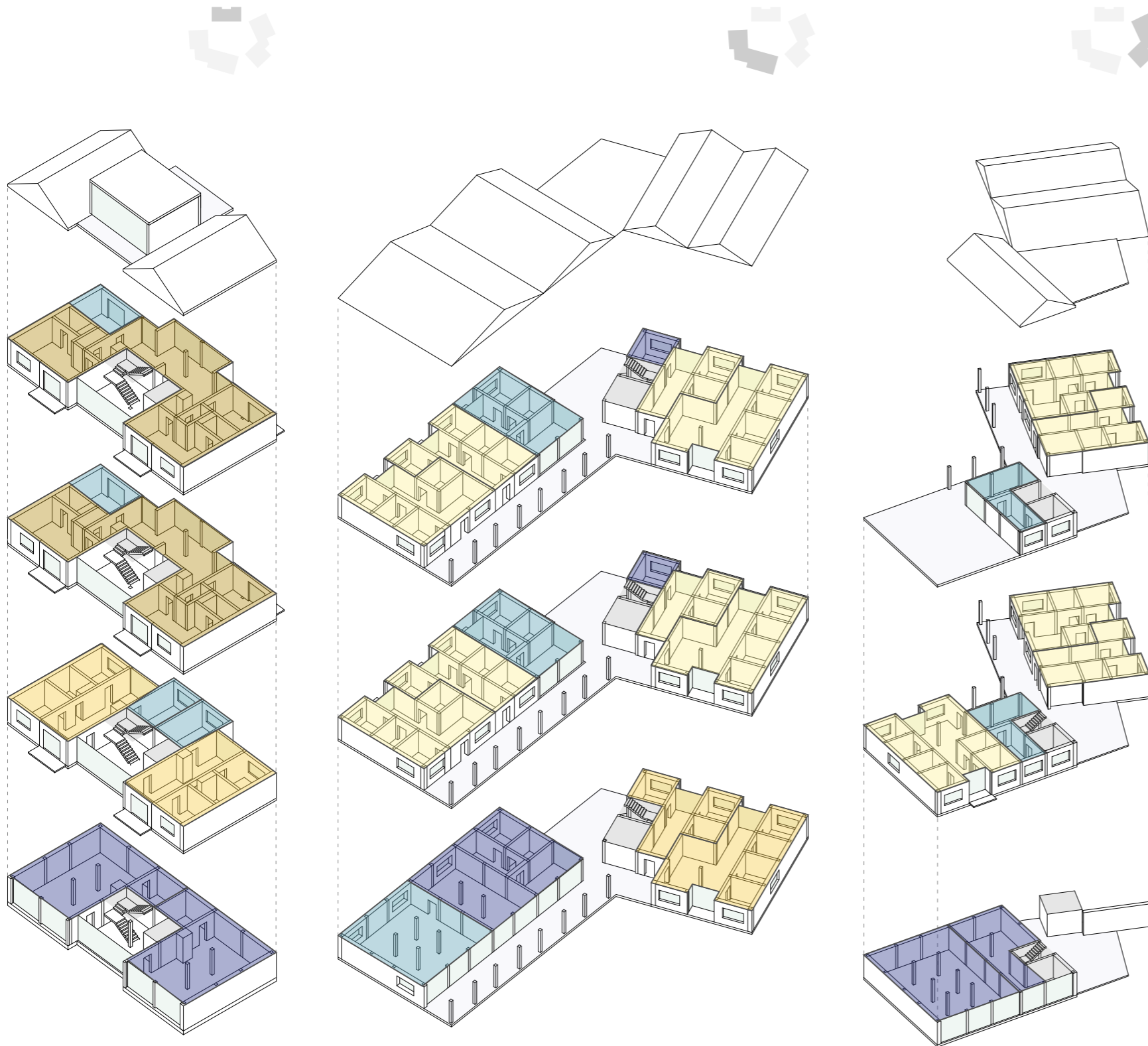
level -1



standard ground floor

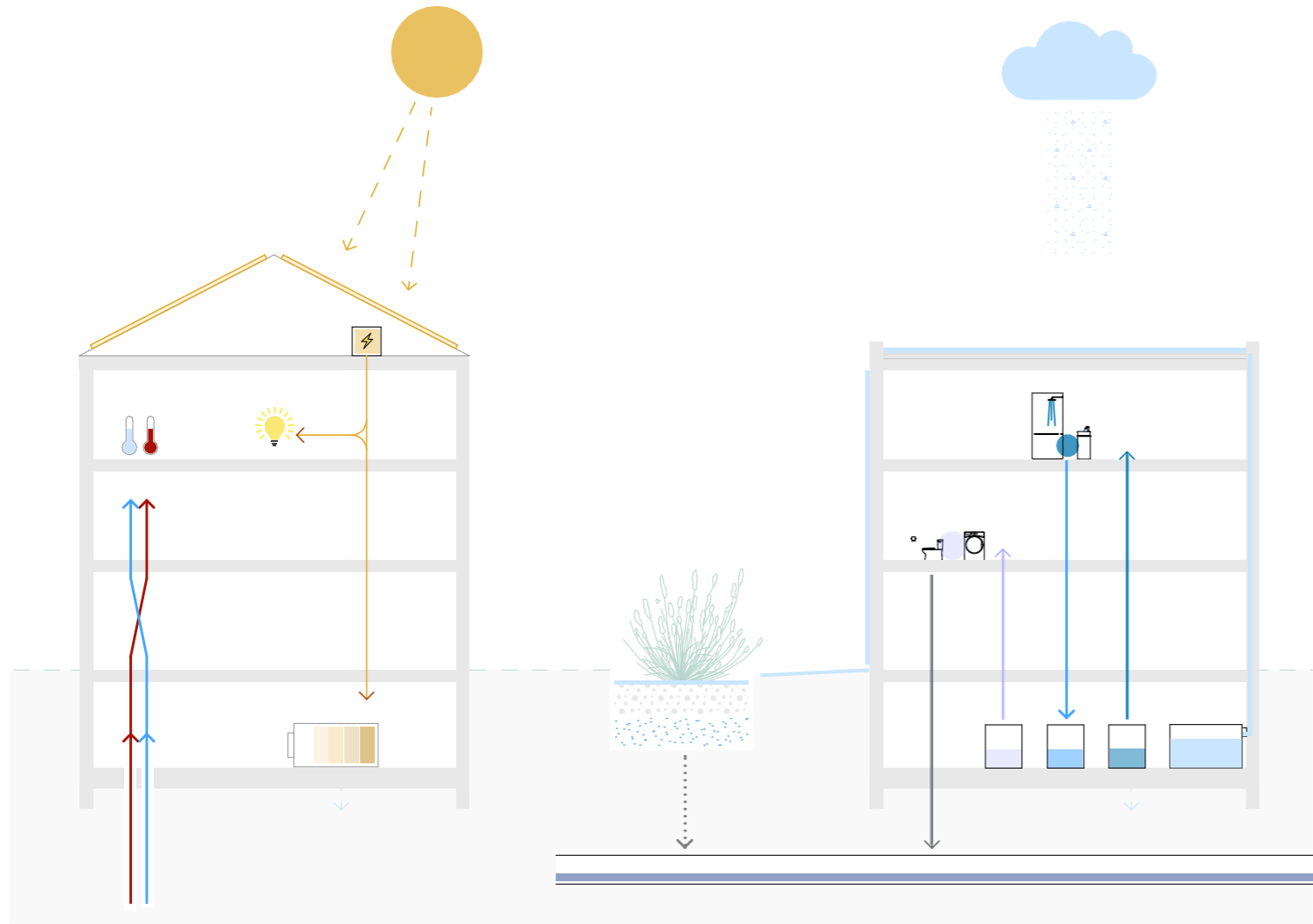


FUNCTIONAL DISTRIBUTION



- **independent residential apartment [4]**
family type 4 [4 bedrooms/up to 6 residents]
- **independent residential apartment [4]**
family type 3 [3 bedrooms/up to 5 residents]
- **independent residential apartment [4]**
family type 2 [2 bedrooms/up to 4 residents]
- **independent residential apartment [7]**
family type 1 [1 bedroom/up to 2 residents]
- **personal assisted living [4]**
ACCESSIBLE family type 1 [1+1 bedrooms/up to 2 residents + 1 care giver]
- **assisted youth living [2]**
youth shared apartment [5+1 bedrooms/up to 10 assisted residents]
- **care giver residence [4]**
small nurse apartment [up to 2 care workers]
- **care giver office & residence [4]**
office + small nurse apartment [up to 2 care workers]
- **doctor practice**
special physical/mental therapy [up to 4 care workers]
- **community room**
multi-purpose flexible room for activities
- **bakery**
employment & occupational therapy [up to 4 employed residents]
- **beauty salon**
employment & occupational therapy [up to 4 employed residents]
- **grocery shop**
employment & occupational therapy [up to 4 employed residents]
- **atelier**
employment & occupational therapy [up to 4 employed residents]
- **active (un)covered rooftop**
urban gardening, comm. activities

SUSTAINABILITY & SOCIAL RESILIENT CONCEPT

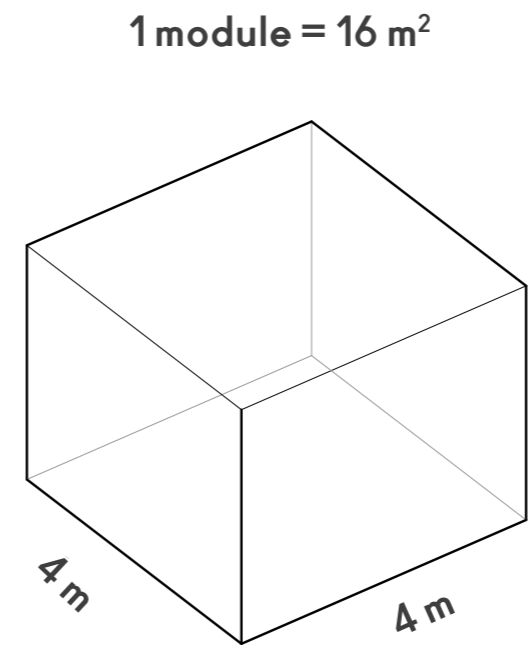


energy concept

independent energy production through solar panels & geothermal heat pumps

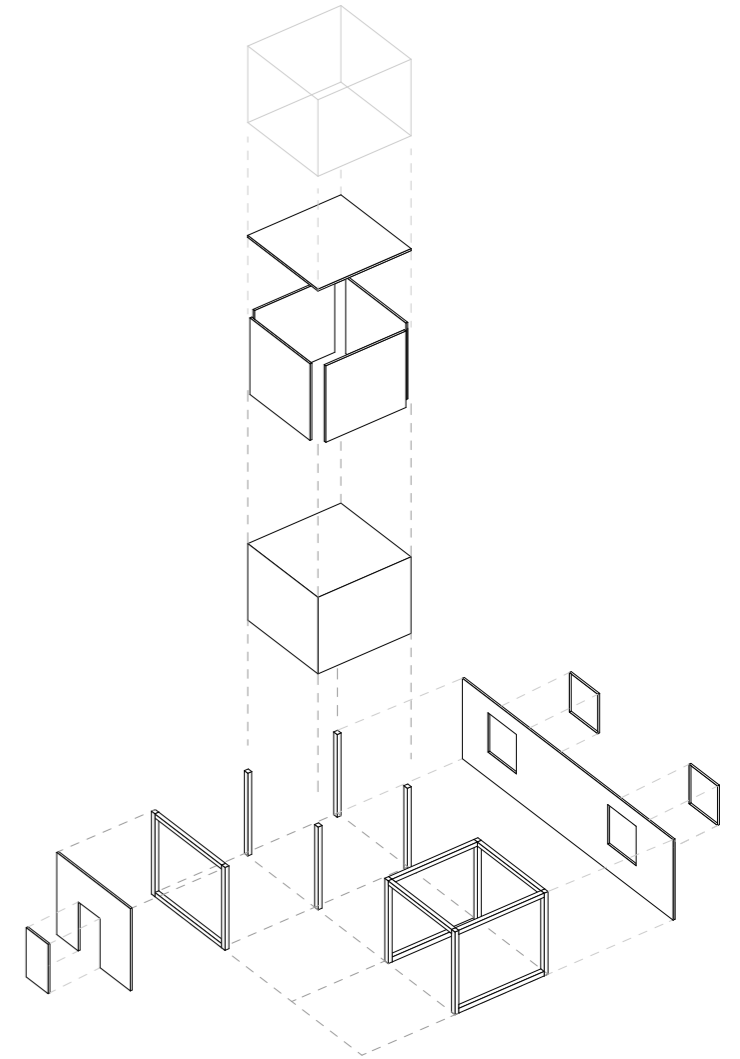
water management

rain water harvesting & water depuration and reuse

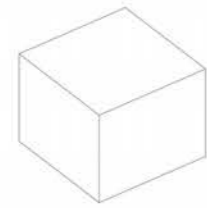


timber modular construction system

reduced carbon footprint, flexibility, easy repair & rapid assembly



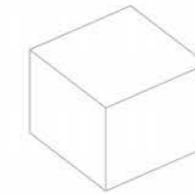
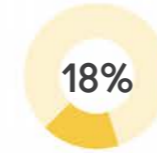
DIVERSITY OF INHABITANTS



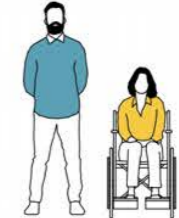
4 modules



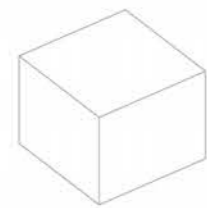
care giver station



6 modules



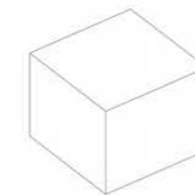
assisted living



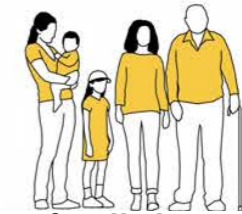
4 modules



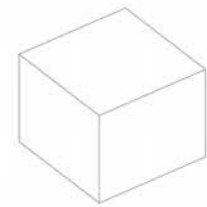
single home



7 modules



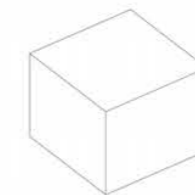
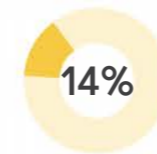
family home



5 modules



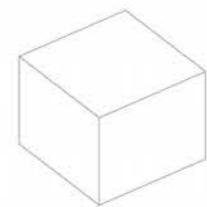
couple home



9 modules



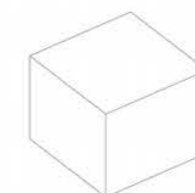
cross-generation home



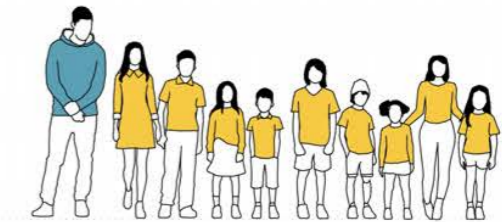
6 modules



small family



14 modules



assisted youth living

single apartments [5]
5 people [6,5%]

couple apartments [2]
4 people [5%]

small family apartments [4]
16 people [21%]

family apartments [3]
15 people [20%]

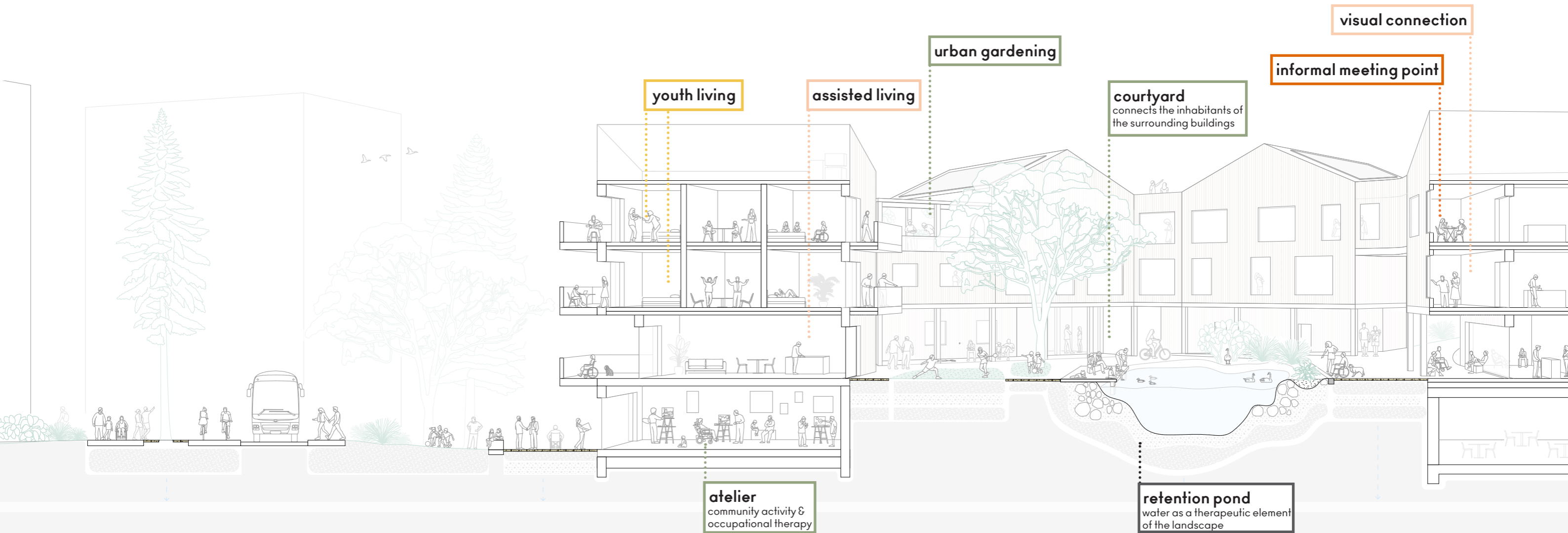
multigenerational family apartments [1]
8 people [10,5%]

assisted living [4]
8 people [10,5%]
4 care givers

assisted living for minors [2]
20 people [26,5%]
4 care givers

= 21 apartments
= 76 people
= 8 care givers

SECTION THROUGH COURTYARD





what is trauma informed design?

trauma-informed design is a framework combining **trauma-informed care** with the **design process**. this framework focuses on ways to design a building to help regulate the body and support therapeutic approaches.

since trauma lives and works through the body, and the body reacts to physical space before we cognitively process it, **the built environment is integral to how one experiences trauma**.

the spatial principles and design values should be implemented hand-in-hand with a **participatory pre-design process** [interviewing residents and staff] and a **focus on comfort, community, and choice inside a safe environment**.

source: grabowska, sam, et al. 2021. architectural principles in the service of trauma-informed design. denver, CO: shopworks architecture, center for housing and homelessness research at the university of denver, and group 14 engineering.

safety

above all, to support the process of healing in the built environment, the spaces have to offer a sense of safety, being able to have direct visual connection with the care giver station and the landscape. other aspects regarding safety include proper orientation and lighting.

choice

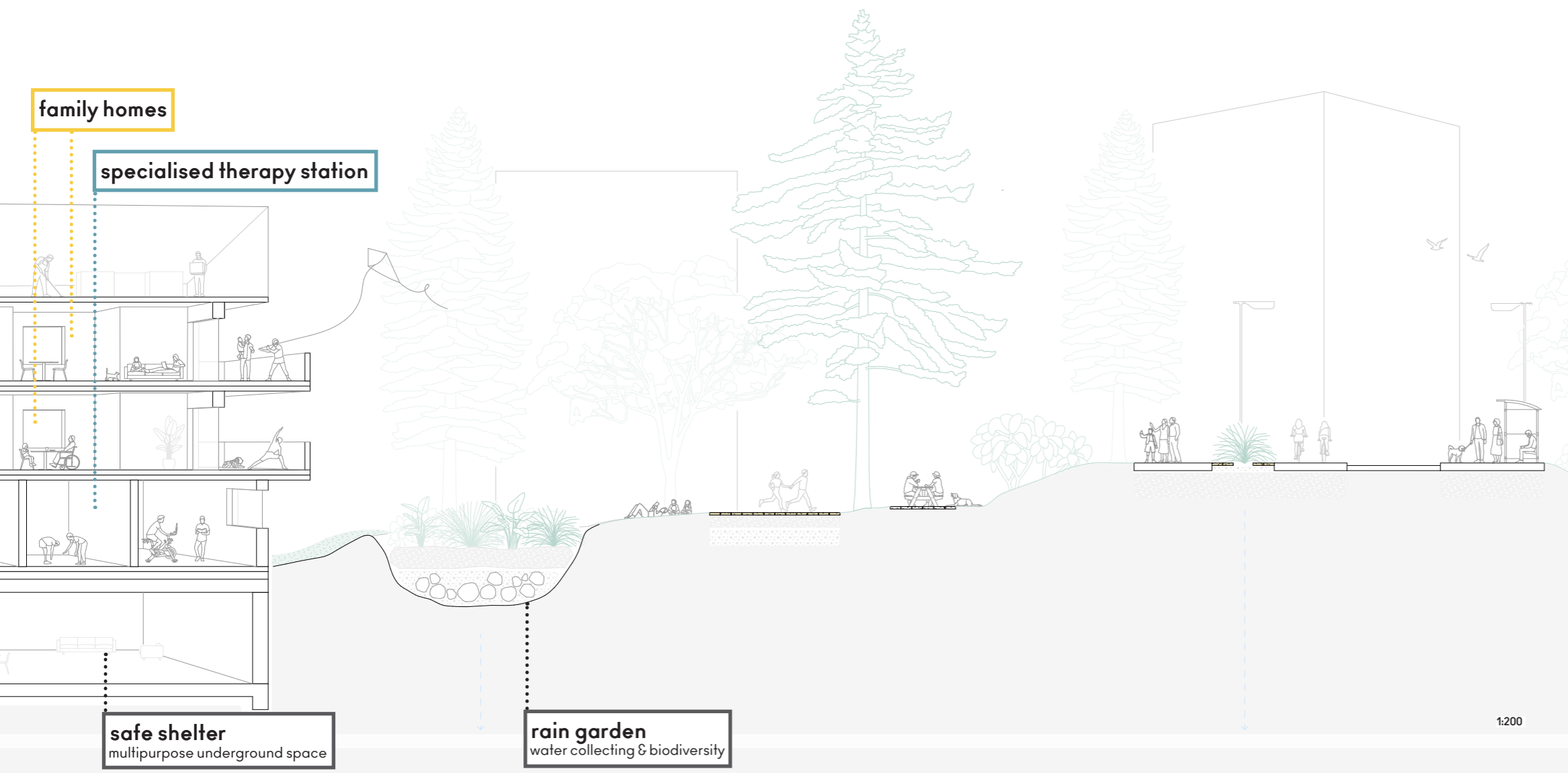
different settings for sitting, resting, activities in- and outdoors, offering the chance to be part of social activities or to enjoy solitude... to encompass each user's needs in time.

connection

the residents must be able to connect with themselves, other residents, the staff, the surroundings and the building. to achieve this multi-level connection, the built environment must be curated to allow these to happen in many different ways.

comfort

elements that influence the perceived comfort of a space are related to physical aspects, such as the quality and abundance of light, the use of natural materials, a good ventilation, and also design elements in the built environment that are aesthetically pleasing which communicate dignity and worth.



family homes

specialised therapy station

safe shelter
multipurpose underground space

rain garden
water collecting & biodiversity

1:200

VOLUMETRIC & FUNCTIONAL PROPOSAL



independent residential ap. [2]
family [4 bedrooms/up to 6 people]

independent residential ap. [3]
family [2 bedrooms/up to 4 people]

community spaces
rest & communication for residents

active open rooftop
gardening, community activities

beauty salon
employment & occupational therapy

bakery
employment & occupational therapy

atelier
employment & occupational therapy

grocery shop
employment & occupational therapy

personal assis. living [2]
2 people + 1 caregiver per unit

youth assisted living [2]
8 children + 2 caregivers per unit

active covered rooftop
gardening, community activities

courtyard
pond, sitting, gardening,
playground, community

community space[GF]
multifunctional space

doctor [GF]
specialized therapy

nurse office & residence
small nurse apartment [up to 2 people/unit]

independent residential ap. [8]
big & medium families [up to 6 people/unit]

personal assis. living [2]
up 4 people + 1 caregiver per unit

