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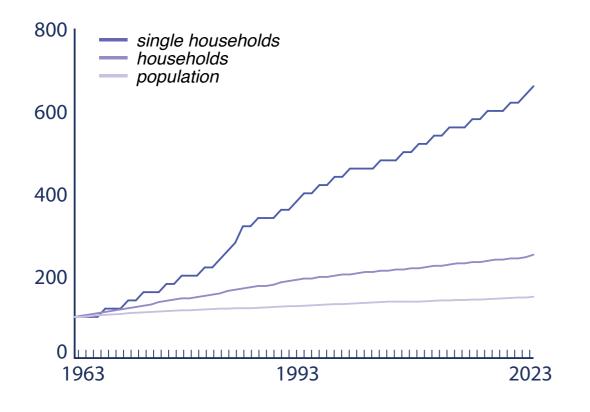
- Fascination & relevance
- Problem statement
- Research
- Design principles
- Design
- Detailing
- Strategies

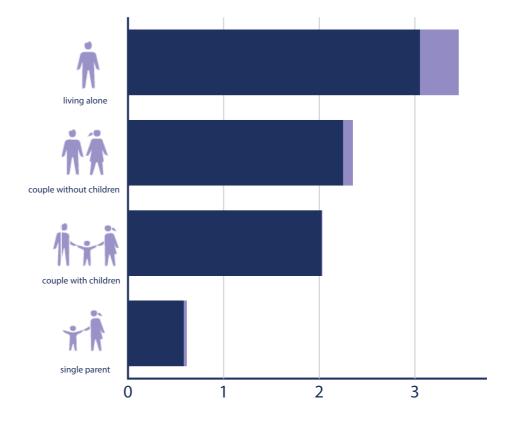


HK policymakers focusing on ways to fix housing issue - (China Daily, 2019)



Meer mensen, minder ruimte: het woningtekort is niet zomaar opgelost - (Schuttenhelm, 2024)





Population growth in relation to household types: by Author - data: (Centraal Bureau voor de Statistiek);

Households by types: by Author - data: (Centraal Bureau voor de Statistiek, 2018a)

Problem statement

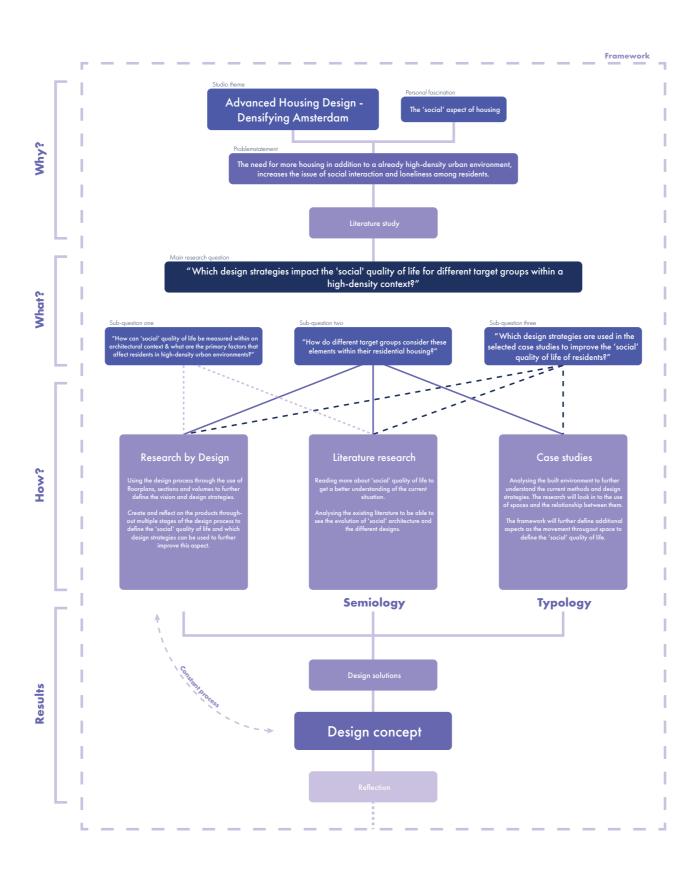
"The need for more housing within an already high-density urban environment, increases the issue of social interaction among residents, this decrease in the quality of social life makes creating a socially sustainable environment within a high-density context even more challenging"

Research Question

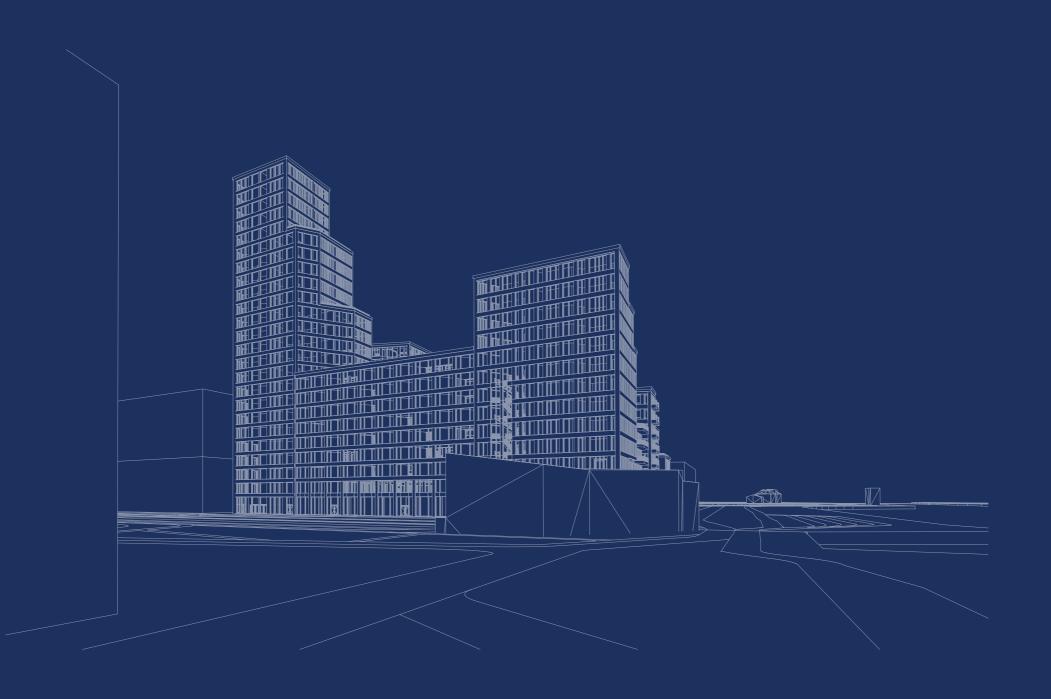
Co-Housing "Which design **Programm & Typology Public & Private spaces Transitional & interme**diate spaces strategies im-**Communities** pact the 'social' Influence **Ownership Participation** quality of life for **Students** different target **Starters Families Elderly** groups within a high density-**Densification** context?"

Human-centred design

Methodology



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Research

Literature

Quotes

Er is een wereld tussen die van de intieme (prive) en de anonieme in: de wereld van de groep.

- I. Altman (1972)

Public space, as the place where strangers meet (Sennett 1992a: 719), is meaningful, imaginary and symbolic (Watson 2002: 55). Seen as a fluid continuum, public space is contested through various forms of appropriation of space.

- T. Blokland (2017)

Groepen bestaan vaak ook uit groepen: privacy gaat in een eindeloze reeks van zones

- M. van Dorst (2005)

Personas

Target groups

Student

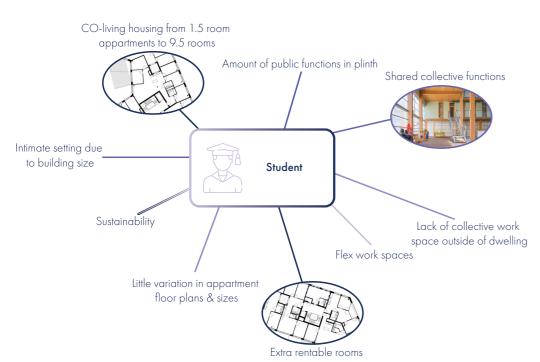


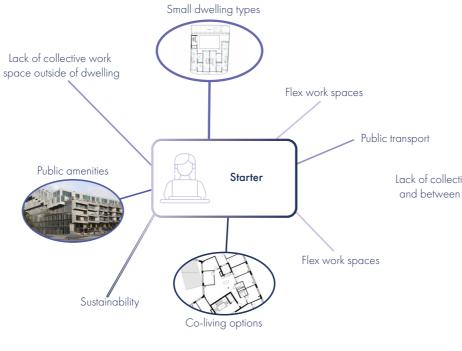
Starter

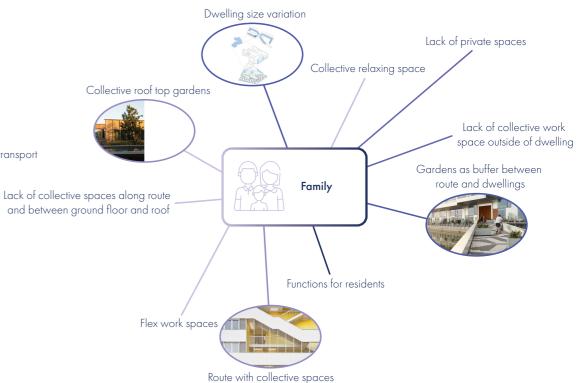


Family







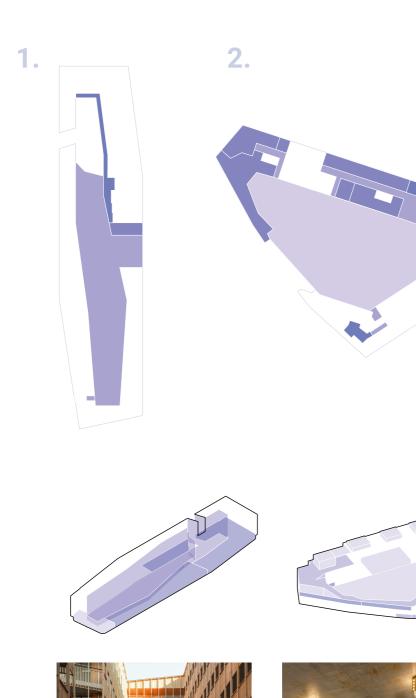


Collective spaces

Jonas - orange architects

☐ Kalkbreite - Müller Sigrist Architekten
☐ 8 House - BIG
☐ Torre Júlia - Pau Vidal, Sergi Pons & Ricard Galiana 🔀 La Borda - Lacol

Case studies

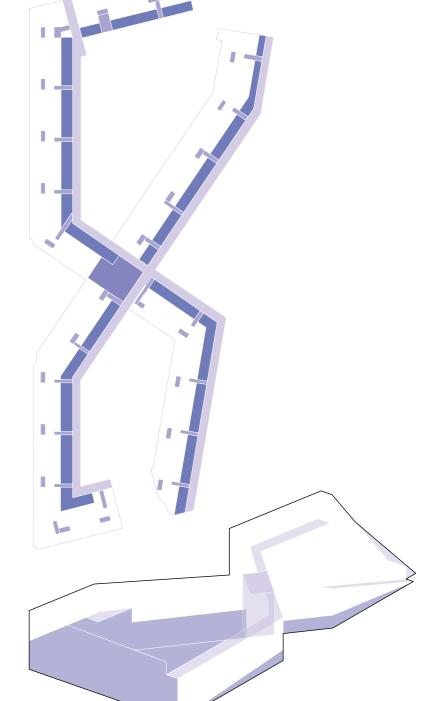


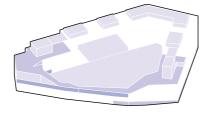


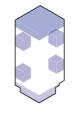


























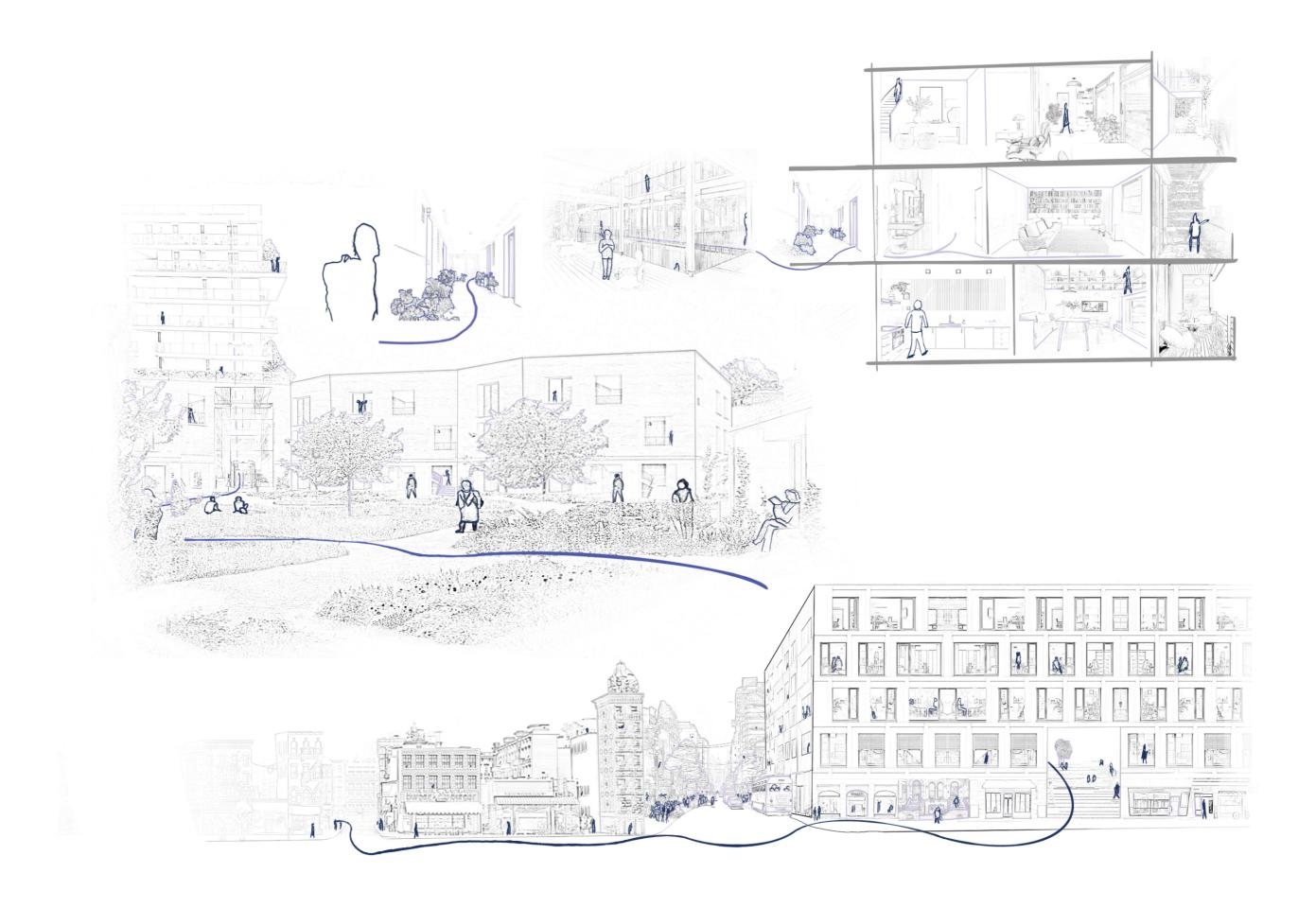


5

Findings



Cancel the Corridor - (Kemper, 2024)



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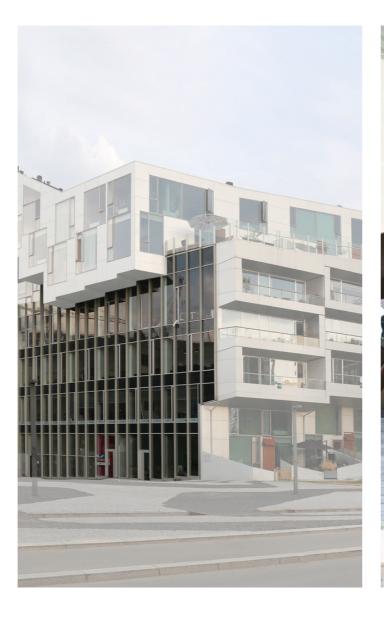
City scale





(Luft et al., 2010), (Egloff & Stollenwerk, 2019)

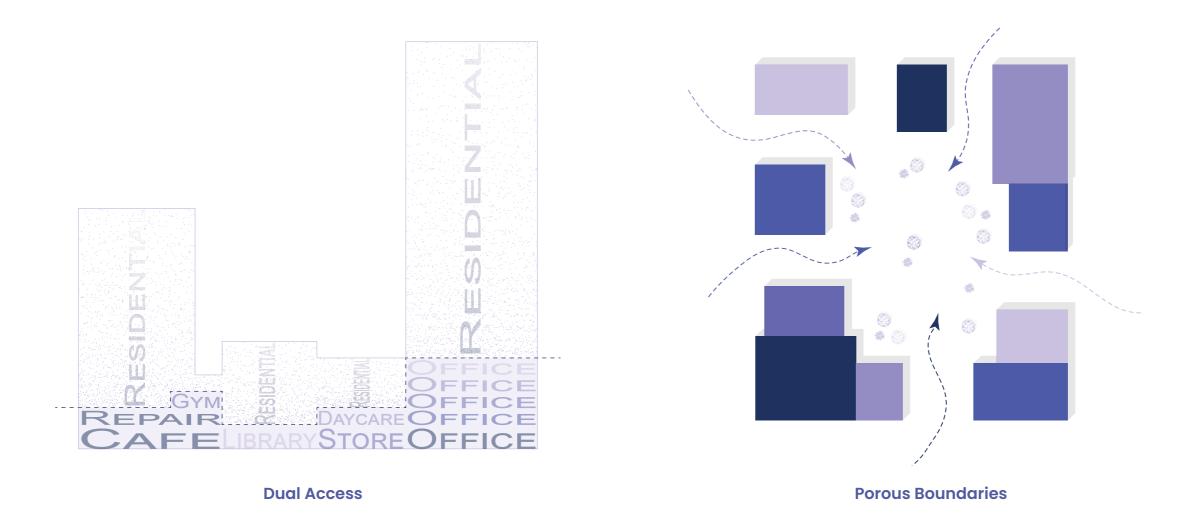
City scale



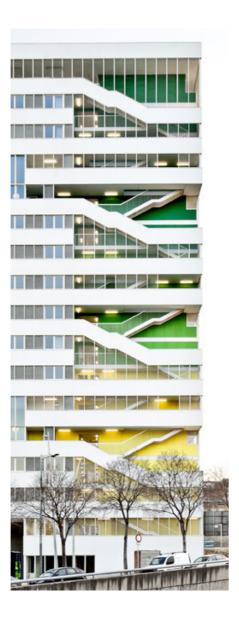


(Luft et al., 2010), (Egloff & Stollenwerk, 2019)

City scale



Neighbourhood scale





(Ferrando, 2022), (Egloff & Stollenwerk, 2019)

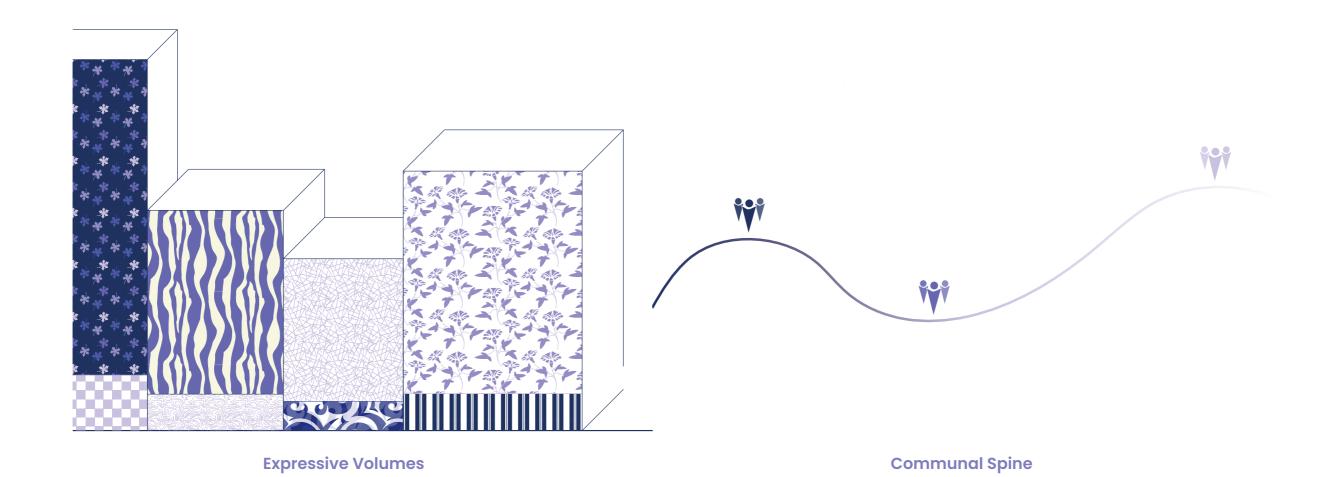
Neighbourhood scale

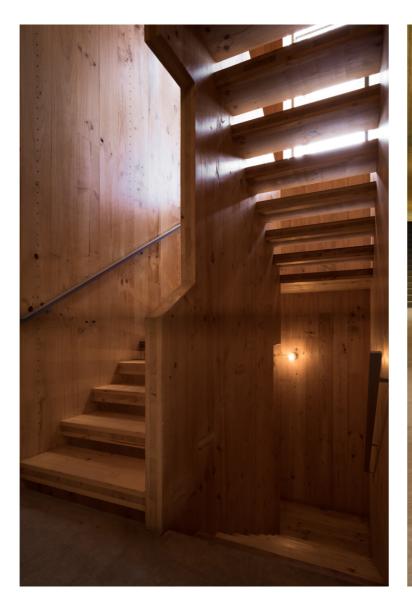




(Ferrando, 2022), (Egloff & Stollenwerk, 2019)

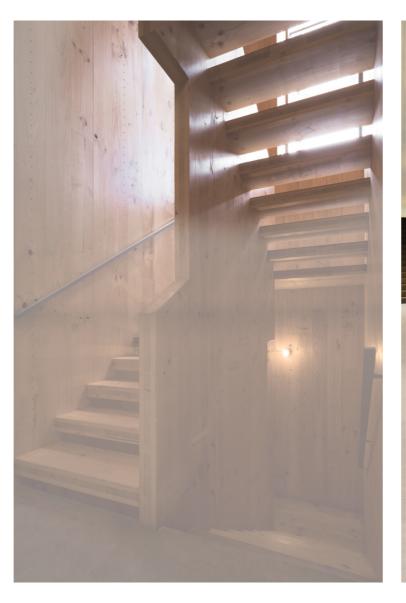
Neighbourhood scale





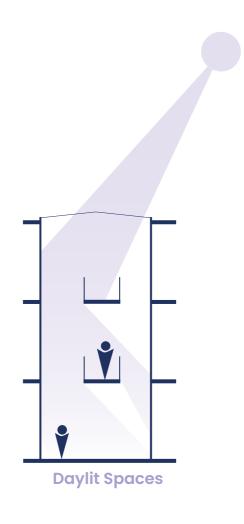


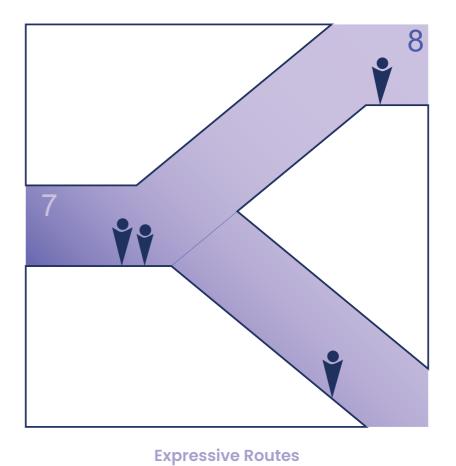
(Miralles & Lacol, 2019), (Egloff & Stollenwerk, 2019)





(Miralles & Lacol, 2019), (Egloff & Stollenwerk, 2019)







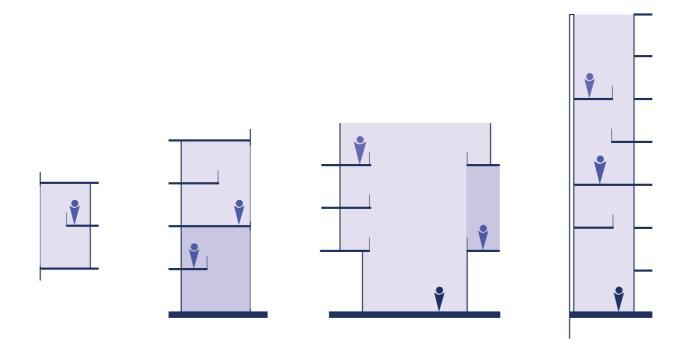


(Ferrando, 2022), (Egloff & Stollenwerk, 2019)





(Ferrando, 2022), (Egloff & Stollenwerk, 2019)



Layered Interaction

Individual scale





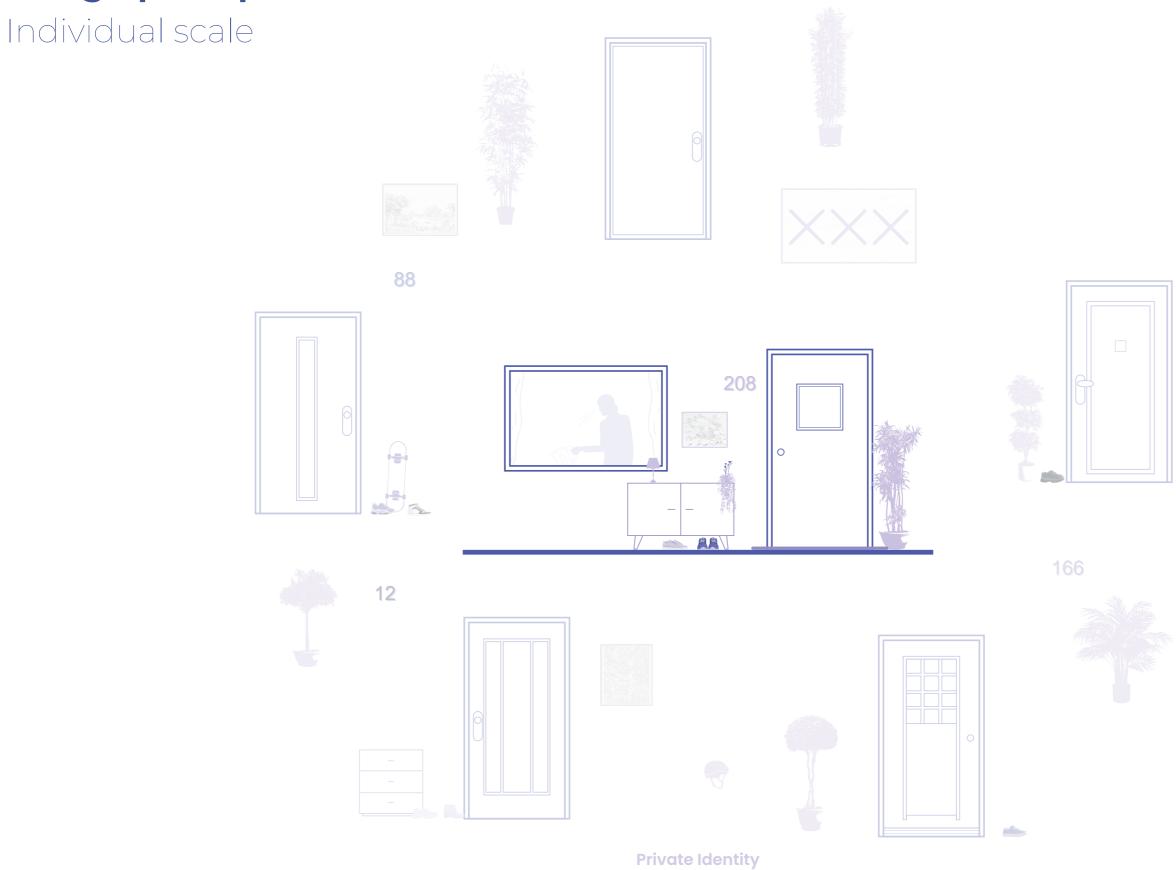
(Ferrando, 2022), (Miralles & Lacol, 2019)

Individual scale



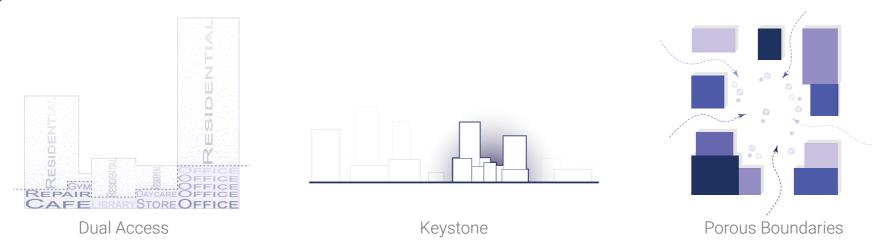


(Ferrando, 2022), (Miralles & Lacol, 2019)

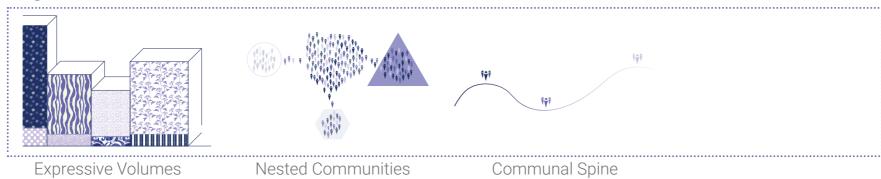


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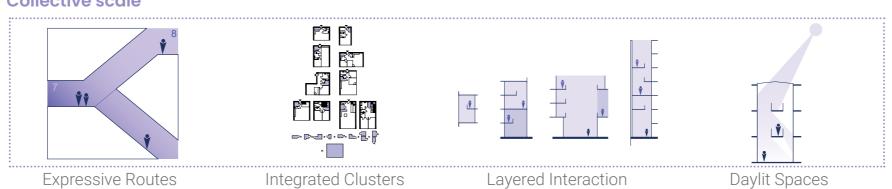
City scale



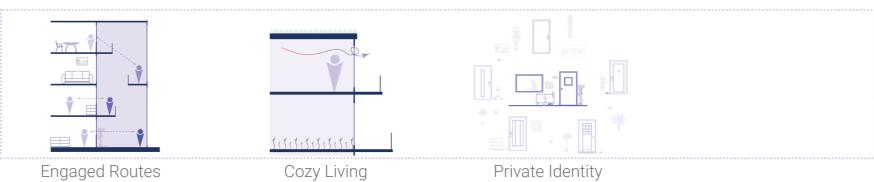
Neighbourhood scale



Collective scale



Individual scale



Cozy Living

Private Identity



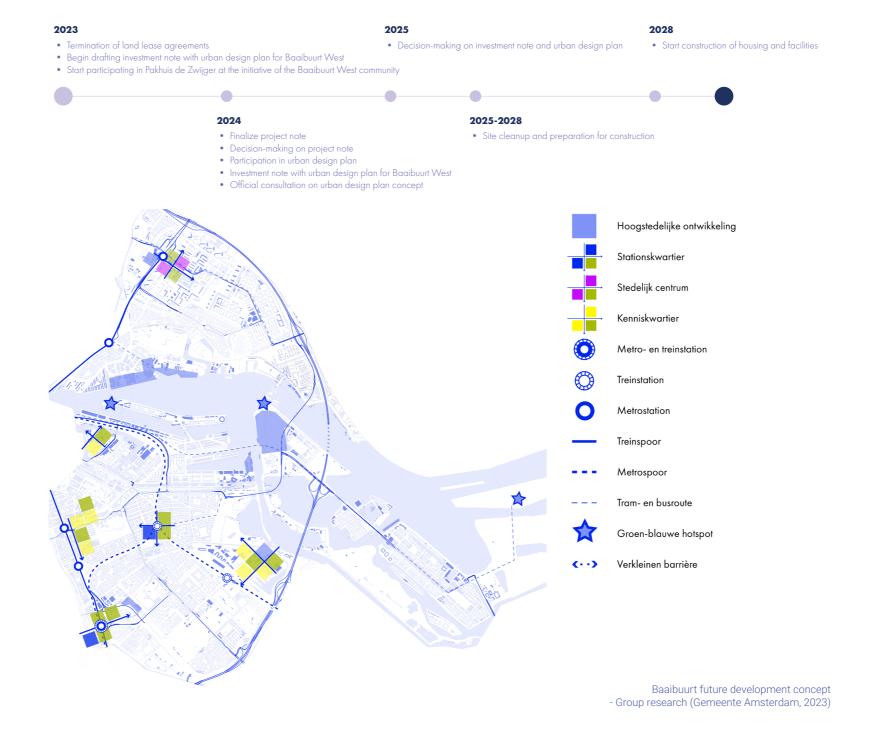
Location



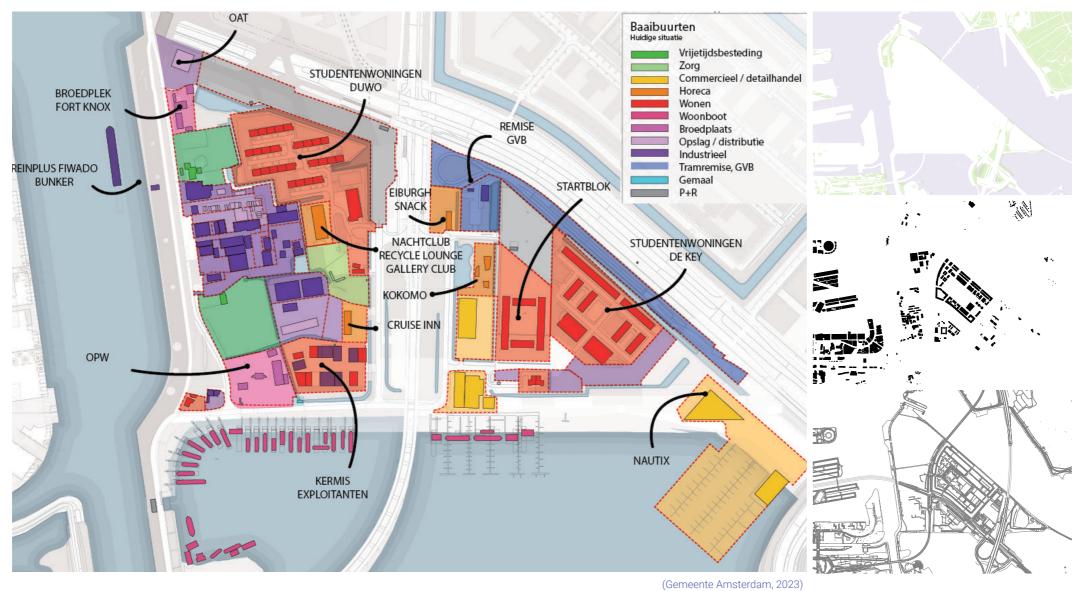


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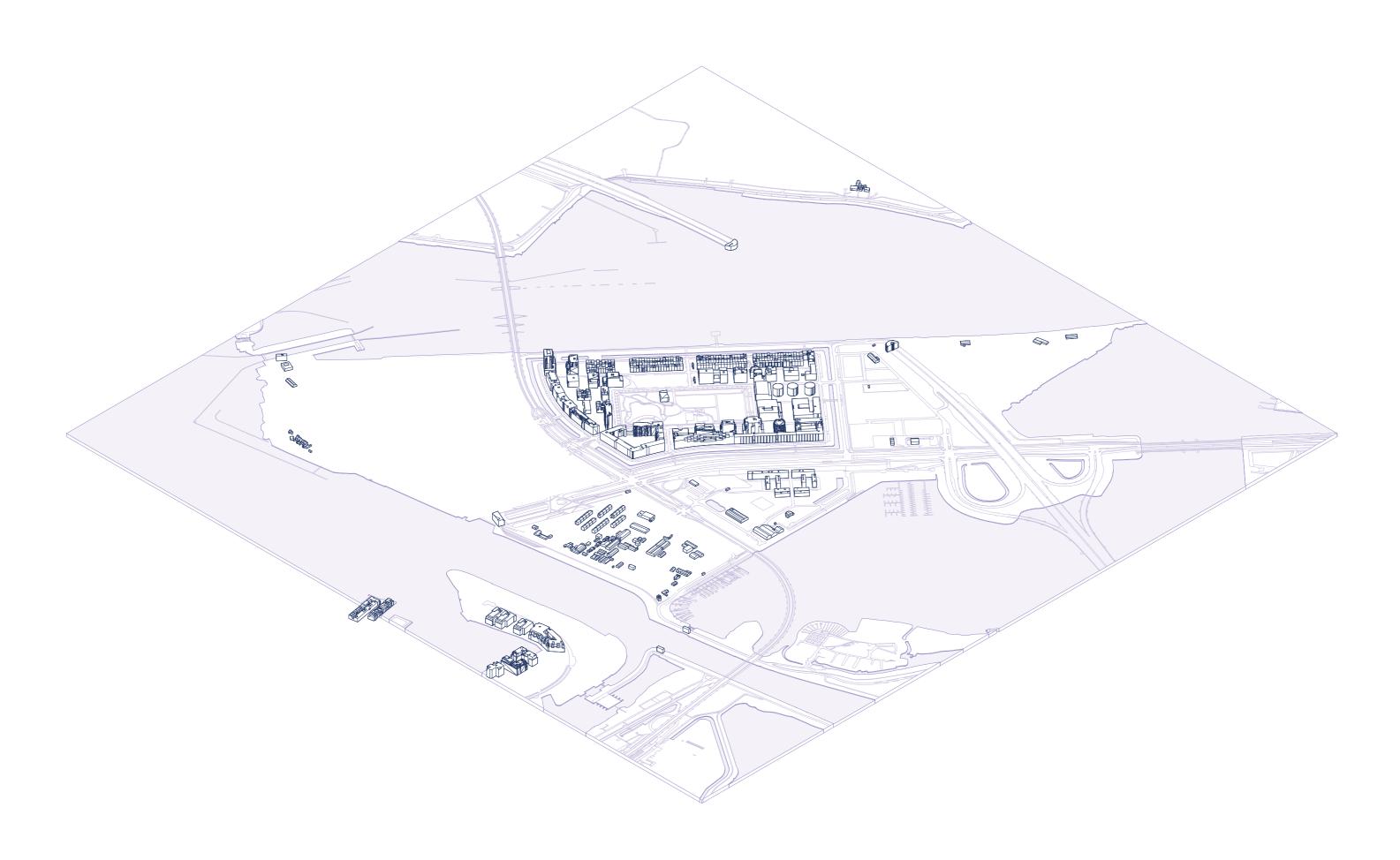


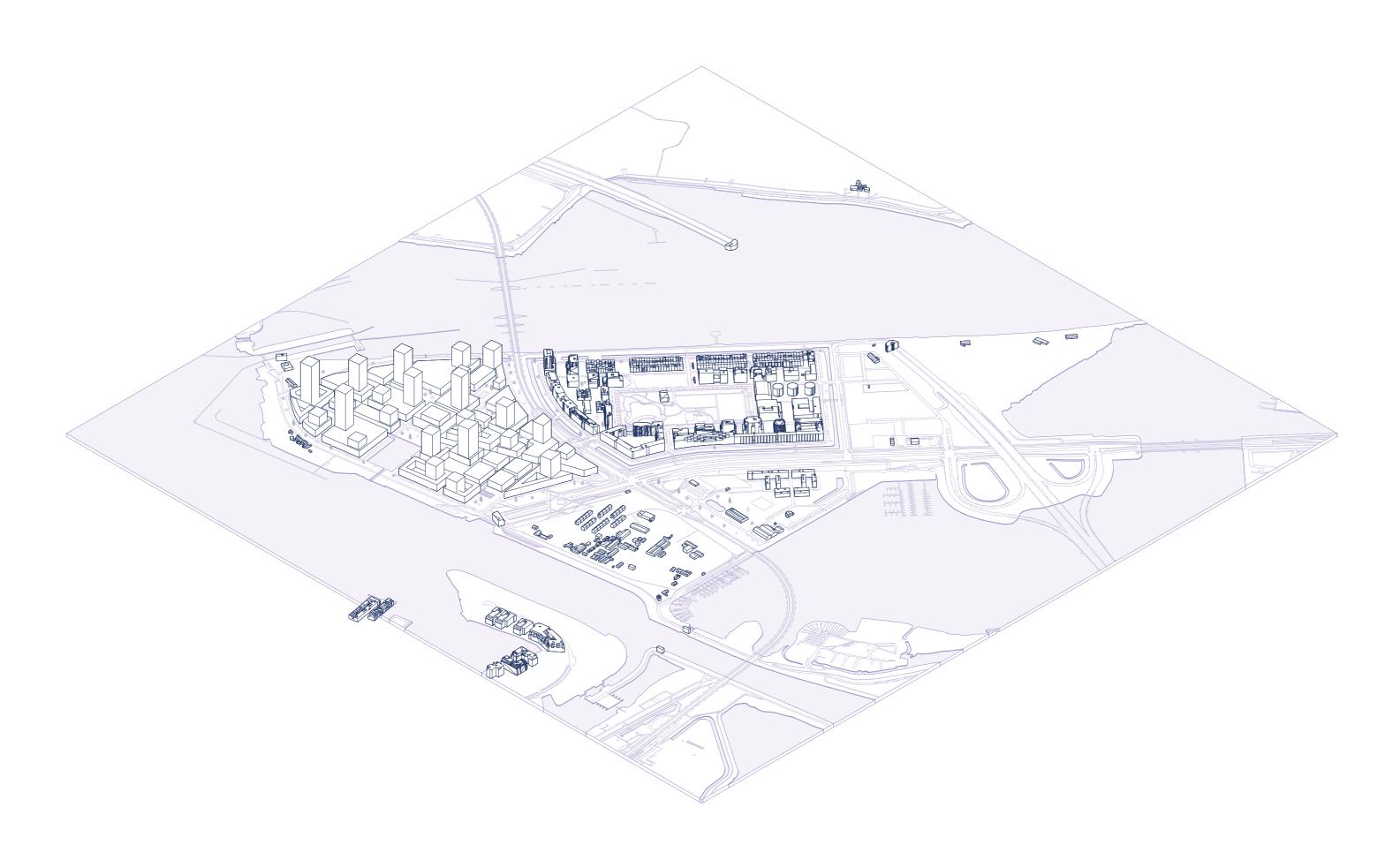


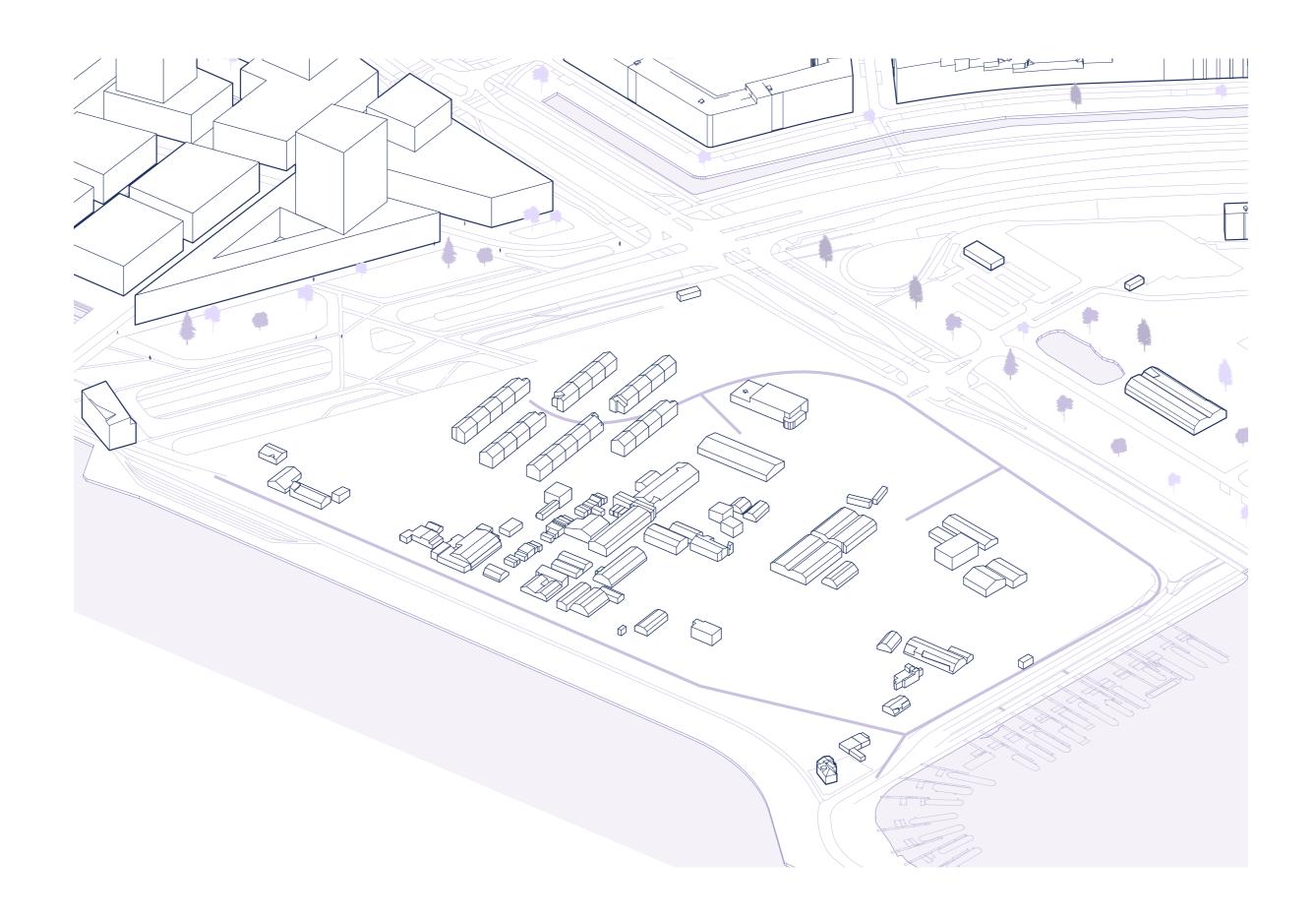


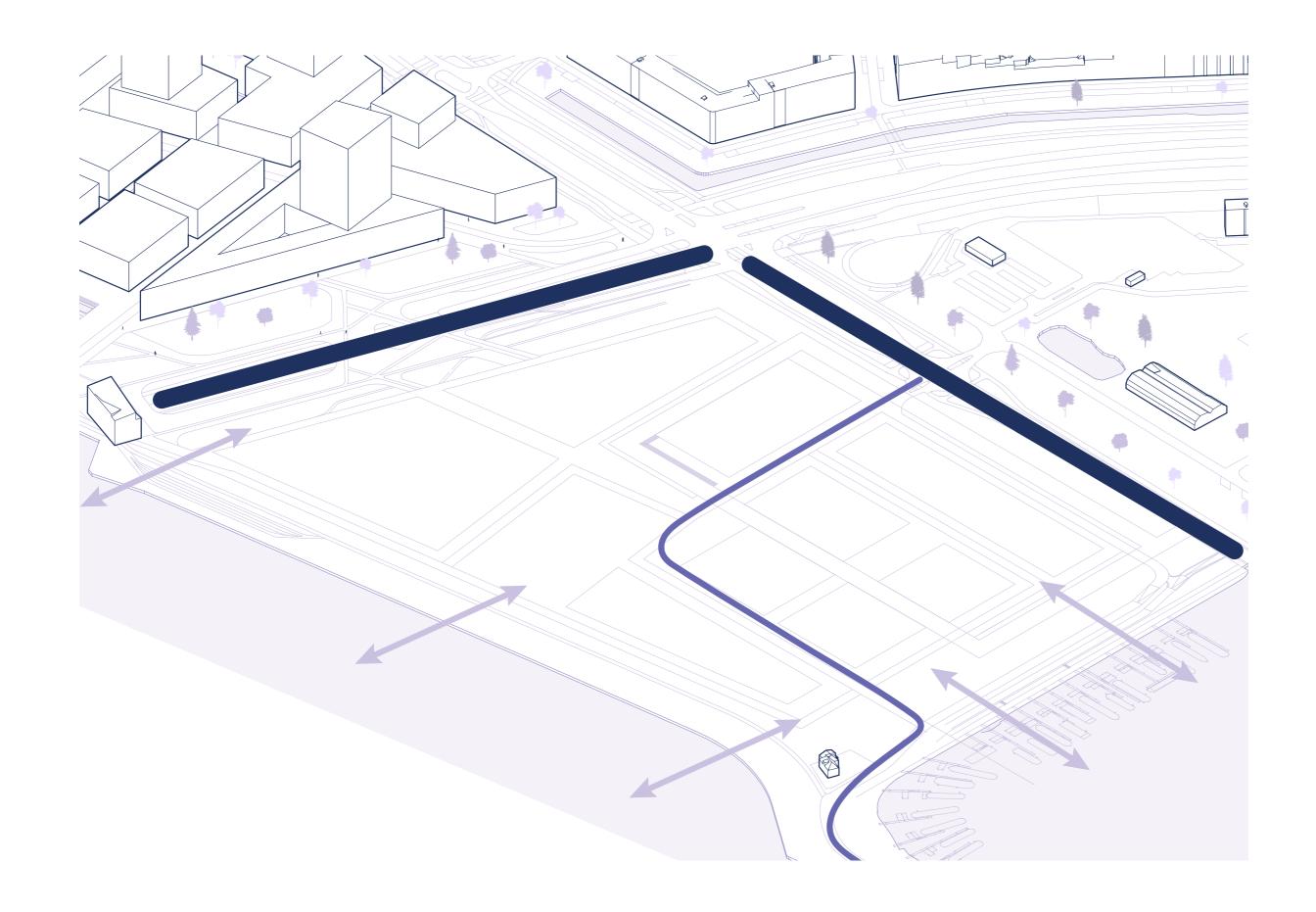


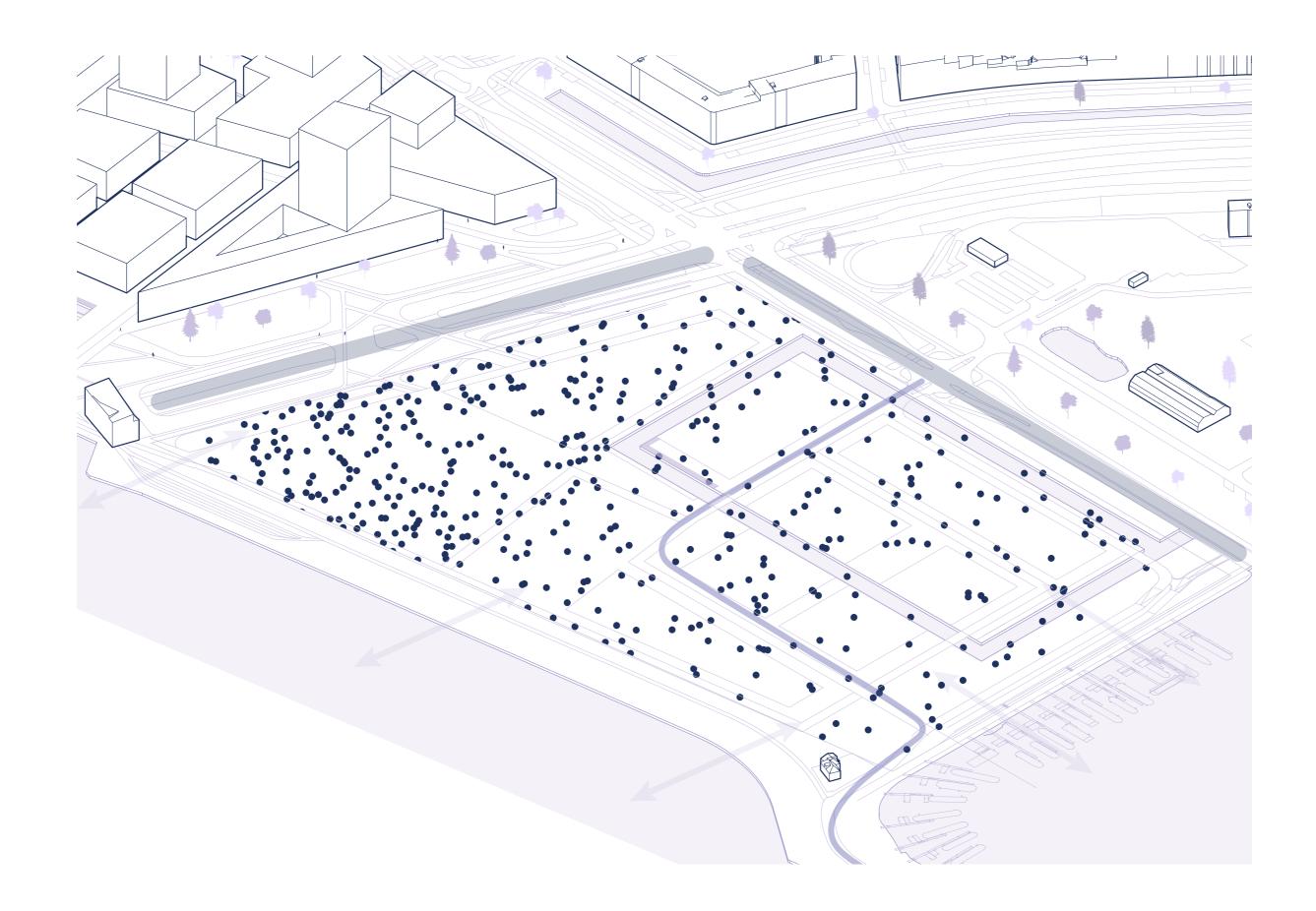
Design

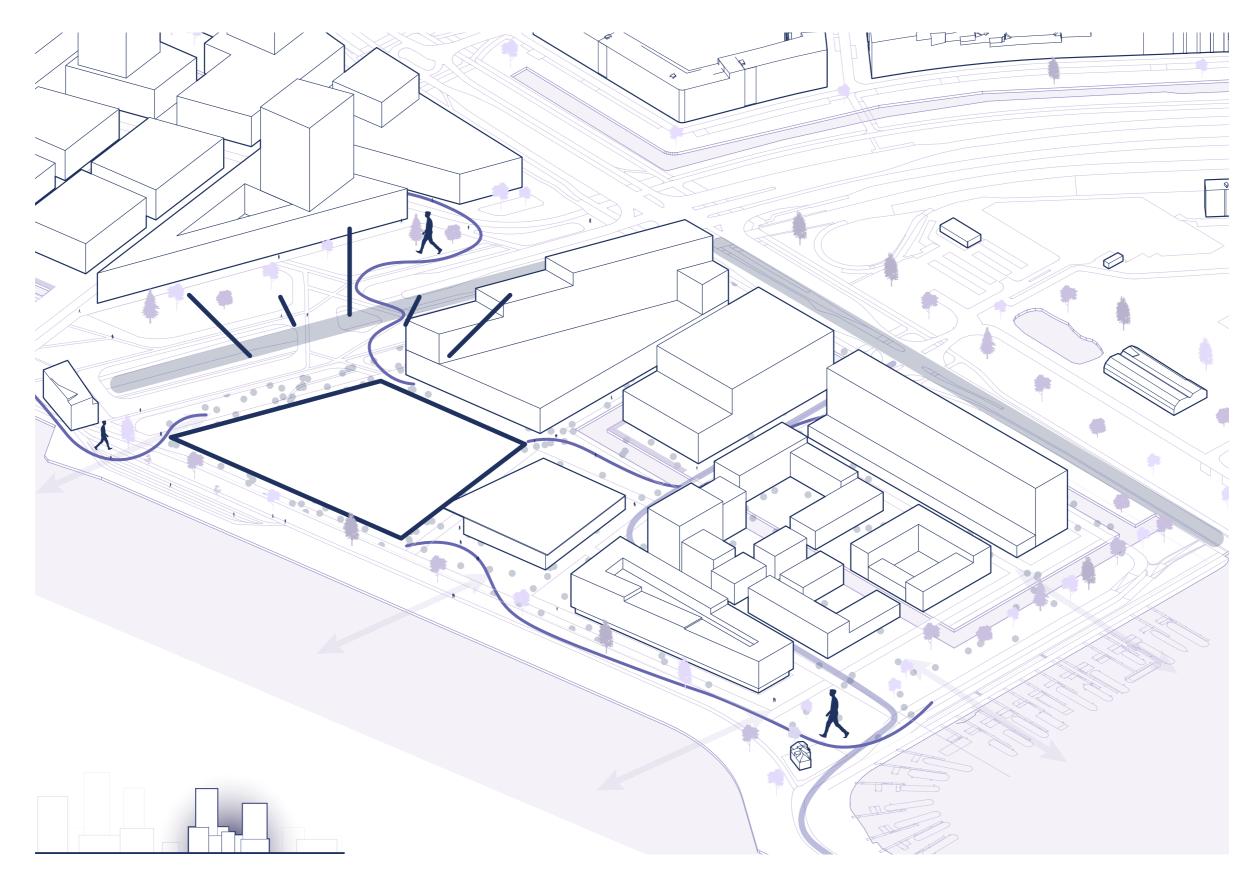






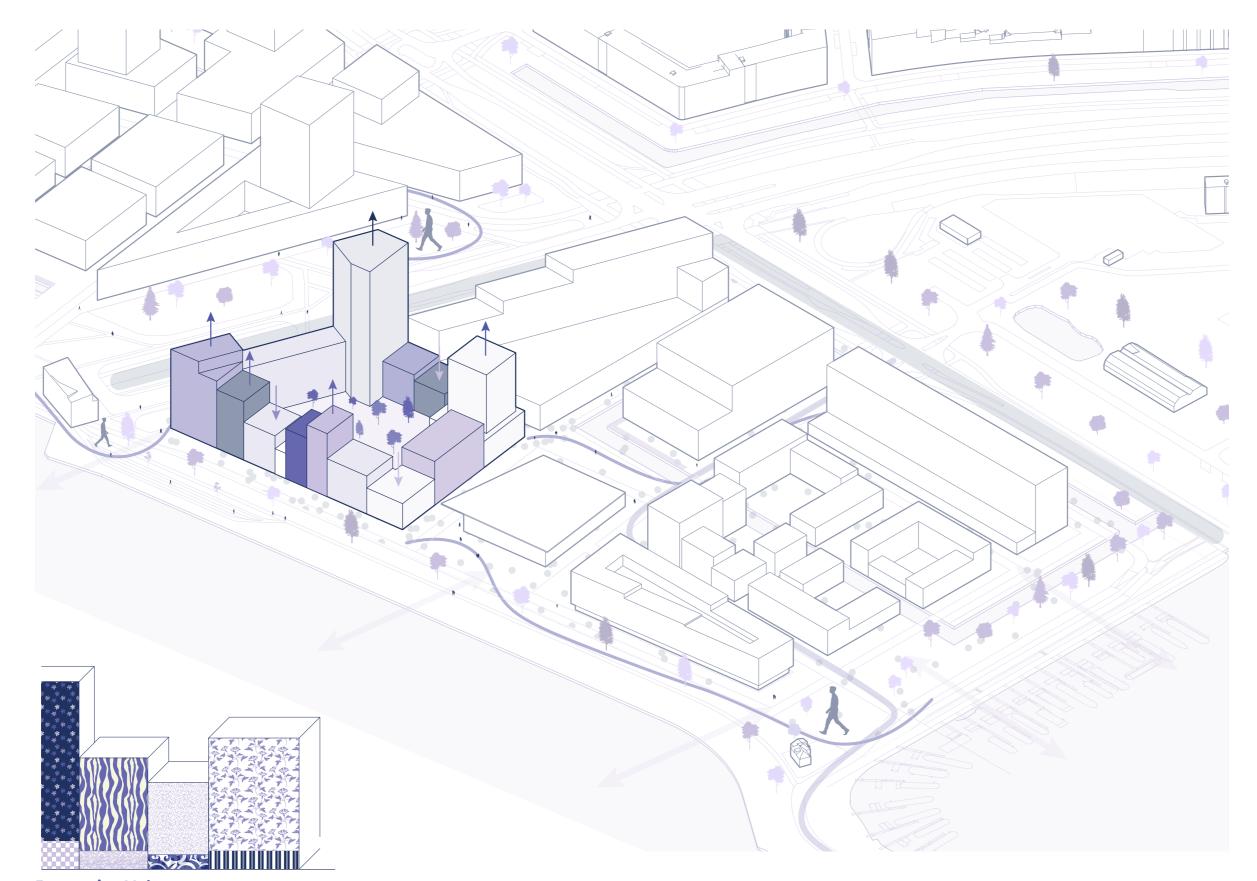






Keystone





Expressive Volumes

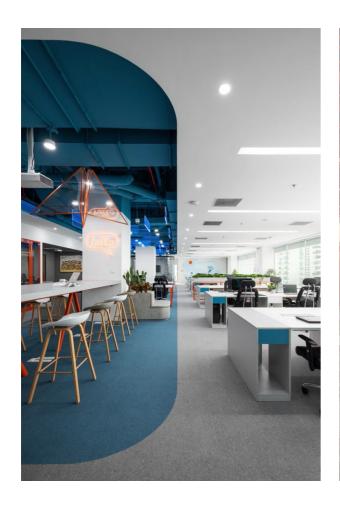




Dual Access

Public spaces

Impression

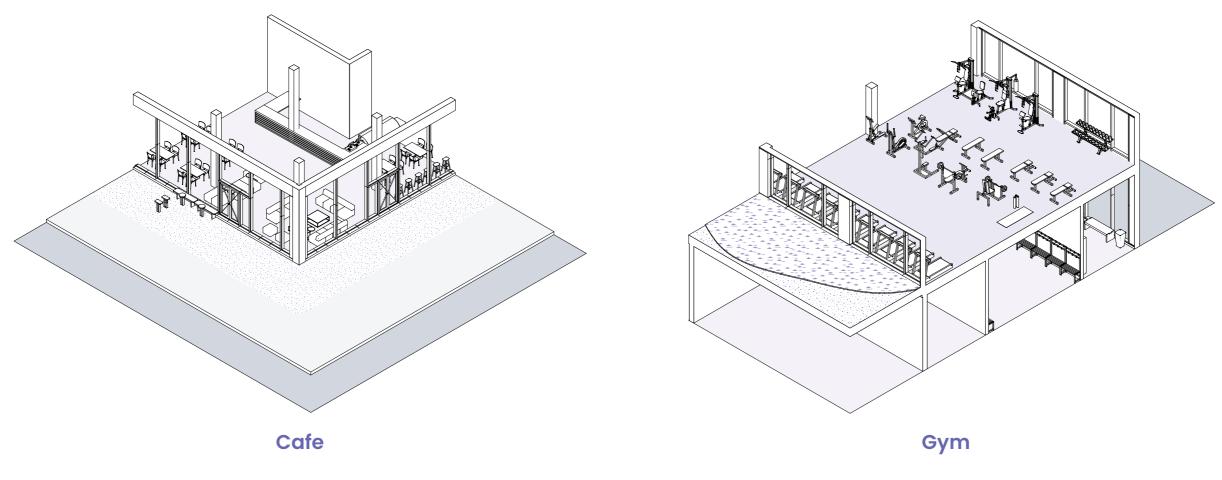


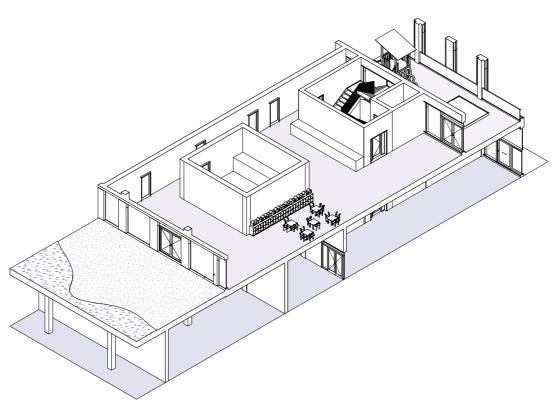






Advanced Housing - P5 presentation Ryan Daun - 5709164



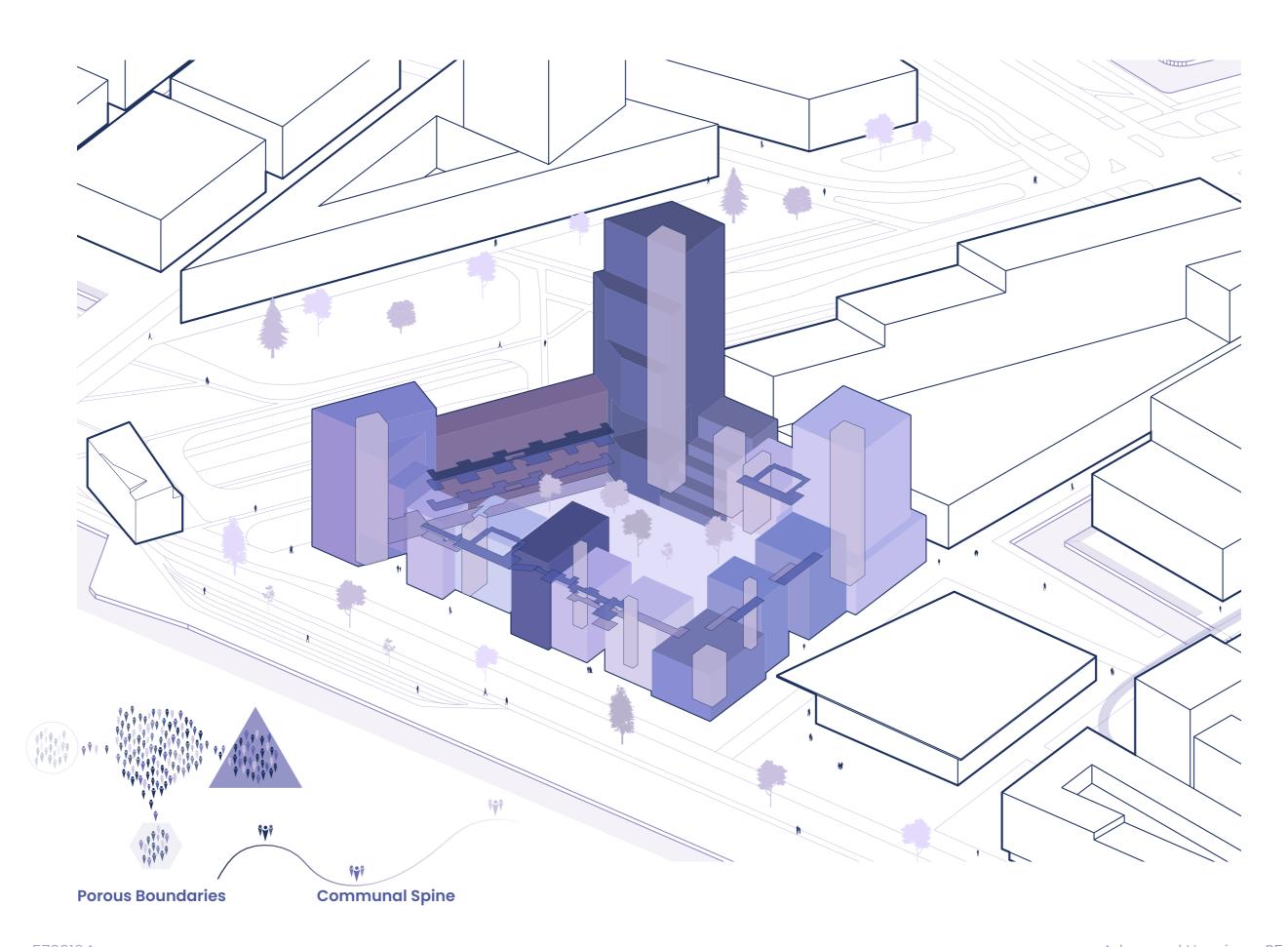


Daycare



Floor plan - 0





Impression





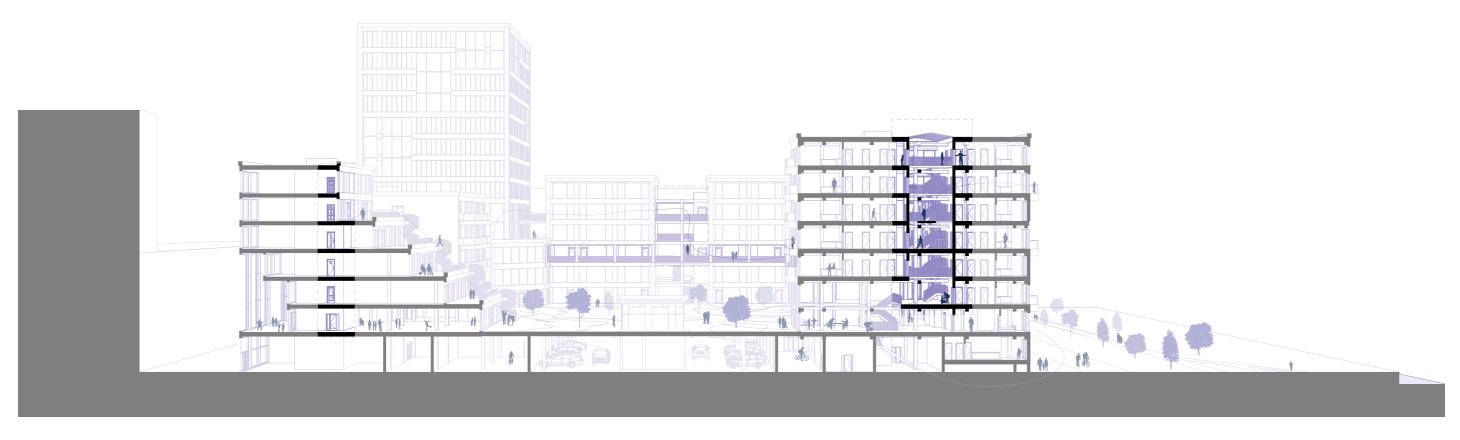


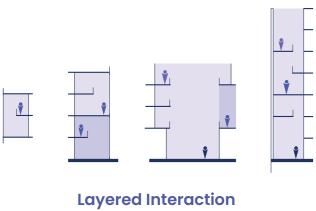


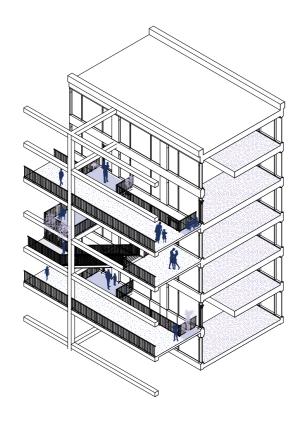
(Pinterest, 2025)



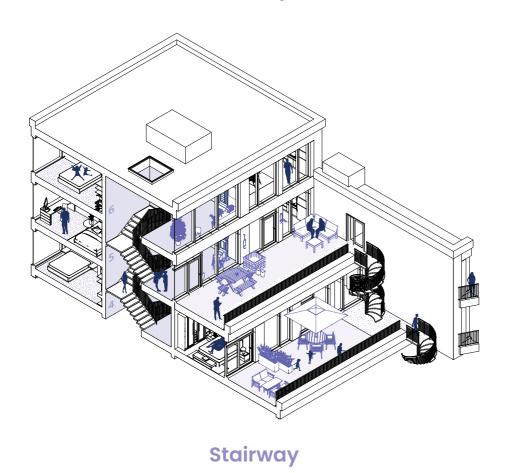
Section

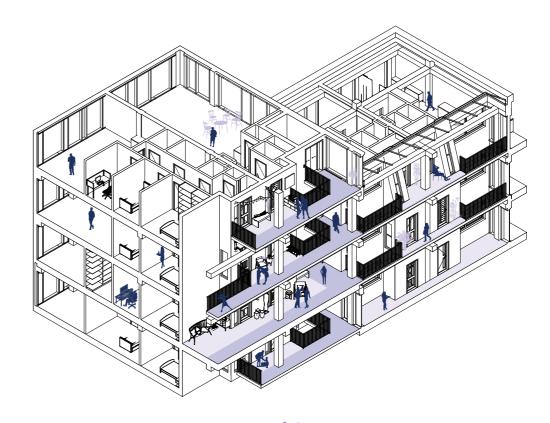




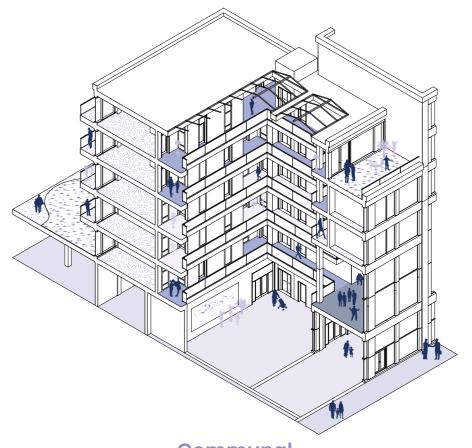


Gallery





Corridor



Communal

Floor plan - 1

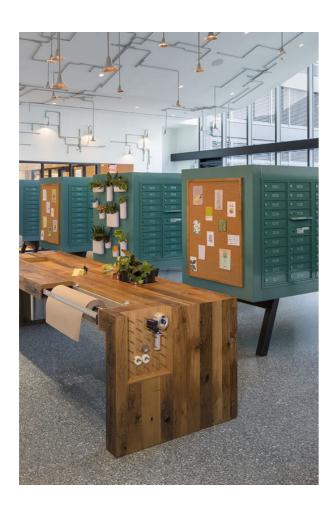




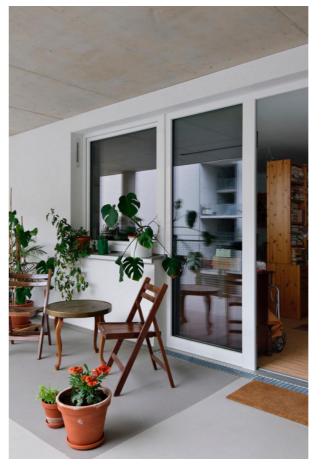
Floor plan - 5



Elements



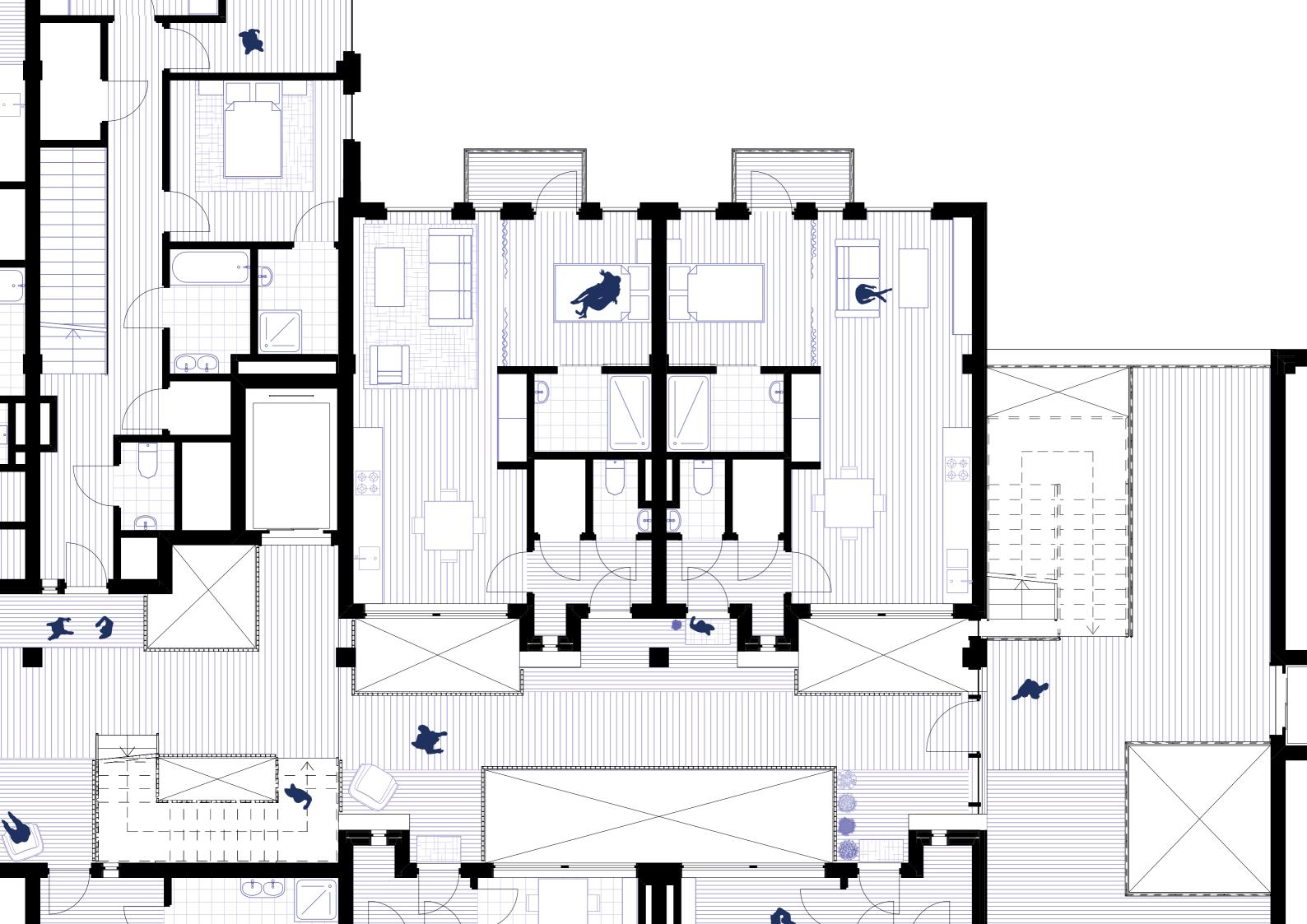


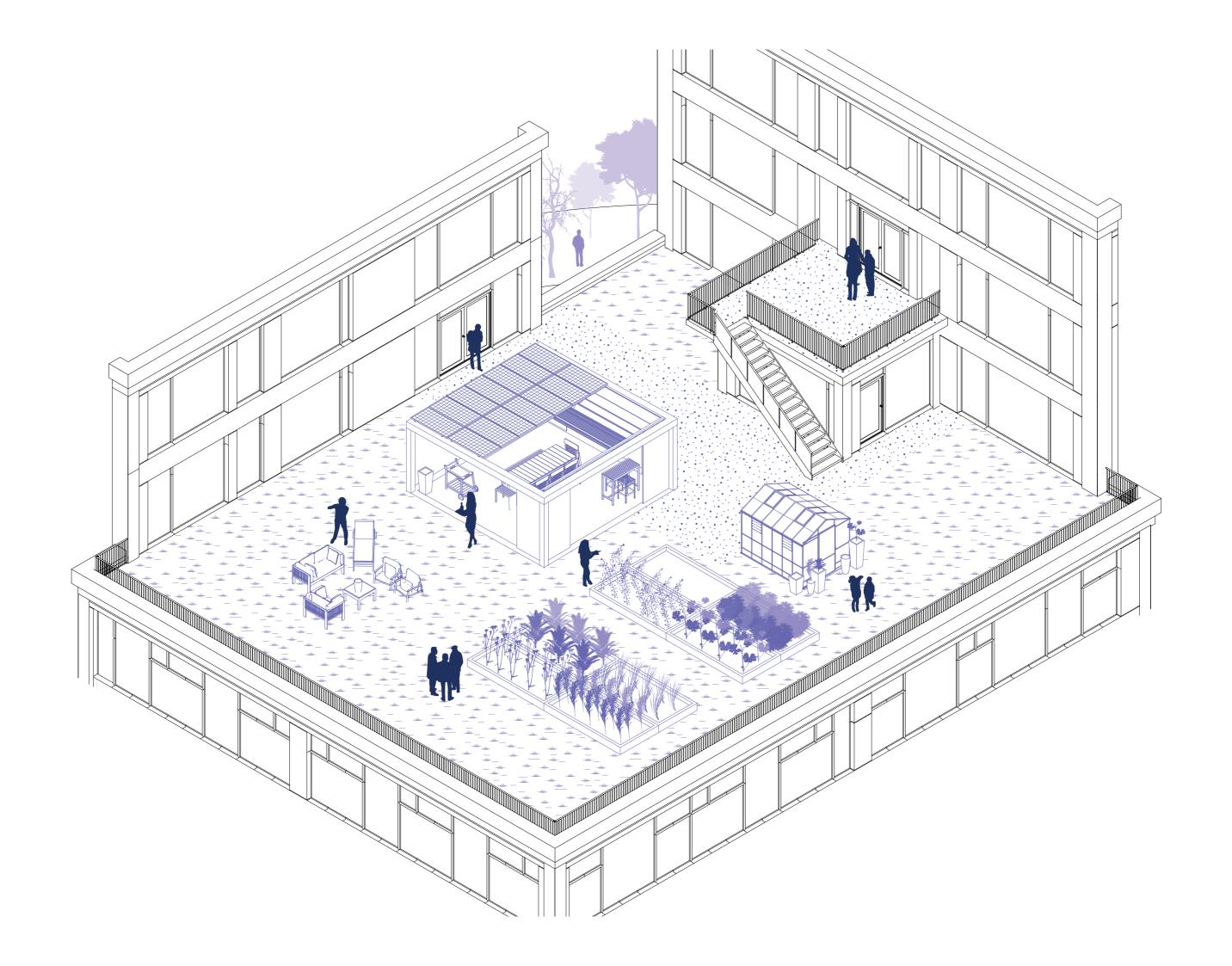


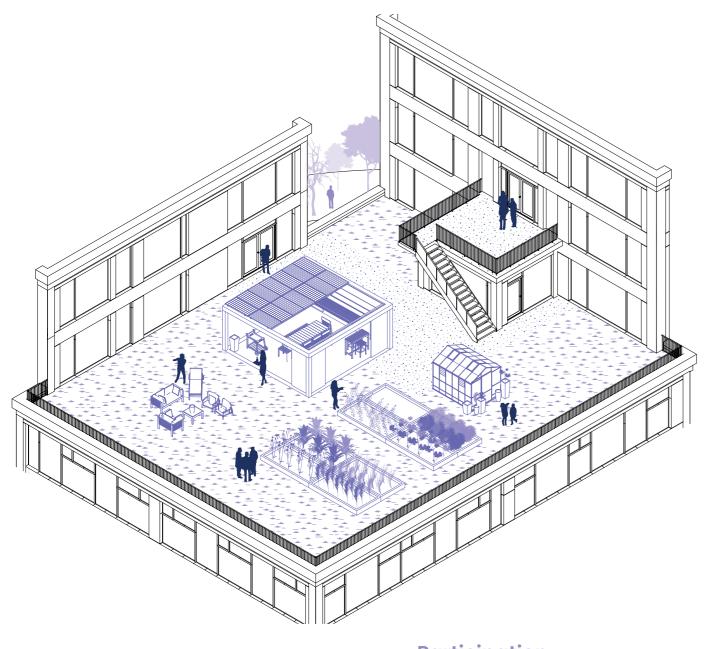


(Pinterest, 2025)





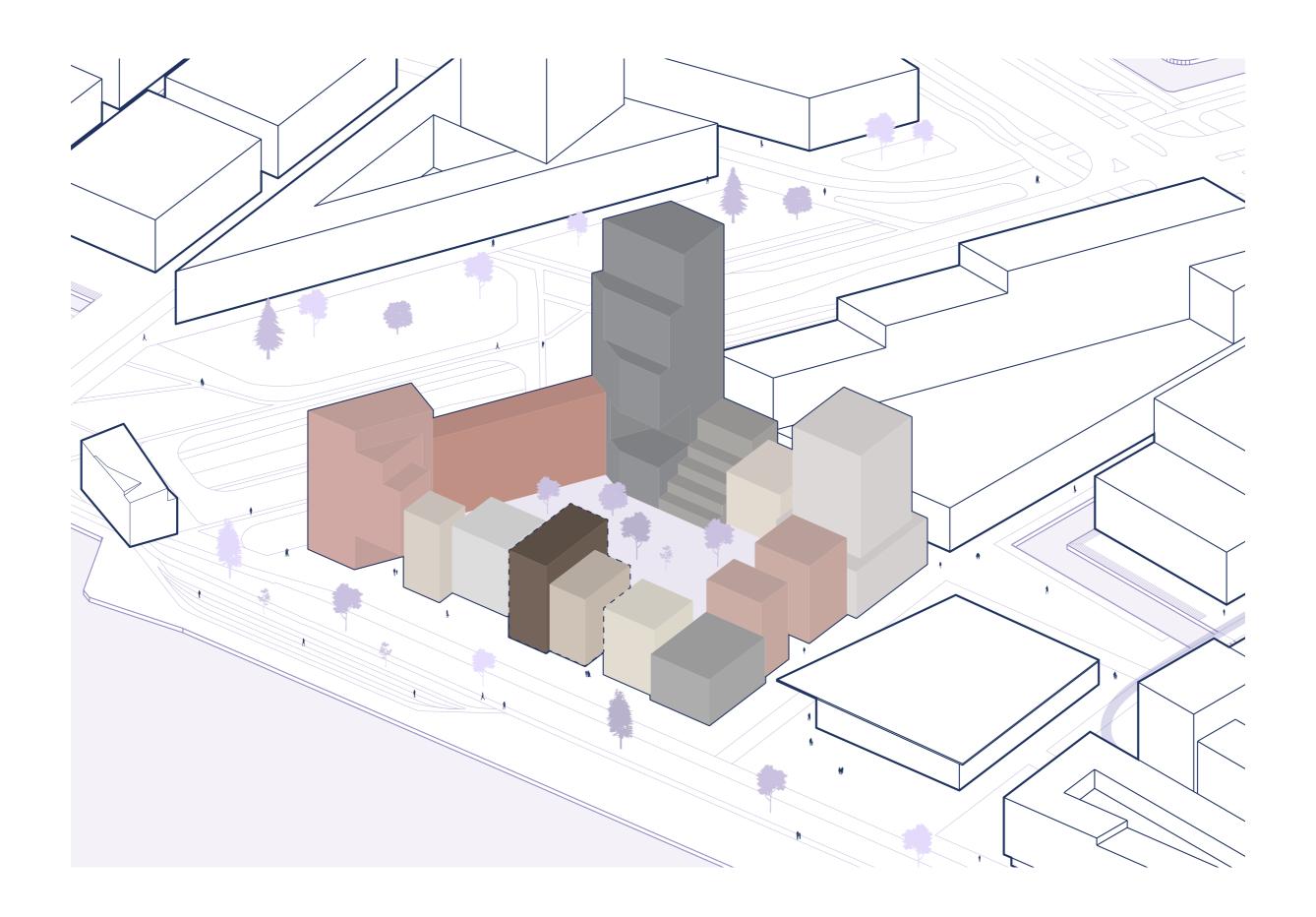




Participation



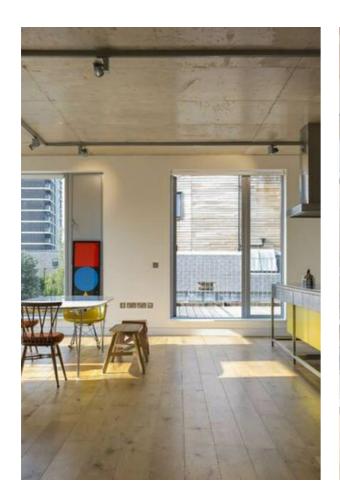
Ownership





Dwelling

Impression







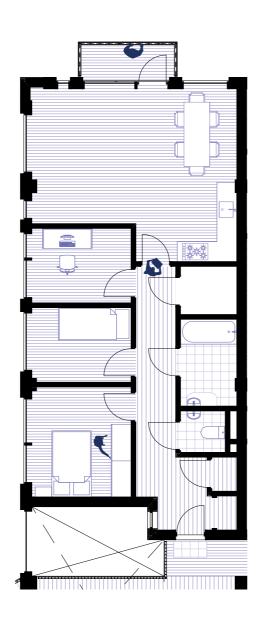


(Pinterest, 2025)

Floor plan

Dwellings







Studio

Area - 46 m² Target group - Students/starter

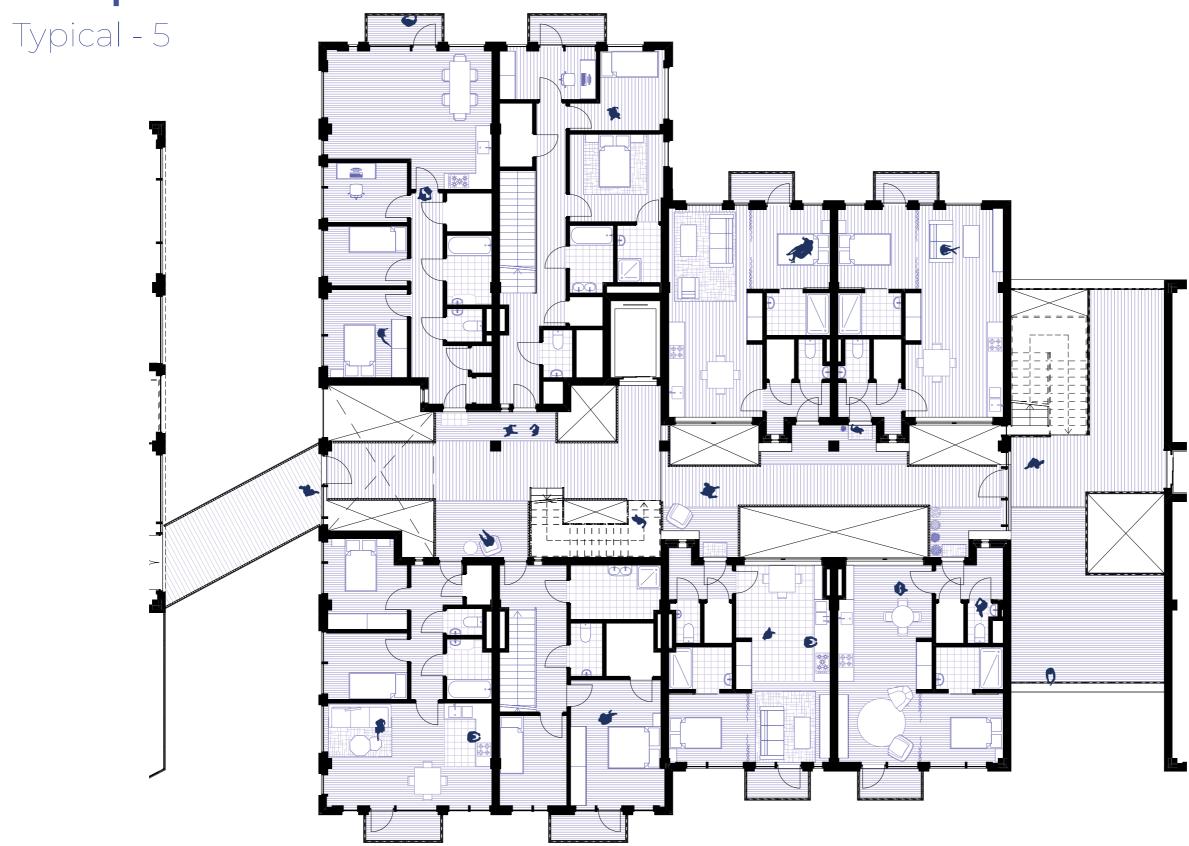
Apartment

Area - 73 m² Target group - Starter/family

Maisonette

Area - 115 m² Target group - Family

Floor plan





Material

Impression









(Pinterest, 2025)

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Detailing

Fragment



Facade



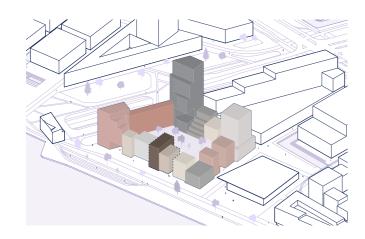
Balcony



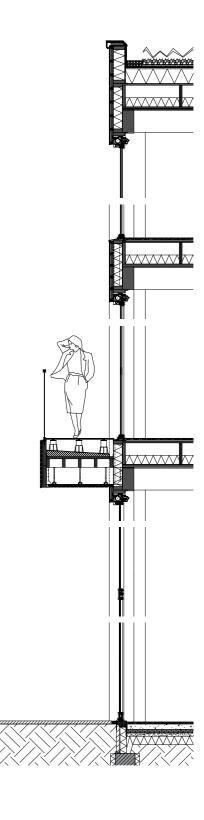
Finish

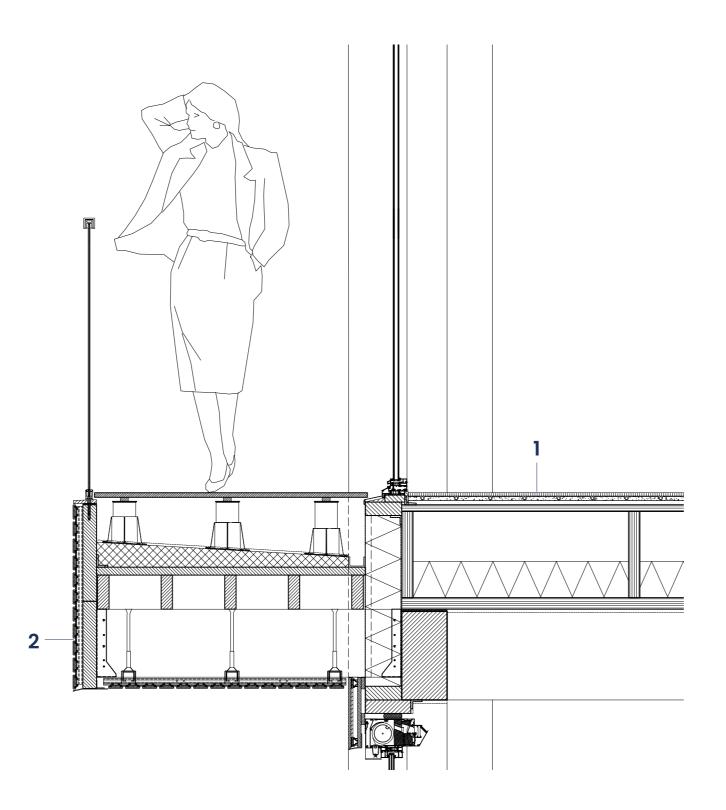


Elements



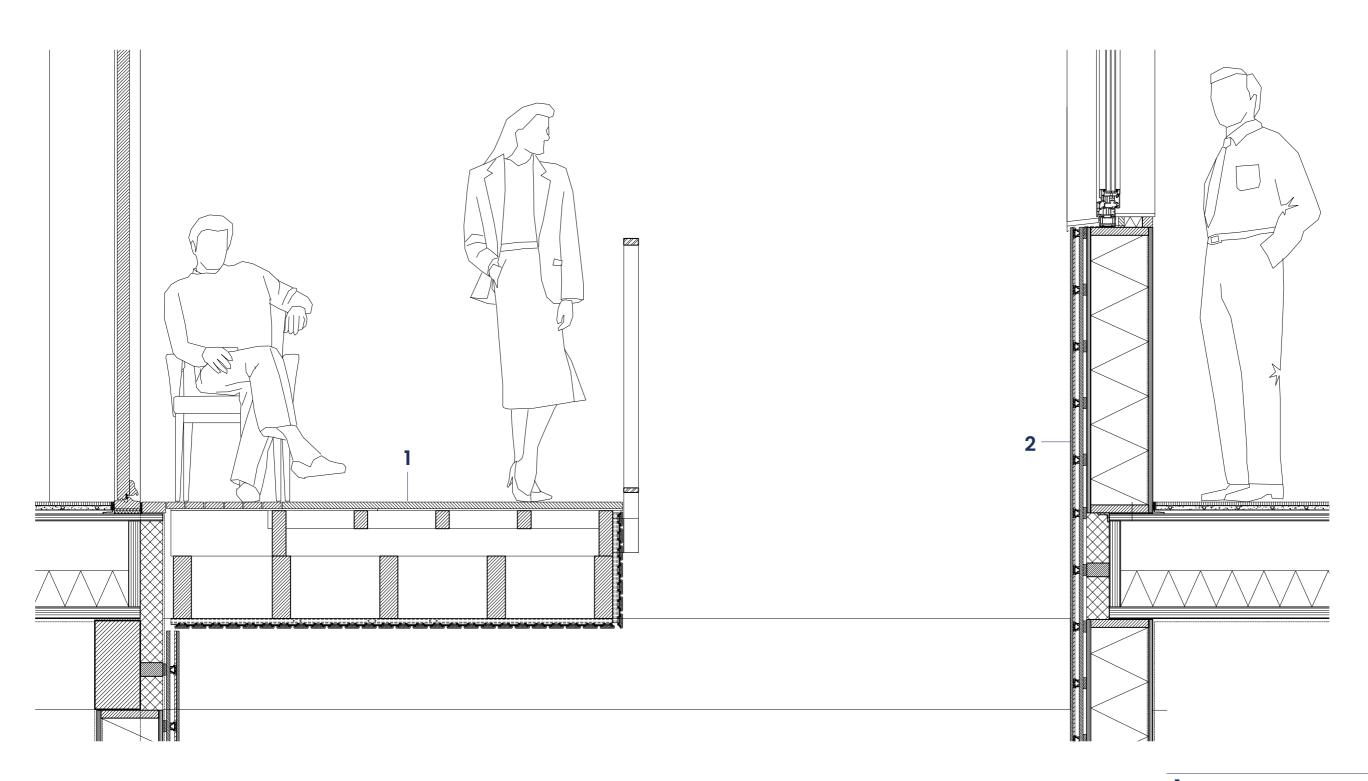






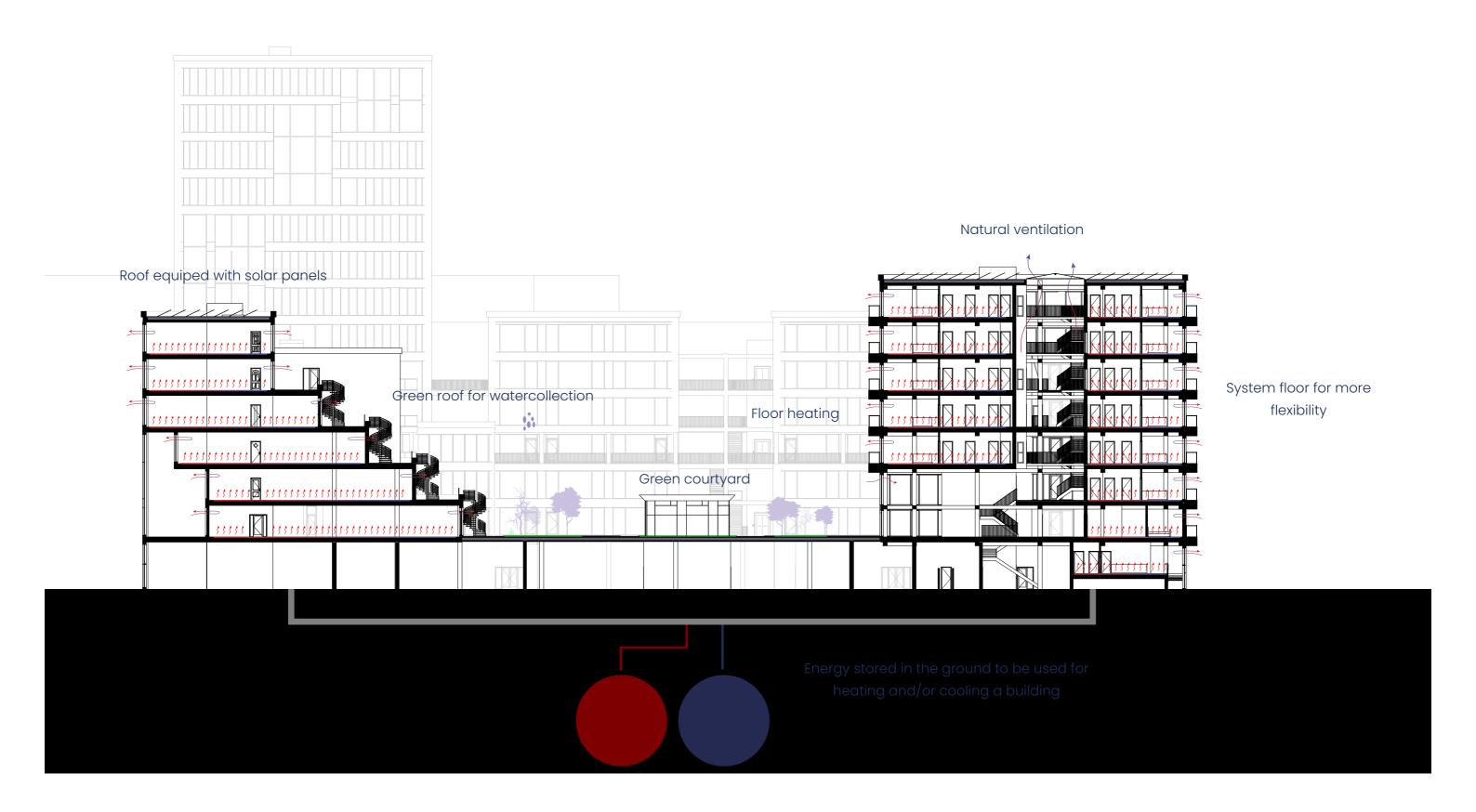
- 1 10mm linoleum, Compact filling mass, Varioprofile tube 11.6 x 1.5 laser, 18 mm gypsum fiberboard, Kerto-Ripa box element 460mm (with 160mm insulation), Ceiling finish
- 2 Accoya wood (Shou-sugi ban), Derarko facade system, wooden battens, Water-resistant foil, DucoTwin 120, Plaster finish Dentimex

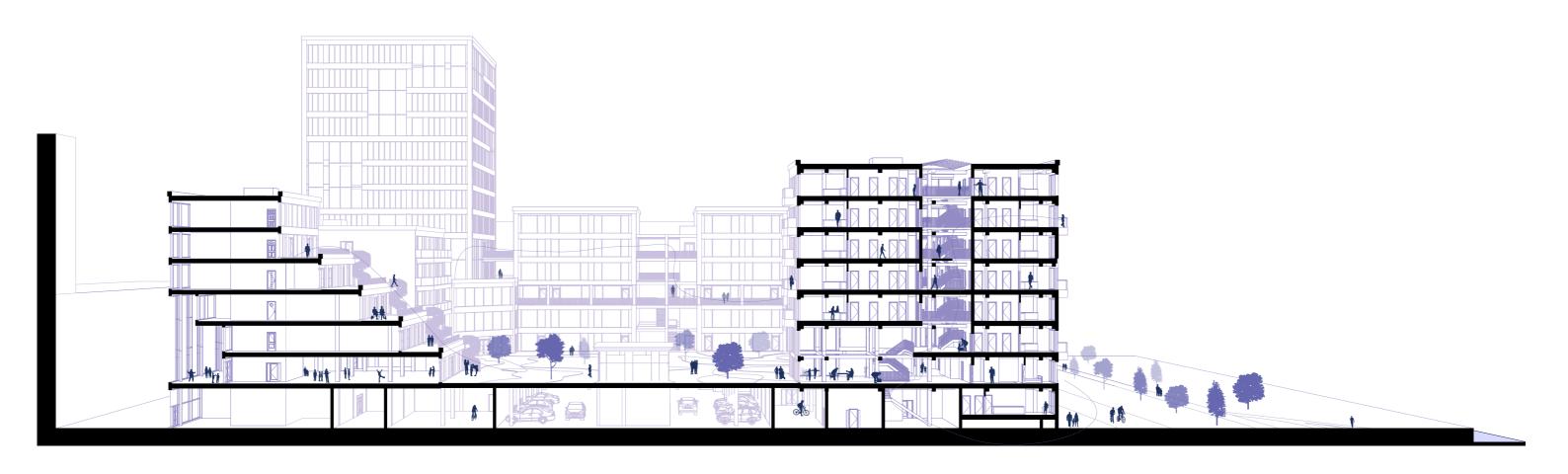
Advanced Housing - P5 presentation



- 1 Accoya wood, Wooden beam, Derarko facade system (ceiling), Accoya wood
- 2 Accoya wood, Derarko facade system, wooden battens, Water-resistant foil, 18mm plywood, Isovlas insulation 0.035 m2 K/W, Vapor barrier foil, 18mm plywood finish, Plaster finish Dentimex

Advanced Housing - P5 presentation

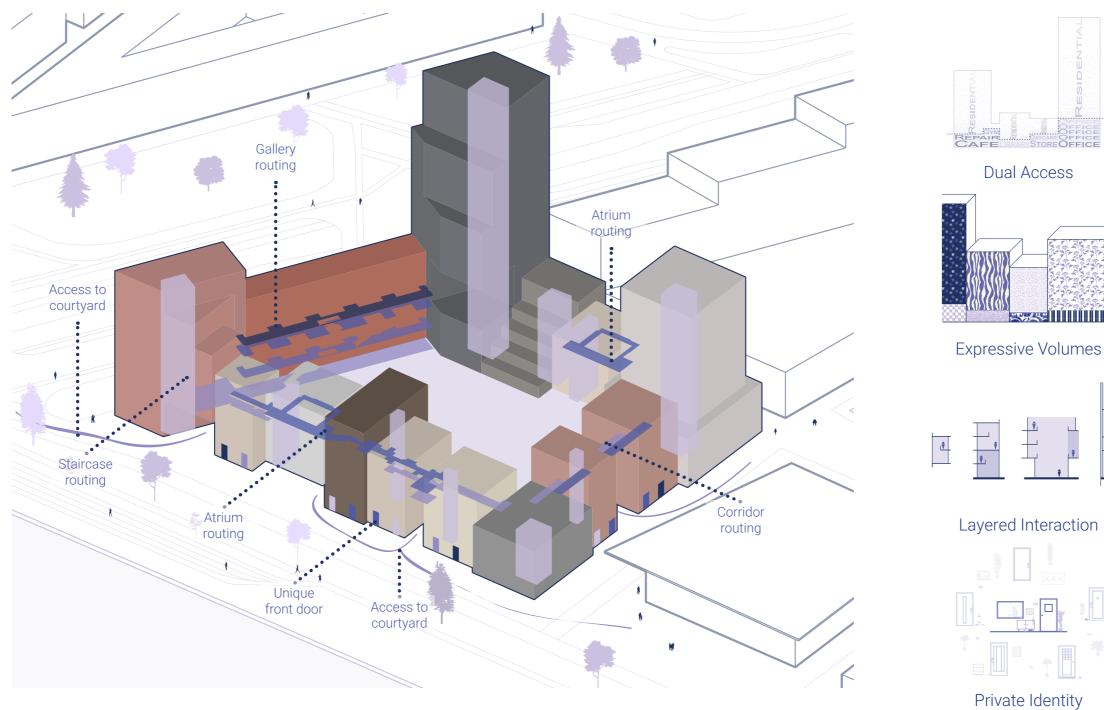




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Strategies DESIGN **Scales** Neighbourhood Individual City **Communal** Public Space **Expressive Volumes Dual Access** Layered Interaction Private Identity **Communal Space** Porous Boundaries **Nested Communities Engaged Routes Integrated Clusters Transitional Space** Communal Spine **Expressive Routes Dual Access Engaged Routes** Private Space 313131313131 Porous Boundaries **Nested Communities Integrated Clusters** Cozy Living

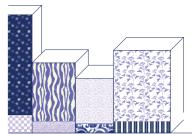
Public



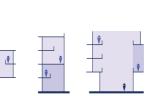
Public Space



City



Neighbourhood





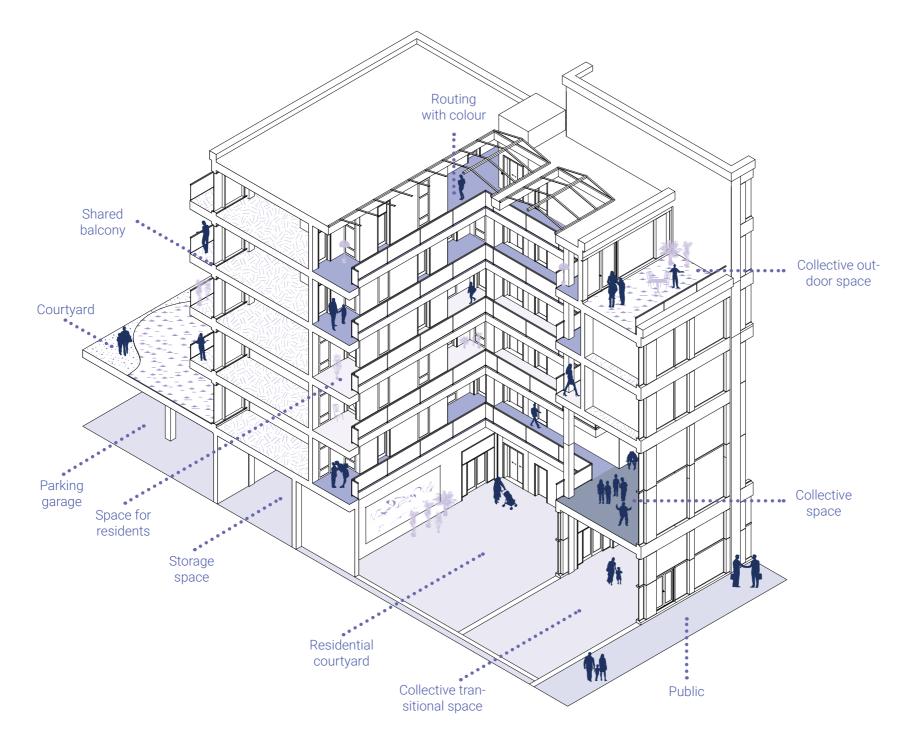
Communal

Layered Interaction

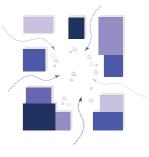




Communal

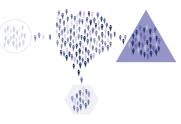


Communal Space



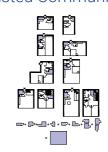
City

Porous Boundaries



Neighbourhood

Nested Communities



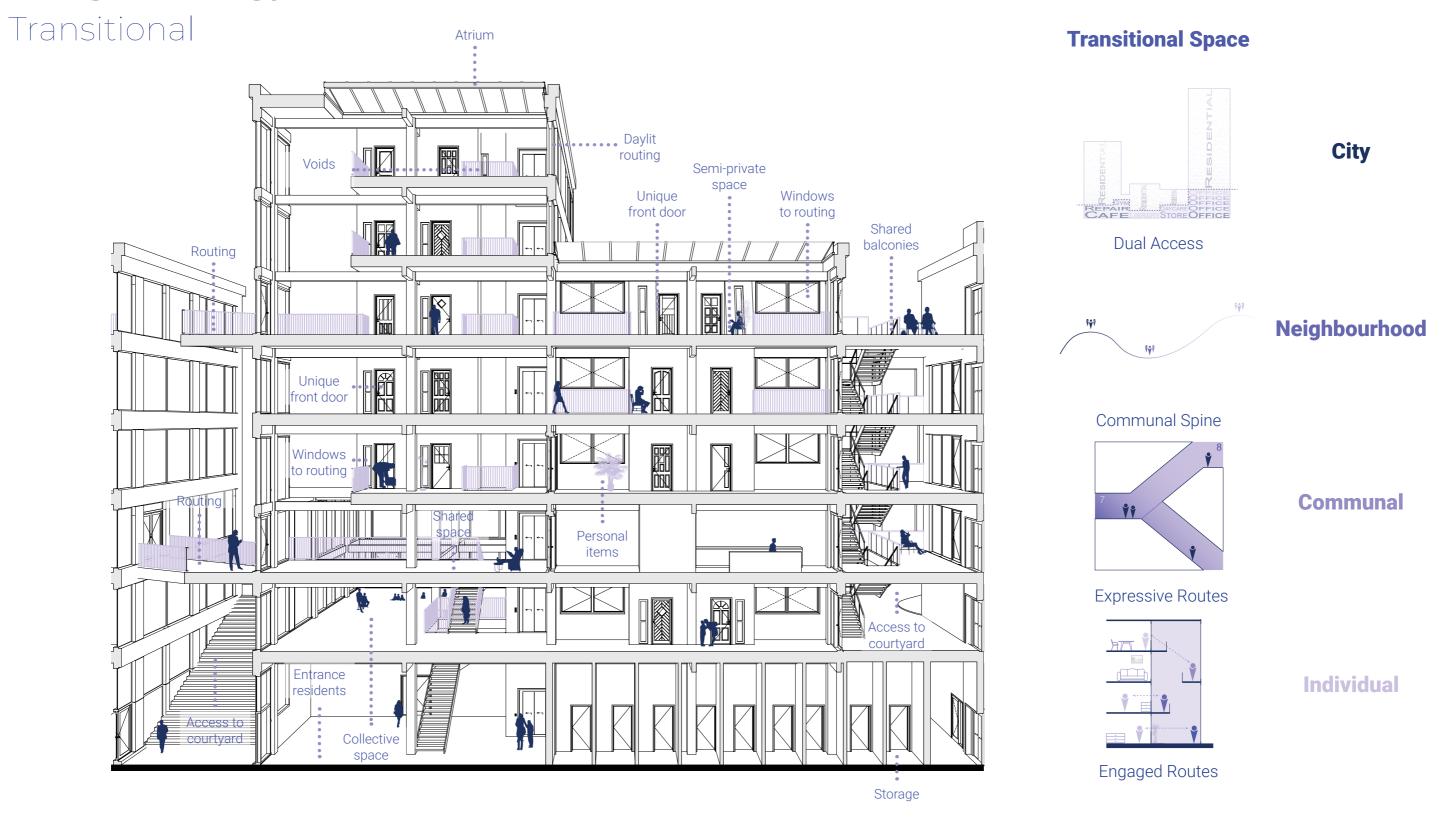
Communal

Integrated Clusters

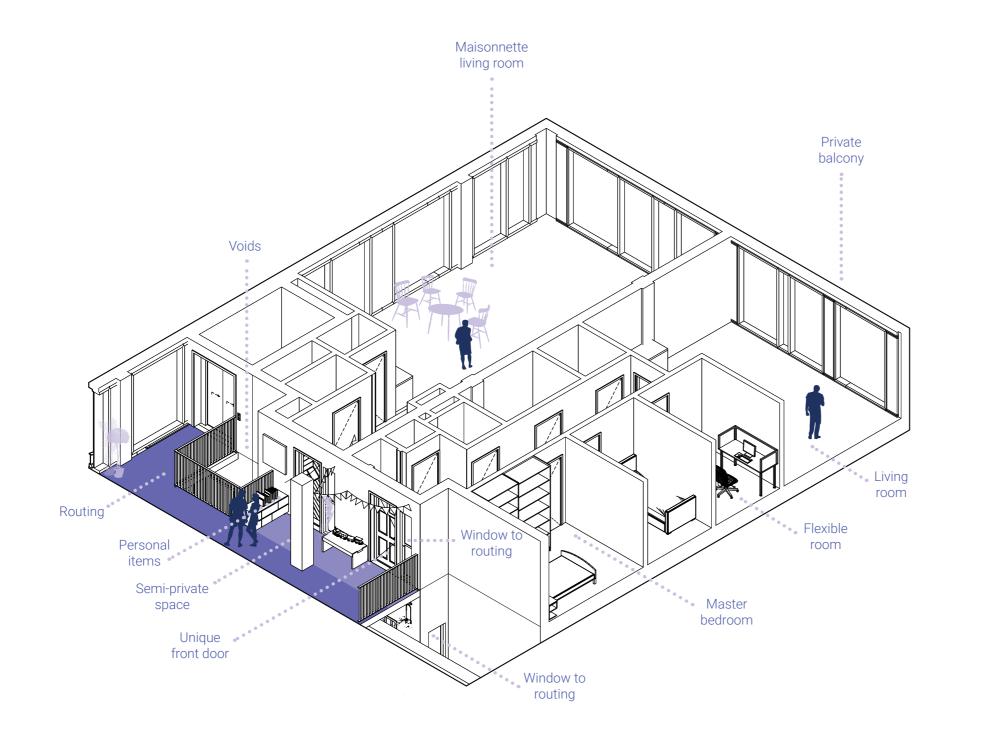


Individual

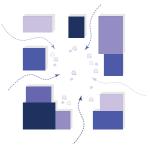
Engaged Routes



Private



Private Space



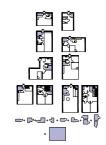
City

Porous Boundaries



Neighbourhood

Nested Communities

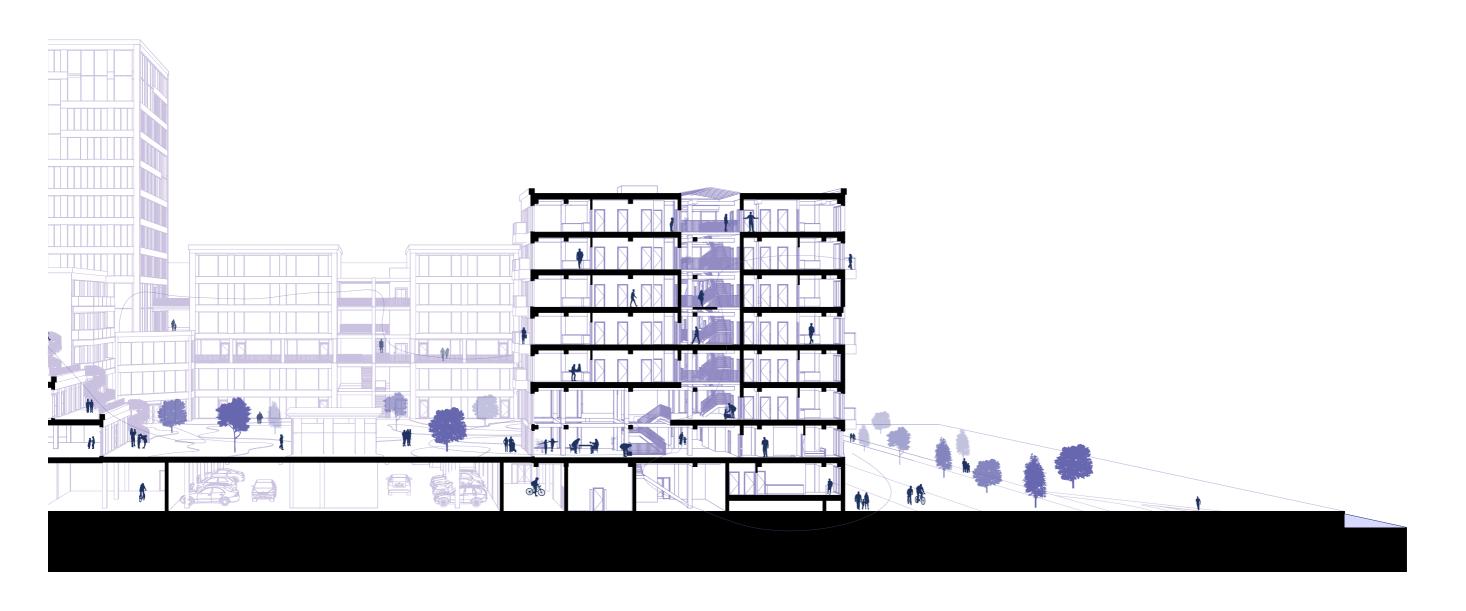


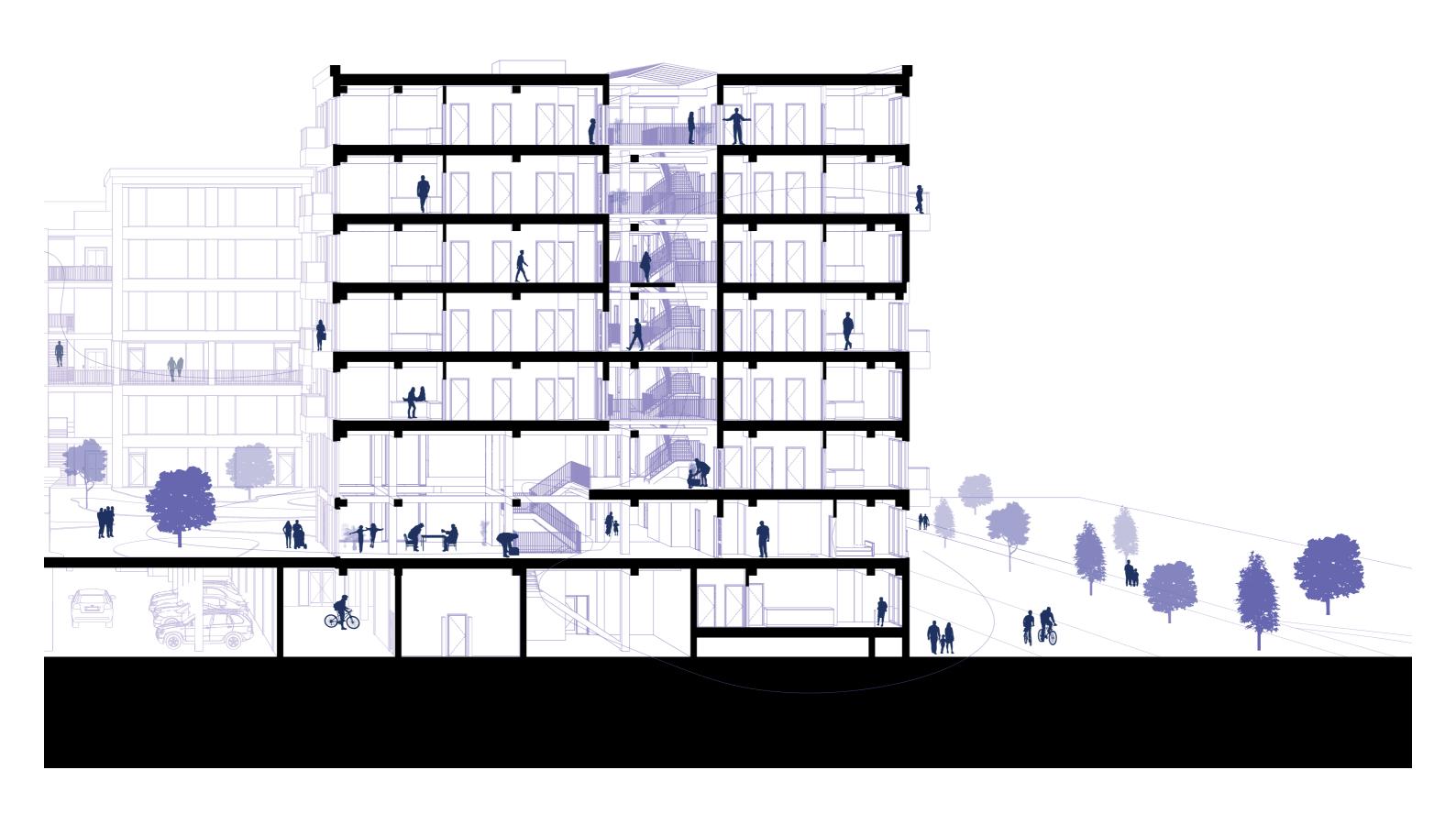
Communal

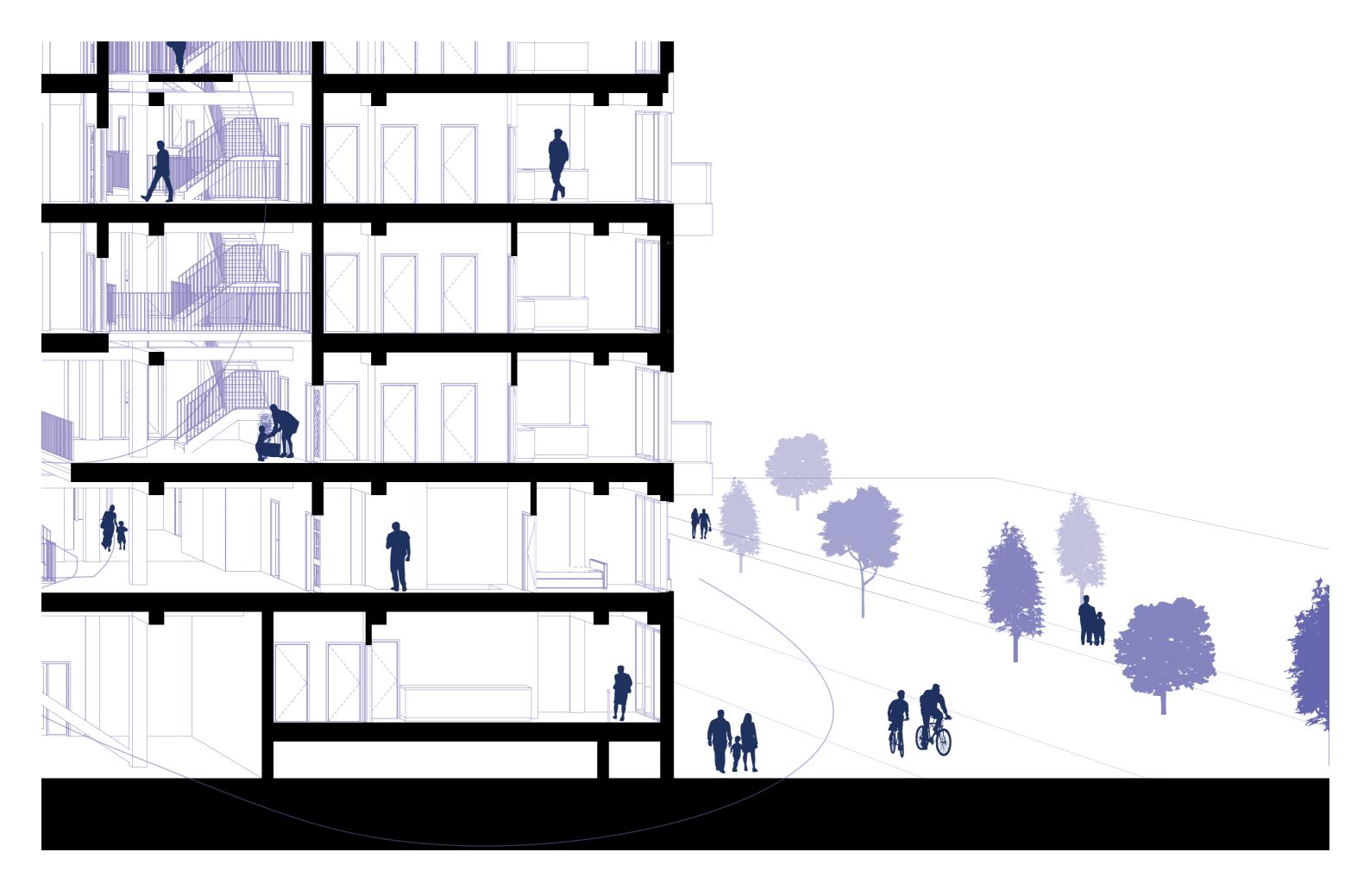
Integrated Clusters

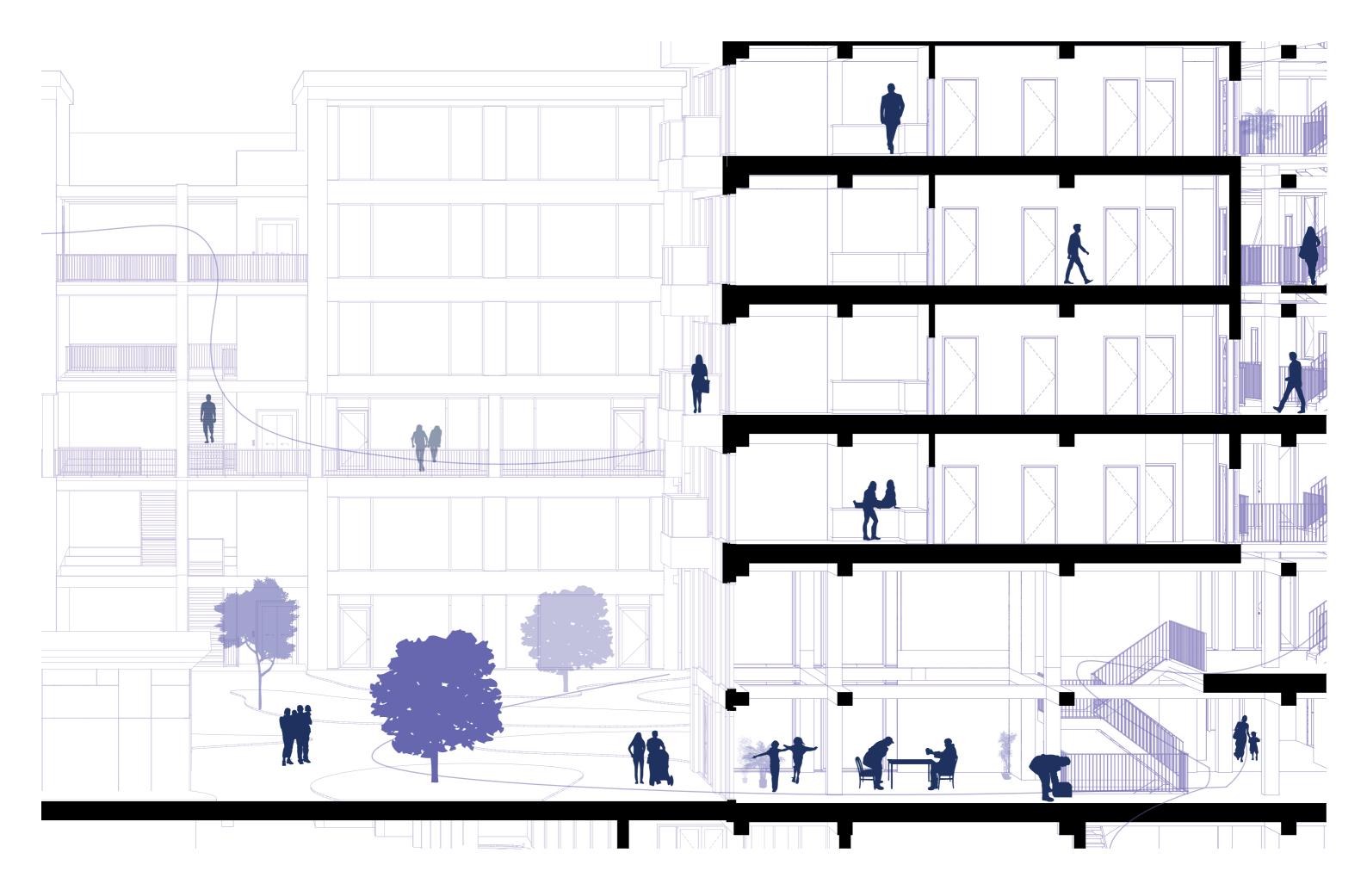


Individual







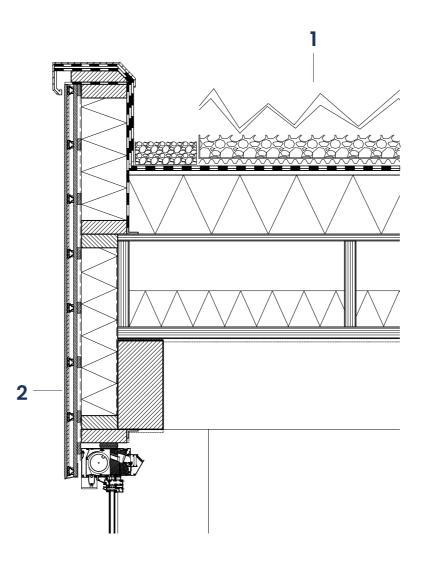




Thank you.

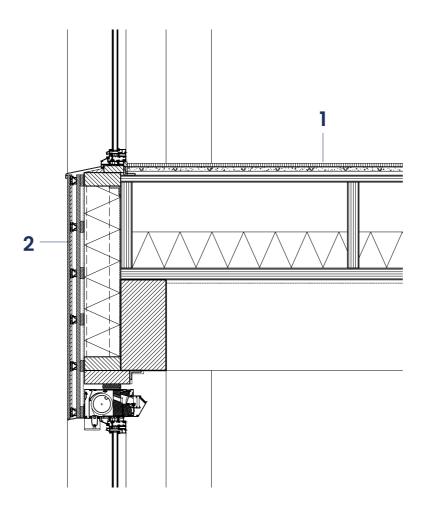
Questions?





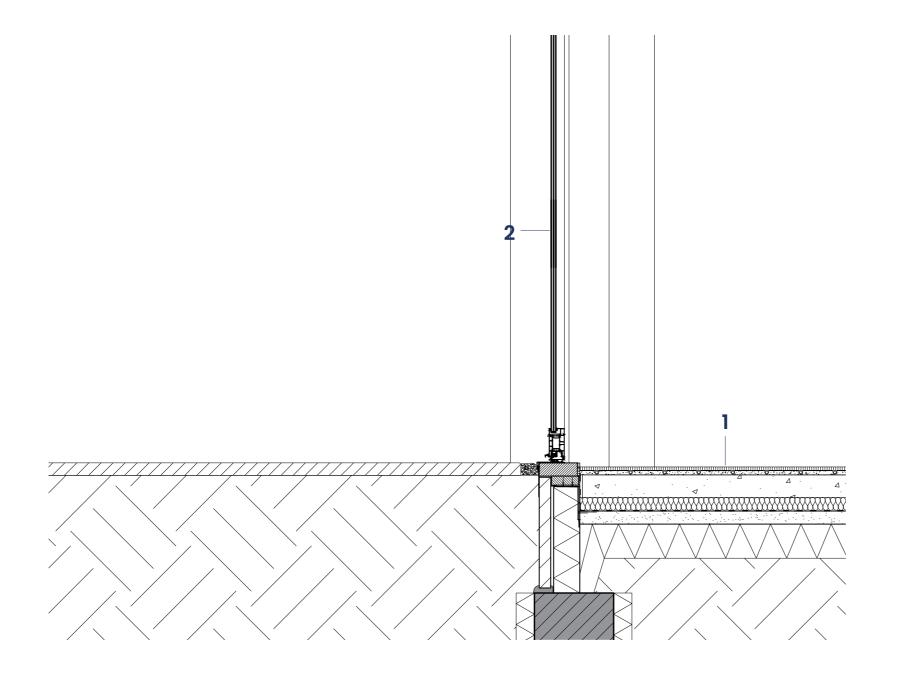
- 1 Green roof vegetation, Substrate, Drainage system, Water and root barrier, Isovlas insulation 0.035 m2 K/W, Kerto-Ripa box element 460mm, Ceiling finish finish
- 2 Accoya wood (Shou-sugi ban), Derarko facade system, wooden battens, Water-resistant foil, 18mm plywood, Isovlas insulation 0.035 m2 K/W, Vapor barrier foil, Wooden beam

Advanced Housing - P5 presentation



- 1 10mm linoleum flooring, Compact filling mass, Varioprofile tube 11.6 x 1.5 laser, 18 mm gypsum fiberboard, Kerto-Ripa box element 460mm (with 160mm insulation), Ceiling finish
- 2 Accoya wood (Shou-sugi ban), Derarko facade system, wooden battens, Water-resistant foil, 18mm plywood, Isovlas insulation 0.035 m2 K/W, Vapor barrier foil, Wooden beam

Advanced Housing - P5 presentation



^{1 10}mm linoleum, Compact filling mass, Varioprofile tube 11.6 x 1.5 laser, 18 mm gypsum fiberboard, PE construction foil, Concrete floor slab, Rockwool Rockfloor 60mm, DPM, Sand bedding, Hardcore

² Reynaers CS77 window frame

Structure



Main research question:

"Which design strategies impact the 'social' quality of life for different target groups within a high density context?"

Sub questions:

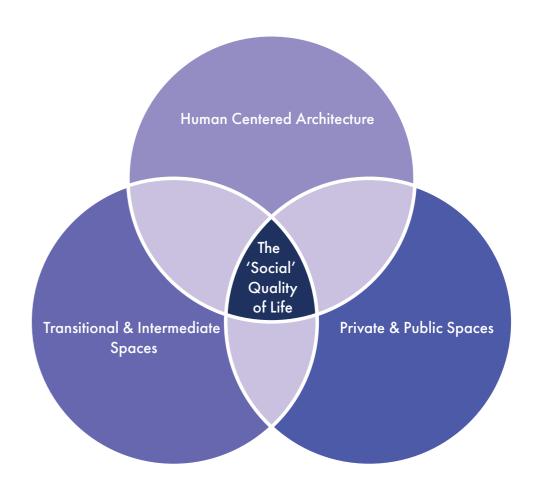
"How can 'social' quality of life be measured within an architectural context & what are the primary factors that affect residents in high-density urban environments?"

"How do different target groups consider these elements within their residential housing?"

"Which design strategies are used in the selected case studies to improve the 'social' quality of life of residents?"

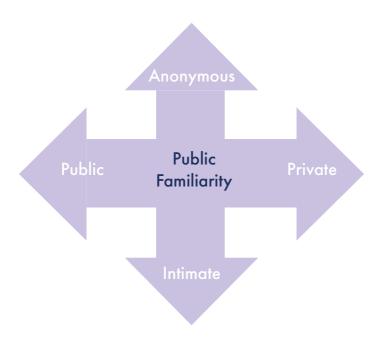
Theoretical Framework

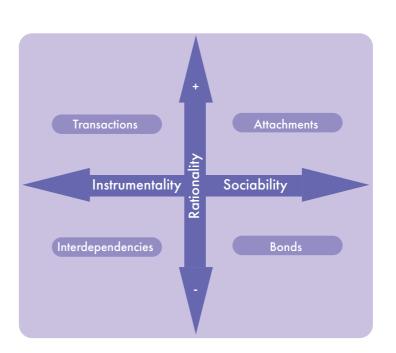




Private & public spaces

Blokland

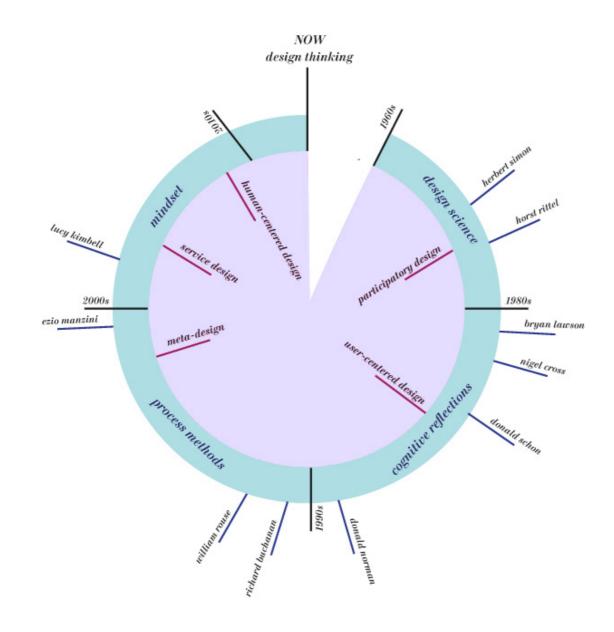


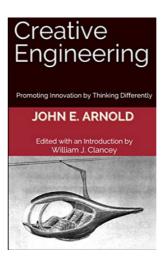


The continuum of privacy and the continuum of access & A typology of social ties - (Blokland, 2017)

Human-centred design

Evolution

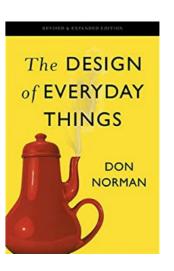








Participartory design



User-centred design

Evolution of design thinking
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