REVISIT

TO MOLENVLIET PROJECT

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GENERAL IMPRESSION Living Environment



LIVING STORIES Renovation Activity



INTRODUCTION

Derived from a prize-winning design,
Molenvliet Project (Papendecht, the
Netherlands) was realised in 1976. This
project coalesced the merits of Support
Building in an all-sided scope of tissue,
support and infill level, and was appraised by Prof. John Habraken as "the
first blown Support/Infill project".



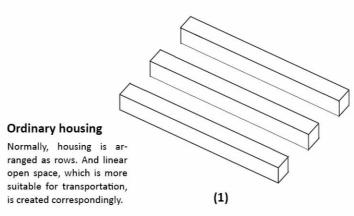
Original Photos (Provided by Mr. Frans van der Werf)

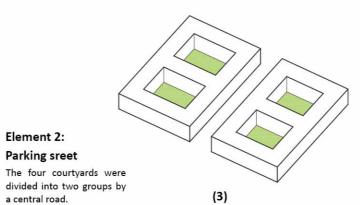
GENERAL IMPRESSION

Living Environment

Basic Elements

There are three basic elements, which shaped the community, were involved: the courtyard, the parking street and the alleys.





Element 2:

Parking sreet

a central road.

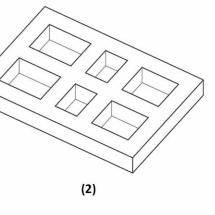
Element 1: Courtyard

Arranging dwellings in both east-west and north-south directions helps to improve the density. What's more, the concentric open space is created to promote neighbourhood communication.

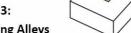


Element 3: **Connecting Alleys**

The four courtyards are never isolated, but with obvious breaks according to the original environment and existing buildings.



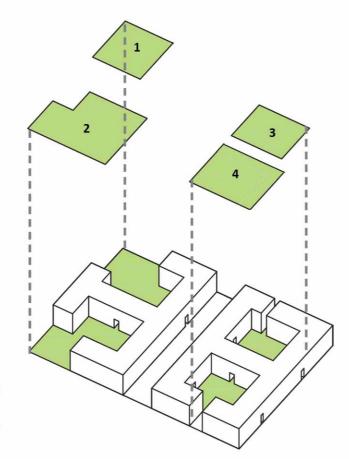
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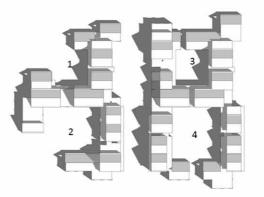


COURTYARD

The courtyards as the concentric open space were adapted not only to promote neighbourhood communication, but also to achieve high density.



- 1. Entrance courtyard
- 2. Garden courtyard
- 3. Entrance courtyard
- 4. Garden courtyard



Two kinds of courtyards were designed. All the entrances for each apartments were organised in the entrance courtyards, while garden courtyards consist of privite or shared gardens. They were completely different design. However, one garden courtyard were changed without the users approval.



Picture of entrance courtyard 1



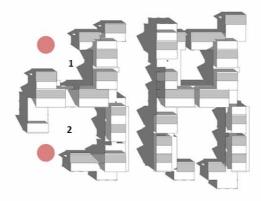
Picture of garden courtyard 4



Picture of garden courtyard 2 (Original design)



Picture of garden courtyard 2 (current design). After change, the original character of garden courtyard fades, and it is now just the same as the other entrance courtyard.



Two big breaks were made as response to the existing buildings.



Break in courtyard 2 was made as the response to existing housing, which works as a part of the courtyard now.



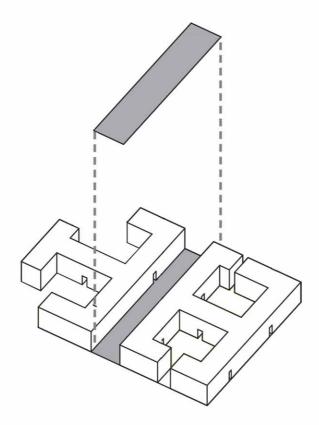
Break in courtyard 1 was created for the primary school nearby. Consequently, the courtyard is connected with the entrance square fo the school. In lunch time, the children eat their meals, play and talk in this place.

PARKING STREET

The cars are planned to be parked in the street. This form is attributed to a car-free neighbourhood, and in addition indicated a slow speed on the street. Influenced by Alexander, the footway along the street was raised.

The central way is for cars, their driving and parking. This pattern is inspired by Christopher Alexander's pattern language. According to it, the walking road shoud be e at least 18 inches (457.2mm) above the driving road. In Molenvliet, the height is only 300 mm.

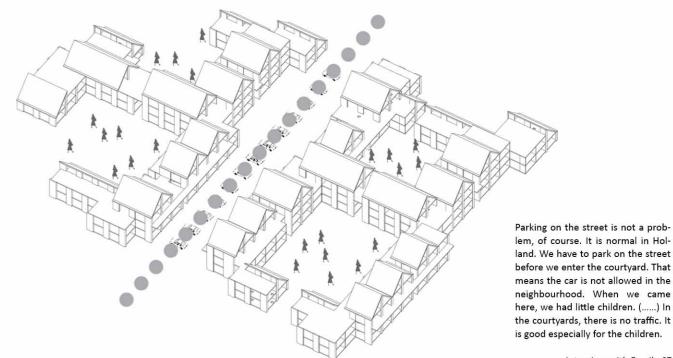
Parking on the street is attributed to a low speed on the central street and a car-free community. This advanrage is particularly appraised by users in the interviews.











Interview with Family 67.

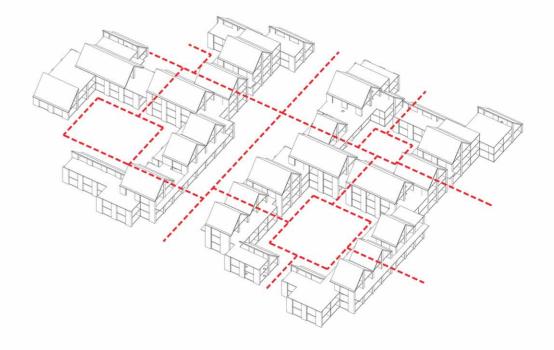
ALLEYS

Alleys were designed to connect both the adjacent courtyards and courtyard with the street. Once needed, these alleys could also be blocked conveniently by adding some doors.



The ways created by the alleys.

"Different alleys lead us to different directions". This is a representative comment which was acqured in the interview with users. From this image, we may find how many ways is allowed in this project. Walking in this community is also a way to have fun.



The alleys can be open or par-tially closed.

Alleys were designed to connect both the adjacent courtyards and courtyard with the street. Once needed, these alleys could also be blocked conveniently by adding some doors.



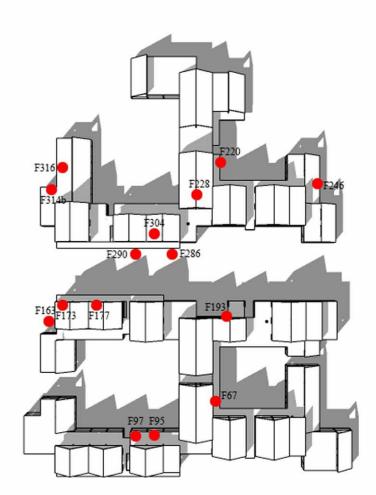
gle-storey or two-storey high; they may be located in the middle point of the building section or not.

LIVING STORIES

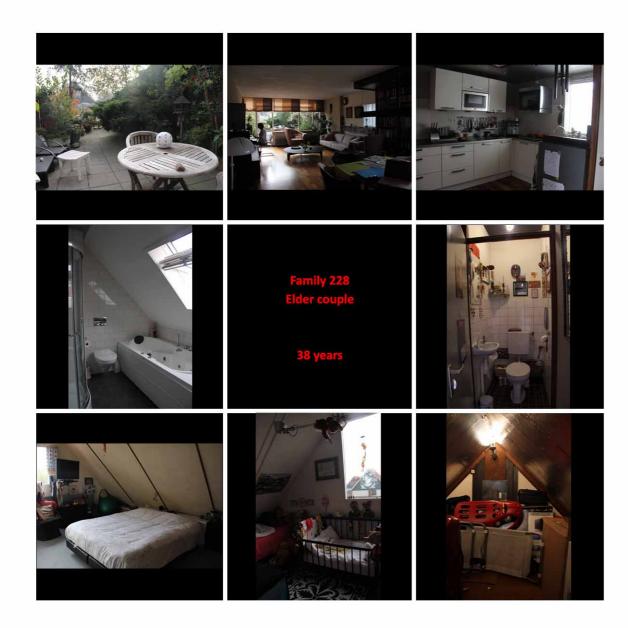
The current living situation of fifteen families is recorded.

	Basic Information				Activity		
	Location	Period	Family	Duplex	Renovation	Plan of change	Plan of move
Class 1	228	38	Elderly couple	√	V		
	220	38	Elderly couple	V	V		
	95	38	Elderly couple	V			
	316	38	Elderly couple	√			
Class 2	286	33	Elderly couple	√	√		
	290	31	Middle-aged madam				
	97	31	Elderly man				
	246	29	Elderly couple	V	√	√	
	304	19	Elderly madam	V	√		
	177	16	Middle-aged madam	√	√		
Class 3	67	8	Family of three	V	1		√
	193	3	Office				
	173	1	Young couple	V			√
	163	1	Young lady	V	√	√	√
	314b	1	Family of three	1			V

Table: The selection of interviewees.



 $oxed{12}$



Infill (upper floor): Colour and materials of the windows were selected by original users. Infill (upper floor): Partitions were designed according to original user's demand. Remove (upper floor): by the user. A small part of partition in the bathroom was removed. Add (upper floor): by the user. A new partition was added. Support (upper floor): by architect Infill (lower floor): Colour and materials of the windows. Infill (lower floor): partitions were designed according to original user's demand. Remove (upper floor): by the user. A small part of partition in the kitchen was removed.

Support (lower floor):

Separation of Support from Infill

by architect

It was a son's bedroom. Now room. The equipments in the bathroom were completely changed by the tenants. In little.

a baby's cot is placed under the window. When the little granddaughter comes, she will use this room as her bed

order to hold the washing machine, a partition was moved a



As the original design, the living room is still combined with dining room. Till now, the tenants are very satisfied with this spacious space.

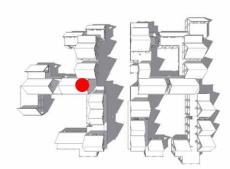
The equipments in the kitchen was changed by the users. And the housing corporation paid some fee.

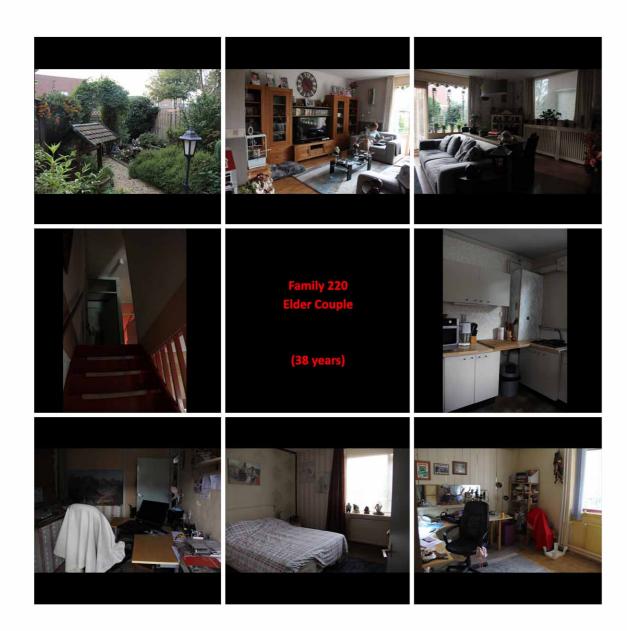
- 1. Main bedroom
- 2. Second bedroom
- 3. Second bedroom
- 4. Bathroom
- 5. Living room & Dining room
- 6. Kitchen

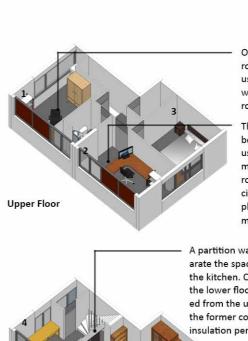
Fig. Current living situation

This apartment is on the second and third floor, facing the central street.

Fig. Location in the community







One son's bedroom is now used as the woman's hobbay room.

The other son's bedroom is now used as the man's hobbay room. And a special table is placed for his model toys.

The shared

courtyard in

front of the hall

was separated

when the old

neighbour

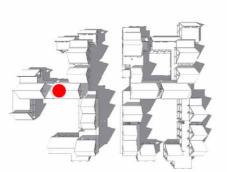
moved out.

A partition was added to separate the spacious hall from the kitchen. Correspondingly, the lower floor was separated from the upper, so that the former could have better insulation performance.

Lower Floor

- 1. The man's hobby room;
- 2. The woman's hobby room;
- 3. Bedroom
- 4. Kitchen;
- 5. Living room & Dining room

Current Living Situation



This family is located in the ground floor and first floor, "coonecting" a garden courtyard with an entrance court.

Location in the community

Infill (upper floor): partitions were designed according to original user's demand.

Infill (upper floor): Colour and materials of the windows were selected by original users.

Support (upper floor): by architect

Infill (lower floor): partitions were designed according to original user's demand.

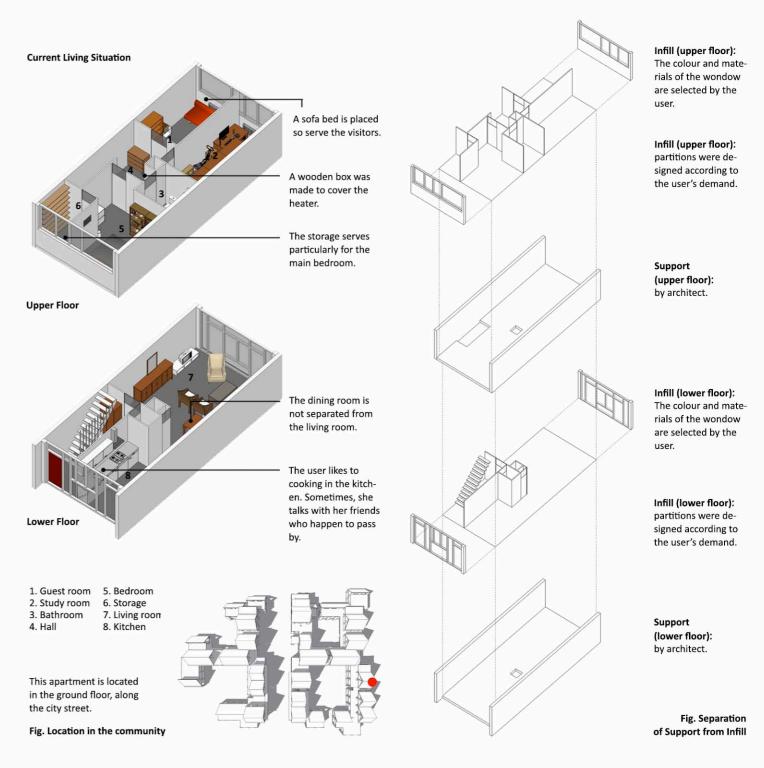
Infill (lower floor): Colour and materials of the windows were selected by original users.

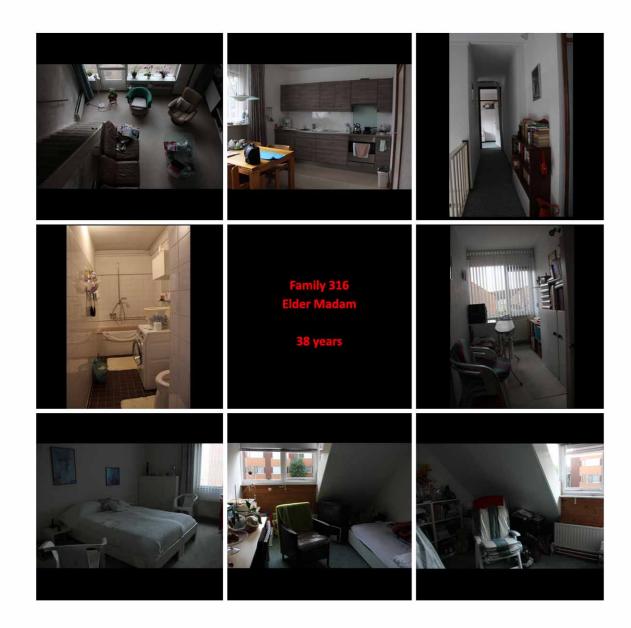
Add (lower floor): A partition was added to separate the living room from kitchen.

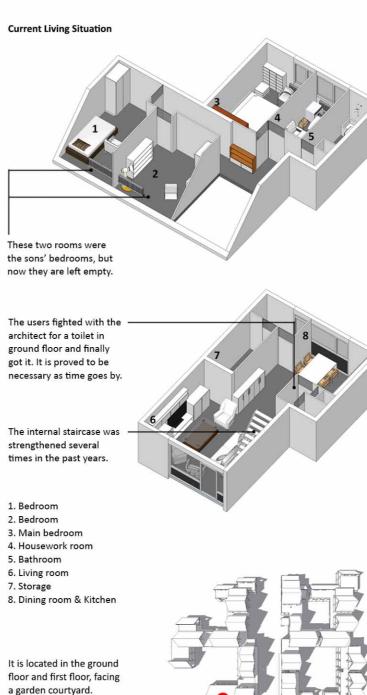
Support (upper floor): by architect

Separation of Support from Infill









Location in the Community

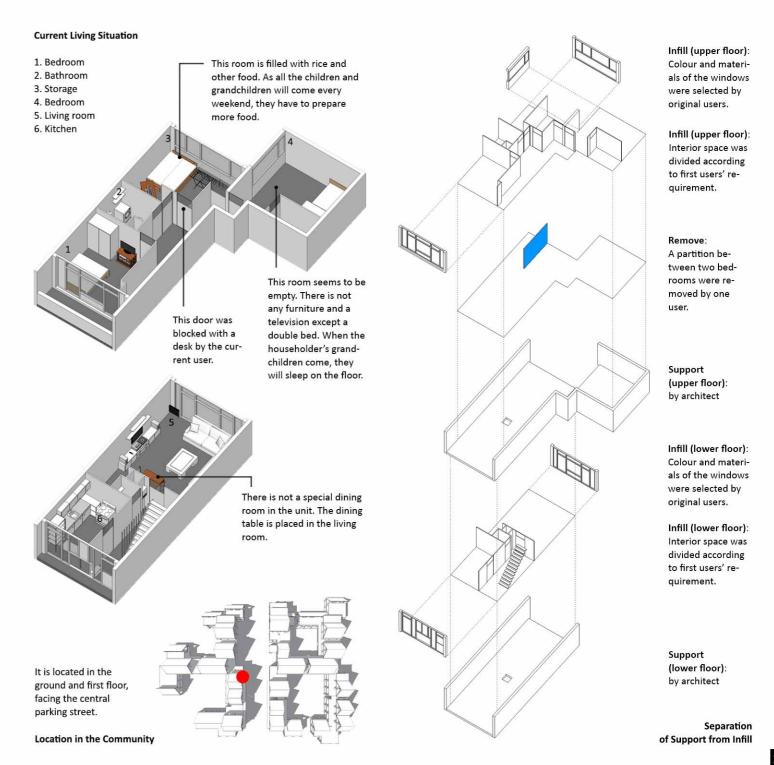
Infill (upper floor): Colour and materials of the windows were selected by original users. Infill (upper floor): partitions were designed according to original user's demand. Support (upper floor): by architect Infill (lower floor): partitions were designed according to original user's demand. Infill (lower floor): Colour and materials of the windows were selected by original users. Support (lower floor): by architect

Separation of

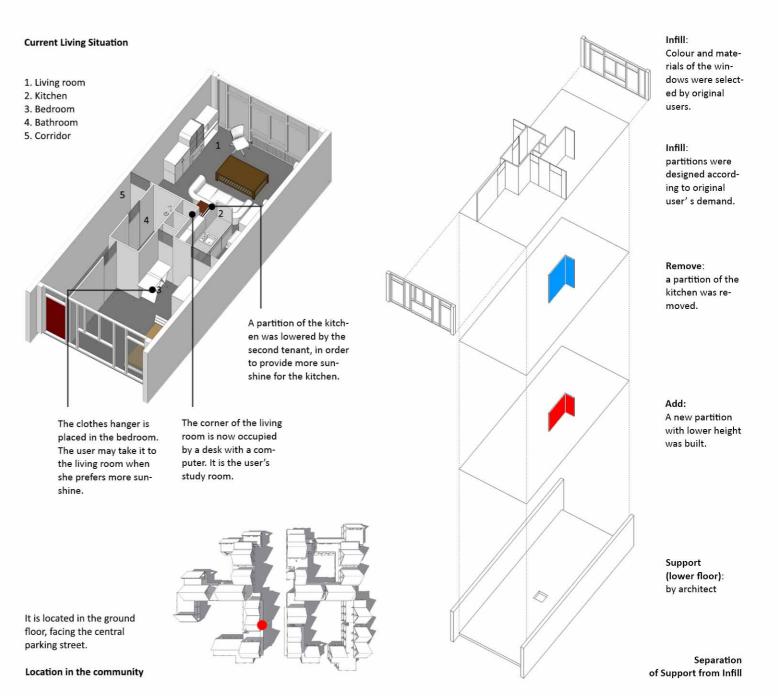
Support from Infill

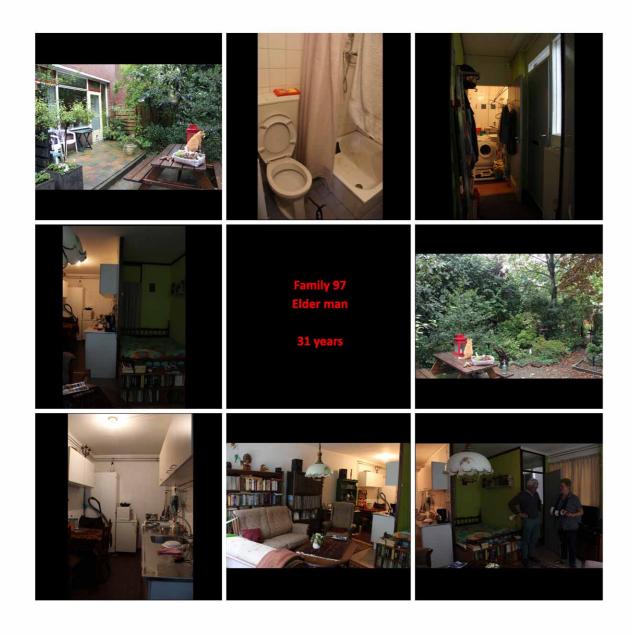
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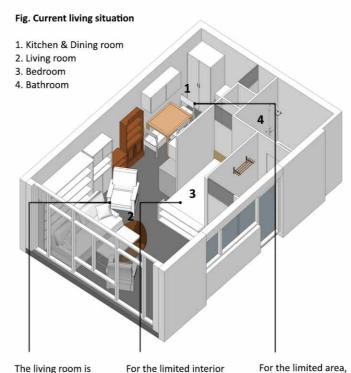












The living room is with a big france window, facing the shared garden.

For the limited interior area, the space for sleeping is not strictly separated from the living room.

the dining room is not

kitchen. There is a big

bowl on the table of

the kitchen. The user cook a very delicious

soup.

separated from the



Fig. Location in the community

Introduction:

This is the smallest apartment in the community. The current user is an elder single man, who cooks a wonderful soup. He did not make any change in the past 31 years.

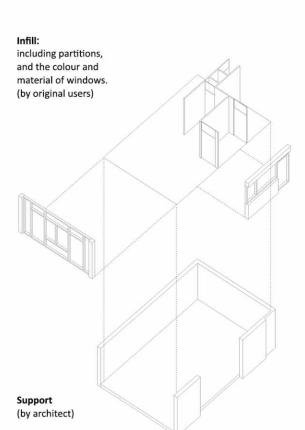
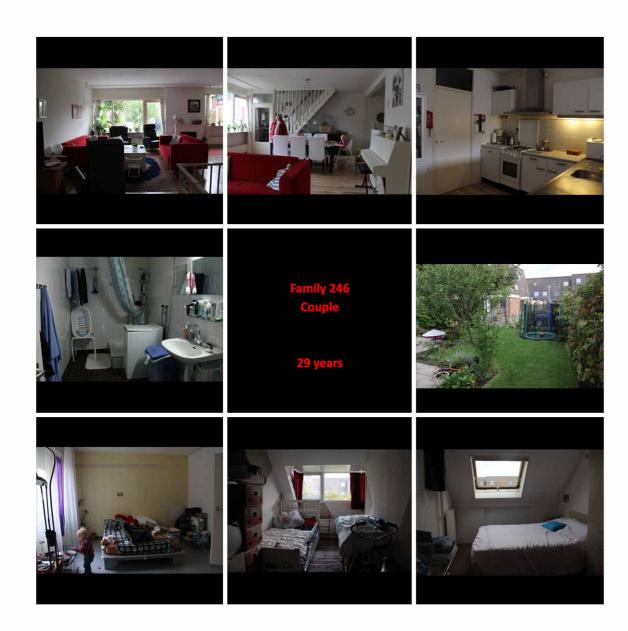
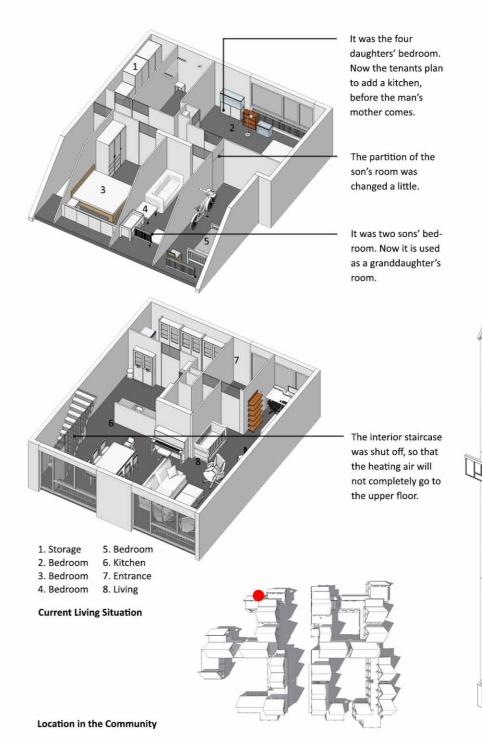
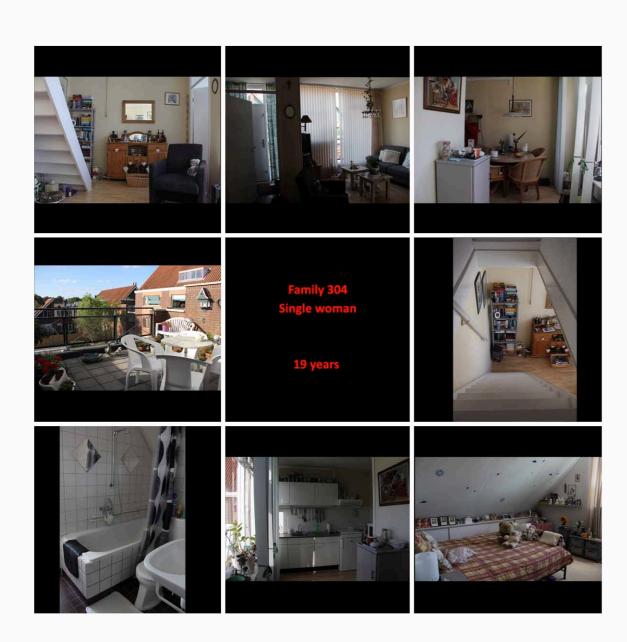


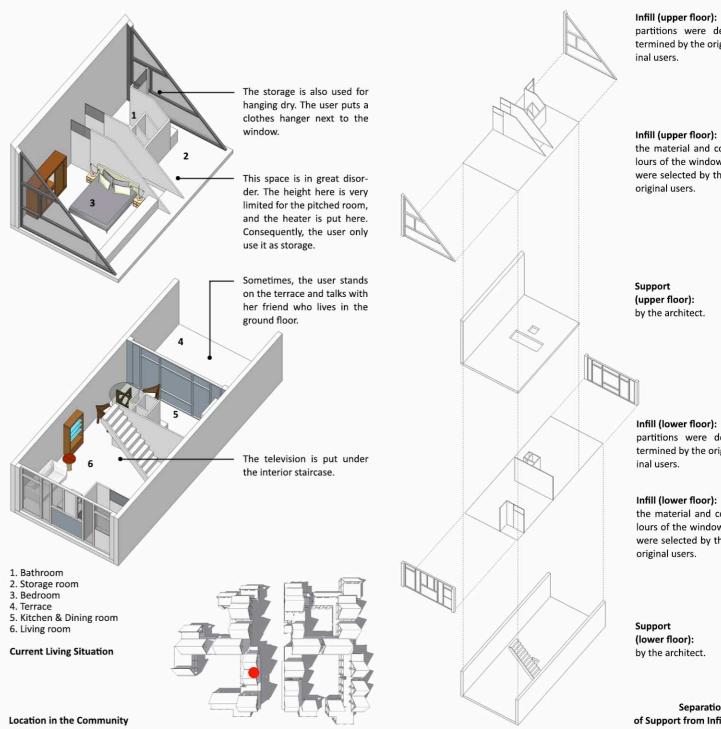
Fig: The separation of Support and Infill





Infill (upper floor): Colour and materials of the windows were selected by original users. Infill (upper floor): partitions were designed according to the original user's demand. remove Change (by current user): two bedrooms were redivided. Support (upper floor): by architect Infill (lower floor): Colour and materials of the windows were selected by original users. Infill (lower floor): Partitions were designed according to the original user's demand. Add (by current user): The interior staircase was shut off. Support (lower floor): by architect Separation of Support from Infill





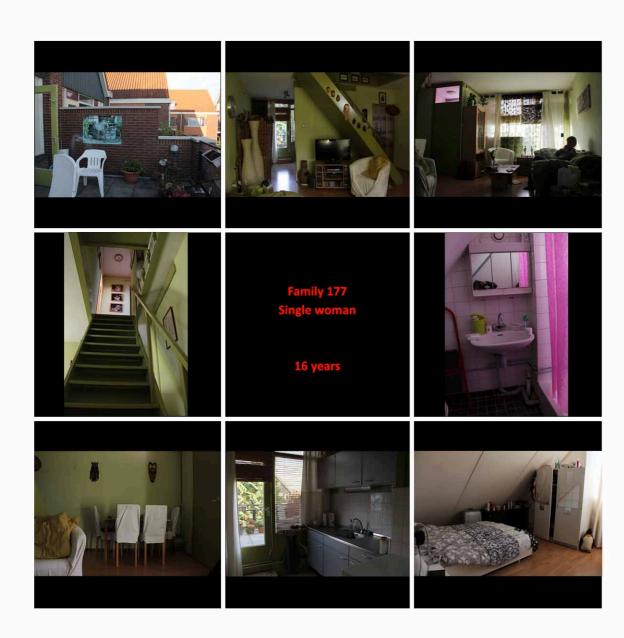
the material and colours of the windows were selected by the

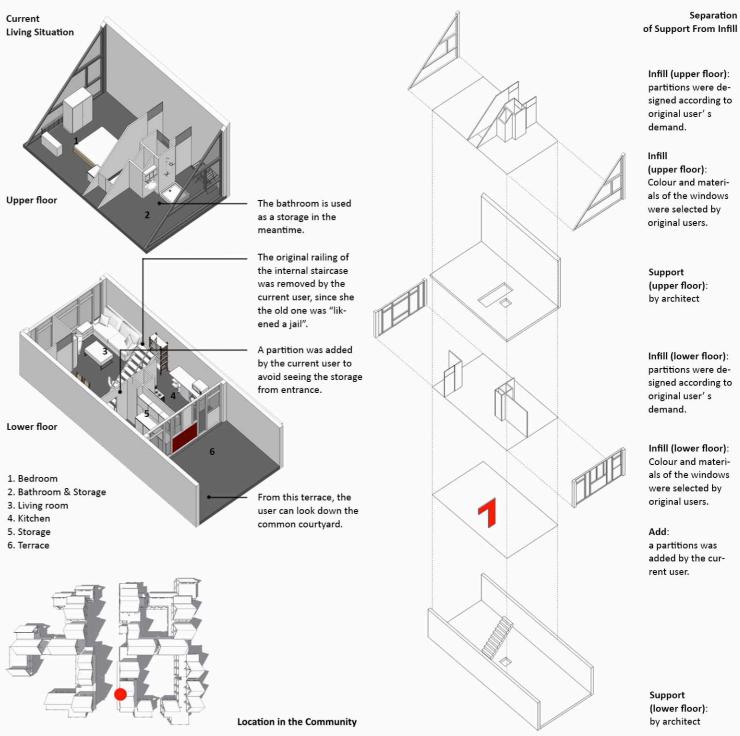
Infill (lower floor): partitions were determined by the orig-

Infill (lower floor):

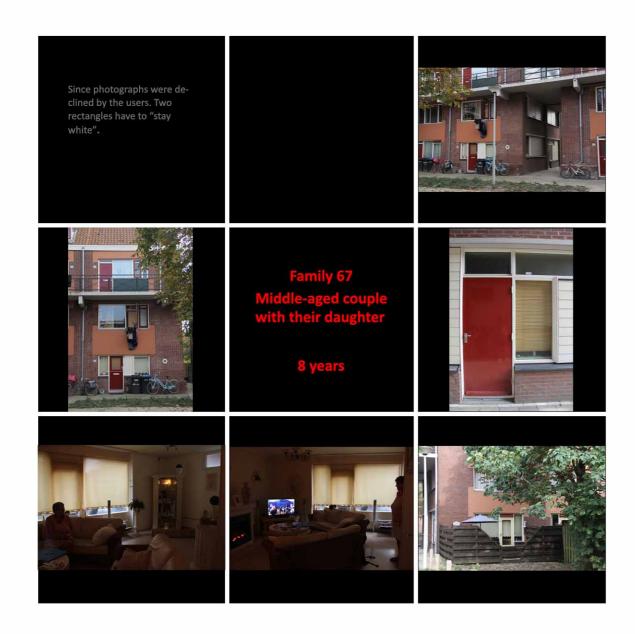
the material and colours of the windows were selected by the

Separation of Support from Infill





Separation



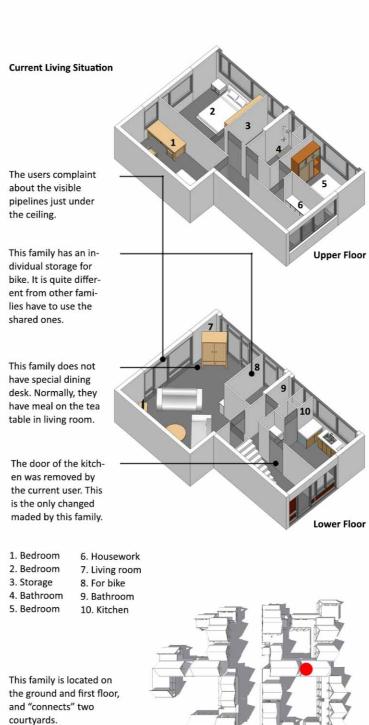


Fig. Location in the community

Infill (upper floor): Colour and materials of the windows were selected by original users.

Infill (upper floor): partitions were designed according to original user's demand.

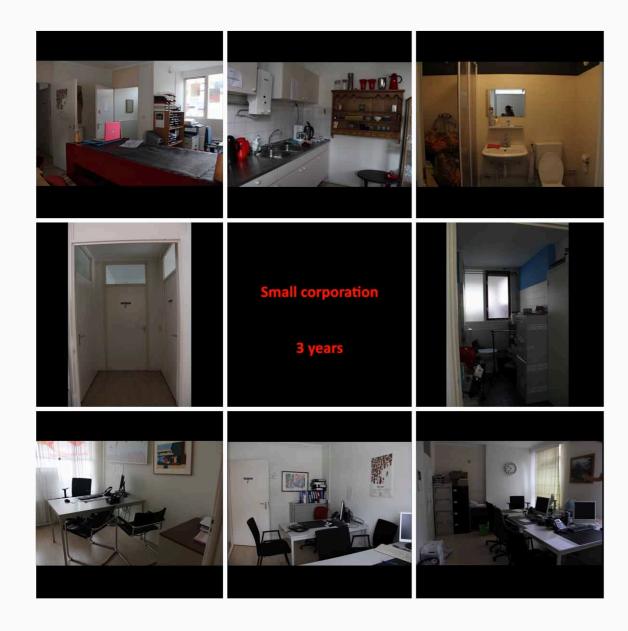
Support (upper floor): by architect

Infill (lower floor): Colour and materials of the windows were selected by original users.

Infill (upper floor): partitions were designed according to original user's demand.

Separation of Support from Infill

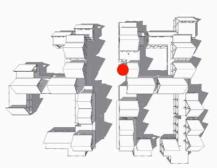
Support (lower floor): by architect





This was a bathroom. Now the place for bath is occupied with a few odds.

The old storage is now still used as storage, but for some valuable machines.



(1) (3): Infill: the colour and materials of the windows were determined by the users.

(2) Infill: partitions designed by the original users. According to the original drawing, they were not changed in the past years.

(4) Support: designed by the architect.

Fig. The separation of Support from



4. Open office 8. Office

5. Bathroom 6. Storage

7. Office

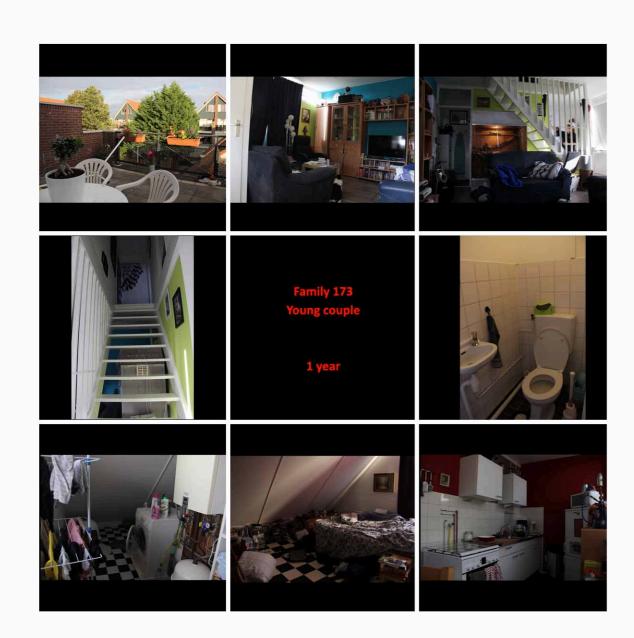
1. Office

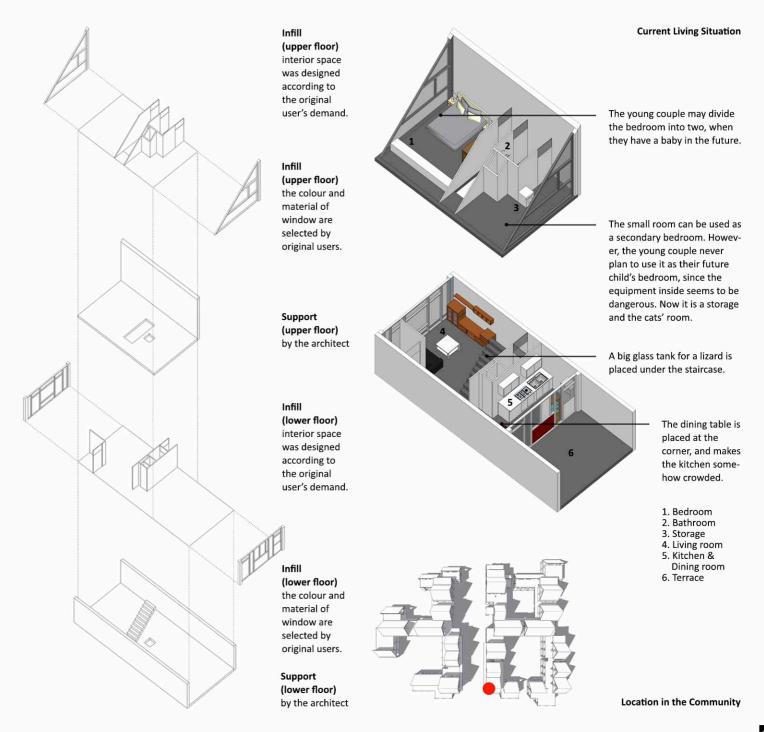
2. Storage

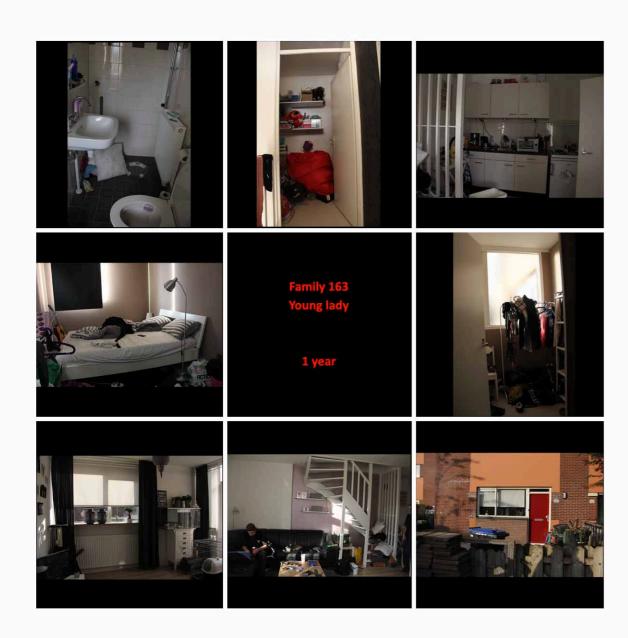
3. Kitchen

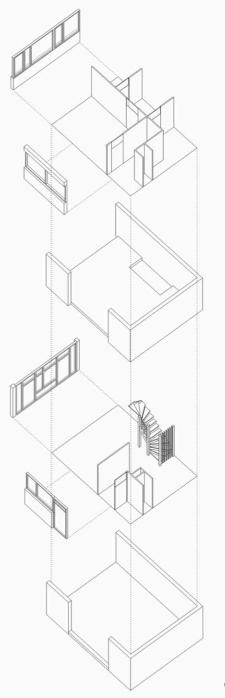
This unit is located on the ground floor, and along the central parking street. The customers can enter the corporation without disturbing other inhabitants.

Location in the Community



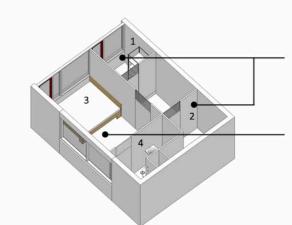






Infill (upper floor):
The colour and
material of windows were selected by the original
user.

Infill (upper floor): interior space was divided according to the original user's demand.

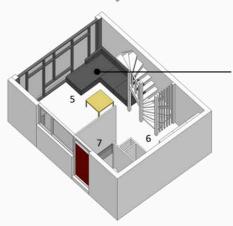


Enough storage is welcomed.

A curtain in the bedroom always keeps closed to prevent the strong sunshine.

Support (upper floor): by the architect

Infill (lower floor): interior space was divided according to the original



In the sunny afternoon, the tenant and her boy friend would like to chat on the sofa.

- 1. Storage
- 2. Storage
- 3. Bedroom
- 4. Bathroom
- 5. Living room
- 6. Kitchen
- 7. Entrance

Current Living Situation

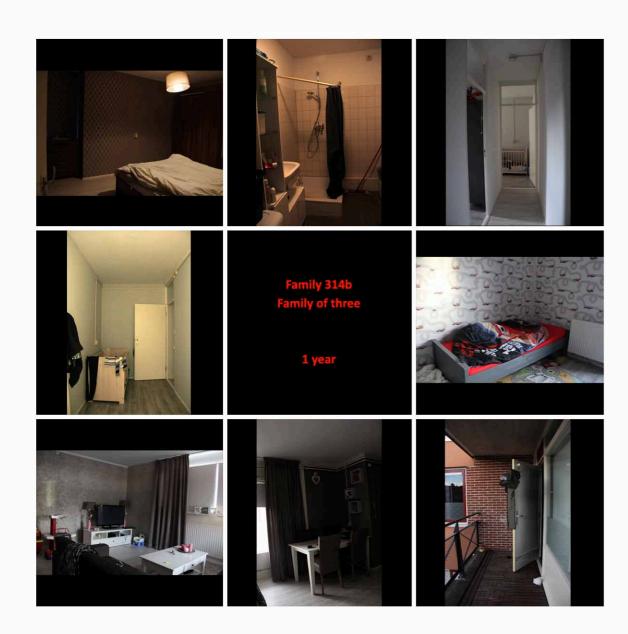
Support (lower floor): by the architect.

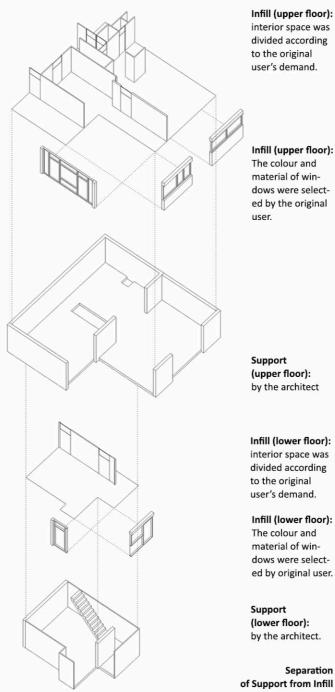
user's demand.

Separation of Support from Infill



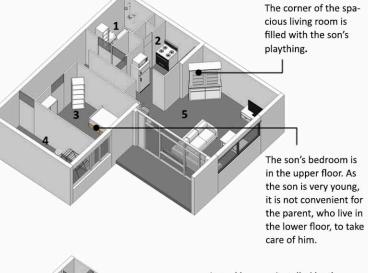
Location in the Community





Infill (upper floor): interior space was divided according to the original user's demand.

Infill (upper floor): The colour and material of windows were selected by the original



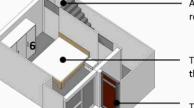
Support (upper floor): by the architect

Infill (lower floor): interior space was divided according to the original user's demand.

Infill (lower floor): The colour and material of windows were select-

Support (lower floor): by the architect.

Separation of Support from Infill



A steel bar was installed by the current users for the young child.

The parent's bedroom is located in the lower floor.

The entrance is located in the ground floor.

1. Bathroom 2. Kitchen

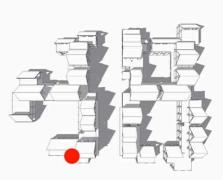
Living room

3. Second bedroom 6. Main bedroom

4. Storage

& Dining room

Current Living Situation



Location in the Community