

The transience of society:

Through the lens of a post-war neighbourhood in The Netherlands



Re-Densification of *Westwijk*

STUDIO BRIEF

SITE INTRODUCTION

RESEARCH FINDINGS

DESIGN DEVELOPMENT

DESIGN DETAILING

"1 million homes by 2030!"

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In 2023 there will be 8.270 million households and 7.712 million homes in the Netherlands. -Ministry of the Interior and Kingdom Relations. Ignat aut alis

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SPLIT

TRANSFORM

NEW BUILD

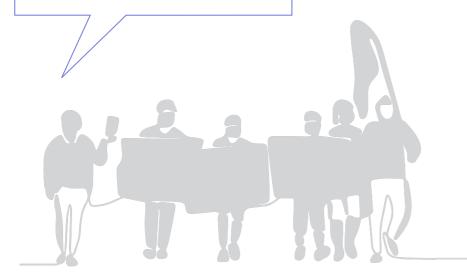






"The housing crisis is much more than a shortage of affordable housing."

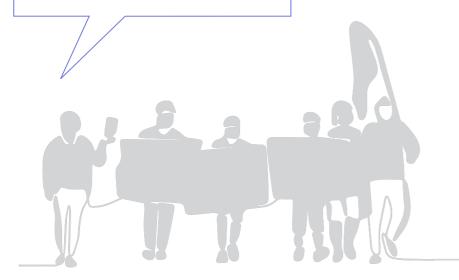
"The housing shortage is also the lack of a suitable home. If homes are not suitable, they will ultimately remain empty."



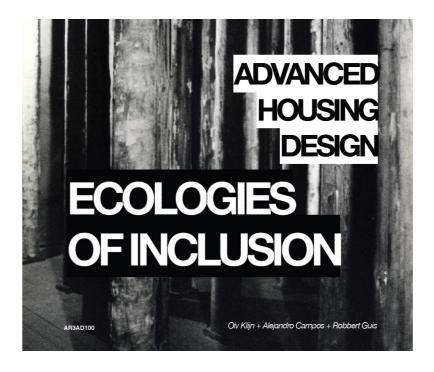
A suitable home?

"The housing crisis is much more than a shortage of affordable housing."

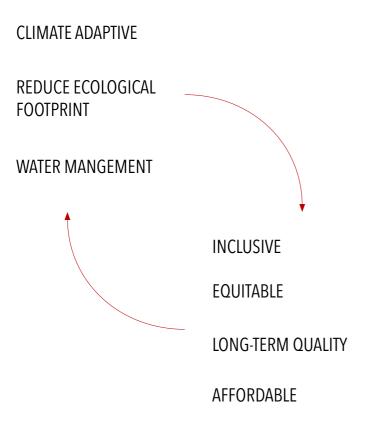
"The housing shortage is also the lack of a suitable home. If homes are not suitable, they will ultimately remain empty."



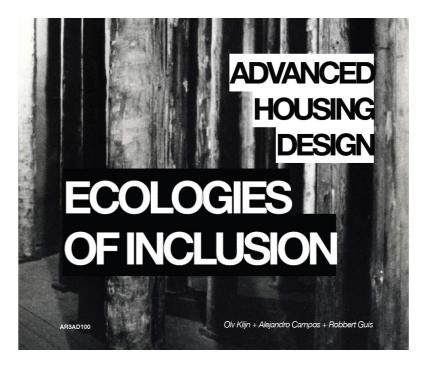
Studio Aims



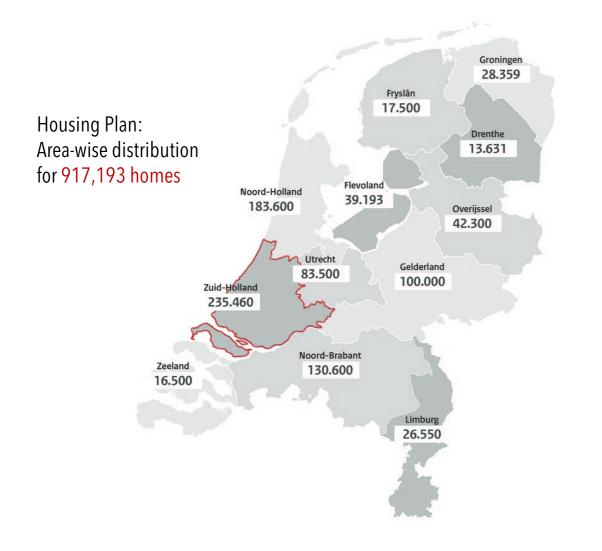
"Designers can no longer look at the city as a physically built environment, but have to understand it as a performing ecology of material flows and diverging habitats."



Studio Aims



"Designers can no longer look at the city as a physically built environment, but have to understand it as a performing ecology of material flows and diverging habitats."



How? Where?

OPEN LAND

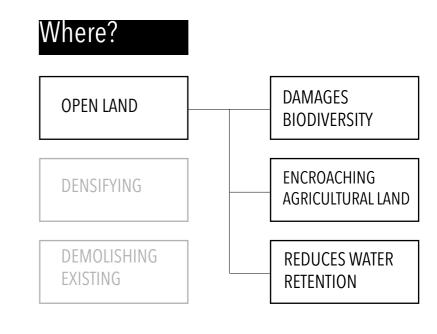
TRANSFORM DENSIFYING

NEW BUILD

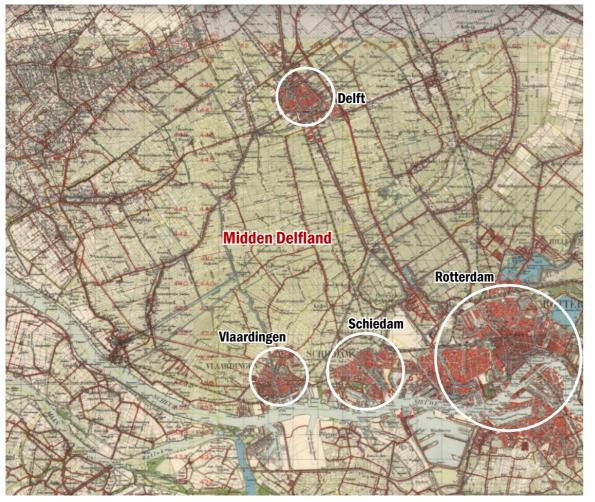
SPLIT

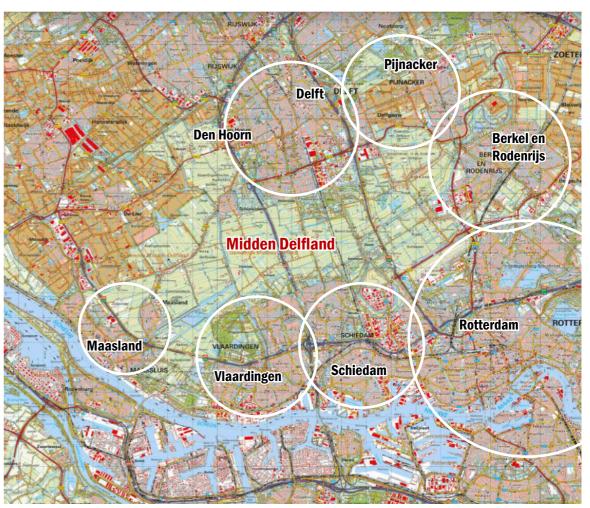
DEMOLISHING EXISTING





The growth and spread of city centres





1950 2023

National Productive Park Delfland

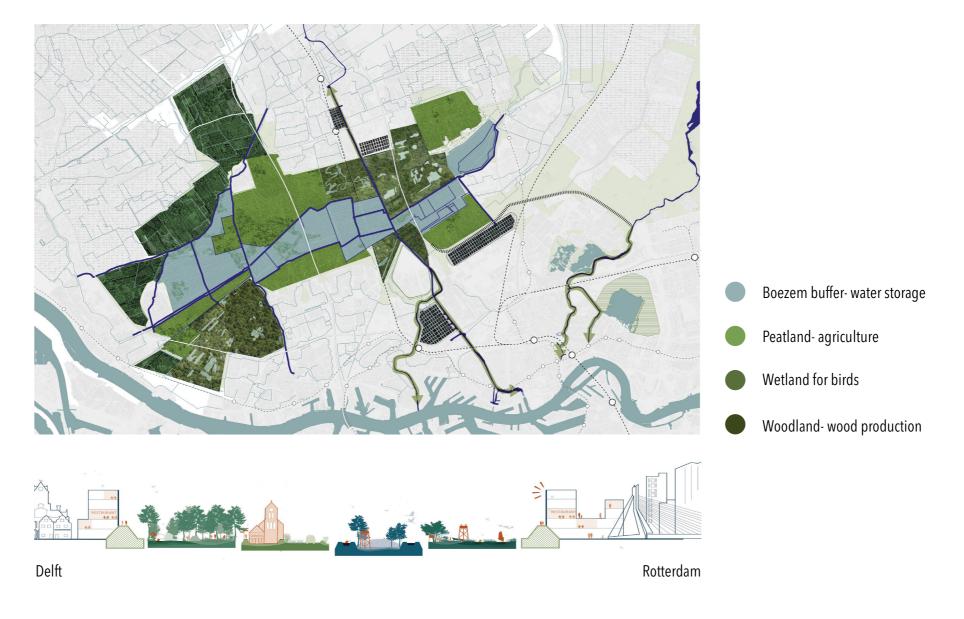


"Due to large paved surfaces in surrounding cities, there is a pressure on the water drainage system of Midden Delfland, the boezem system has reached maximum capacity."



ZUS | FLUX | SWECO





"Midden-Delfland, a green lung and sponge for cities"

Dichotomy of space





Dichotomy of space

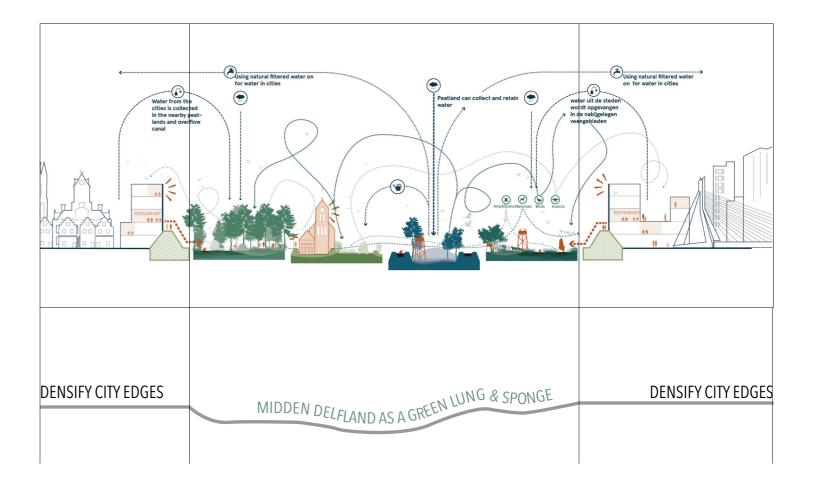


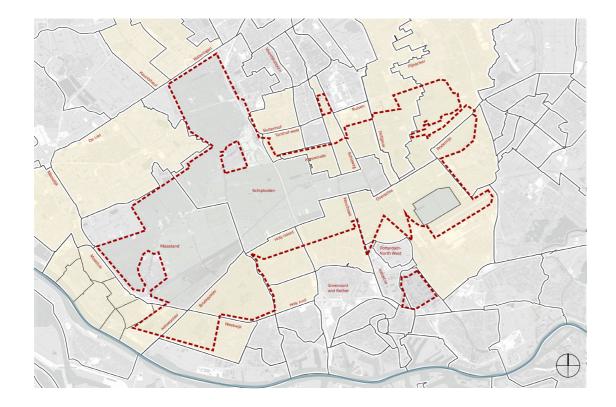
Where?

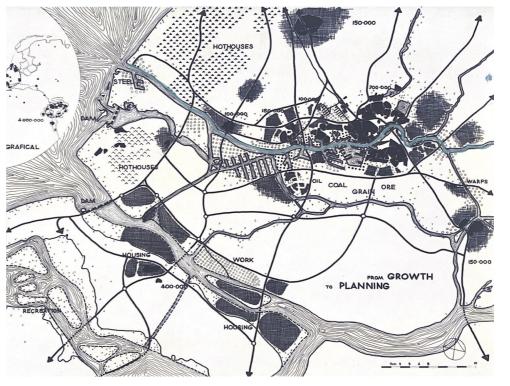
OPEN LAND

DENSIFYING

DEMOLISHING EXISTING







CIAM HOLLAND- GROUP 'OPBOUW'

3.5 million homes out of a total of 5 million were constructed after 1945, mostly designed as typical post-war neighbourhoods. (Prak & Priemus, 1985)

Where?

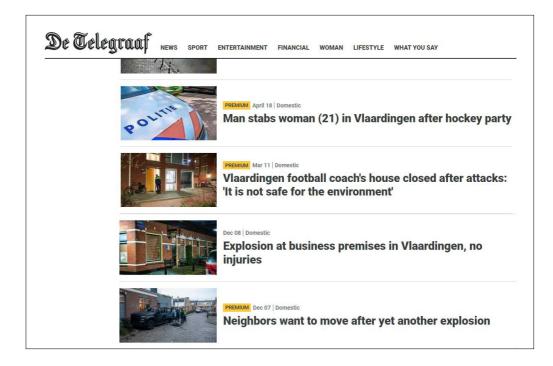
OPEN LAND

DENSIFYING

DEMOLISHING EXISTING

upto 5% homes remain unoccupied (~ 400,000 of 8.1 million)

-Ministry of the Interior and Kingdom Relations



Unfavourable living conditions

Decay

Spatial Decay

NO VARIATION IN HOUSING TYPOLOGIES

ABSOLUTE DIVIDE IN INTERIOR & EXTERIOR

LACK OF COMMUNAL SPACES

STERILE CORRIDORS

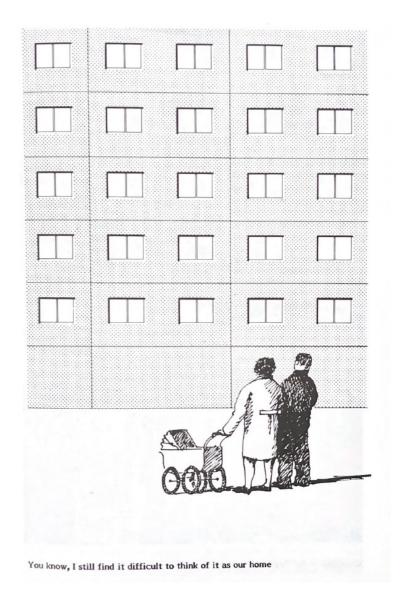
HIGH VACANCY RATES

UNSAFE NEIGHBOURHOOD

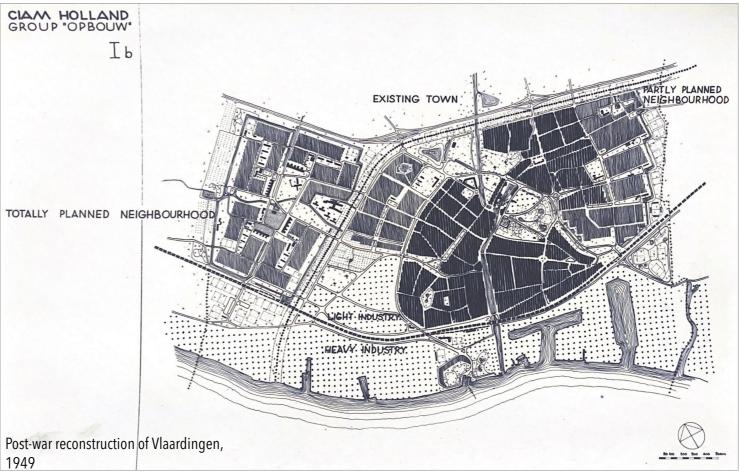
ANONYMITY

LACK OF OWNERSHIP

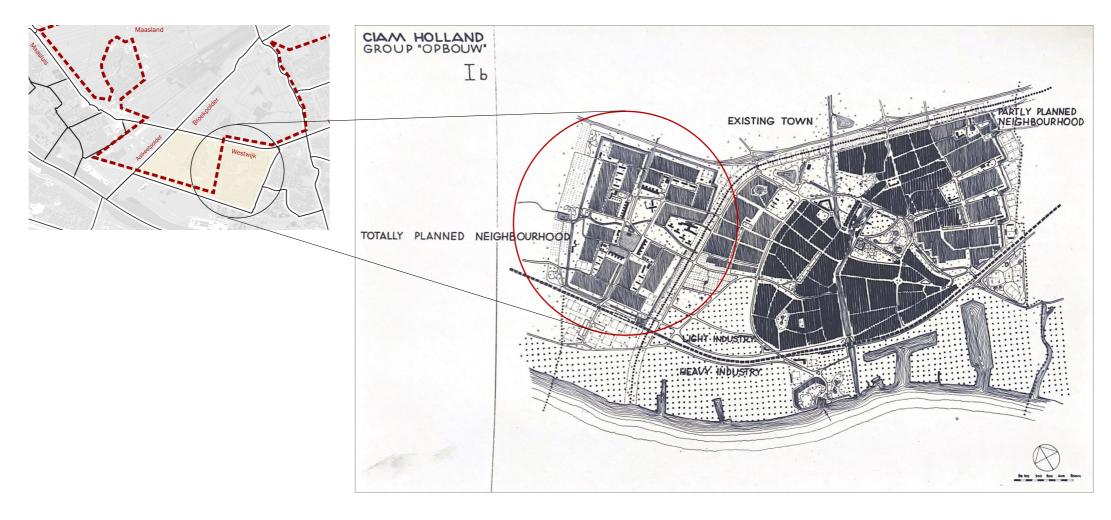
Social Decay



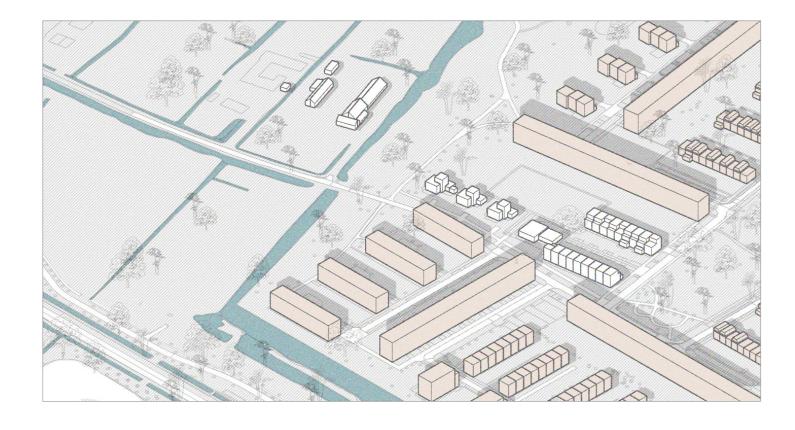




Densification of Vlaardingen



Formation of WESTWIJK

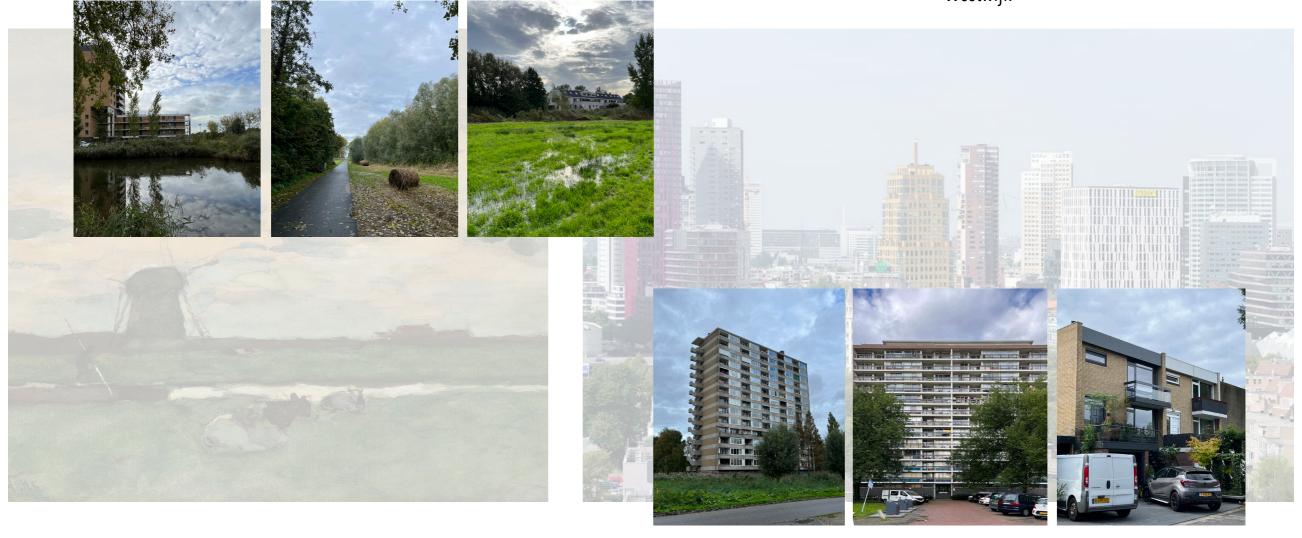


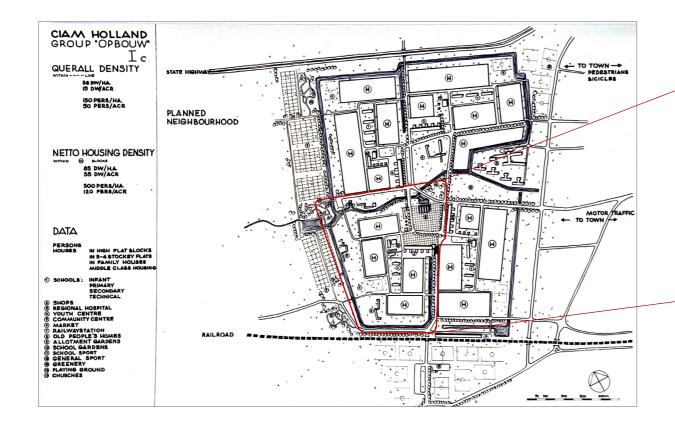


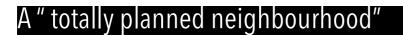


Dichotomy of space

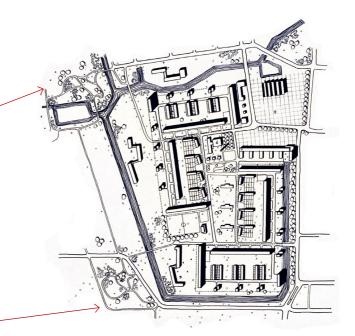
Westwijk

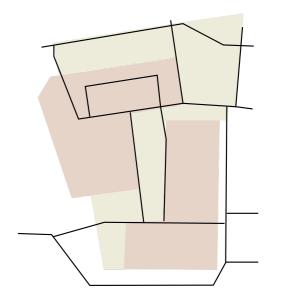






LIVIING | WORKING | RECREATION | CIRCULATION

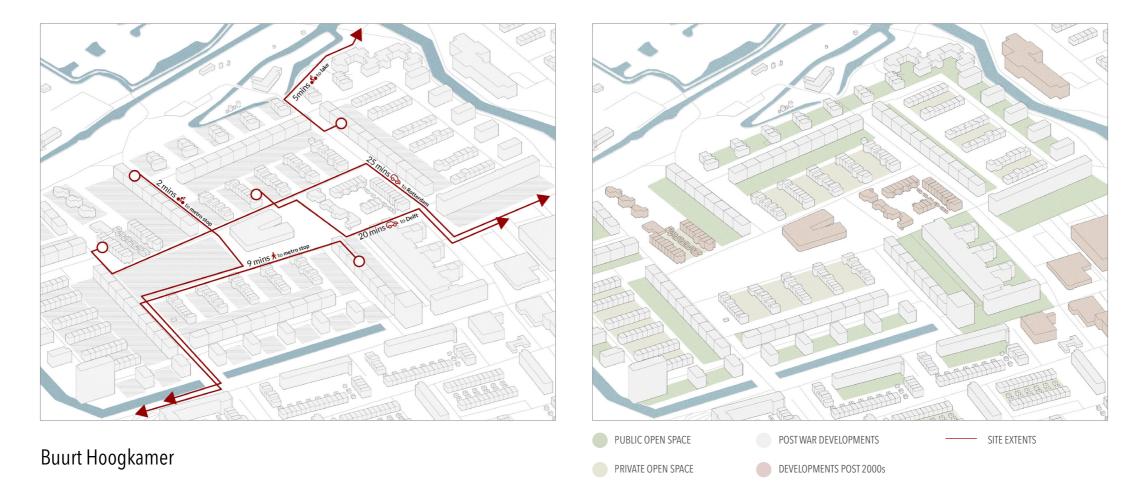






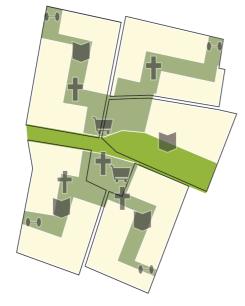
The zonal planning granted good connectivity.....

at the cost of spatial disconnect at the neighbourhood scale

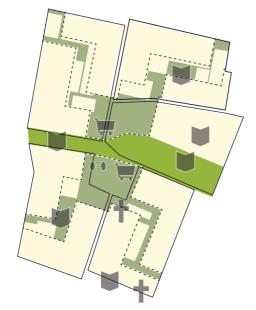




24



Original structure of planning

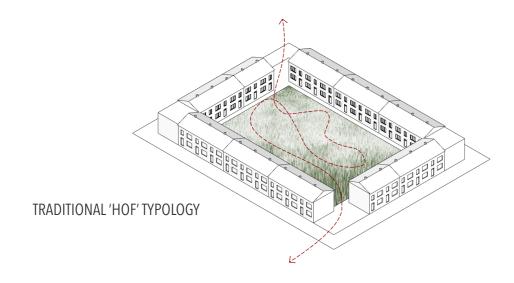


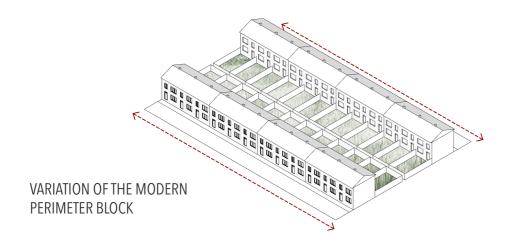
Present day obstruced structure



POST WAR DEVELOPMENT 1963

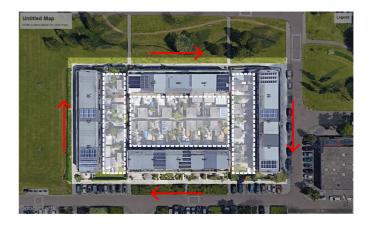
NEW DEVELOPMENT 2015

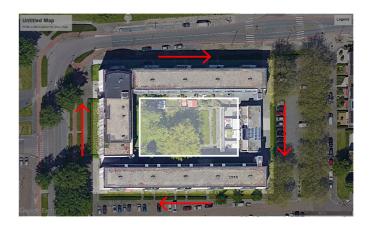




Transience of space

From public to private life



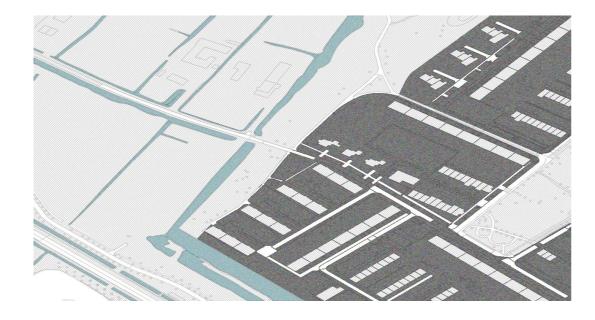




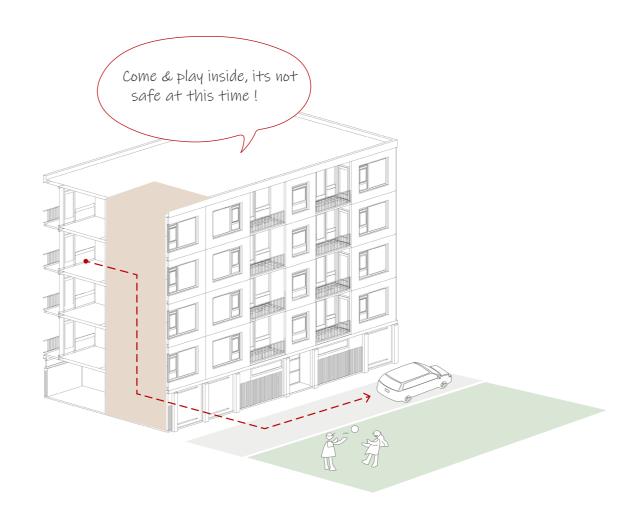
Familistère de Guise, 1859

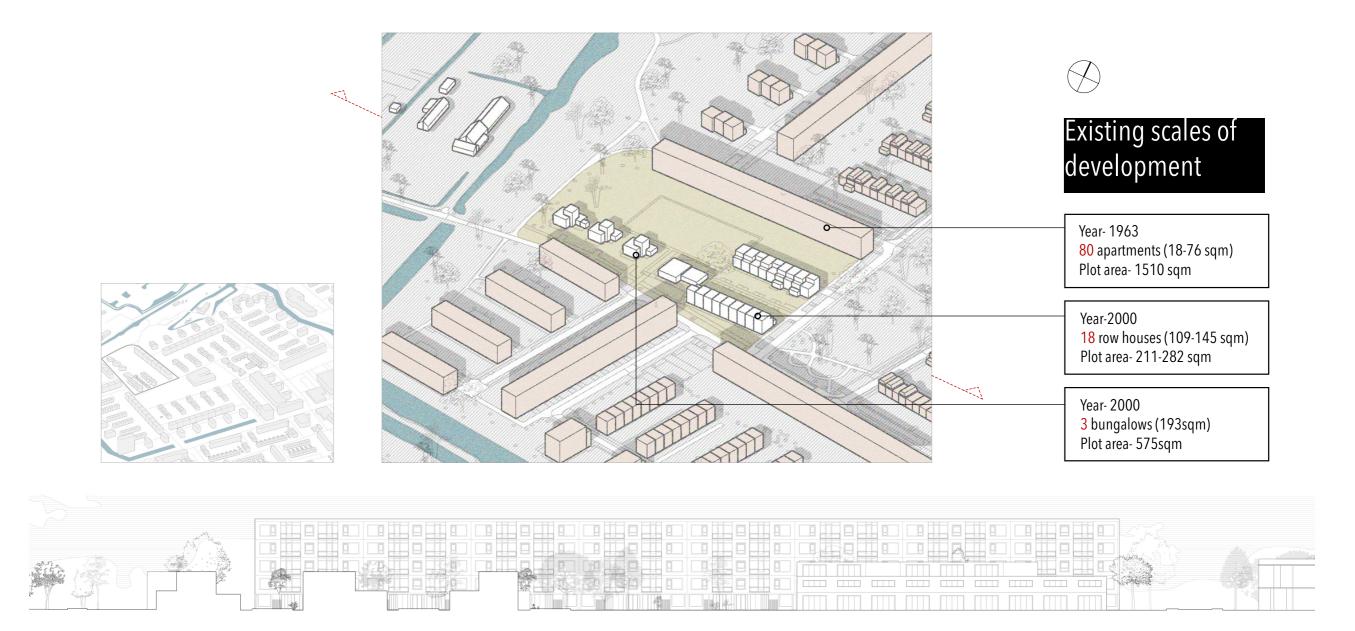


OPEN SPACE IS MERELY **A BY-PRODUCT** OF THE BUILT FORM



Day-to-day activitis of residents have no spatial reason to coincide



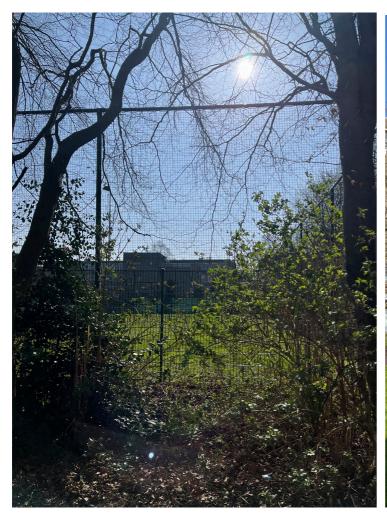




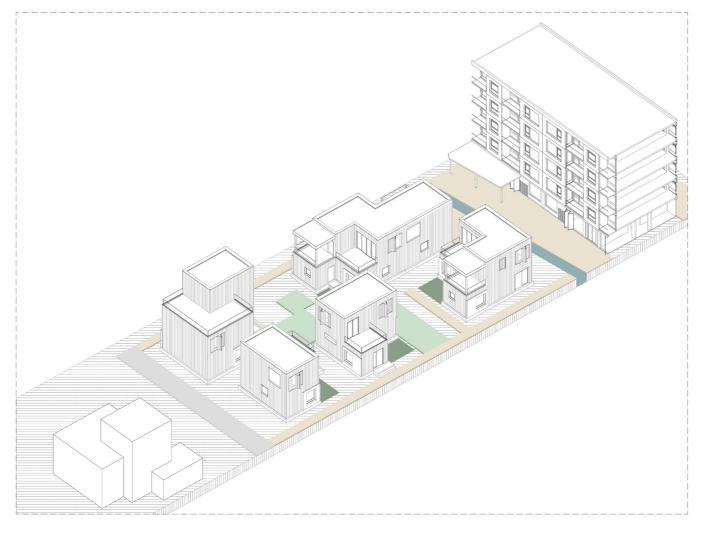




Highrise Row-houses Bungalows

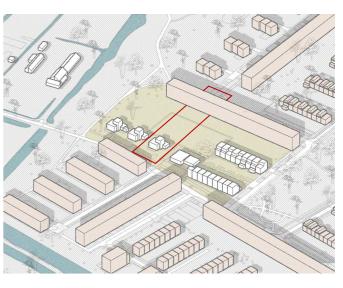




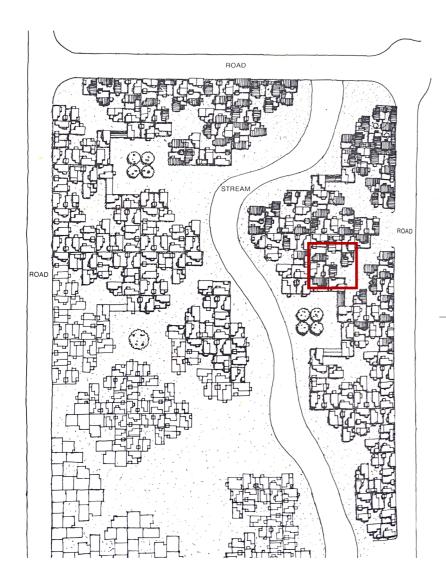


Overview

- $\hspace{1cm} \circ \hspace{1cm} \textbf{Integrate post-war building into the new settlement} \\$
- O Bridge the gap in the starkly different living arrangement
- O Create a balance between public and private open space



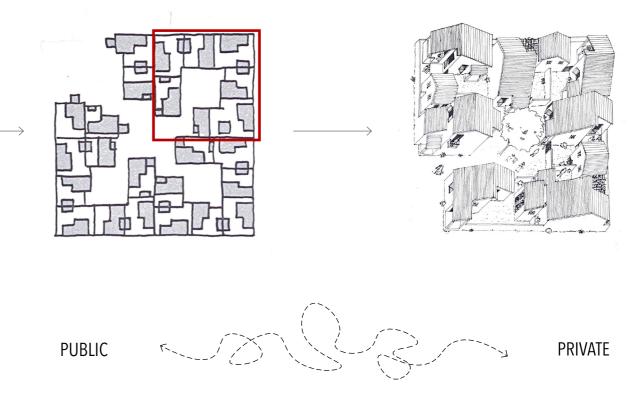




Belapur Housing by Charles Correa (1983)

The heirarchies of space

SOCIETY - the aggregate of people living together in a more or less ordered community.





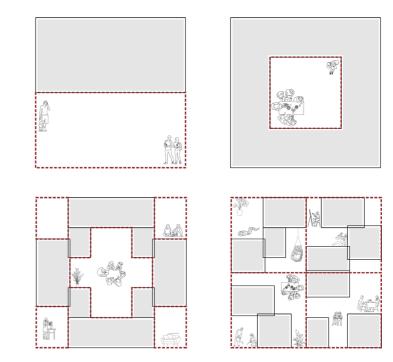
Concept sketches of the Amsterdam Orphanage by Aldo van Eyck (1960)



Small interior plaza in the PREVI Housing Project, Lima (1969)



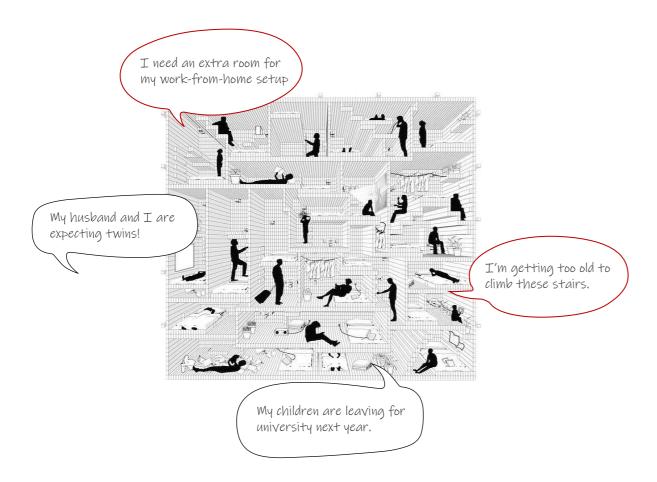




the HUMAN SCALE, the MEDIATOR, the ZONE OF TRANSIENCE

The 'in-between'

Transience of society





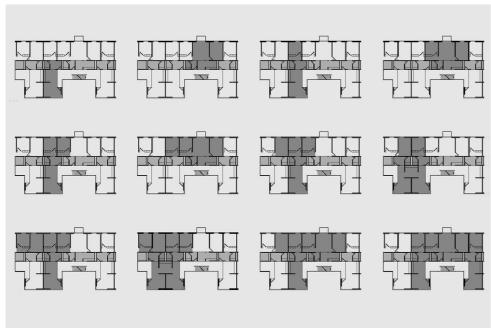
2005



2021

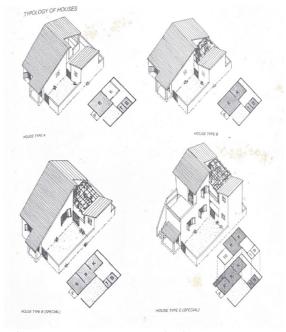
Permanence of the built environment resists change

Incremental through re-arrangement



Siedlung Hellmutstrasse / A.D.P. Architektur und Planung Switzerland 1985

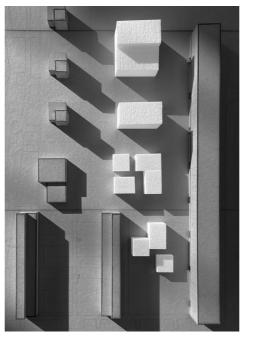
Incremental through construction

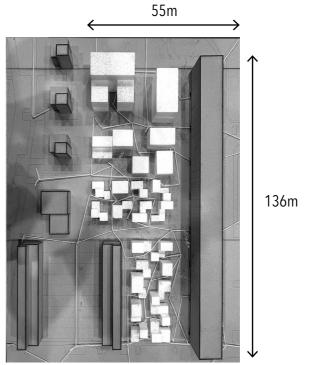


Belapur Low-cost Housing / Charles Correa Navi Mumbai 1983

A balance of scales?



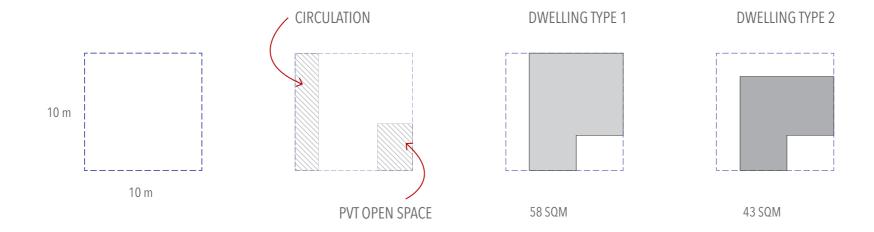






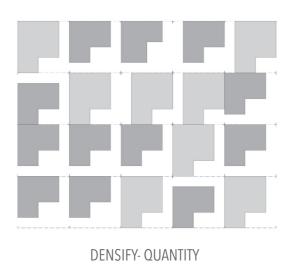
Design Aims

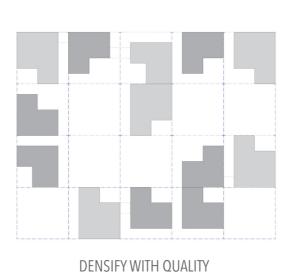
- o can be inserted into any **existing urban residential neighbouroods**
- o scalable from a cluster of units to a large-scale development
- o multiplicity & ease replicating

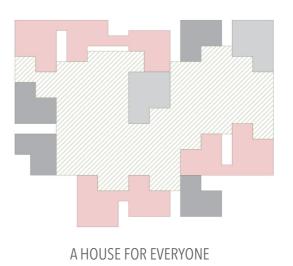


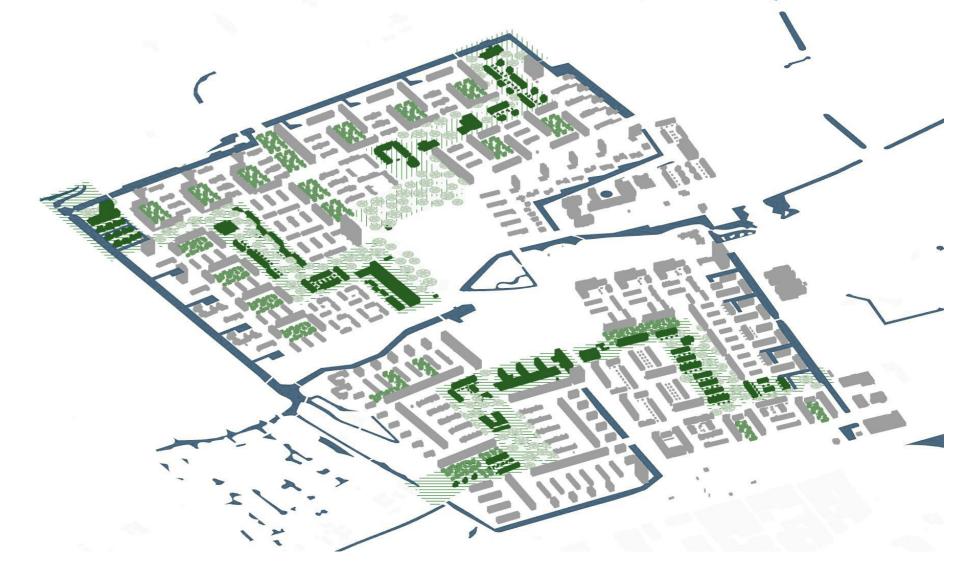
Design Aims

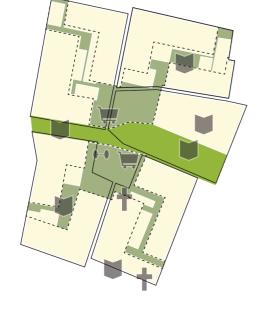
- o various scales of **private to public open spaces**
- o variation in housing typologies to cater to a wide range of people
- o adaptability for future growth





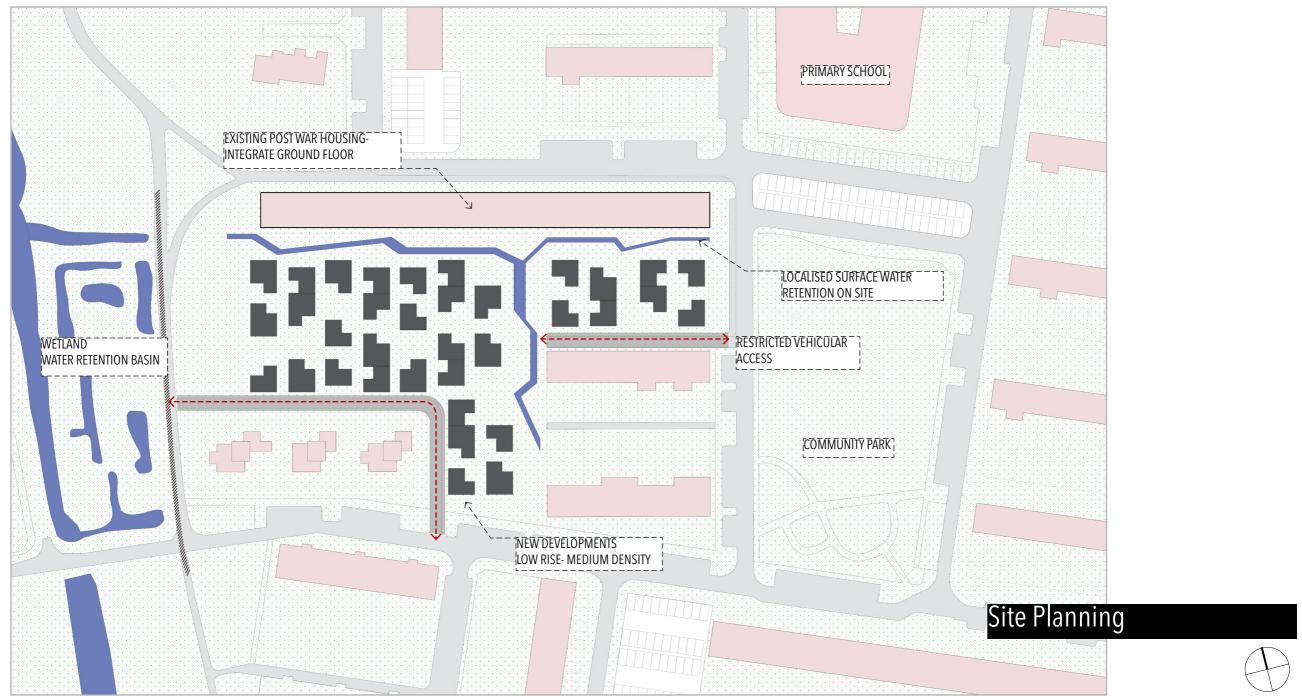


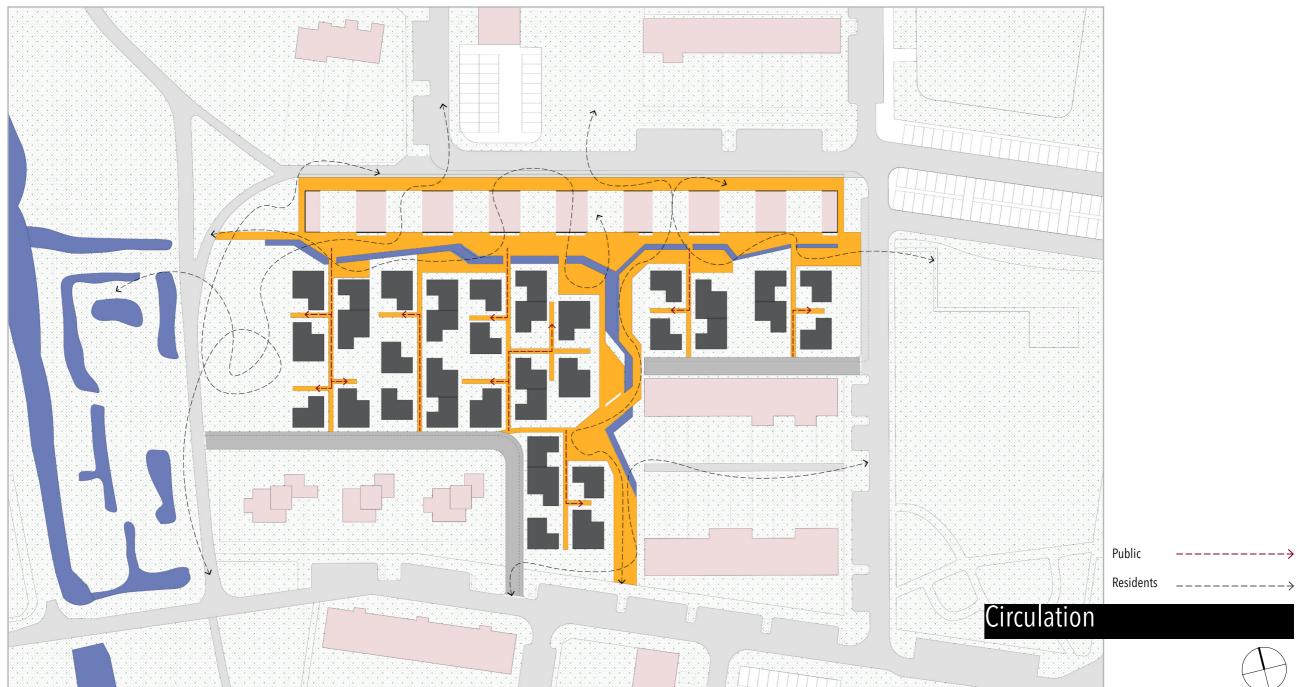




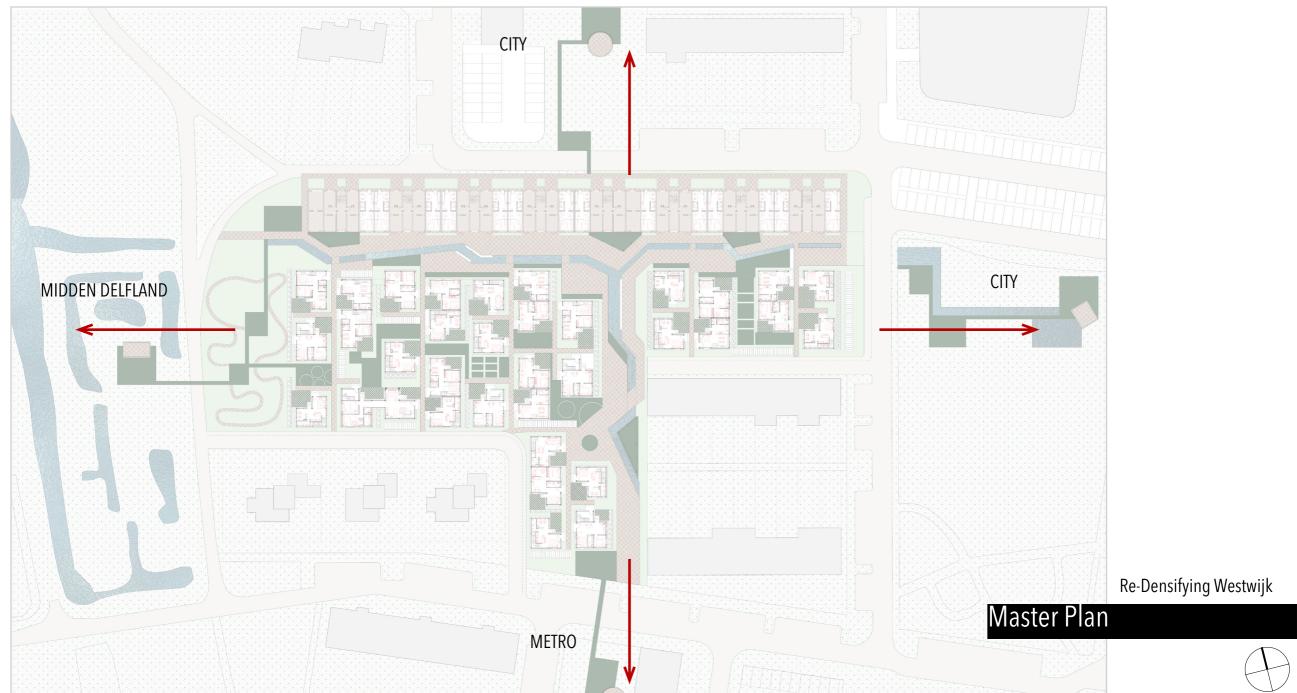
WESTWIJK TODAY

FUTURE OF WESTWIJK

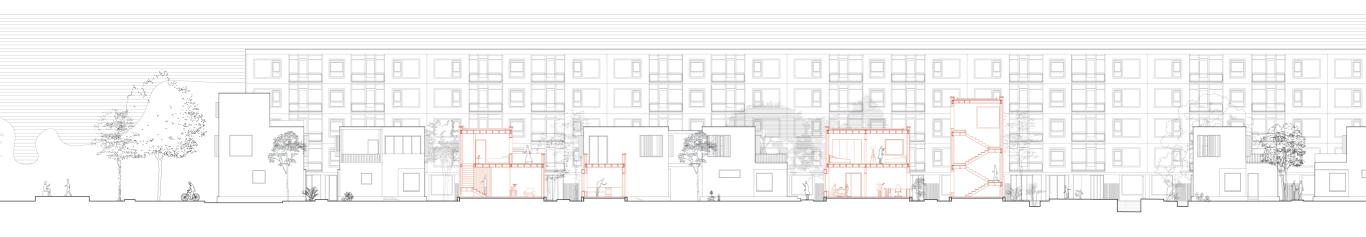


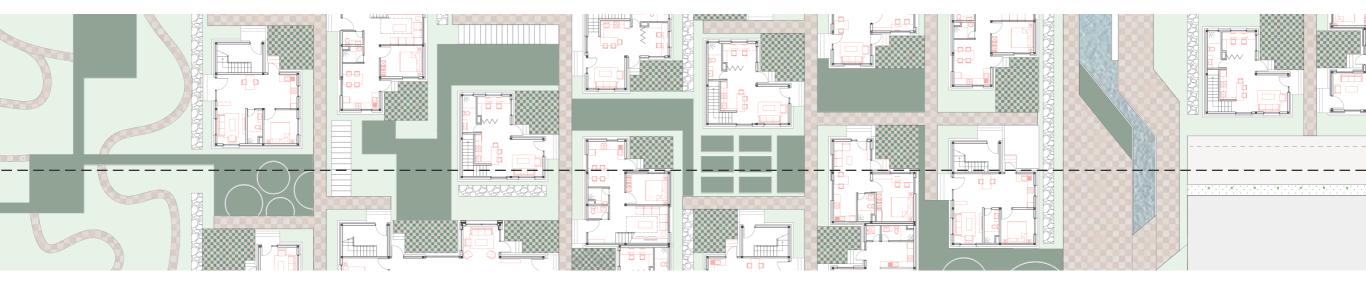




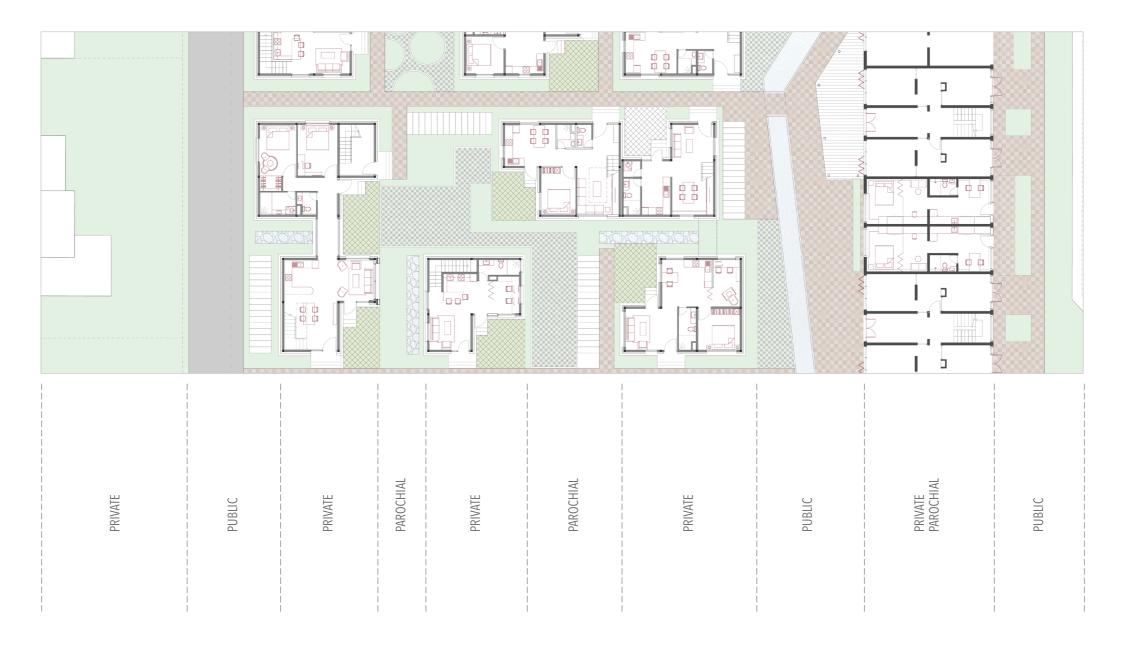












Spatial Transitions









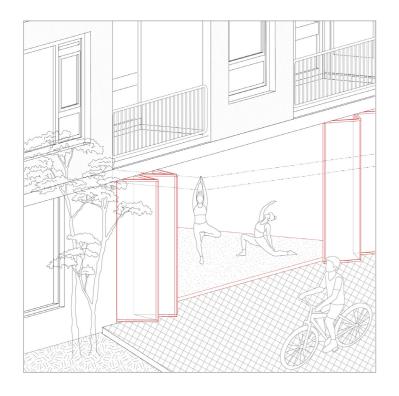


PAROCHIAL PUBLIC

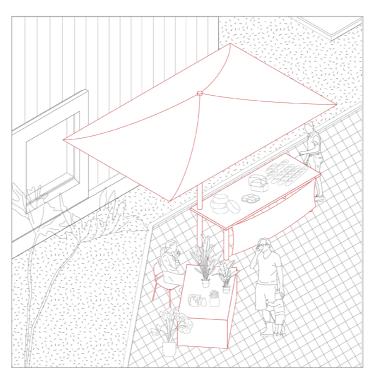




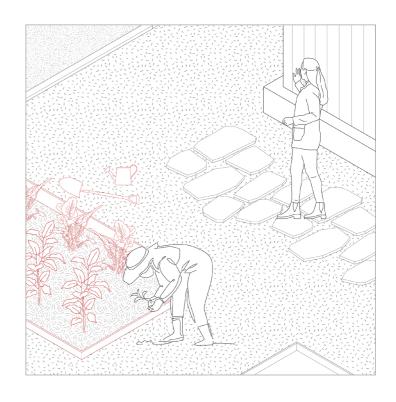
PUBLIC



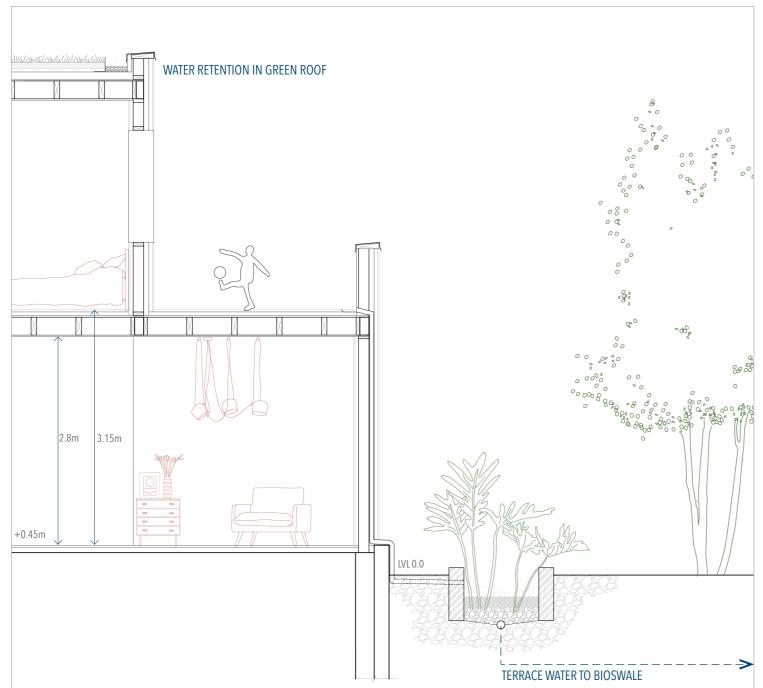
Workshop spaces, creative studios, common kitchen, laundry facilities

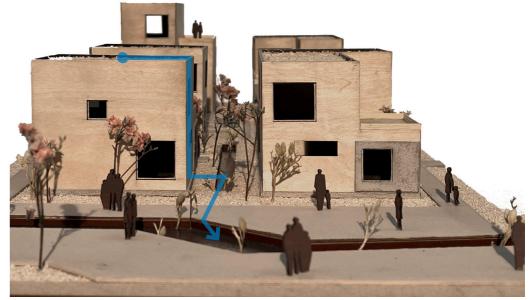


Public plaza, local market pop-ups, canopied pavillions



Community farming, water storage and welcoming biodiversity

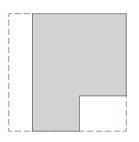




OVERFLOW TO CENTRAL 'WADI'

Type 1

& Variations

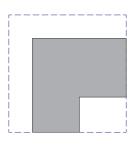


58 SQM



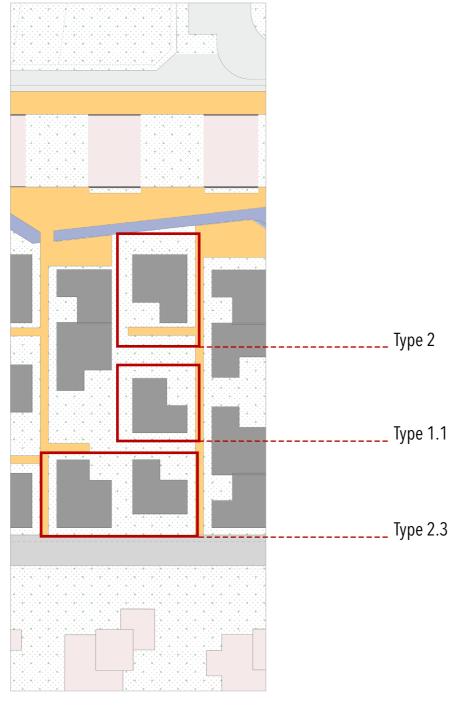
Type 2

& Variations



43 SQM

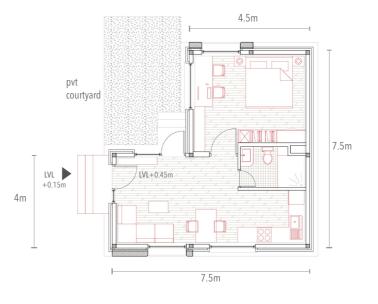




Type 1.1 built 43sqm | unbuilt 10sqm

Studio

appropriate for singles, couples, elderly



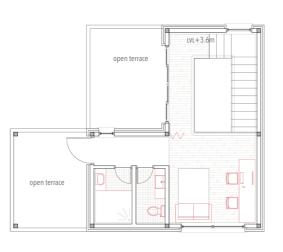
GF

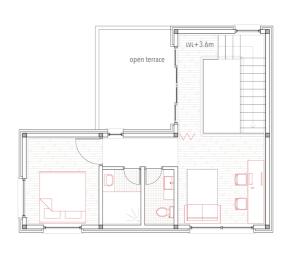
Type 2 built 90sqm \rightarrow 110sqm | unbuilt 25 sqm

Townhouse

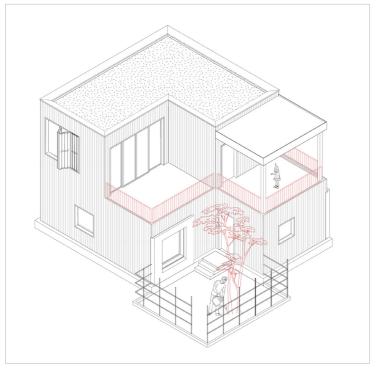
appropriate for couples, small families, elderly with need for care

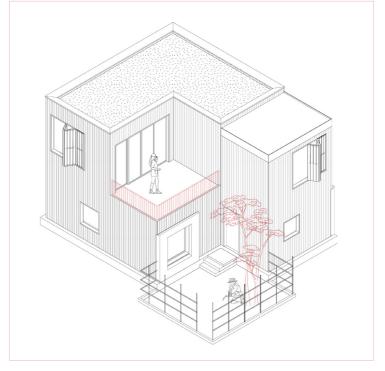






GF FF- EXTENSION



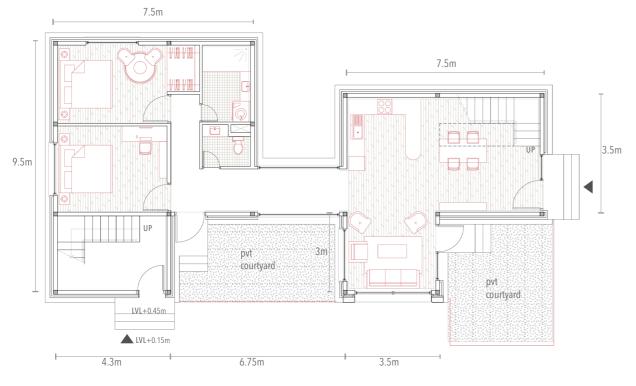


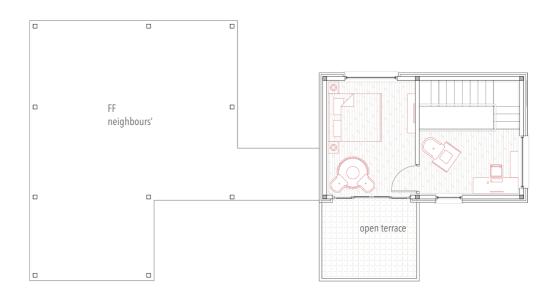
PHASE 1 POSSIBLE GROWTH

Type 2.3 built 130sqm | unbuilt 30 sqm

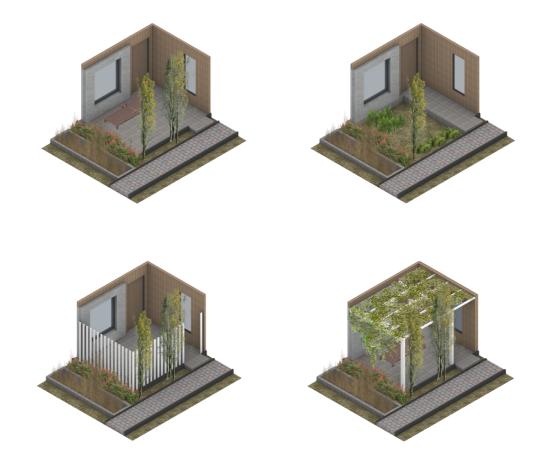
Townhouse- combined

appropriate families, house sharing





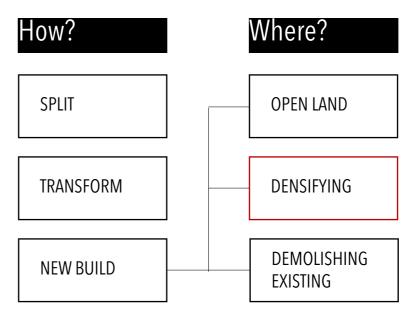
GF FF

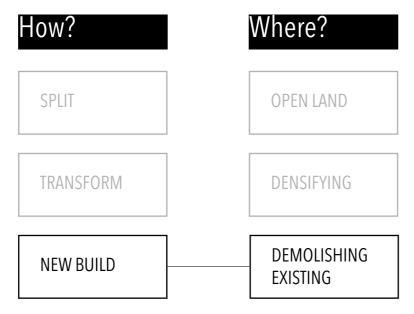


DEFINE YOUR OWN THRESHOLD......



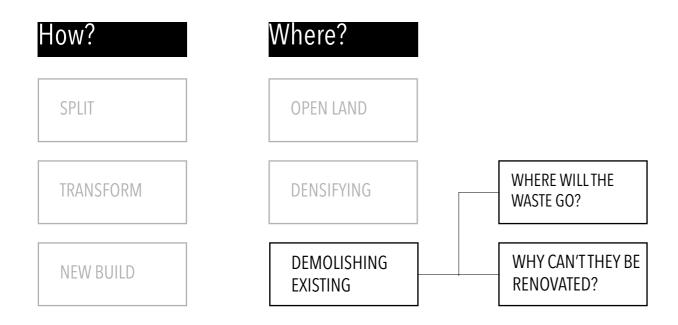
"1 million homes by 2030!"





" An estimated 189 thousand homes will disappear due to demolition."

-Ministry of the Interior and Kingdom Relations

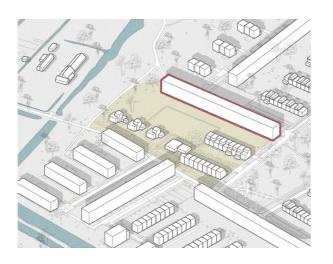




Dura- Coignet

& the System-Construction revolution

A total of 31,000 homes were constructed in the Netherlands in the period between 1959 to 1975.







VISUALISATION BY DURA-VERMEER 1950s/60s



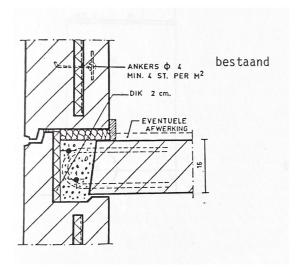
AS SEEN TODAY 2024



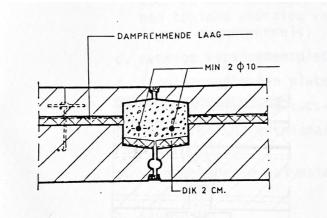
Dura-Cignet Factory in Heijplaat, Rotterdam







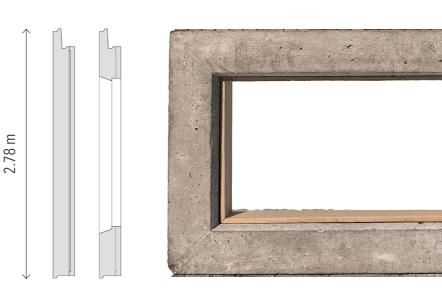
Dura panel to floor slab connection



Connection between 2 Dura panels

Dura- Coignet

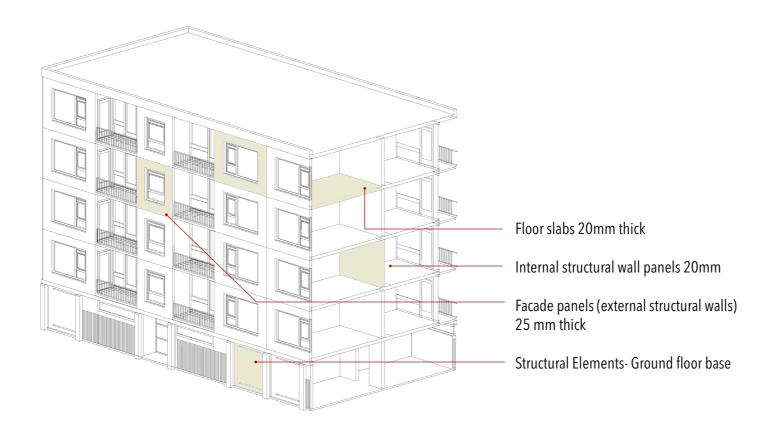
Composition & Connections



15mm polystyrene insulation sandwiched between 2 precast concrete layers

Dura- Coignet

Material Recovery



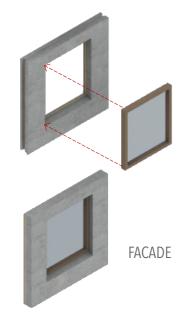


128 railings per building

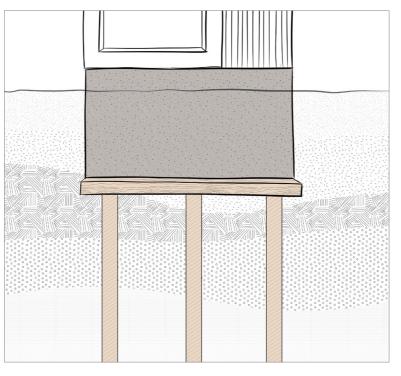
184 exterior facade panels per building

Dura- Coignet

A new life



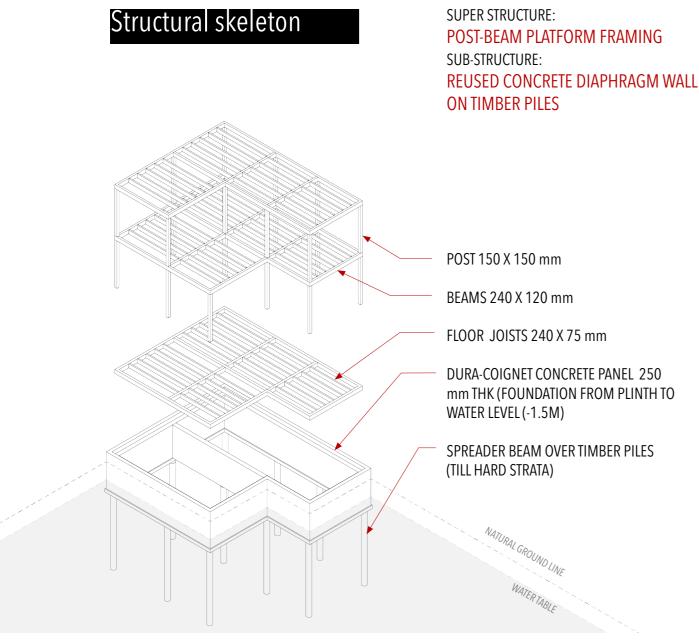


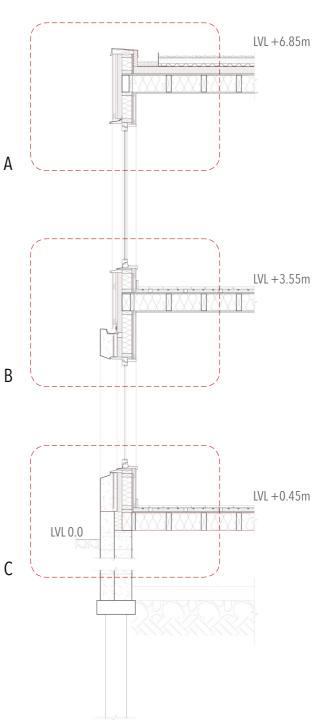


SUB-STRUCTURE



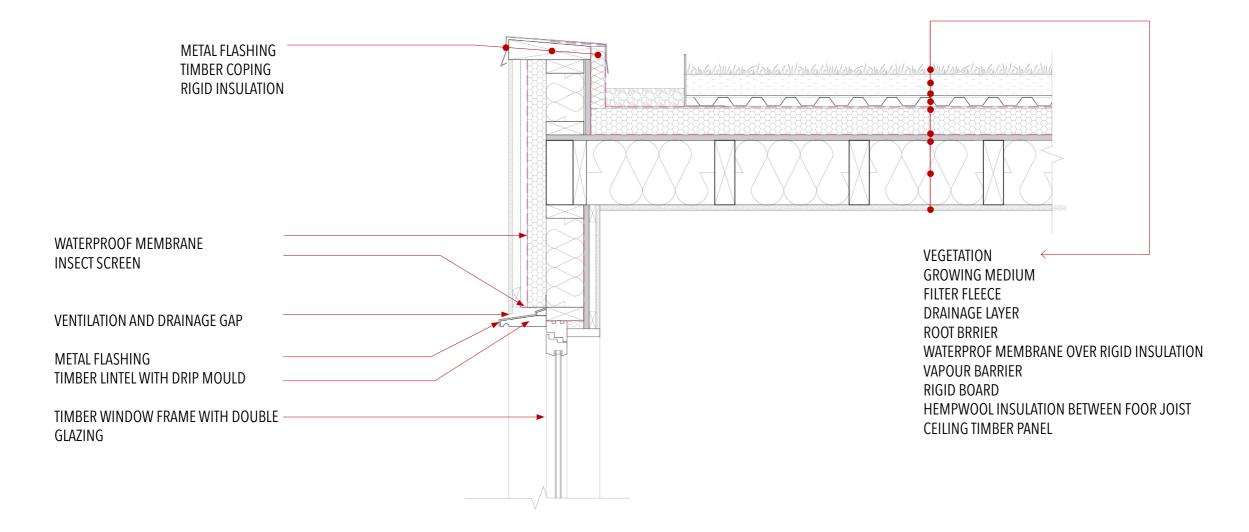
SUPER-STRUCTURE

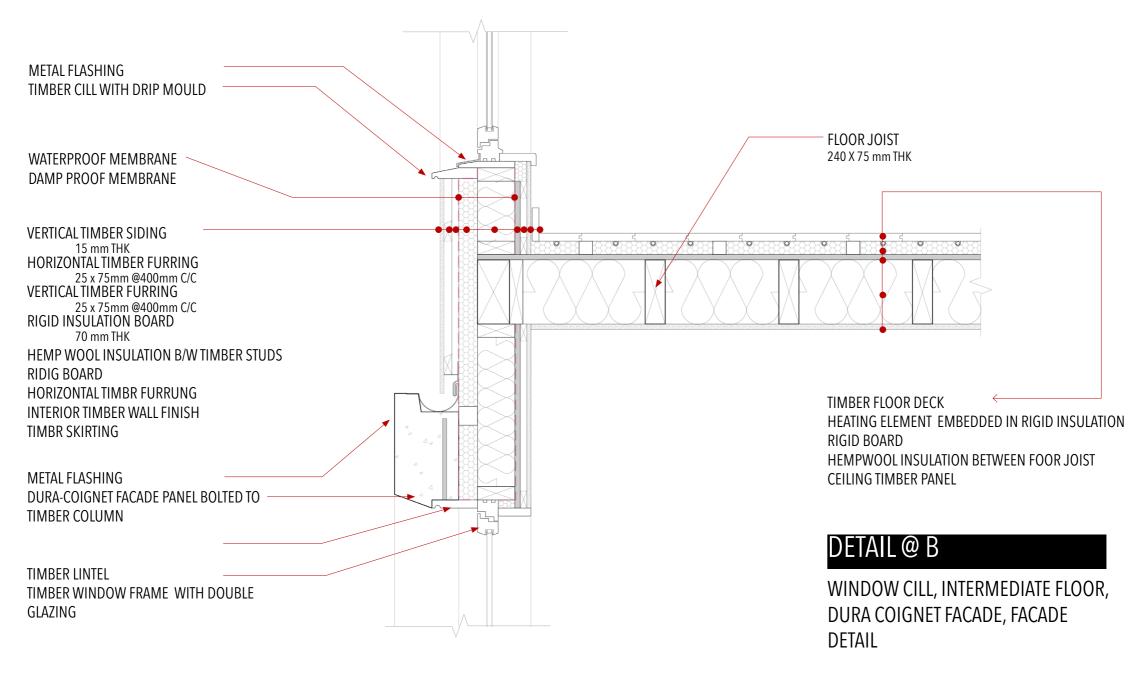




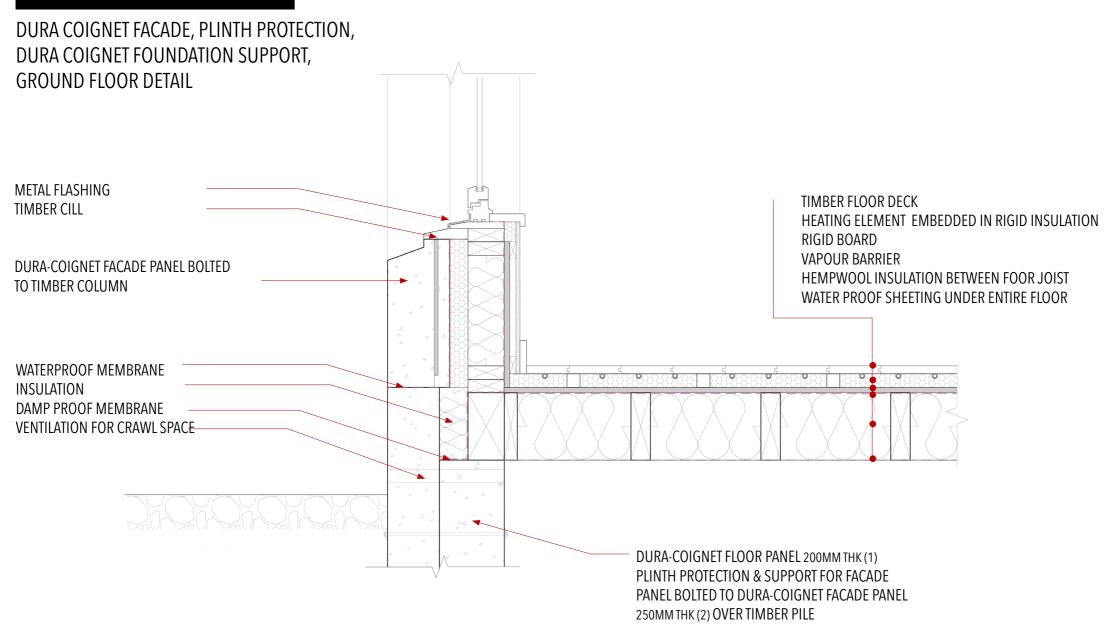
DETAIL @ A

GREEN ROOF WITH PARAPET & WINDOW LINTEL DETAIL





DETAIL @ C

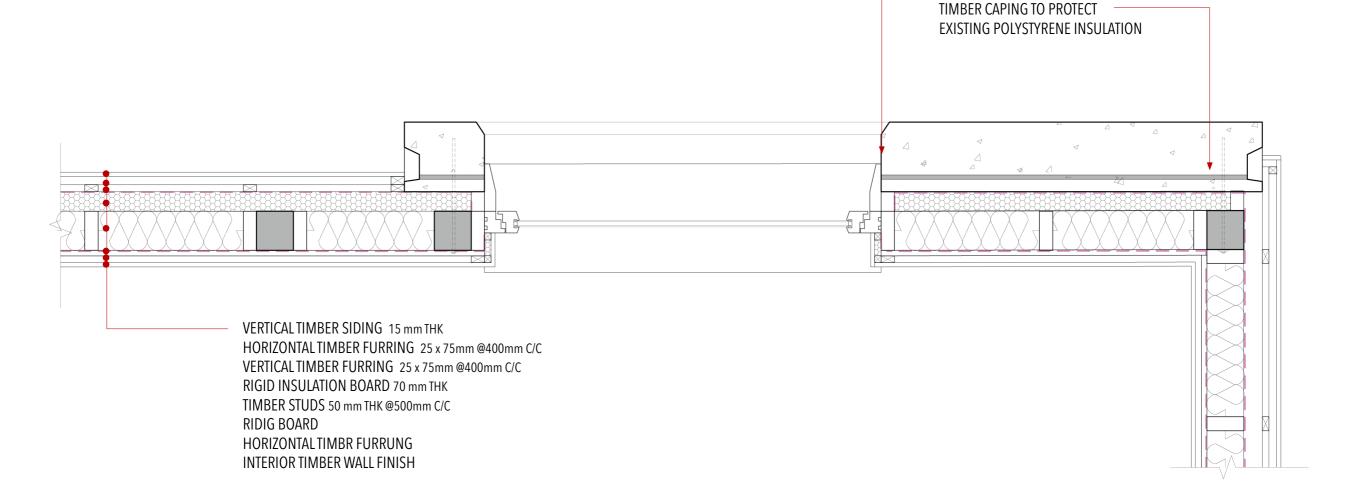


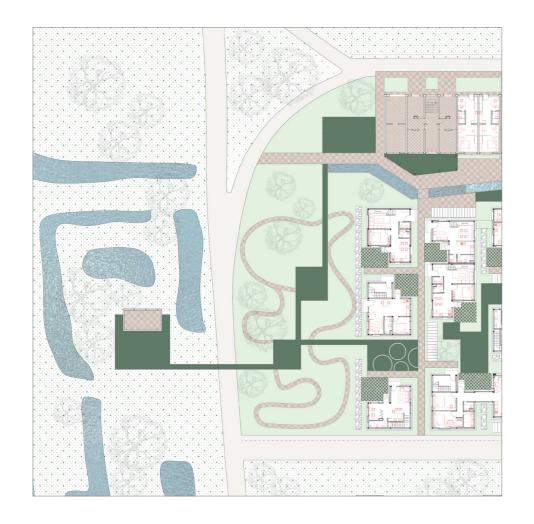
DURA-COIGNET FACADE PANEL

BOLTED TO TIMBER COLUMN

DETAIL @ D

DURA COIGNET PANEL CONNECTION TO STRUCTURE







A Post-war Neighbourhood......for the changing landscapes



The aim is not just to build houses, it is to build a *community*.



AMRITA SEN | Ecologies of Inclusion

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