House as a Mediator

P5 Presentation, 27th June 2017 Heejin Chung 4465938 Heritage & Architecture - Rehousing Studio

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1. Introduction

- Intervam Building System - Urban Construction

2. Research Question

- Current Situation
- Problem Statement
- Value Assessment

3. Design

- Concept
- Urban Planning
- Fragments
- Program
- Construction Detail
- Perspective View

4. Reflection



VAM Systeembouw

- Prefabricated construction method



Location of three production factories

- Almost half of the total Intervam housings were







layout of the space plan



1. Introduction_Urban Construction





1959 Before the urban development Overvecht was a grassland.

1959-1970 Mass housings were built at a rapid pace



the greenery was began to be filled with buildings to densify the area since 1980s



Two employees of the Public Works Department of the City of Utrecht is building a model of the district Overvecht Utrecht.



the basic concept of "Wijkgedachte"





Ν

parks in green frame
green frame
high-rise buildings
medium-rise buildings
low-rise buildings
 Railway

1. Introduction_Urban Construction





Demolition of Intervam flat in 2011 (Donaudreef, Overvecht-Zuid)

2. Research Question

: Current Situation







communal space: square



communal space: courtyard



private garden: passage















retail: bakery



office: housing corporation (Mitros)











Ground Floor Plan





1st Floor Plan



external staircase





Ground Floor Plan

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4th
3rd
2nd
1st



Change of Residents in Intervam Housing











1960s : middle-income family

1980s : immigrants from different cultural background

after 2008: students became the majority of tenants

2. Research Question

: Problem Statement



Dilemma 1. Modern principle : openness, transparency

VS

Individualized society : privacy, safety



view of garden from the public street (past)

view of garden from the public street (present)

Public facilities on the ground floor Dilemma 2.



public library (1973)



small shops in two-storey Intervam building (1983)

VS

Changing circumstances



space where the public library was located remained empty



two-storey Intervam building is now used for community house

Public facilities on the ground floor Dilemma 2.



Changing circumstances



lack of interaction between street and plinth

Dilemma 3.

spacious and green outdoor area



view of the garden in 2014



communal courtyard in 2014

VS

lack of maintenance



view of the garden in 2016



communal courtyard in 2016





2. Research Question

: Value Assessment



The neighborhood concept, "Wijkgedachte"



concrete structure: neutral design



city scape of Overvecht-Zuid



social value

3. Design

staircase



1.

back entrance



balcony



As Found Fragments












Mixed-use and diverse Intervam building





boundary between public and private

flexible use and mixed program on the plinth



















shop front





outdoor space



Fragment 4











Public Facility : Retail / Social Program



Public Facility : Retail / Social Program



Ground Floor



Public Facility : Office





First Floor



large

Housing : Studio Apartment









Housing : Single Apartment with communal garden





COMMUNAL GARDEN



Elderly / Couple



Housing : Starter Housing with Balcony



COMMUNAL GARDEN





Housing : Large Family Housing with Garden



Ground Floor



First Floor



Target group :



Large family

Equipment :





separate kitchen / living & dining



2 bathrooms / 4 bedrooms



PRIVATE GARDEN

Housing : Small Family Housing with Garden





Ground Floor

First Floor



Target group :



Small family

Equipment:





separate kitchen / living & dining





1 bathroom / 2 bedrooms



PRIVATE GARDEN

Housing : Small Family Housing with Garden + Studio Apartment



Ground Floor







53

Public Facilities Ground Floor retail (1.473 m2) [평년[1년] [년][1년][1년]] [년[1년] communal garden ; bakery, hair salon, cafe, restaurant etc. square private garden social program (741 m2) ; donation store, bicycle L81 repair, library, community <u>F</u> space, shared meeting ┍┯╢┯┯┯╢┯┯┯╢┯┯┯╢┯┯ ┝╋╢╈┼╋╢╈┼╋╢┿ ╺┲╵┰╪╵╪╵┲┥╄╵┚╪ space etc. courtyard private garden **First Floor** office (1.397 m2) ; startup office, co-working space etc.

Housing

single apartment with communal garden (12 households)

small family housing with garden (20 households)

large family housing with garden (20 households)

studio apartment (31 households)

starter housing with balcony (14 households)





TOTAL: 331 dwellings

3. Design_Program

Existing

New





storage (1.236m2)

office (1.397m2)

retail (1.473m2)

social (741m2)

3.611 m2



Front

1. remove all the window frames, handrails and part of concrete cladding





1. remove all the window frames, handrails and part of concrete cladding

Existing Plastic Window Frame







Front

1. remove all the window frames, handrails and part of concrete cladding



2. extend the slab with in-situ concrete and add insulation

in-situ concrete connection with existing structure



1. Existing Vertical Section A



Rear



2. Existing Vertical Section B

1. remove all the window frames, handrails and part of concrete cladding 2. extend the slab with in-situ concrete and add insulation



New Concrete Slab Connection



New Concrete Slab Connection



Front

1. remove all the window frames, handrails and part of concrete cladding



2. extend the slab with in-situ concrete and add insulation



3. new steel structure and precast concrete balcony



Rear



1. remove all the window frames, handrails and part of concrete cladding 2. extend the slab with in-situ concrete and add insulation

3. new steel structure and precast concrete slab



Front

1. remove all the window frames, handrails and part of concrete cladding



2. extend the slab with in-situ concrete and add insulation



3. new steel structure and precast concrete balcony



Rear



1. remove all the window frames, handrails and part of concrete cladding 2. extend the slab with in-situ concrete and add insulation

3. new steel structure and precast concrete slab



4. new aluminum window frames and steel handrails



2. new aluminum window frames, steel grating, and steel handrails





2nd ~ 4th Floor Aluminum Window Frame







3. Design_Construction Detail



3. Design_Construction Detail



3. Design_Construction Detail





open passage through the communal space



public facilities along the arcade





balcony connected to the communal garden









community space



entrance hall

DESIGN as a ongoing process...





old

OR

new



DESIGN as a ongoing process...



old	BUT	new
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Strengths and Opportunity

1. encourage people to engage with the surrounding environments.



2. bring diversity to the monotonous residential block.





Flexible and Diverse use of space

Weaknesses and Threats



facility (privacy, noise...)

