

HET VERTICALE HOF

Omgeving zorgt voor ouderen

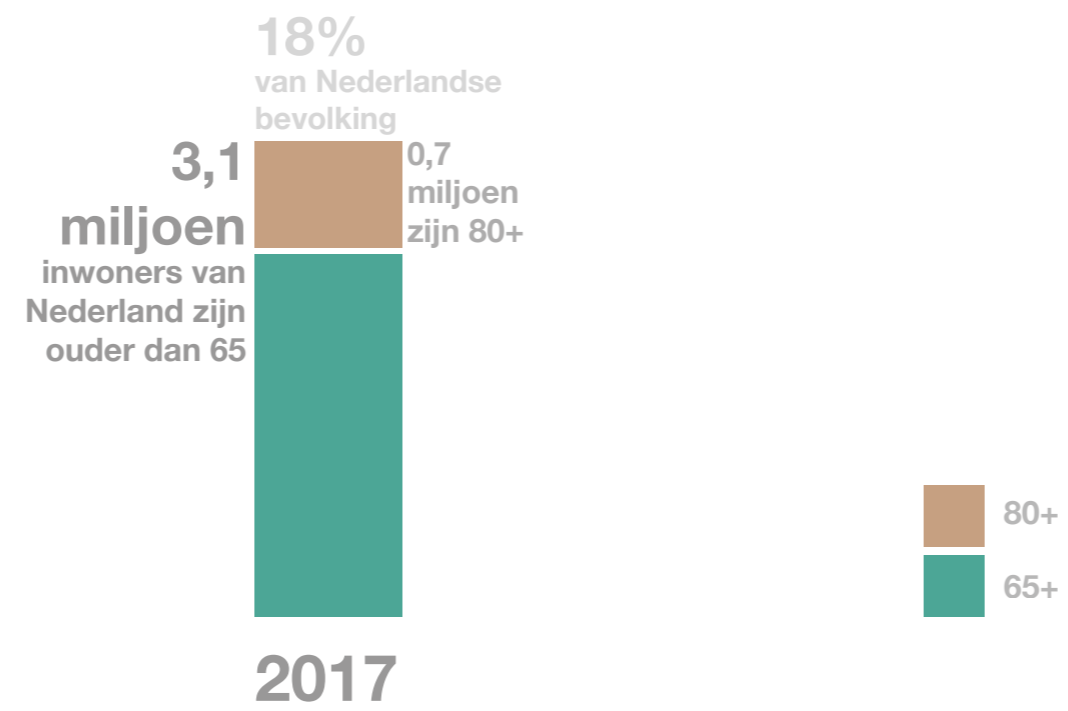


Nora Hartman
P5 - 03.07.2018
Health@BK

Personal motivation

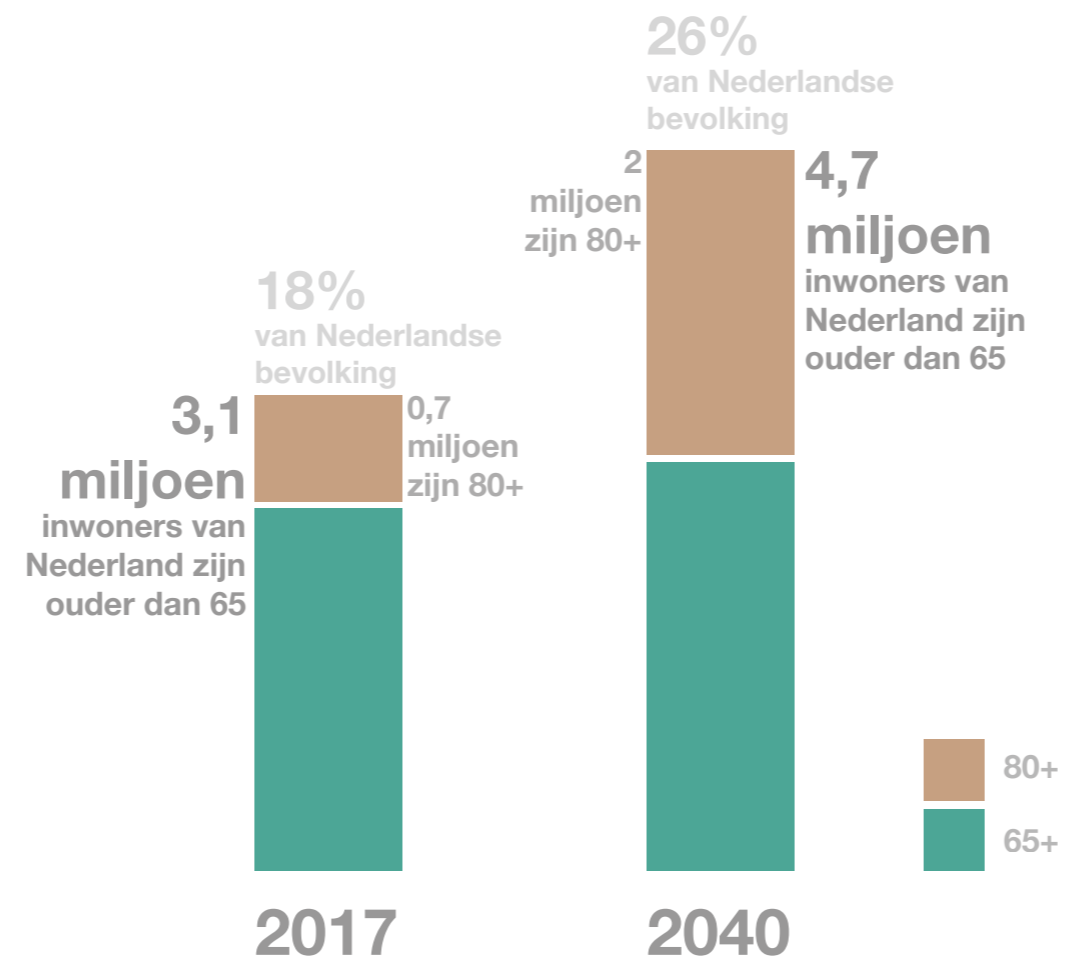


Relevance



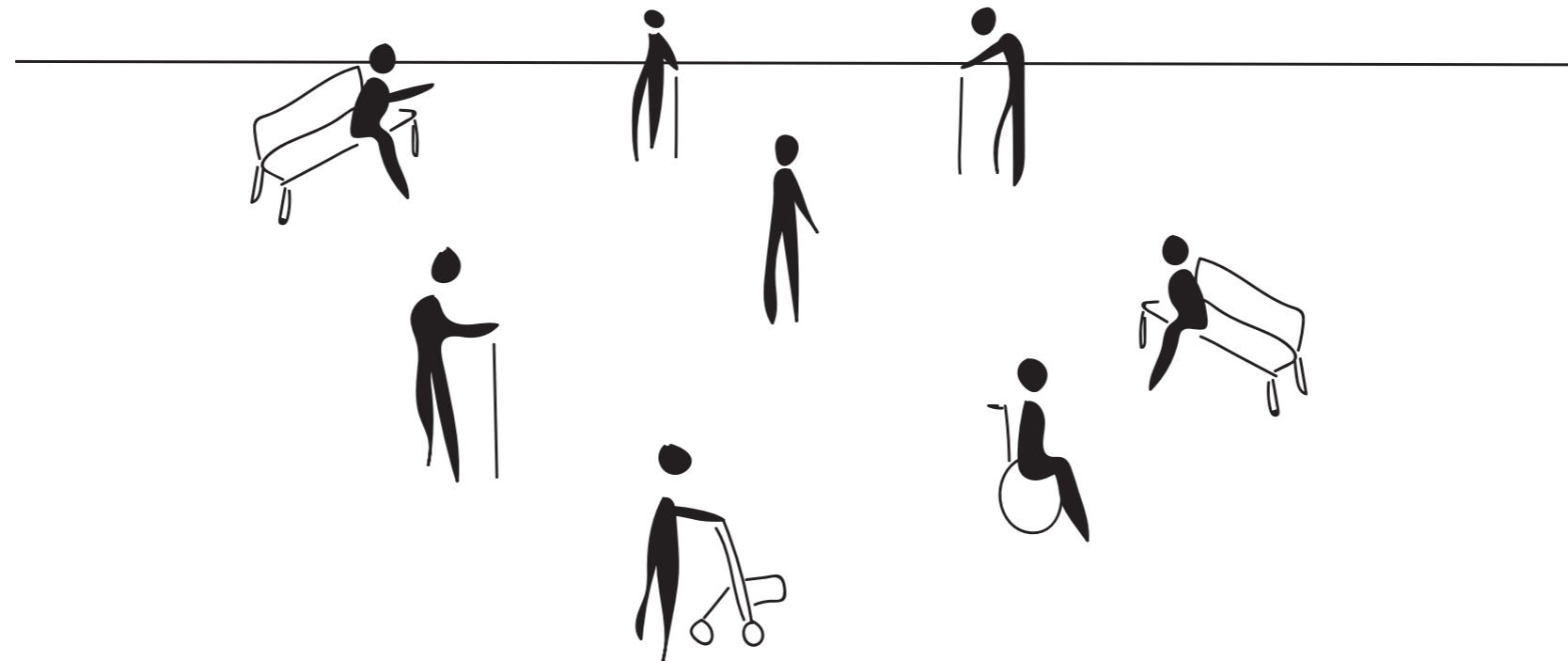
ageing

Relevance



ageing

Relevance



ageing

Relevance



increasing need of care

Relevance



shortage of formal care

- 1) too few young people 2) too little money 3) extramuralisation

Relevance



*“Van iedereen die dat kan,
wordt gevraagd verantwoordelijkheid te nemen
voor zijn of haar eigen leven en omgeving”*

Relevance



‘zelfredzaam’

people are asked to take care of themselves

Relevance



‘zelfredzaam vs samenredzaam’

they can appeal to their social network when they need support

Relevance



‘zelfredzaam vs samenredzaam’

they can appeal to their social network when they need support

Research

Which architectural tools can be used to fulfil the psychosocial needs of the social network of elderly in need of care, so providing informal care will be supported and strengthened?

Interdisciplinary approach



Architecture and Management in the Built Environment

Interdisciplinary approach



Documentary: “*Jeroen zijn zoektocht door het zorglandschap*”

Research



Needs of social network
interviews

Research



Needs of social network
interviews



Case study children's hospital
observations and interviews

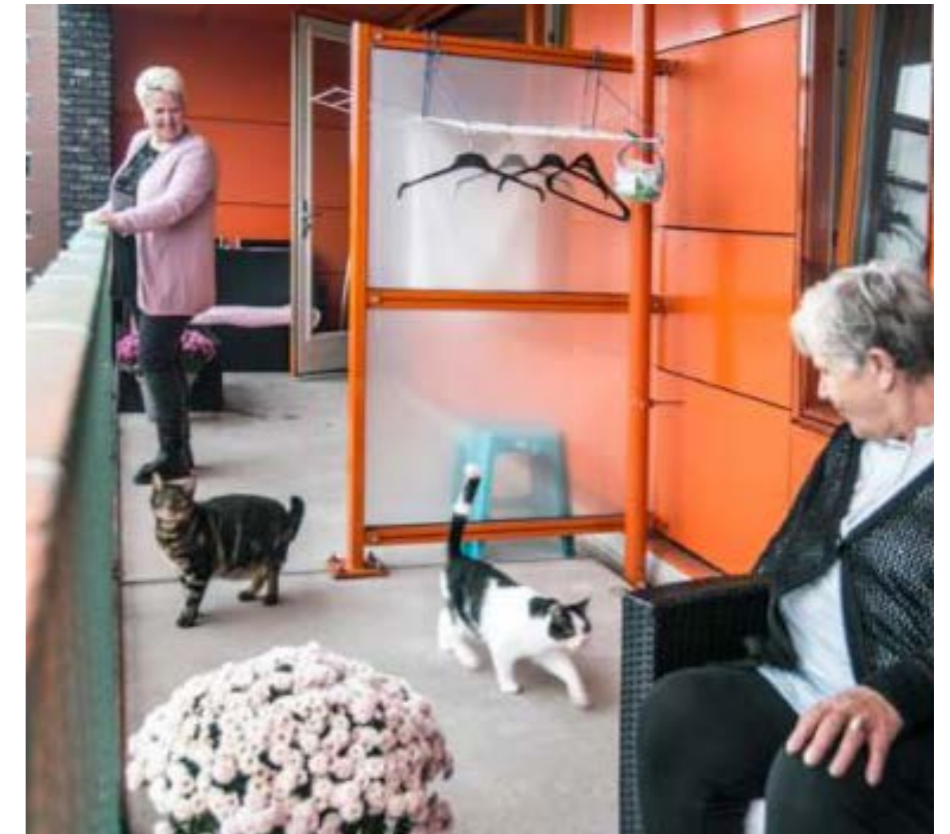
Research



Needs of social network
interviews



Case study children's hospital
observations and interviews



Existing projects
typological research
'kangoeroewoning' en
'mantelzorgwoning'

Six needs of the social network



Closeness



Dignity



Privacy



Consults
formal - informal care



Daily patterns



Contact with thirds



Dignity

Six needs of the social network

“Ik kan me nog herinneren dat je bij verpleeghuizen binnenkomt en er meteen alles van je wordt overgenomen. [...] Dan ga je meteen ook weer in die passieve rol, terwijl ik denk dat het juist goed is om die actieve rol te houden.”

- Informele zorgverlener van zorgbehoevende oudere



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“We proberen zo veel mogelijk de regie bij ouders neer te leggen. Dat ouders hier zo veel mogelijk ouder kunnen zijn, hun manier van opvoeden kunnen doorzetten en controle kunnen houden in de periode in het ziekenhuis.

[...]

We proberen ook echt in de gaten te houden dat ouders niet overbelast raken.”

- Pedagogisch medewerker kinderziekenhuis



Daily patterns

Six needs of the social network

“Ik vind het altijd heel fijn dat we naar buiten kunnen. Dan lopen we even naar het dorp, of in de rolstoel. En dan lekker in de zon, dan genieten we. Dat maakt het veel minder zwaar dan als we binnen moeten blijven door het weer.”

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- Informele zorgverlener van zorgbehoevende oudere

“En dan ben je plots in het ziekenhuis, uit je eigen leven gehaald. Fijn om een plek te hebben waar het mogelijk is om mijn dagelijkse dingen te kunnen doen en even afleiding te zoeken wanneer ik niet bij mijn dochtertje kan zijn.”

- Informele zorgverlener in kinderziekenhuis

Architectural tools stimulating informal care



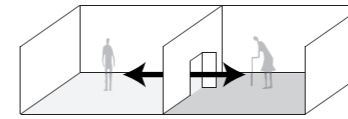
Need for closeness



Stay overnight in the house of the elderly



Stay overnight in a guest room outside the house of the elderly



Connected via the connecting door



Need for dignity



Inviting entrance (feel welcome)



Informal interior and human scale



Mixed generations



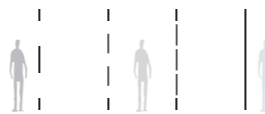
Possibility to choose



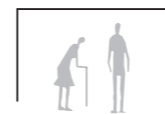
Crisis shelter



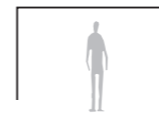
Need for privacy



Levels of privacy (visual and auditory)



Space where informal caregiver can be alone with elderly



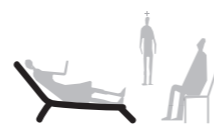
Space where informal caregiver can be alone



Need for consultations foral and informal care



Professionals are easy to reach



Space for social network in treatment room



Need for daily patterns



Stimulate daily activities



Daylight



Accessible outside space



Public functions in the neighborhood



Need for contact with thirds



Stimulate meetings with fellow-relatives



Make shared functions with other elderly visible



Accomodate or treat a diverse group of people



Stimulate unplanned meetings

Architectural tools stimulating informal care



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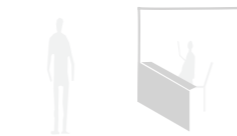
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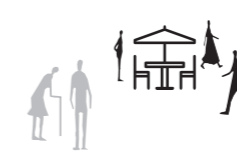
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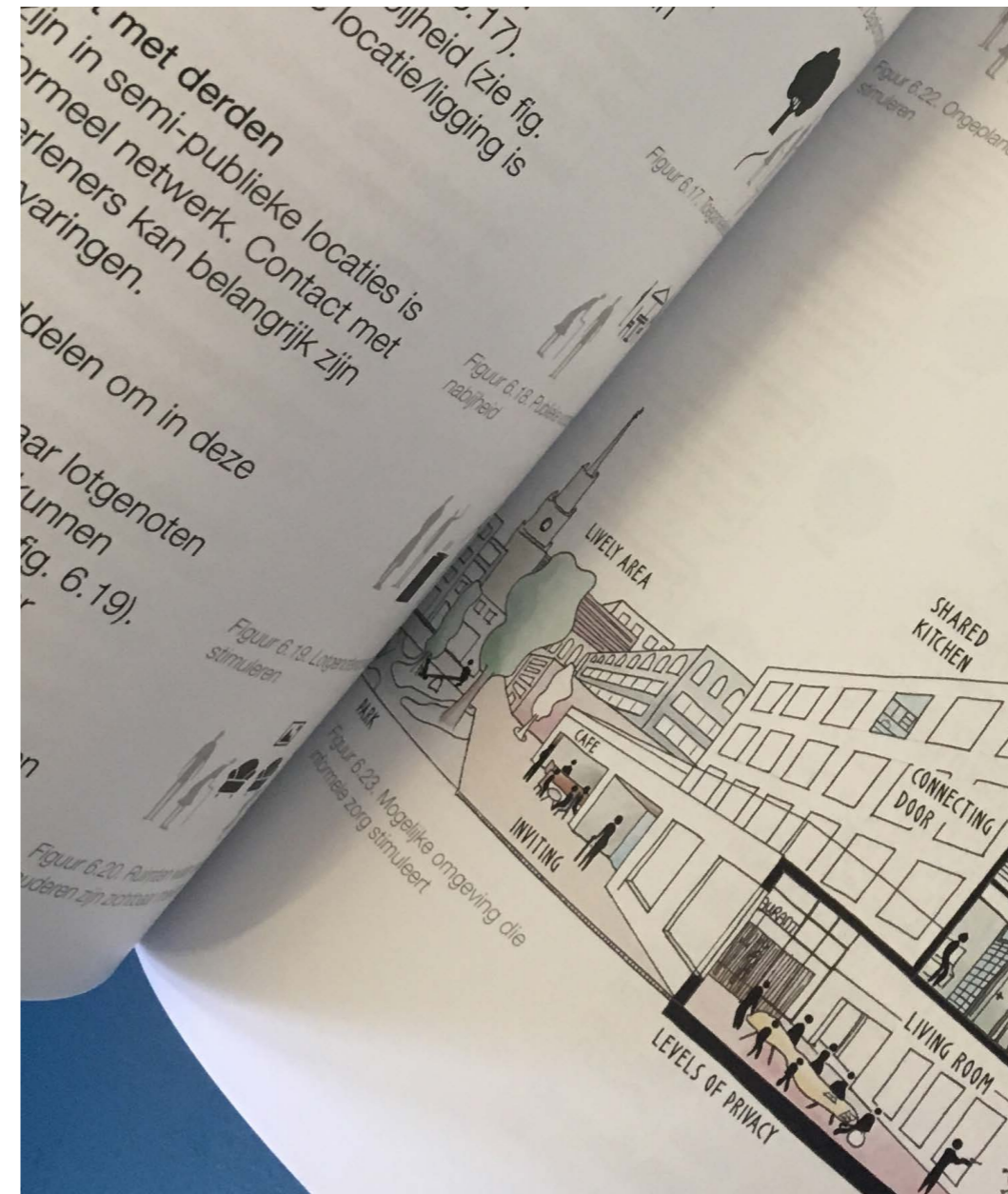
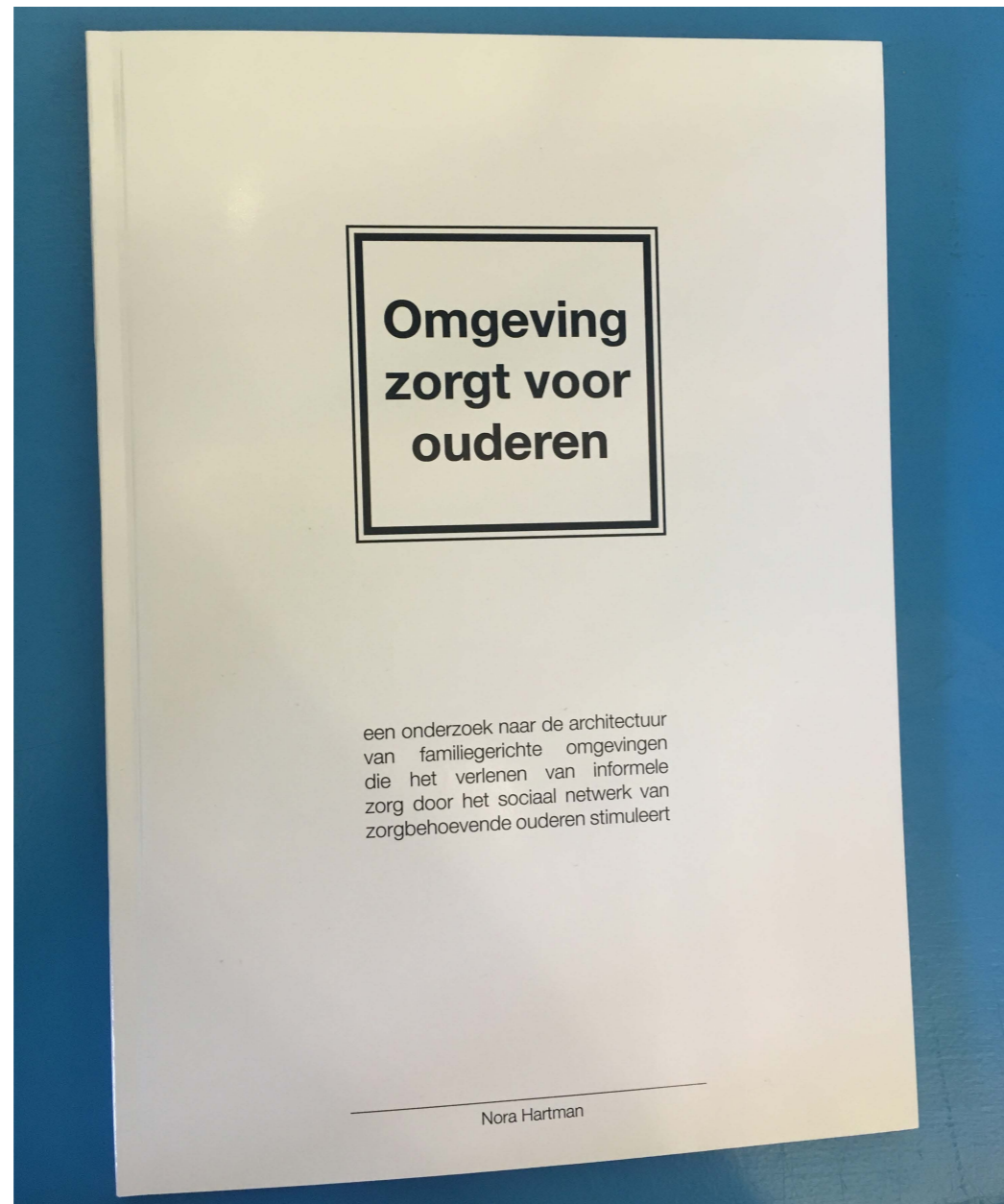


Accomodate or treat a diverse group of people



Stimulate unplanned meetings

Architectural tools stimulating informal care



Final Design



Welkom in *'Het Verticale Hof'*

Nieuw Delft - Spoorzone



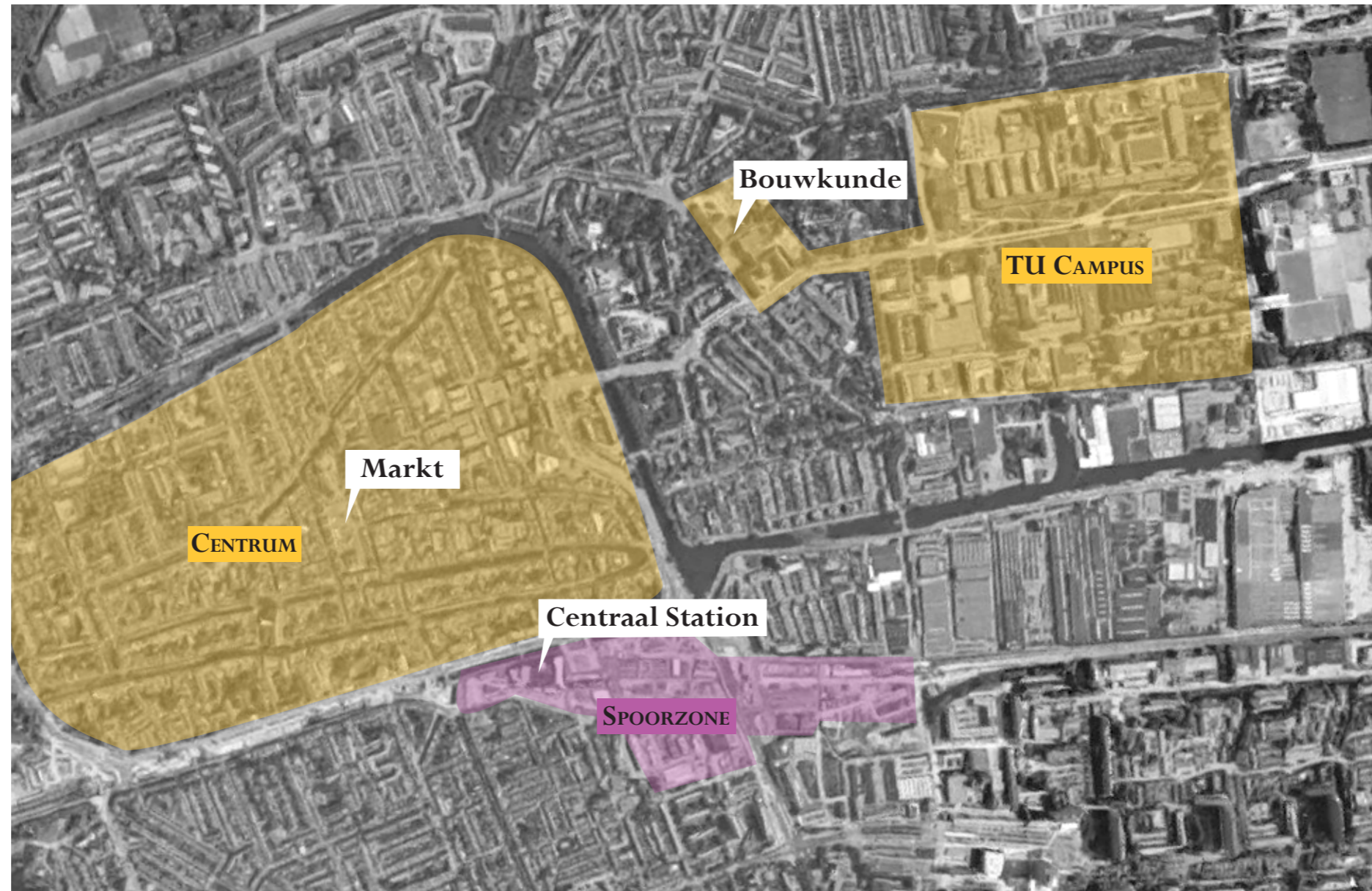
Nieuw Delft - Spoorzone



Nieuw Delft - Spoorzone



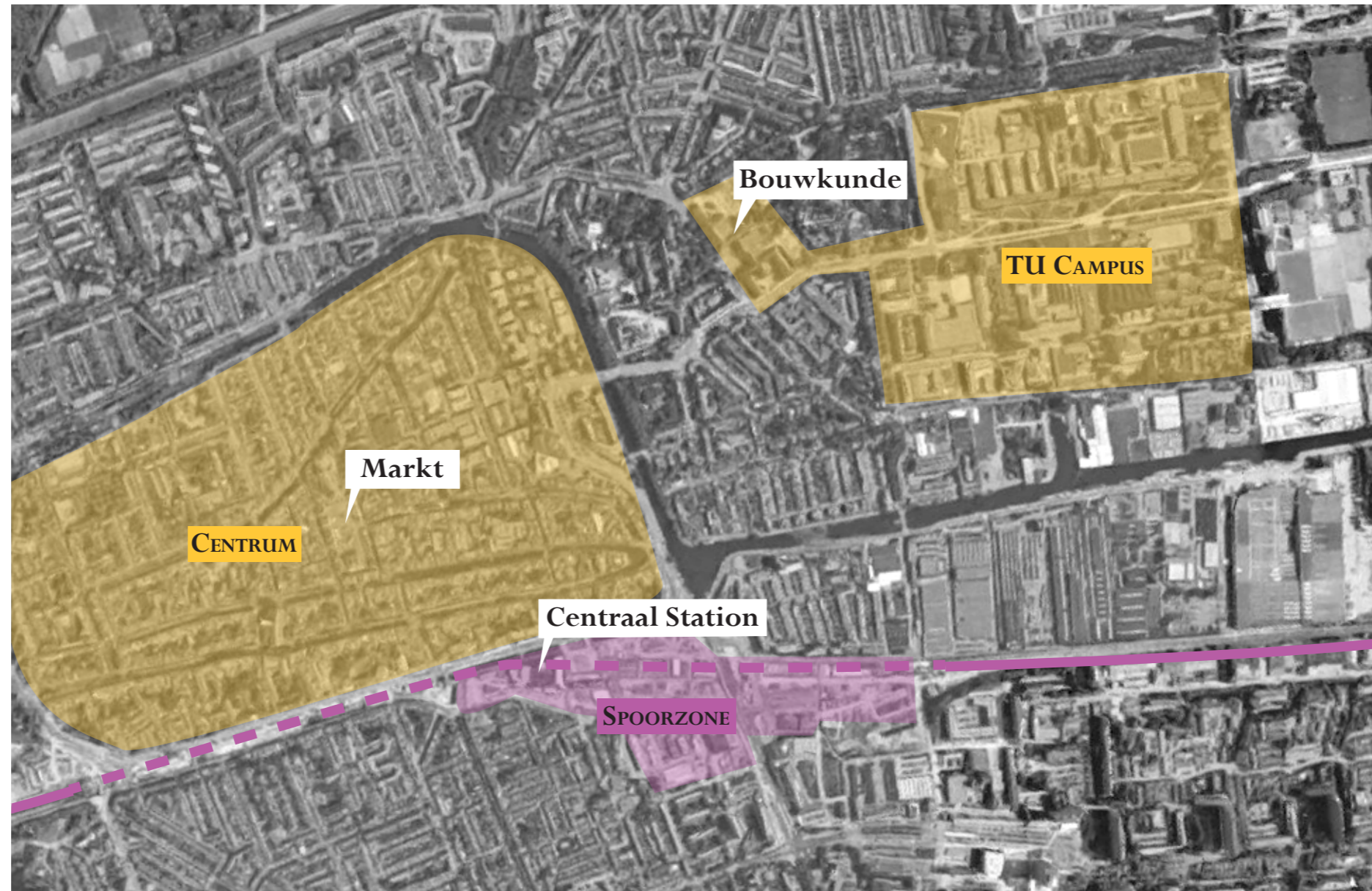
Nieuw Delft - Spoorzone



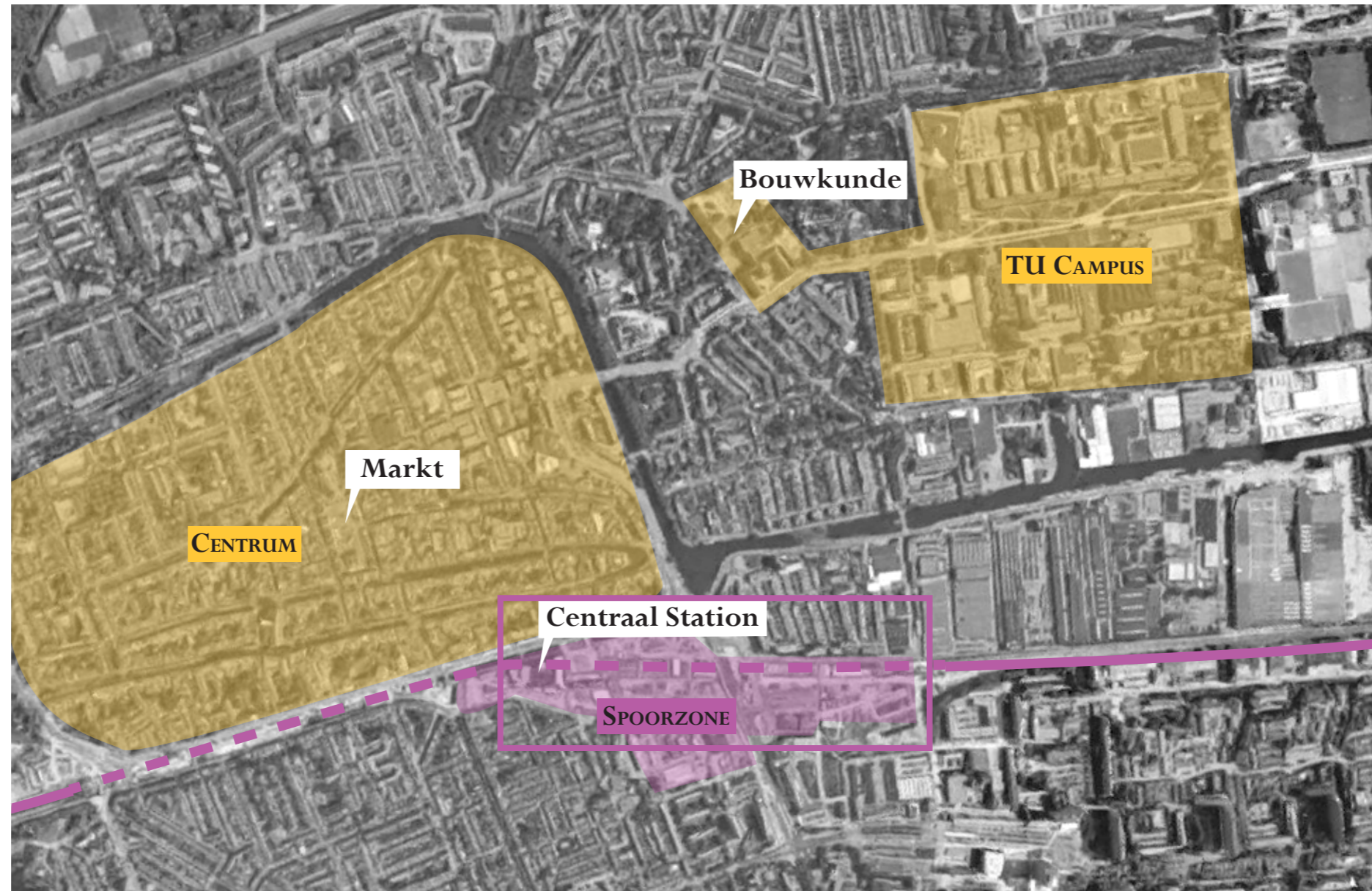
Nieuw Delft - Spoorzone



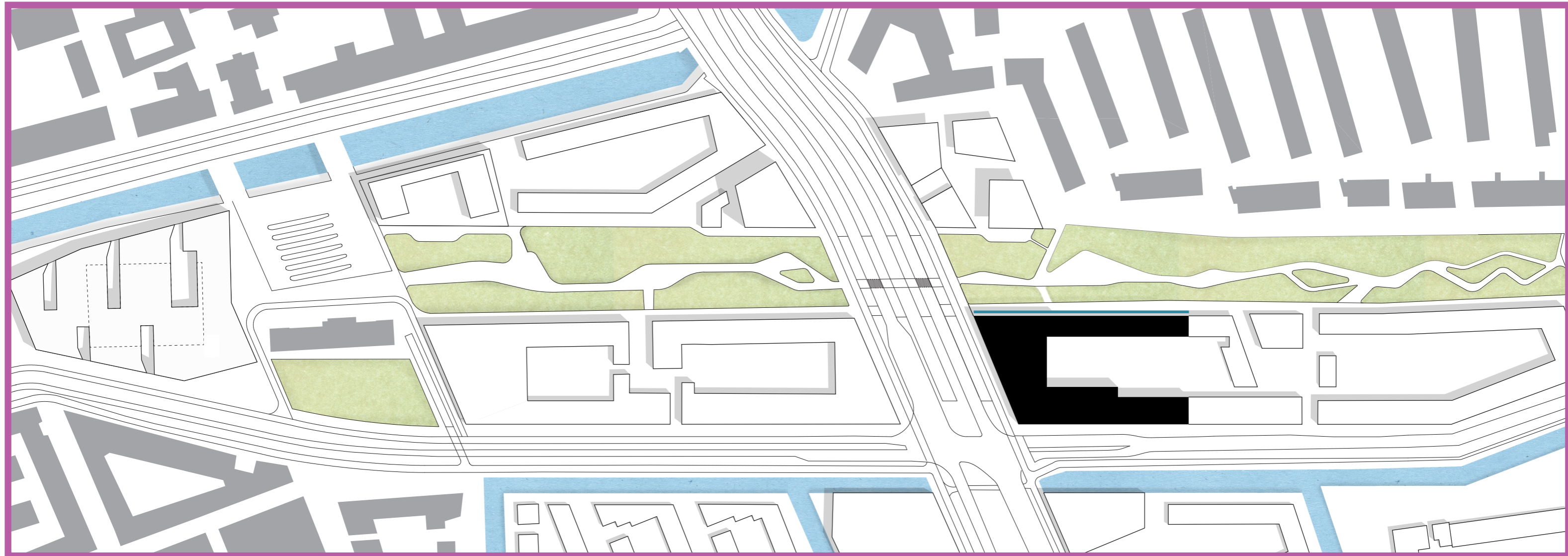
Nieuw Delft - Spoorzone



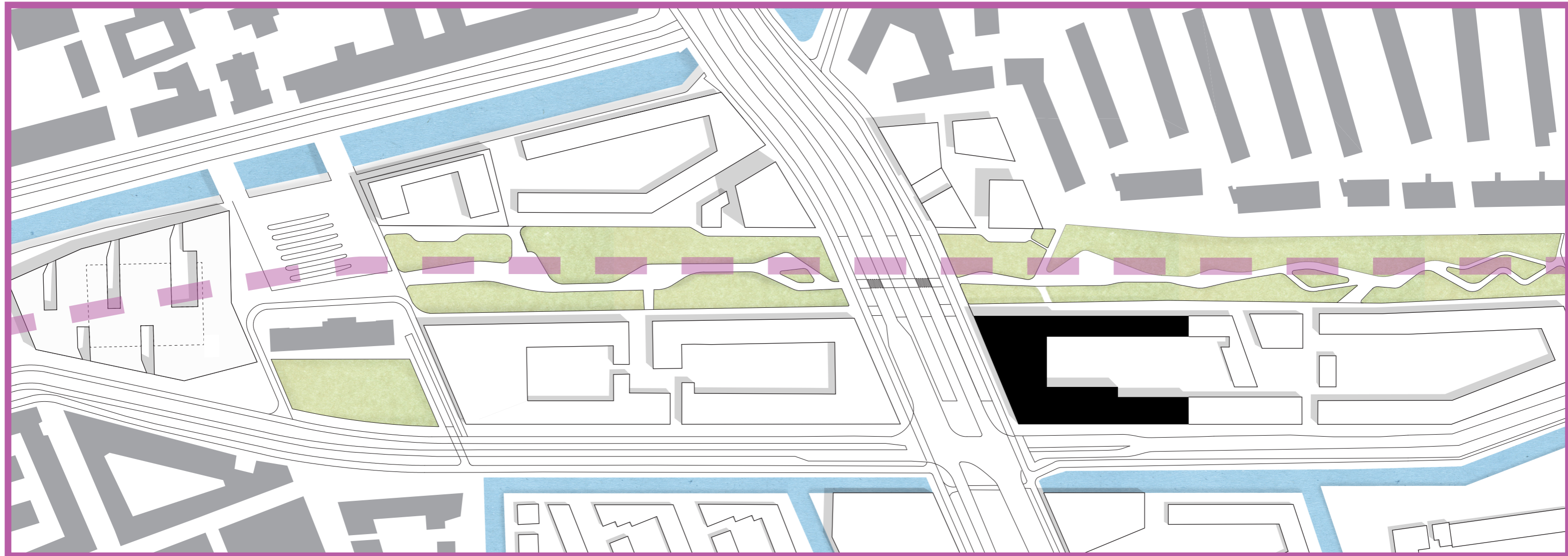
Nieuw Delft - Spoorzone



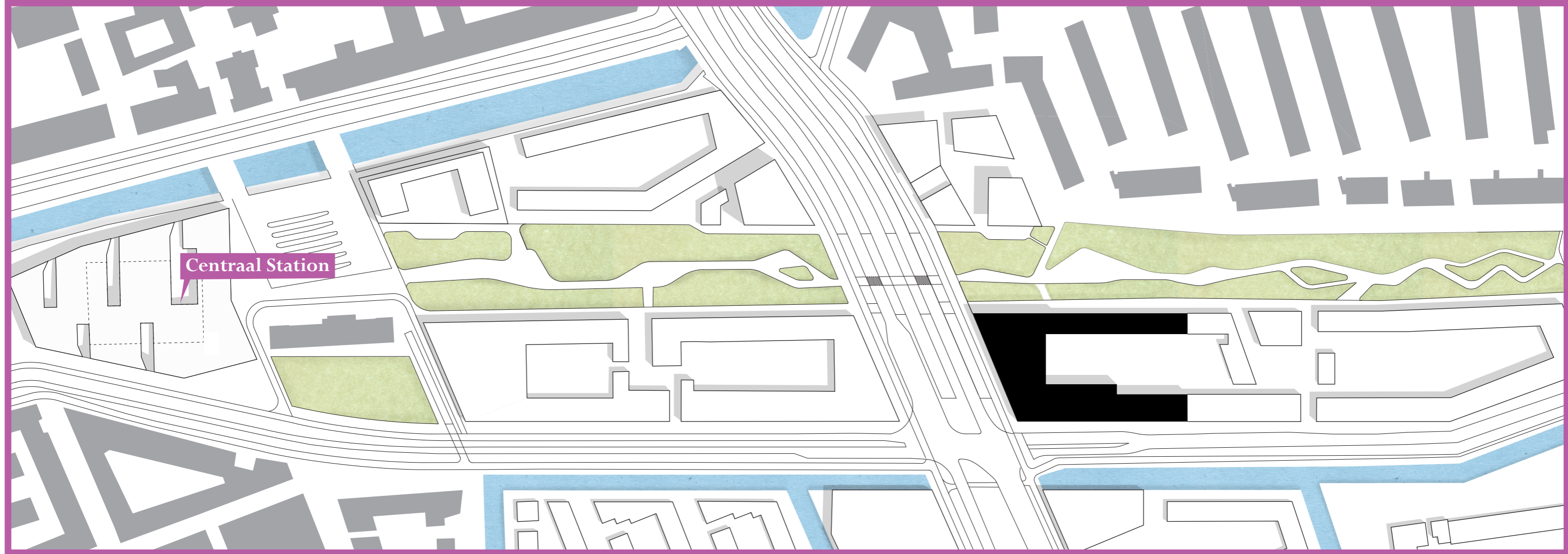
Nieuw Delft - Spoorzone



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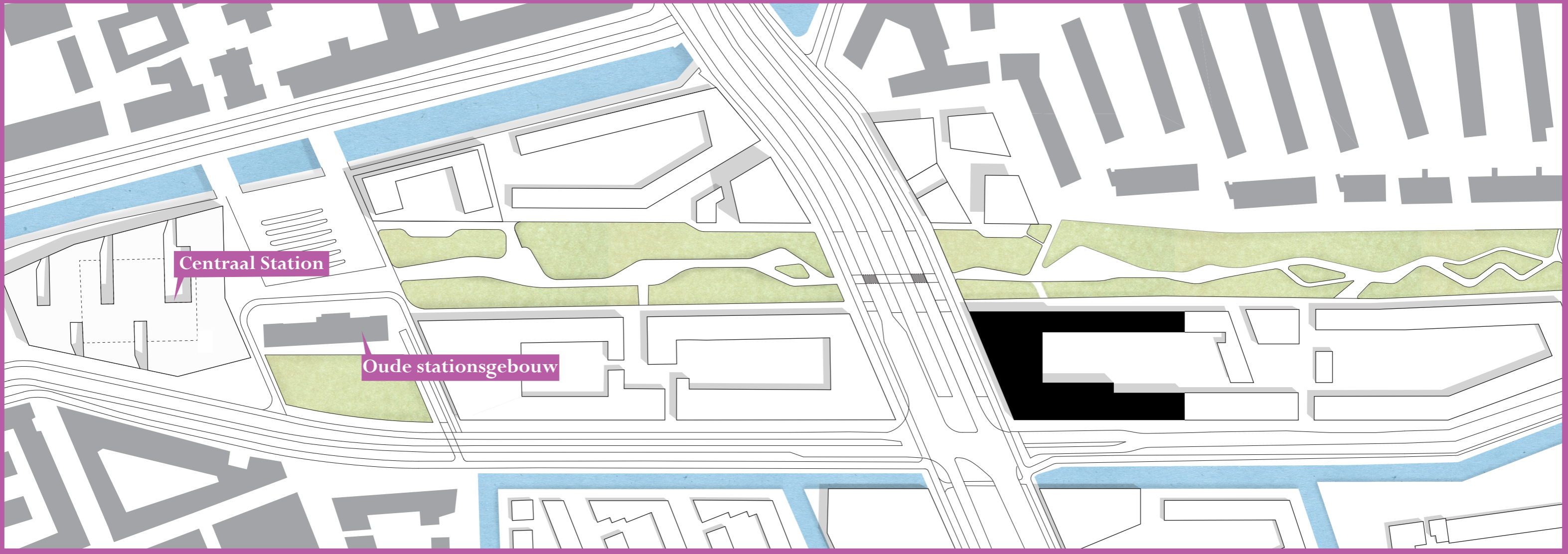
Nieuw Delft - Spoorzone



Centraal Station



Nieuw Delft - Spoorzone

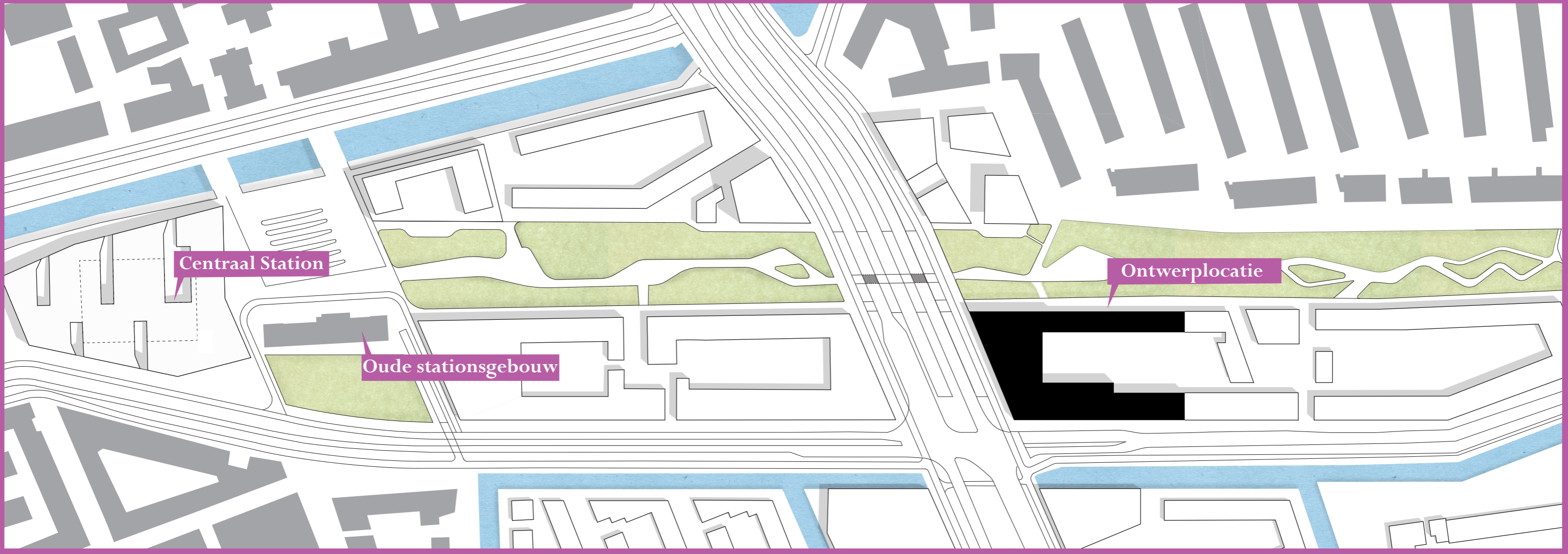


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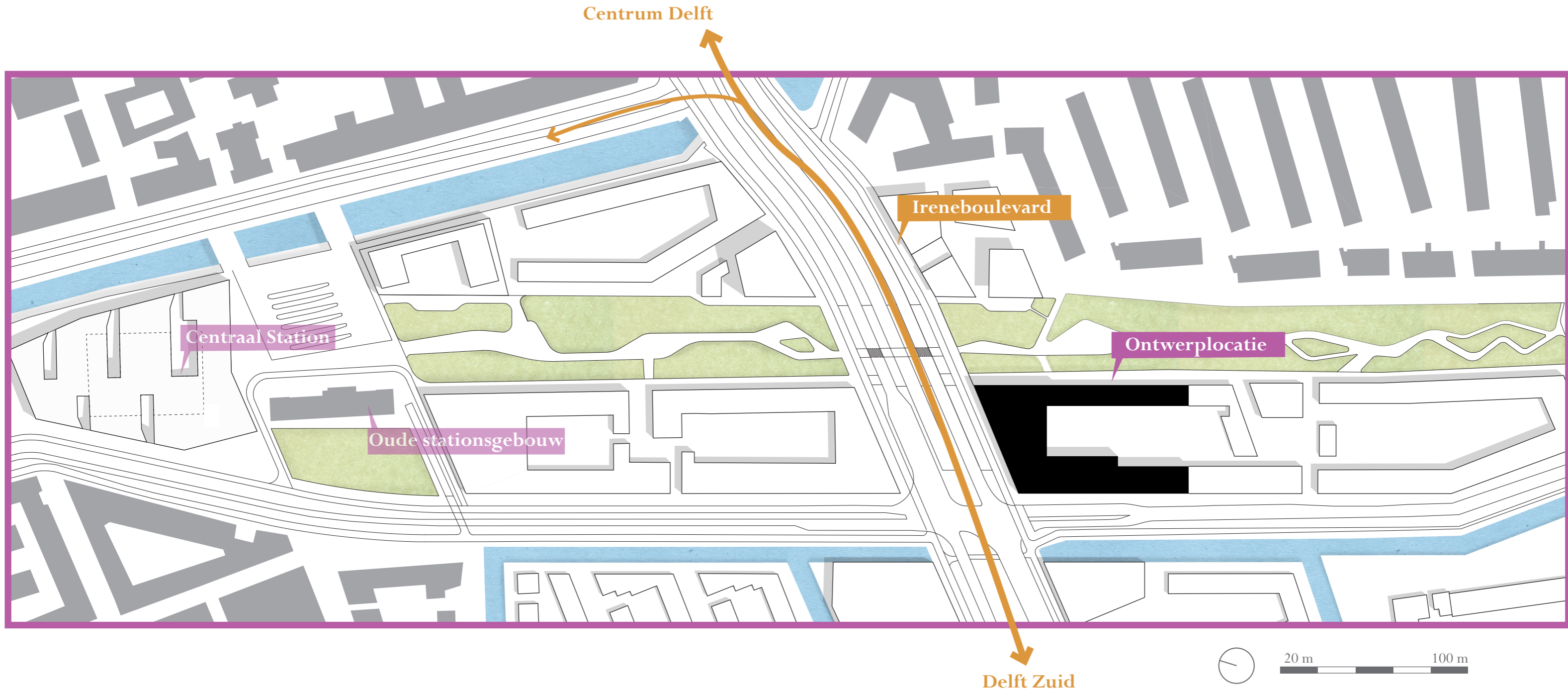
Oude stationsgebouw



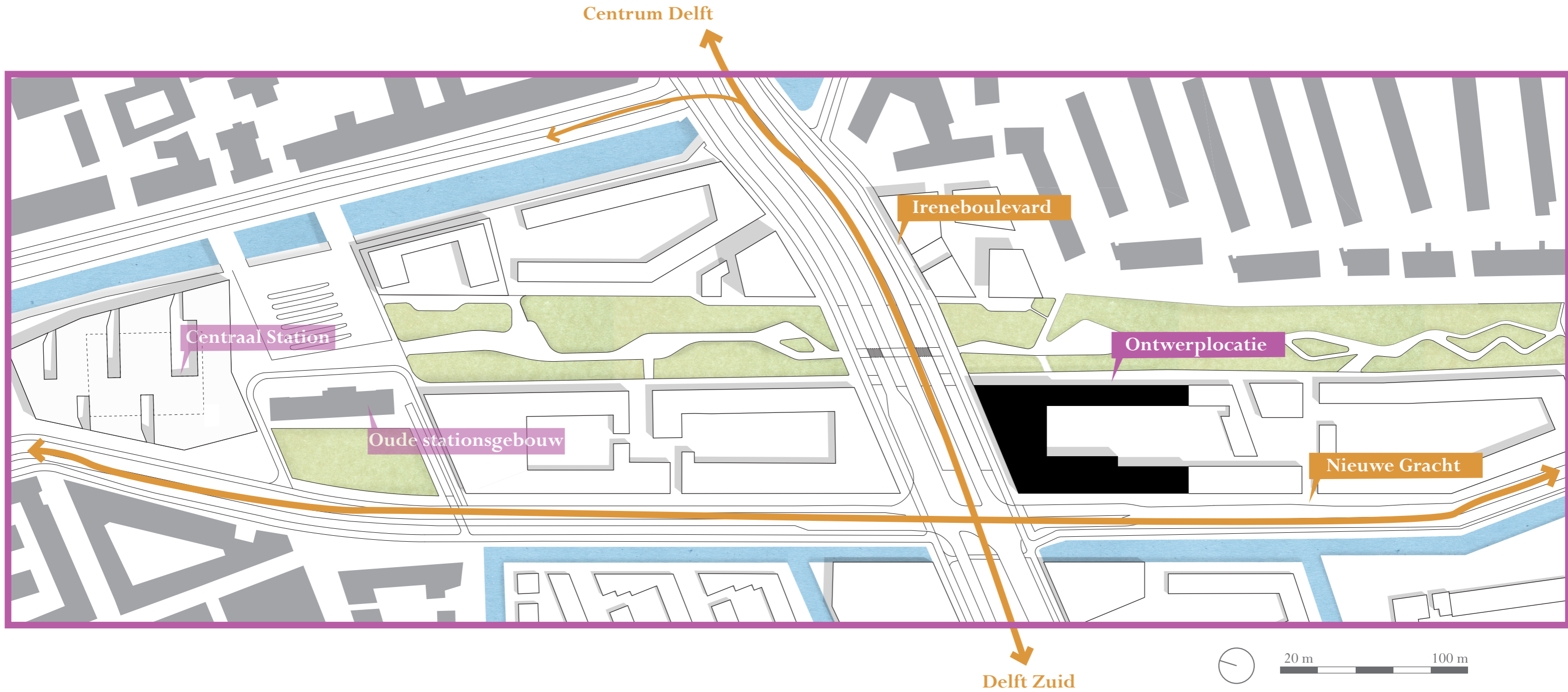
Nieuw Delft - Spoorzone



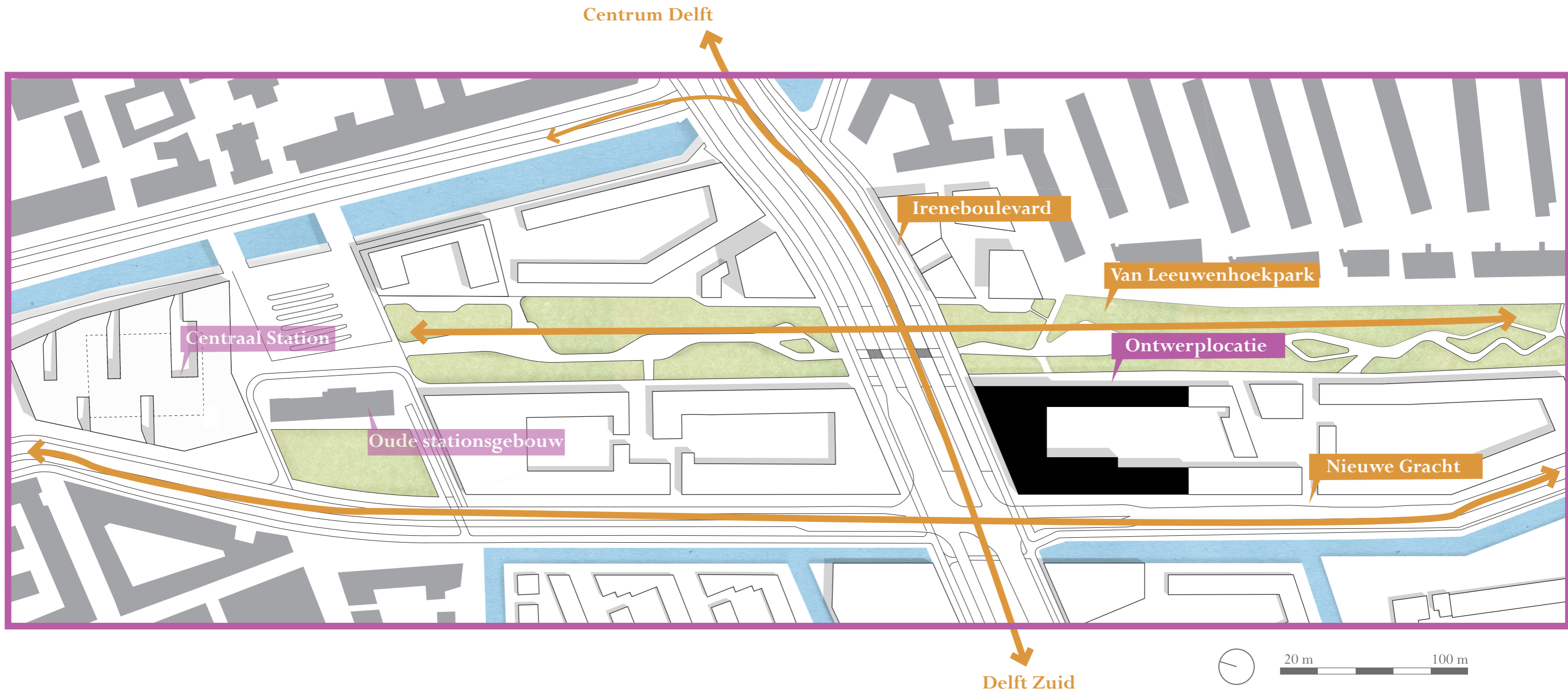
Nieuw Delft - Spoorzone



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Vision Pieter van Foreest





Pieter van Foreest

*“Nieuw Delft is dé plek voor een nieuwe, inspirerende locatie voor senioren,
waar jong en oud samen kunnen komen.*

[...]

Wij willen op een vertrouwde plek een woonzorgcentrum neerzetten.

*In zo'n centrum komen zorg en ondersteuning samen
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Dit zijn mensen die niet meer thuis kunnen blijven wonen.”



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100 intramural
60 extramural

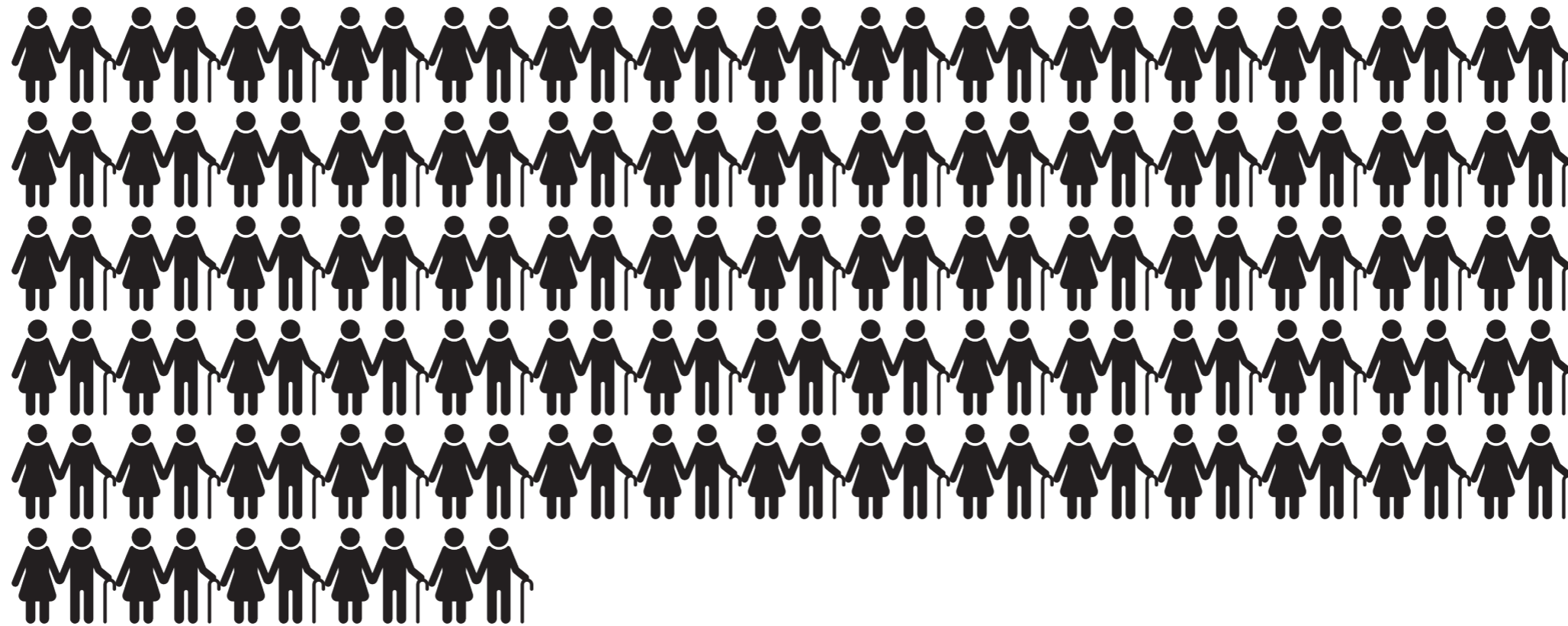
Vision Pieter van Foreest

100 intramural
60 extramural



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100 intramural
60 extramural



Vision Pieter van Foreest

100 intramural
60 extramural



In de Leeuwenhoek



In de Leeuwenhoek



In de Leeuwenhoek



*‘We moeten zorgen dat die mensen schoon zijn,
niet te lang in hun eigen poep zitten en dan houdt het op.
Maar de moeilijkste zorg is te zorgen dat ze een leuke middag hebben.
Dat is hele andere koek.’*

Personal vision

How do we want elderly to live in the future?

Personal vision

How do we want elderly to live in the future?

How can we create a moving project instead of a static building?

Personal vision

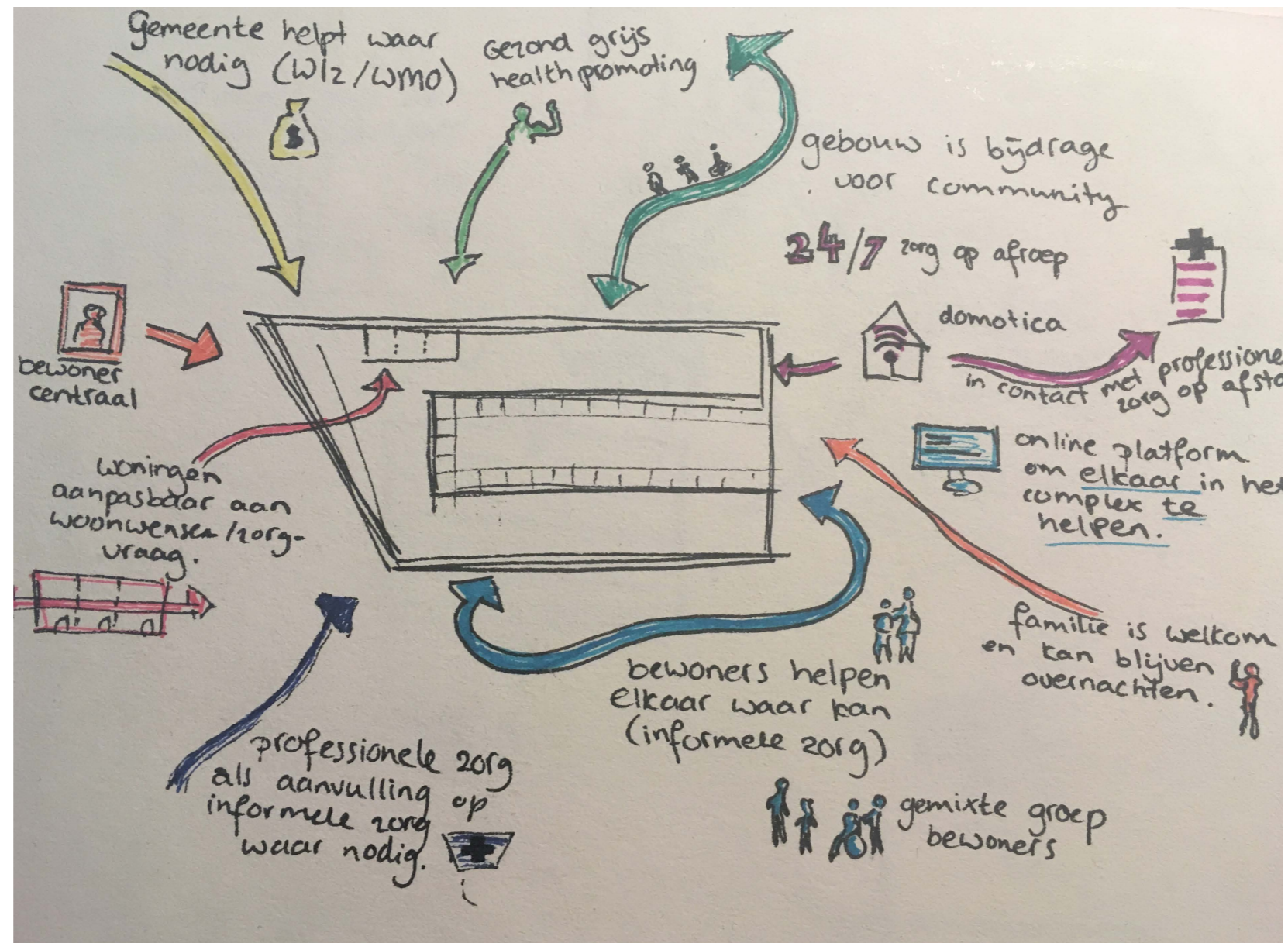
Create a healthy, non-institutional and adaptable environment that accomodates mixed generations and stimulates informal care

Personal vision

Create a healthy, non-institutional and adaptable environment that accomodates mixed generations and stimulates informal care

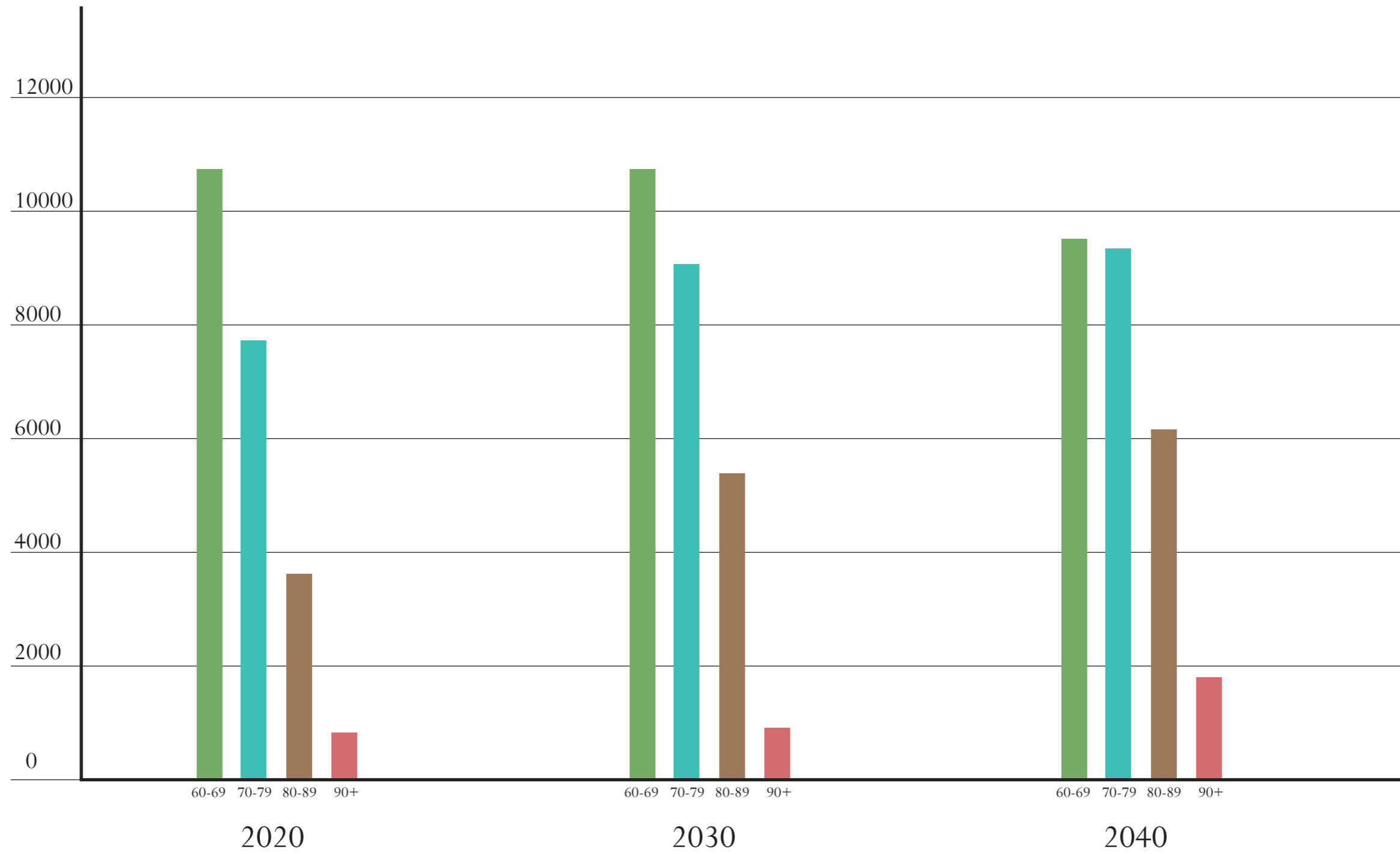
And where formal care on an external location
can be reached 24/7 [domotica]

Personal vision

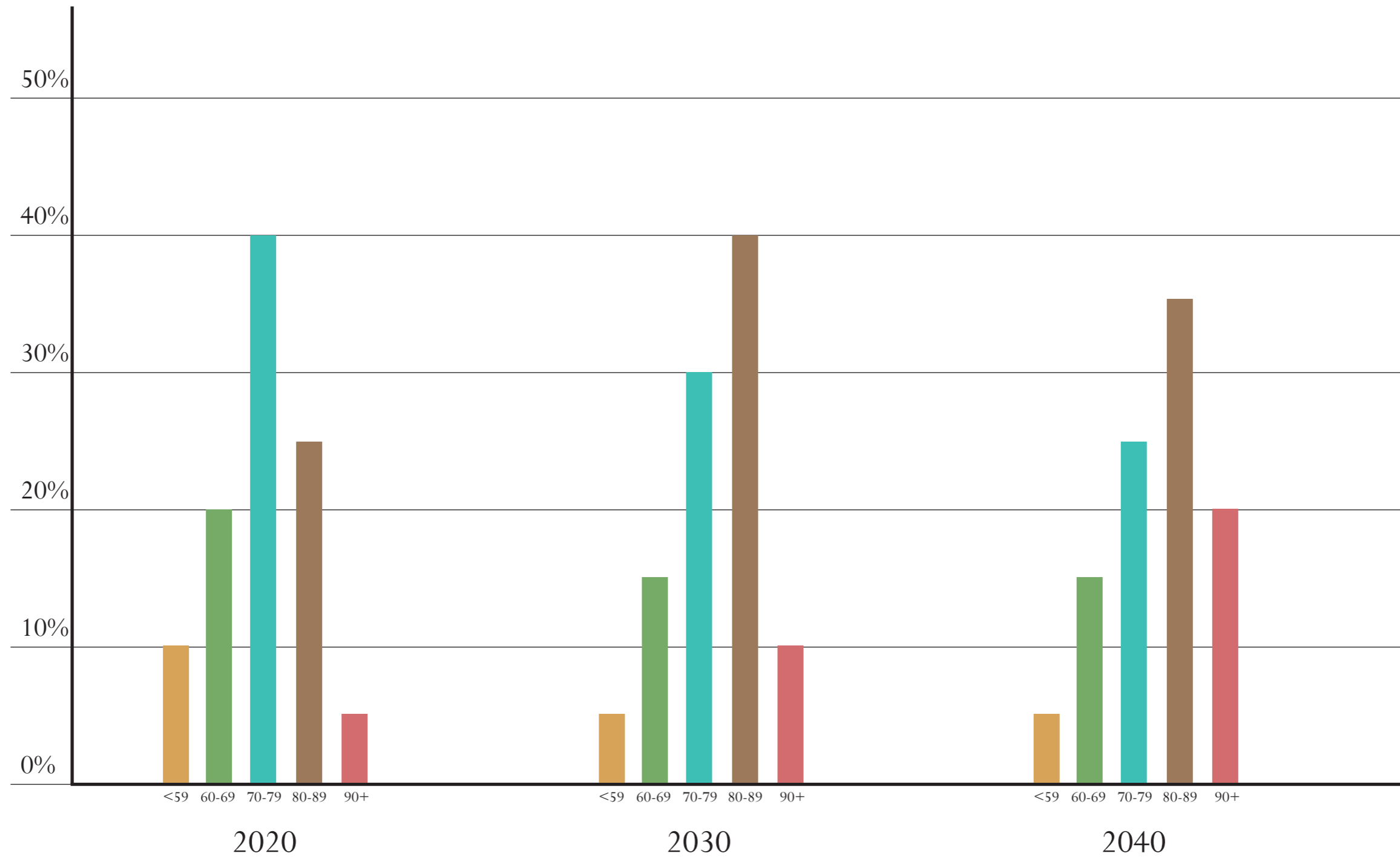


Samen zelfstandig wonen

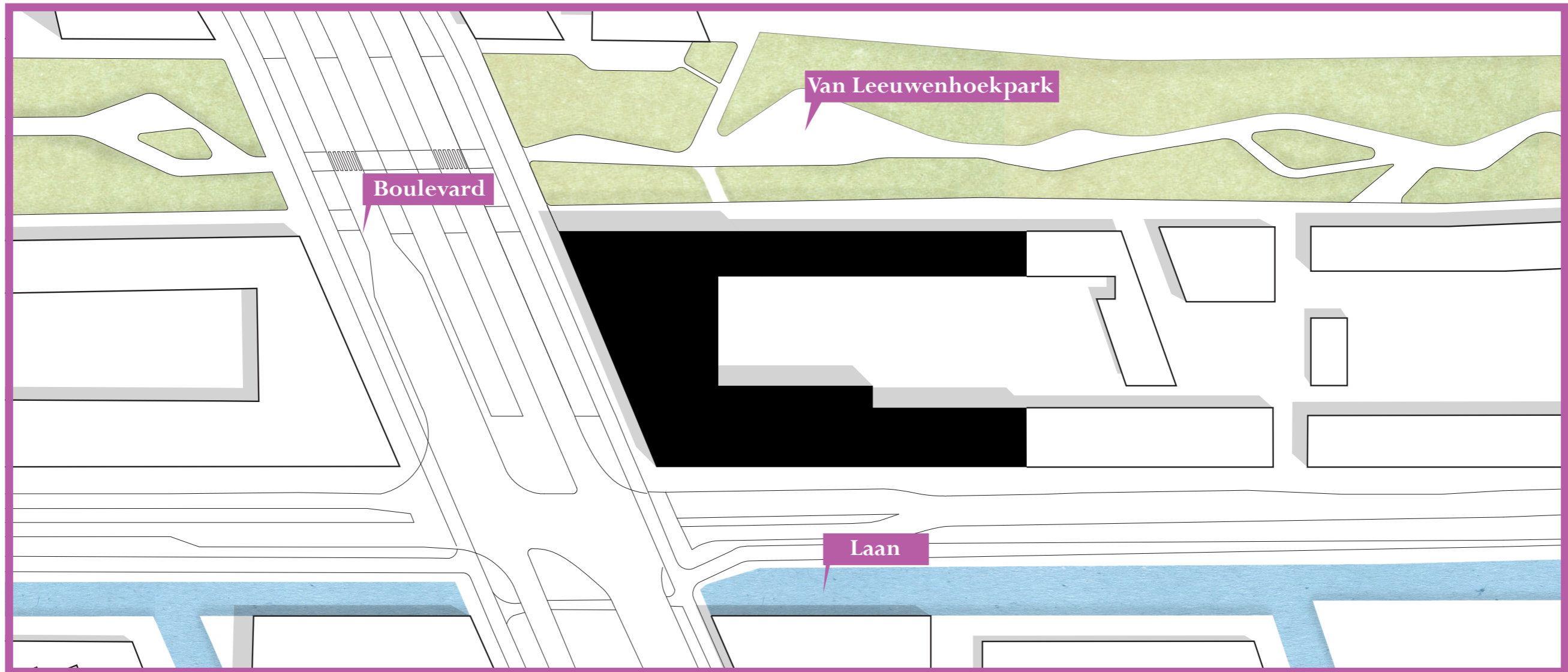
Residents - Delft



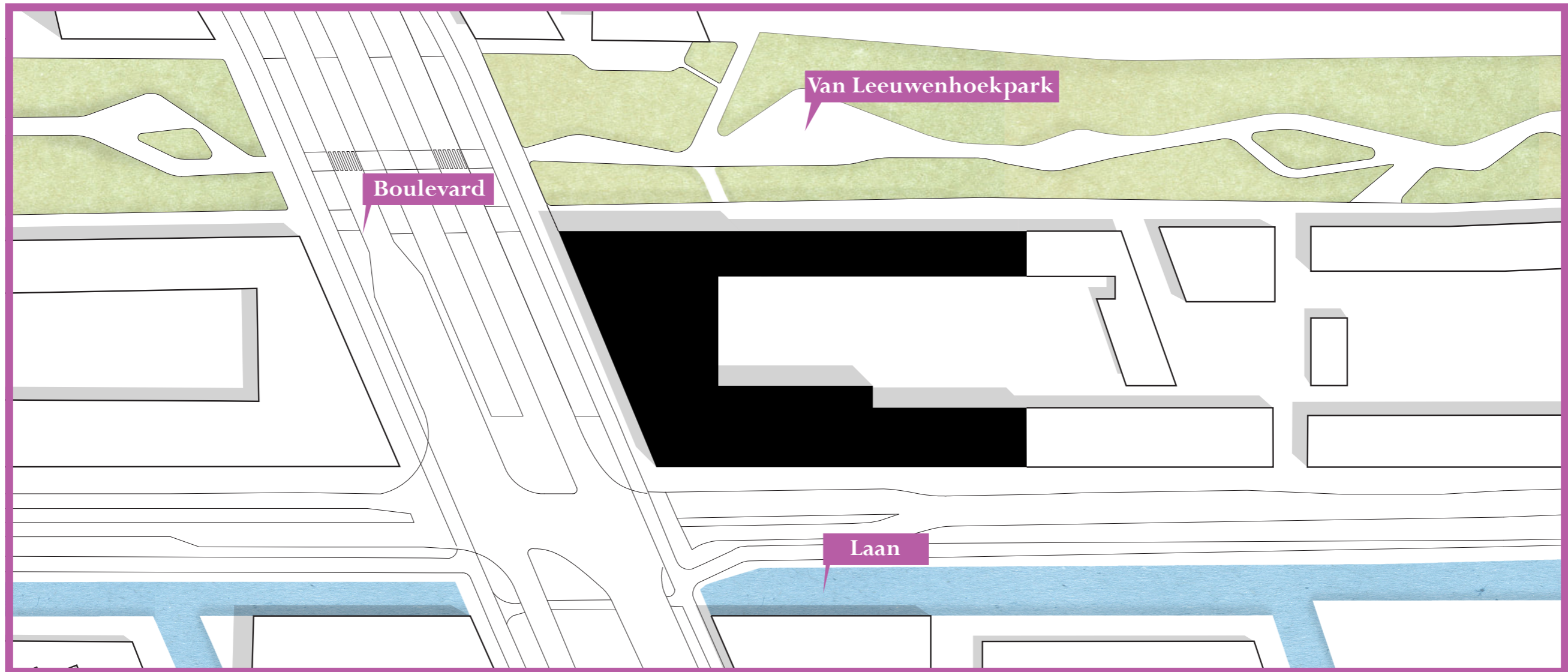
Residents - Het Verticale Hof



Context



Context



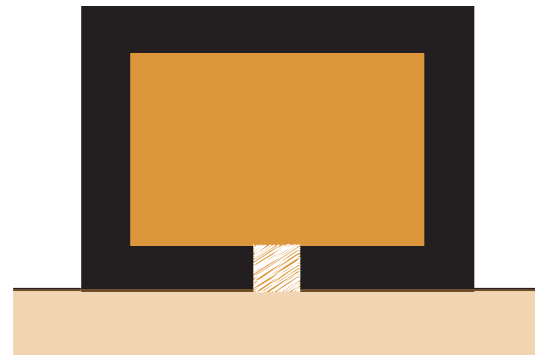
“Hedendaagse, stedelijke variant van het hofje”

Historical 'hofjes'



Klauwshofje, Delft

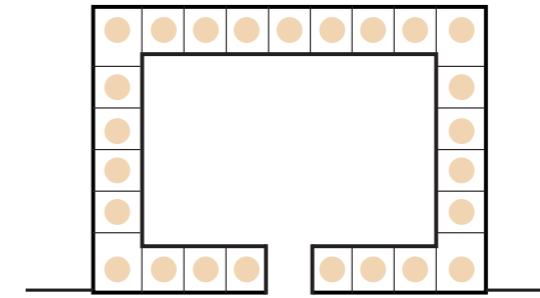
Historical 'hofjes'



Publiek -
tussengebied-
privaat



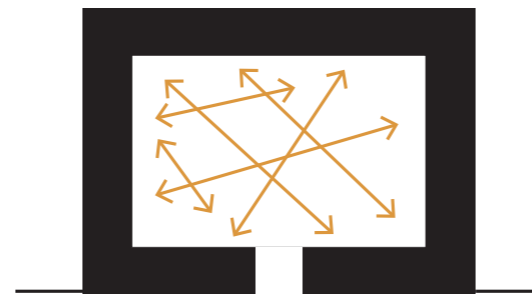
Kleinschalig



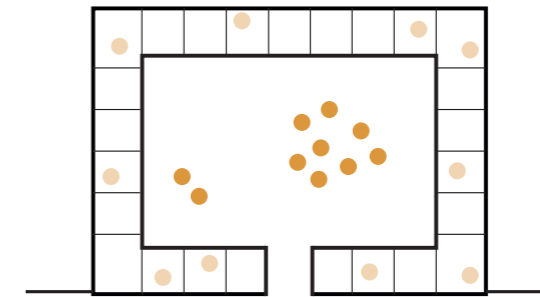
Homogene groep
bewoners



Veilig & beschut



Sociale controle



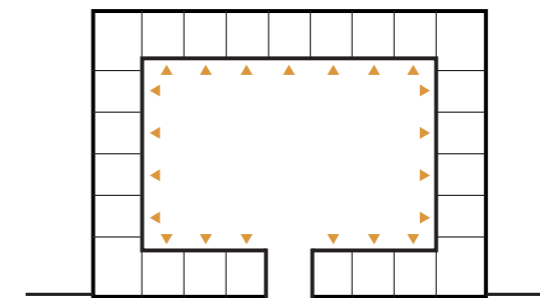
Individueel/collectief



Oase in de stad

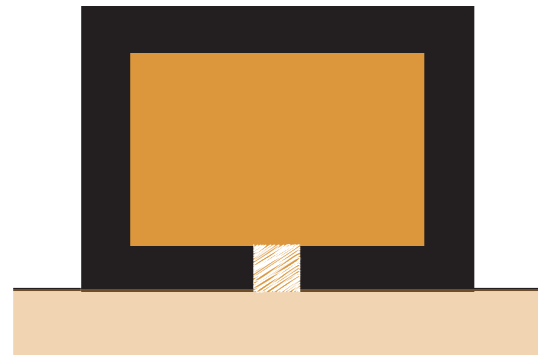


Sociale cohesie



Ontsluiting via
binnenterrein

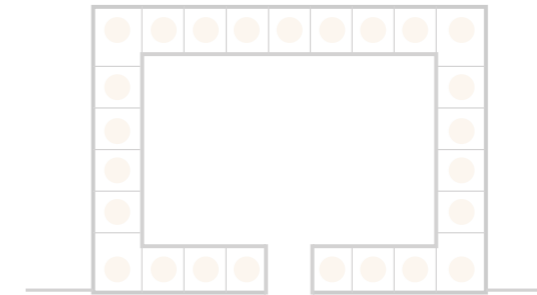
Historical 'hofjes'



Publiek -
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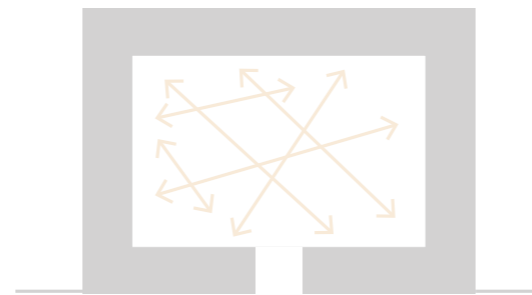
Kleinschalig



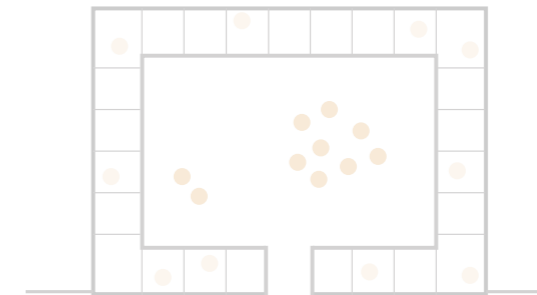
Homogene groep
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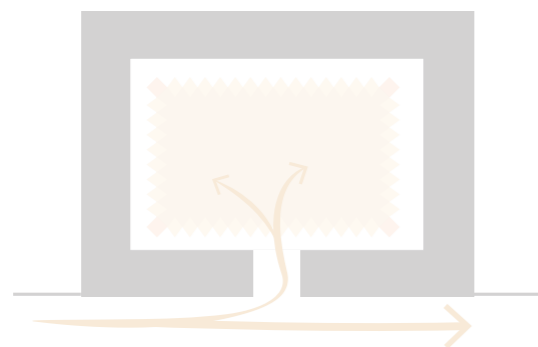
Veilig & beschut



Sociale controle



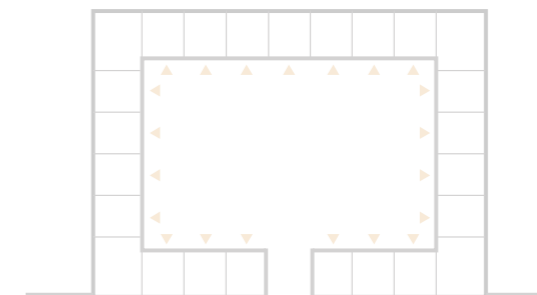
Individueel/collectief



Oase in de stad



Sociale cohesie



Ontsluiting via
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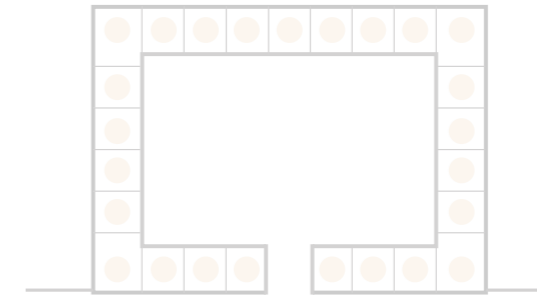
Historical 'hofjes'



Publiek -
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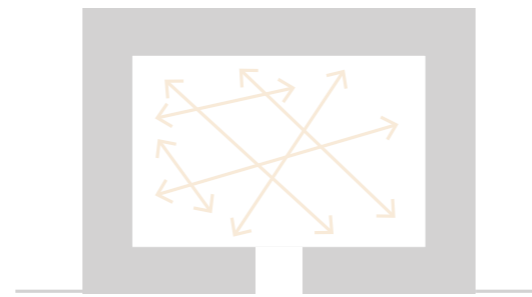
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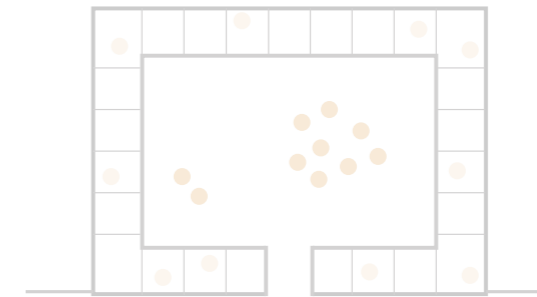
Homogene groep
bewoners



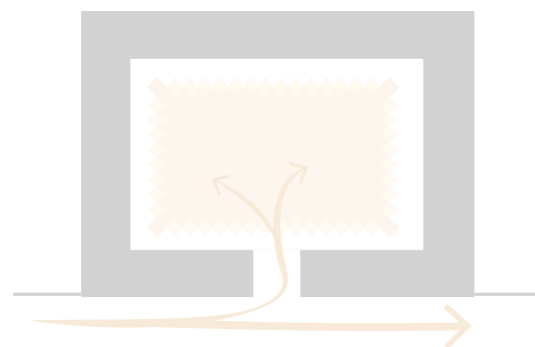
Veilig & beschut



Sociale controle



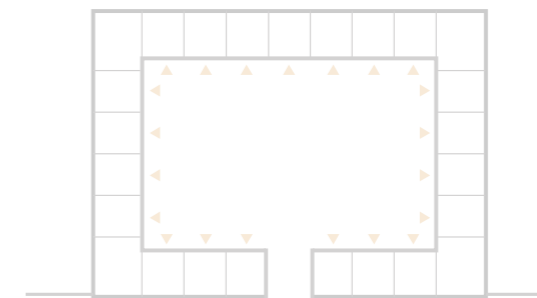
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Oase in de stad



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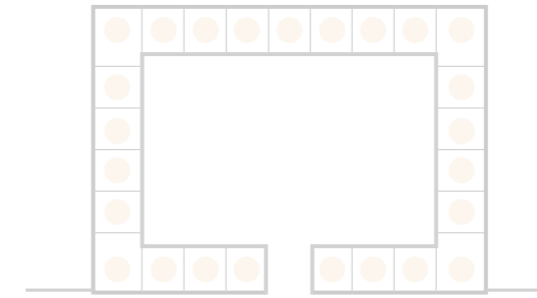
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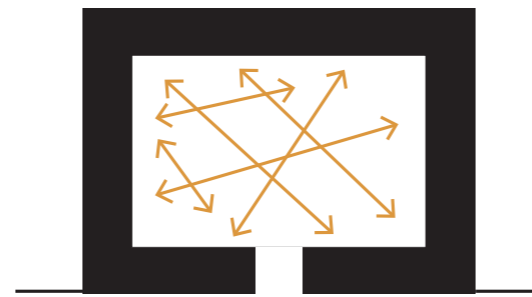
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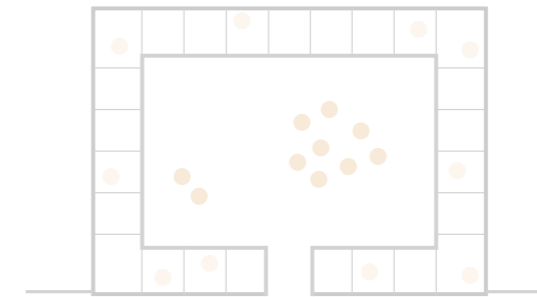
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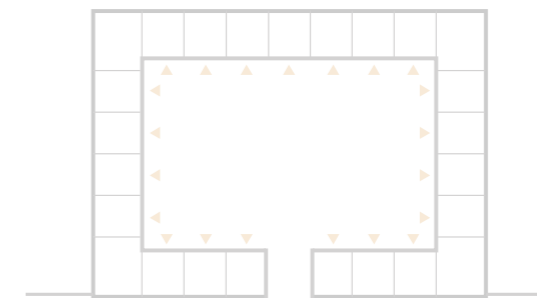
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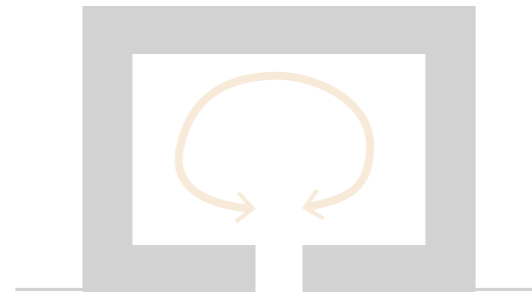


Ontsluiting via
binnenterrein

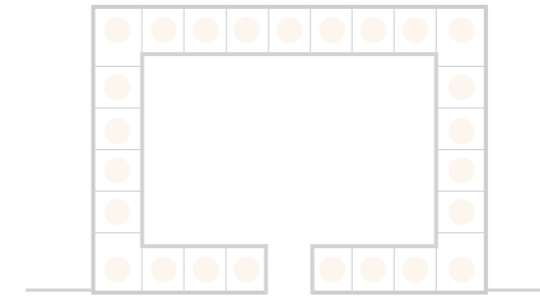
Historical 'hofjes'



Publiek -
tussengebied-
privaat



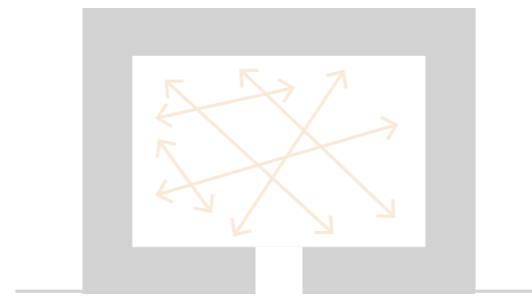
Kleinschalig



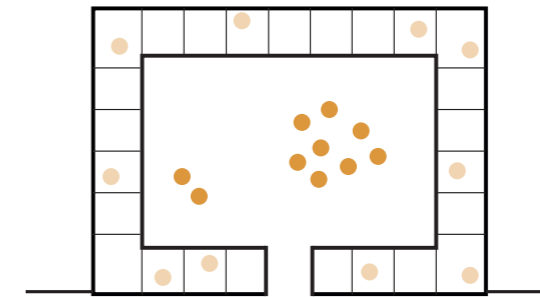
Homogene groep
bewoners



Veilig & beschut



Sociale controle



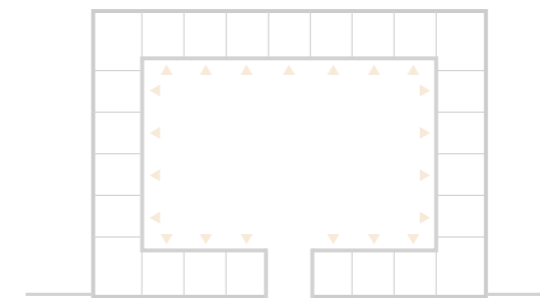
Individueel/collectief



Oase in de stad

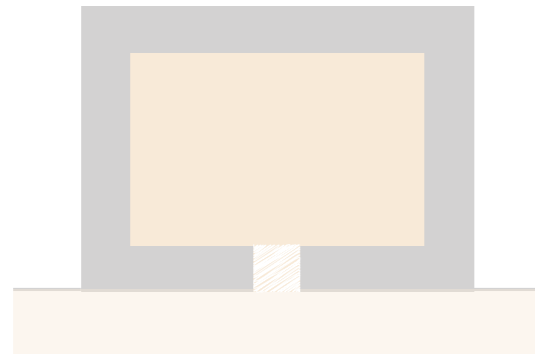


Sociale cohesie

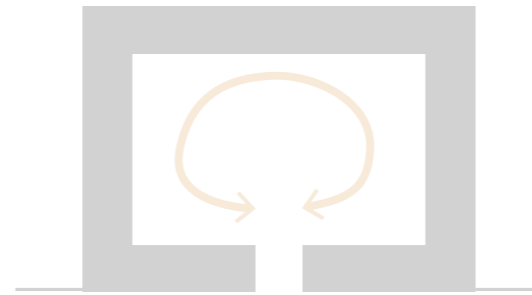


Ontsluiting via
binnenterrein

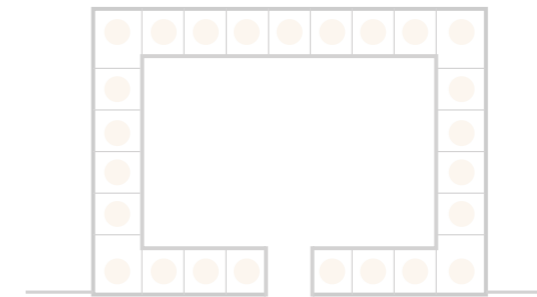
Historical 'hofjes'



Publiek -
tussengebied-
privaat



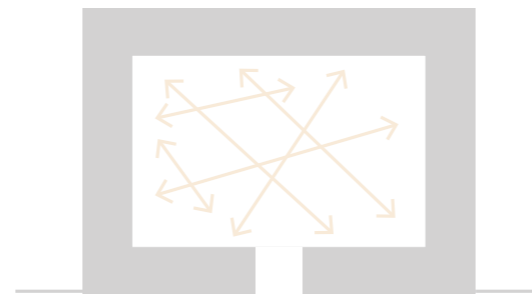
Kleinschalig



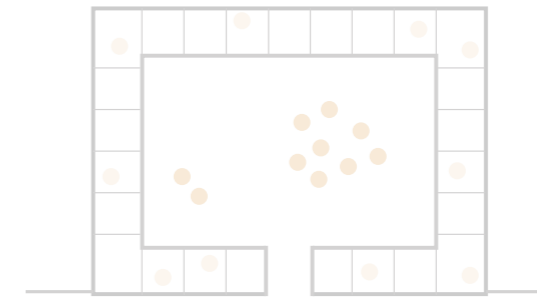
Homogene groep
bewoners



Veilig & beschut



Sociale controle



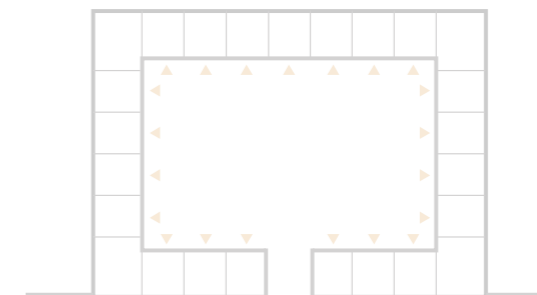
Individueel/collectief



Oase in de stad



Sociale cohesie



Ontsluiting via
binnenterrein

Vertical 'hofje'



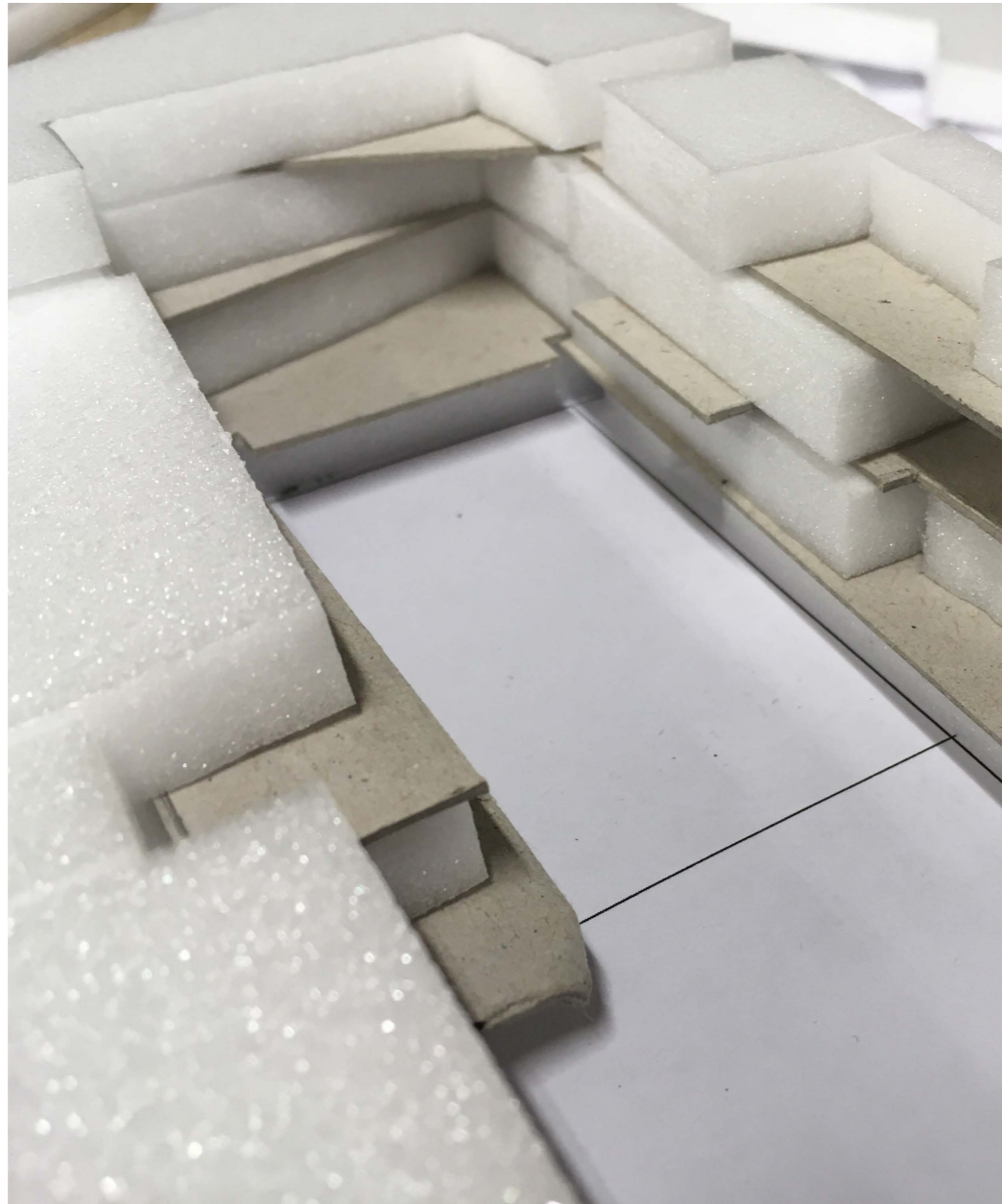
Vertical 'hofje'



Vertical 'hofje'



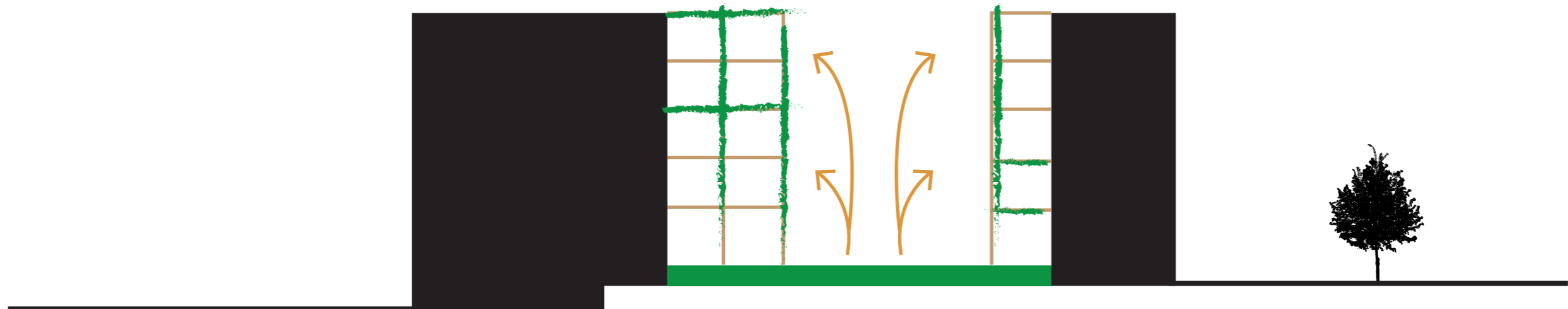
Vertical 'hofje'



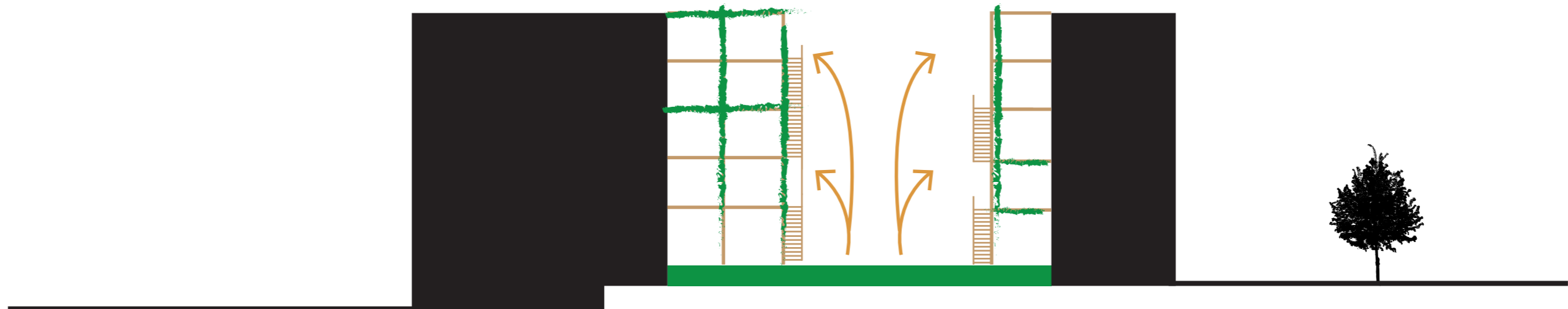
Vertical 'hofje'



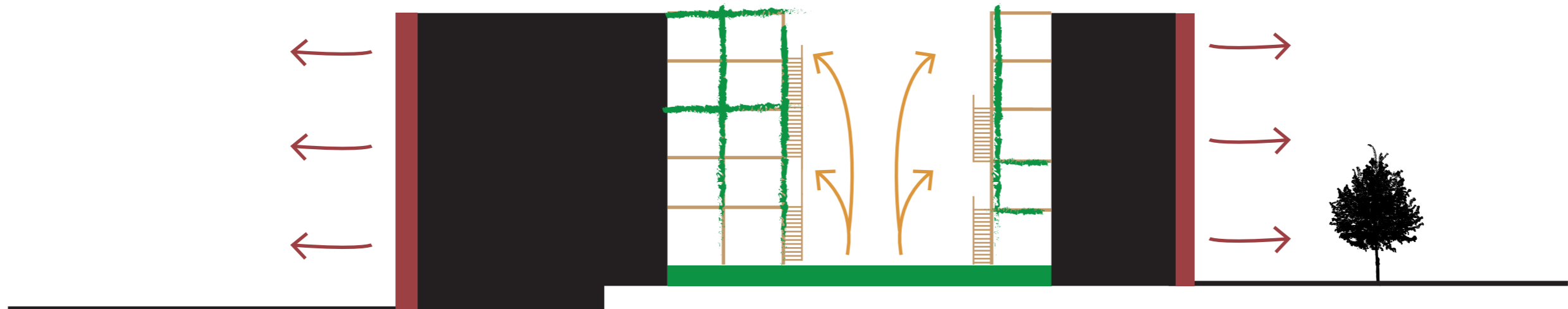
Vertical 'hofje'



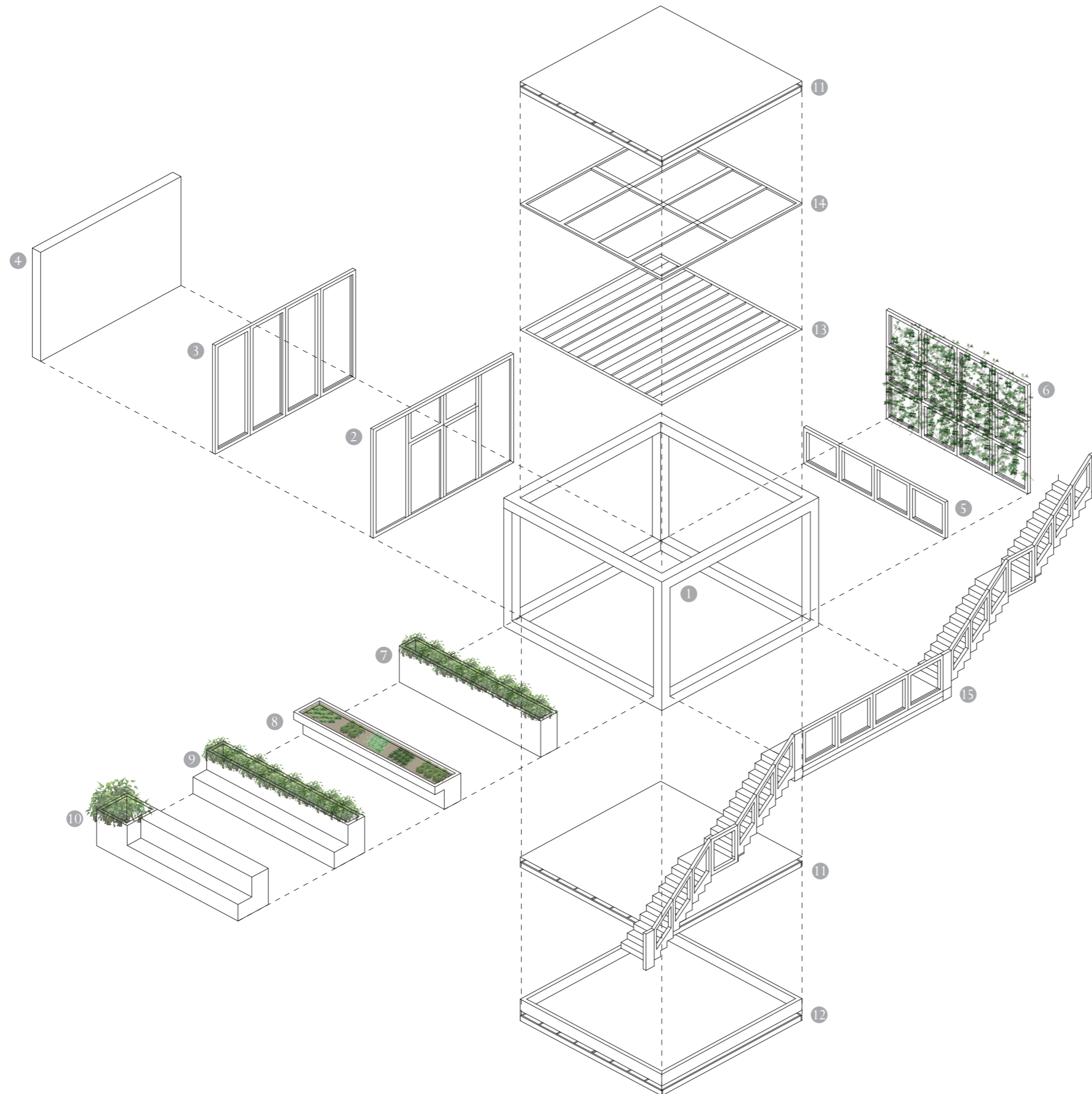
Vertical 'hofje'



Vertical 'hofje'



Vertical 'hofje'



- ① Structural wooden frame, 300x300mm accoya
- ② Panel with frames for windows and doors
- ③ Panel with frames for windows
- ④ Closed panel
- ⑤ Wooden balustrade
- ⑥ Framework as basis for ivy
- ⑦ Planter box
- ⑧ Vegetable box - wheelchair proof
- ⑨ Planter bench and box I
- ⑩ Planter bench and box II
- ⑪ Kerto ripa floor 250mm
- ⑫ Kerto ripa floor 600mm with soil for plants
- ⑬ Blinds
- ⑭ Structure for hanging plants
- ⑮ Extended beams and floor with stairs

Vertical 'hofje'

OPEN

De open module heeft geen afgesloten zijden en is niet te betreden. Deze module kan gebruikt worden om planten te laten groeien en stimuleert de biodiversiteit.

BUITENRUIMTE

De buitenruimte is vanaf de verdiepingen toegankelijk voor alle bewoners en/of bezoekers en wordt omsloten door een hekwerk. In de buitenruimte kan men o.a. van het weer genieten, tuinieren en andere mensen ontmoeten.

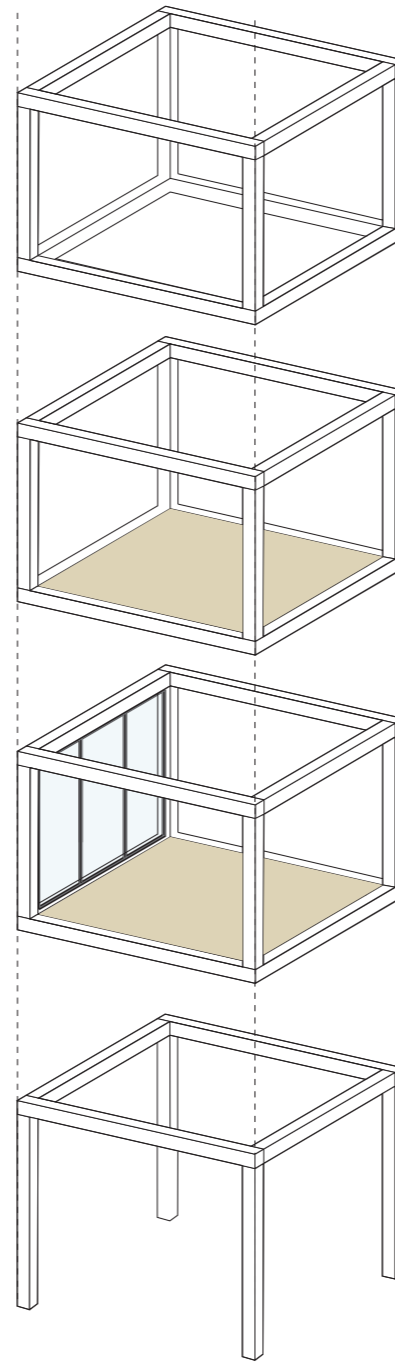
BINNENRUIMTE

In de binnenruimten zijn de gezamenlijke functies ondergebracht die een dak vereisen. Zo kan men in de huiskamer zitten, van een keuken gebruik maken en lezen in de bibliotheek.

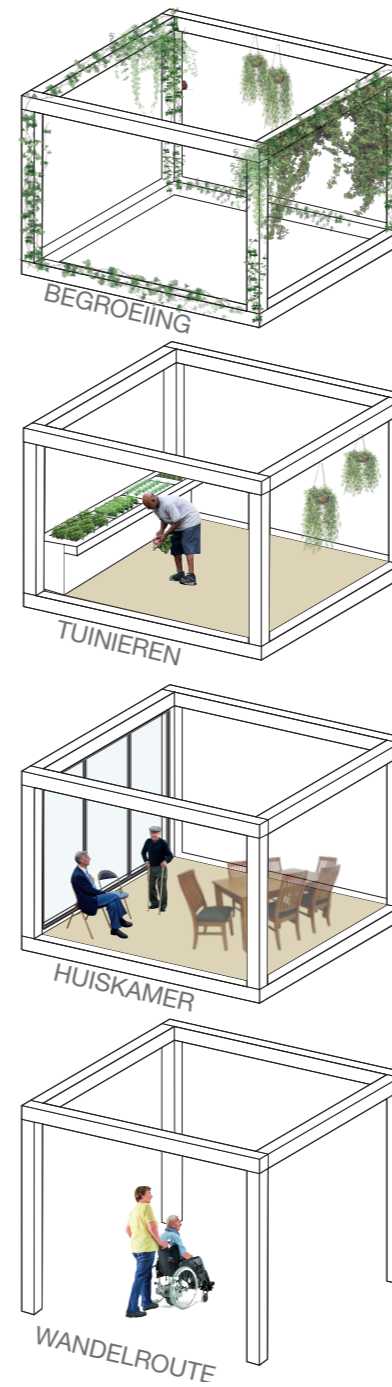
GALLERIJ

De overdekte module op de begane grond creëert een galerij rondom het gehele binnenterrein. Bewoners en/of bezoekers zullen eerder geneigd zijn naar buiten te gaan, dan wanneer het weer het normaalgesproken niet zou toelaten.

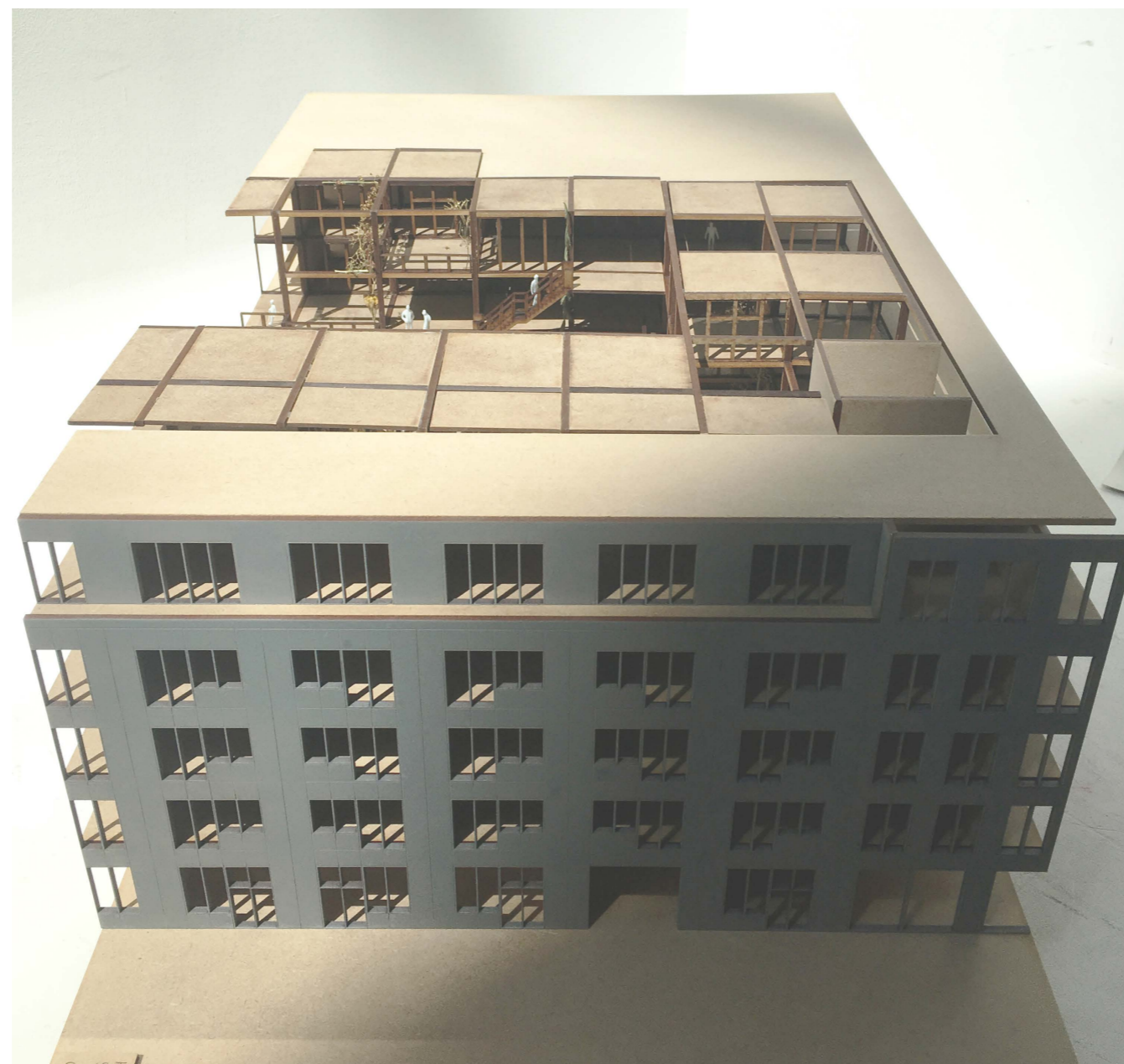
BINNEN / BUITEN



MOGELIJKE INVULLINGEN



Vertical 'hofje'



Vertical 'hofje'



Vertical 'hofje'



Vertical 'hofje'



*Need for
contact with
thirds*



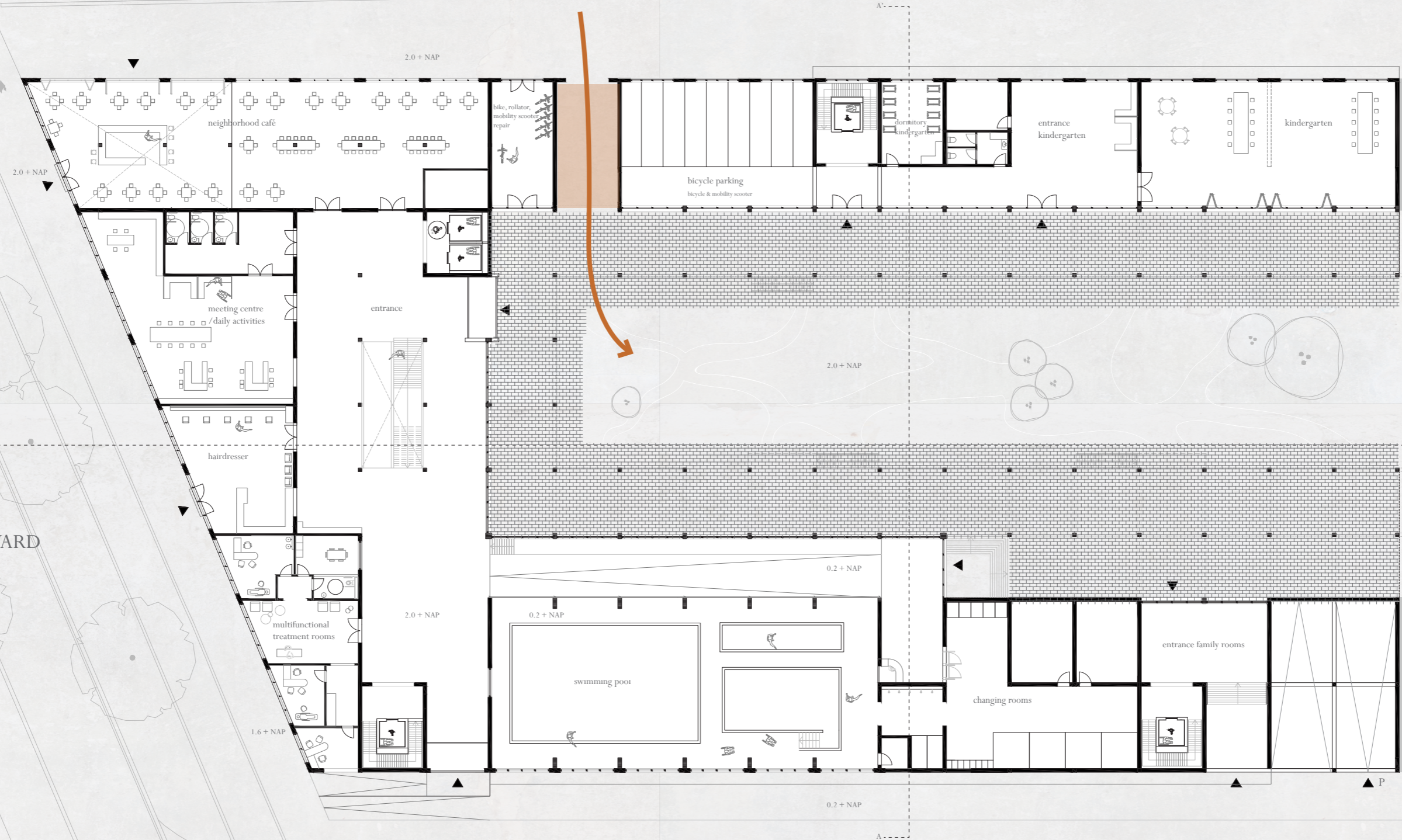
Stimulate unplanned meetings

Vertical 'hofje'



PARK

Ground floor



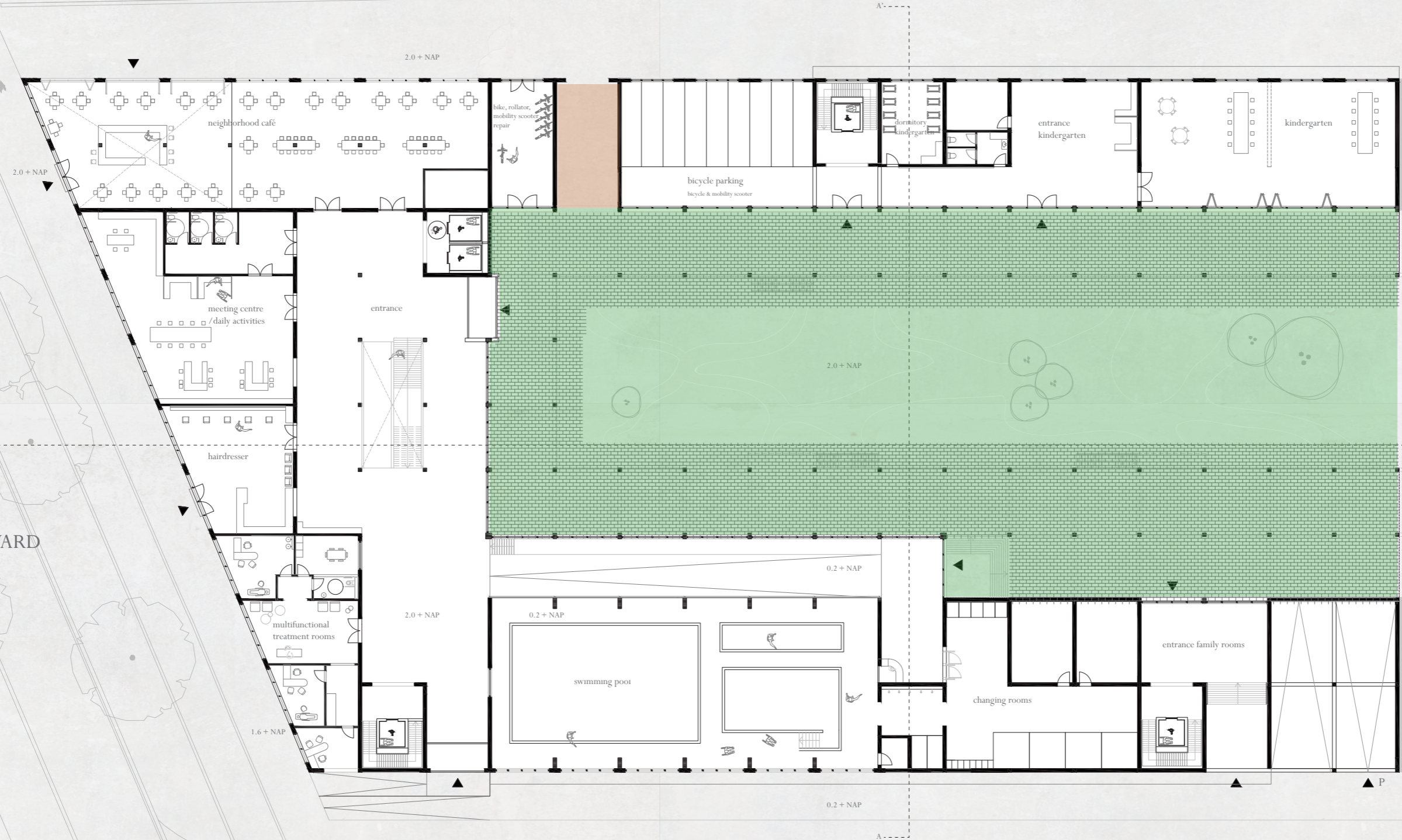
BOULEVARD

LANE



PARK

Ground floor



BOULEVARD

LANE

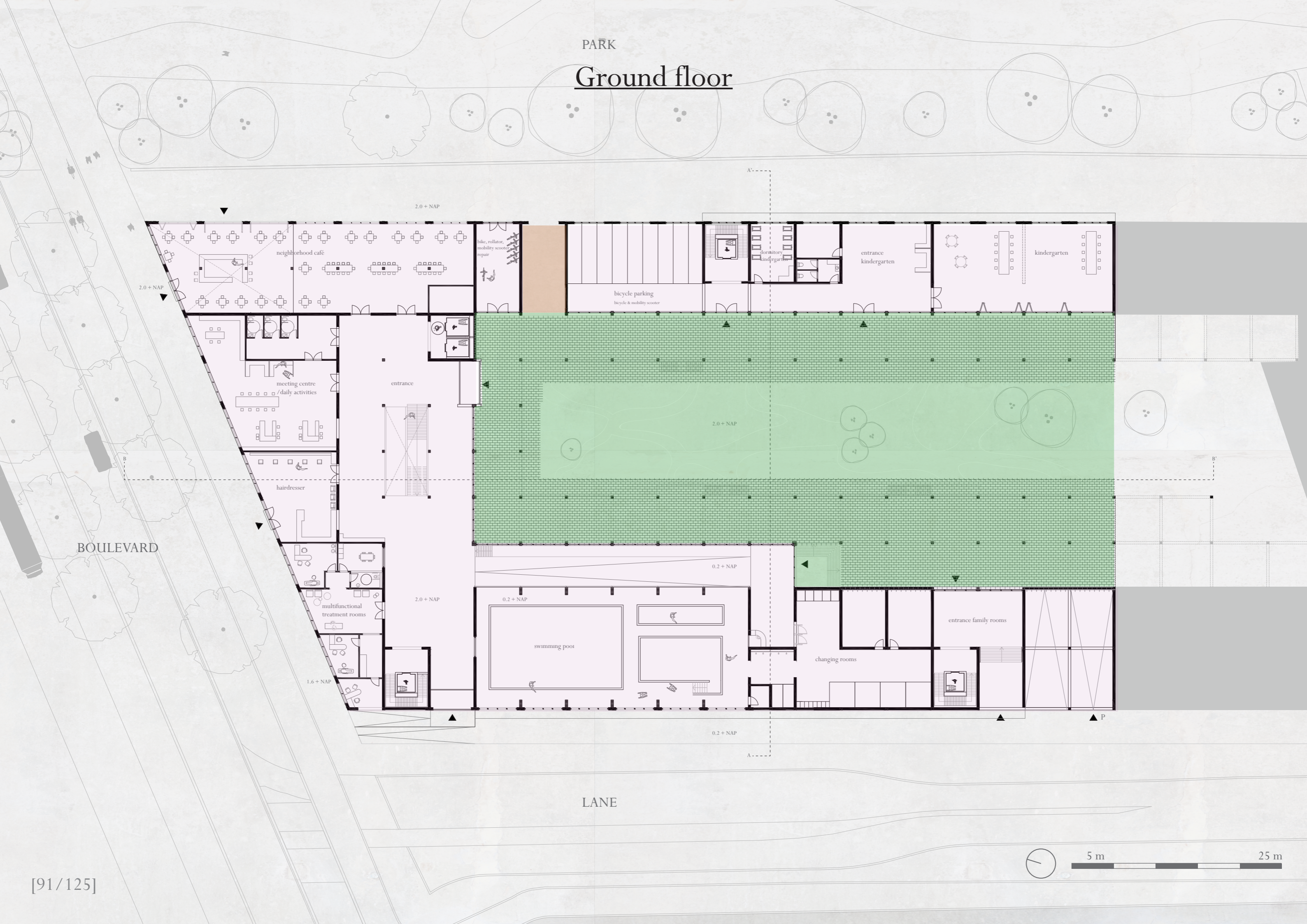


Ground floor



PARK

Ground floor



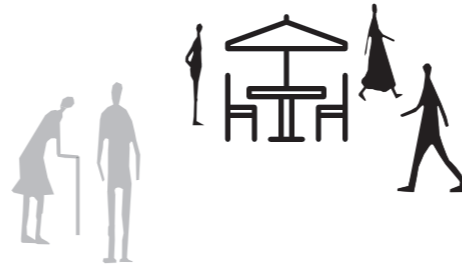
BOULEVARD

LANE

Research insight



*Need for
contact with
thirds*



Being among other people
(public functions in the neighborhood)



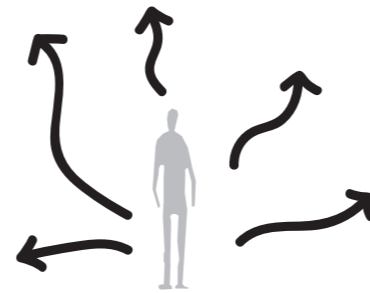
*Need for
daily patterns*



Stimulate daily activities
(physical space where activities
can take place)



*Need for
dignity*



Possibility to choose
(different options, levels of privacy)



*Need for
closeness*



Family rooms
(possibility to stay overnight)

(semi-)public functions



Neighborhood café



Center for daily activities



Hairdresser



Swimming pool



Bike/rollator/
mobility scooter repair



Kindergarten



Family rooms



Treatment rooms
(multifunctional)

(semi-)public functions

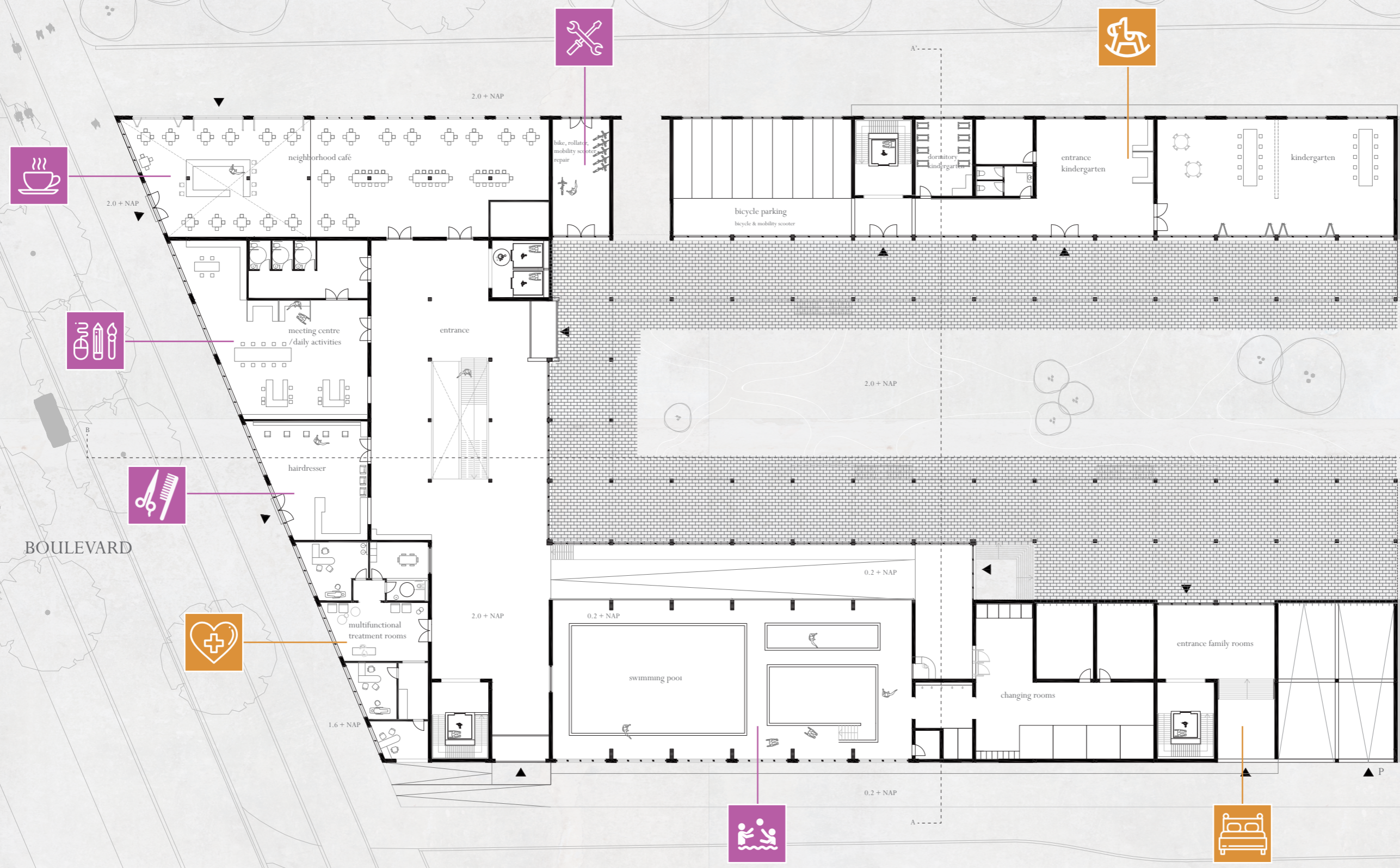


*Need for
consults
foral and
informal care*



Professional care
(space for professional caregivers)

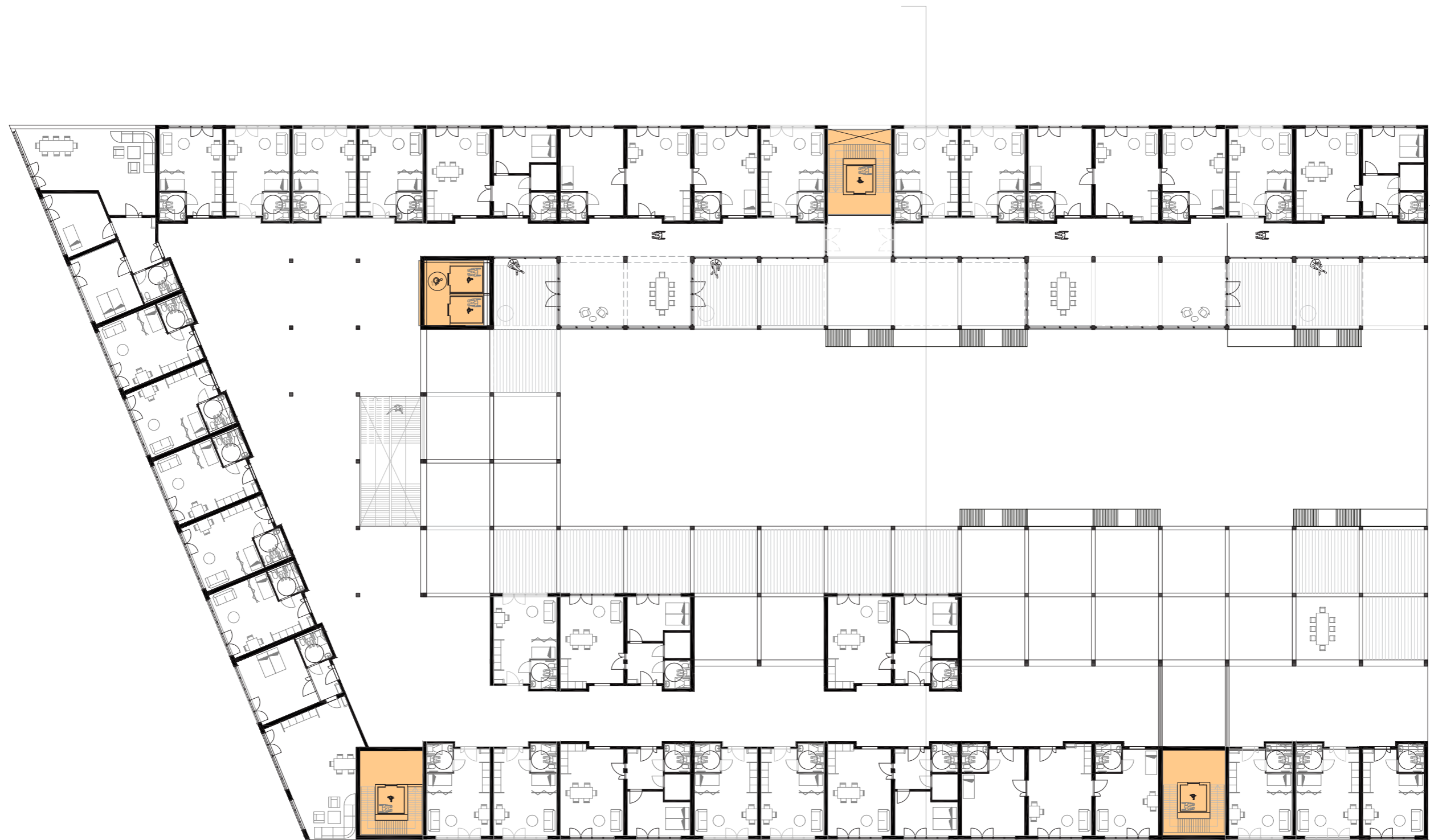
PARK
(semi-)public functions



(semi-)public functions



First floor



Vertical transportation

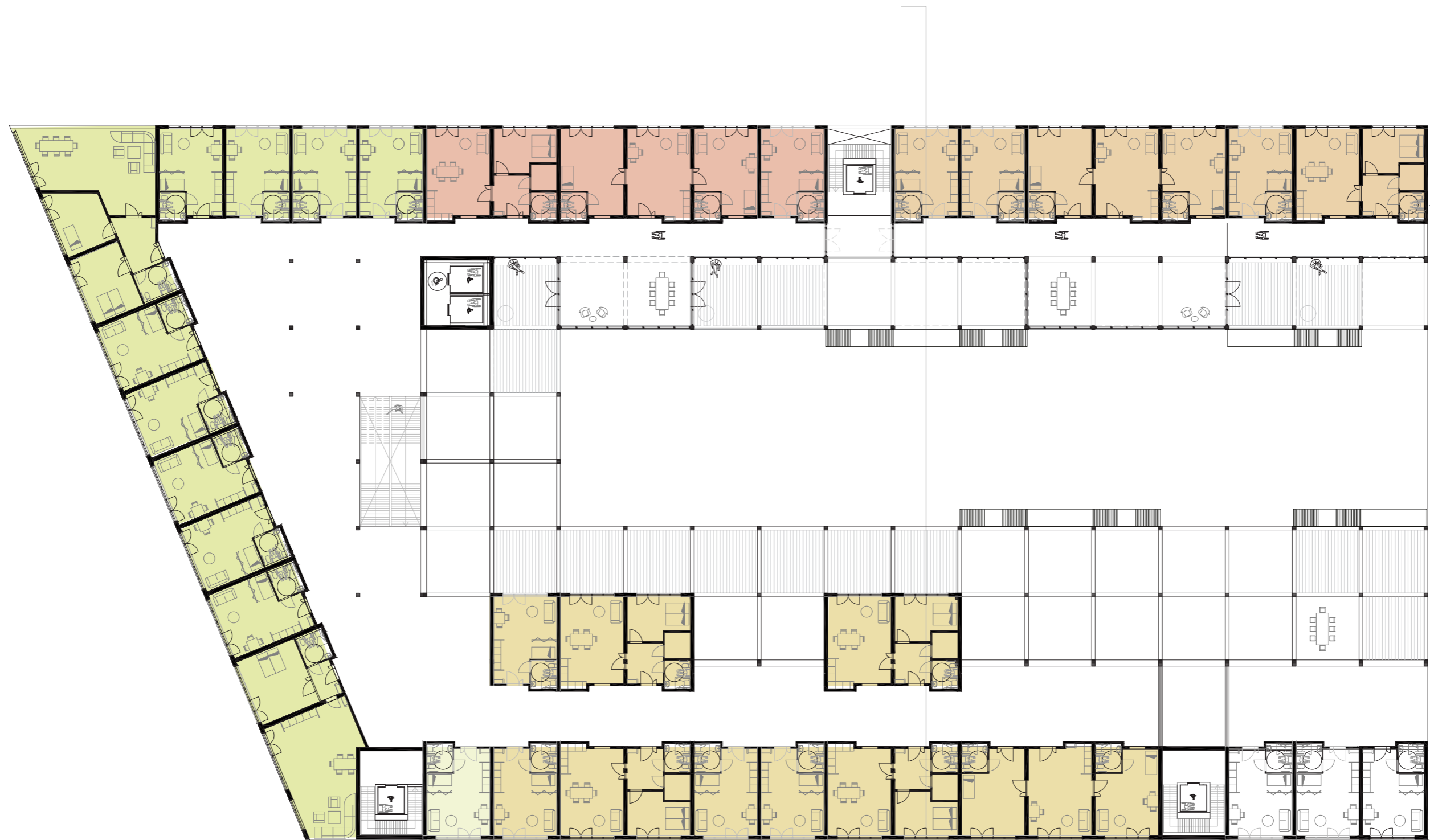


5 m



25 m

First floor



Apartments - individual

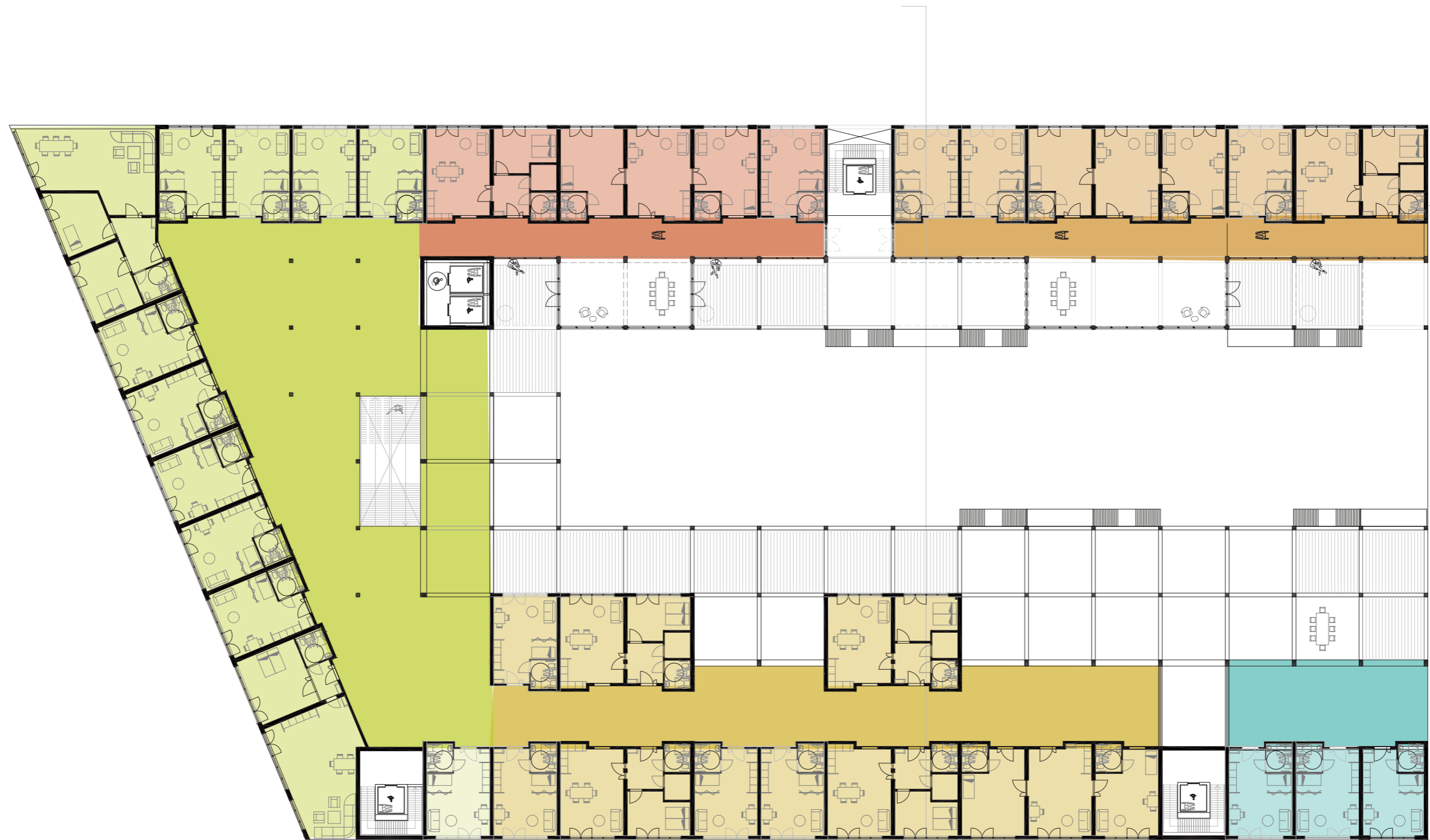


5 m



25 m

First floor



Horizontal transportation - collective

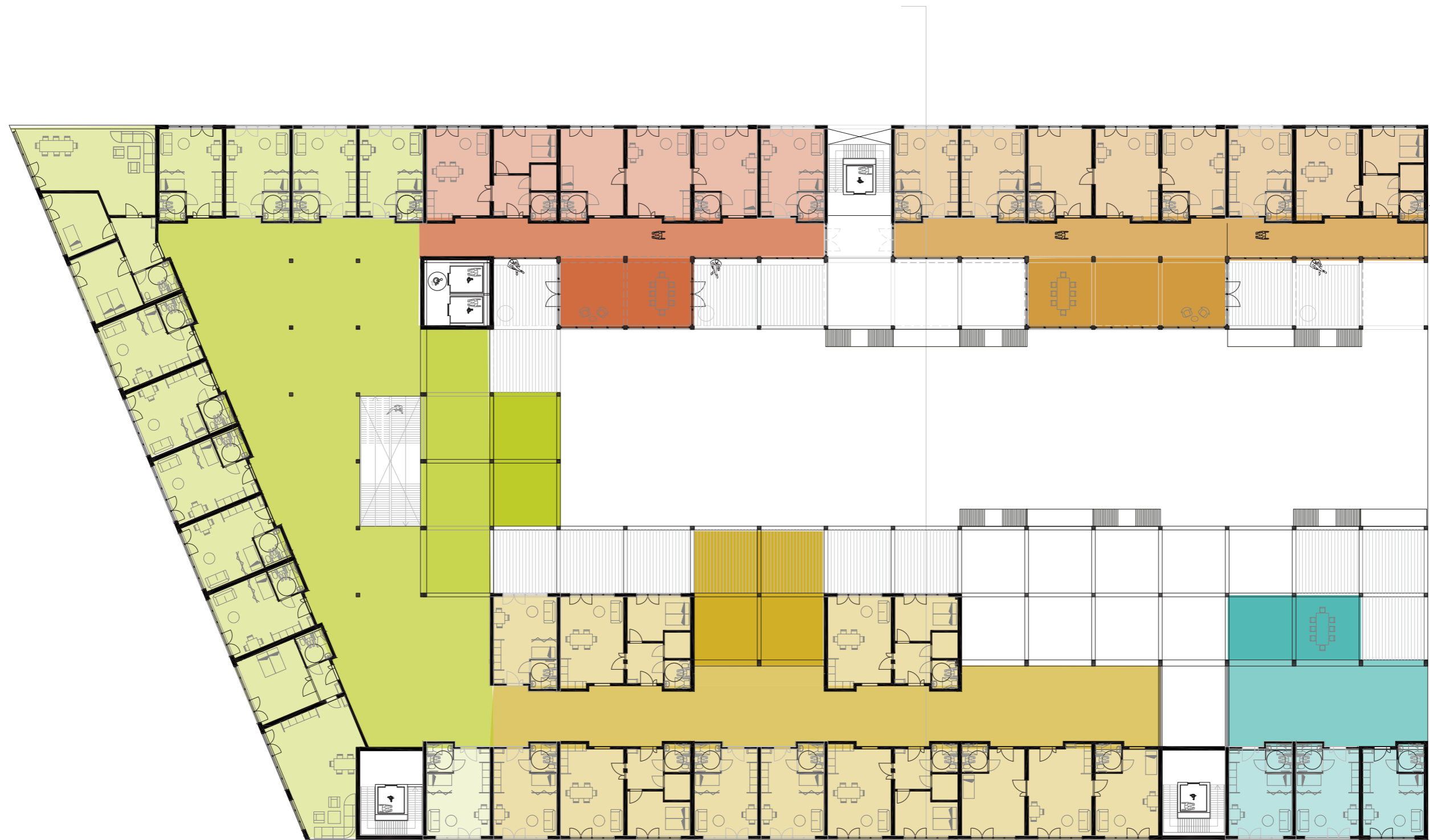


5 m



25 m

First floor



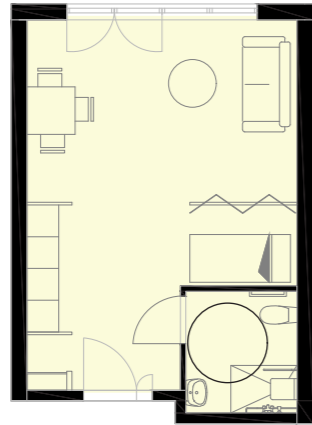
Communal spaces - collective

First floor



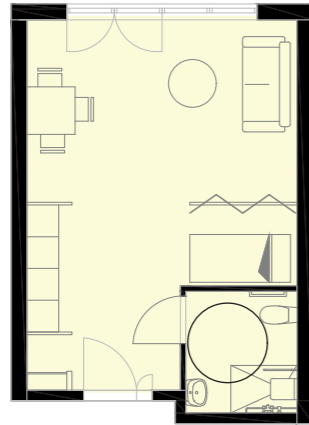
Communal spaces - collective

Adaptable apartments

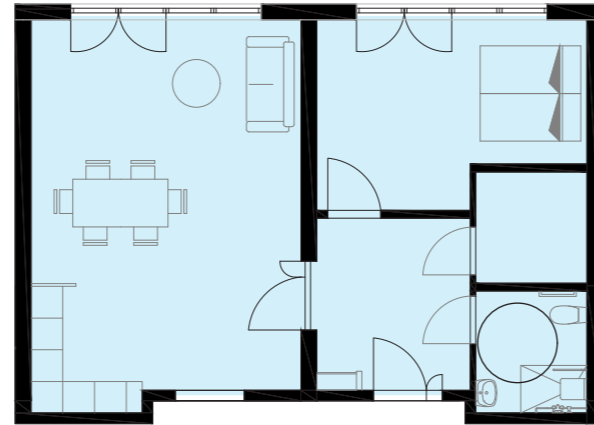


35 m²

Adaptable apartments

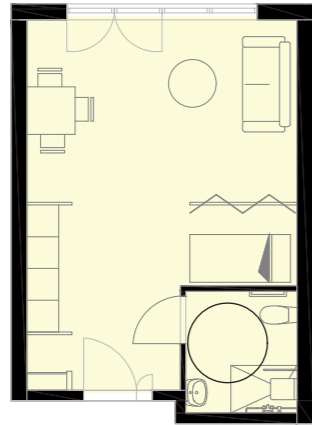


35 m²

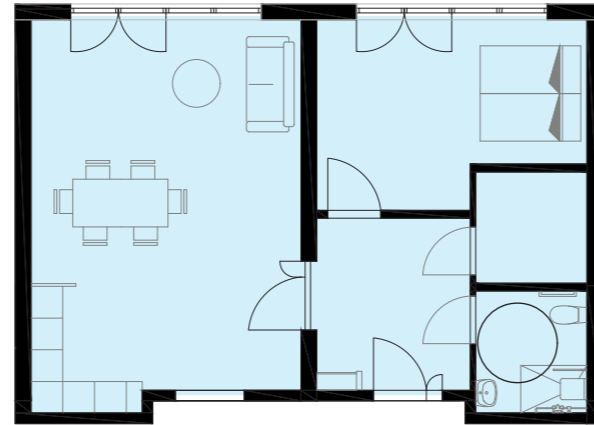


70 m²

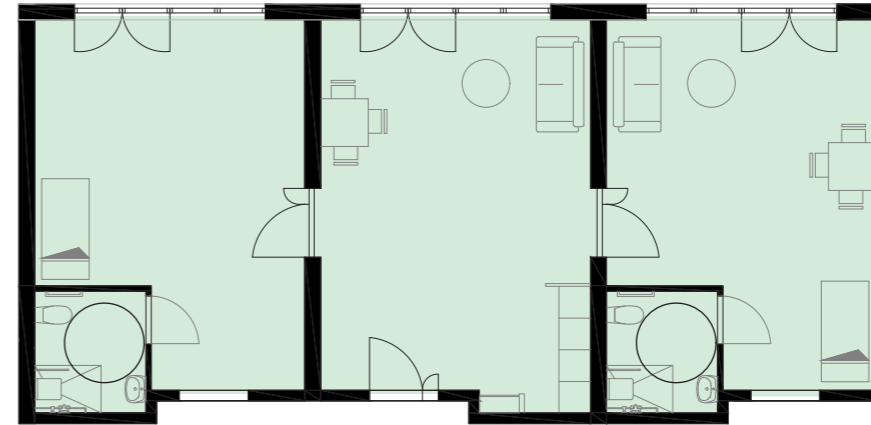
Adaptable apartments



35 m²

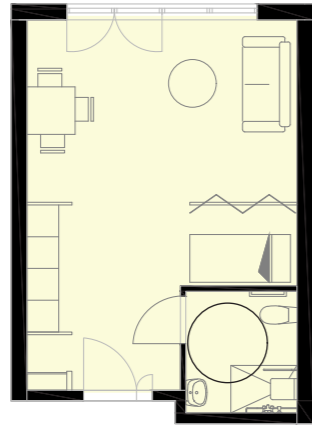


70 m²

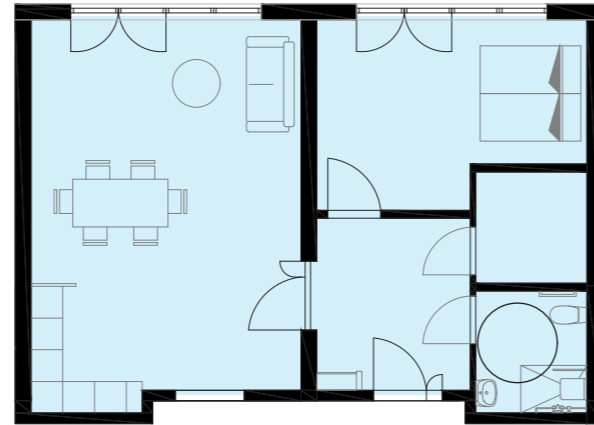


105 m²

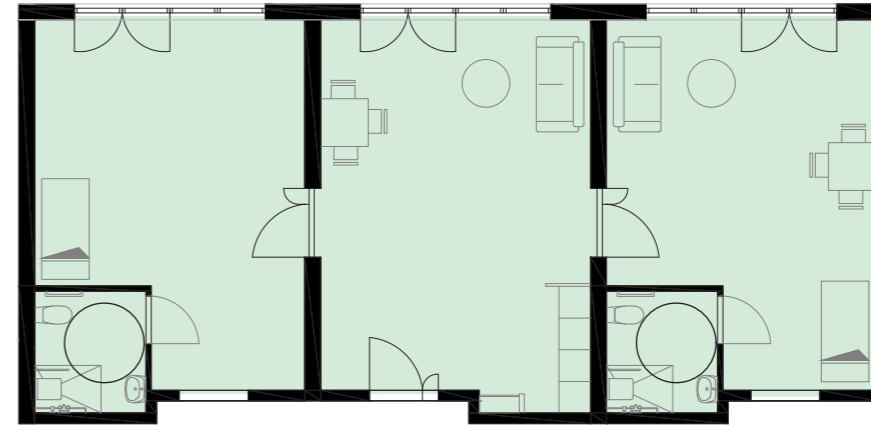
Adaptable apartments



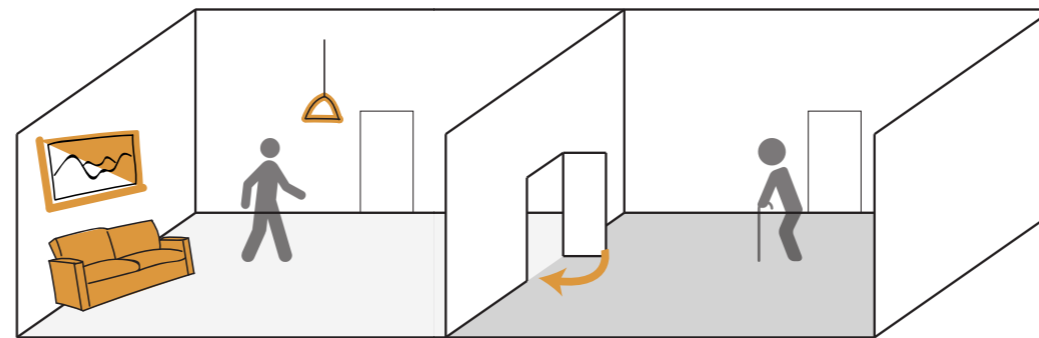
35 m²



70 m²



105 m²



“Kangoeroe-woning”

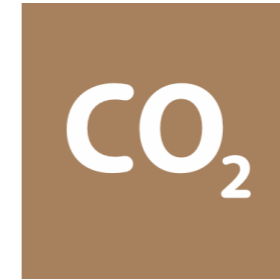
Wooden construction



Adaptable



Wellbeing



CO₂ storage



Reuse

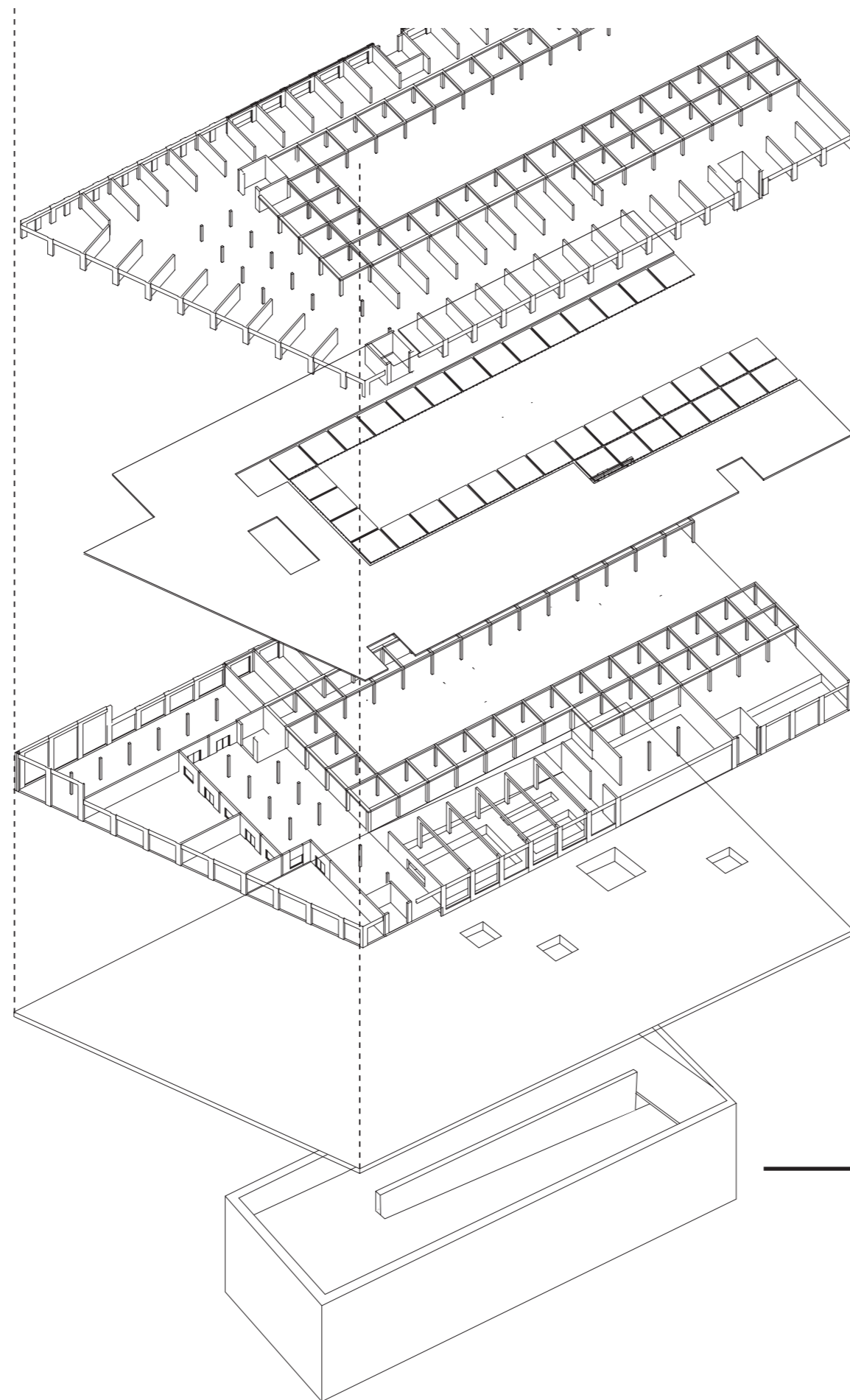


**Construction
time**



Renewable

Wooden construction



First floor vertical

- Accoya columns/beams
- CLT columns/beams

First floor horizontal

- Kerto ripa
- CLT floor

Ground floor vertical

- Accoya columns/beams
- CLT columns/beams

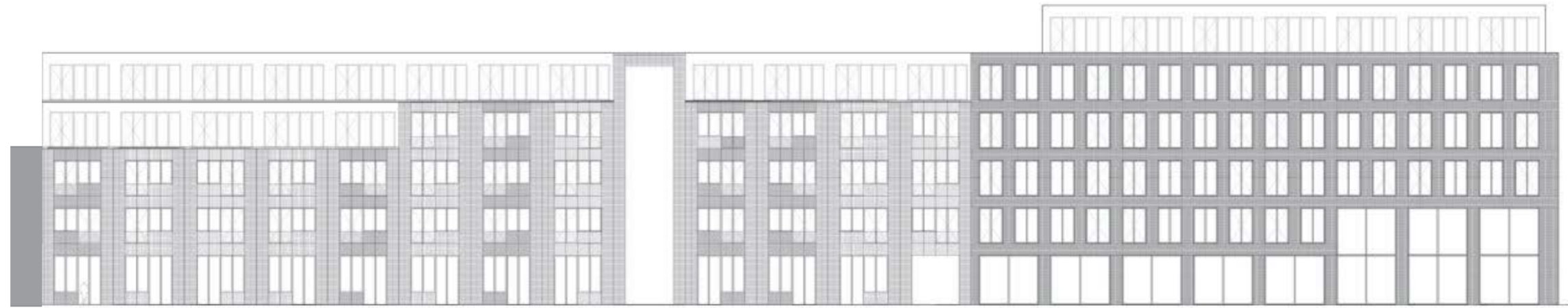
Ground floor horizontal

- concrete floor
- compartments for trees

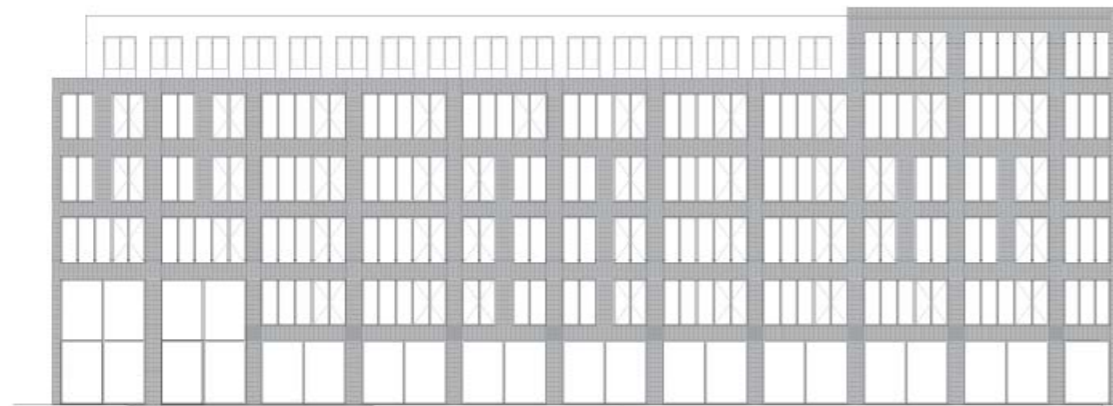
Parking garage

- concrete floor
- concrete walls/columns

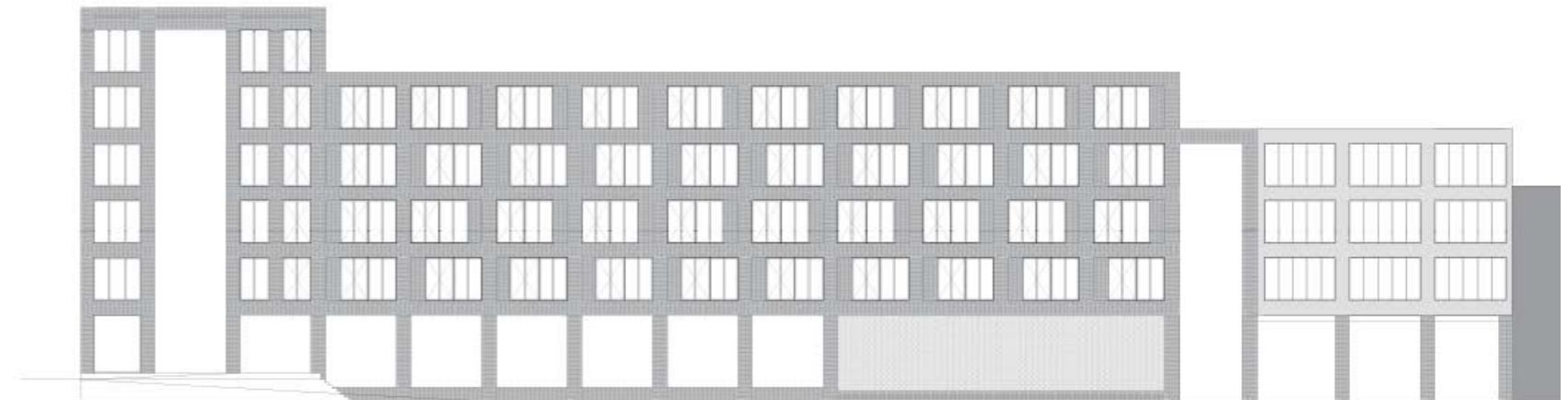
Context and Façade



park façade



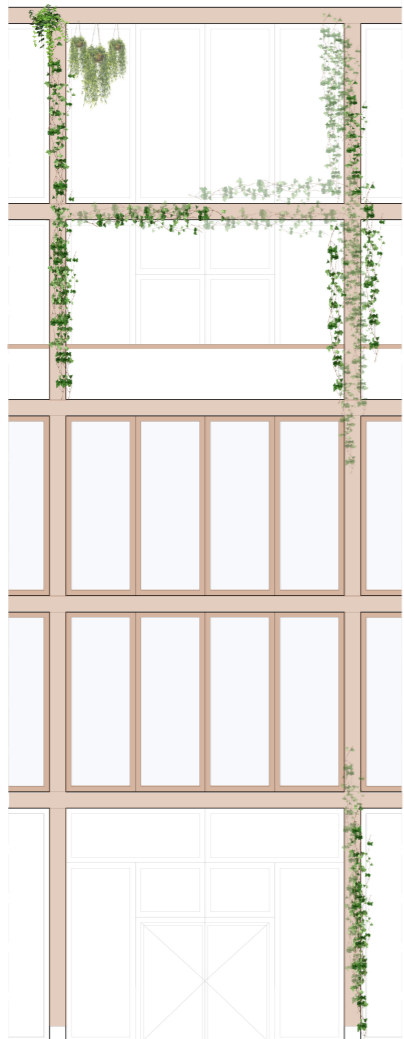
boulevard façade



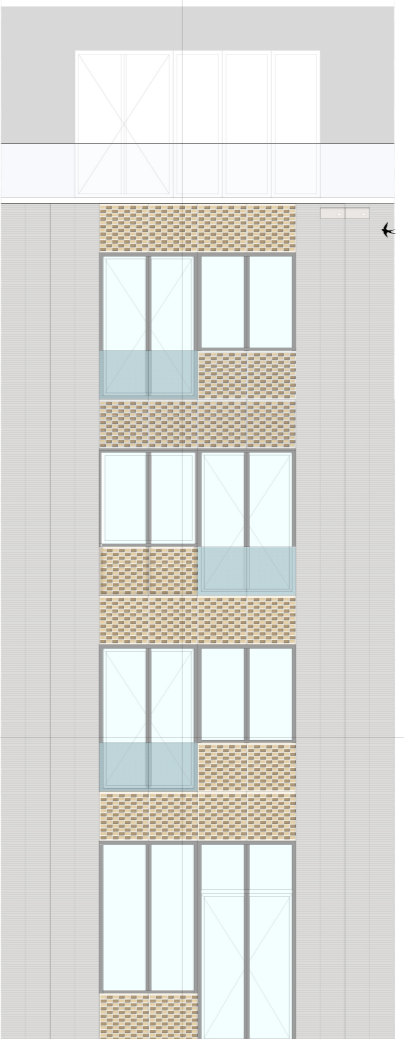
lane façade

Nature vs Urban

Nature



Urban



Cooler climate
- Single structure [Acrylic]
- Vertical garden

Transition climate
- Window frame construction
- Acrylic wood [1400x1400x100]
- Modular system, demountable construction
- Open kerbside floor panels

Warmer climate
- Window frame wall construction
- Elements plastered
- Wheelchair friendly apartments

Polder roof as foundation for green roof
[water storage to water vertical garden]

+ 19000

+ 15400

+ 11800

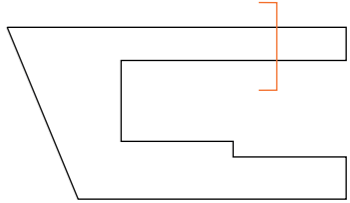
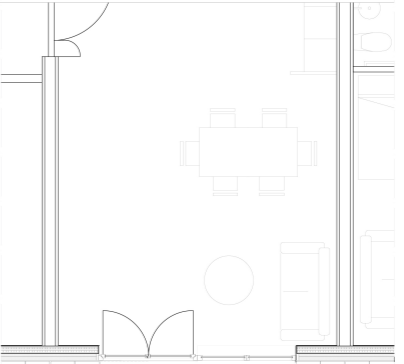
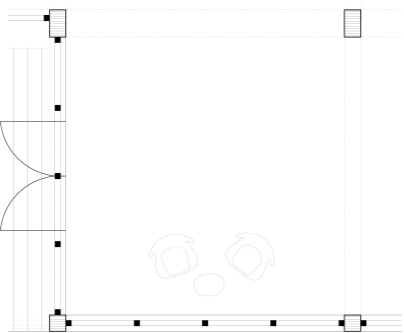
+ 8200

+ 4600

Arade

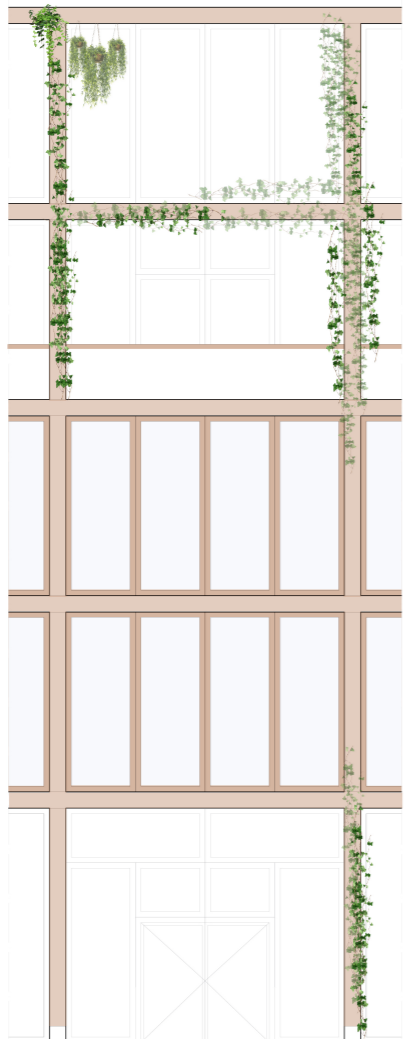
Floor heating

Urban facade
- Window structure covered with bricks
- Brick panel, 'longform' vertical window
- Slits and bar seating beam integrated in facade
- Perforated brick panel [300x300], different pattern for each panel
- Etched glass balustrade panels in pattern of brick panels

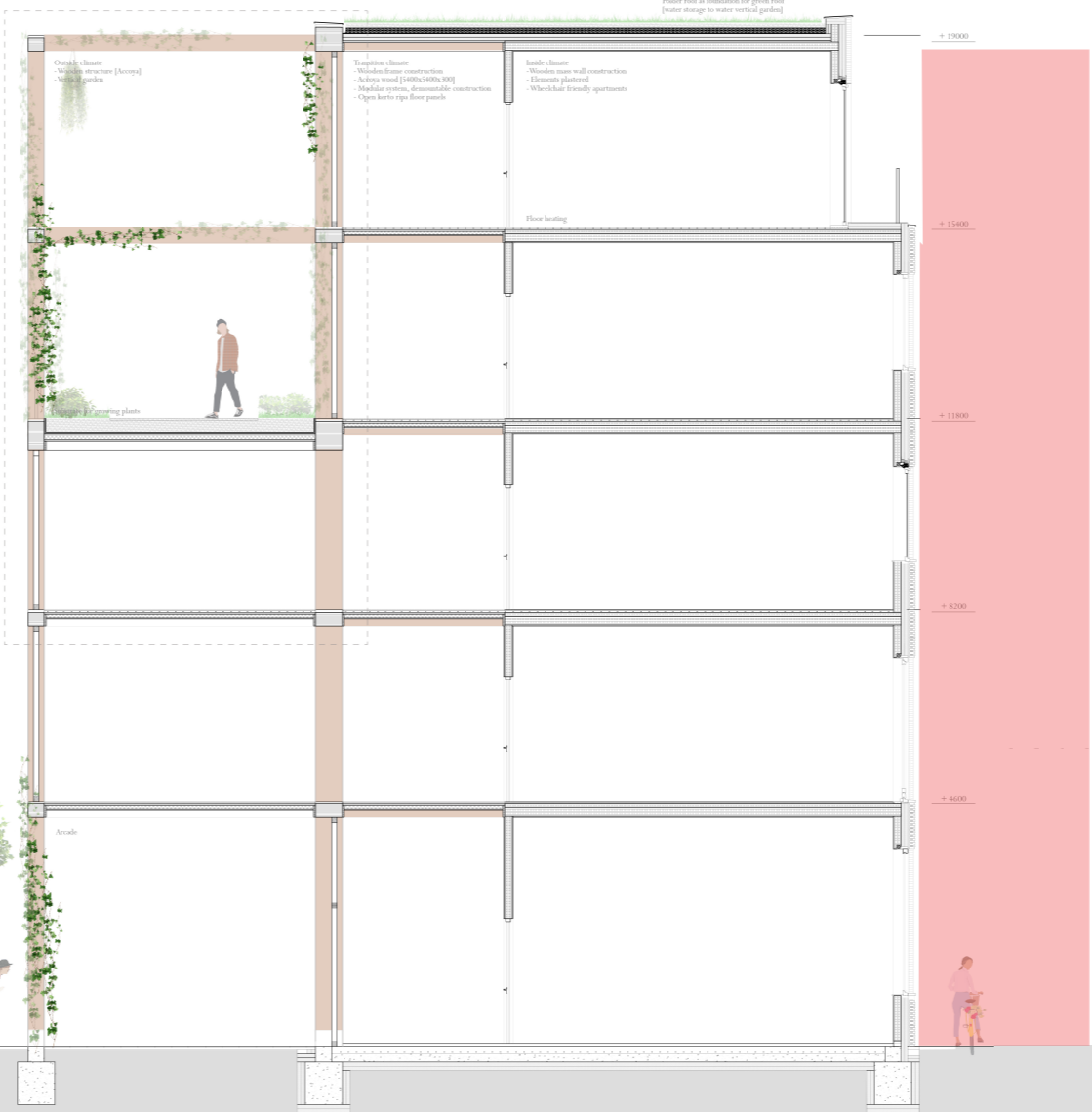
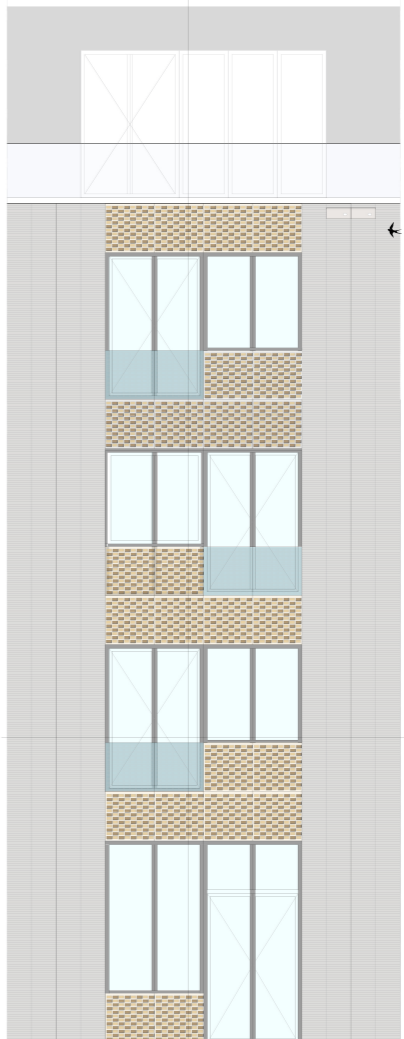


Nature vs Urban

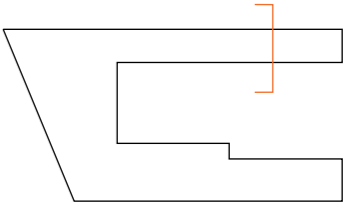
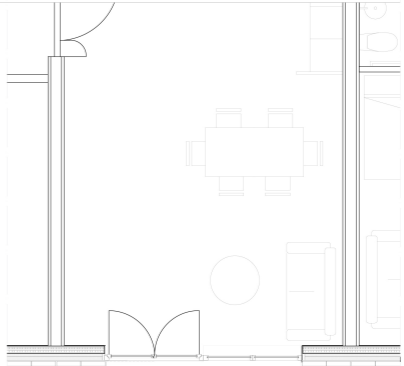
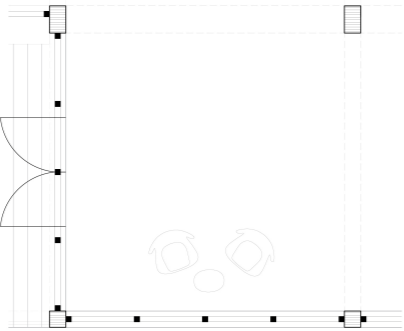
Nature



Urban

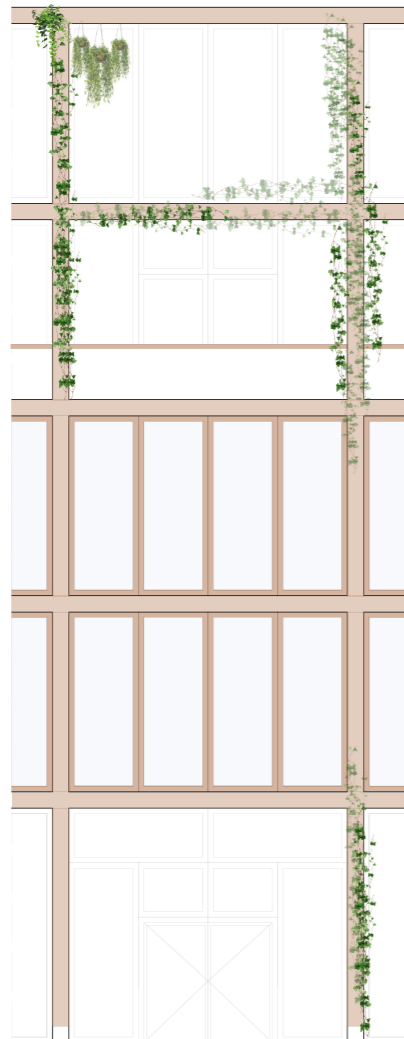


Urban facade
 - Wooden structure covered with bricks
 - Stack bond, "longform" vertical structure
 - Slats and horizontal beams integrated in facade
 - Perforated brick panels (300x300), different patterns for each grid
 - Etched glass balustrade panels in pattern of brick panels

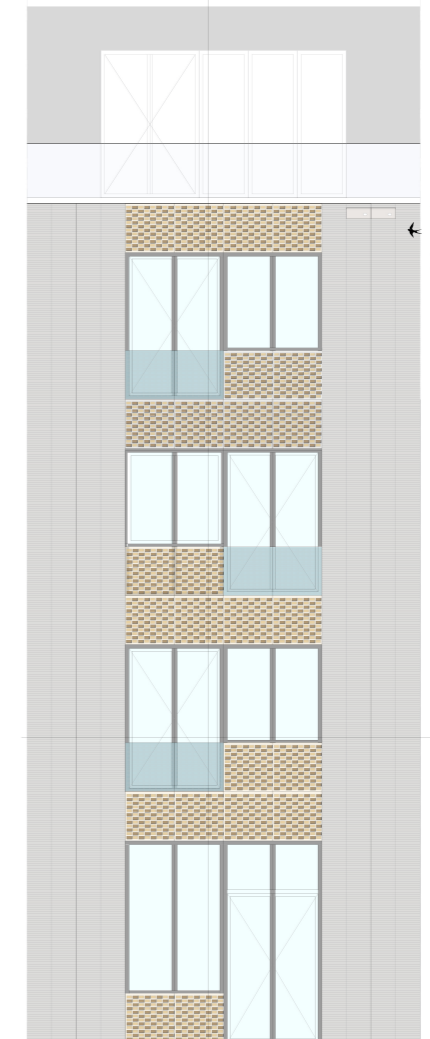


Nature vs Urban

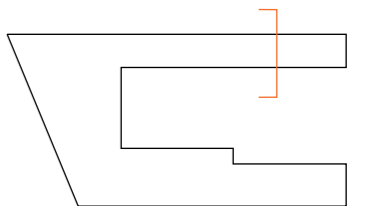
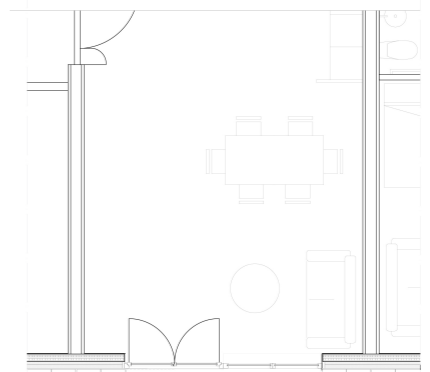
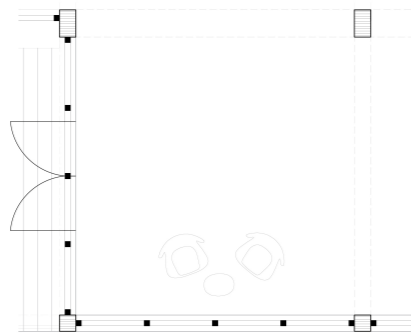
Nature



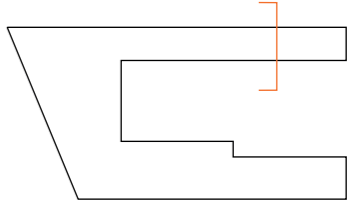
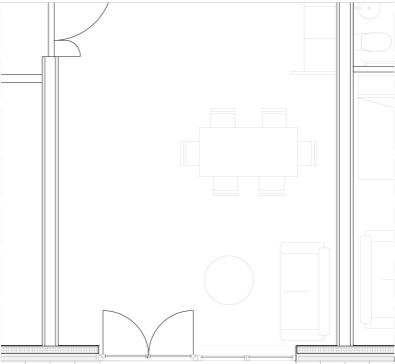
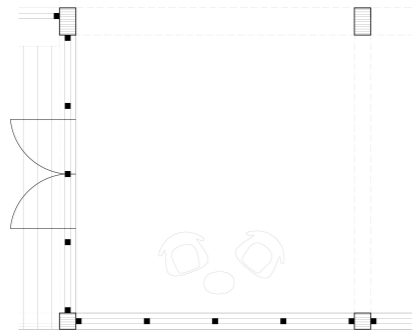
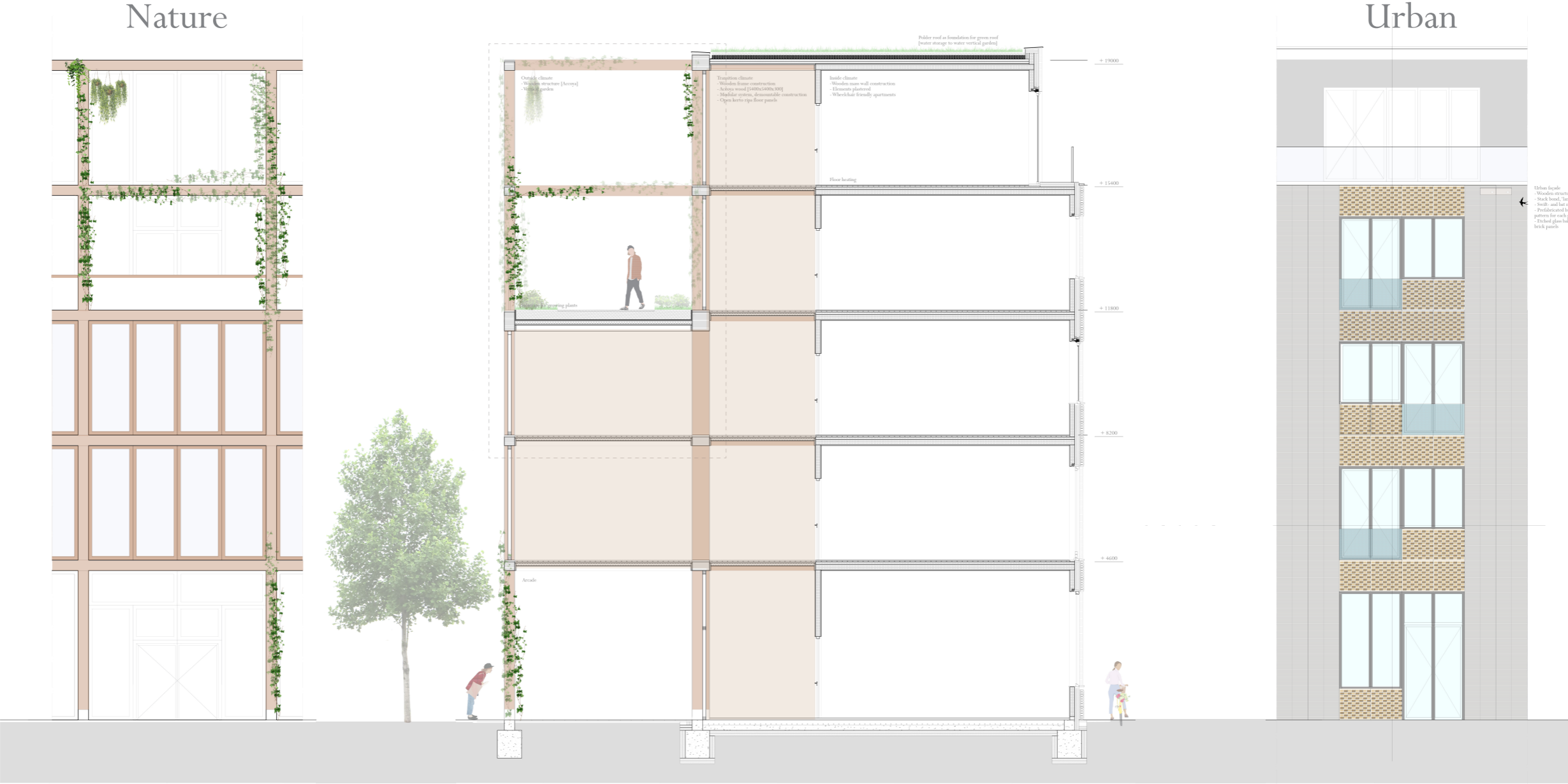
Urban



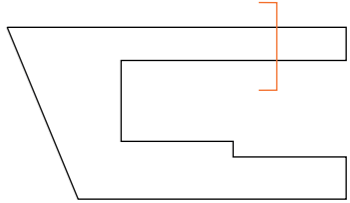
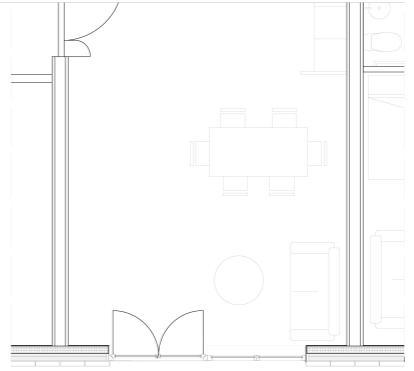
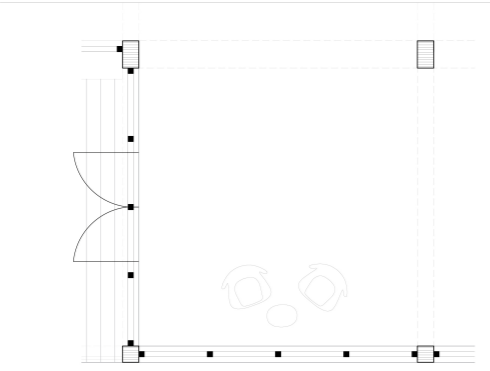
Urban facade
- Wooden structure covered with bricks
- Stack bond, "English" vertical window
- Steps and flat seating areas integrated in facade
- Perforated brick panels (300x300), different patterns for each panel
- Etched glass balustrade panels in pattern of brick panels



Nature vs Urban



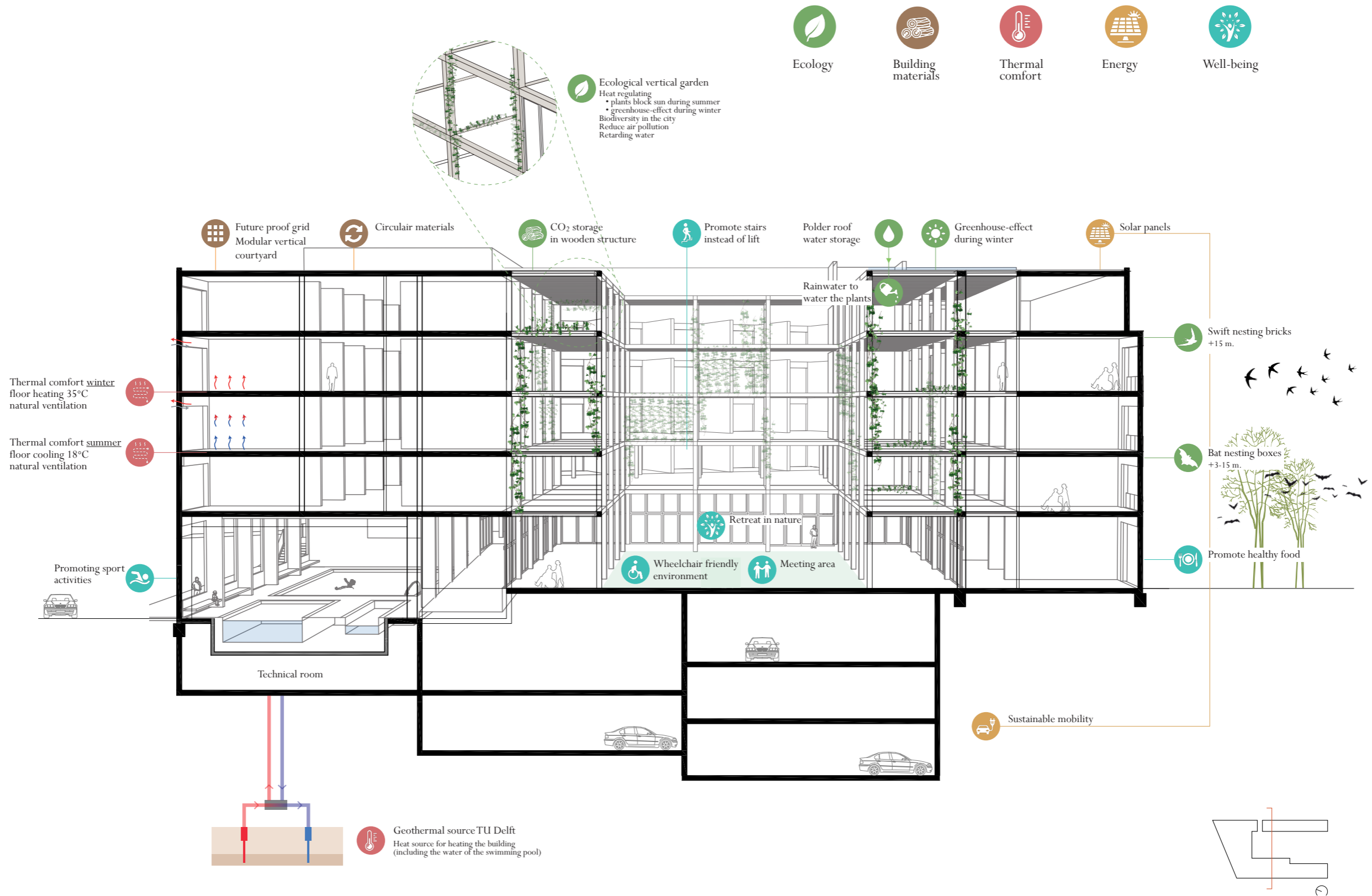
Nature vs Urban



Between zone / vertical garden



Healthy environment







Welkom in het *Verticale Hof*

Welkom in het *Verticale Hof*

Een omgeving die niet alleen zorgt voor ouderen

Welkom in het *Verticale Hof*

Een omgeving die niet alleen zorgt voor ouderen

Een omgeving die zorgt voor *á*lle generaties

Welkom in het *Verticale Hof*

Een omgeving die niet alleen zorgt voor ouderen
Een omgeving die zorgt voor álle generaties
En een omgeving die ook de omgeving verwelkomt

Welkom in het *Verticale Hof*

Een omgeving die niet alleen zorgt voor ouderen
Een omgeving die zorgt voor *á*lle generaties
En een omgeving die ook de omgeving verwelkomt

Een omgeving waarin mensen

Welkom in het *Verticale Hof*

Een omgeving die niet alleen zorgt voor ouderen
Een omgeving die zorgt voor *á*lle generaties
En een omgeving die ook de omgeving verwelkomt

Een omgeving waarin mensen
elkaar omgeven

Welkom in het *Verticale Hof*

Een omgeving die niet alleen zorgt voor ouderen
Een omgeving die zorgt voor *á*lle generaties
En een omgeving die ook de omgeving verwelkomt

Een omgeving waarin mensen
elkaar omgeven
en om elkaar geven



Bedankt

Extra slide: Recommendations for Pieter van Foreest



Stap 1

Verwachtingen van zorg

Rond de tafel gesprekken

Resultaat: duidelijk krijgen hoe professionele zorg georganiseerd zal zijn en wat men van elkaar en sociaal netwerk kan verwachten

Extra slide: Recommendations for Pieter van Foreest



Stap 1

Verwachtingen van zorg

Rond de tafel gesprekken

Resultaat: duidelijk krijgen hoe professionele zorg georganiseerd zal zijn en wat men van elkaar en sociaal netwerk kan verwachten

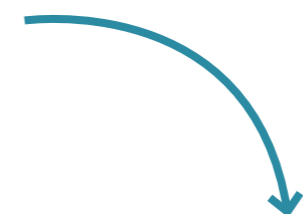


Stap 2

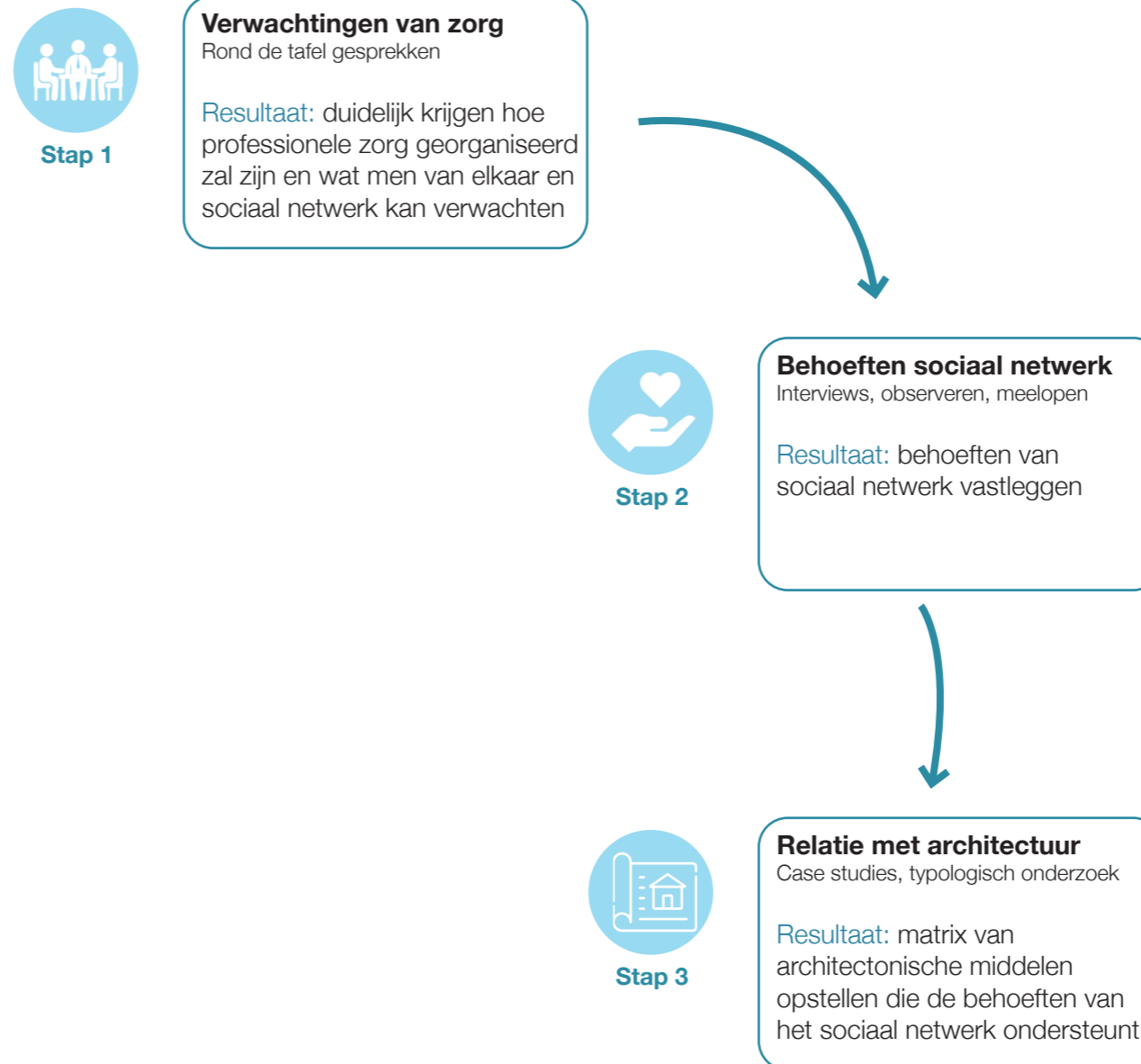
Behoeften sociaal netwerk

Interviews, observeren, meelopen

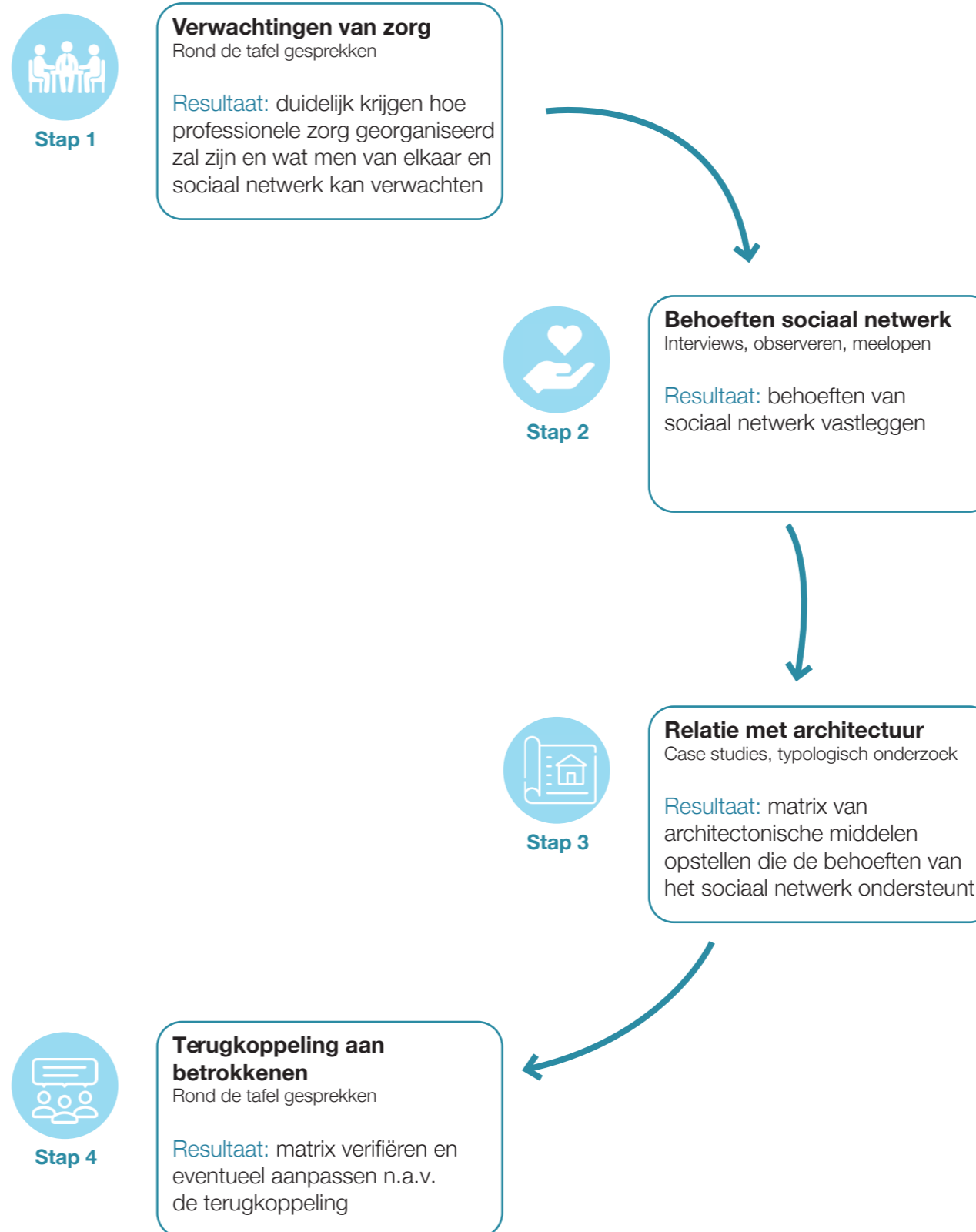
Resultaat: behoeften van sociaal netwerk vastleggen



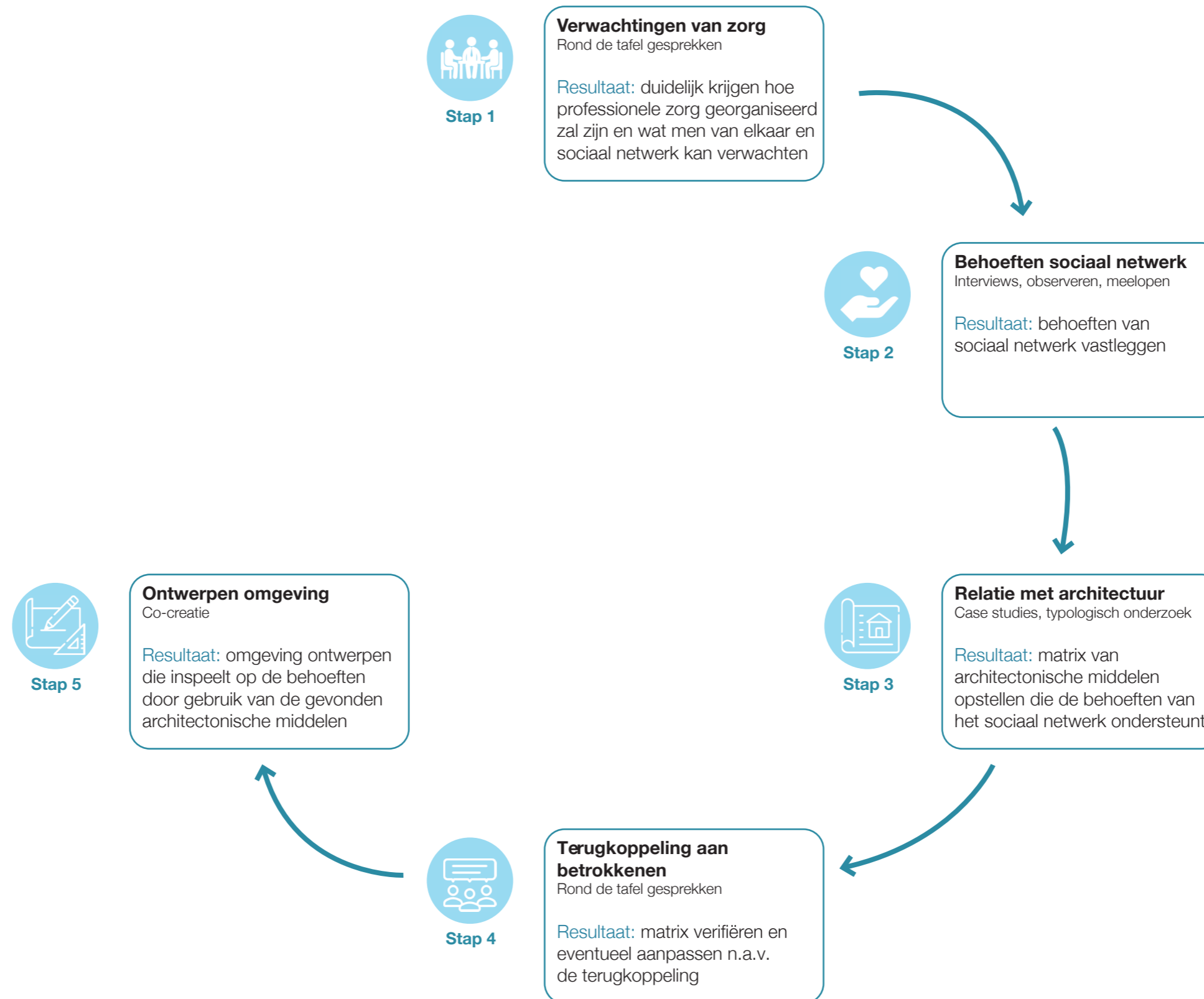
Extra slide: Recommendations for Pieter van Foreest



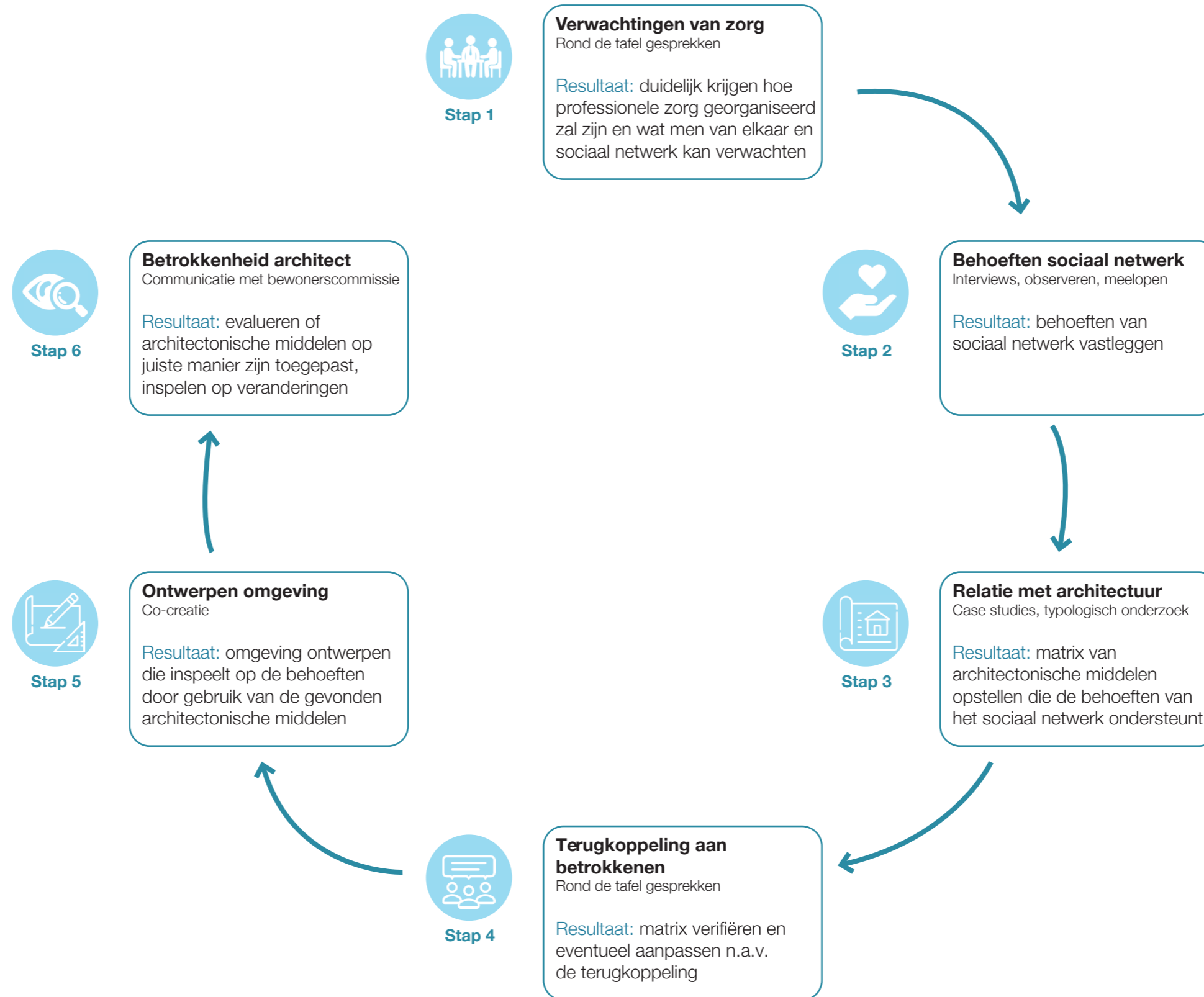
Extra slide: Recommendations for Pieter van Foreest



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