

UPSCALING DEMENTIA ARCHITECTURE



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5248035 | 04-07-2023



PROBLEM STATEMENT



GROWING PROBLEM

amount of people with dementia will be doubled in 2040



NO NEW NURSING HOMES

people with dementia have to live longer at home



IMPROPER HOUSEHOLD

homes and neighborhoods are often not suited for requirements



SOLUTIONS LIMITED

current solutions are either too small scaled or expensive

**THERE IS A BIG
PROBLEM, WHERE
ARE THE SOLUTIONS?**



WHAT?

RESEARCH QUESTION

How can architectural and built-environmental solutions be implemented into existing Dutch neighborhoods to allow people with dementia to live in their own homes for as long as possible?

SUB-QUESTION

What are the specific or spatial needs of people in various stages of dementia?

SUB-QUESTION

What architectural principles can assist and add value to people with dementia? (micro scale)

SUB-QUESTION

How can the found architectural principles be upscaled for Dutch neighborhoods? (macro scale)



HOME LEVEL



BUILDING LEVEL



STREET LEVEL



NEIGHBORHOOD

MICRO SCALE

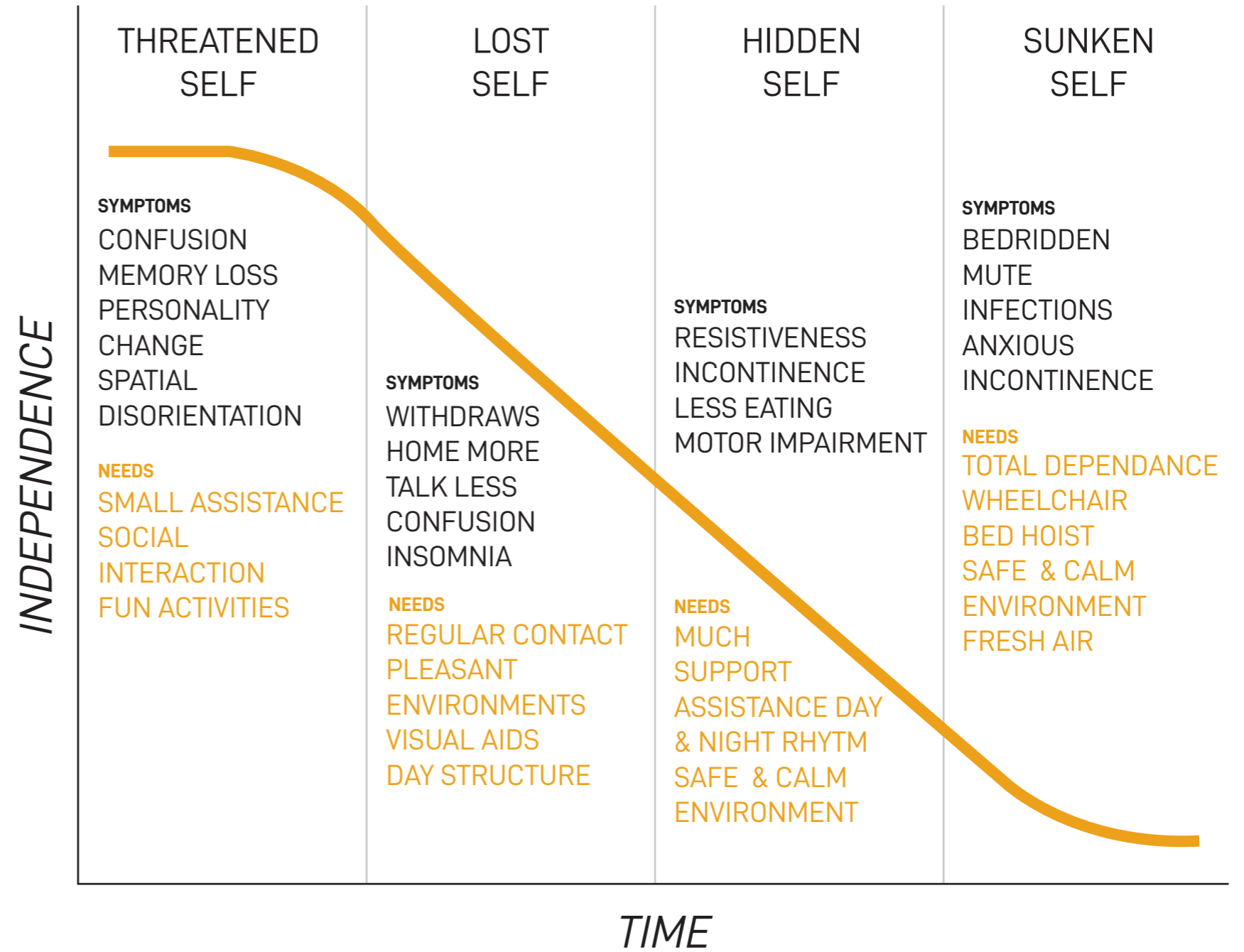
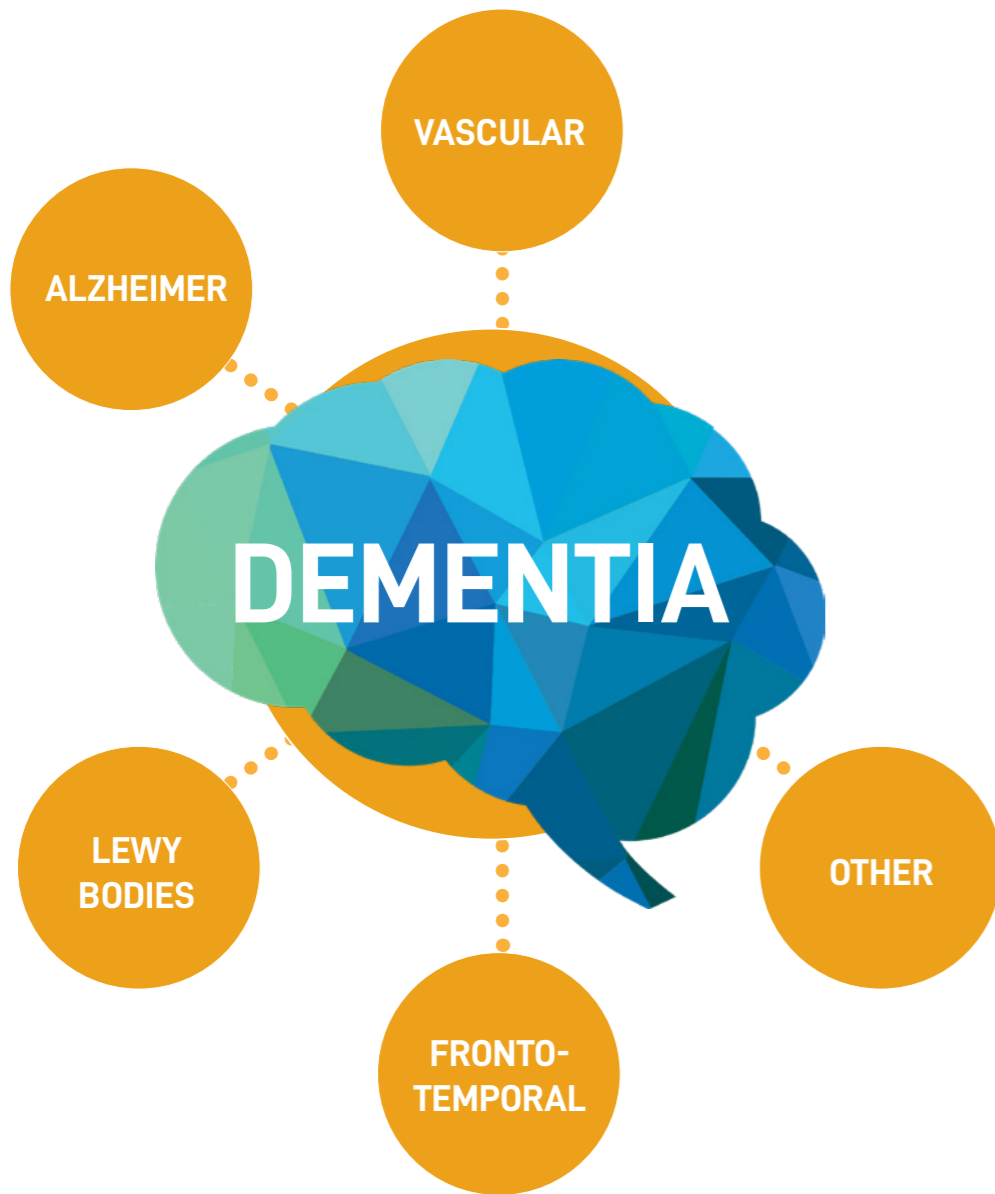
AGING IN PLACE STRATEGY

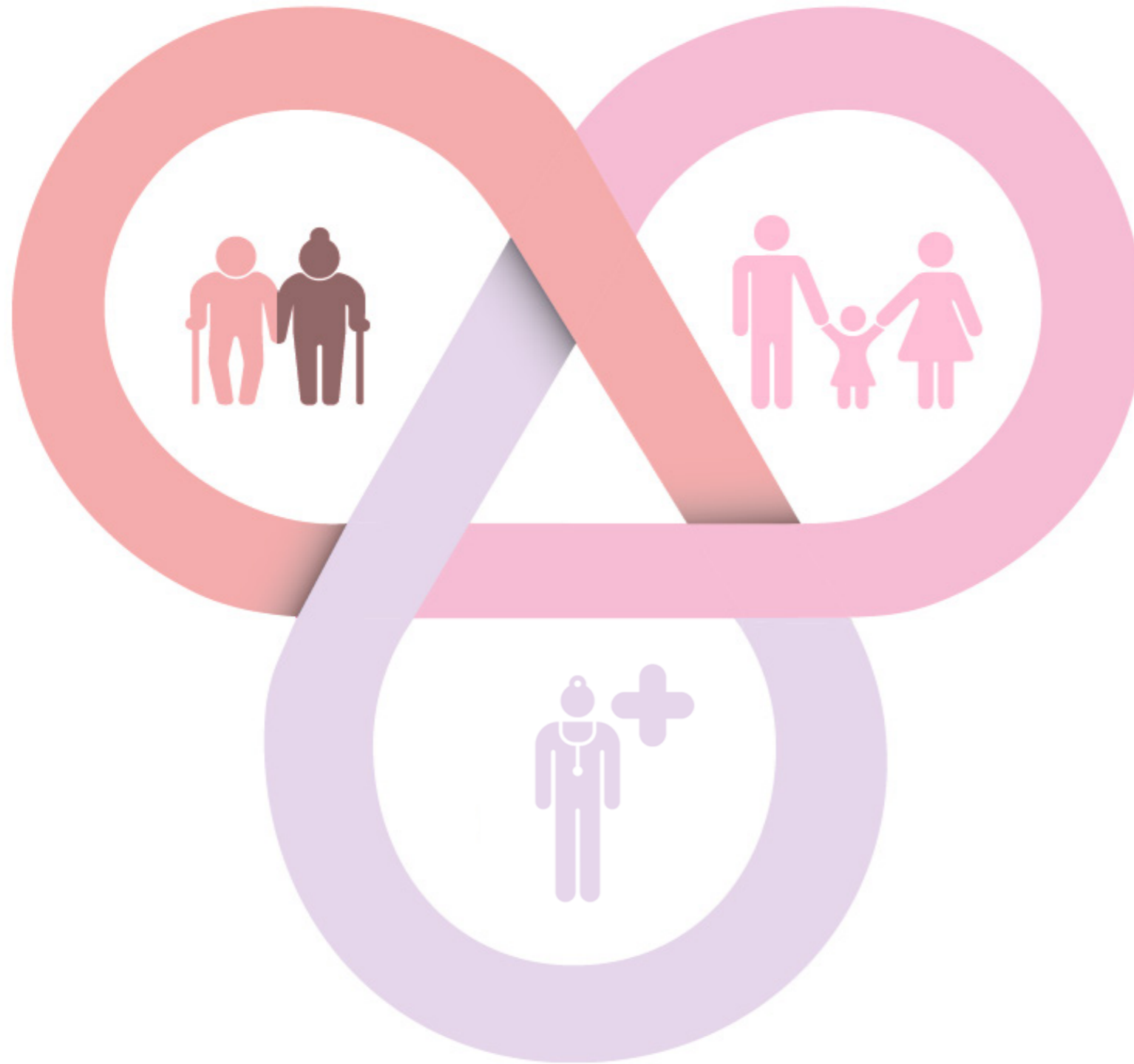
MACRO SCALE

TARGET GROUP



DEMENTIA





DEMENTIA

- ELDERLY
- INFORMAL CAREGIVERS
- FORMAL CAREGIVERS

WISHES & NEEDS

Dementia & Caregivers



**ELDERLY WITH
DEMENTIA**



**INFORMAL
CAREGIVERS**



**FORMAL
CAREGIVERS**

NEEDS

Assistance
Social interaction
Tailored activities
Clear day rhythm
Pleasant environments
Visual aids

More personal time
Social interaction
Formal care at home
Information about
dementia
Help from Case Manager

Efficiency in care
Clear overview on patients
Fast access to facilities
Retreat for themselves
Training for dementia

SOLUTION

WIJKZORG
(IN)FORMAL CAREGIVER
INFO CENTER
DAYCARE

WIJKZORG + CASE MANAGER
FORMAL CAREGIVER HELP
INFO CENTER
DAYCARE

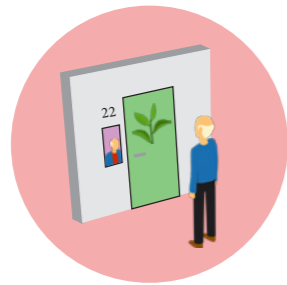
**NEARBY FACILITIES IN
NEIGHBORHOOD**
INFO CENTER
NURSING STATIONS

DESIGN PRINCIPLES

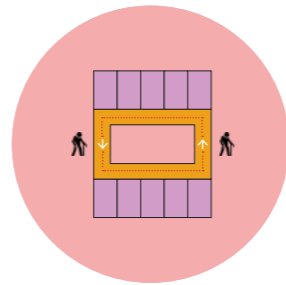


DEMENTIA FRIENDLY PRINCIPLES

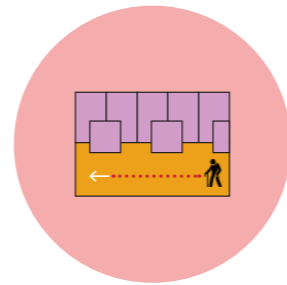
Micro-scale



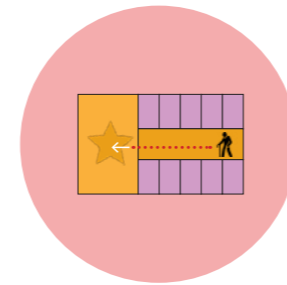
DISTINCTIVE PERSONAL ELEMENTS



CIRCULAR ROUTES AND NO DEAD ENDS



RHYTHMIC NICHES IN CORRIDORS FOR MORE STIMULI



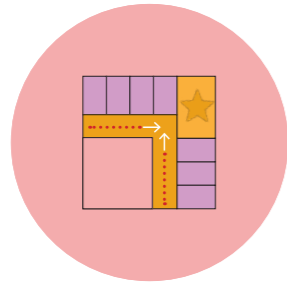
DESTINATION ON THE END OF THE CORRIDOR



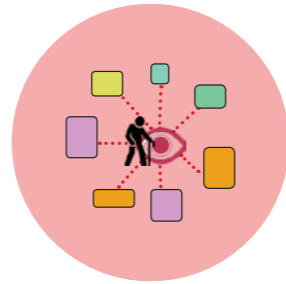
USE WOOD FOR NATURAL, COZY & FAMILIAR ATMOSPHERE



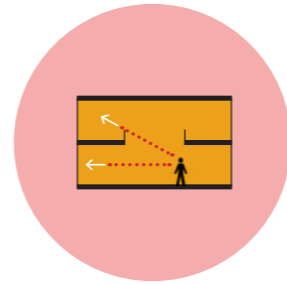
SOURCE OF SMELL SHOULD BE VISIBLE TO AVOID CONFUSION



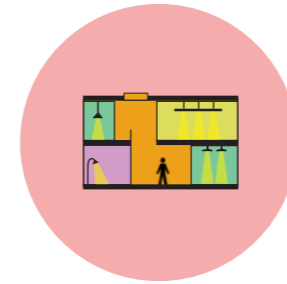
SPECIAL PLACES ON THE CORNERS IN BUILDING



CLEAR VISUAL ACCESS ON ROOMS AND TOILETS



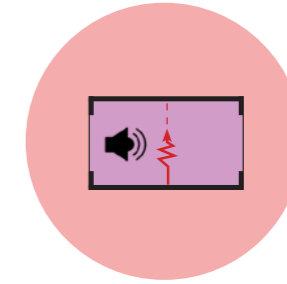
SMALL SCALE BUILDING FOR OVERVIEW AND EASY NAVIGATION



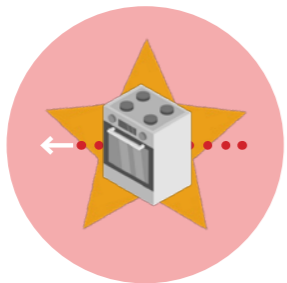
DISTINGUISH ROOMS WITH DIFFERENT CHARACTERISTICS



SCENTS REFER TO FUNCTION LIKE SOAP & BATHROOM



TO REDUCE NOISE, ROOMS CAN BE CLOSED OFF



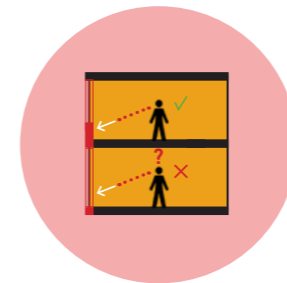
UTILIZE KITCHEN OR DINING ROOM AS REFERENCE POINT



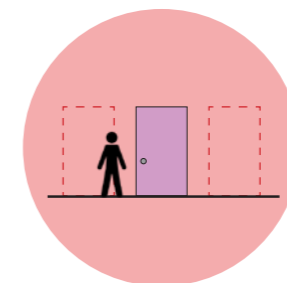
PERSONAL (OWN) FURNITURE



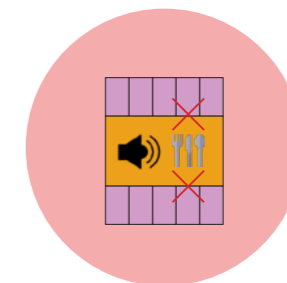
MIRRORED SURFACES MAY CONFUSE PERSON



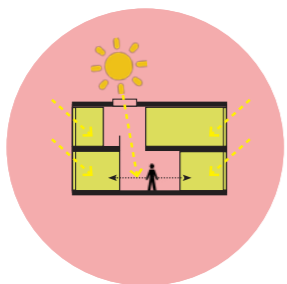
WINDOWS WITH PARAPETS TO EMPHASIZE BOUNDARIES



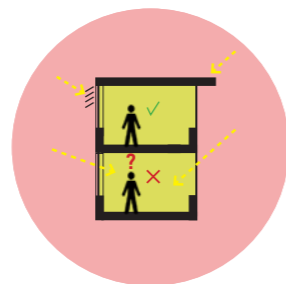
REDUCE AMOUNT OF VISIBLE DOORS IN CORRIDORS



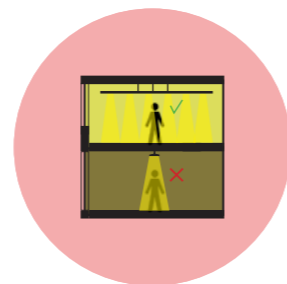
BEDROOMS SHOULDN'T OPEN DIRECTLY INTO DINING ROOM



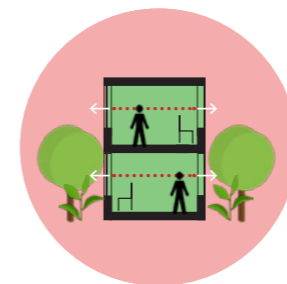
FREELY ACCESSIBLE INTERNAL AREAS WITH STRONG DAYLIGHT



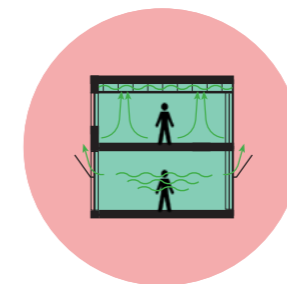
SUNSHADING OR CANOPY AGAINST LOW-ELEVATION SUN



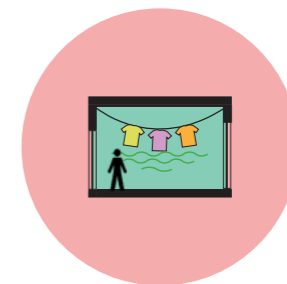
UNIFORM LIGHTING TO AVOID LUMINANCE DIFFERENCES



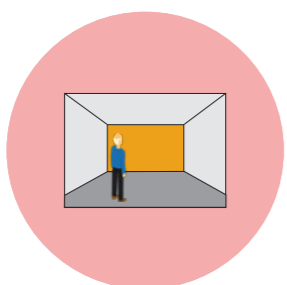
VIEWS OF NATURE + SEATING NEXT TO WINDOWS



PROVIDE VENTILATION FOR BAD SMELLS AND FRESH AIR



SCENTS CAN PROMPT PAST MEMORIES



UTILIZE STRONG COLOR CONTRAST TO DISTINGUISH AREAS



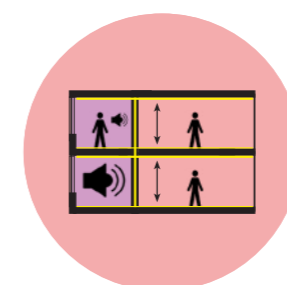
UTILIZE RECOGNIZABLE & HOMELY DESIGN



BIOPHILIC DESIGN WITH PLANTS AND GREEN WALLS



DARK COLORS AND PATTERNS PERCEIVED AS OBSTACLE



ACOUSTIC INSULATION & LOWER CEILINGS FOR LESS RESONANCE



SMALL ROOMS TO RESTRICT AMOUNT OF PEOPLE IN ROOM

UPSCALED PRINCIPLES



MACRO-SCALE PRINCIPLES

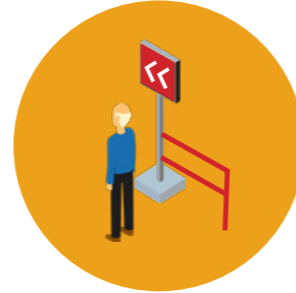
Dementia-friendly neighborhood



DISTINCTIVE PERSONAL ELEMENTS



WAYFINDING ELEMENTS EVERY 30m



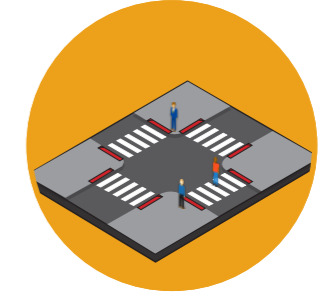
RAILINGS AT SIGNS TO LEAN ON AT INTERSECTIONS



SIGNS ON WALLS ON EYE LEVEL



BIOPHILIC DESIGN AND URBAN GREEN CAN REDUCE STRESS



WIDER CROSSWALKS AND SECURE TRANSITIONS



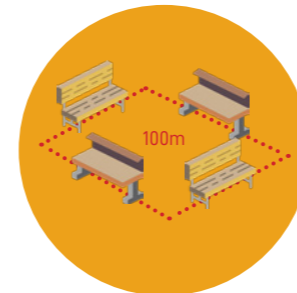
COLORED ROUTES WITH TILES AND SIGNS



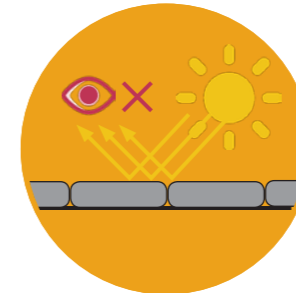
WIDE STREETS AS KEY WALKING ROUTES



CIRCULAR WALKING ROUTES IN NEIGHBORHOOD



BENCHES ON DEMENTIA-FRIENDLY ROUTE EVERY 100m



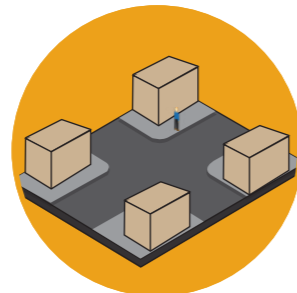
UTILIZE NON REFLECTIVE PAVEMENT



SIGNS OF FACILITIES NEIGHBORHOOD CONTAIN NAME AND ICON



LAMPPOST VARIATIONS FOR WAYFINDING



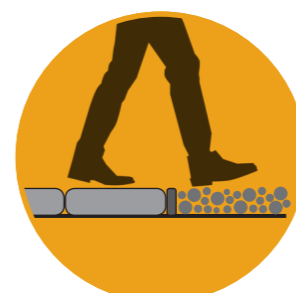
CLEAR COLOR CONTRAST BETWEEN BOUNDARIES



INCLUDE PARKS IN WALKING ROUTES



SCENTED TREES, BUSHES AND FLOWERS AS WAYFINDING CUES



OFFER VARIETY IN PAVEMENT TO MARK BOUNDARIES



WOODEN STREET FURNITURE WITH GREENERY ON ROUTES



UTILIZE GREEN BUFFER ZONES FOR MORE SAFETY & LESS NOISE



UTILIZE SOCIAL PLACES AND PLACES FOR RETREAT.

MACRO-SCALE PRINCIPLES

Routing



CIRCULAR WALKING ROUTES
IN NEIGHBORHOOD



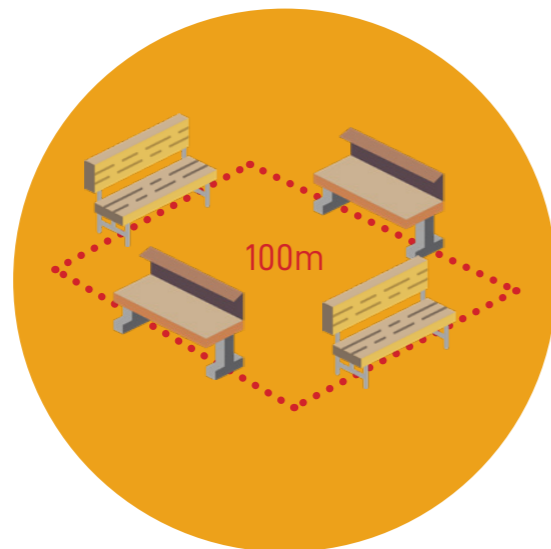
INCLUDE PARKS IN WALKING
ROUTES



WIDE STREETS AS KEY
WALKING ROUTES



BIOPHILIC DESIGN AND URBAN
GREEN CAN REDUCE STRESS



BENCHES ON DEMENTIA-
FRIENDLY ROUTE EVERY 100m



WOODEN STREET FURNITURE
WITH GREENERY ON ROUTES



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PLACES FOR RETREAT.

MACRO-SCALE PRINCIPLES

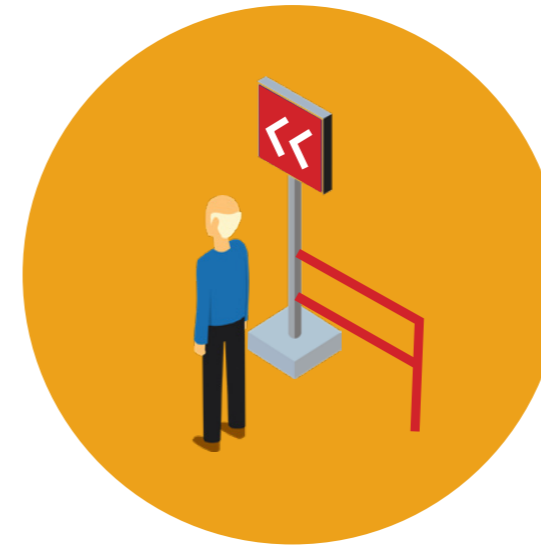
Orientation



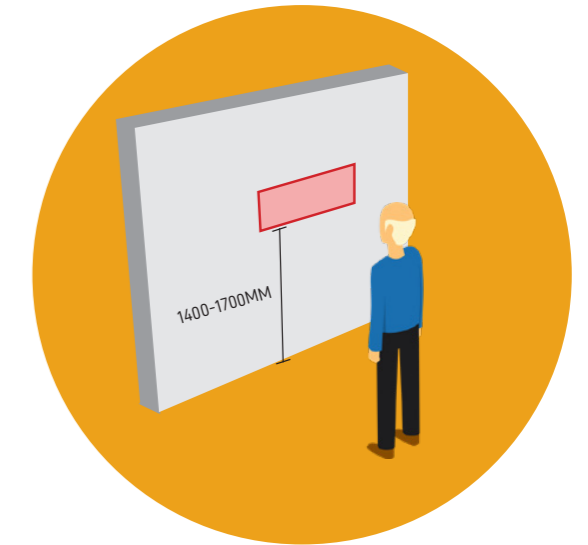
DISTINCTIVE PERSONAL ELEMENTS



WAYFINDING ELEMENTS EVERY 30m



RAILINGS AT SIGNS TO LEAN ON AT INTERSECTIONS



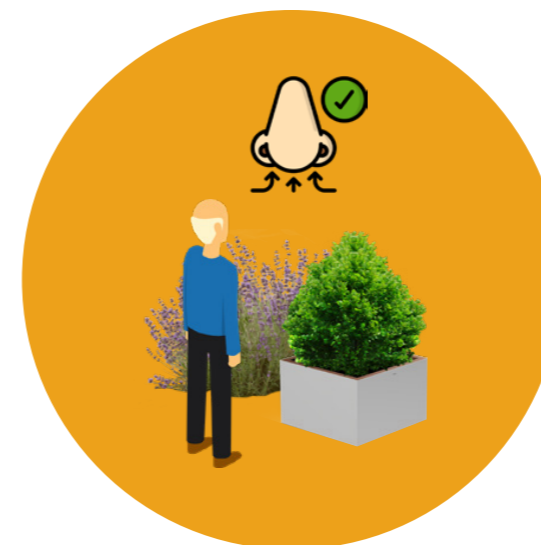
SIGNS ON WALLS ON EYE LEVEL



COLORED ROUTES WITH TILES AND SIGNS



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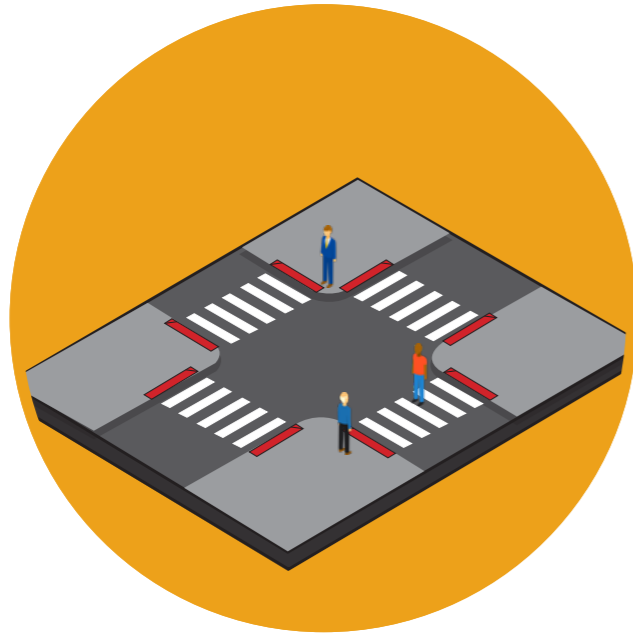
SCENTED TREES, BUSHES AND FLOWERS AS WAYFINDING CUES



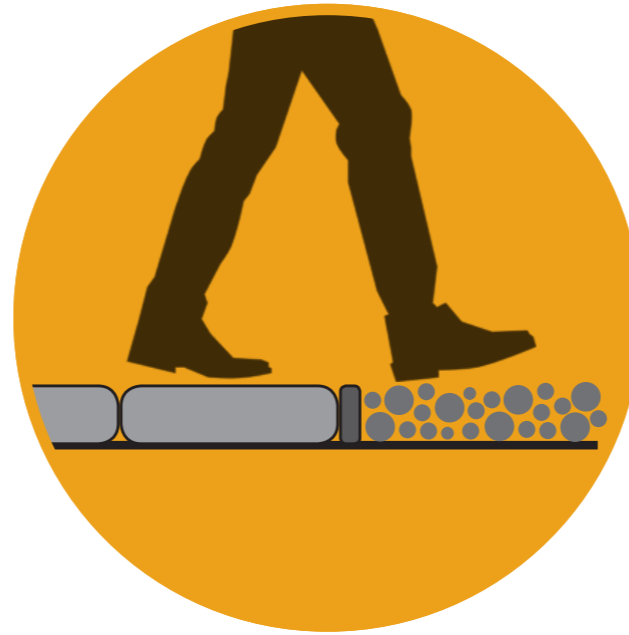
SIGNS OF FACILITIES NEIGHBORHOOD CONTAIN NAME AND ICON

MACRO-SCALE PRINCIPLES

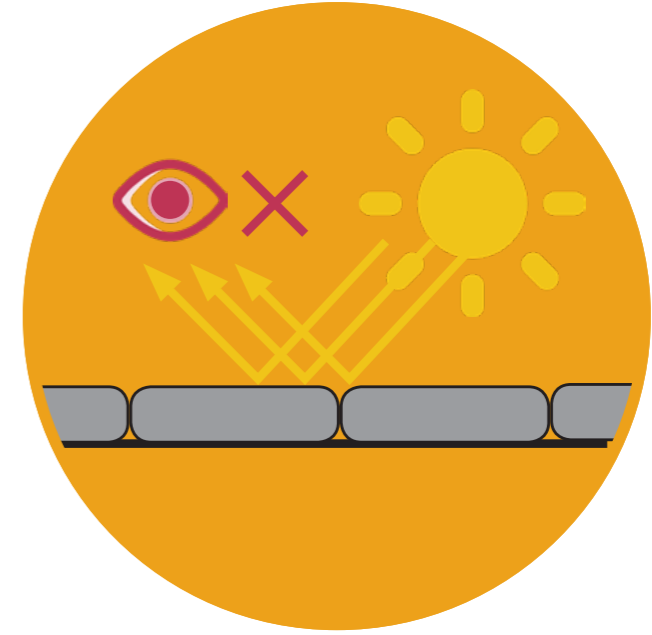
Safety



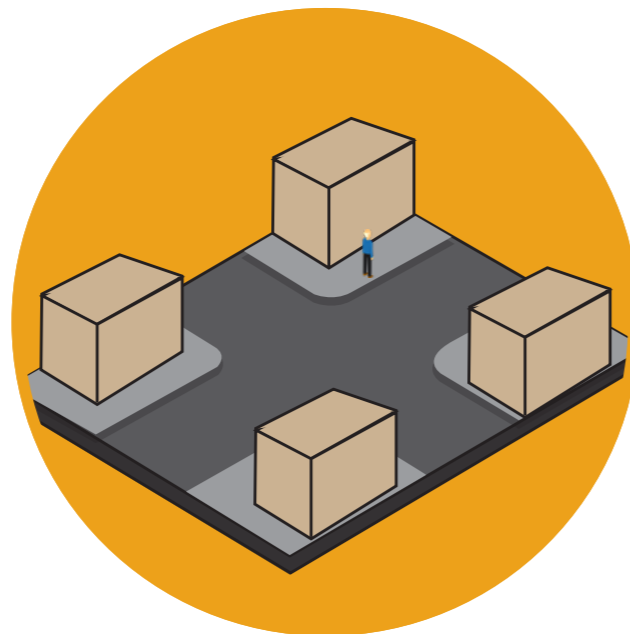
WIDER CROSSWALKS AND
SECURE TRANSITIONS



OFFER VARIETY IN PAVEMENT TO
MARK BOUNDARIES



UTILIZE NON REFLECTIVE
PAVEMENT



CLEAR COLOR CONTRAST
BETWEEN BOUNDARIES



UTILIZE GREEN BUFFER ZONES
FOR MORE SAFETY & LESS NOISE

CONCEPT

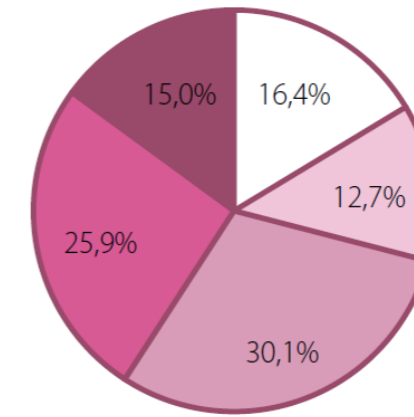
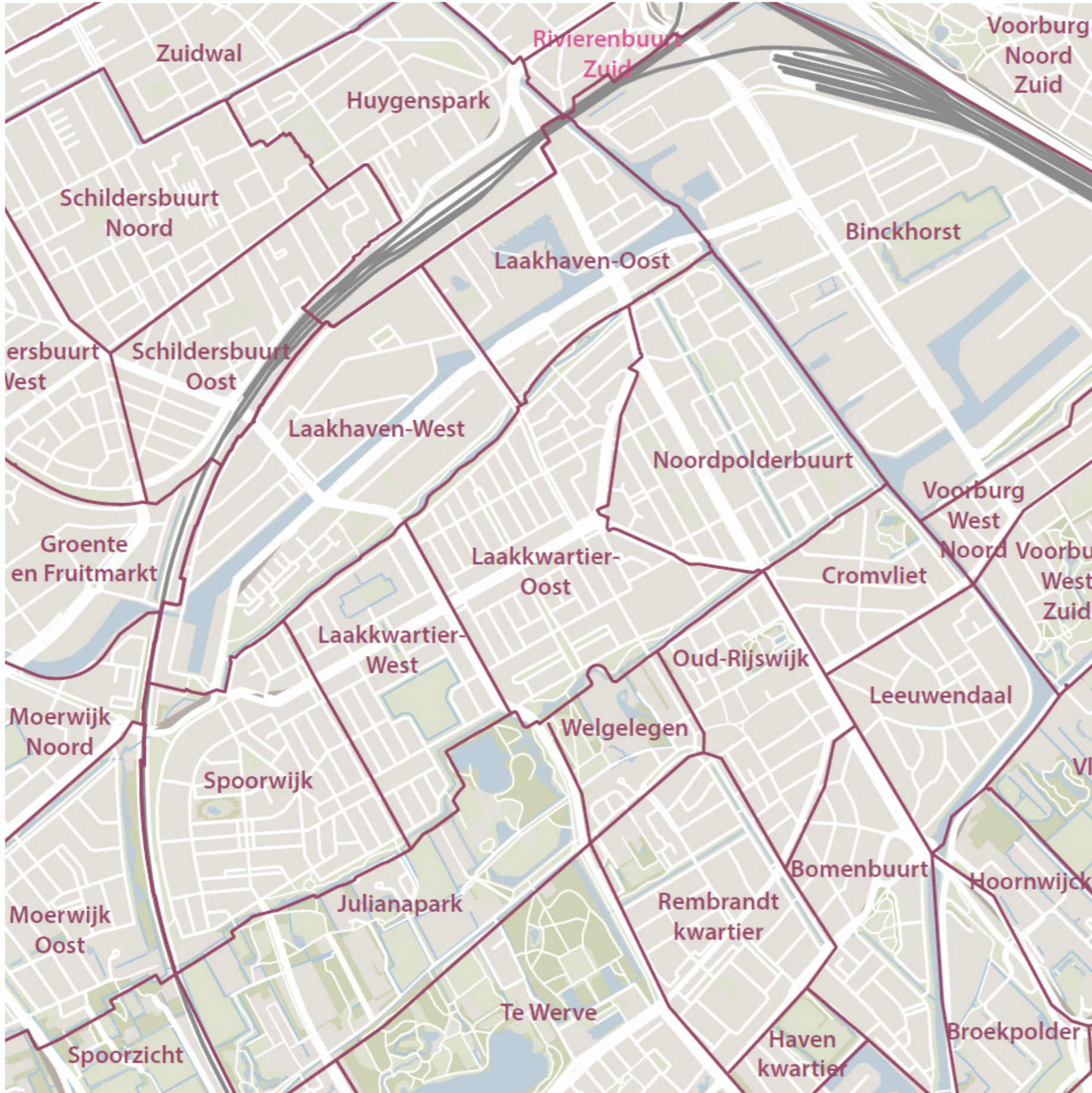


LAAKKWARTIER

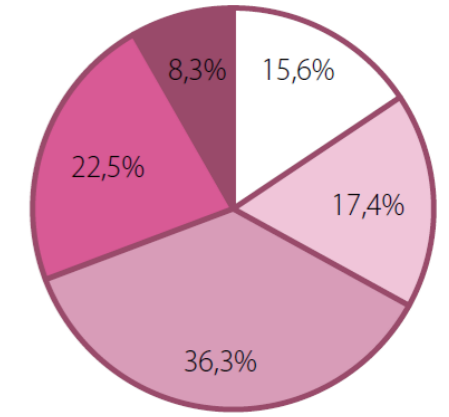


**EXISTING NEIGHBORHOOD
URBAN CONTEXT
VARIETY CULTURES,
TYPOLOGIES &
FUNCTIONS**

LAAKKWARTIER



The Hague average



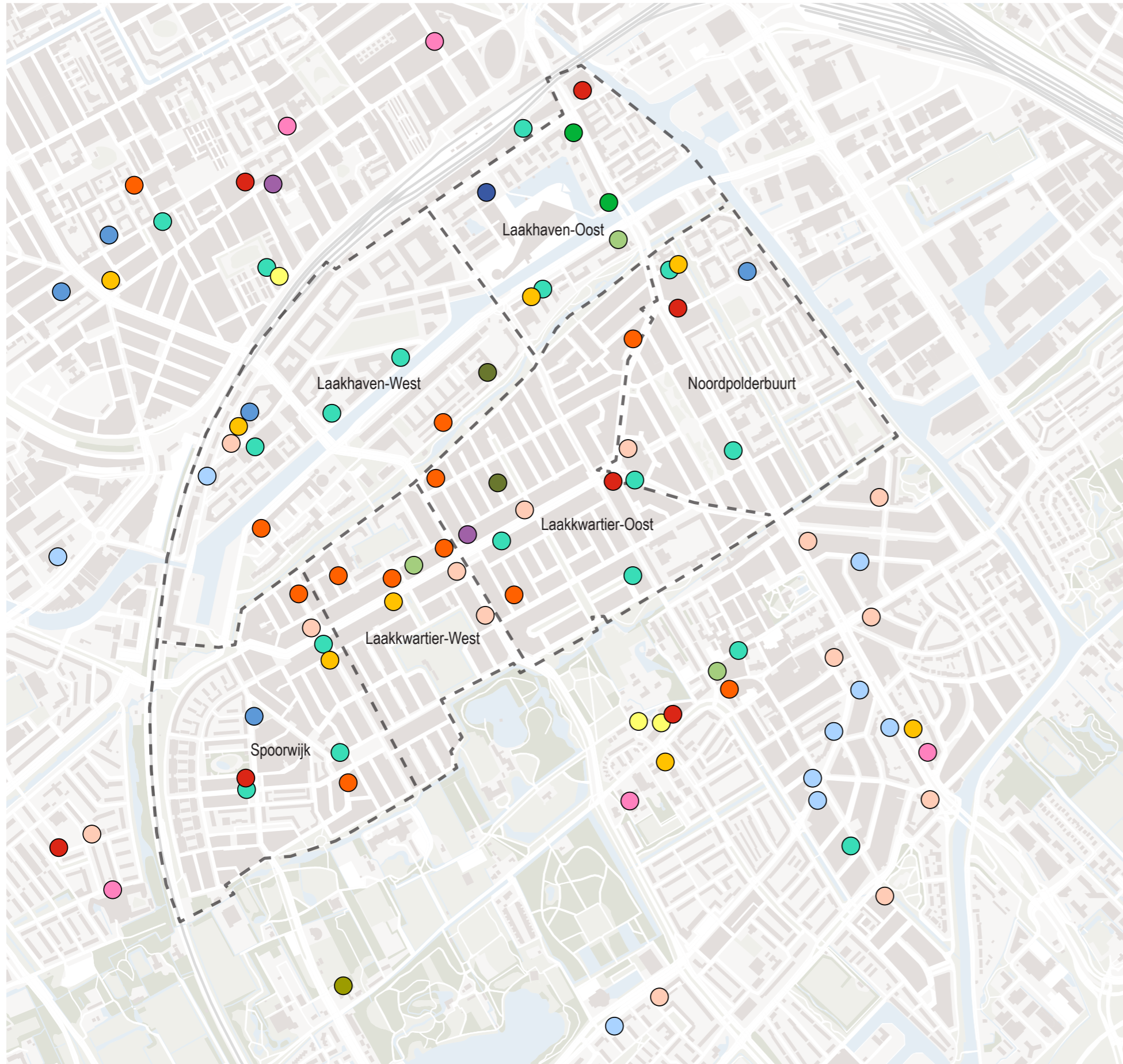
Laakkwartier Spoorwijk

- 65+ years old
- 45-65 years old
- 25-45 years old

- 15-25 years old
- 0-15 years old

Laakkwartier
44,265 residents
 3670 elderly

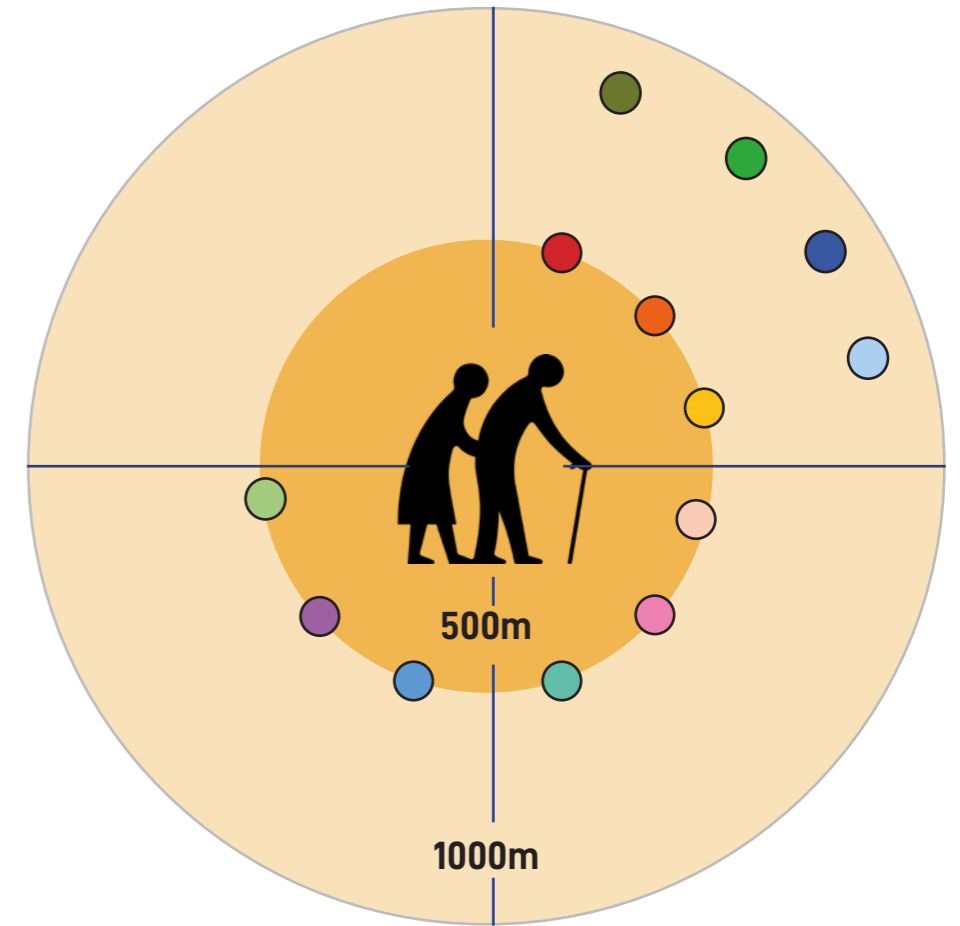
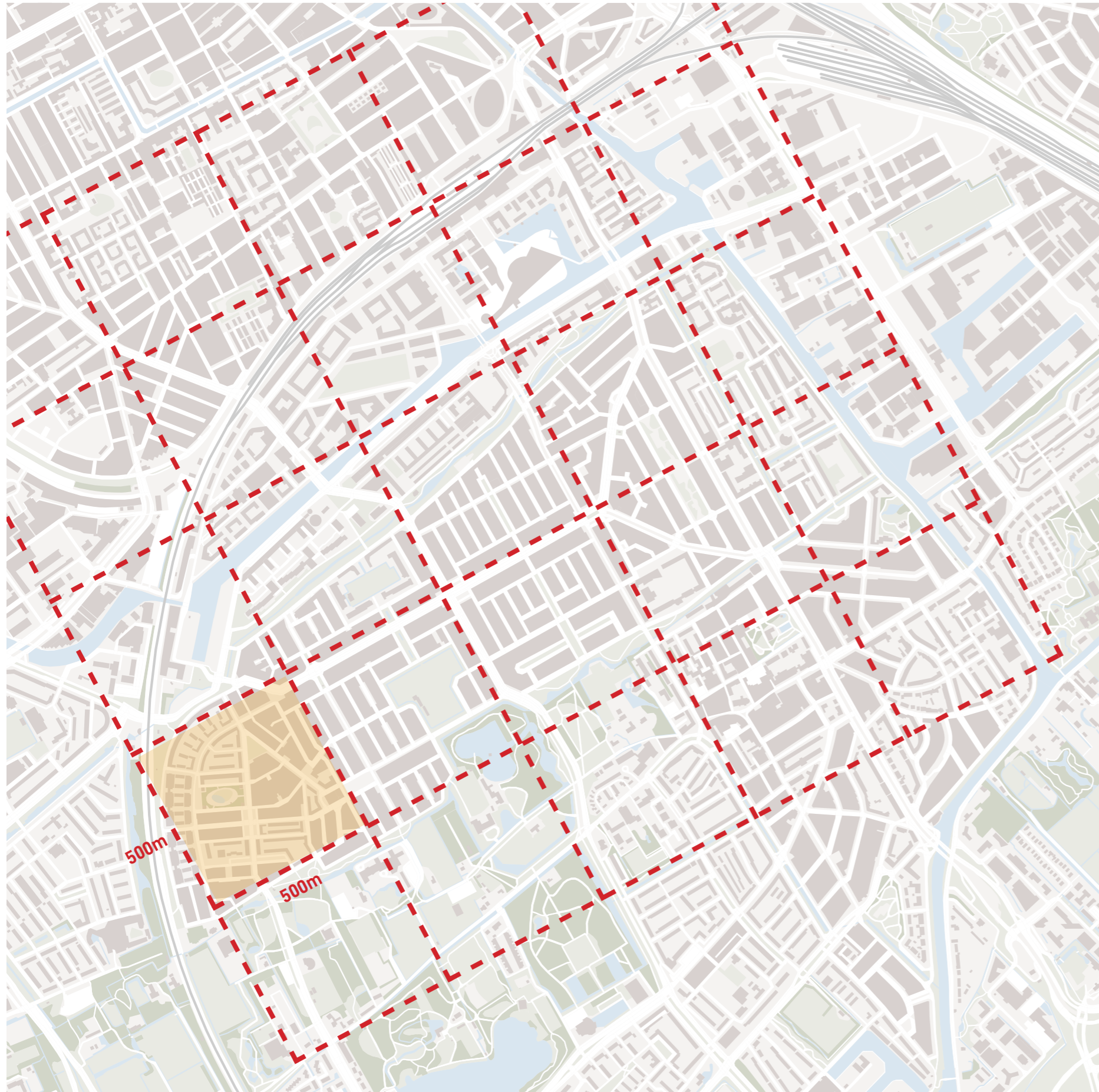
MEDICAL MAP LAAKKWARTIER



- Pharmacy
- Home Care (ZZP caregiver which visits homes for care)
- General practitioner (GP, Huisarts)
- Nursing home
- Dentist
- Medical Center
- Specialized physical clinic (eye & dermatology)
- Alternative care (listening therapy & Ayurveda)
- Medical child daycare
- Obstetrician
- Physio
- Psychotherapy
- Haags ontmoeten
- Parnassia
- Community Center

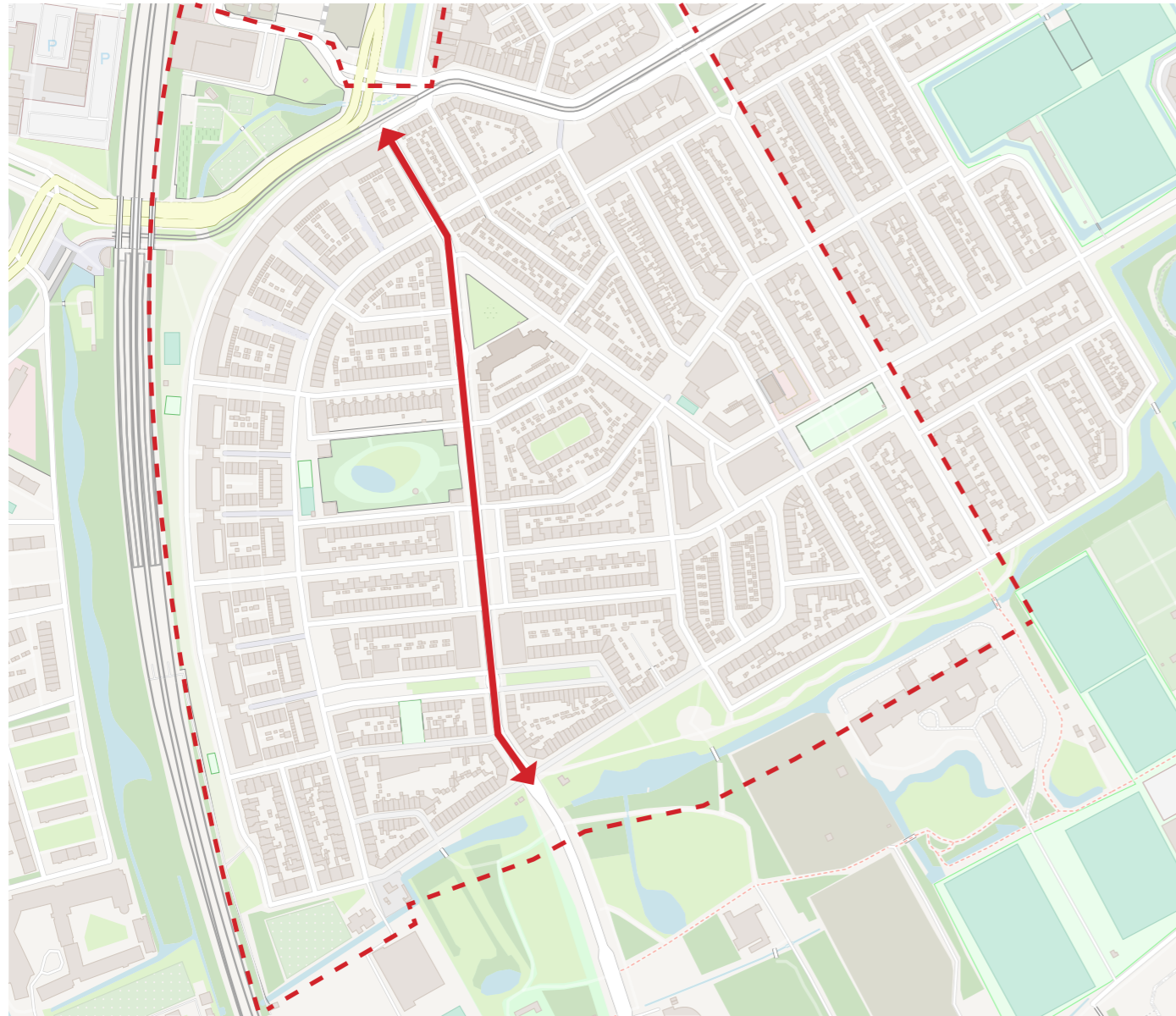
Spoorwijk	1x Pharmacy, 3x Physio, 1x Dentist 1x General practitioner, 1x Haags ontmoeten 2x Home Care
Laakhaven-Oost	2x Specialized physical clinic, 1x Pharmacy, 1x Physio, 1x Obstetrician, 1x Parnassia 1x General practitioner
Laakhaven-West	3x Physio, 1x Haags ontmoeten, 1x Dentist 1x General practitioner, 1x Psychotherapy 2x Home Care, 1x Alternative Care
Noordpolderbuurt	1x General practitioner, 3x Physio, 1x Dentist 1x Pharmacy, 1x Haags ontmoeten,
Laakkwartier-Oost	1x Dentist, 1x Pharmacy, 2x Physio, 3x Home Care, 1x Community Center, 1x Alternative care
Laakkwartier-West	1x Obstetrician, 3x Home Care, 2x Dentist 1x General practitioner,

NEIGHBORHOOD STRATEGY | AGING IN PLACE | SPOORWIJK

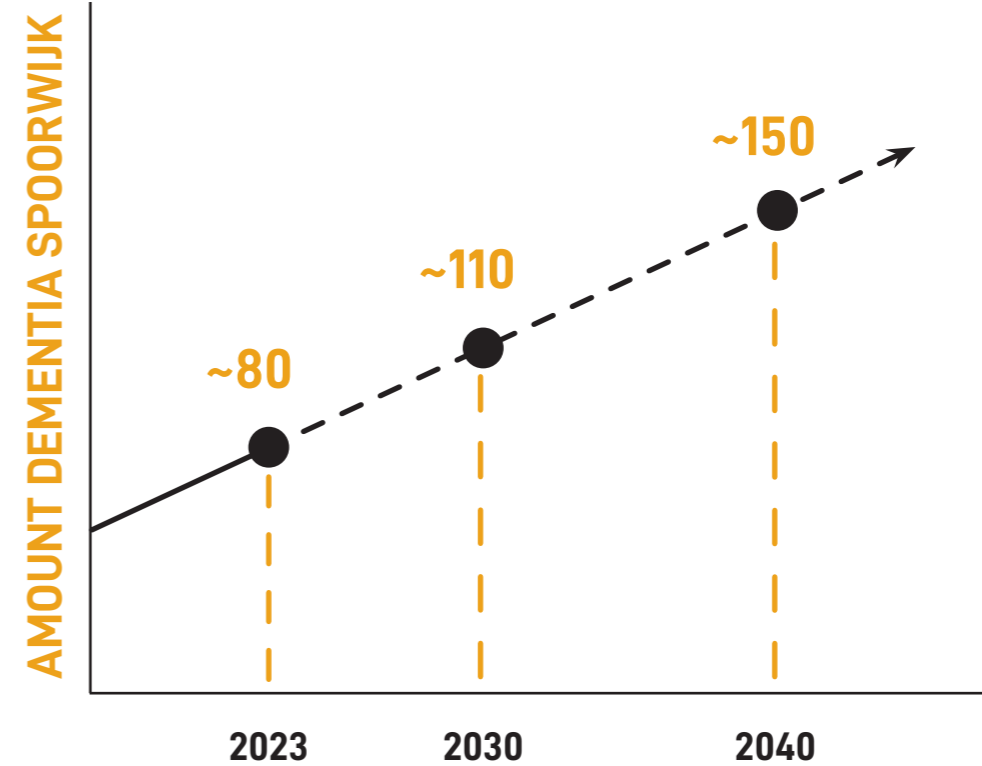


- Pharmacy
- Home Care (ZZP caregiver which visits homes for care)
- General practitioner (GP, Huisarts)
- Nursing home
- Dentist
- Medical Center
- Restaurant
- Alternative care (listening therapy & Ayurveda)
- Medical child daycare
- Supermarket
- Physio
- Psychotherapy
- Haags ontmoeten
- Parnassia
- Community Center

SPOORWIJK

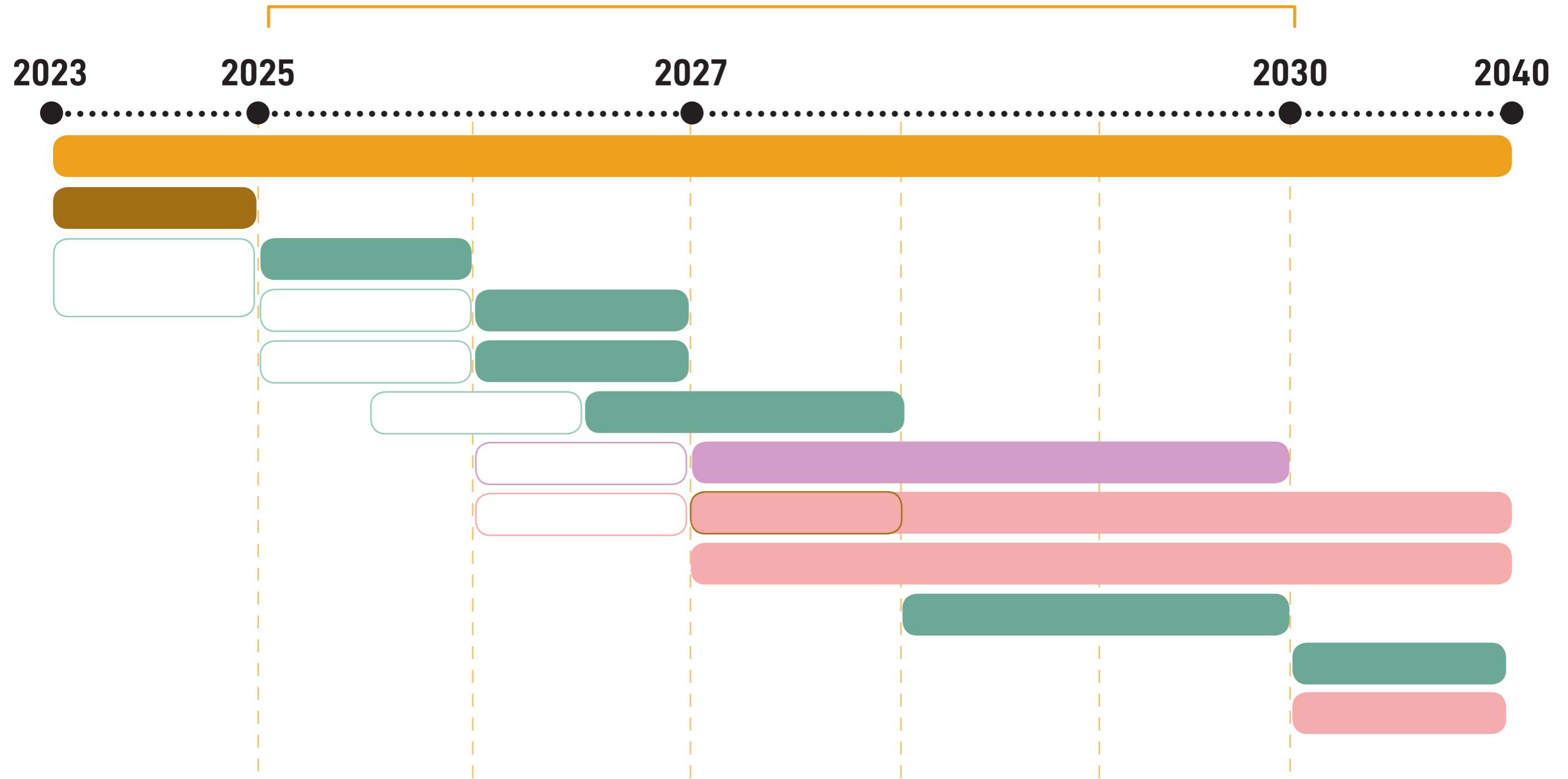


RESIDENTIAL NEIGHBORHOOD
VARIETY IN TYPOLOGIES
DISTINCTION NEW & OLD
NEXT TO MOERWIJK STATION
1 MAIN ROAD
GREEN AREAS



GOAL
2025 - 2040

DEMENTIA-FRIENDLY SPOORWIJK IN 5 YEARS



NEIGHBORHOOD STRATEGY

AGING IN PLACE



Making the existing home and neighborhood dementia-friendly and adding care modules.



+



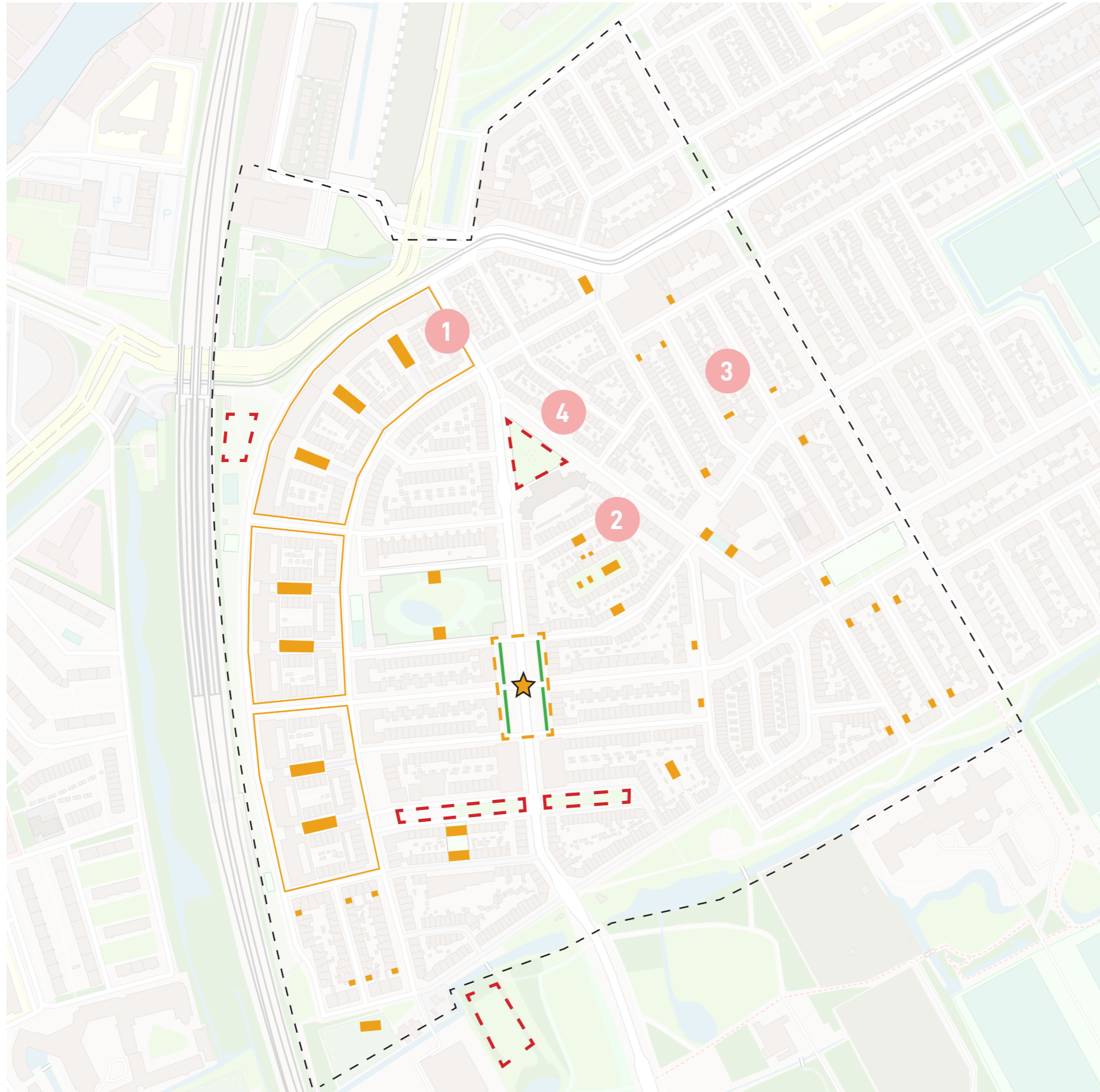
Small scale neighborhood facilities like a dementia daycare and a dementia knowledge hub.



Dementia hospice (palliative) when someone can't live independent anymore and needs medical care. (with place for family to stay)



DEMENTIA-FRIENDLY SPOORWIJK | OPPORTUNITIES



DWELLING EXAMPLE

Nursing Station - Row houses

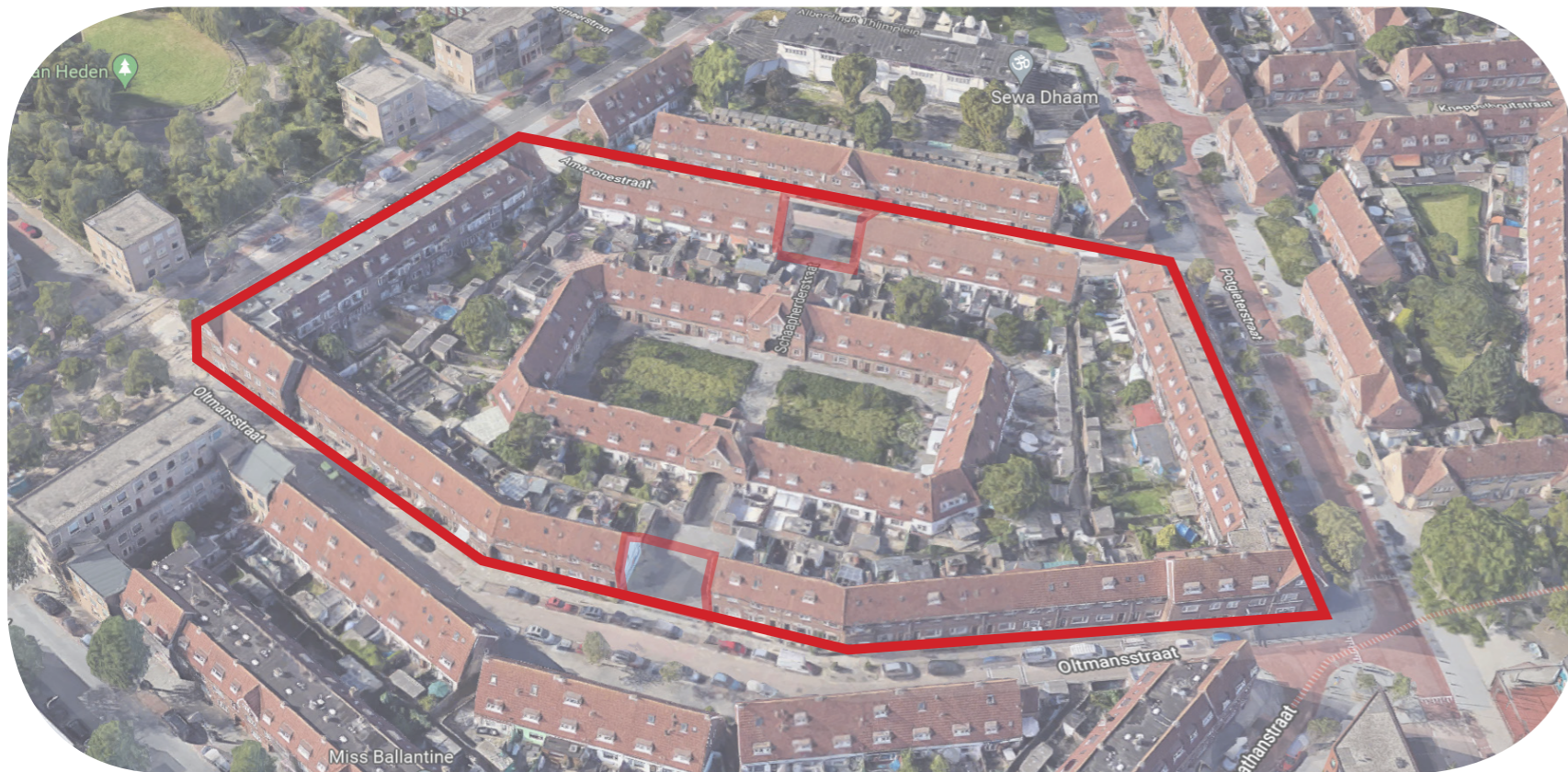
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Care Unit

- + 24/7 care on demand
- + Visits homes
- + Eases the burden on formal caregivers
- + Communal functions

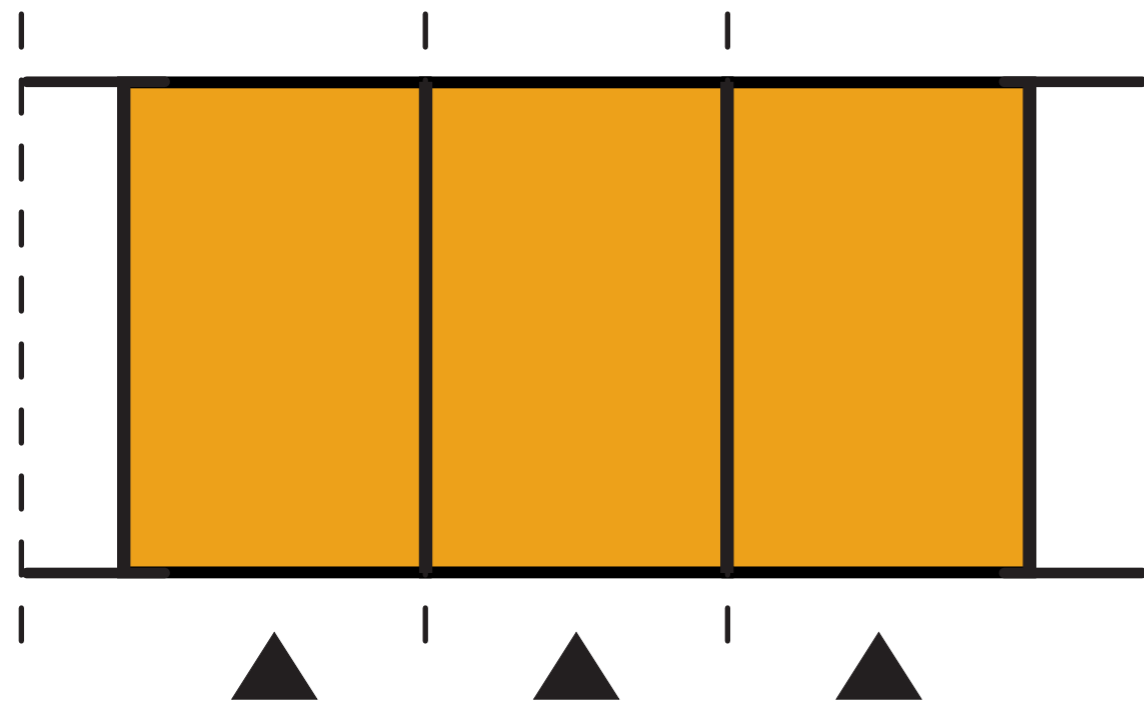
SOURCE: ARCHDAILY



DWELLING EXAMPLE

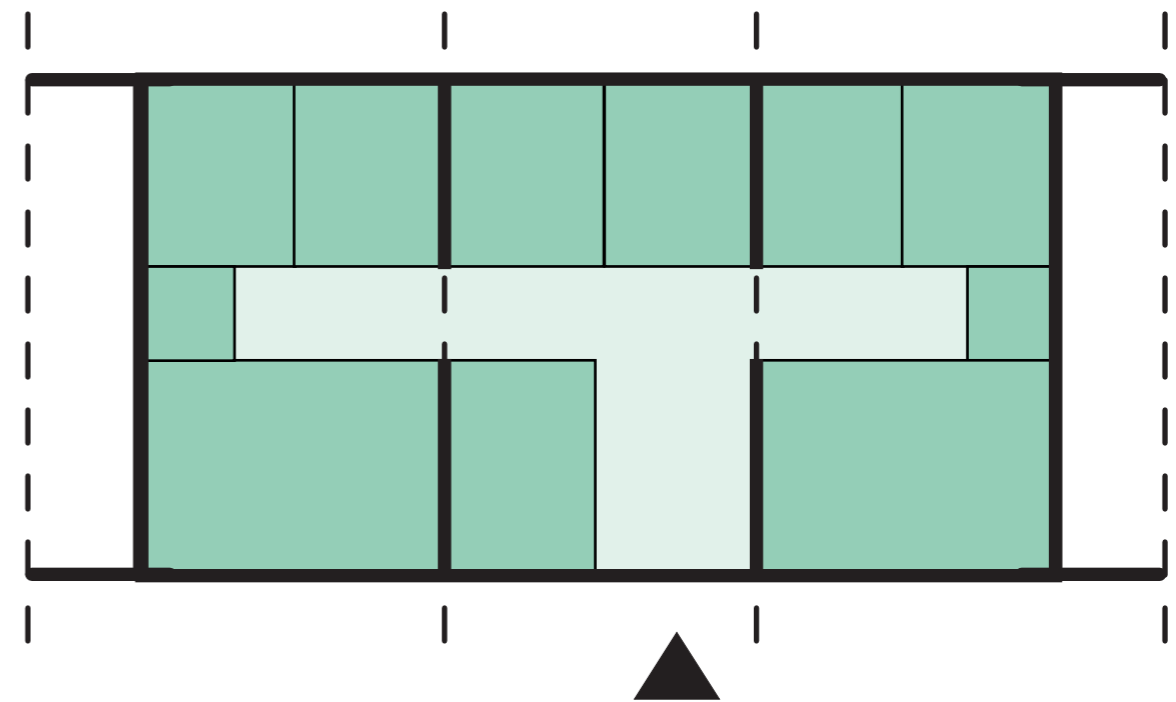
Row House - Group Homes

INDIVIDUAL/INDEPENDENT LIVING



FIRST & SECOND STAGE OF DEMENTIA

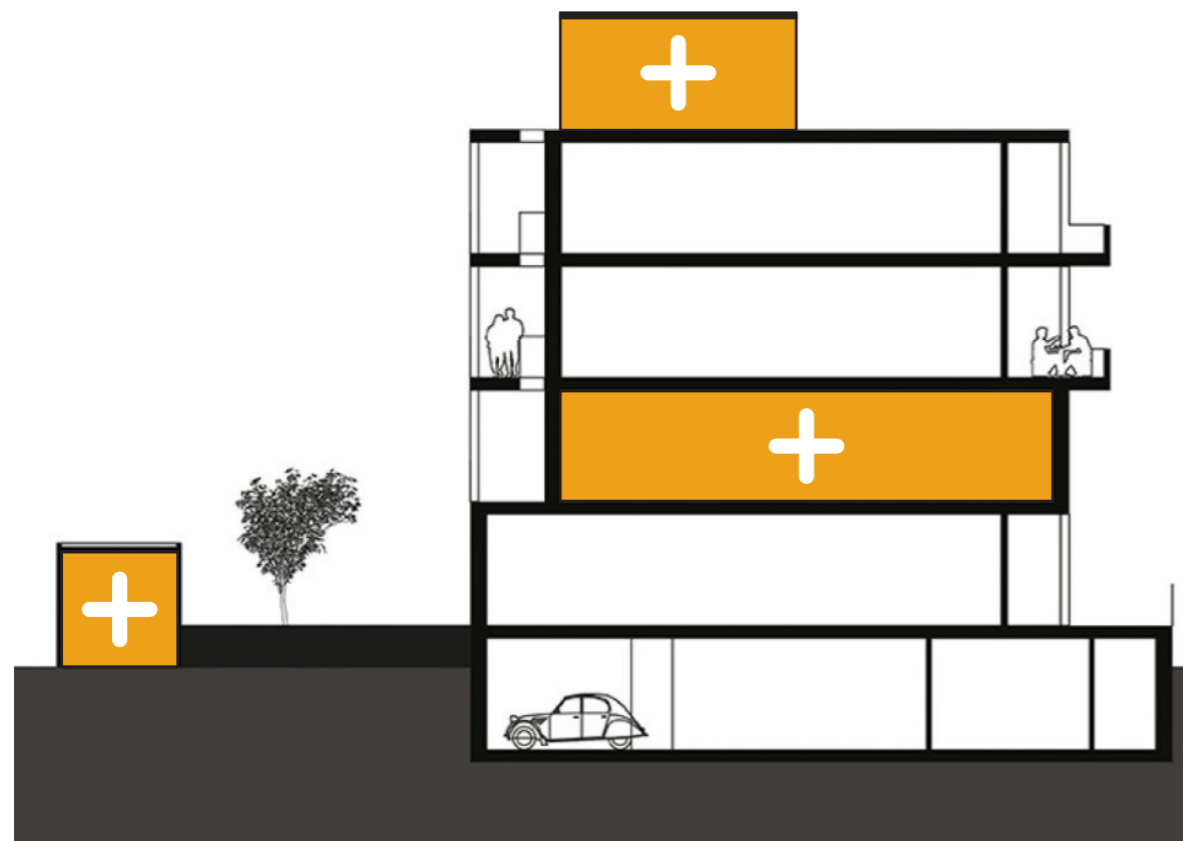
ASSISTED LIVING GROUP HOMES



SECOND OR THIRD STAGE OF DEMENTIA

DWELLING EXAMPLE

Gallery Flat



SECTION AA GALLERY FLAT
24/7 NURSING STATION EMPTY APARTMENT

- + Direct connection with apartments
- Housing shortage, loss of worth 1 house

SHORT TERM



STANDALONE NURSING STATION
24/7 CARE

- + Cheaper alternative
- + Versatile and placed where needed
- + Operates in a larger radius
- No direct connection

LONG TERM

NURSING STATIONS

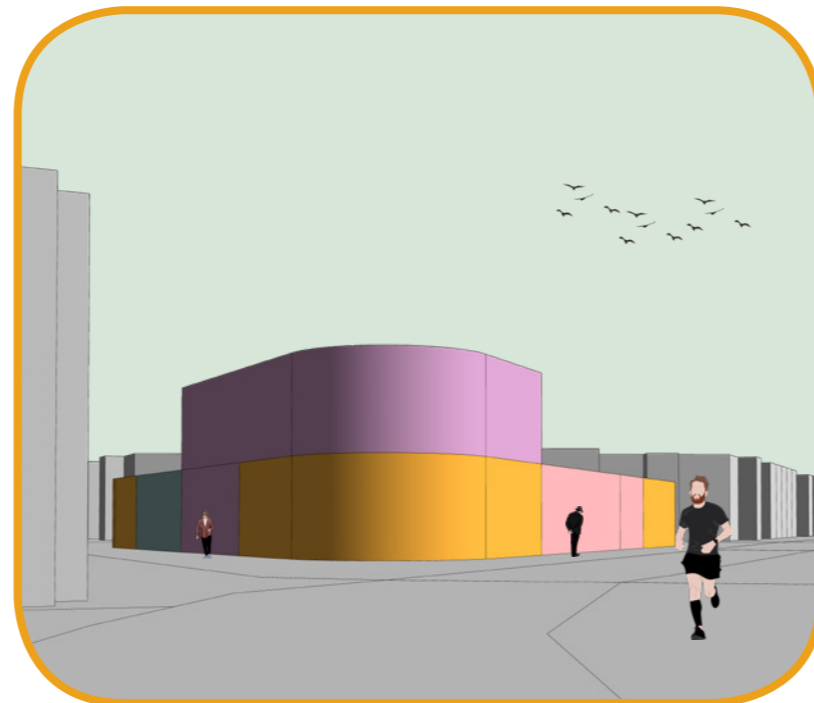
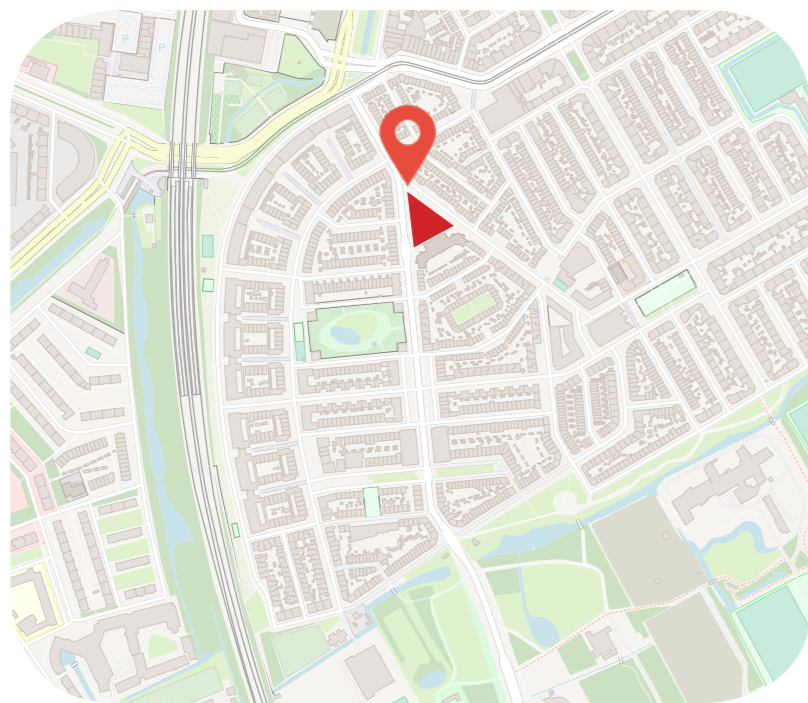
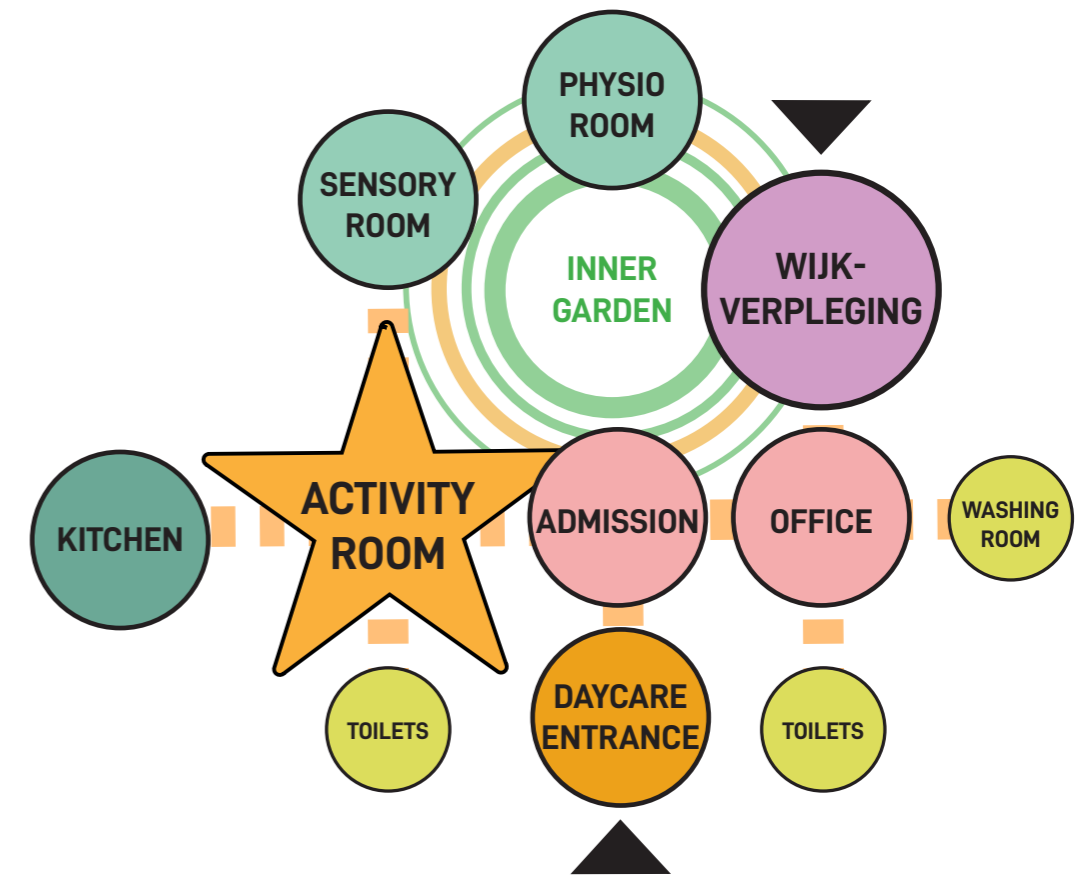
Standalone



CARE MODULE
SMALL SCALED
DISTINCT & RECOGNIZABLE
ARCHITECTURE

DAYCARE - MEDICAL

Mass Study Example



DAYCARE

- + Customized day care, routine, more peace and less confusion
- + Eases the burden on carers
- + Postpones moving to nursing home
- Without informal caregiver not feasible to live independently

DAYCARE - 2040

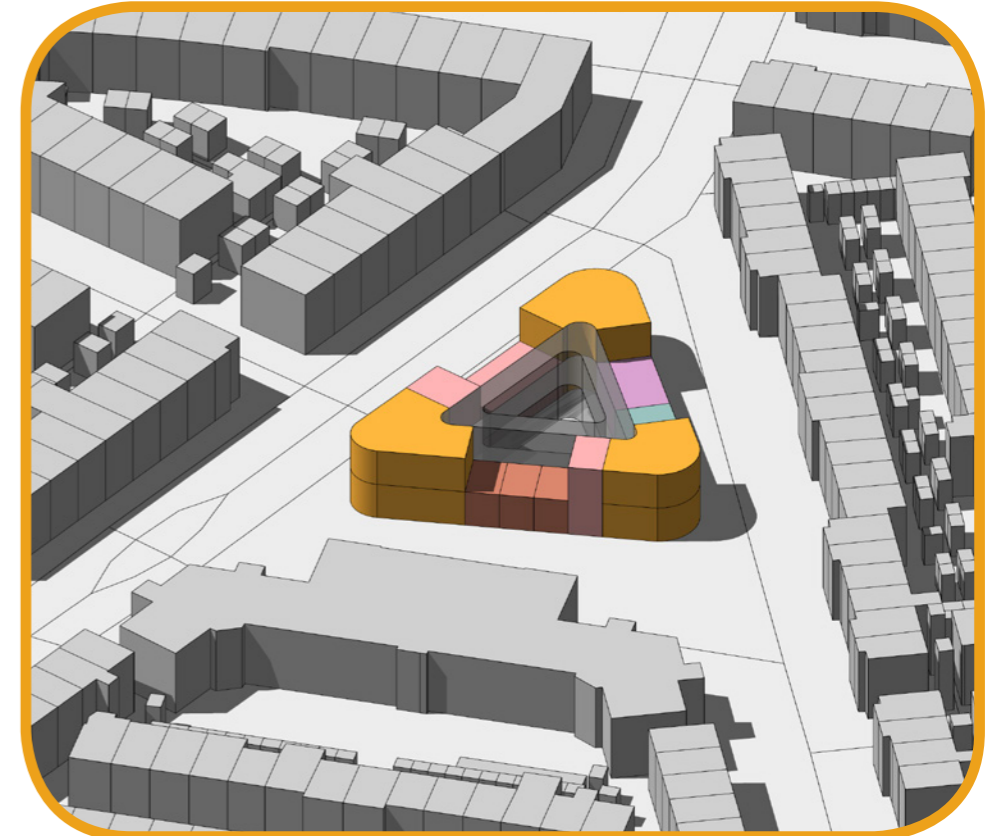
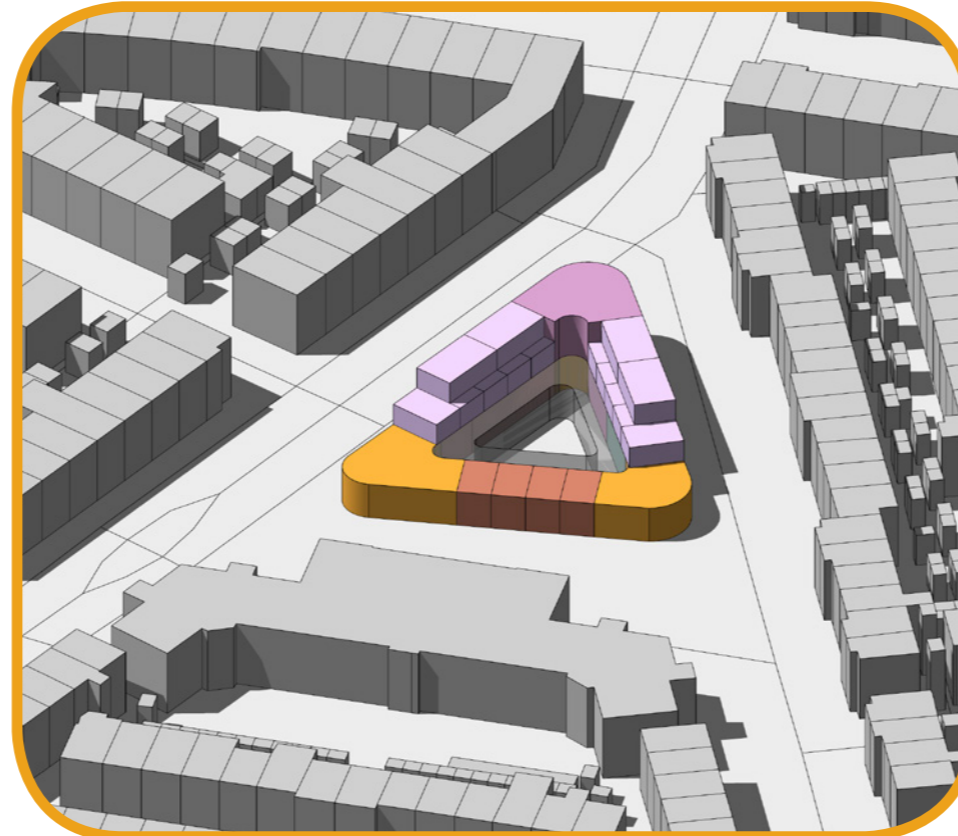
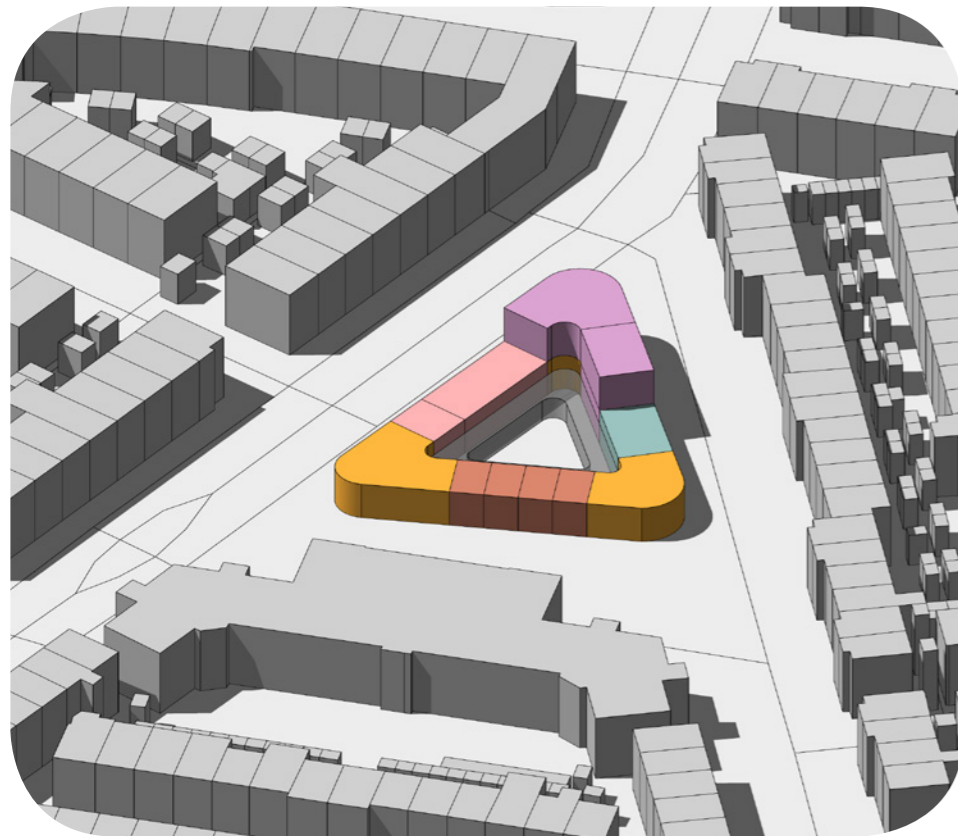
Mass Study Expansion

2025

2040

OPTIONS BASED ON DEMAND

2040



2025: DAYCARE + THUISZORG

ROOMS FOR THERAPY
3 GROUP ROOMS
12 PEOPLE PER GROUP

2040: APARTMENTS EXPANSION

24/7 CARE APARTMENTS
ASSISTED LIVING
12 APARTMENTS

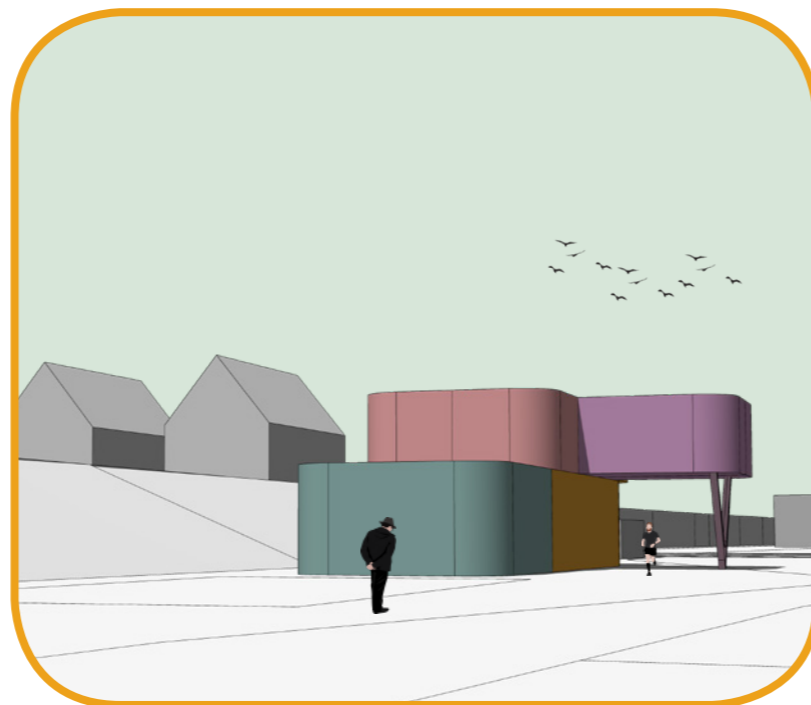
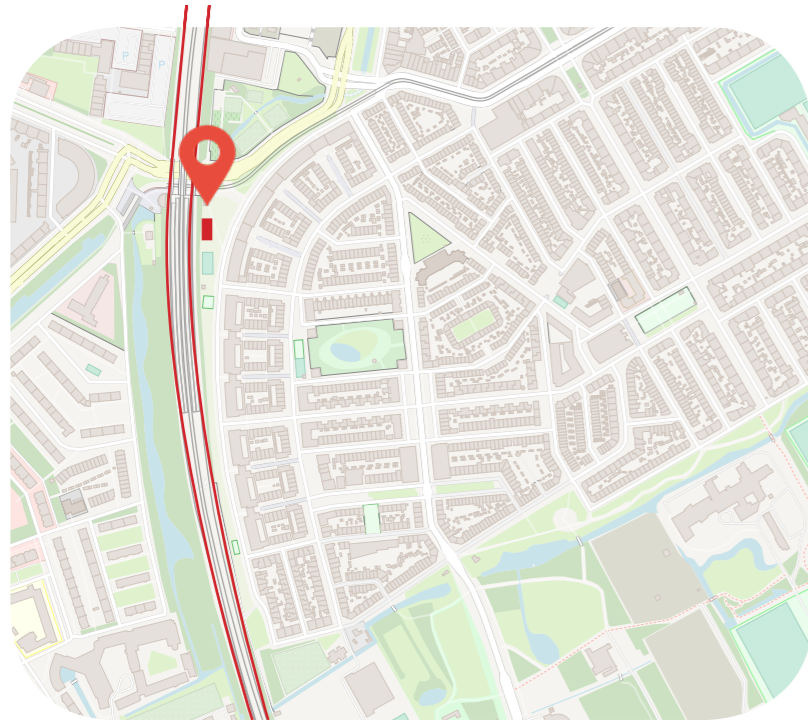
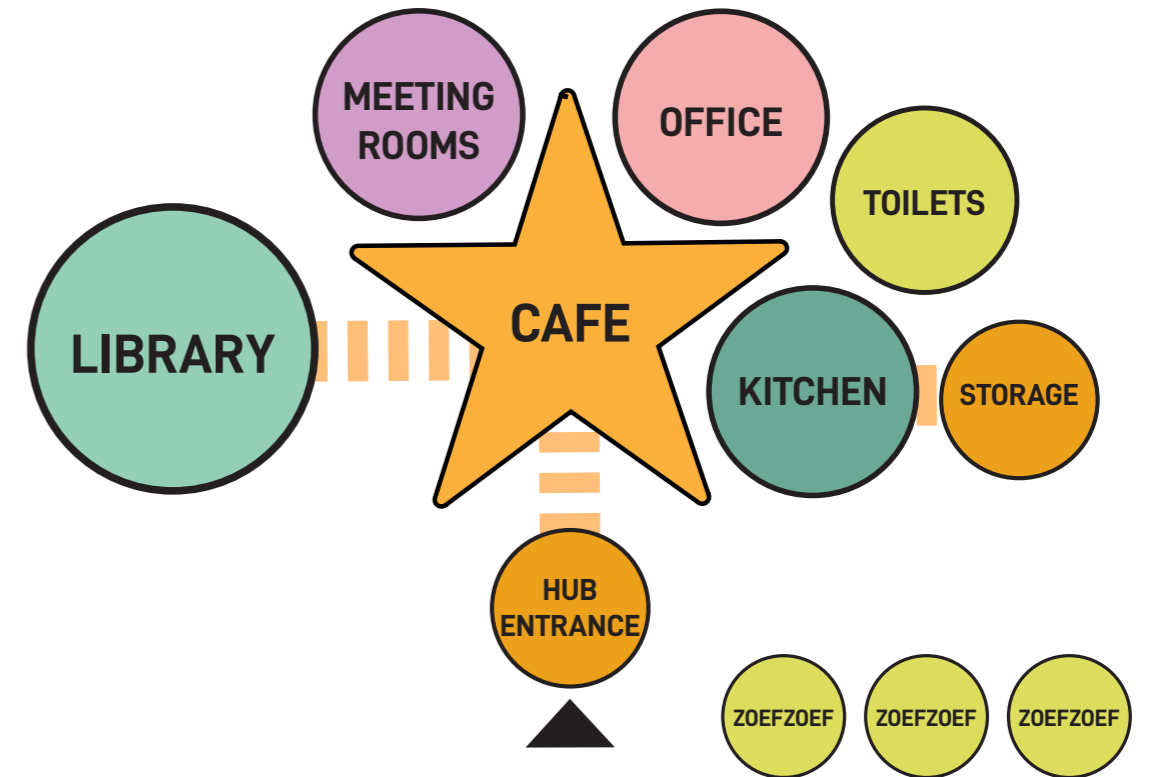
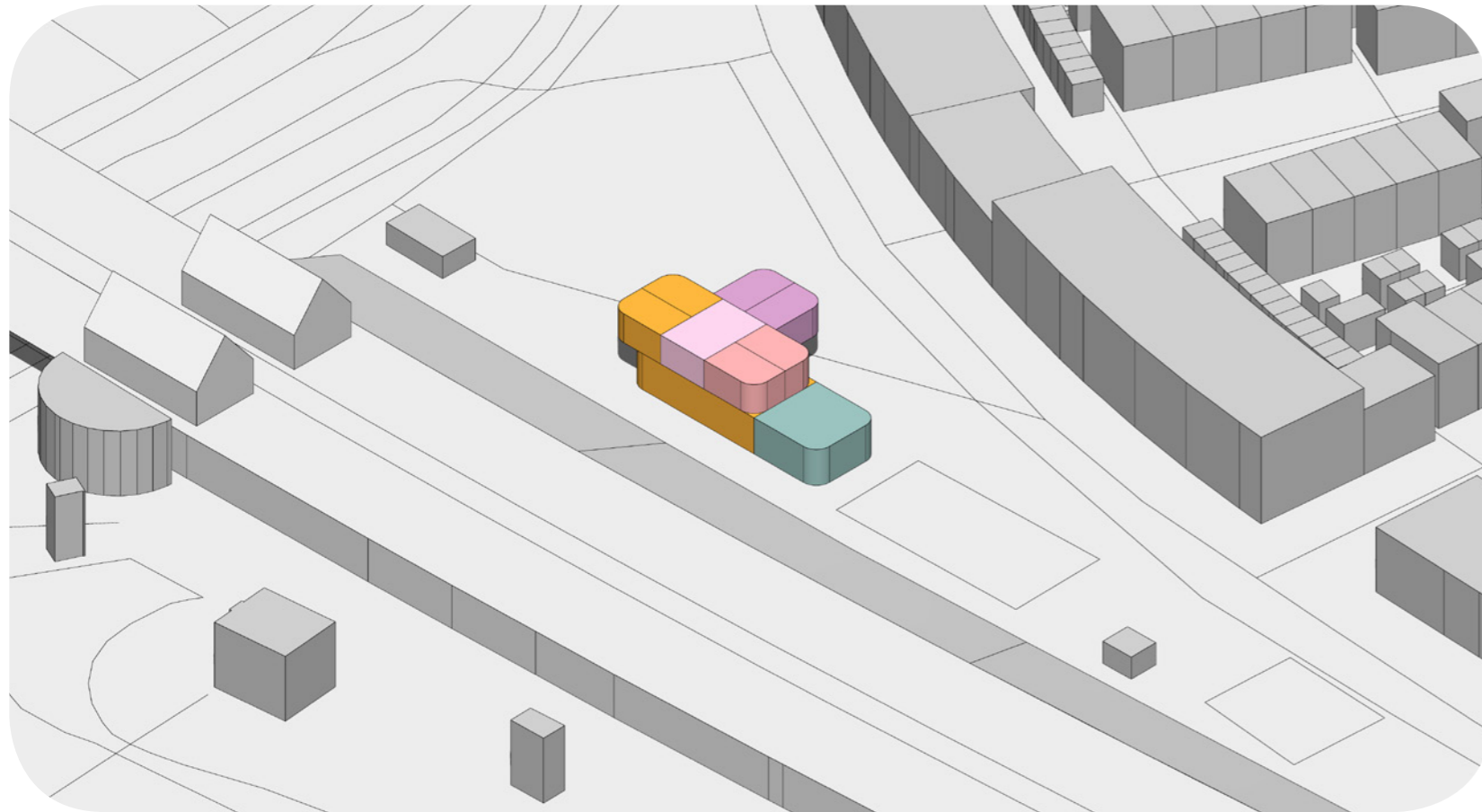
← OR →

2040: ACTIVITY ROOM EXPANSION

3 EXTRA GROUP ROOMS
6 GROUP ROOMS
12 PEOPLE PER GROUP

DEMENTIA HUB - SOCIAL

Mass Study Example

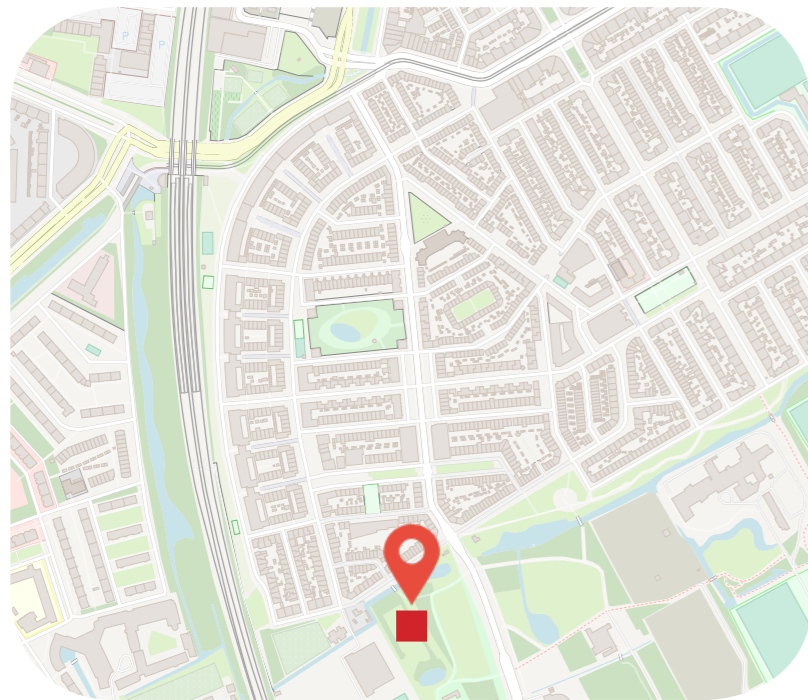
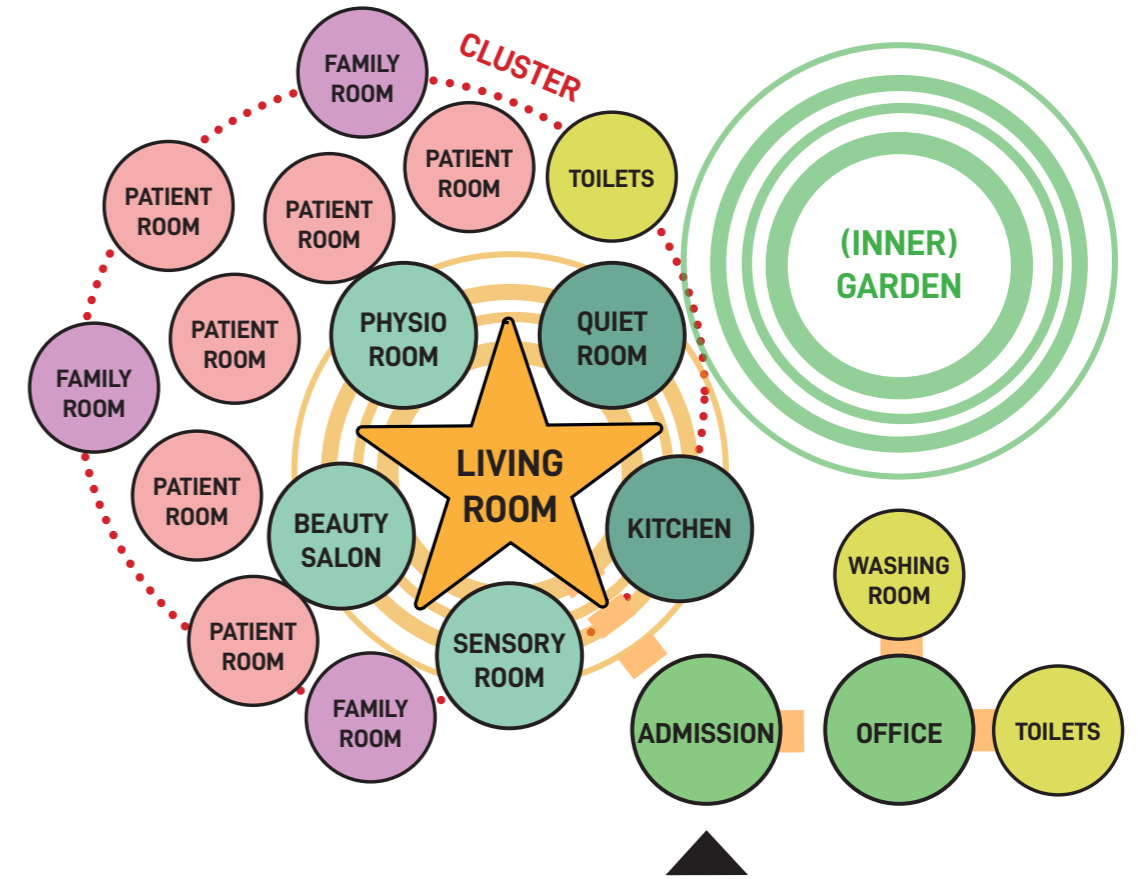


DEMENTIA HUB

- + Next to station Moerwijk
- + Connects Moerwijk & Spoorwijk
- + Info and social hub for caregivers, person with dementia & neighborhood
- + Offers electric transportation (ZoefZoef)

DEMENTIA HOSPICE - MEDICAL

Mass Study Example



HOSPICE
for 12 people

- + Palliative care
- + Specialized care & support
- + Place for family
- + Safe and calm environment

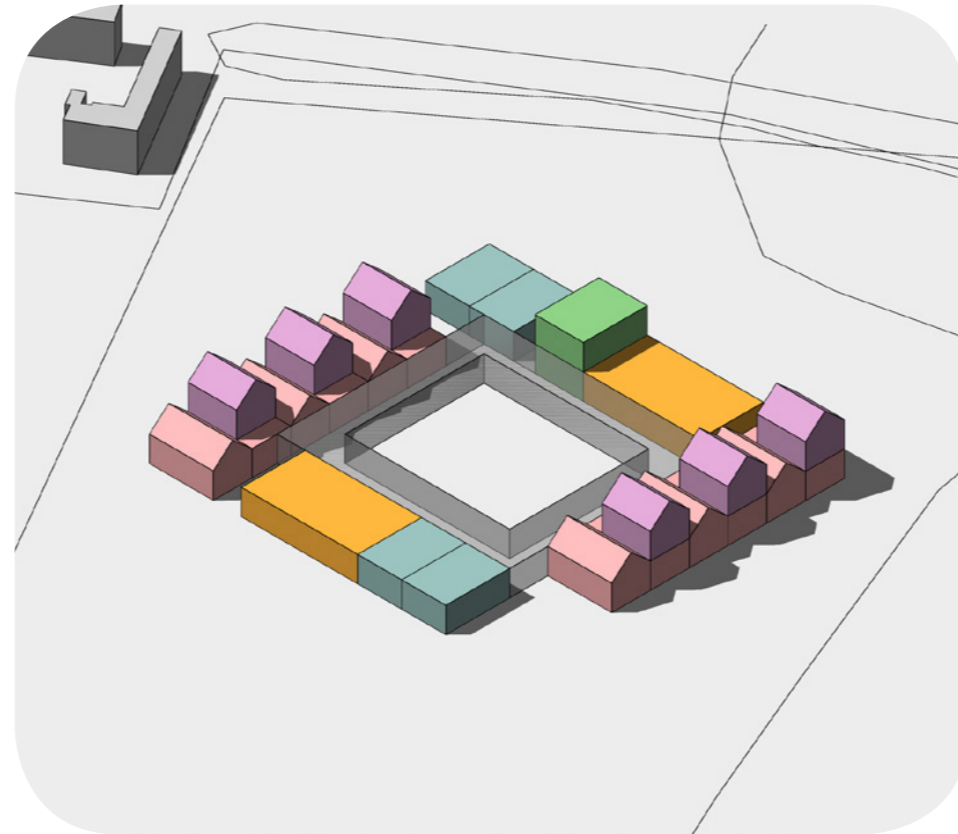
DEMENTIA HOSPICE - 2040

Mass Study Expansion

2030 OPTIONS BASED ON DEMAND 2030 OPTIONS BASED ON DEMAND 2040

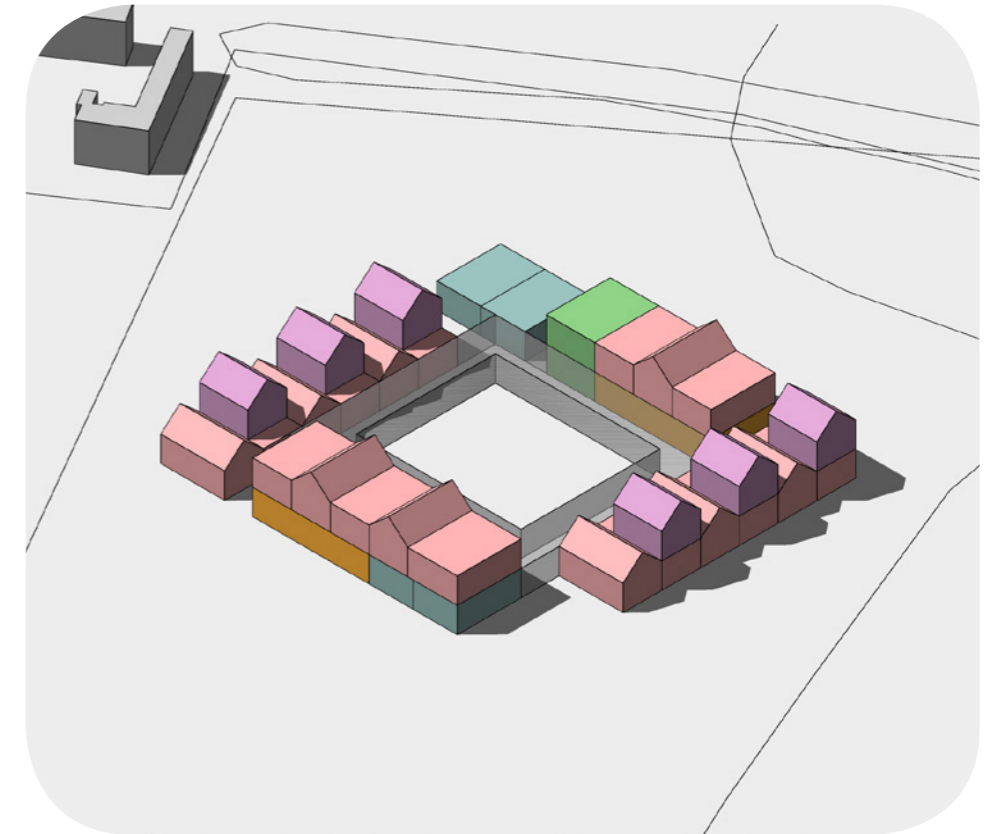


2030: HOSPICE
6 PATIENT ROOMS
3 FAMILY ROOMS
2 LIVING ROOMS
THERAPY ROOMS



2030: HOSPICE
12 PATIENT ROOMS
6 FAMILY ROOMS
2 LIVING ROOMS
THERAPY ROOMS

← OR →

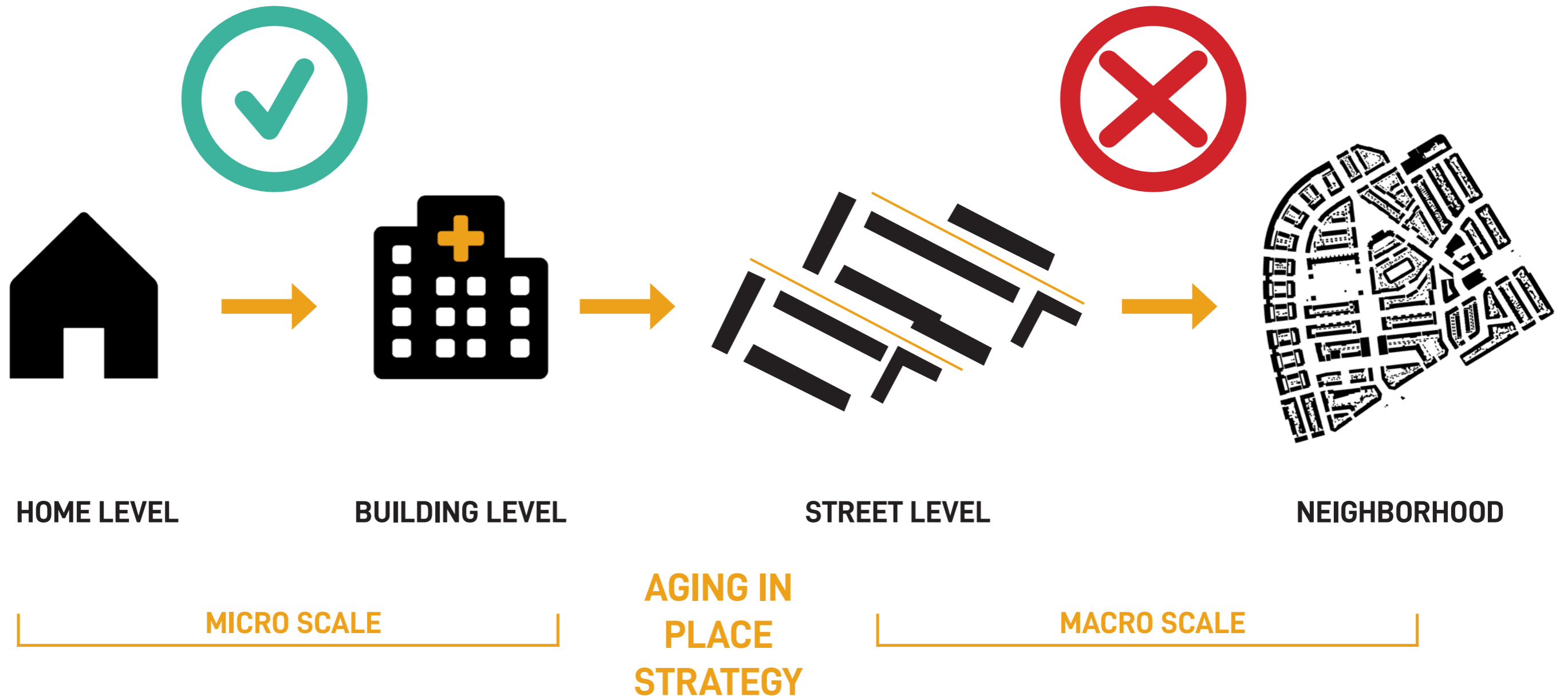


2040: HOSPICE
20 PATIENT ROOMS
6 FAMILY ROOMS
3 LIVING ROOMS
THERAPY ROOMS

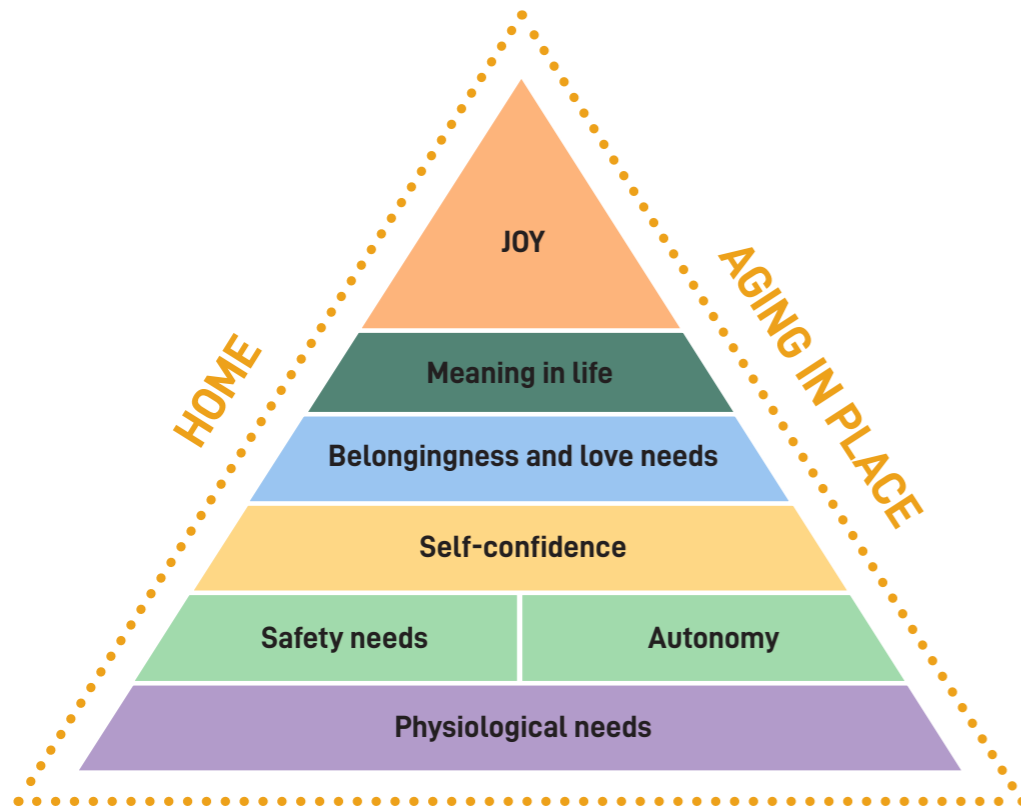
**SO, IS THIS
ENOUGH TO SOLVE
THE PROBLEM?**



MACRO-SCALE

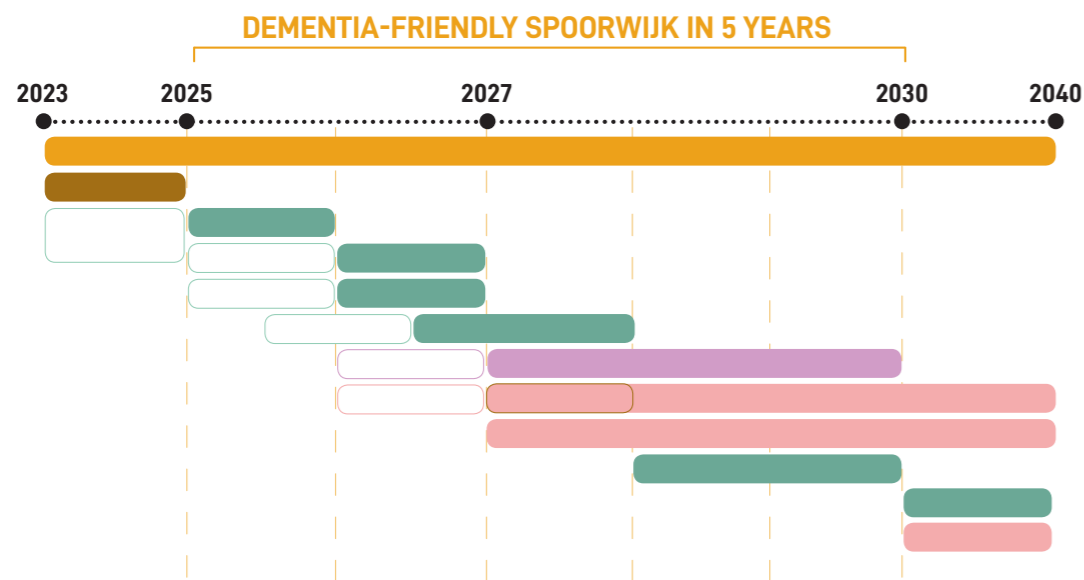


MACRO-SCALE TIER LIST



NEIGHBORHOOD

Pyramid of Bugra (2023)



MACRO SCALE TIER LIST

RELEVANCE AND PRIORITY RANKED
1 (HIGH) - 4 (LOW)

1

SAFETY & ORIENTATION



RELATED

2

SAFETY & ORIENTATION



3

VISUAL CUES

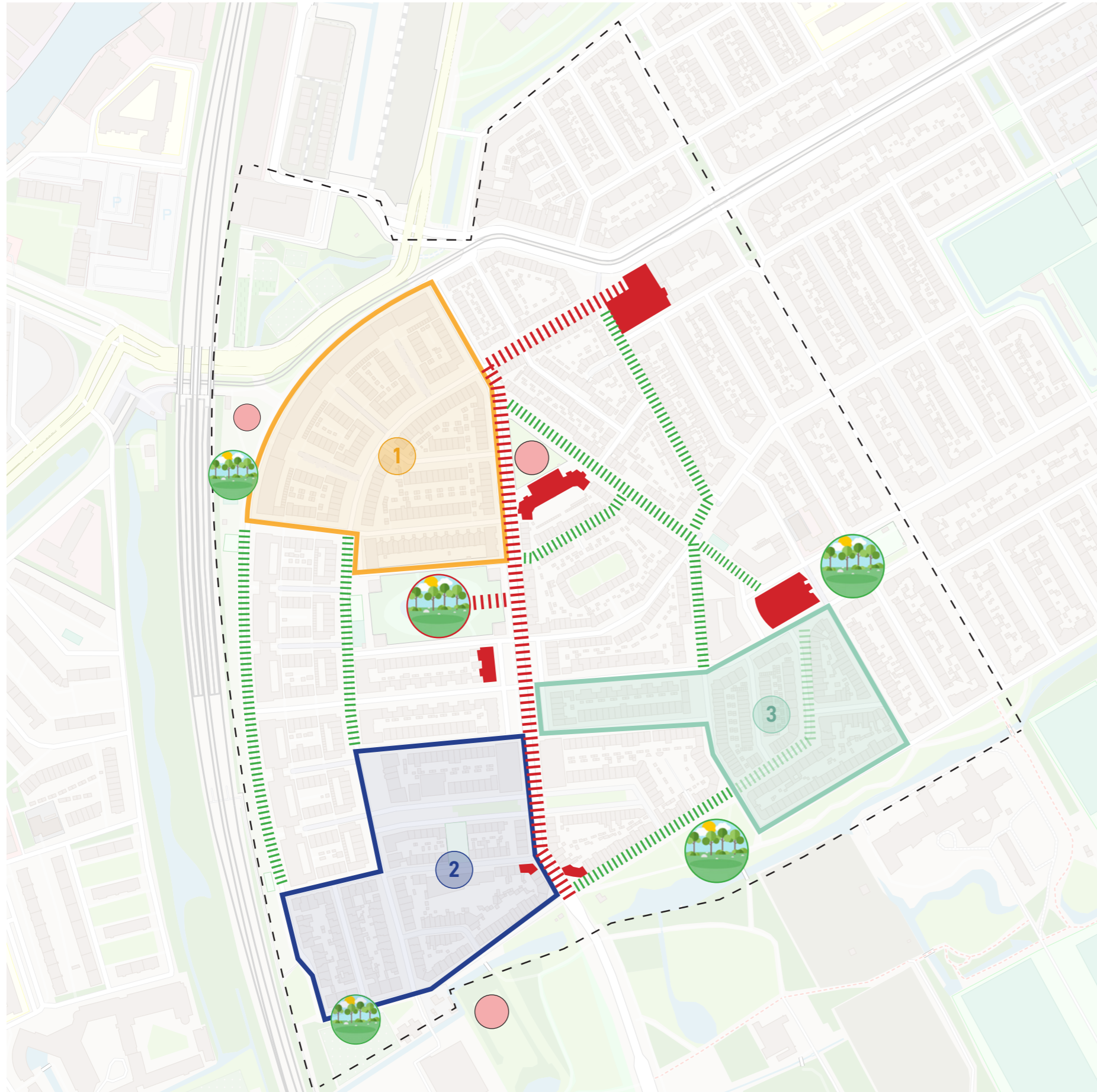


4

EXTRA



DEMENTIA-FRIENDLY SPOORWIJK | STRATEGY



WALKING ROUTE 1

- Park
- Playground
- Dementia Hub
- Daycare
- Temple

WALKING ROUTE 2

- Urban Farming patch
- Park
- Sports Hall
- Cafeteria
- Playground

WALKING ROUTE 3

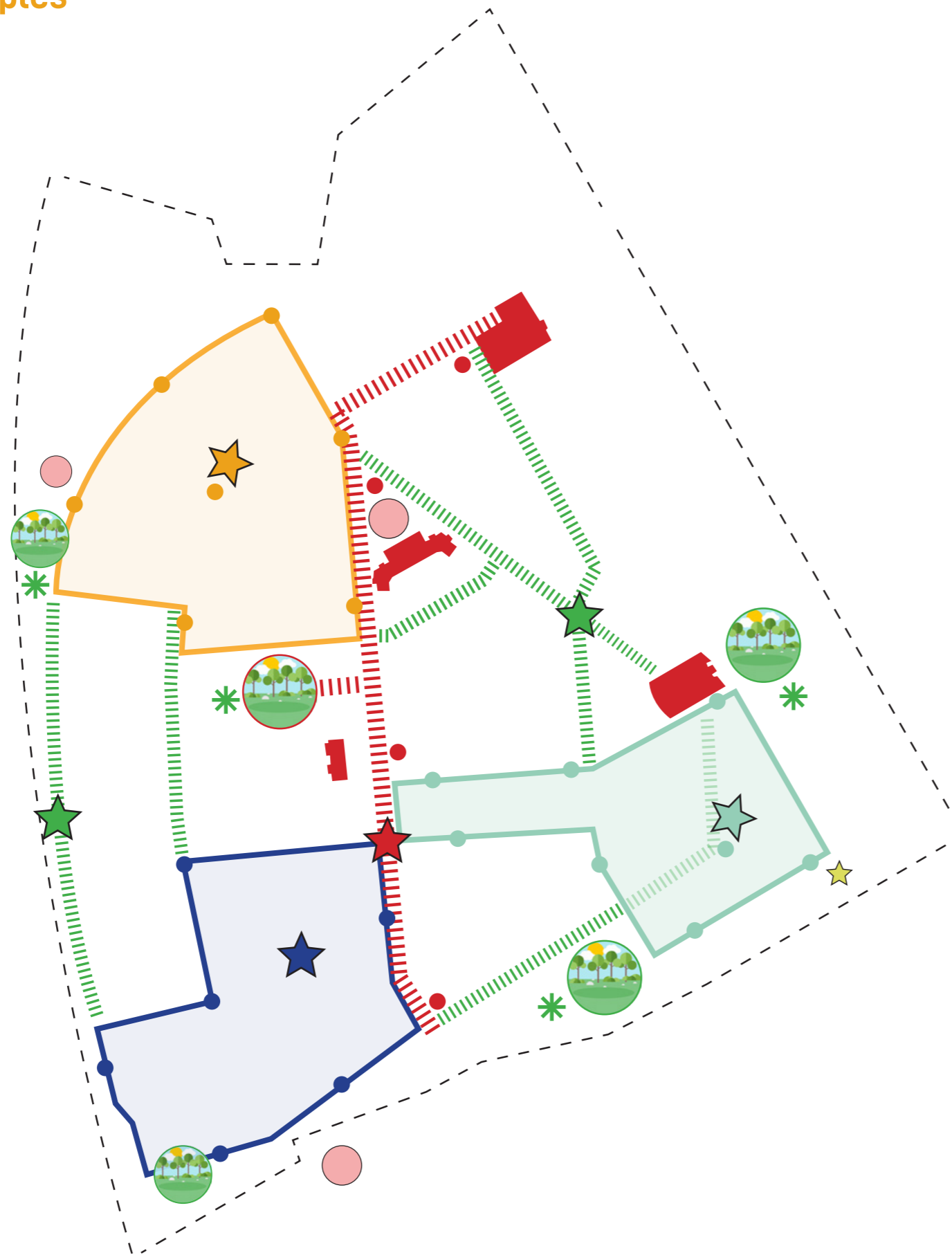
- Park
- Playground
- Outdoor Fitness
- Community Center

MAIN ROAD

- Connects main facilities and routes
- Big Park
- Health Center
- Temple
- Daycare
- Supermarket

DEMENTIA-FRIENDLY SPOORWIJK

Design principles



★ LANDMARK ✱ TOILET BLOCK
● BENCH

WALKING ROUTE ———

- BENCHES ON DEMENTIA-FRIENDLY ROUTE EVERY 100m**
- INCLUDE PARKS IN WALKING ROUTES**
- CIRCULAR WALKING ROUTES IN NEIGHBORHOOD**
- WOODEN STREET FURNITURE WITH GREENERY ON ROUTES**
- COLORED ROUTES WITH TILES AND SIGNS**
- LAMPPOST VARIATIONS FOR WAYFINDING**

MAIN ROAD |||||

- BENCHES ON DEMENTIA-FRIENDLY ROUTE EVERY 100m**
- WIDE STREETS AS KEY WALKING ROUTES**
- COLORED ROUTES WITH TILES AND SIGNS**
- WIDER CROSSWALKS AND SECURE TRANSITIONS**
- LAMPPOST VARIATIONS FOR WAYFINDING**
- RAILINGS AT SIGNS TO LEAN ON AT INTERSECTIONS**
- SIGNS OF FACILITIES NEIGHBORHOOD CONTAIN NAME AND ICON**
- SCENTED TREES, BUSHES AND FLOWERS AS WAYFINDING CUES**

CONNECTION ROAD ||||

SPOORWIJK

EXAMPLES



PERSONALISATION

Media Coverage



Fel kleurtje

Buren schrikken zich rot na plots verkleurd

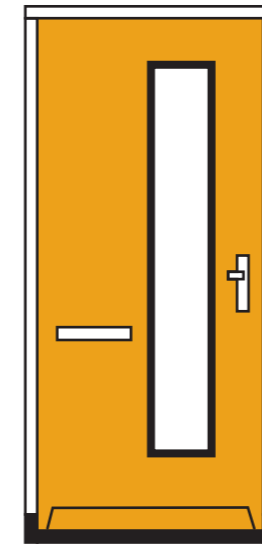
huis: 'Dit is een aanfluiting voor de wijk'

**ARTICLE IN
ALGEMEEN DAGBLAD**

About facade in
Laakkwartier

PERSONALISATION

Individual Homes



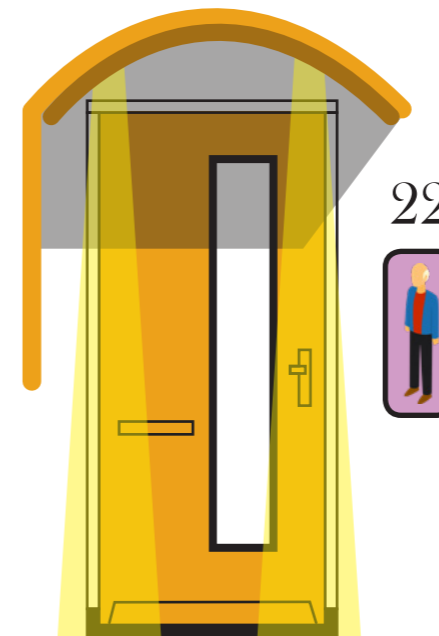
COLORED DOOR



DECAL DOOR



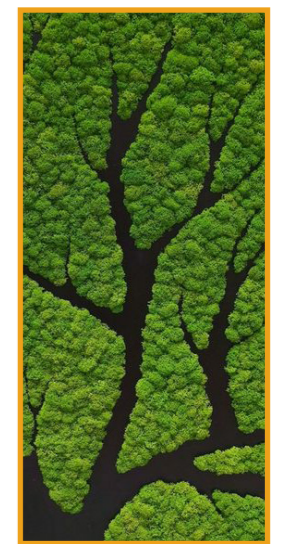
SHOWCASE ITEM OR QUOTE



CANOPY (WITH LIGHTS)



FACADE PLANTS



MOSS PANEL



PERSONAL FURNITURE



PERSONAL PLANTS

PERSONALISATION

Neighborhood - recognizability & orientation



UNIQUE ARTIST MURALS



UNIQUE SYMBOL AND AREA NAME



ARTIST ARTWORKS WITH BIRDHOUSES



BIOPHILIC DESIGN

DEMENTIA-FRIENDLY SPOORWIJK

Confusing Squares



7 IDENTICAL SQUARES

BRICK AND CONCRETE SQUARES
IDENTICAL
LIMITED GREENERY
NOT USED AND EMPTY

DEMENTIA-FRIENDLY SPOORWIJK

Various Themes - recognizability & orientation



DISTINCTION WITH THEMES
ENCOURAGE SOCIAL INTERACTION
MORE ACTIVITIES
MORE GREENERY

DEMENTIA-FRIENDLY SPOORWIJK

Urban Farming



DISTINCTION WITH THEMES
MORE SOCIAL INTERACTION
MORE ACTIVITIES
MORE GREENERY

ROUTING & SAFETY



DEMENTIA-FRIENDLY SPOORWIJK



ROUTING TILES

Specials

VISUAL



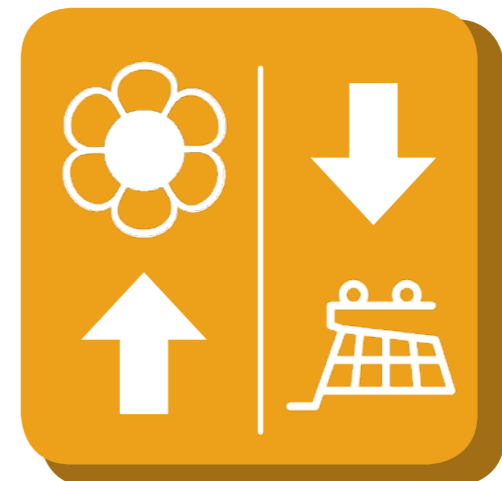
SUPERMARKET



DEMENTIA HUB



DAYCARE

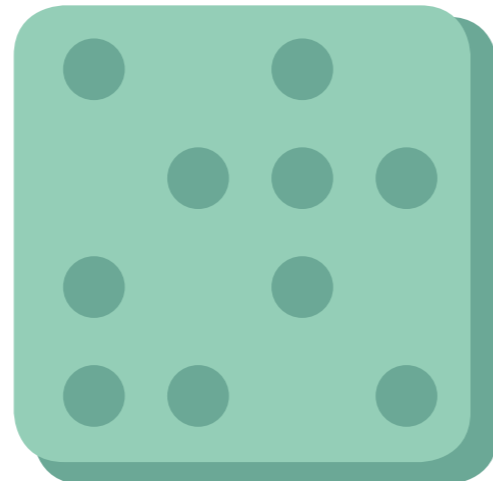


COMBINED

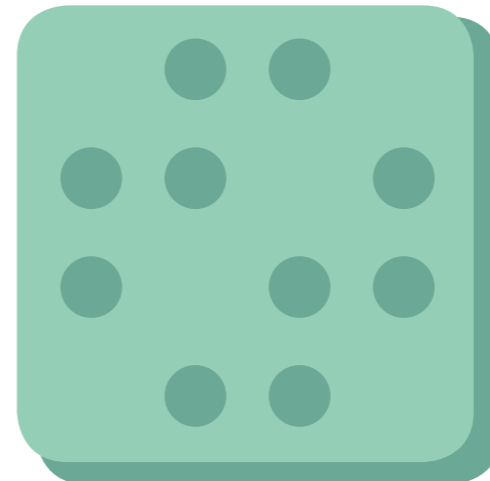
EXPERIMENTAL



SOUNDTILE 1



SOUNDTILE 2

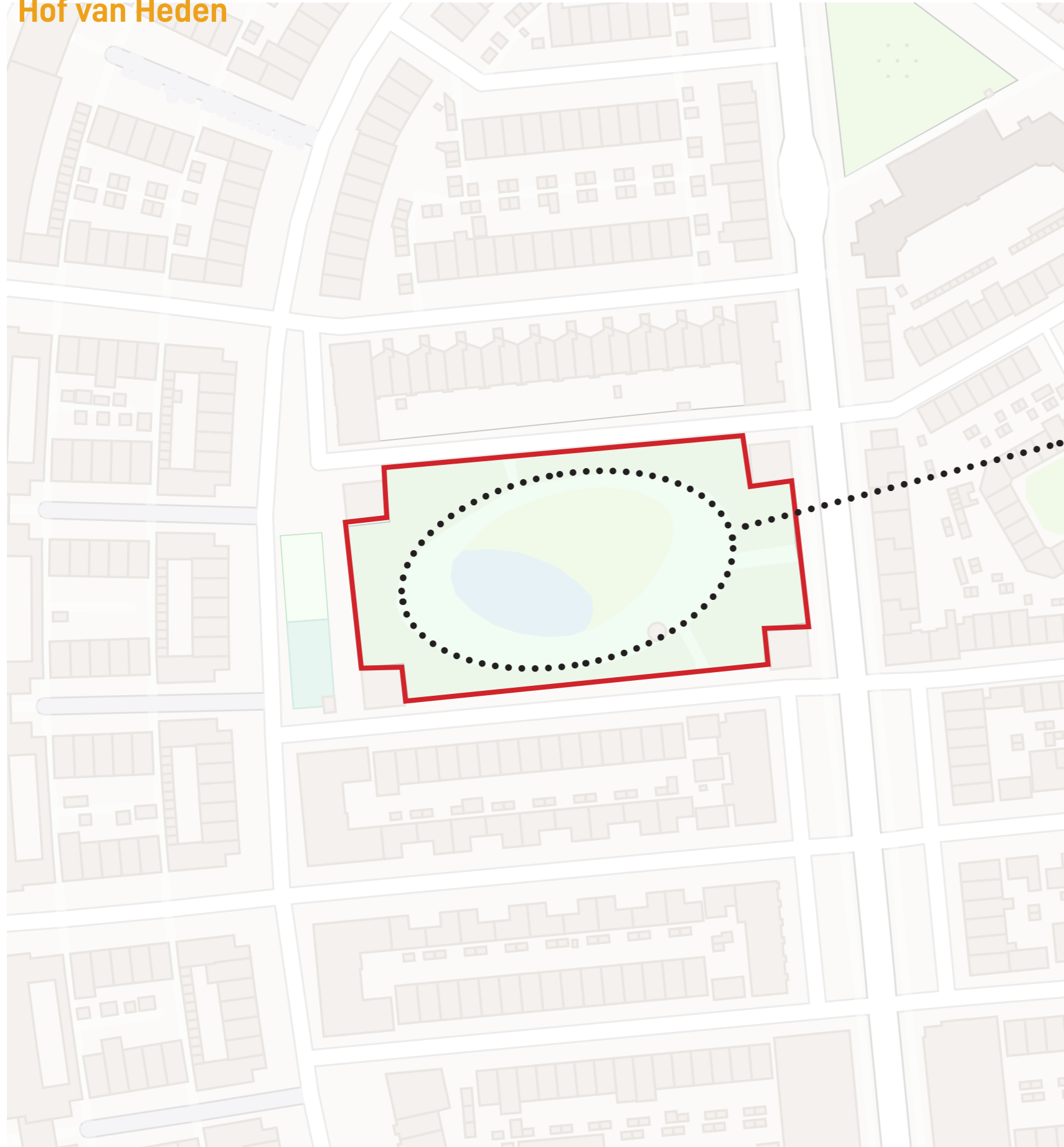


SOUNDTILE 3



MOVEMENT TILES

Hof van Heden



1 mobilititeit soepelheid REIKEN	2 kracht OPSTAAN EN GAAN ZITTEN	3 kracht balans coördinatie ZIJWAARTS AANTIKKEN
7 mobilititeit soepelheid ARMEN OPTILLEN	8 conditie SNELWANDELEN	9 kracht balans KNEIEFFEN
13 soepelheid SCHOULDERS DRAAIEN	14 balans coördinatie OVER EEN LIJN LOPEN	15 balans coördinatie DIAGONAAL LOPEN

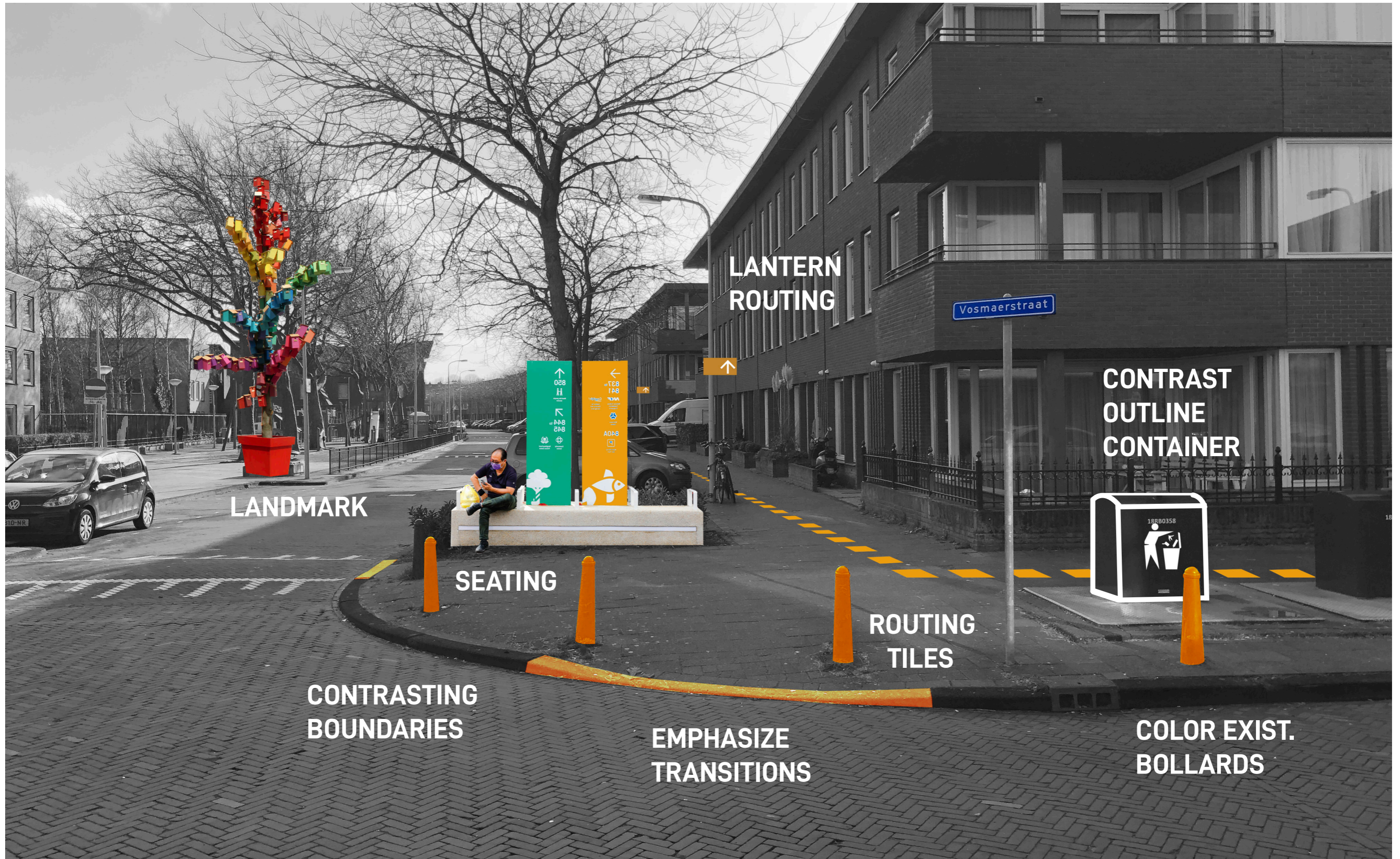
SOURCE: KWIEKROUTE

POSITIVES:
+ STIMULATING MOVEMENT
+ SOCIAL INTERACTION

NEGATIVE:
DARK TILE COLOR CAN BE
CONFUSING



DEMENTIA-FRIENDLY SPOORWIJK



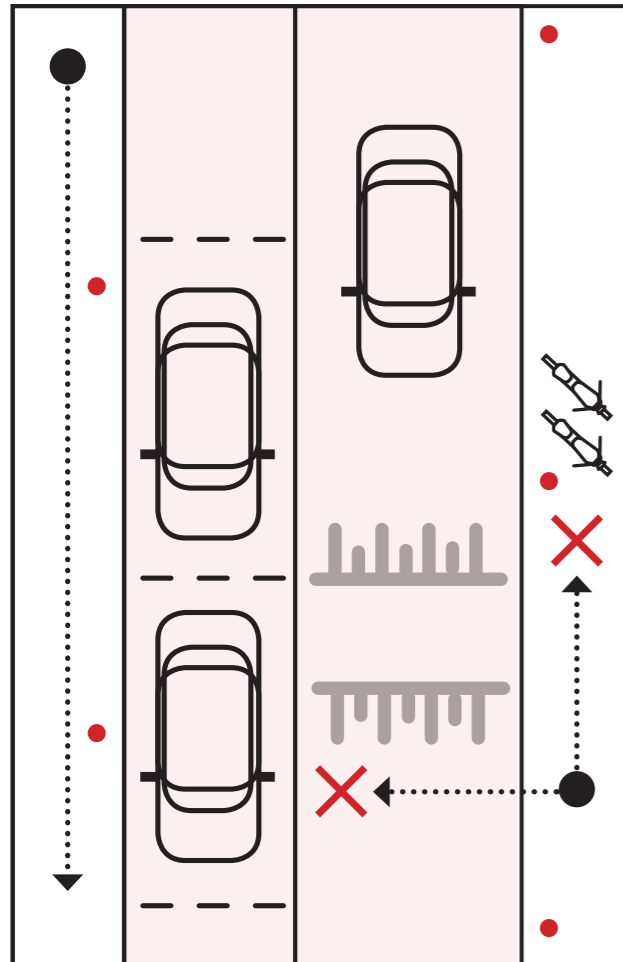
DEMENTIA-FRIENDLY SPOORWIJK

Narrow Streets



DEMENTIA-FRIENDLY SPOORWIJK

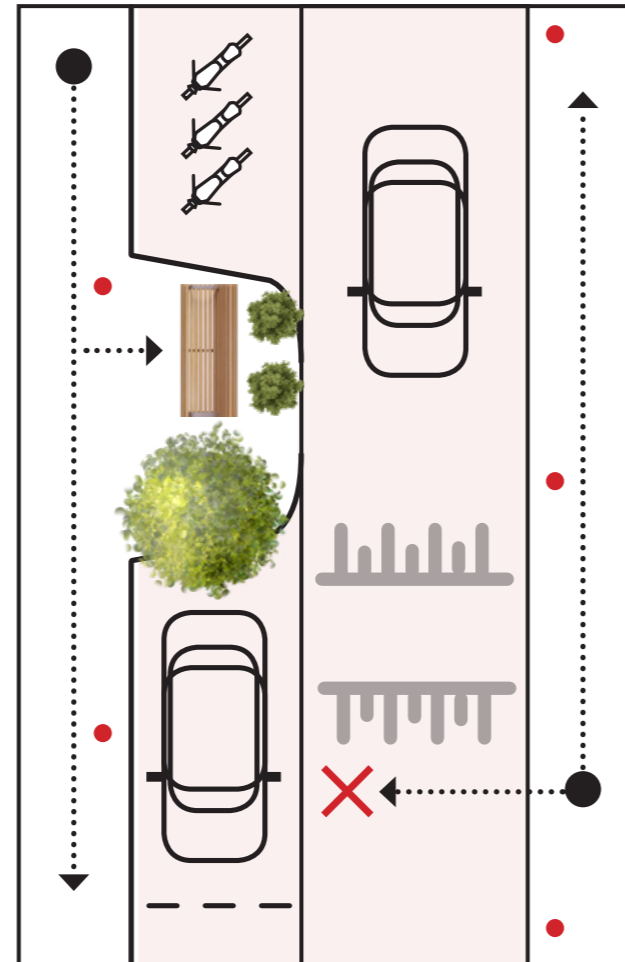
Narrow Street Options



CURRENT SITUATION

NOW:

- CAR DOMINANT
- NO PLACE FOR BENCHES
- CLUTTER BLOCKING STREET
- NARROW FOOT PATH
- NO SAFE TRANSITIONS
- NO GREENERY

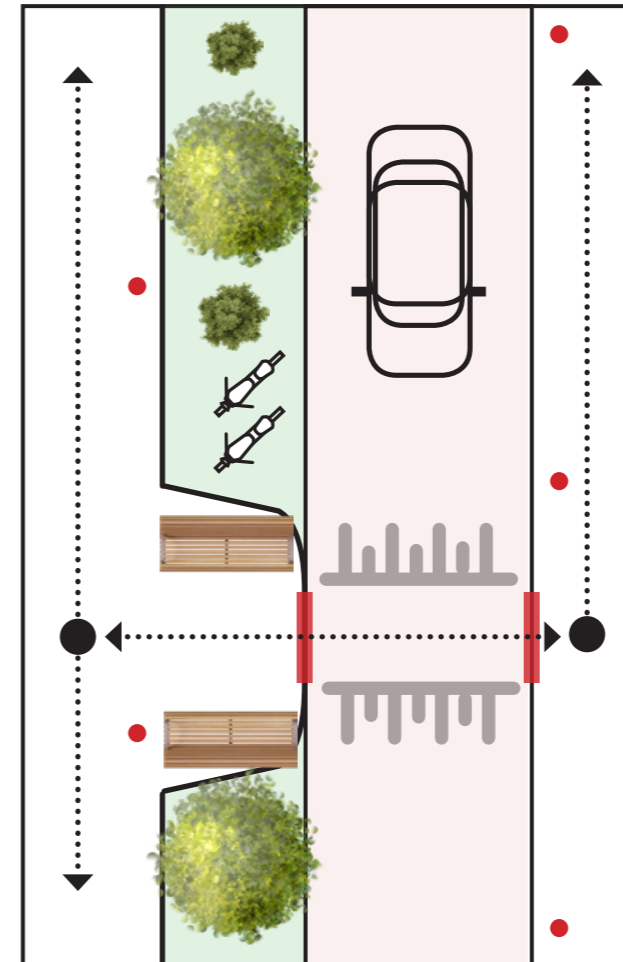


1. REMOVED PARKING SPOT

CHANGES:

- REMOVED PARKING SPOT
- ADDED SPACE FOR BENCH
- GREENERY
- SPACE FOR BIKES
- NO CLUTTER

TIME ●
EFFORT ●
MONEY €

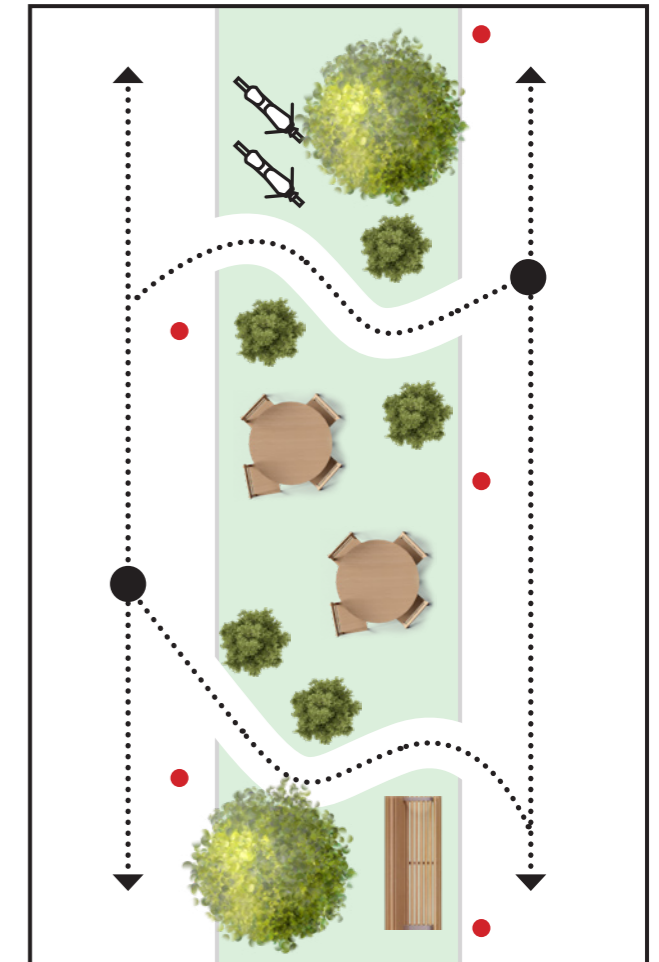


2. GREEN BUFFER

CHANGES:

- REMOVED ALL PARKING SPOTS
- GREEN BUFFER FOR SAFETY AND SOUND
- BENCHES AND WIDER STREET
- SAFE TRANSITIONS

TIME ● ●
EFFORT ● ●
MONEY € €



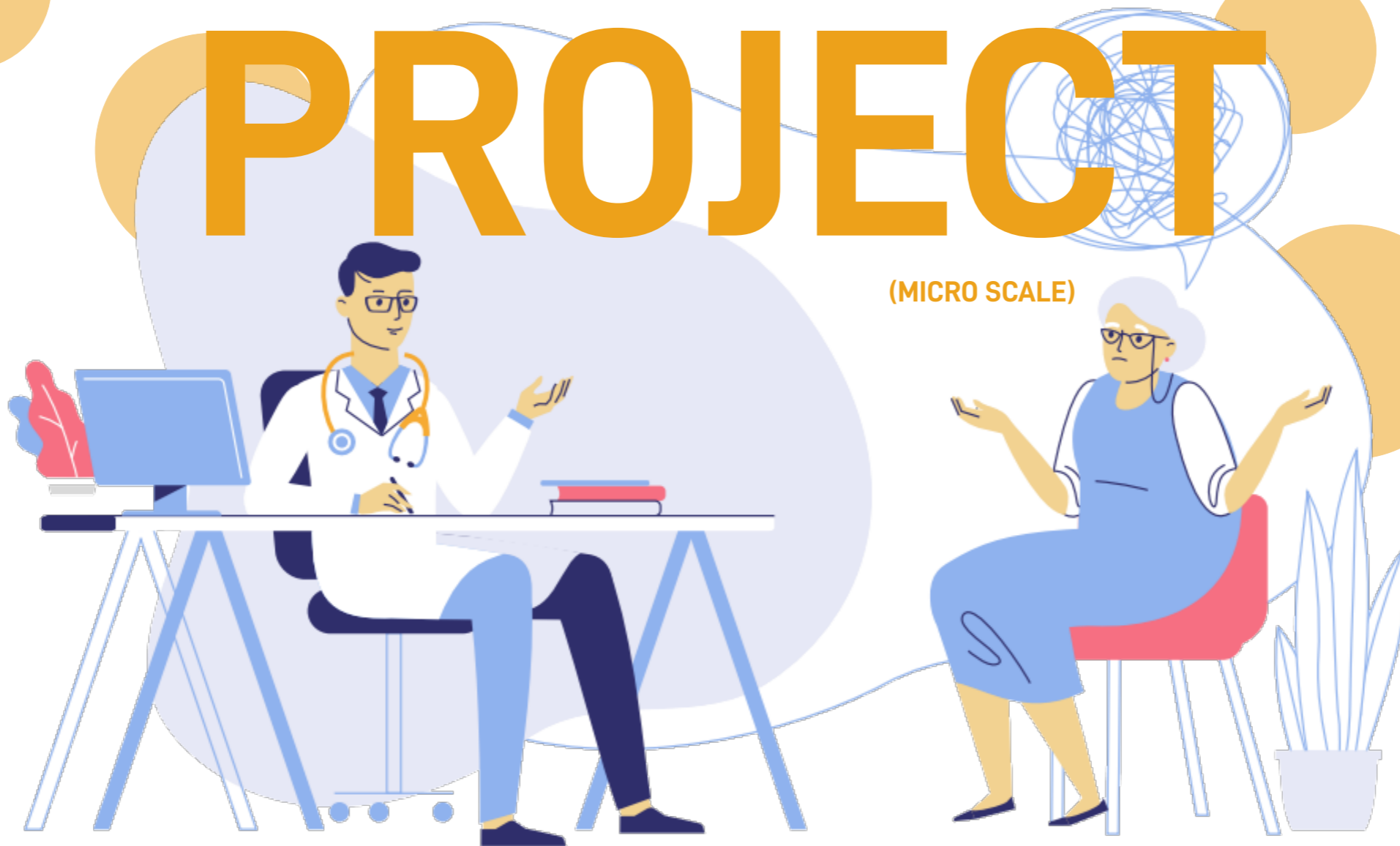
3. CAR FREE STREET

CHANGES:

- DIFFERENT PAVEMENT TYPES
- QUIETER STREET
- MORE OVERVIEW & SAFETY
- MORE GREENERY
- SPACE FOR ACTIVITIES

TIME ● ● ●
EFFORT ● ● ●
MONEY € € €

DESIGN PROJECT

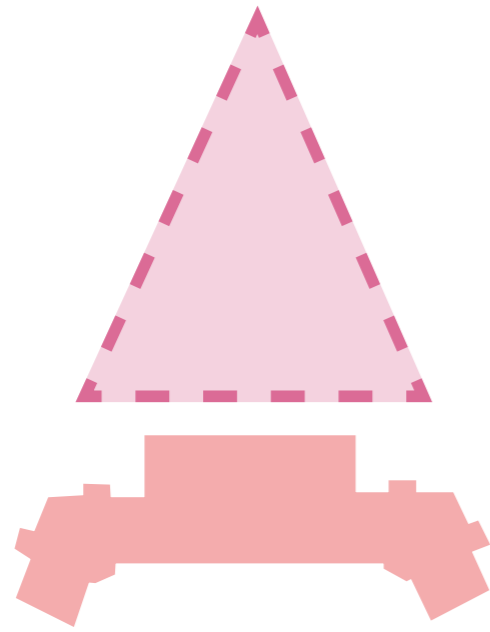


NEIGHBORHOOD

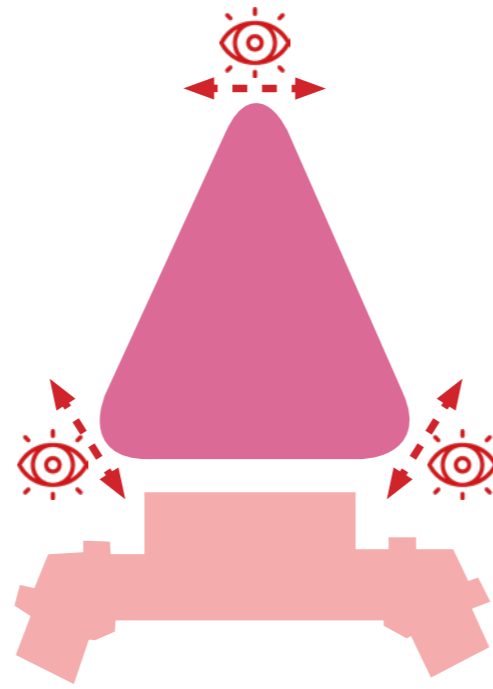


DEMENTIA DAYCARE

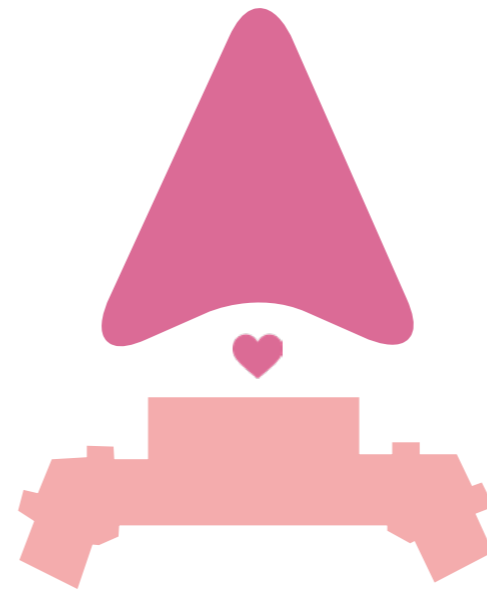




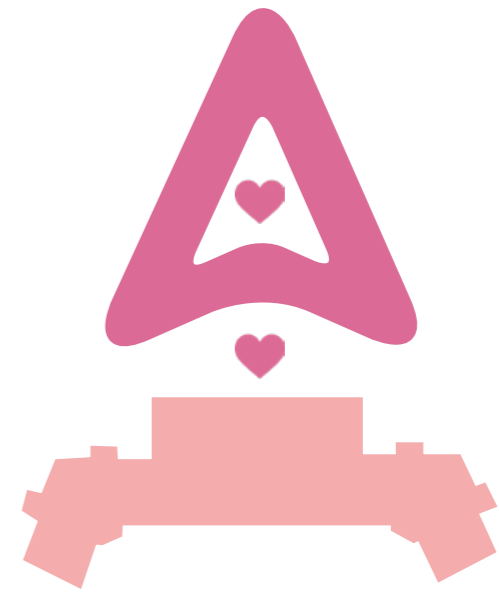
1. empty plot next to the temple



2. rounded corners for better visibility

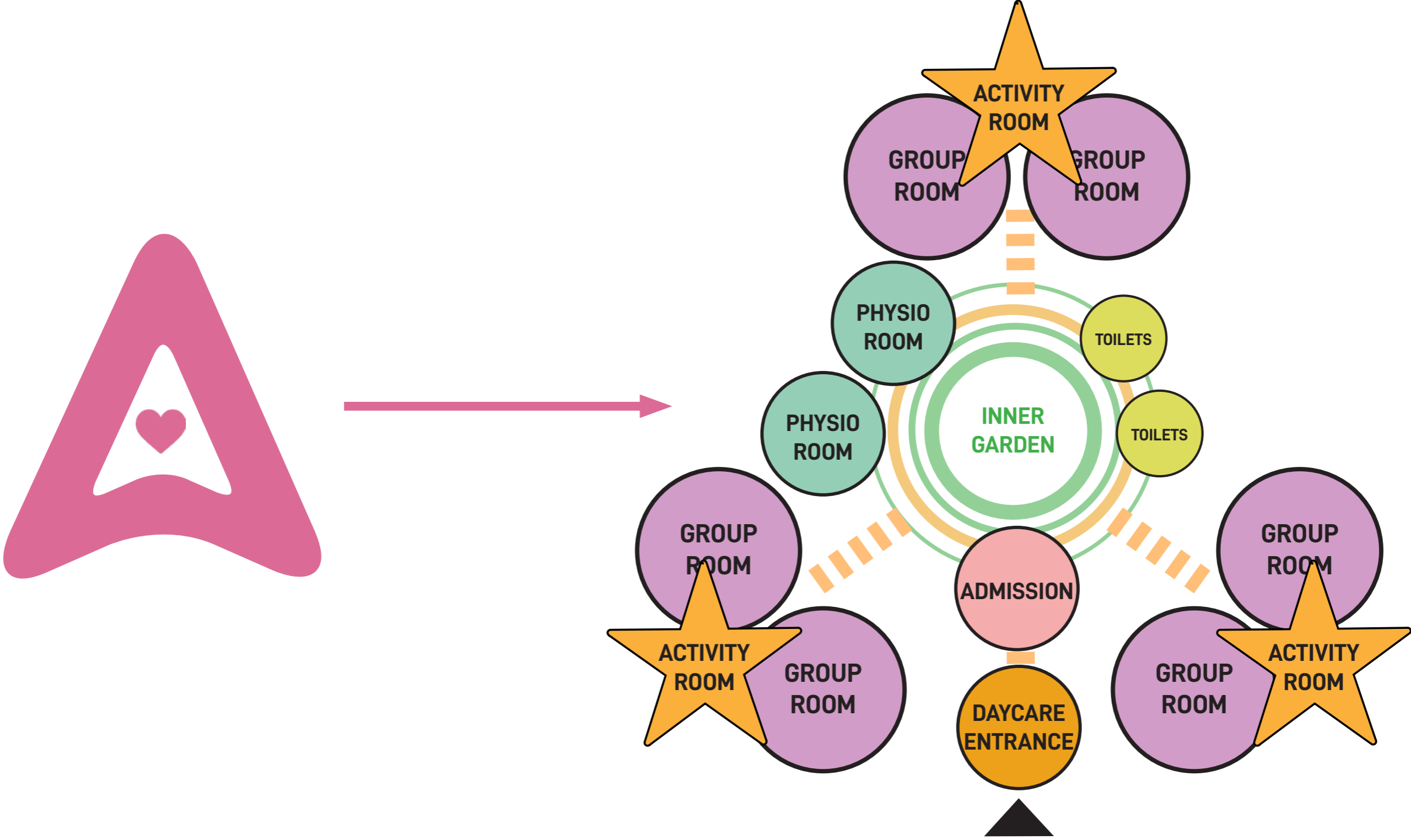


3. square in front of temple for social interaction



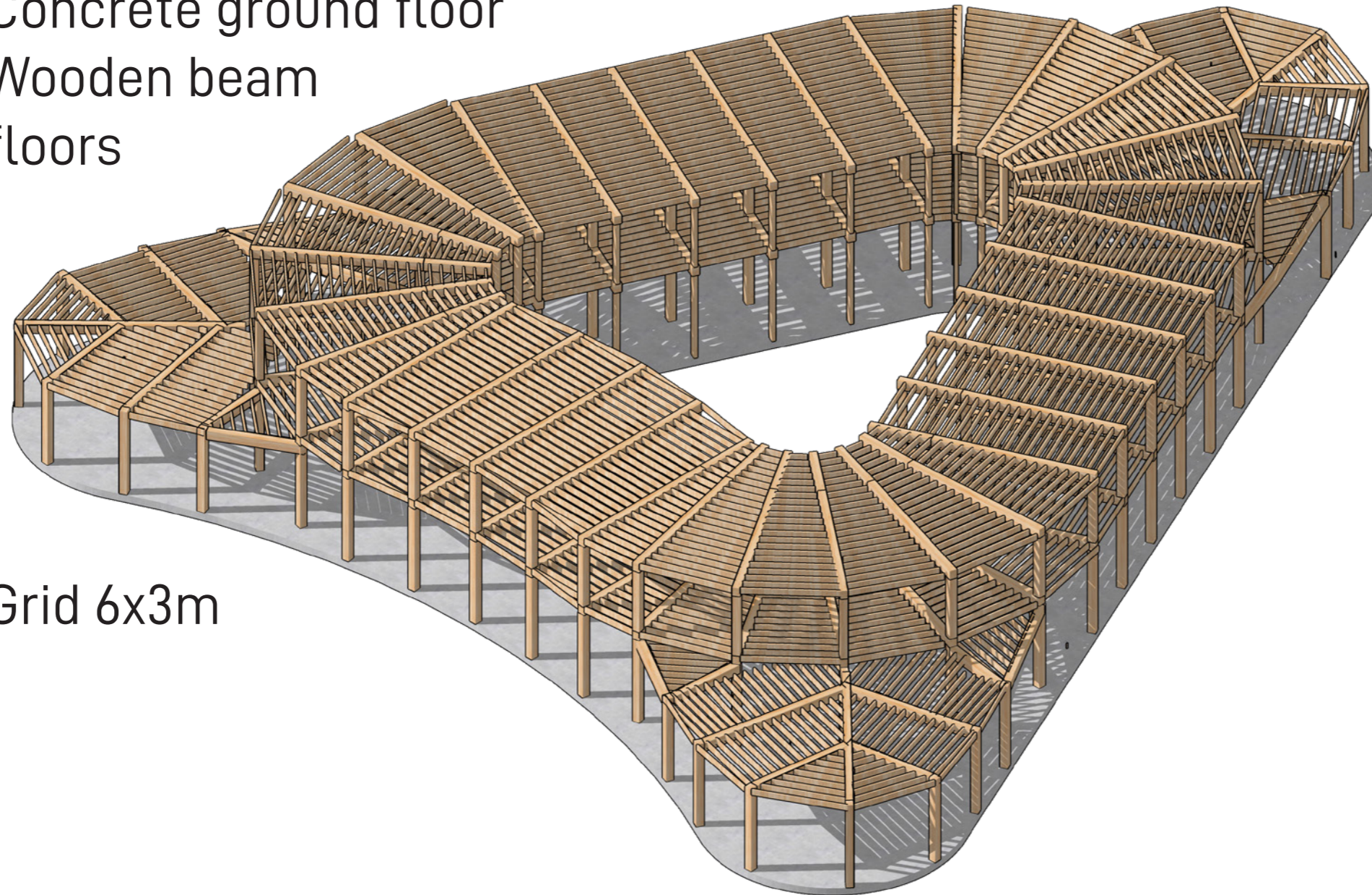
4. safe and calming sensory garden

SPATIAL PROGRAM



CLT STRUCTURE

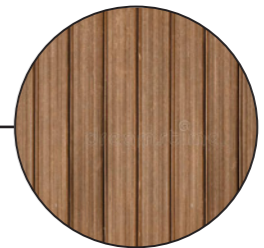
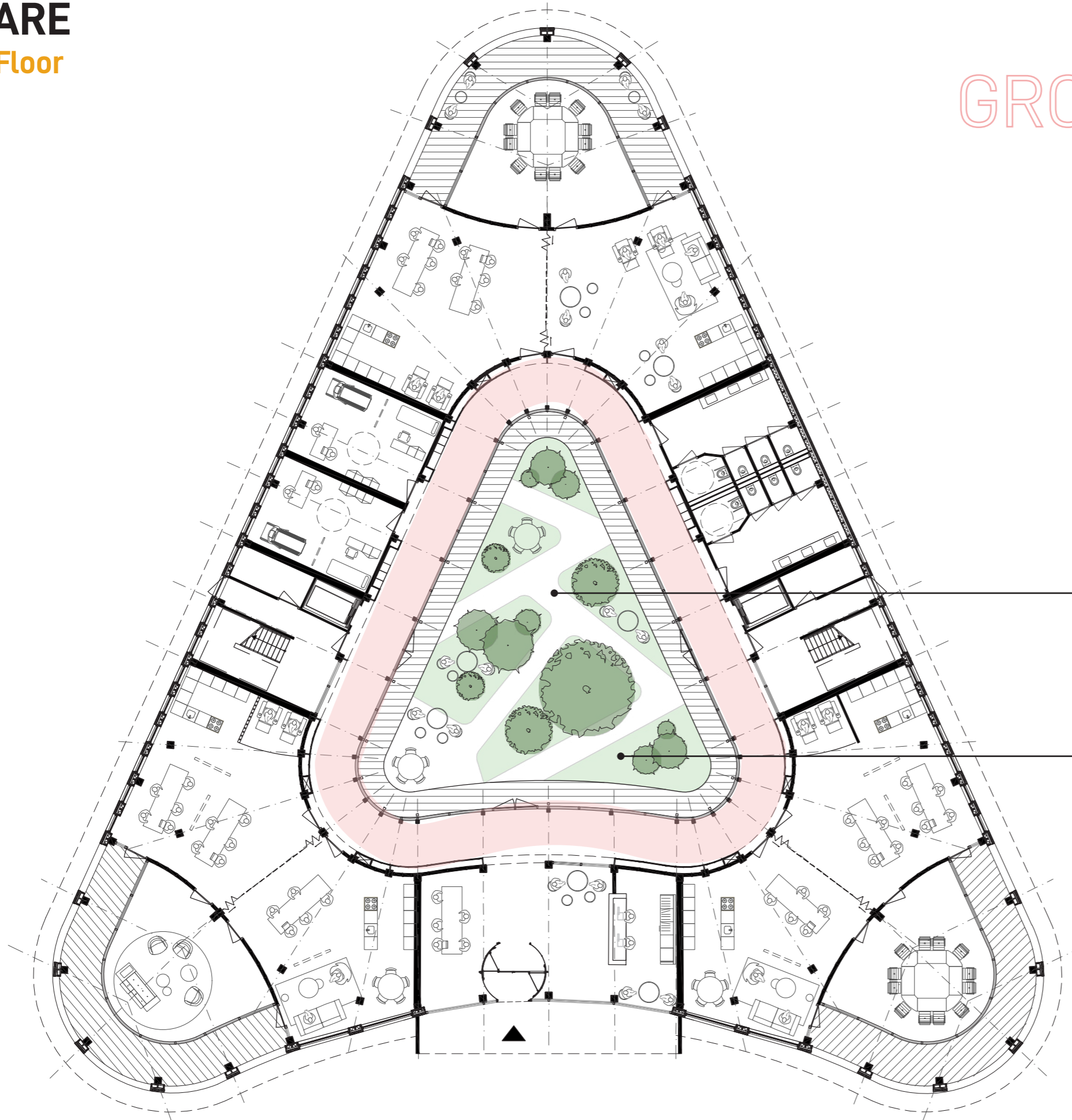
Concrete ground floor
Wooden beam
floors



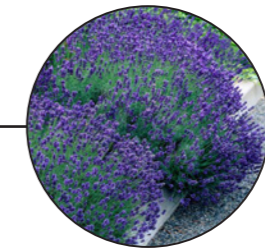
Grid 6x3m

GROUND FLOOR

Dementia daycare
3 activity rooms
6 group rooms
2 medical rooms
outdoor spaces
sensory garden



Feel & sight



Smell

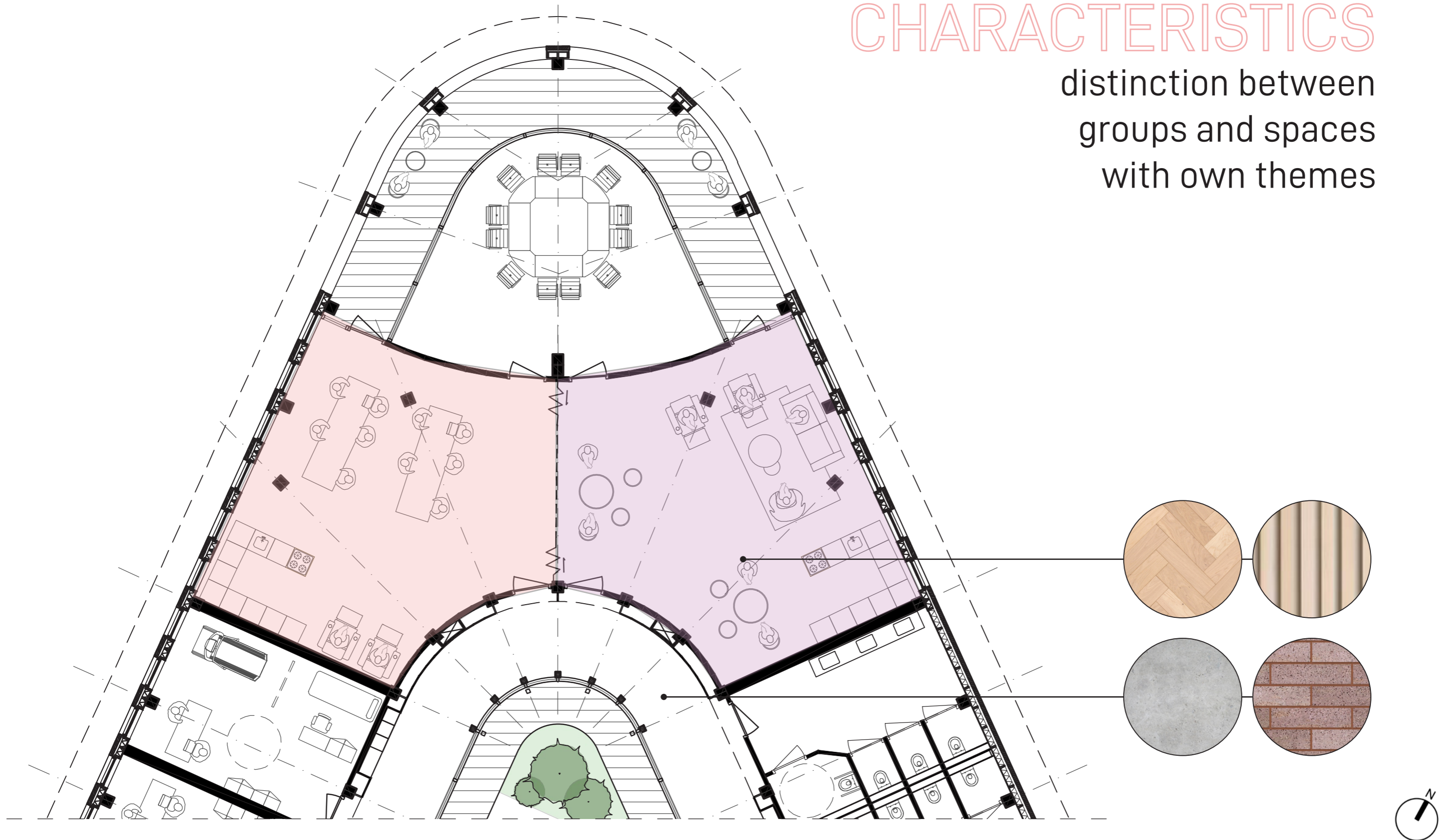


Taste & Sound



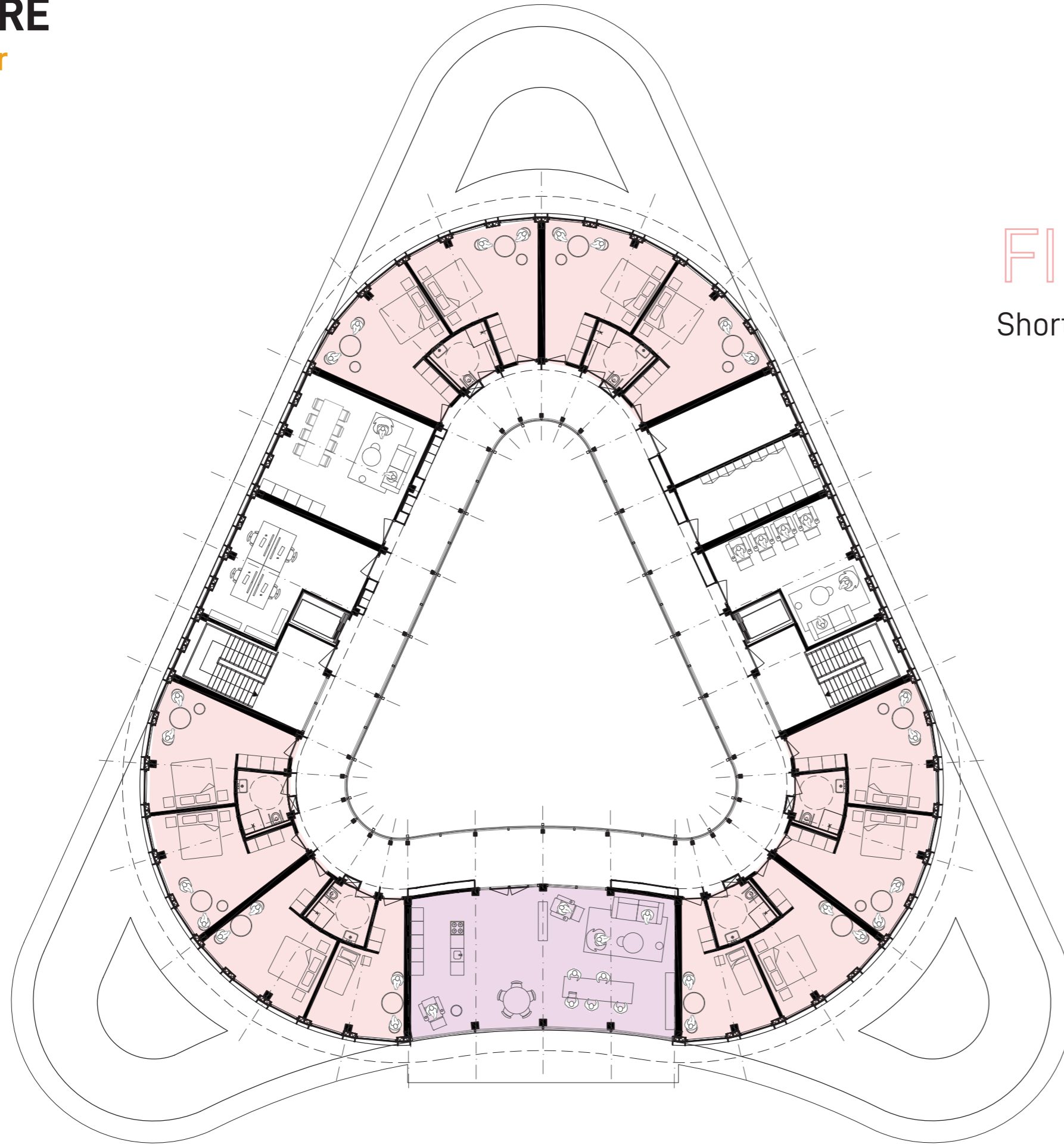
CHARACTERISTICS

distinction between groups and spaces with own themes



IMPRESSION INTERIOR DAYCARE

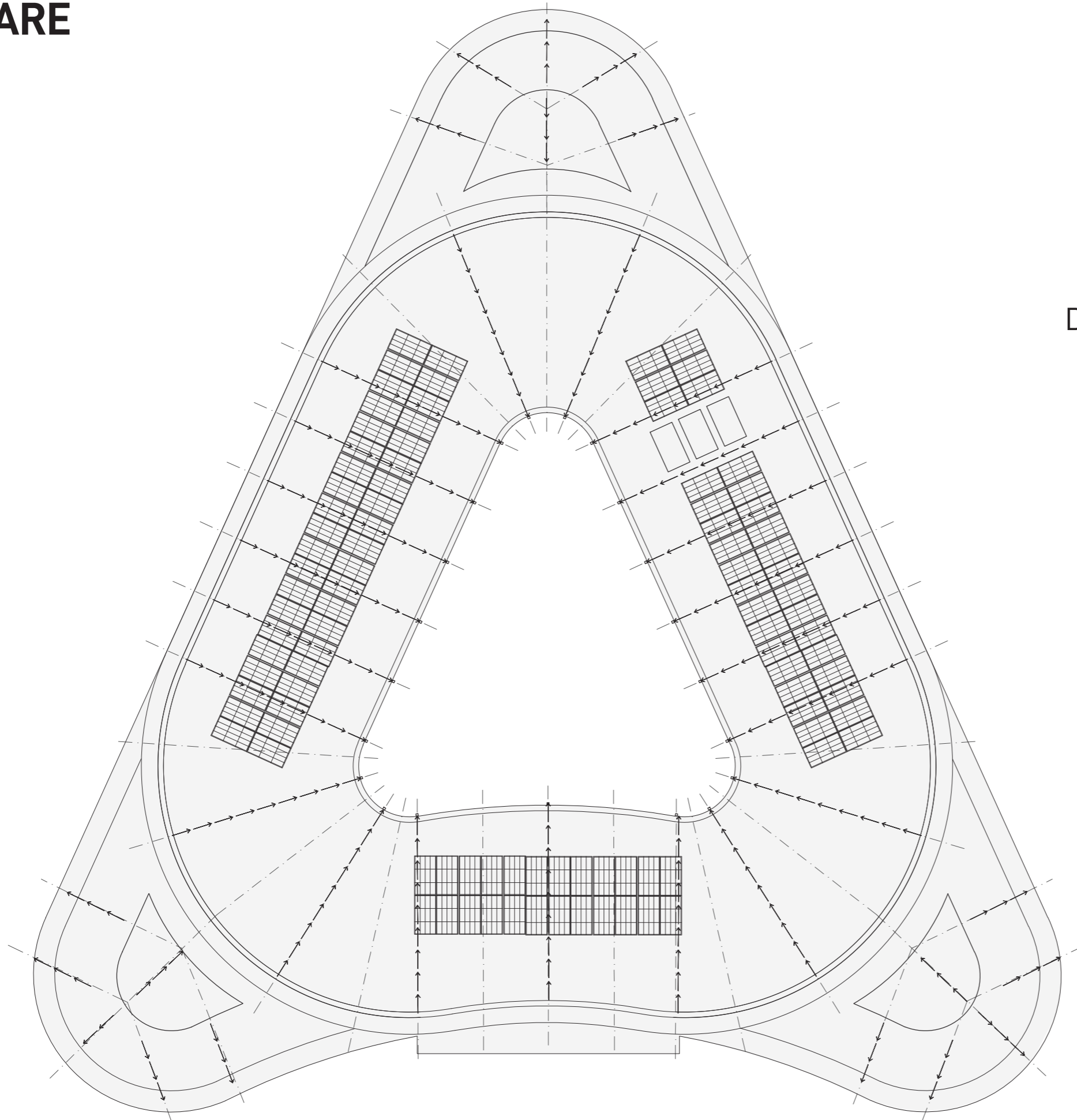




FIRST FLOOR

Short-stay night care facilities
12 rooms for patients
or caregivers
Living room
sensory room



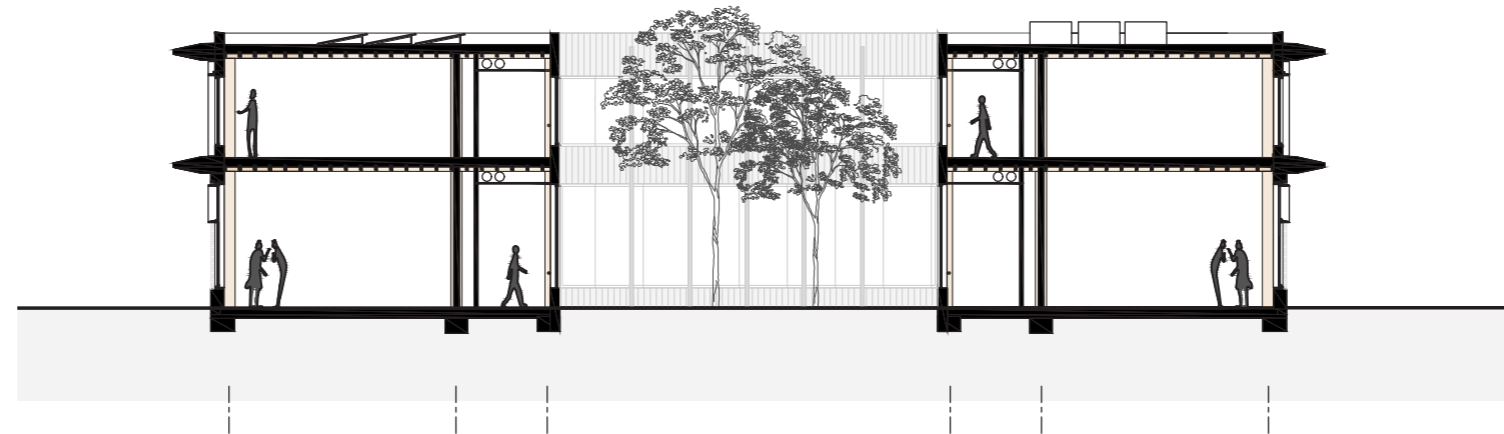
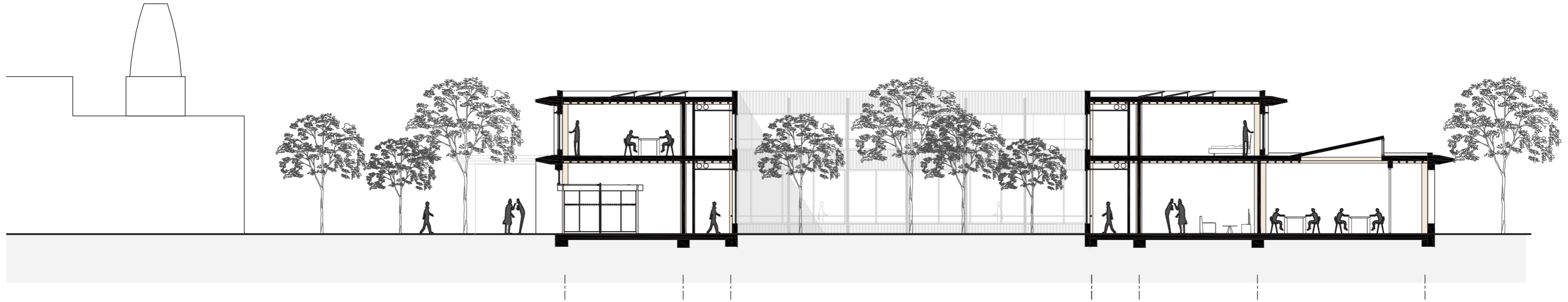


ROOF

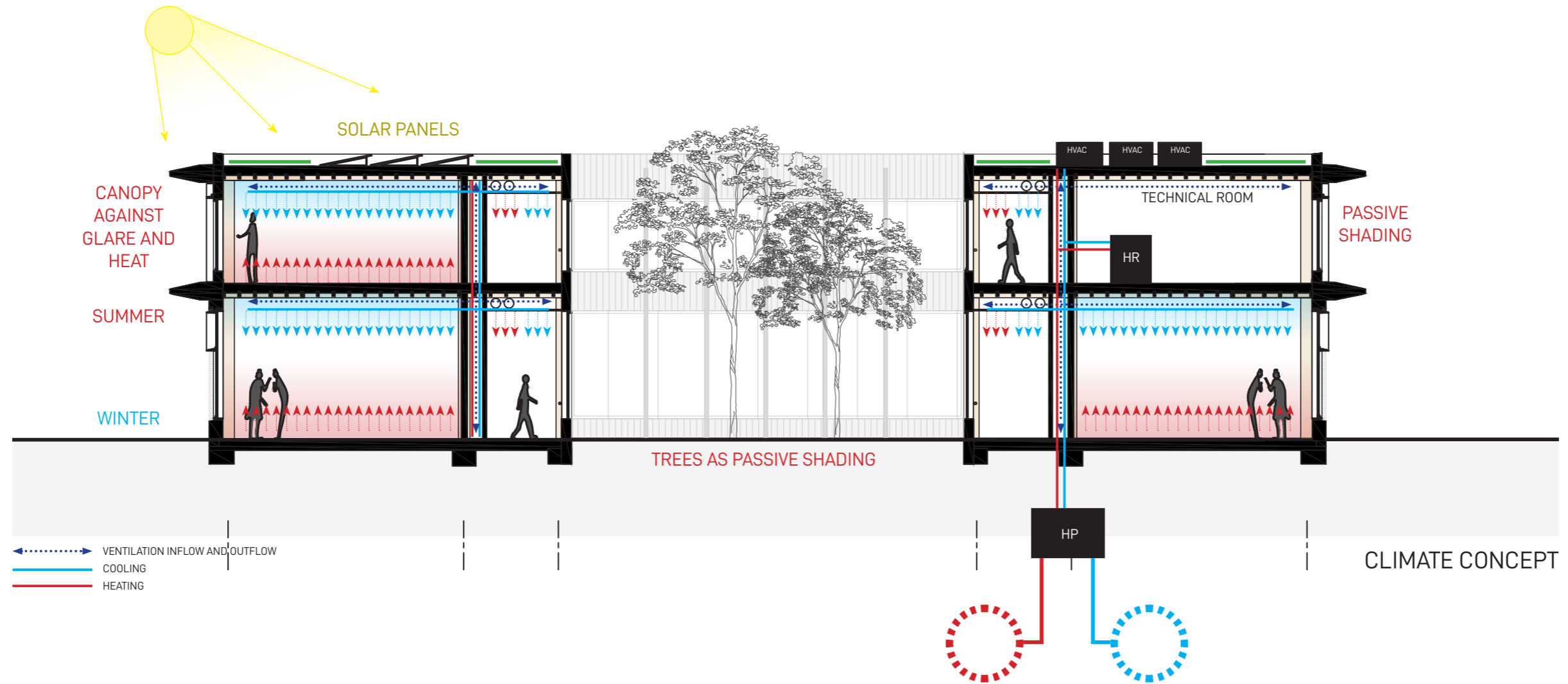
Drainage to inner garden
Solar panels
HVAC

DAYCARE

Section



CLIMATE & SUSTAINABILITY



- 
 open timber frame
- 
 biocomposite facades
- 
 hemp insulation
- 
 stonecycling bricks
- 
 green roof
- 
 energy production
- 
 energy efficient LED lights

DAYCARE

Context

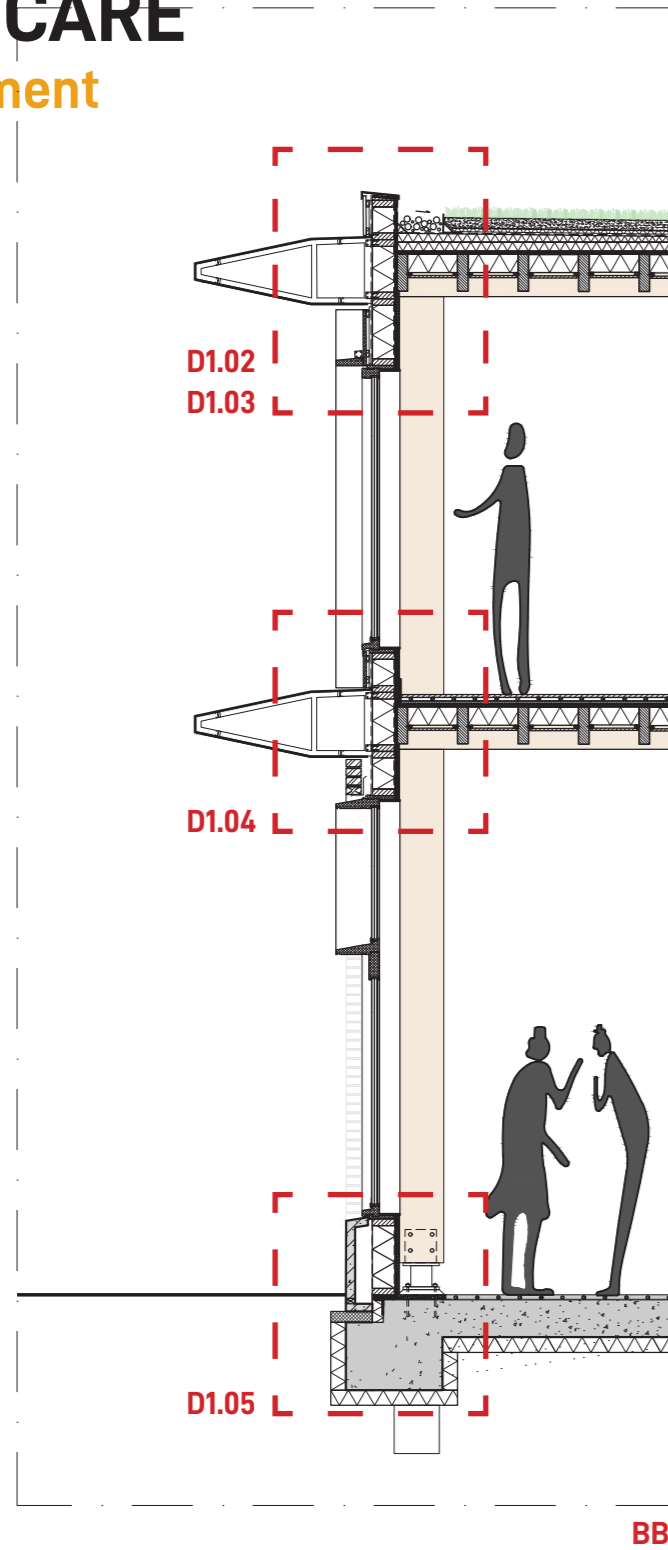


IMPRESSION DAYCARE



DAYCARE

Fragment

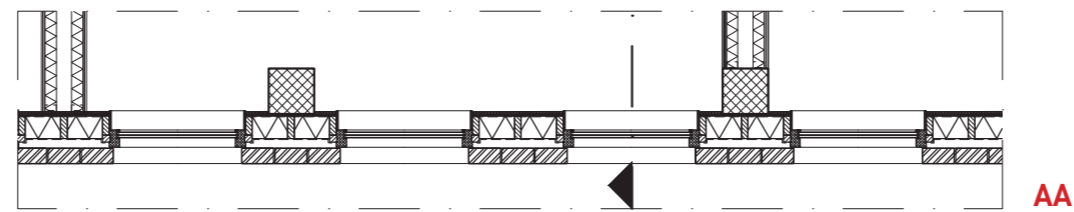


BB

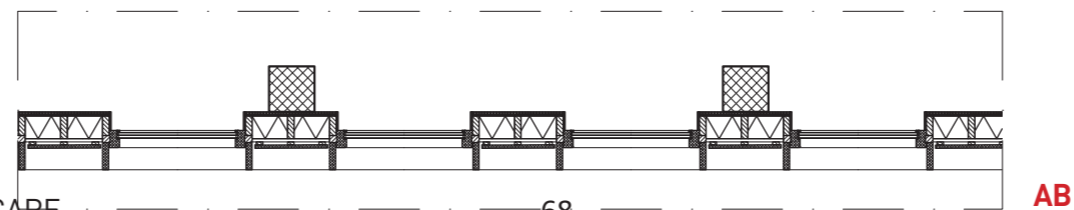


AB

AA



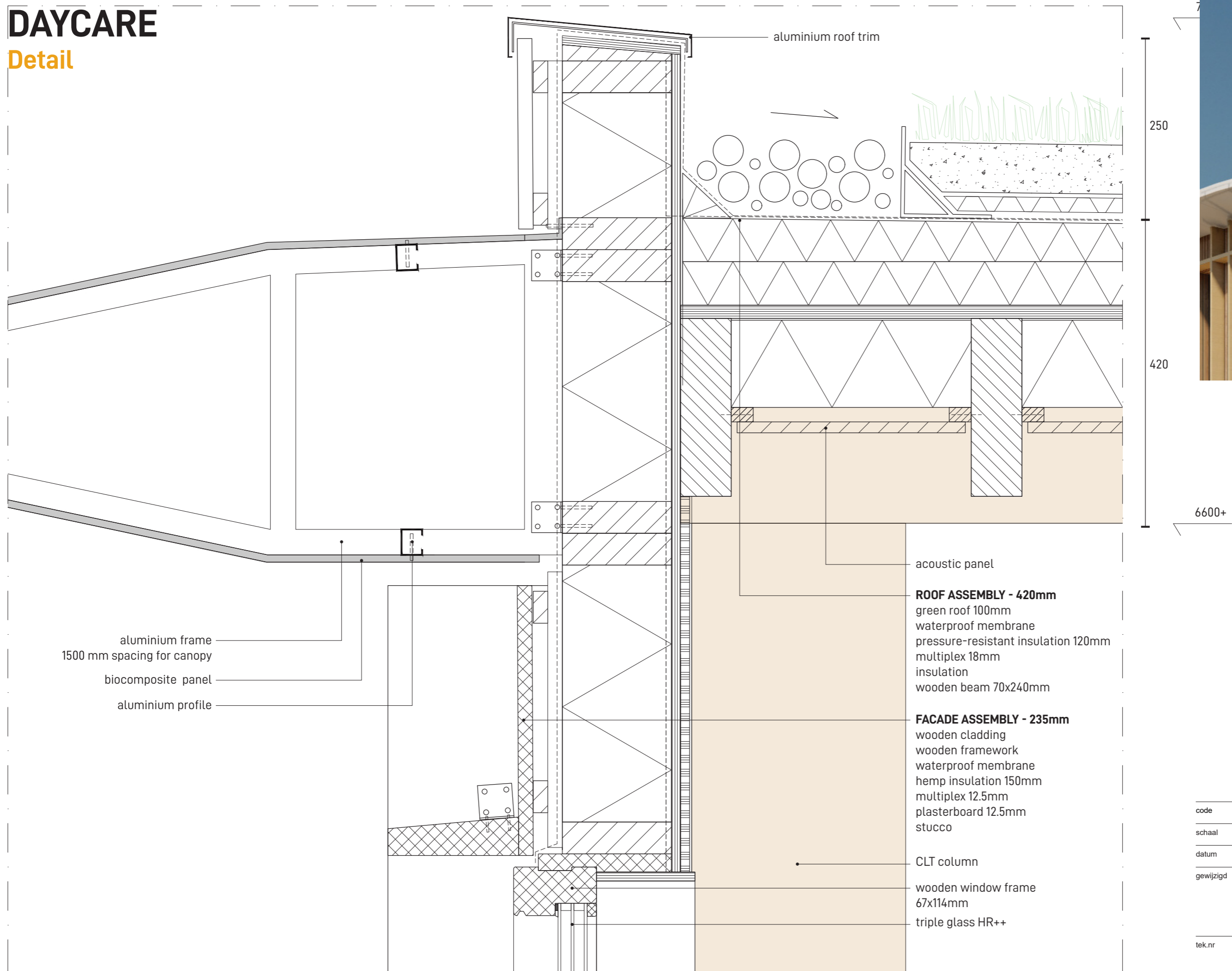
AA



AB

DAYCARE

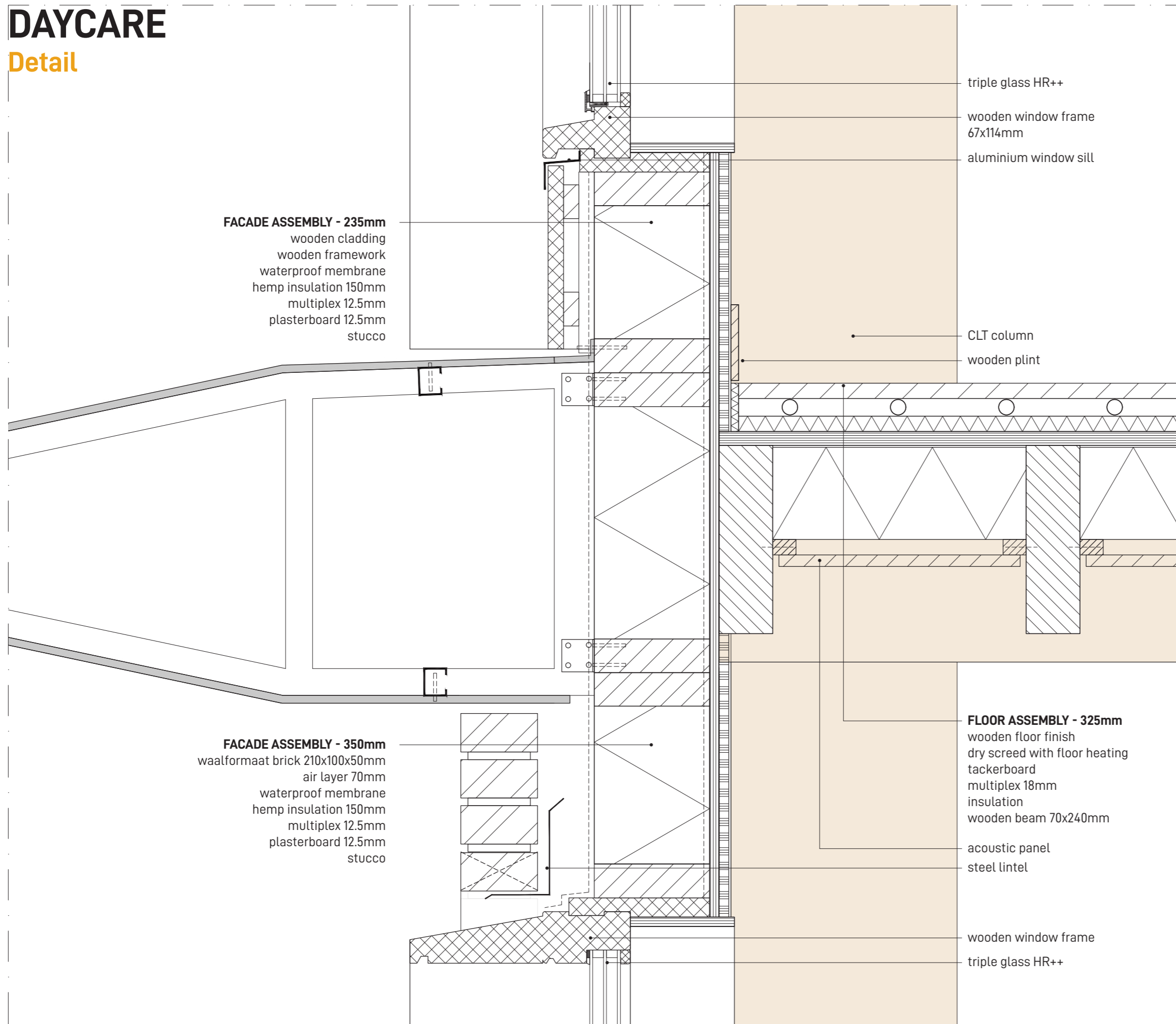
Detail



code	DY - Gevel		
schaal	1:5		
datum	16-05-23		
gewijzigd	a	b	c
	d	e	f
	g	h	i
tek.nr	1.02		

DAYCARE

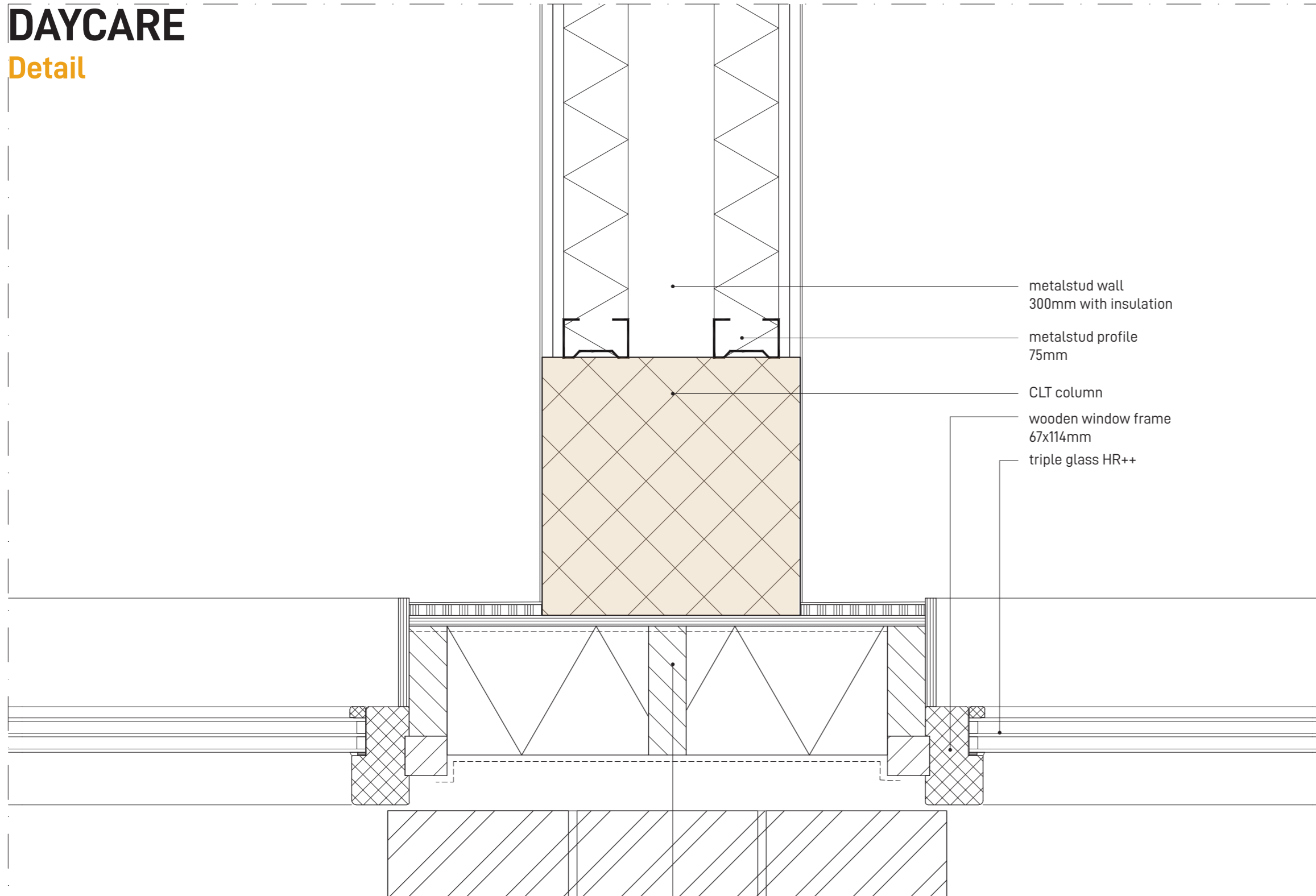
Detail



code	DY - Gevel		
schaal	1:5		
datum	16-05-23		
gewijzigd	a	b	c
	d	e	f
	g	h	i
tek.nr	1.04		

DAYCARE

Detail



metalstud wall
300mm with insulation

metalstud profile
75mm

CLT column

wooden window frame
67x114mm

triple glass HR++

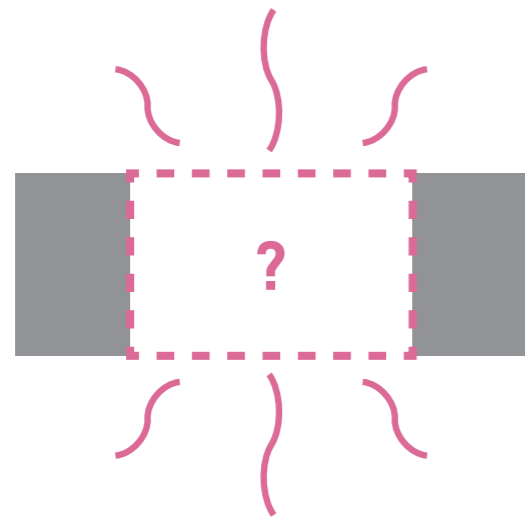
FACADE ASSEMBLY - 350mm
waalformaat brick 210x100x50mm
air layer 70mm
waterproof membrane
hemp insulation 150mm
multiplex 12.5mm
plasterboard 12.5mm
stucco

code	DY - Gevel		
schaal	1:5		
datum	16-05-23		
gewijzigd	a	b	c
	d	e	f
	g	h	i
tek.nr	1.06		

NURSING STATION



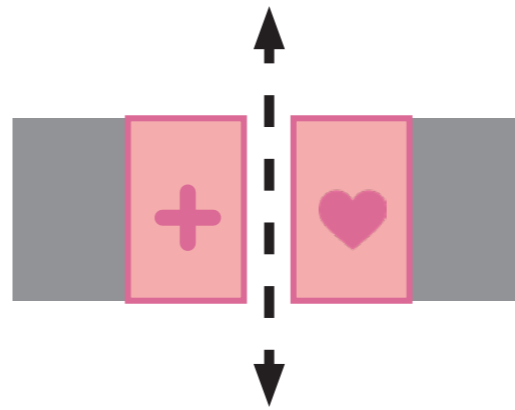
CONCEPT



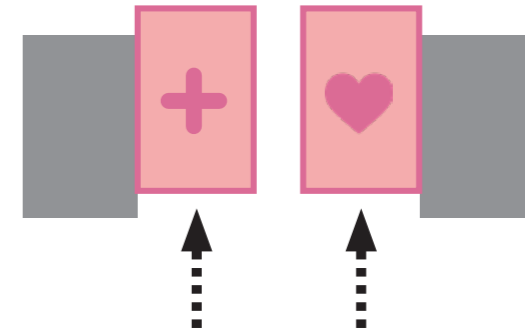
1. find void between buildings



2. fill void with needed facility

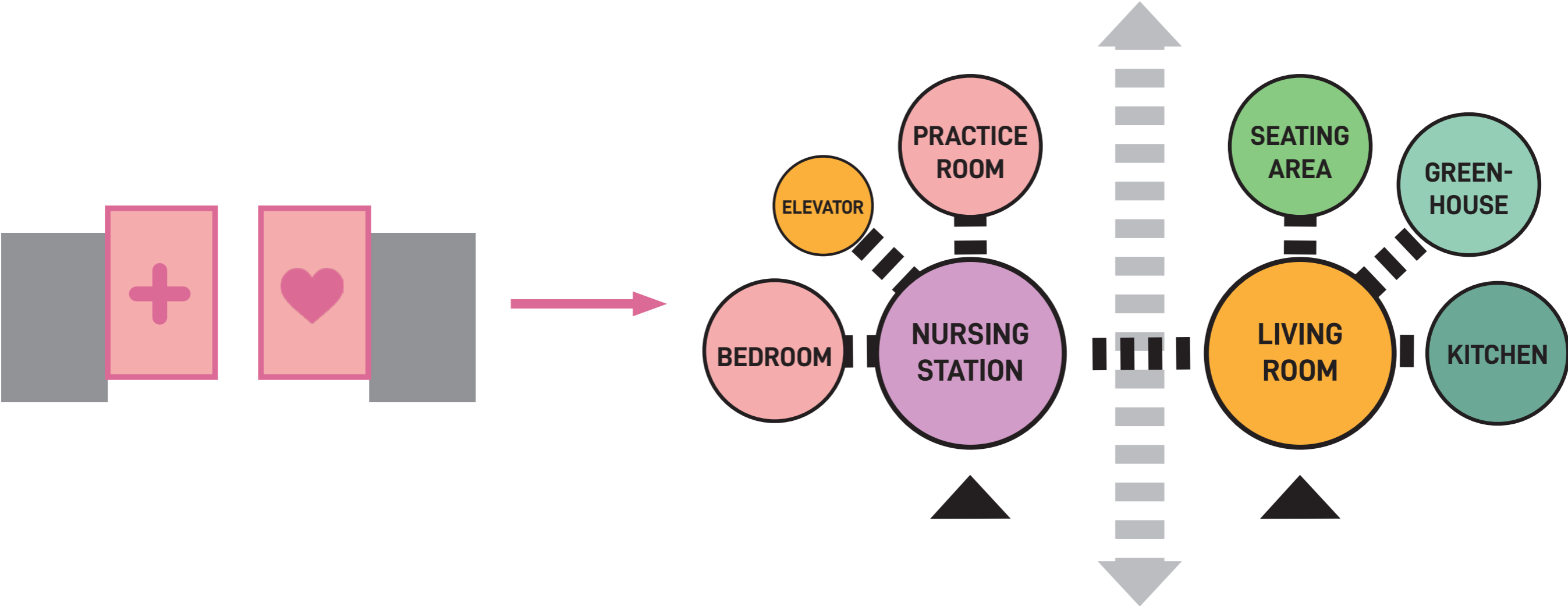


3. building as passage or gate



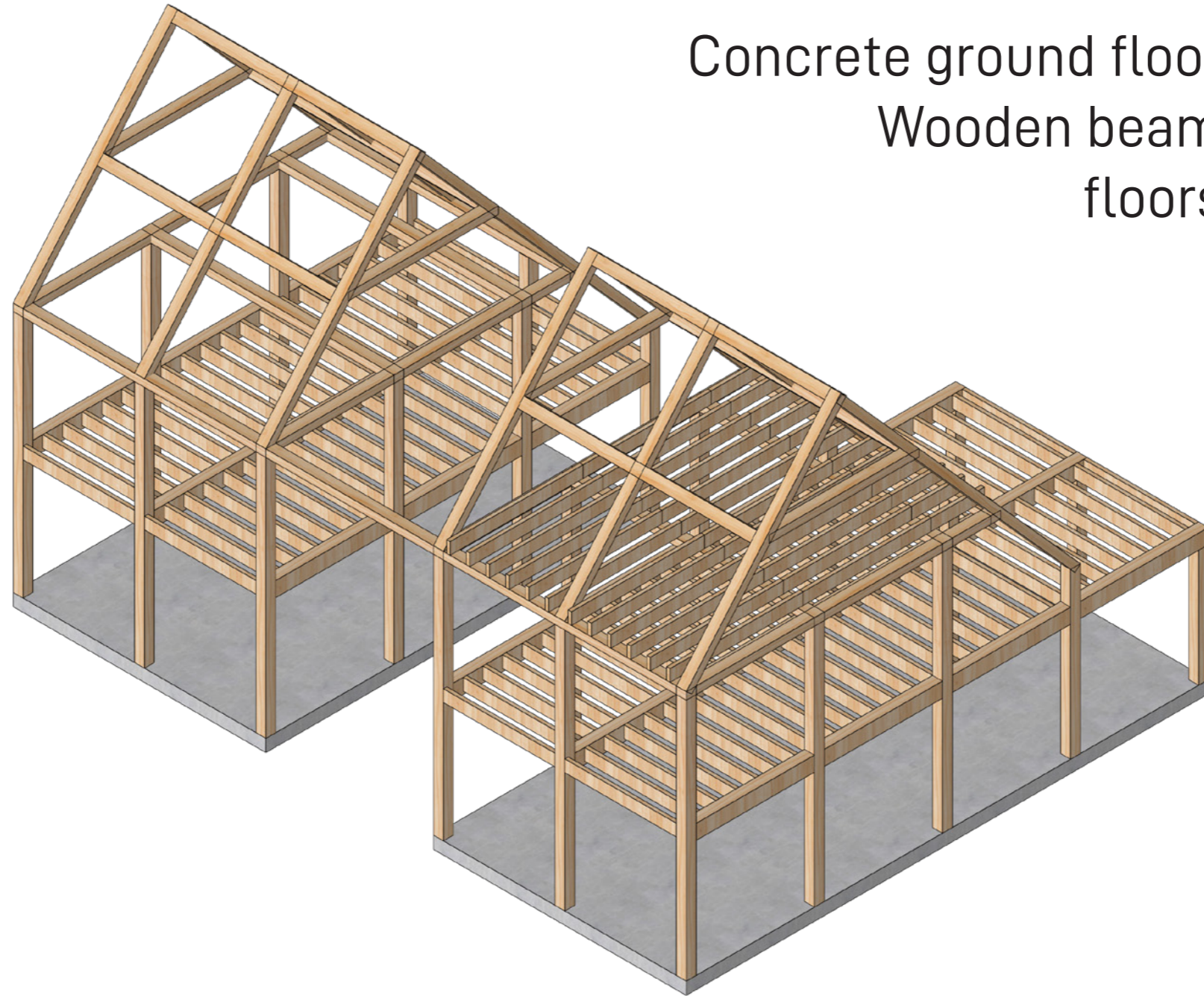
4. push back to disconnect facade

SPATIAL PROGRAM



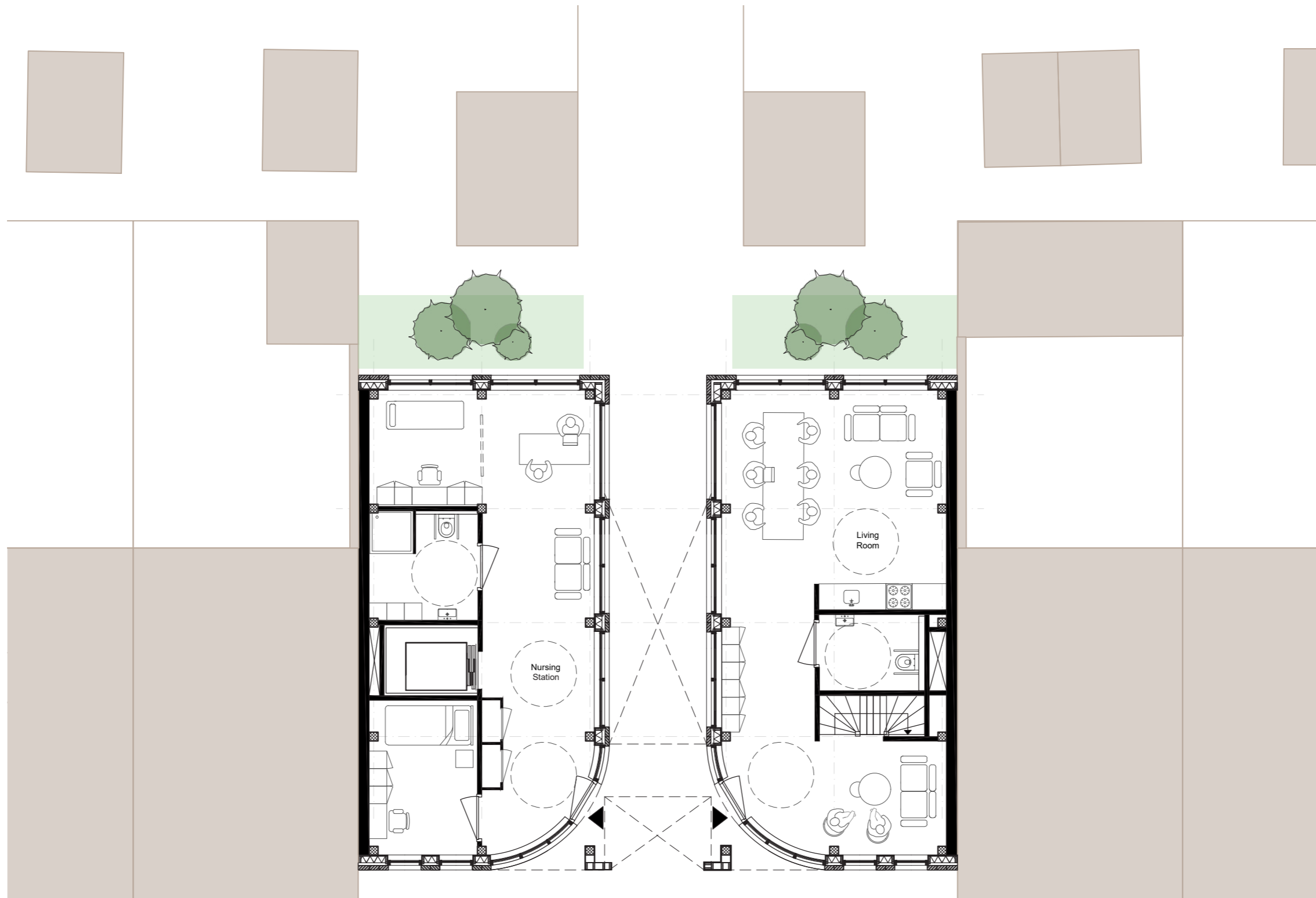
CLT STRUCTURE

Concrete ground floor
Wooden beam
floors



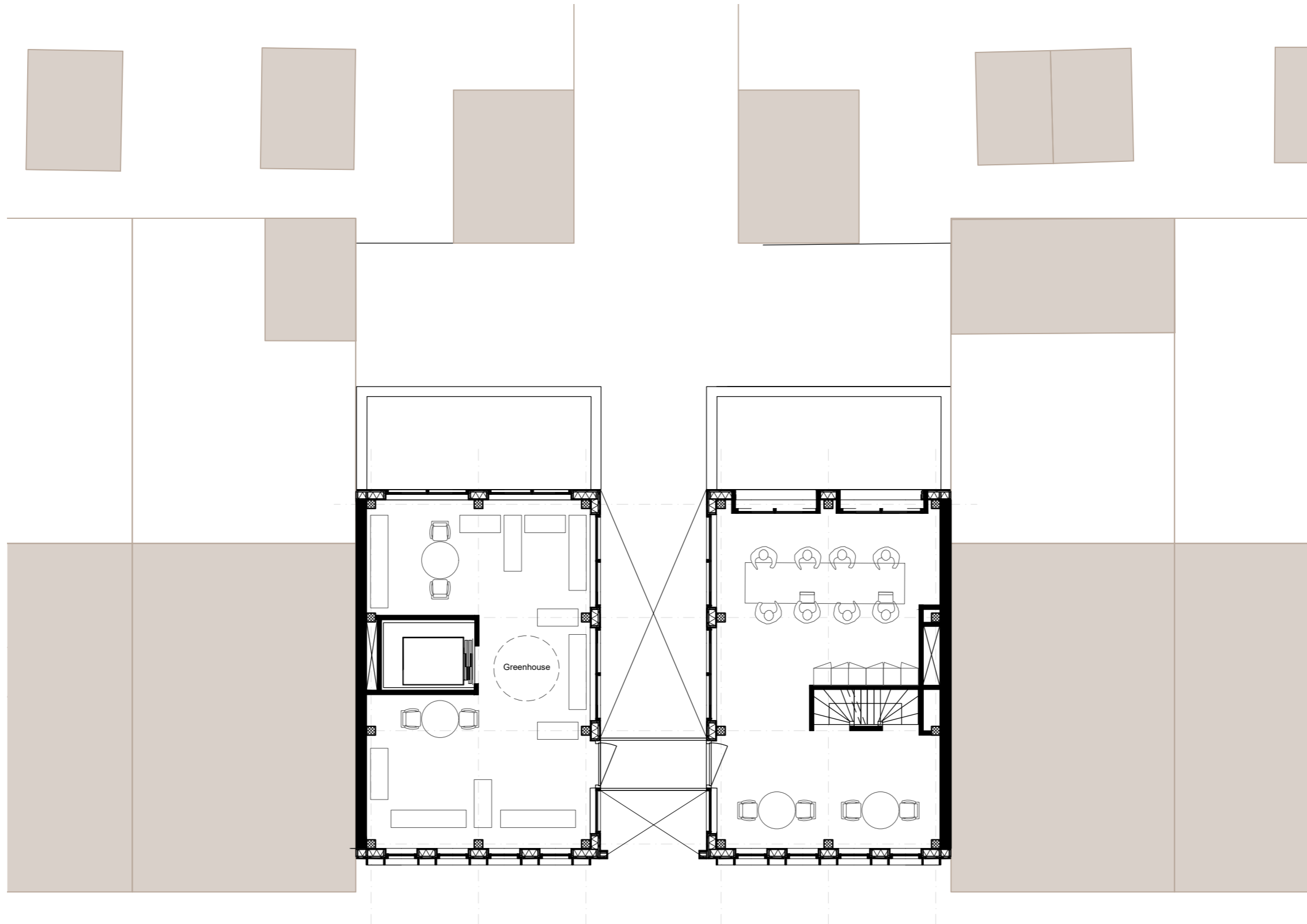
NURSING STATION

Floorplan - Ground floor



NURSING STATION

Floorplan - First floor

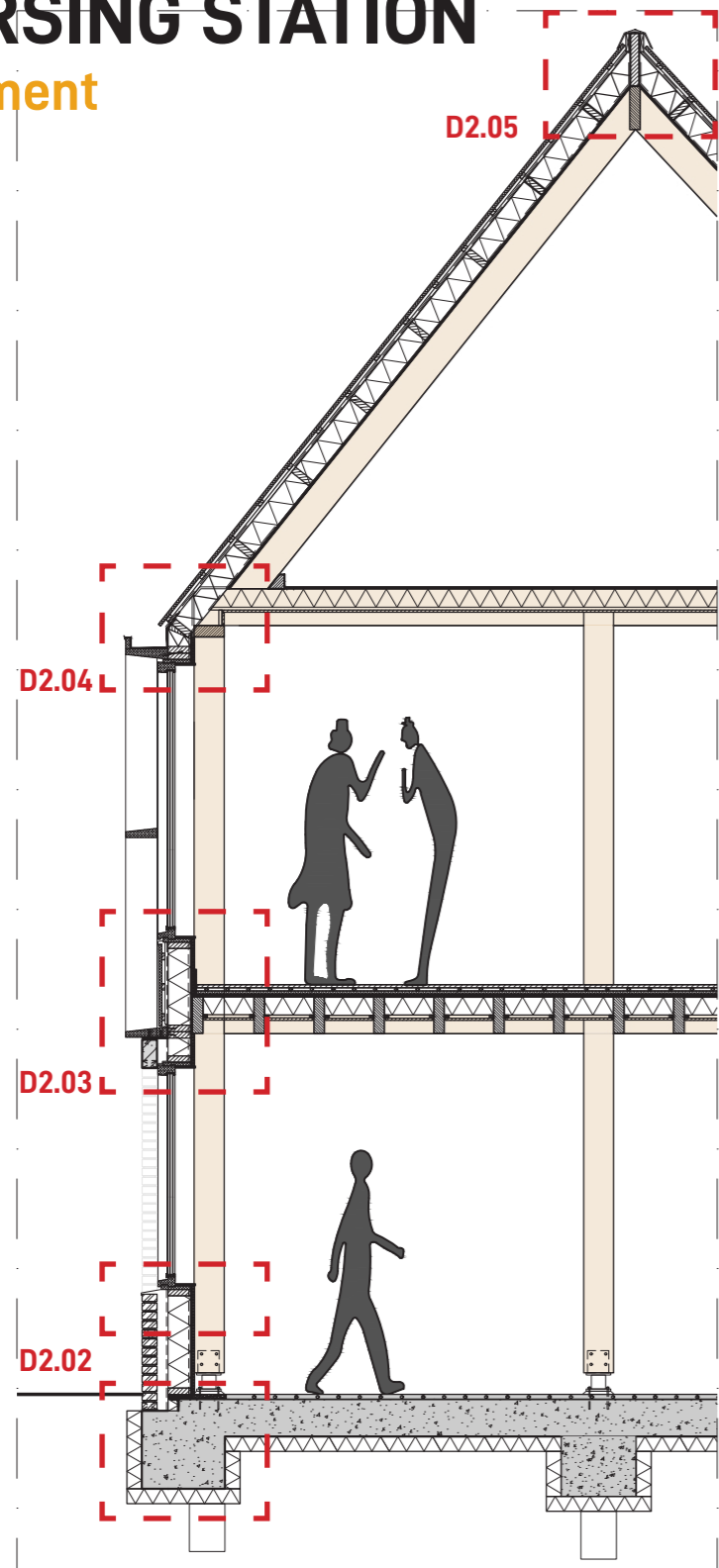


IMPRESSION NURSING STATION

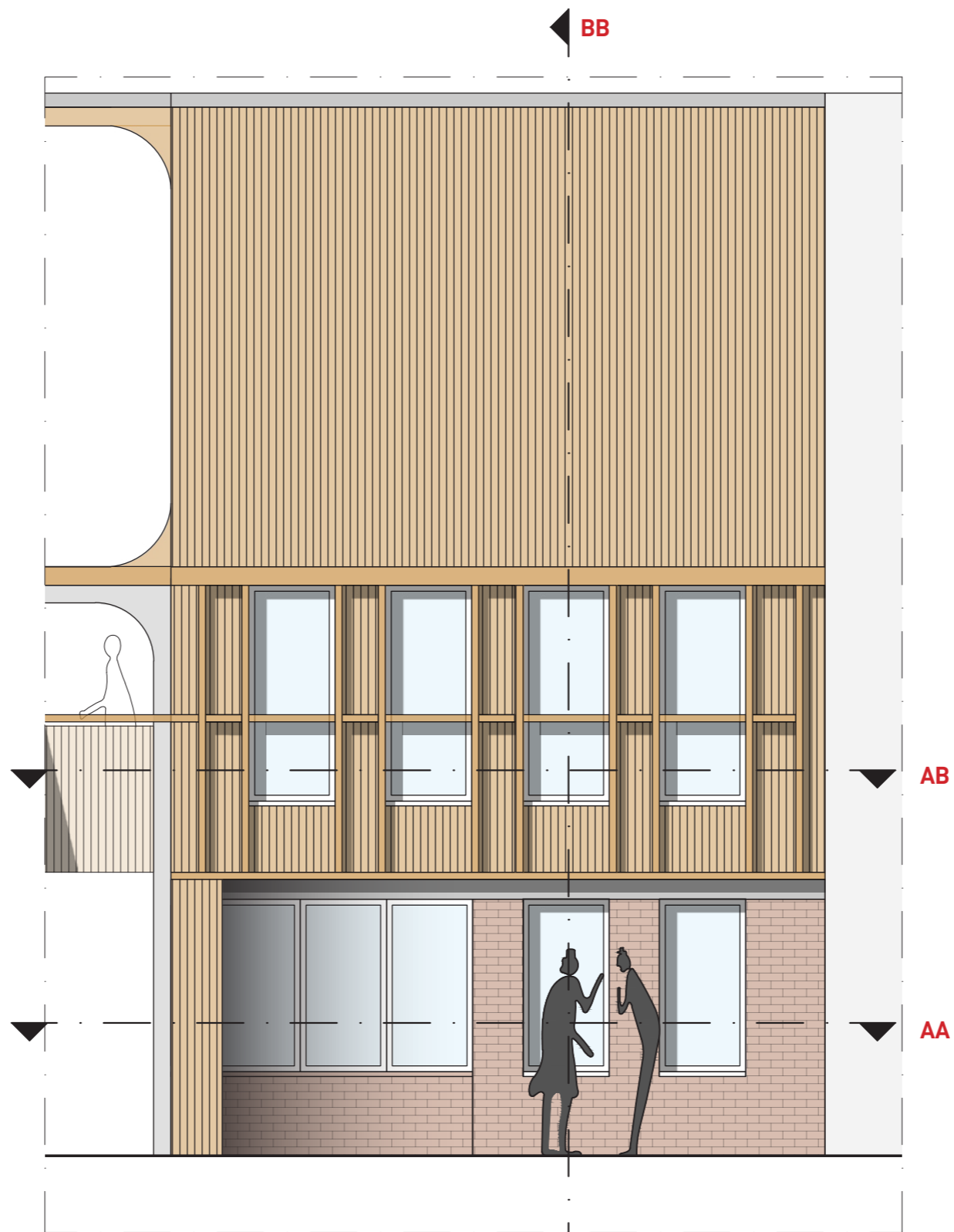


NURSING STATION

Fragment

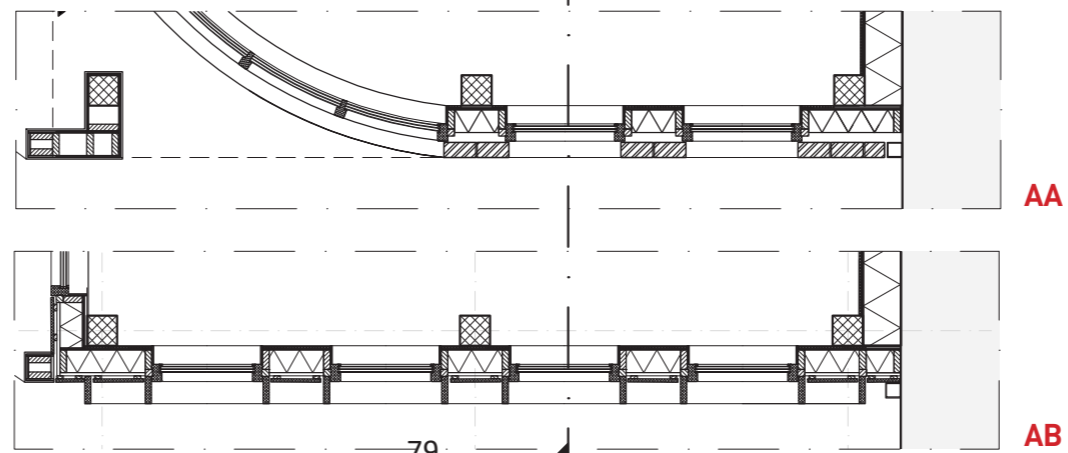


BB



AB

AA



AA

AB

NEIGHBORHOOD



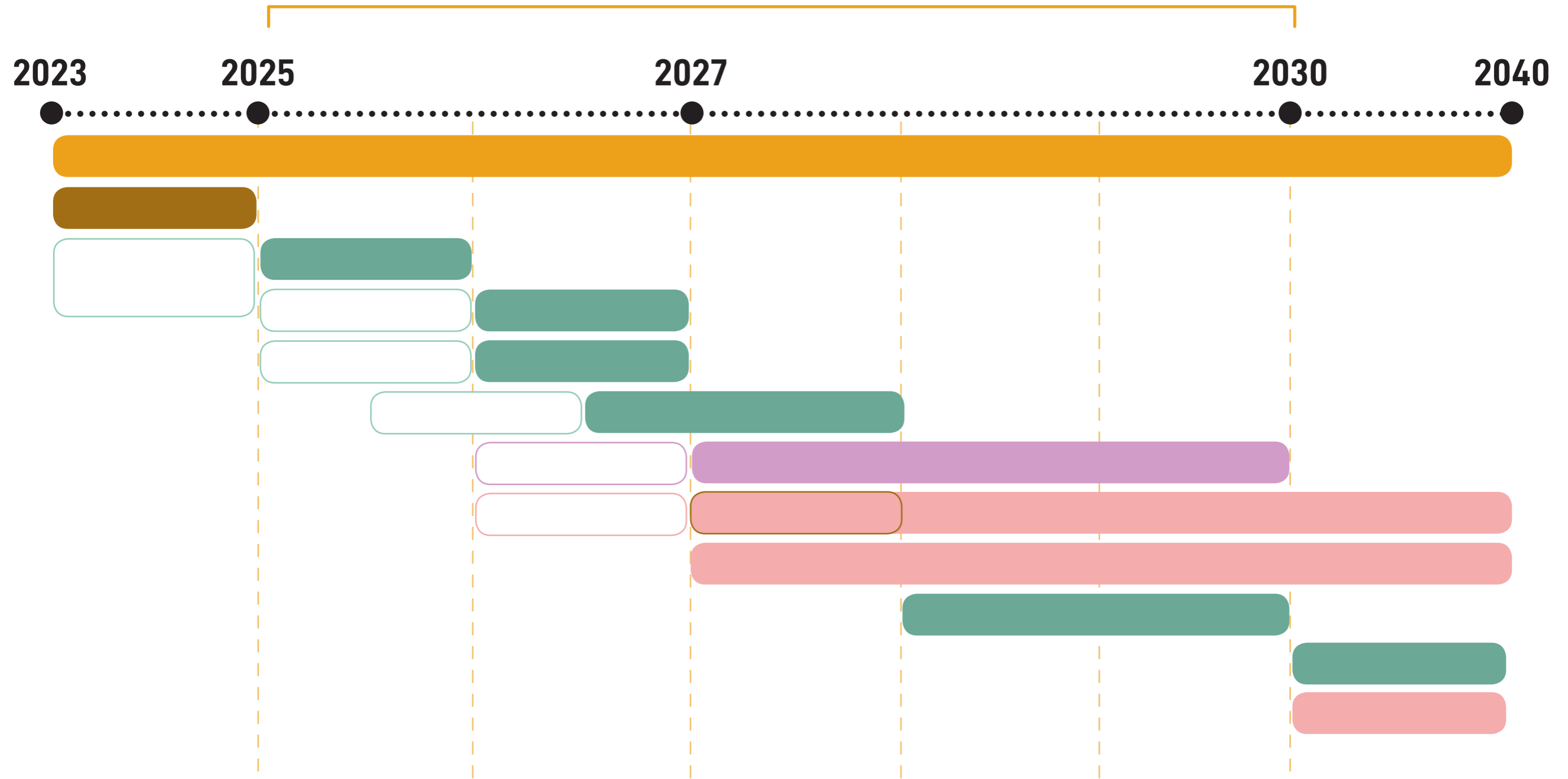
ROADMAP

SPOORWIJK

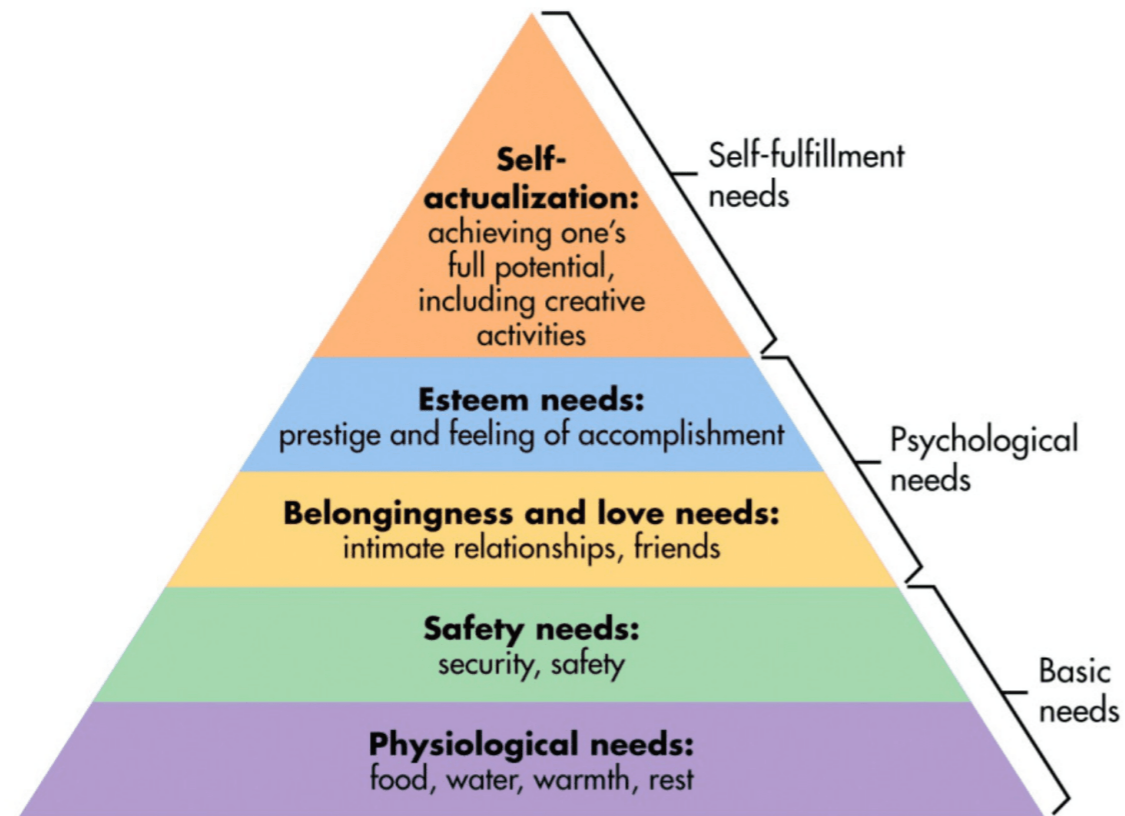


GOAL
2025 - 2040

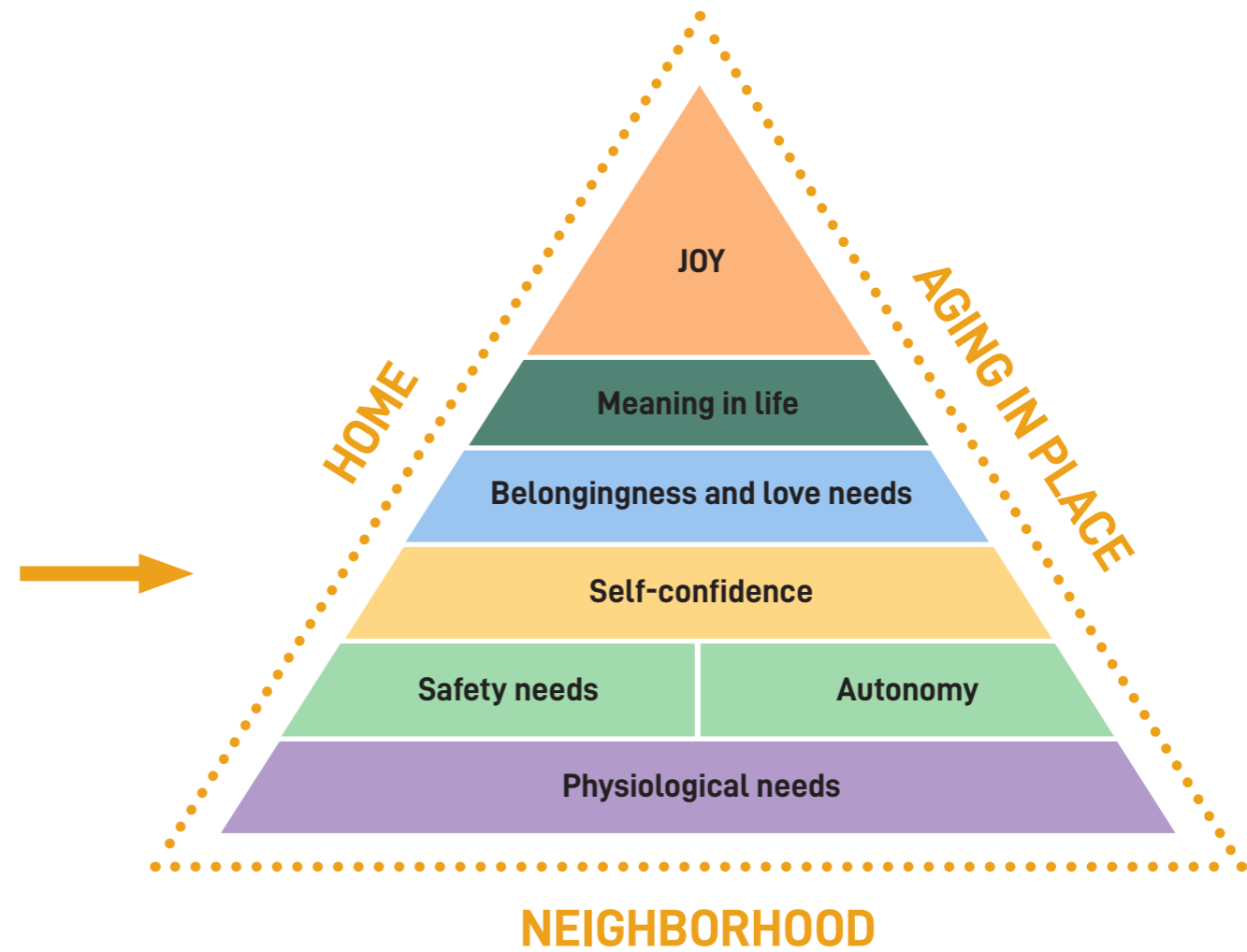
DEMENTIA-FRIENDLY SPOORWIJK IN 5 YEARS



PYRAMID THEORIES



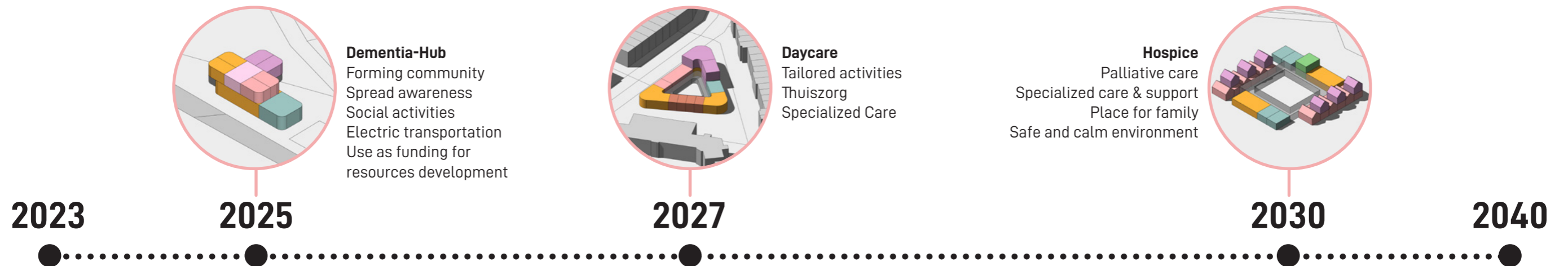
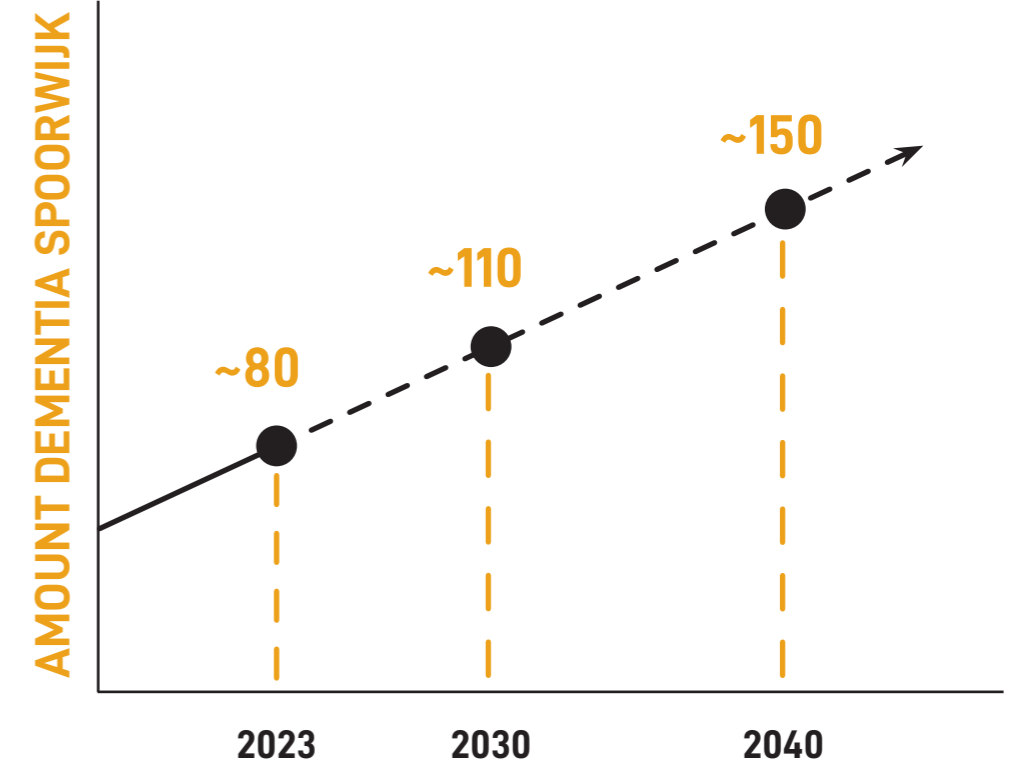
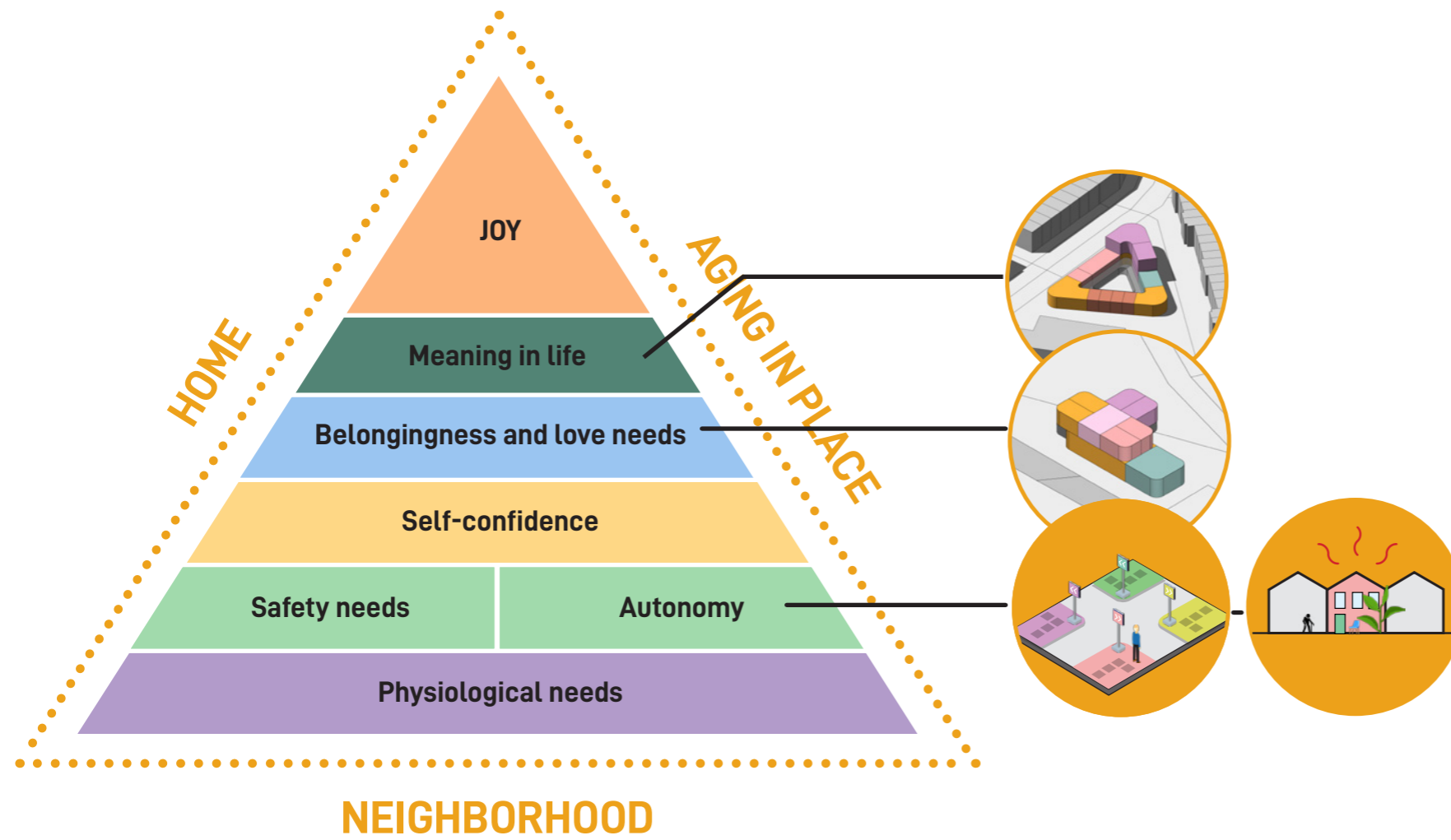
Pyramid of Maslow (1943)



Pyramid of Bugra (2023)

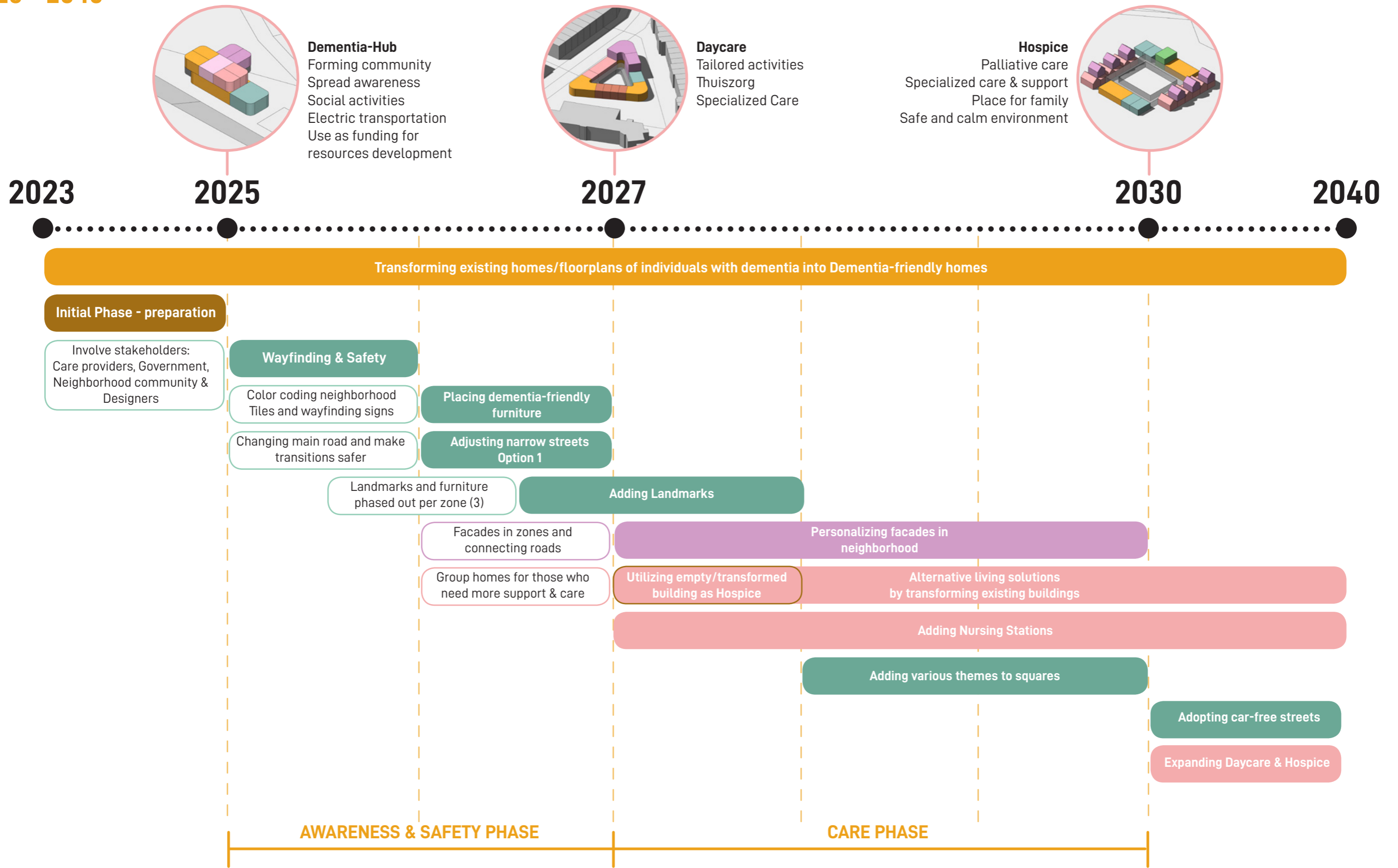
DEMENTIA-FRIENDLY ROADMAP

Pyramid of Maslow



DEMENTIA-FRIENDLY ROADMAP

2025 - 2040



THANK YOU!

BUGRA ATCIYURT



SOURCES

Front page illustration:

https://www.freepik.com/premium-vector/confused-old-male-character-forget-address-lost-city-isolated-white-background-forgetful-senior-man-with-alzheimer-disease-senility-dementia-concept-cartoon-people-vector-illustration_25487274.html

Pyramid of Maslow:

Maslow's hierarchy of needs, represented as a pyramid with. (n.d.). ResearchGate. https://www.researchgate.net/figure/Maslows-hierarchy-of-needs-represented-as-a-pyramidwith-the-more-basic-needs-at-the_fig3_324279637