

The image is a 3D architectural rendering of a modern building. The structure is composed of large, light-grey concrete blocks. Several windows are visible, each framed with a thick, light-colored wooden border. The building has a stepped, terraced appearance with multiple levels and open spaces. The background is a plain, light grey, suggesting a clear sky or a studio setting. The overall aesthetic is minimalist and industrial.

CO LIVING

A Spontaneous Community

CP

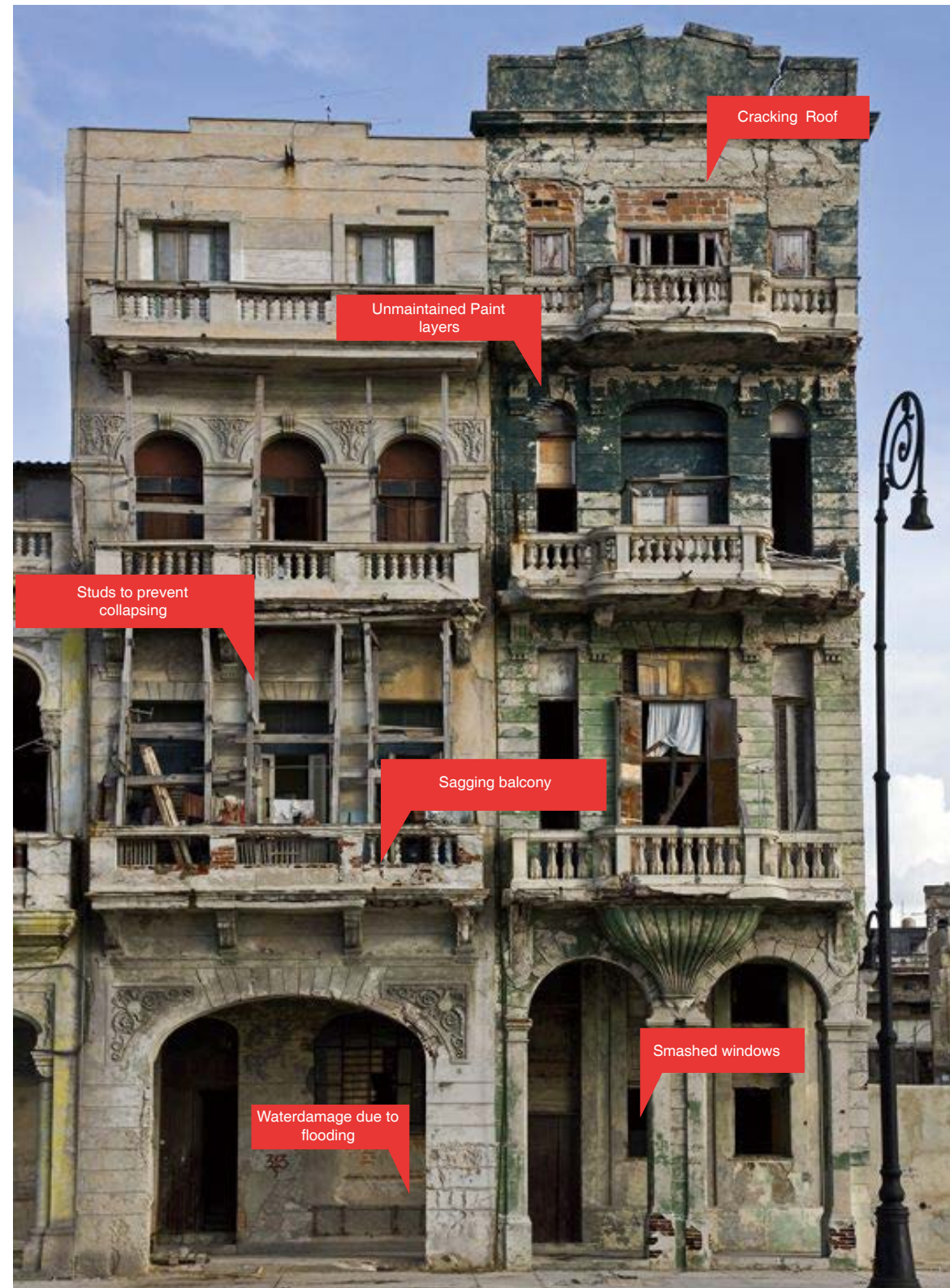
Complex Graduation Studio
Wei Huang
4513231



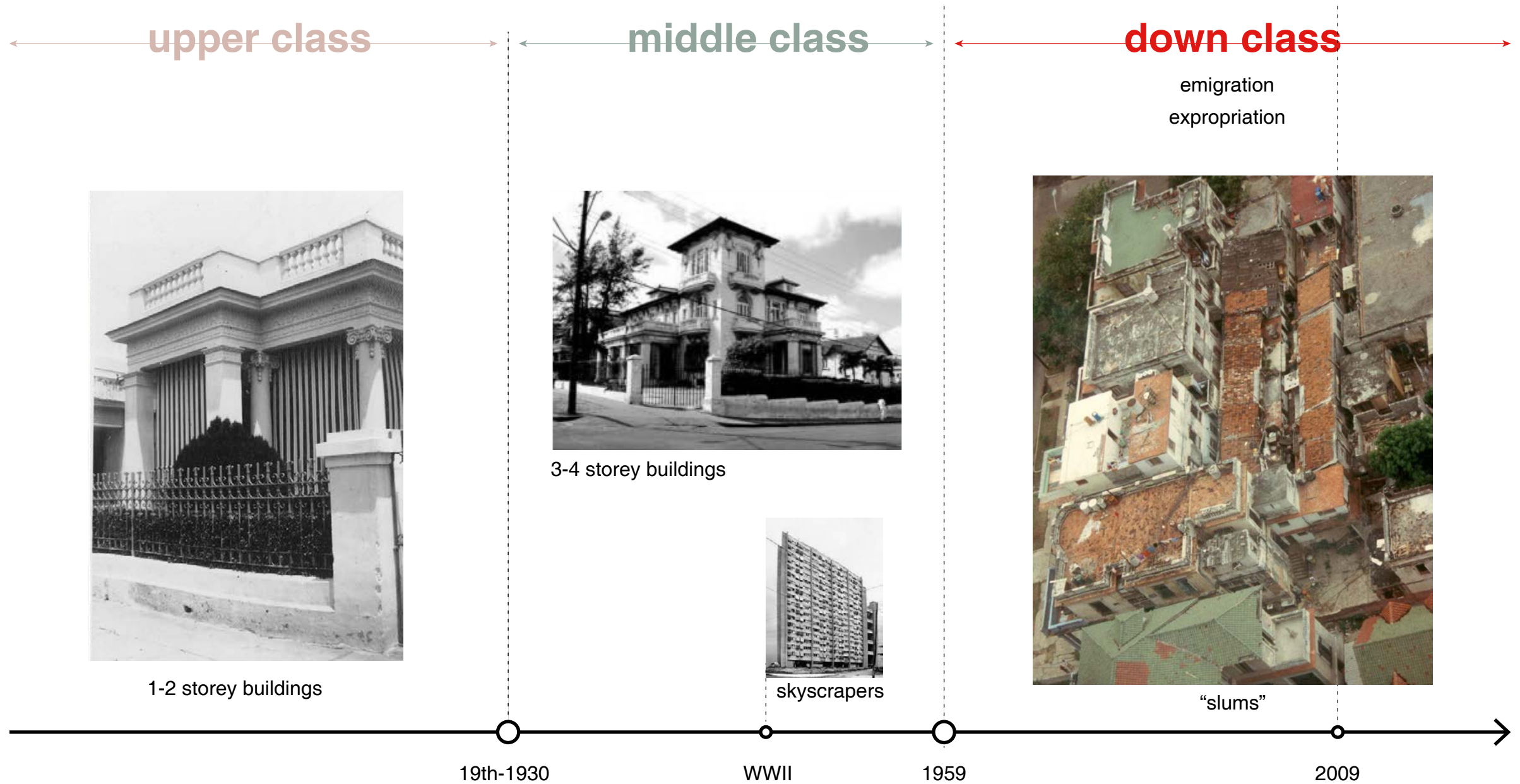


FACING THE REALITY

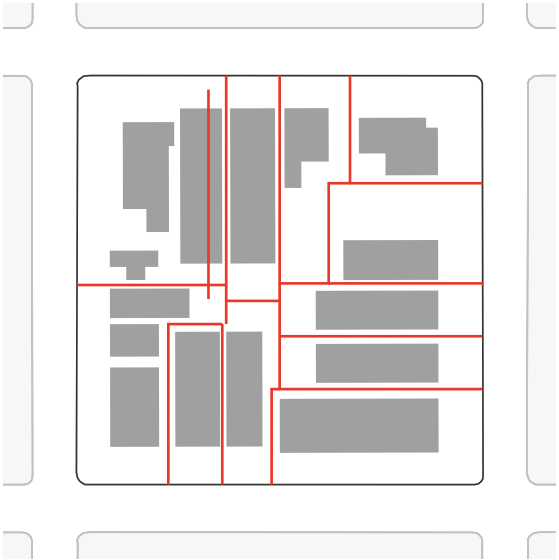
Vedado Living Condition



Vedado Living Condition Transformation



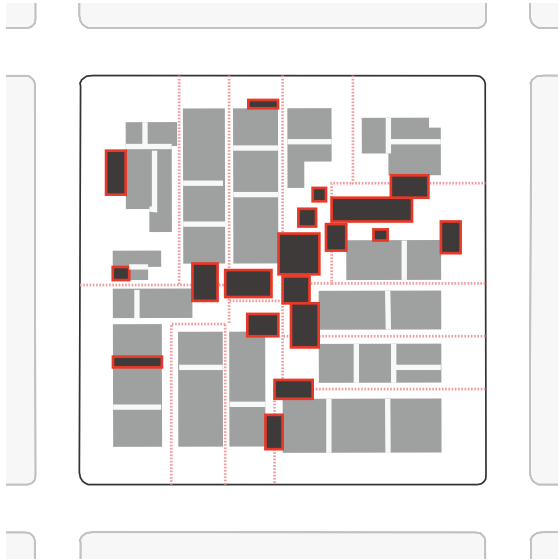
Vedado Living Condition Transformation



Before
Precise Boundary



After
Subdivision



After
Informal Expansion



Subdivision & Multifunctional Rooms



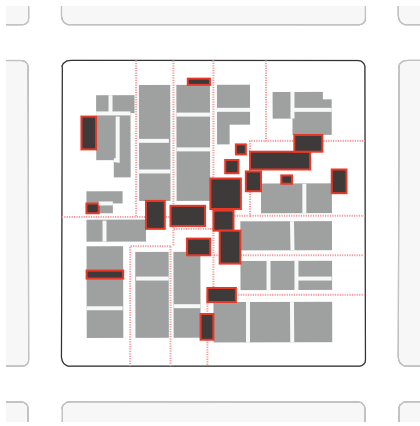
12 flats / building



3.2 persons / living room

Living room = kitchen = bedroom

Informal Expansion



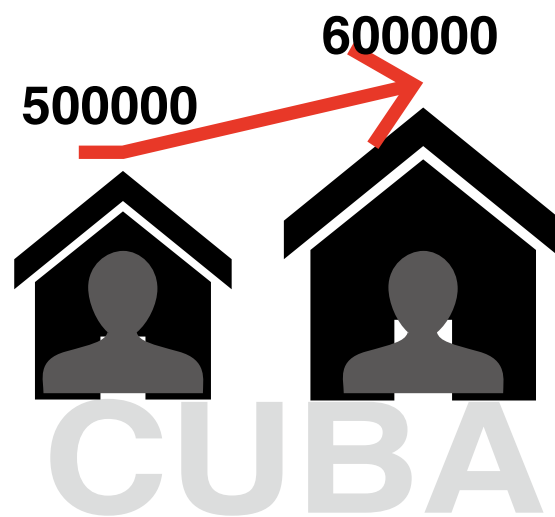
additional construction on the roof



conversion of inner courtyards

Housing shortage

Database



Increasing shortage of
houses



60,000 of 560000
dwellings were beyond
repair and should be
demolished.



The average cost of
building a house in
Cuba is \$8,000

Housing shortage

Unaffordable Housing Market

Casa en Venta en Plaza de la Revolución

Muebles de La Habana

Ayoyo Naranjo · Bayamo · Centro Habana · Ciego de Calizao · Ciego de Guaymas · Cienfuegos · Cienfuegos del Este · La Habana Vieja · La Lisa · Manzanillo · Playa · Plaza de la Revolución · Regla · San Miguel del Padrón

Tipos de inmuebles:

Apartmentos · Casas · Casas en la Playa · Casas independientes · Cuartos · Locales · Mansiones · Otros · Residencial para extranjeros

Terminos

Mostrando del 1 - 6 de 33 casas

Filtra tu búsqueda

Tipo de propiedad

Casa

Habitaciones

Cuádrupla

Baños

Cuádrupla

Precio

€

1000000

Opciones de búsqueda

Buscar ahora

Se vende casa en el Vedado, su oportunidad · Venta

La Habana · Plaza de la Revolución

Se vende un excelente inmueble en la planta alta de un biplanta ubicado en Sta. Vedado, con fácil acceso a Galerías Paseo, Malecón, Hotel Meliá Cohiba, centro, farmacia y casa de cambio.

Venta

Area: 215m² · 2 · 3

170 000 €

Se vende la biplanta completa · Venta

La Habana · Plaza de la Revolución

Se vende casa en la planta alta de un biplanta. Tiene sala, cocina, comedor, sala de estar, 4 dormitorios, 2 baños, pasillo exterior, terraza techada, piscina lateral sin techos, no.

Venta

Area: 170m² · 2 · 4

110 000 €

Se vende casa en el Vedado en 70000 · Venta

La Habana · Plaza de la Revolución

Se vende la planta alta de una casa biplanta de estilo colonial. Construida en el año 1940, con 100 metros cuadrados de área total.

Venta

Area: 10km² · 2 · 3

70 000 €

Se vende la planta baja de una biplanta · Venta

La Habana · Plaza de la Revolución

La casa está totalmente ventilada y mantiene su originalidad del año 1935 compuesta por: Jardín, sala, comedor, cocina, pasillos laterales, 5 habitaciones, 2 baños.

Venta

Area: 357m² · 2 · 5

120 000 €

Casa con colindancias en Plaza de la Revolución · 125 metros · Venta

La Habana · Plaza de la Revolución

Casa colonial compuesta por jardín, portaf, sala, 2 baños, 3 habitaciones, patio, esta muy ventilada.

Venta

Area: 125m² · 2 · 3

60 000 €

Se vende una casa en el Vedado · Venta

La Habana · Plaza de la Revolución

Se vende una casa con colindancias en la zona del Vedado cercana a Lince y con fácil acceso a cualquier zona de La Habana. Construida en el año 1972 aproximadamente.

Venta

Area: 295m² · 3 · 3

120 000 €

1 2 3 4 5 6 siguiente último

Nuestra misión · Búsquedas más populares · Empresa

average
price range

average salary of a
cuban:
30 cuc/month

However, Shortage of building materials

Low Productivity

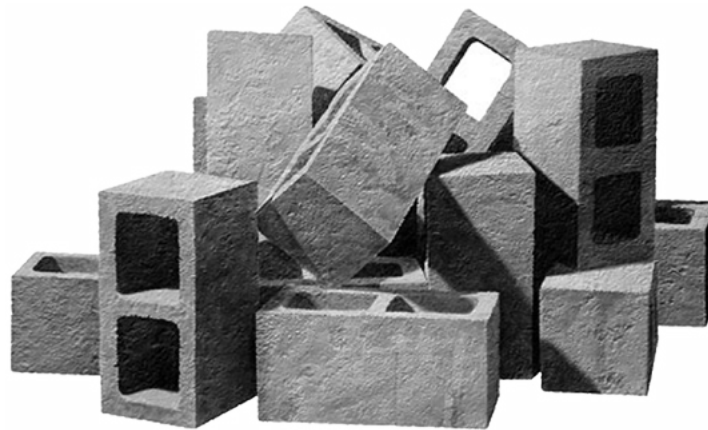


However, Shortage of building materials

Expensive price

0.2 CUC/block

30 CUC/month

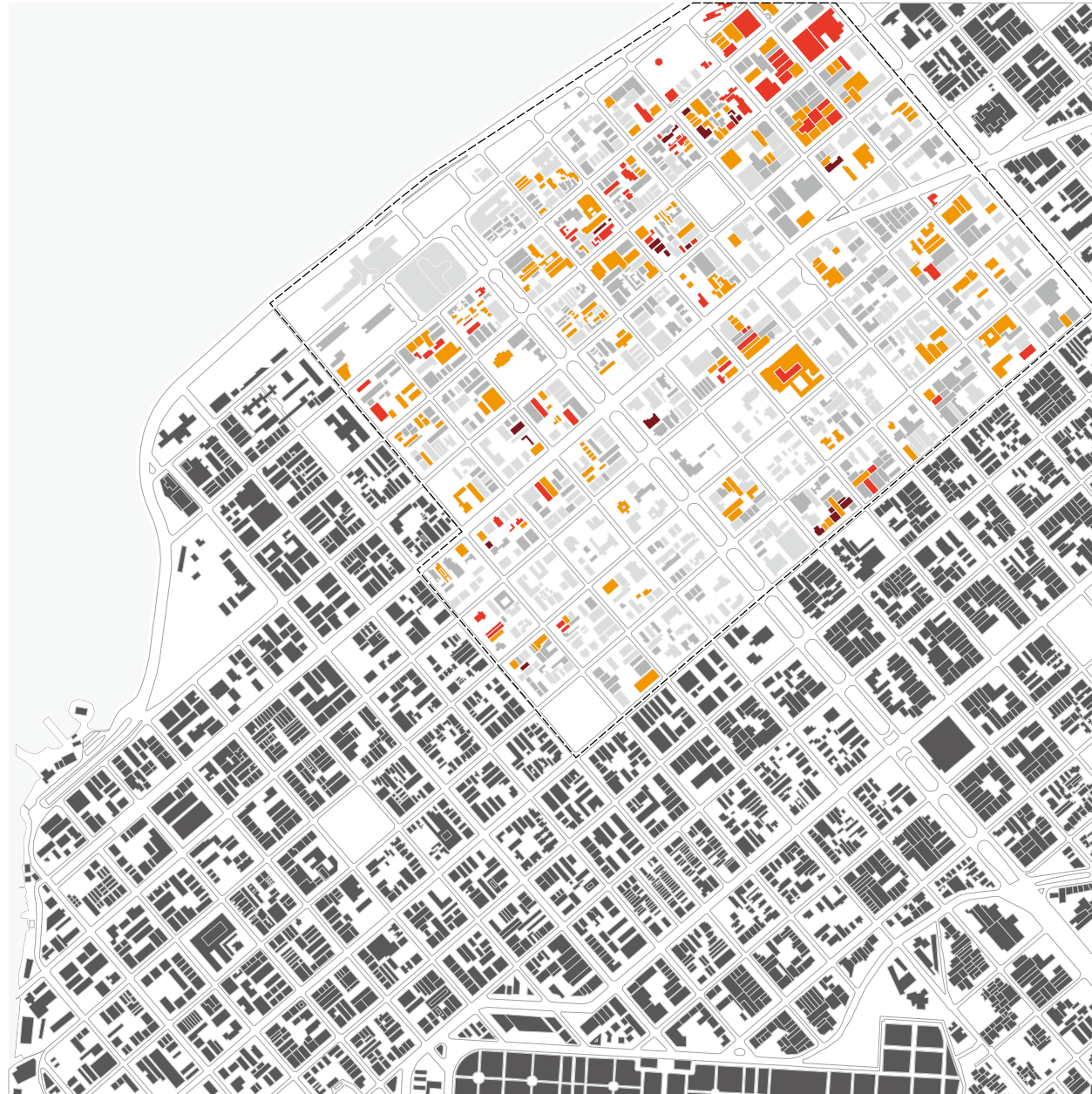


Collapse

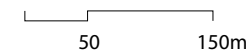
3.1 buildings/day in Havana



Collapse in Vedado



20%/308 in study area



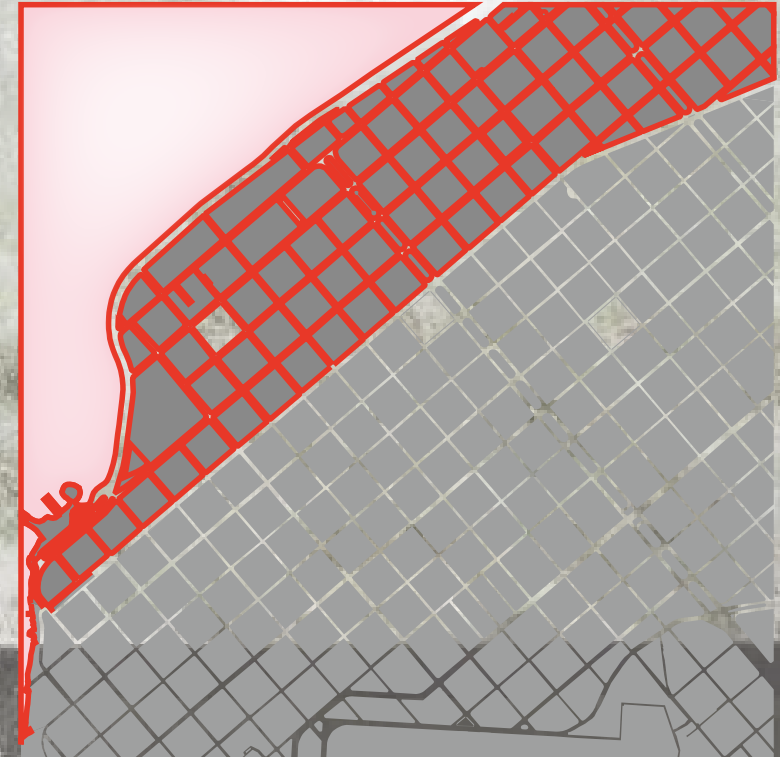
in very bad condition or really for demolish

Collapse in Vedado

Geographic condition



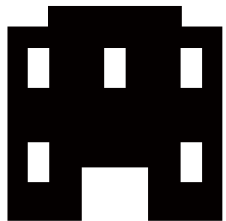
Blast of salt from the sea



frequent flooding up to Calle Linea



Bottom-up Recycling Building Materials



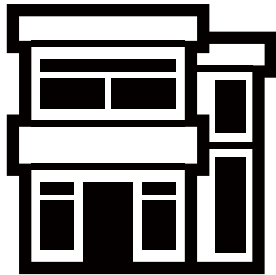
abandoned buidling



materials



stealing



reuse





What Can Be Recycled in Havana?

What Can Be Recycled in Havana

Main Building Materials

Table 6. Houses and Apartments Occupied by Permanent Residents by Period of Construction and Predominant Wall Material,^a 2002 Census of Cub

	All periods	<1920	1920–1933	1934–1945	1946–1958	1959–1970	1971–1981	1982–1989	1990–2002	Don'tKnow
Percent distribution										
All	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Concrete	75.6	78.9	78.9	84.0	86.0	75.1	76.1	78.4	67.6	72.1
Wood	19.2	19.5	18.9	15.3	12.3	19.9	18.3	16.1	24.3	22.2
Palm bark	3.4	0.4	0.9	1.1	1.3	3.8	4.8	4.5	6.3	3.9
Adobe	1.2	1.2	0.4	0.5	0.3	1.3	1.0	1.0	1.9	1.6

Source: Oficina Nacional de Estadísticas, 2005. *Censo de Población y Viviendas—Cuba 2002*. La Habana, Tabla V.7.

a. Concrete stands for “paredes de hormigón, mampostería”; Wood for “paredes de madera”; Palm bark for “paredes de yagua o tabla de palma”; and Adobe for “paredes de adobe o embarre u otro material.”



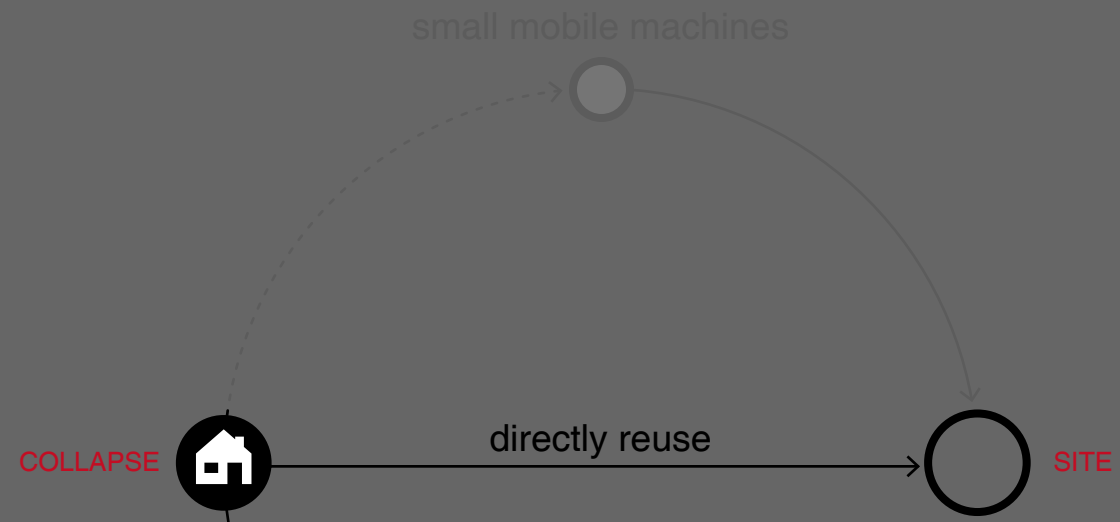
Concrete



Wood

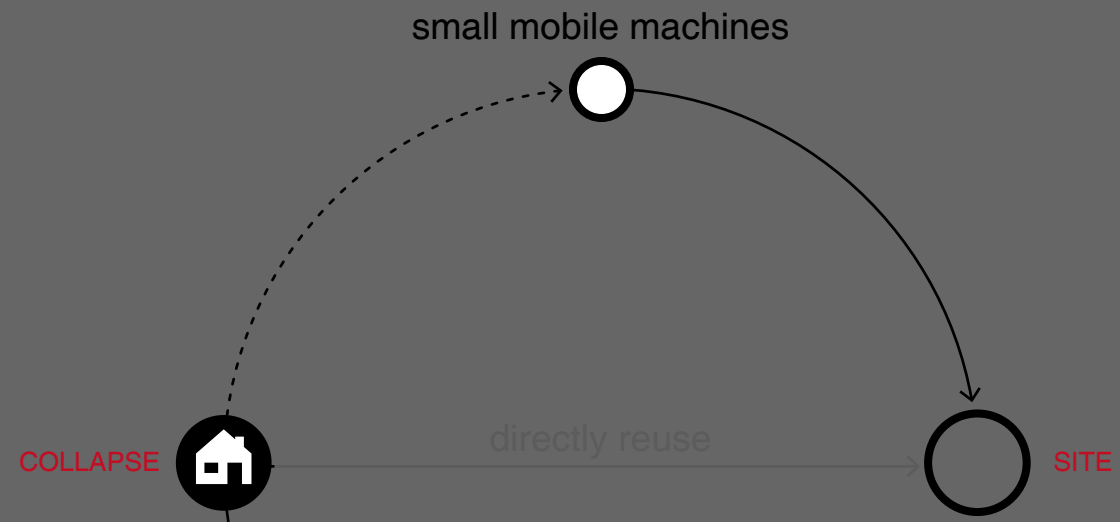
Two On Site Recycling Methods

1. Directly Reuse



Two On Site Recycling Methods

2. Mobile Machines



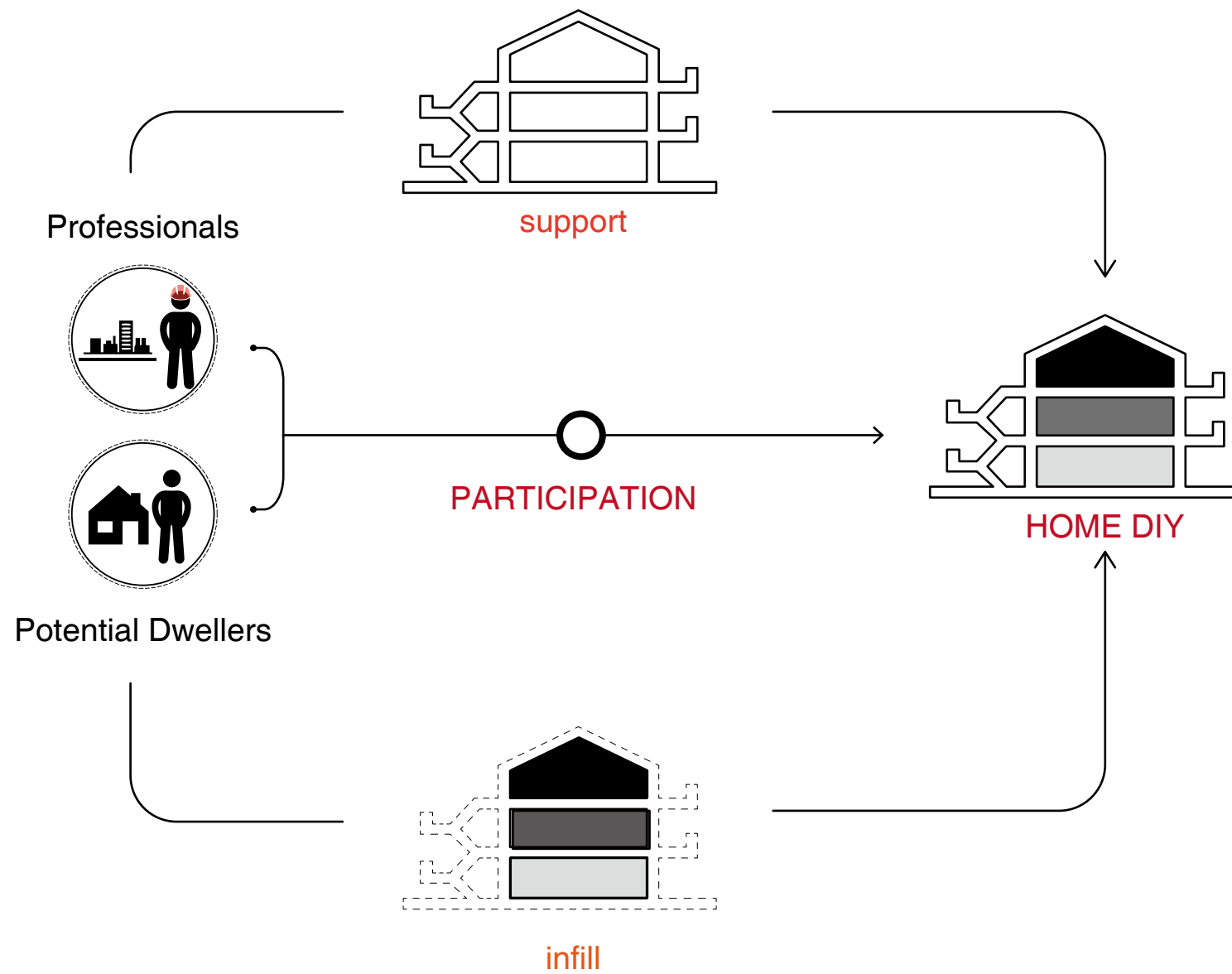
Reference of Onsite Smallscale Recycling

Low Tech/Informal Way after earthquake in China



Strategy

Make it easier for Cuban to get a home



[with informal way of recycling materials]

What kind of life should a home offer?

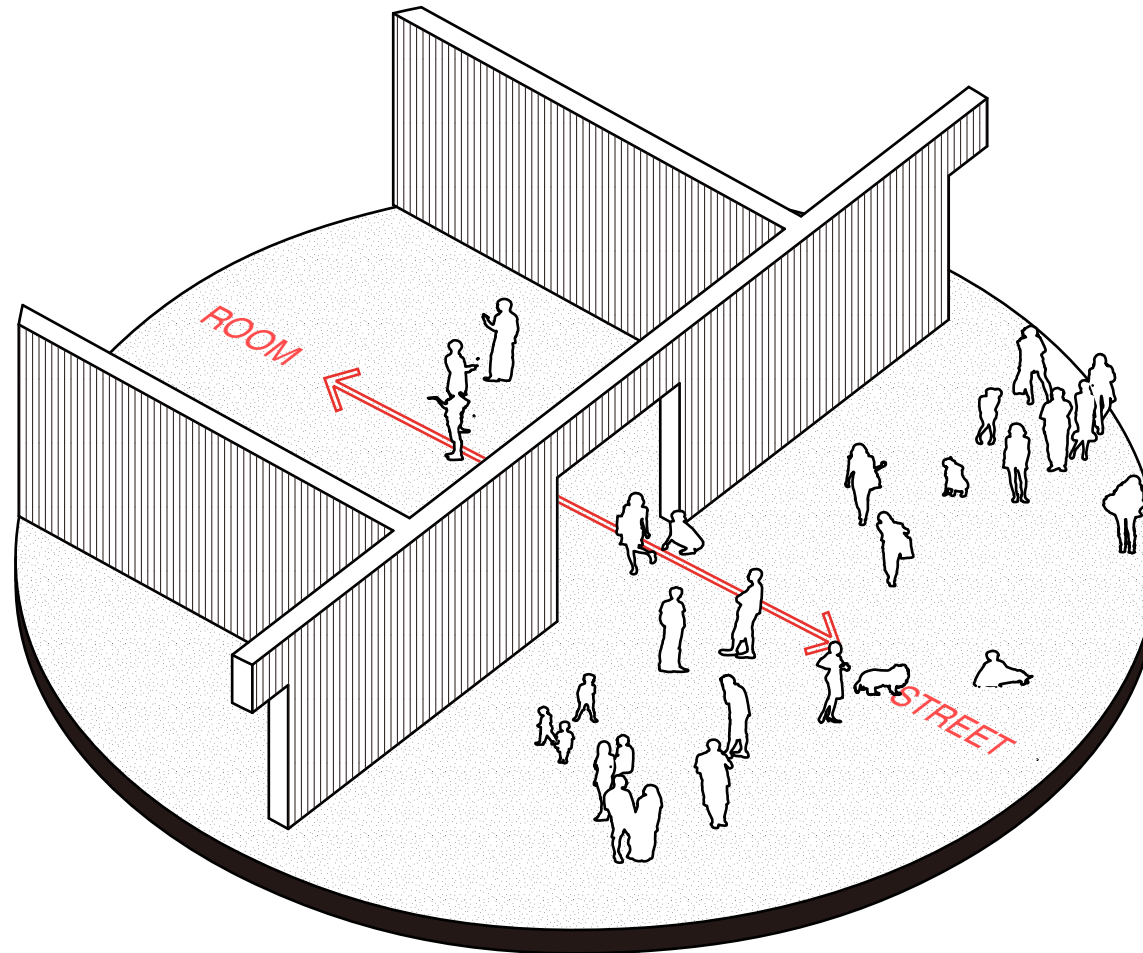
Everyday life in Central Havana



Everyday life in Central Havana

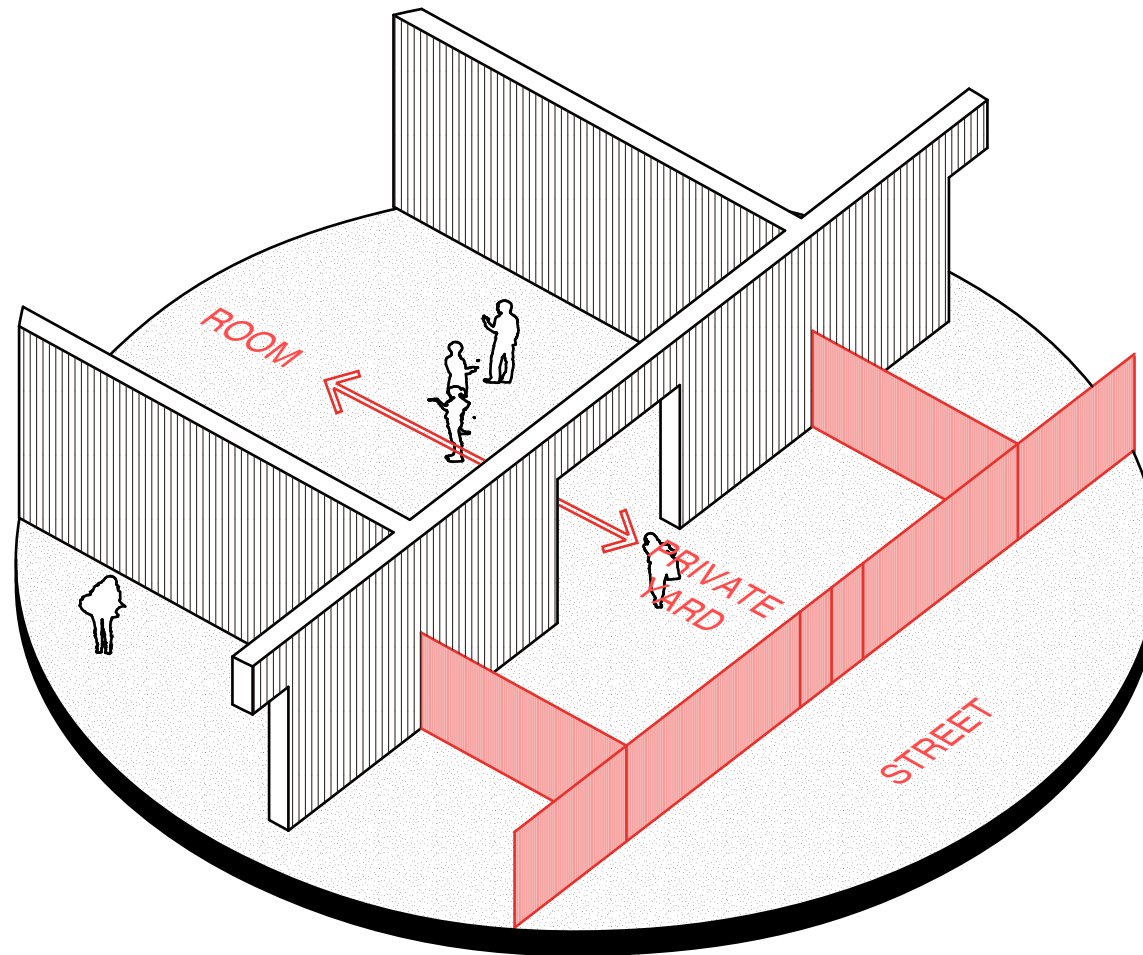


Street Typology in Central Havana



People do expand their daily life to the public space.

Street Typology in Vedado, Havana



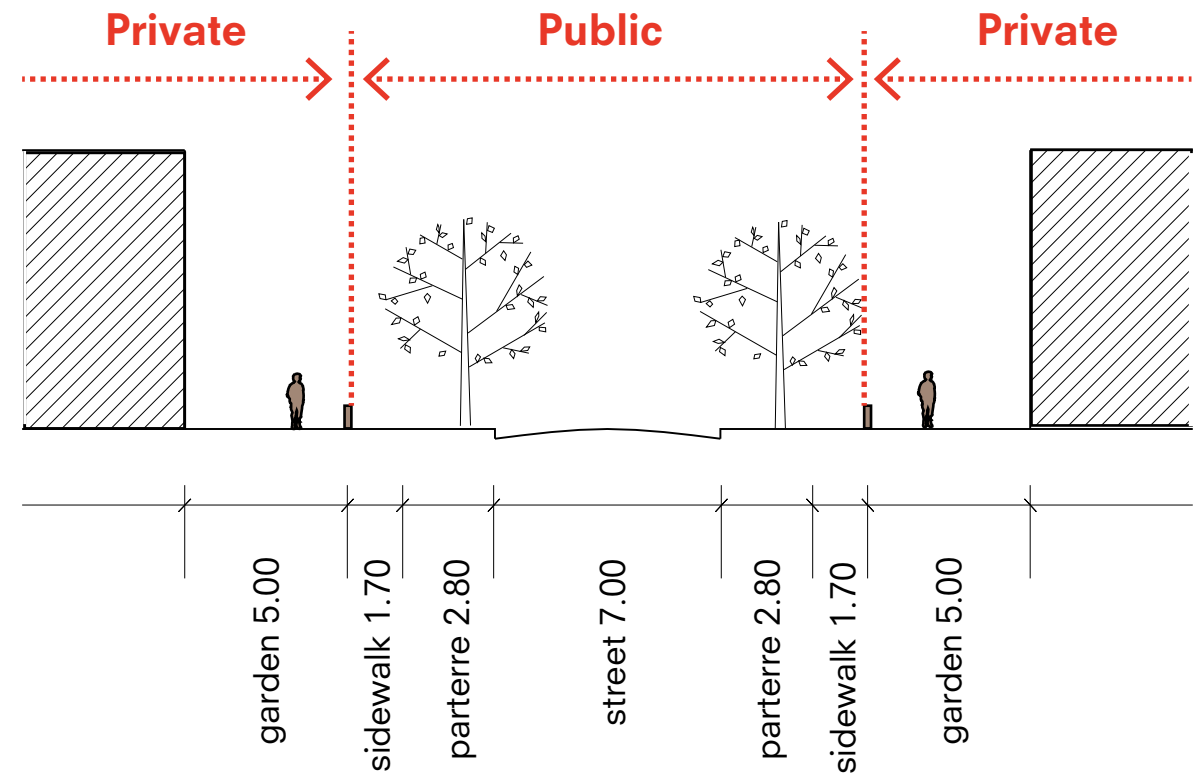
Precise fences strictly isolate the private space from the street.



Vedado - Fenced City

Vedado - Fenced City

Street Typology



Vedado - Fenced City

Urban Regulation

8.5 Tabla de intensidades

		ZONAS DE INTENSIDAD URBANA				OBSERVACIONES	SUB ÍNDICES
							
		Z - 1 BAJA	Z - 2 MEDIA	Z - 3 ALTA	Z - 4 BORDE COSTERO		
REGULACIONES GENERALES Y ESPECÍFICAS	TIPO Y ELEMENTOS DE FACHADA						
	Cercados Fencing	Obligatorio*	Obligatorio*	Permisible	Prohibido*	*Restringido en nodos. 1, 20 m máximo en frente y laterales hasta la segunda línea de fachada. 2, 10 m máximo en laterales y fondo a partir de la segunda línea de fachada y fondo.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Alturas máximas	3 plantas* 11, 00 m	8 plantas* 26, 00 m	25 plantas* 77, 00 m	2 plantas*	*Mayores por excepción.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Puntales mínimos	4, 50 m PB* 2, 70 - 3, 00 m otras plantas	4, 50 m PB* 2, 70 - 3, 00 m otras plantas	4, 50 m PB* 2, 70 - 3, 00 m otras plantas	4, 50 m PB* 2, 70 - 3, 00 m otras plantas	*Se respetarán como mínimo 5.00 m en frentes de plazas, paseos, avenidas y vías principales.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Basamentos	Prohibido	Obligatorio*	Obligatorio*	Prohibido	*Serán de tres plantas, de 12, 00 m máximo, cuando se trate de edificios altos.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Sótanos y semisótanos	Permisible*	Permisible*	Permisible*	Restringido	*No habitables, restringido en zona de penetración del mar.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Salientes	Permisible*	Permisible*	Permisible*	Permisible*	*Prohibido fuera de las dimensiones especificadas.	3.5, 4.1.5 4.2.5, 4.3.5 4.4.5
	Balcones, logias y terrazas	Preferente*	Preferente*	Preferente*	Preferente	*Sobrevolando hasta 1/3 del área de jardín.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Marquesinas y toldos	Permisible	Permisible	Permisible	Permisible	La marquesina ocupará un 30% en la franja de jardín. En el área del 15% de superficie descubierta en voladizo hasta 0. 20 m del borde del contén. Los toldos de estructura o cubierta ligera serán de 2. 00 m de ancho.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Vistas Luces	Restringido	Restringido	Restringido	Restringido	Vistas rectas sólo a 2. 00 m del lindero. Luces según sus normativas.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Medianería	Prohibido*	Prohibido*	Prohibido*	Prohibido *	*Permisibles sólo las existentes.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5

Categorías de uso:

- . Prohibido
- . Restringido
- . Permisible
- . Preferente
- . Obligatorio

Vedado - Fenced City

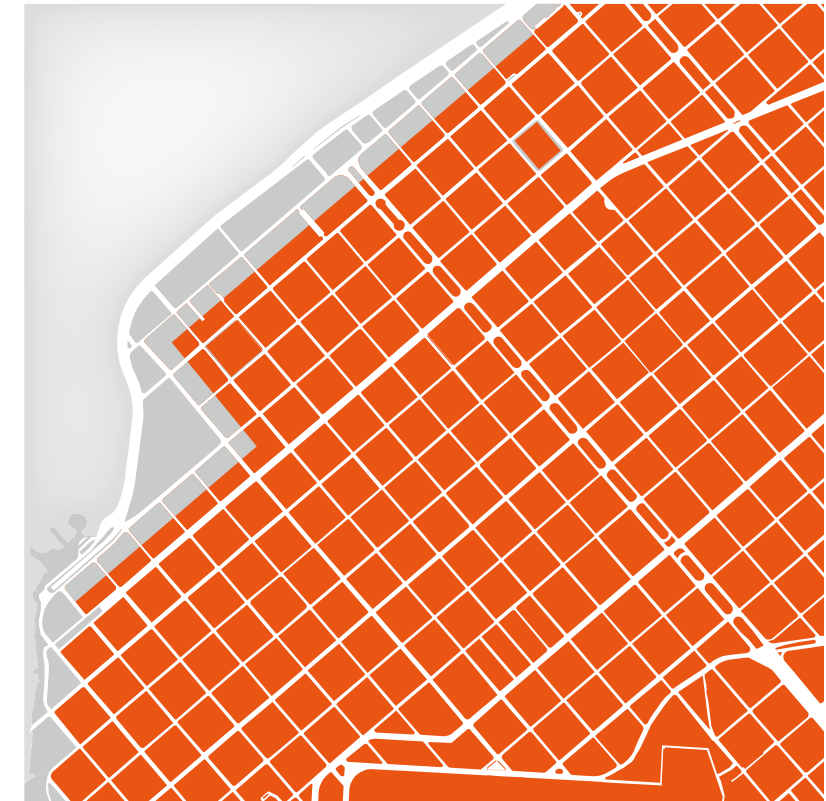
Urban Regulation

8.5 Tabla de intensidades

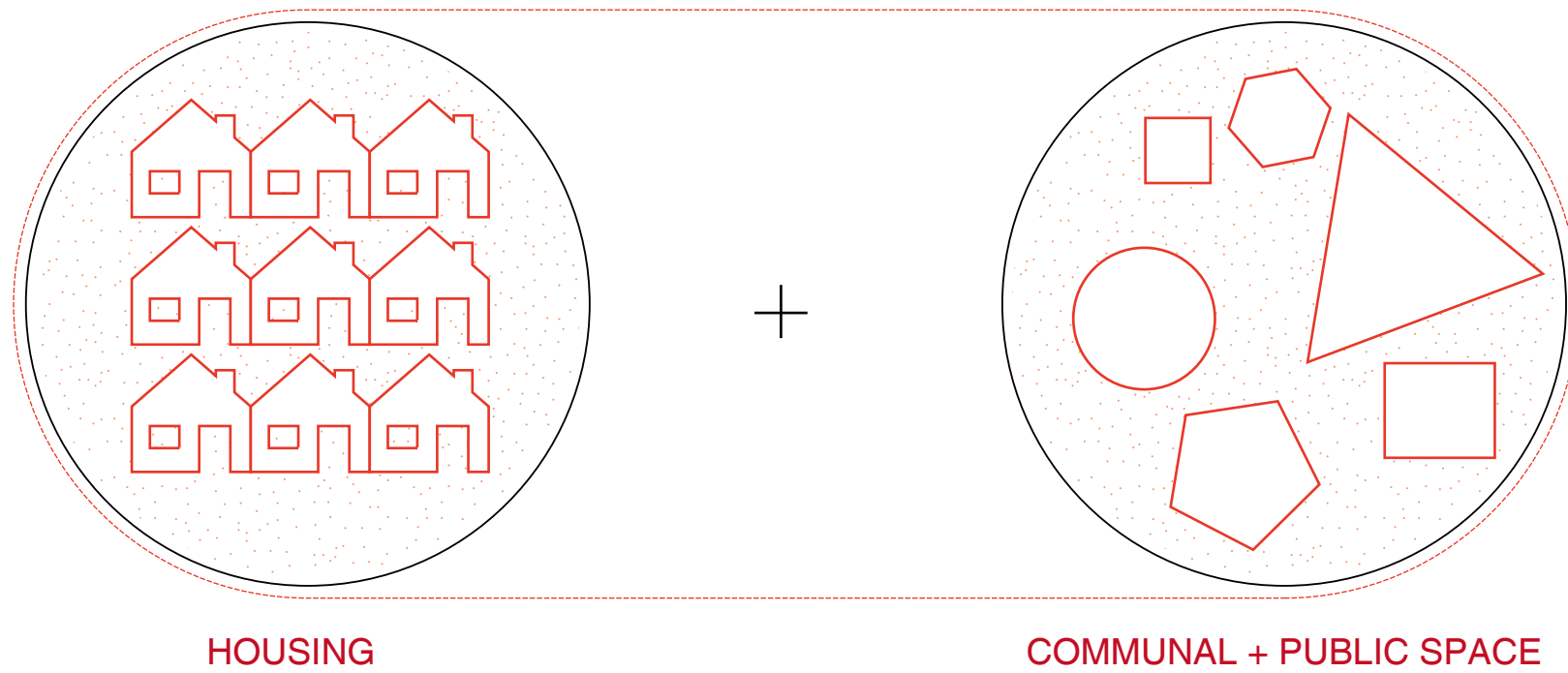
REGULACIONES GENERALES Y ESPECÍFICAS		ZONAS DE INTENSIDAD URBANA				OBSERVACIONES	SUB ÍNDICES
		Z - 1 BAJA	Z - 2 MEDIA	Z - 3 ALTA	Z - 4 BORDE COSTERO		
TIPO Y ELEMENTOS DE FACHADA							
CONFIGURACIÓN	Cercados Fencing	Obligatorio*	Obligatorio*	Permisible	Prohibido*	*Restringido en nodos. 1, 20 m máximo en frente y laterales hasta la segunda línea de fachada. 2, 10 m máximo en laterales y fondo a partir de la segunda línea de fachada y fondo.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Alturas máximas	3 plantas* 11, 00 m	8 plantas* 26, 00 m	25 plantas* 77, 00 m	2 plantas*	*Mayores por excepción.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
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	Basamentos	Prohibido	Obligatorio*	Obligatorio*	Prohibido	*Serán de tres plantas, de 12, 00 m máximo, cuando se trate de edificios altos.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Sótanos y semisótanos	Permisible*	Permisible*	Permisible*	Restringido	*No habitables, restringido en zona de penetración del mar.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
	Salientes	Permisible*	Permisible	Permisible*	Permisible*	*Prohibido fuera de las dimensiones especificadas.	3.5, 4.1.5 4.2.5, 4.3.5 4.4.5
	Balcones, logias y terrazas	Preferente*	Preferente*	Preferente*	Preferente	*Sobrevolando hasta 1/3 del área de jardín.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5
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	Medianería	Prohibido*	Prohibido*	Prohibido*	Prohibido *	*Permisibles sólo las existentes.	3.5, 4.1.6 4.2.5, 4.3.5 4.4.5

Categorías de uso:

- Prohibido
- Restringido
- Permisible
- Preferente
- Obligatorio



Strategy



Domestic Space



Privacy at home!
Better living conditions!
No chaos!



Public Space

Entertainment

What if I can play in my courtyard, not on the road!



A nice place to share knowledge would be perfect!



Public Space

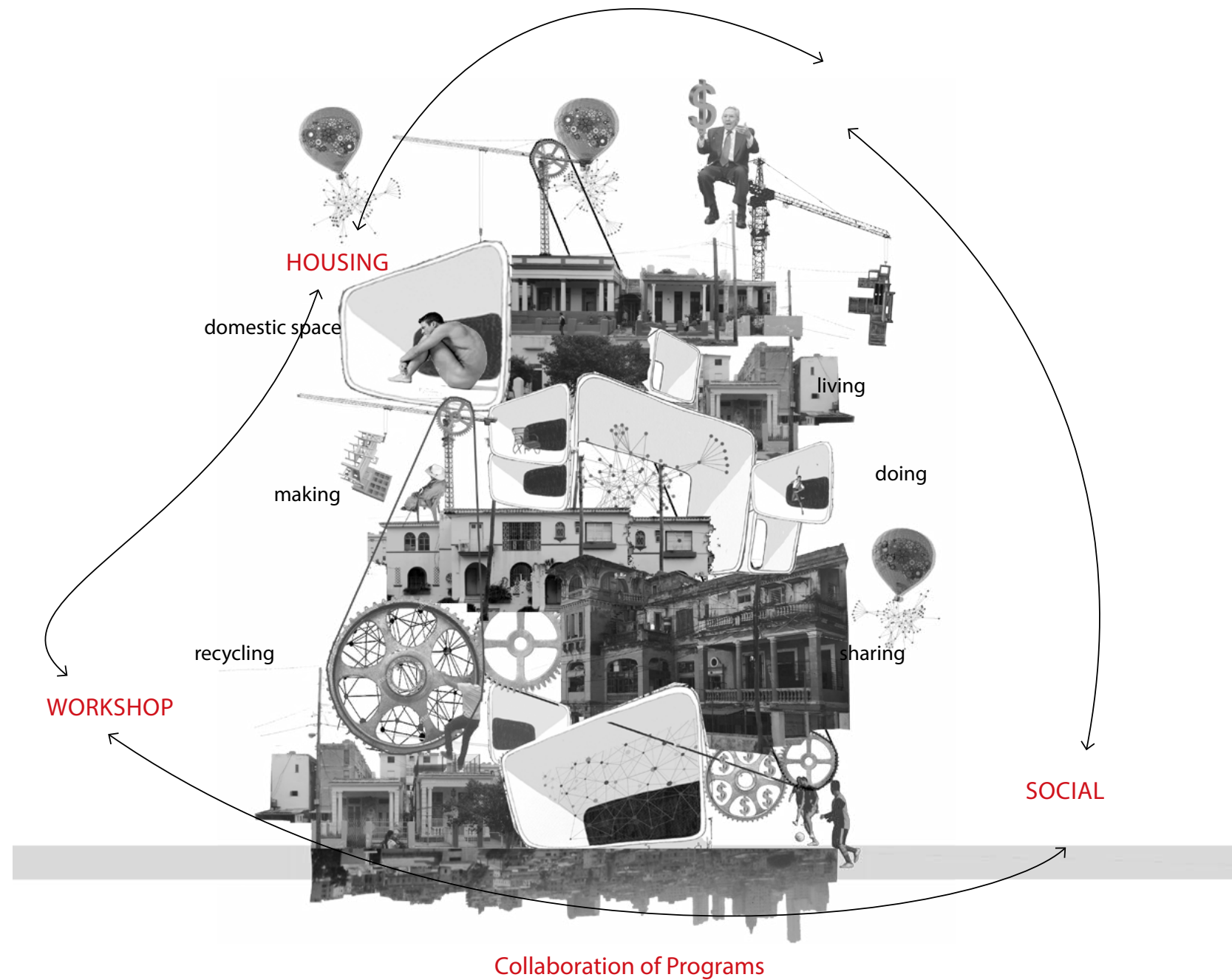
Service



In a professional woodworkshop,
I can do better!



Mode of Living

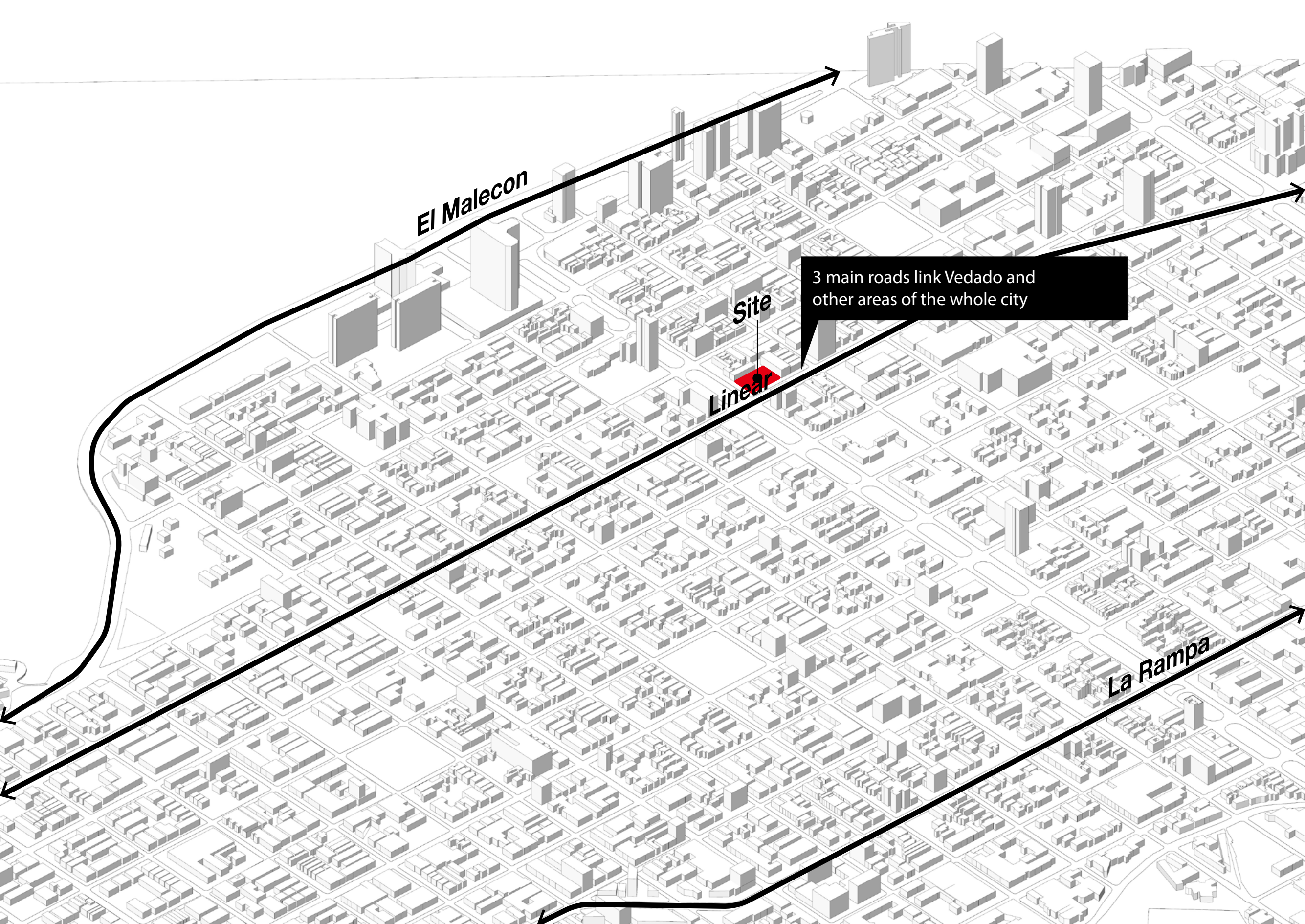




SITE

VEDADO

VEJA



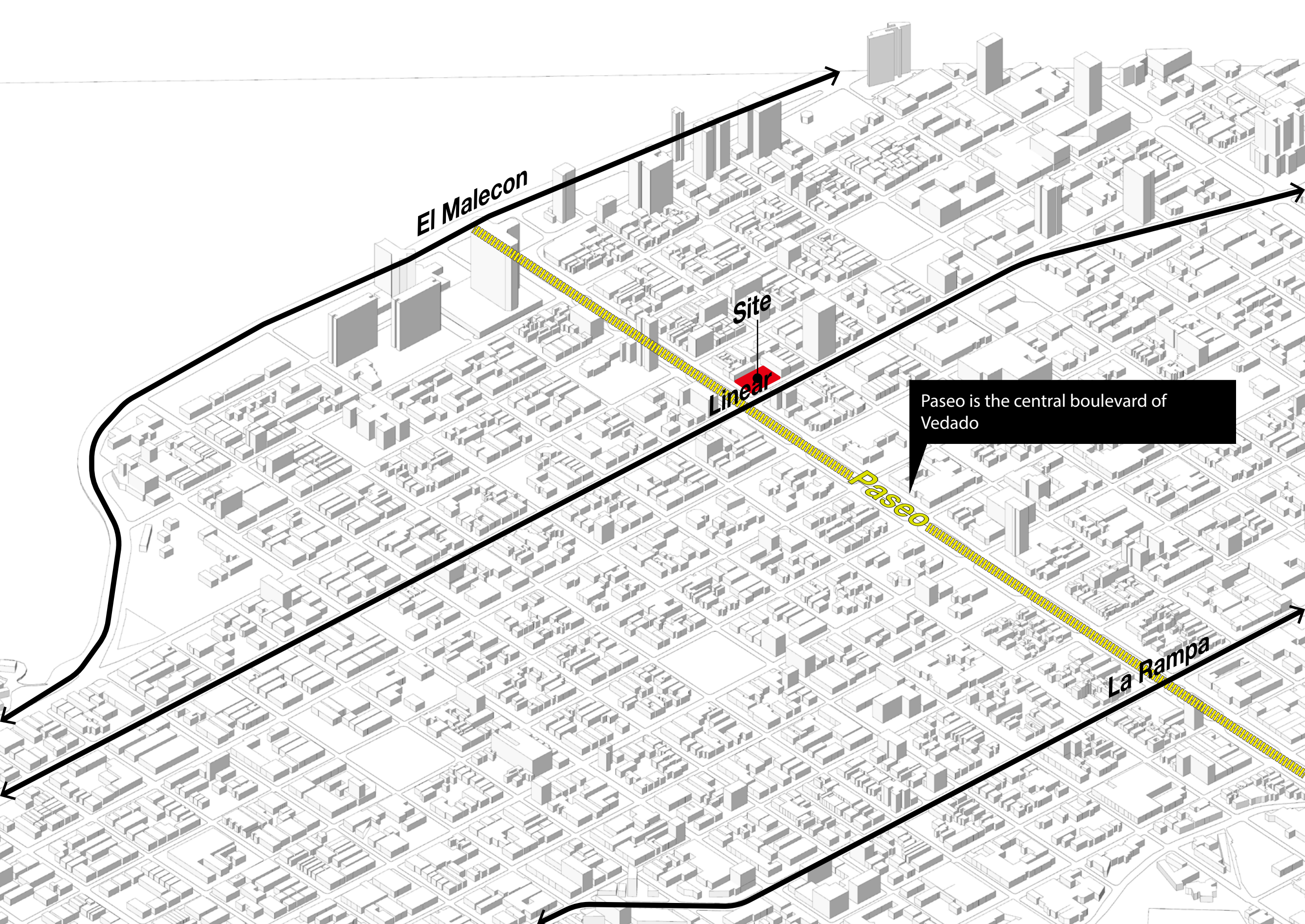
El Malecon

site

Linear

3 main roads link Vedado and other areas of the whole city

La Rampa



El Malecon

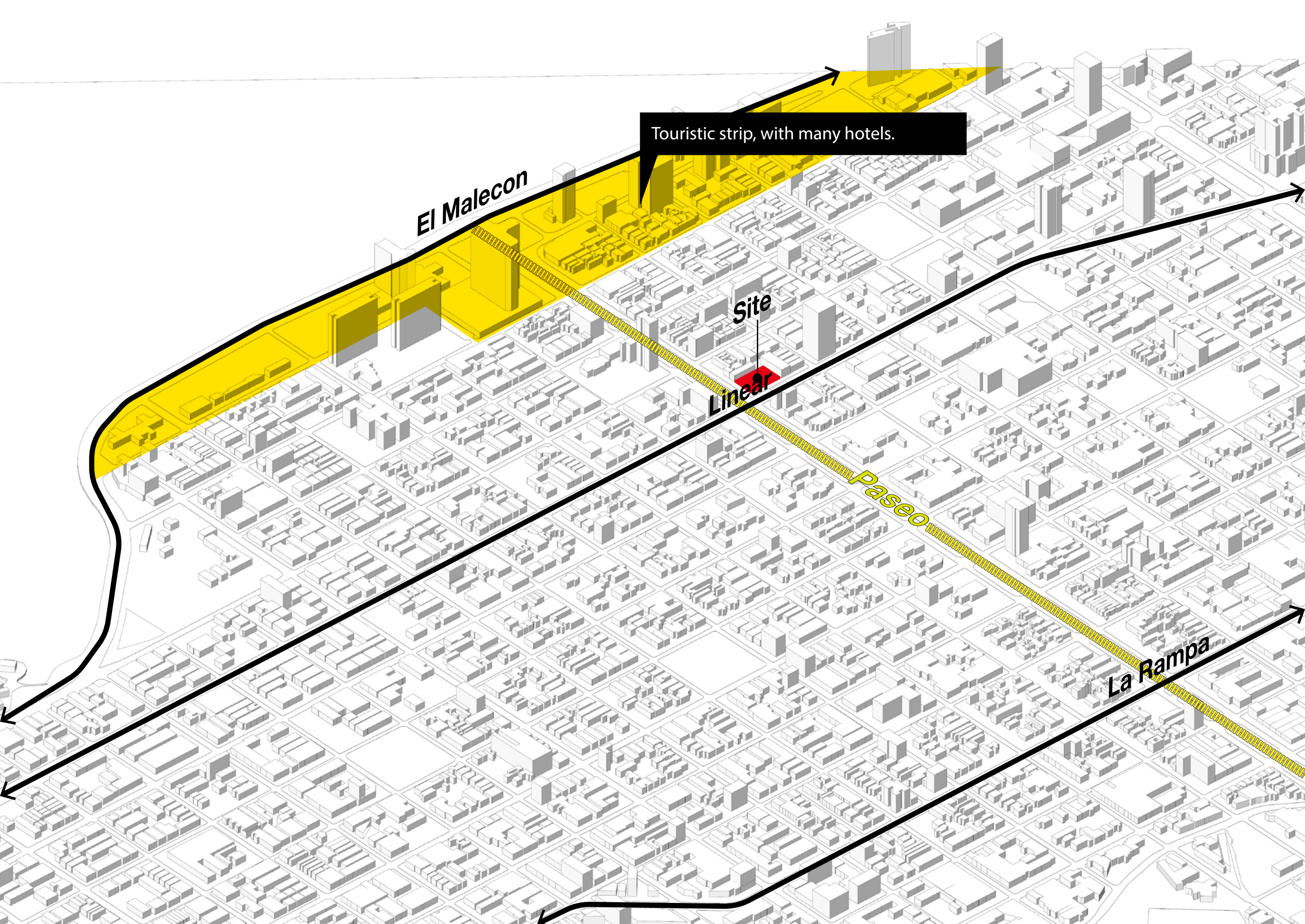
Site

Linear

Paseo is the central boulevard of Vedado

Paseo

La Rampa



Touristic strip, with many hotels.

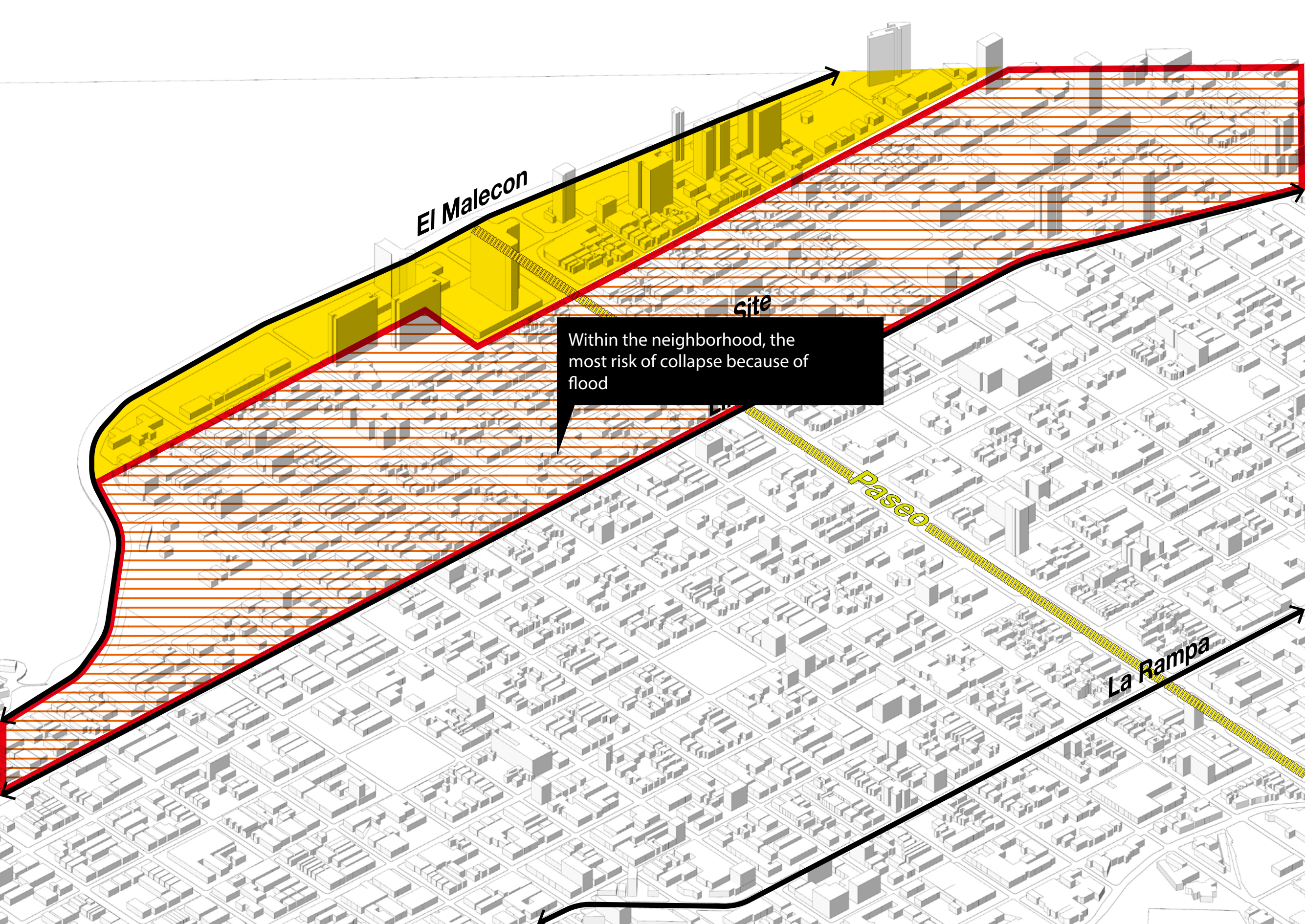
El Malecon

Site

Linear

Paseo

La Rampa



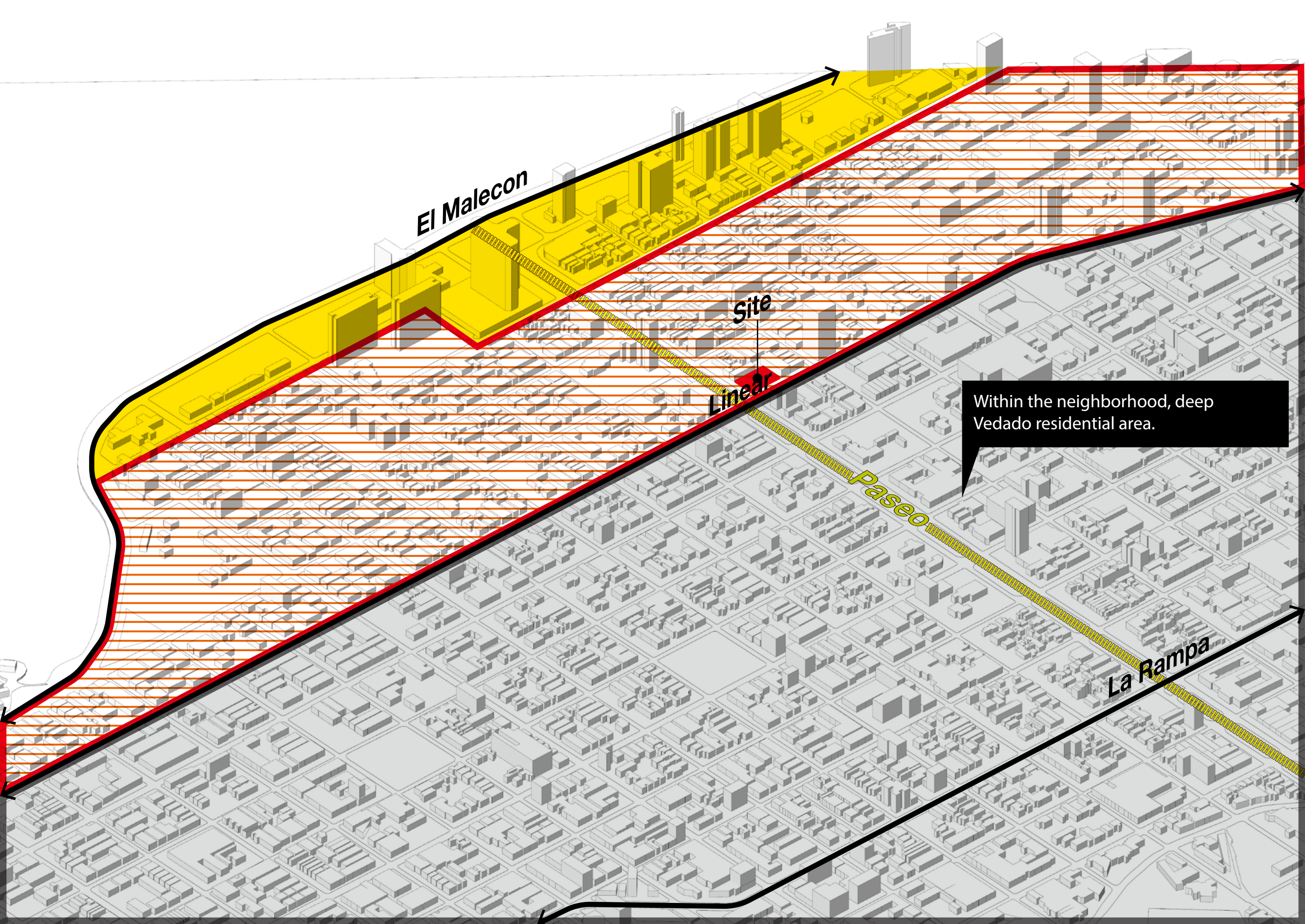
El Malecon

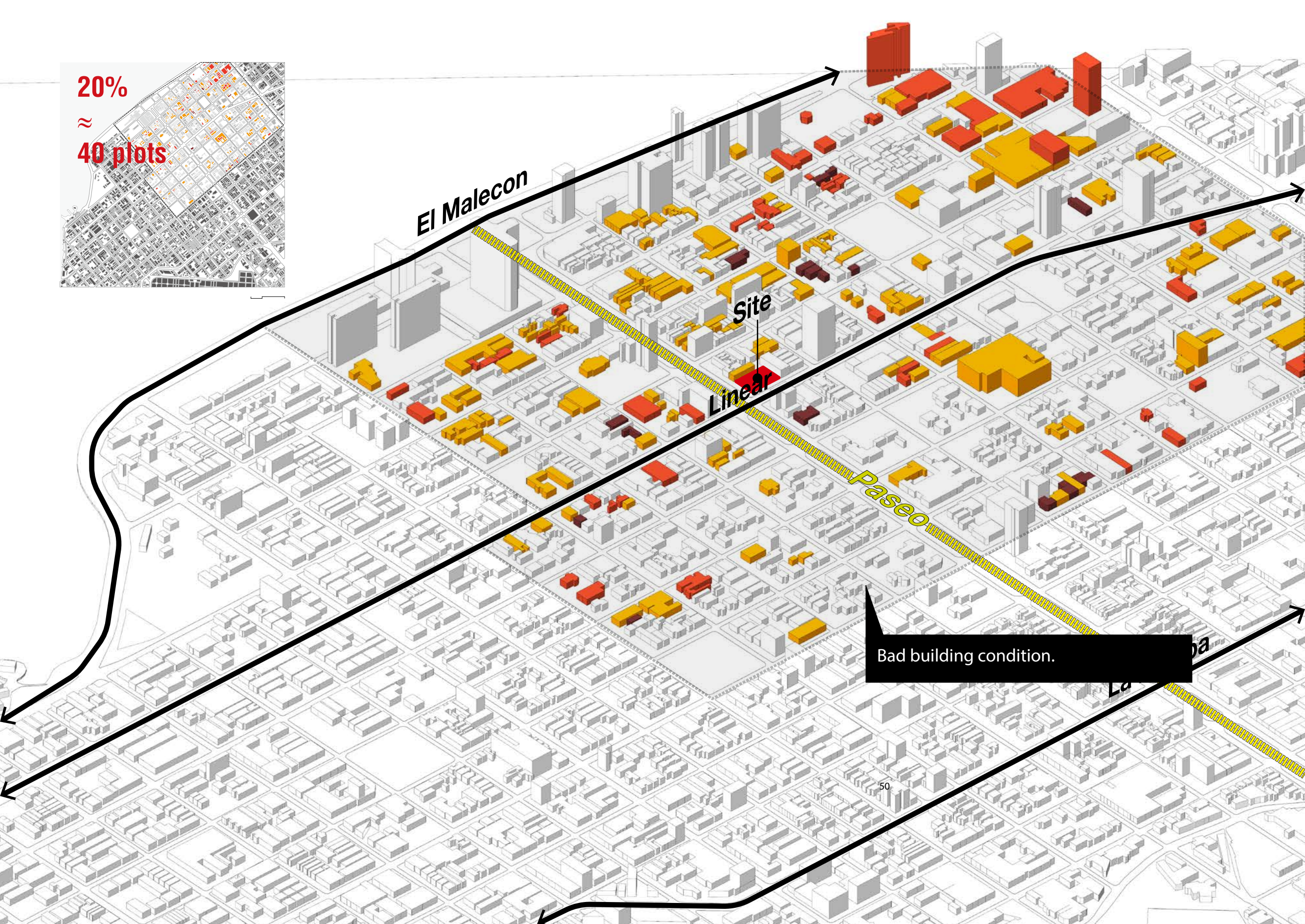
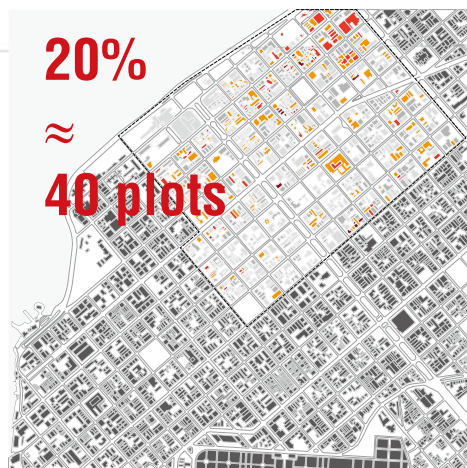
site

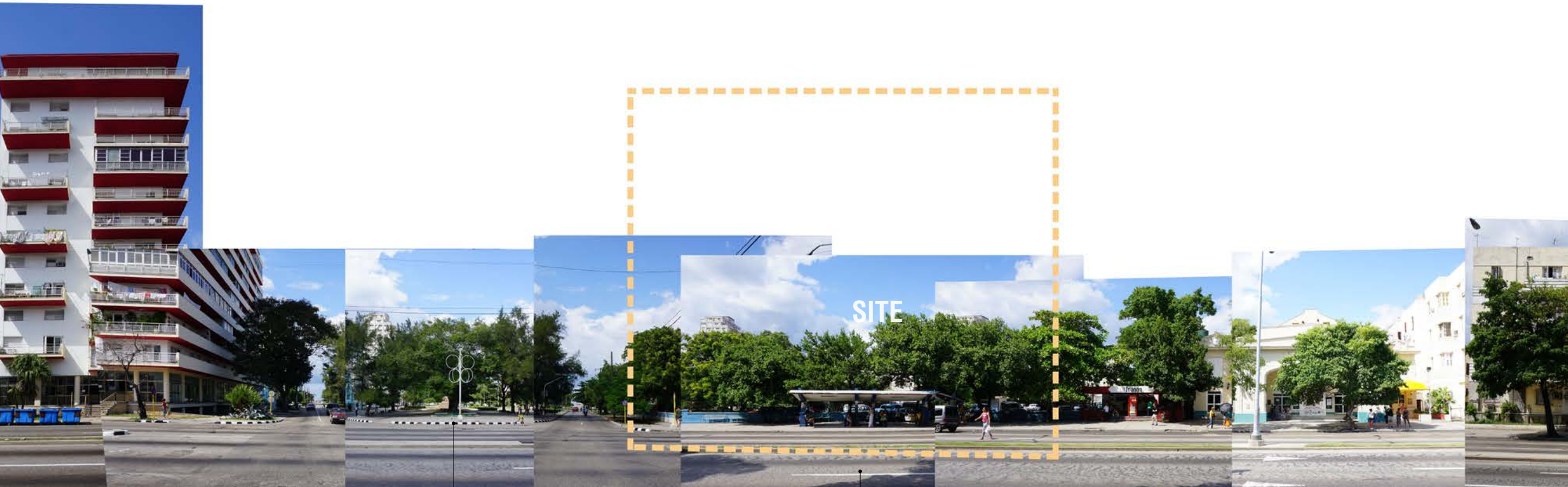
Within the neighborhood, the most risk of collapse because of flood

Paseo

La Rampa

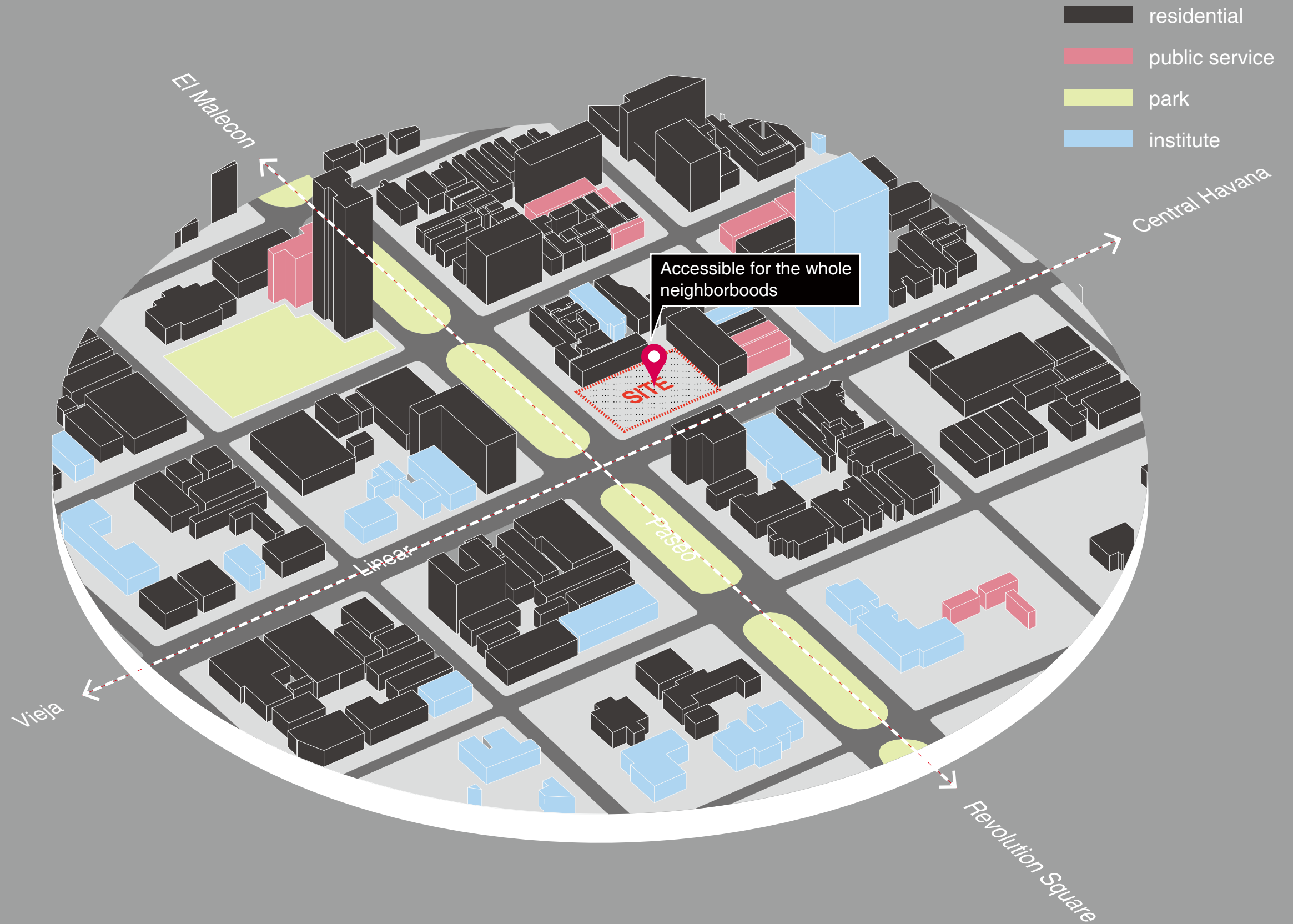






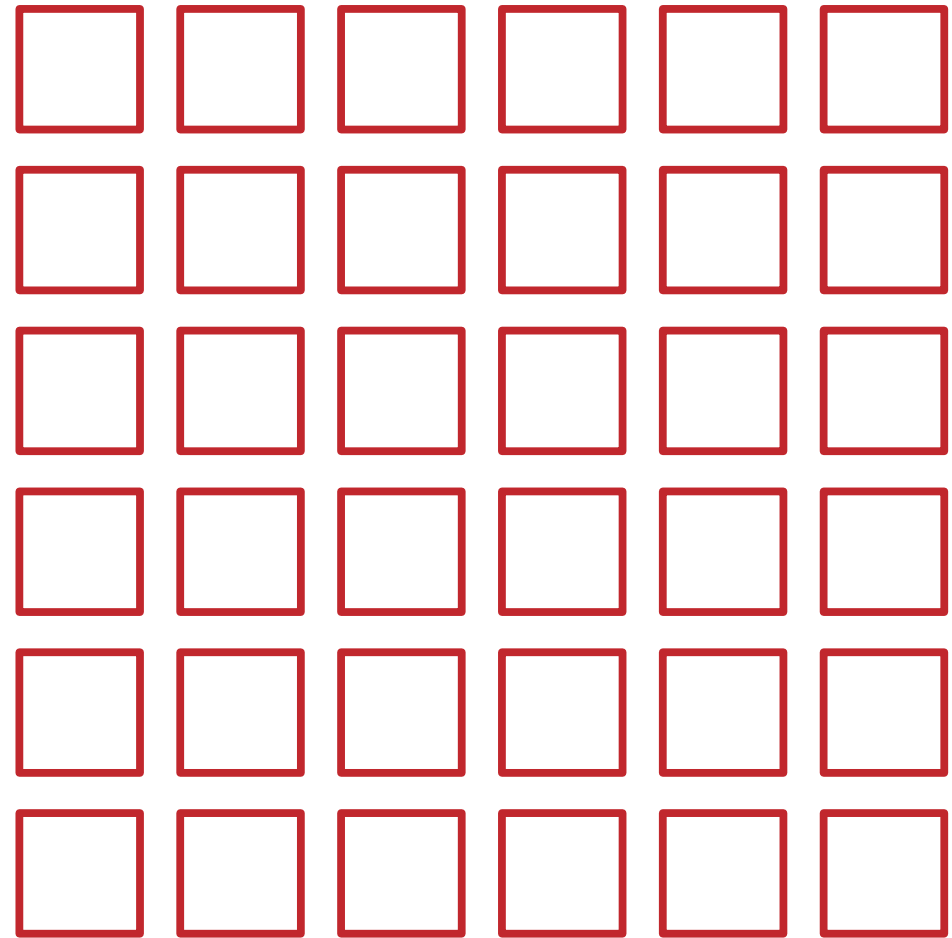
Paseo Ave

Linear

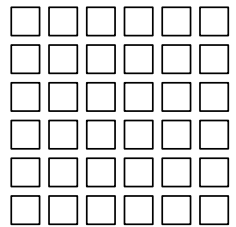
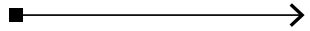




PROJECT

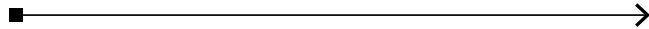


A RATIONAL AND EFFICIENT GRID

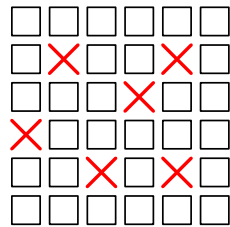


grid of unit

OPPERATION METHOD

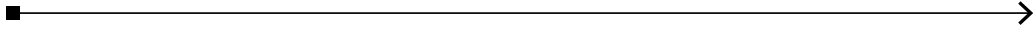


grid of unit

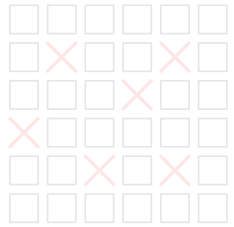


lighting

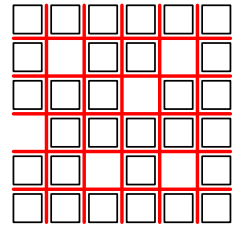
OPERATION METHOD



grid of unit

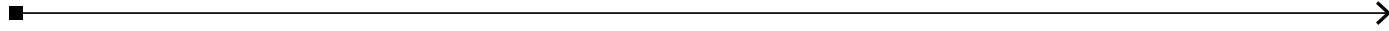


lighting

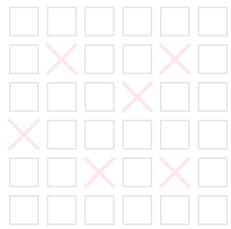


connection on
the upper floors

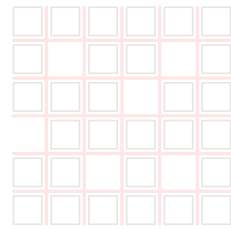
OPERATION METHOD



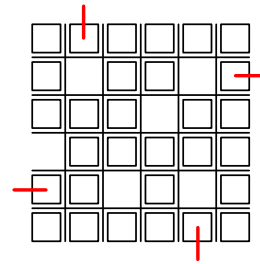
grid of unit



lighting

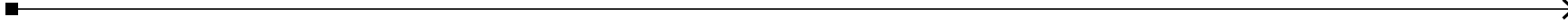
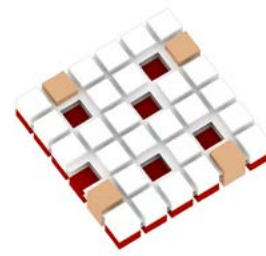


connection on
the upper floors

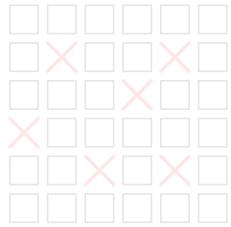


vertical access

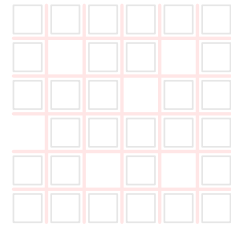
OPERATION METHOD



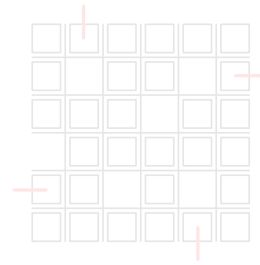
grid of unit



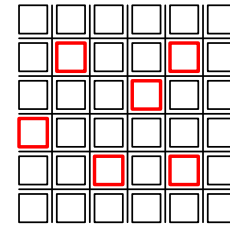
lighting



connection on
the upper floors

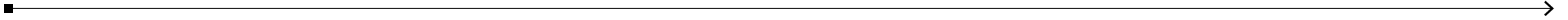
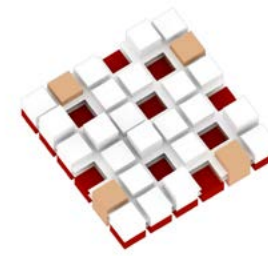


vertical access

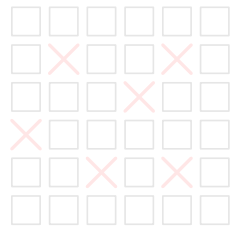


fill in workshop
skylight
fragment

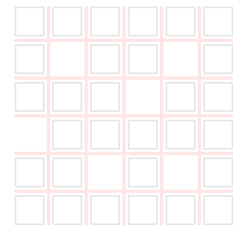
OPERATION METHOD



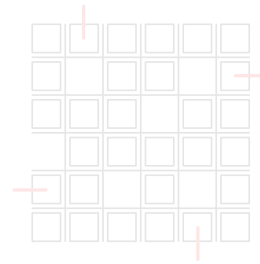
grid of unit



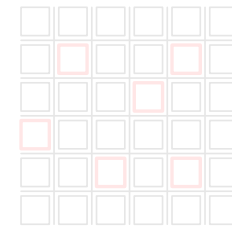
lighting



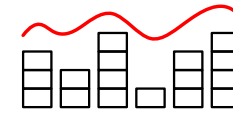
connection on
the upper floors



vertical access

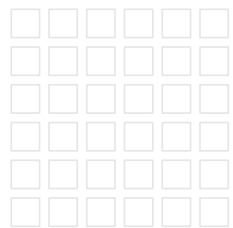
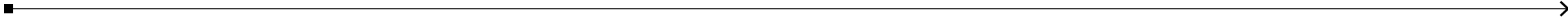


fill in workshop
skylight
fragment

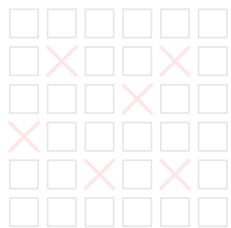


diversify the
configuration

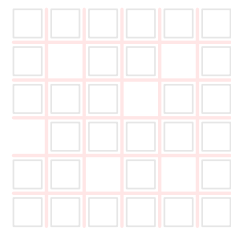
OPERATION METHOD



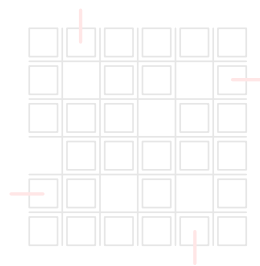
grid of unit



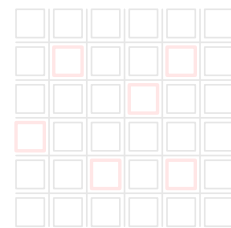
lighting



connection on
the upper floors



vertical access



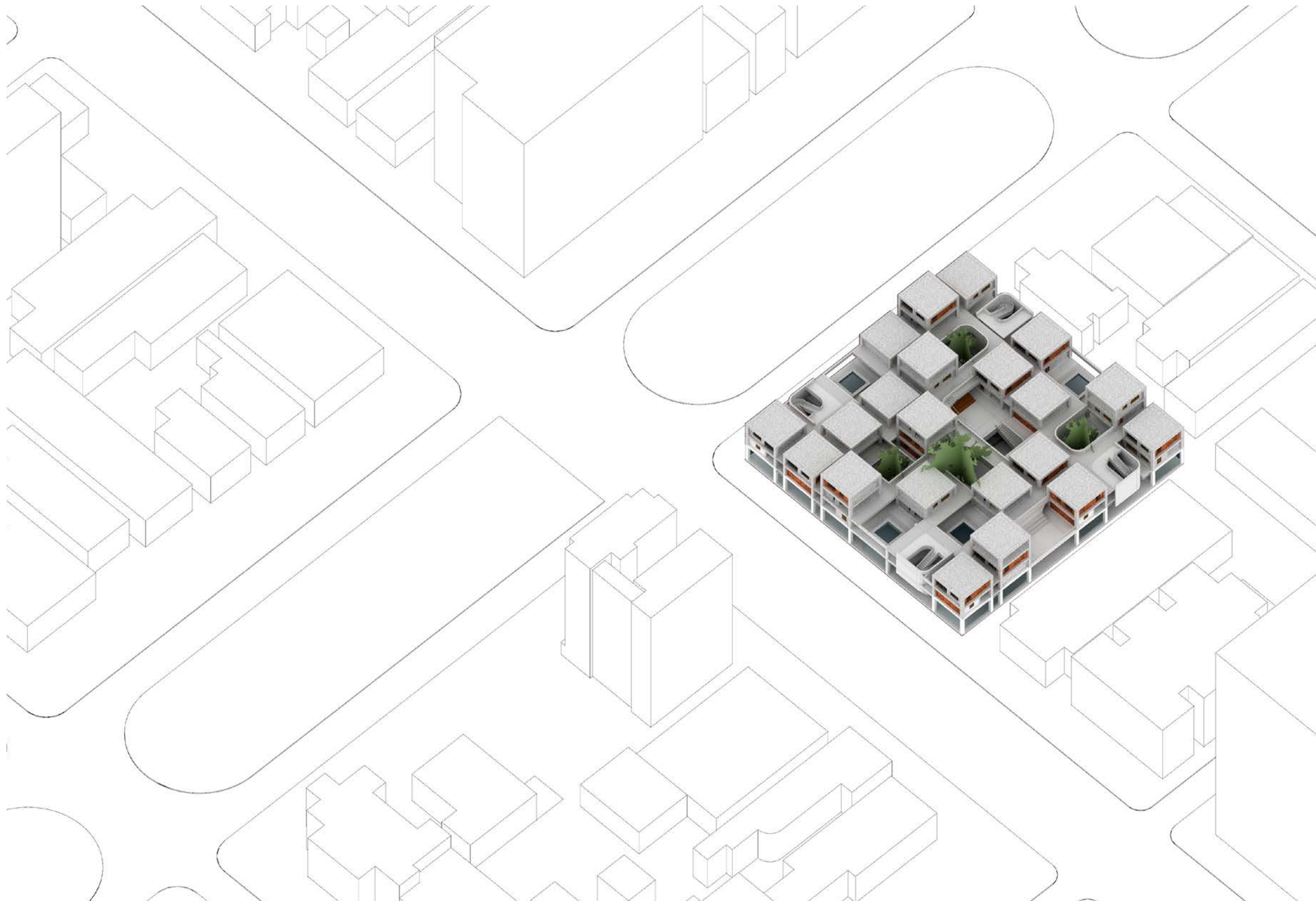
fill in workshop
skylight
fragment

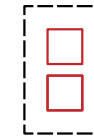
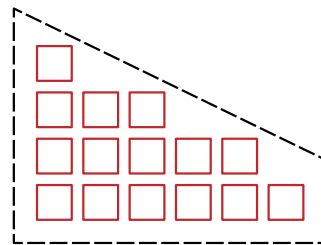
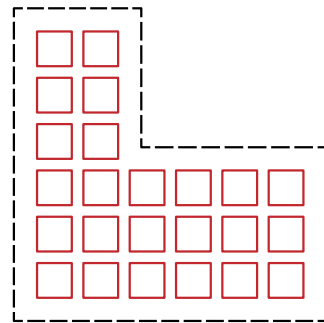
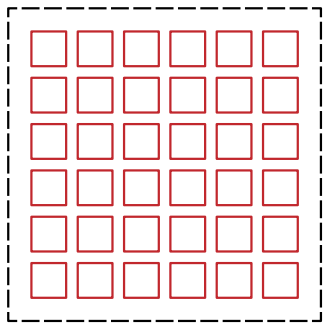


diversify the
configuration

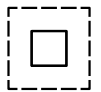
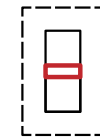
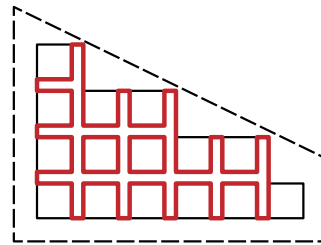
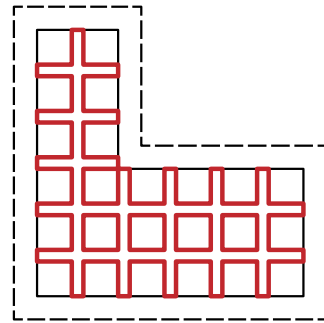
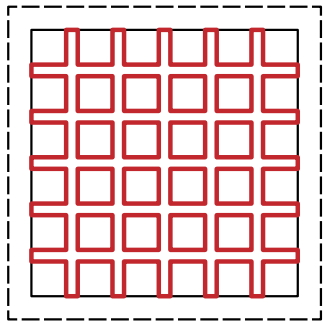
the street,
workshop, other
public functions,
access, yard, as

OPERATION METHOD



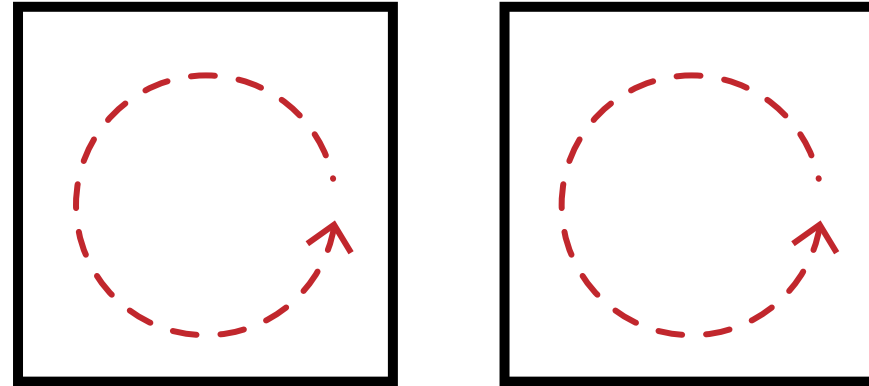


WHY THE GRID
THE ADAPITIBILITY

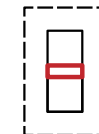
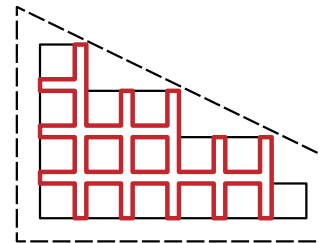
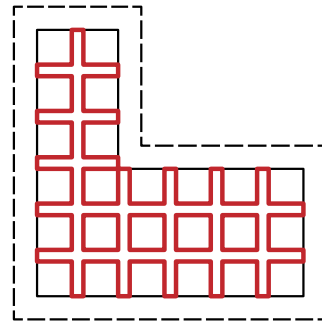
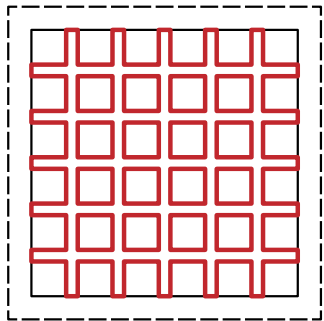


THE VOID IN BETWEEN

1. make sure easy unit stands on their own, no shared elements causing trouble
- 2.natural ventilation

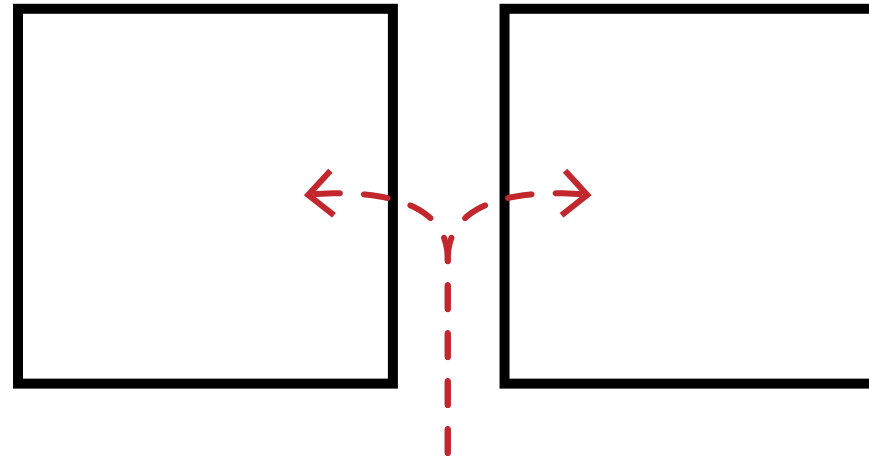


EACH FAMILY STANDS ON HIS OWN

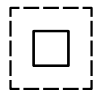
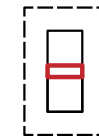
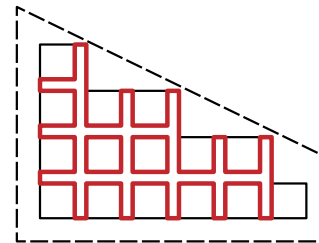
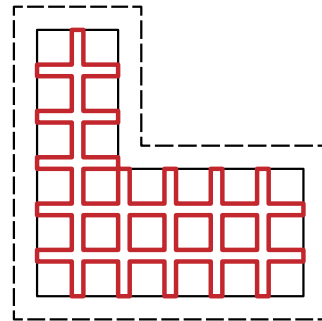
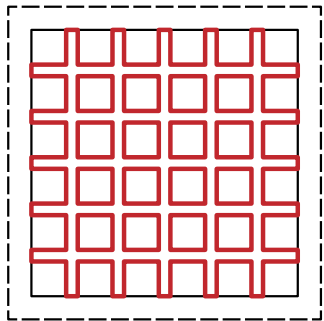


THE VOID IN BETWEEN

1. make sure easy unit stands on their own, no shared elements causing trouble
2. natural ventilation

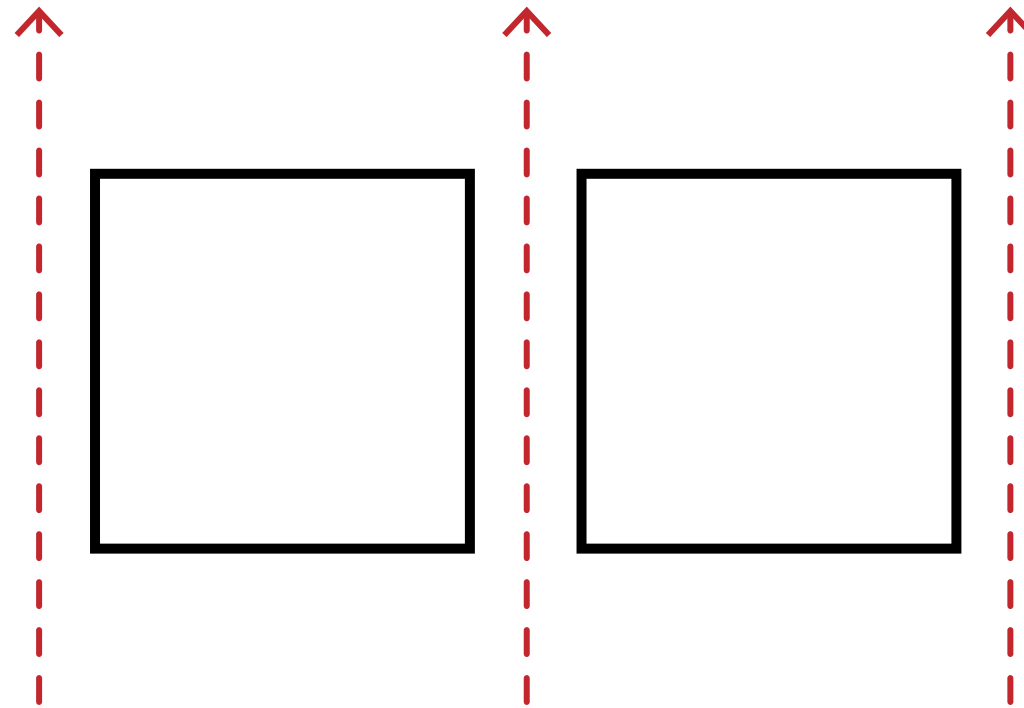


CONNECTION IN THE UPPER FLOOR

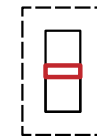
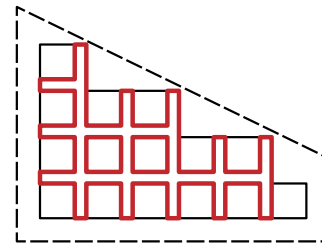
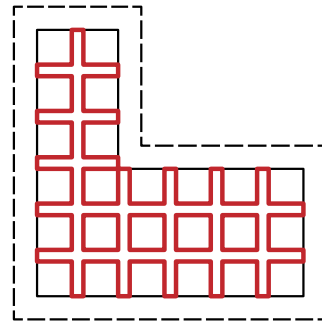
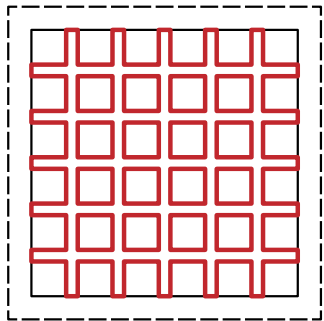


THE VOID IN BETWEEN

1. make sure easy unit stands on their own, no shared elements causing trouble
2. natural ventilation

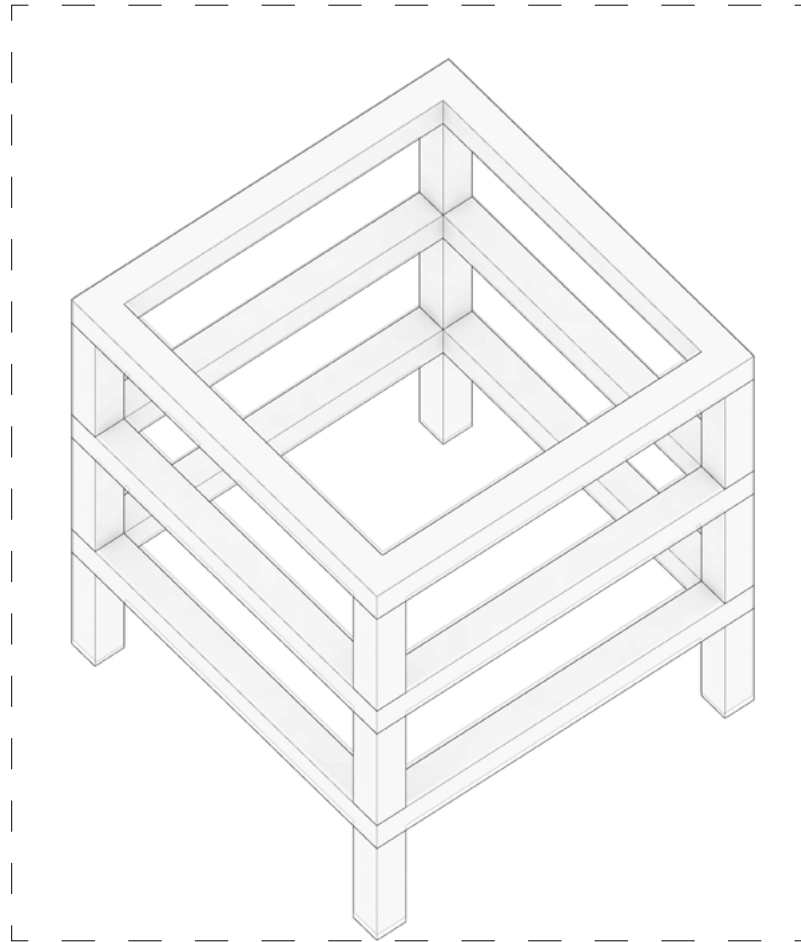


NATURAL VENTILATION



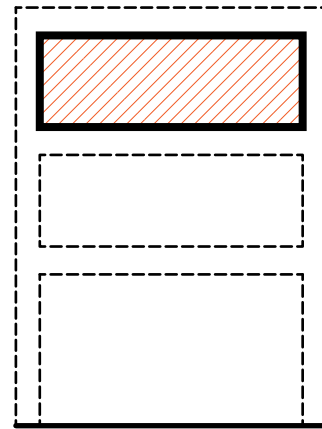
THE VOID IN BETWEEN

1. make sure easy unit stands on their own, no shared elements causing trouble
- 2.natural ventilation



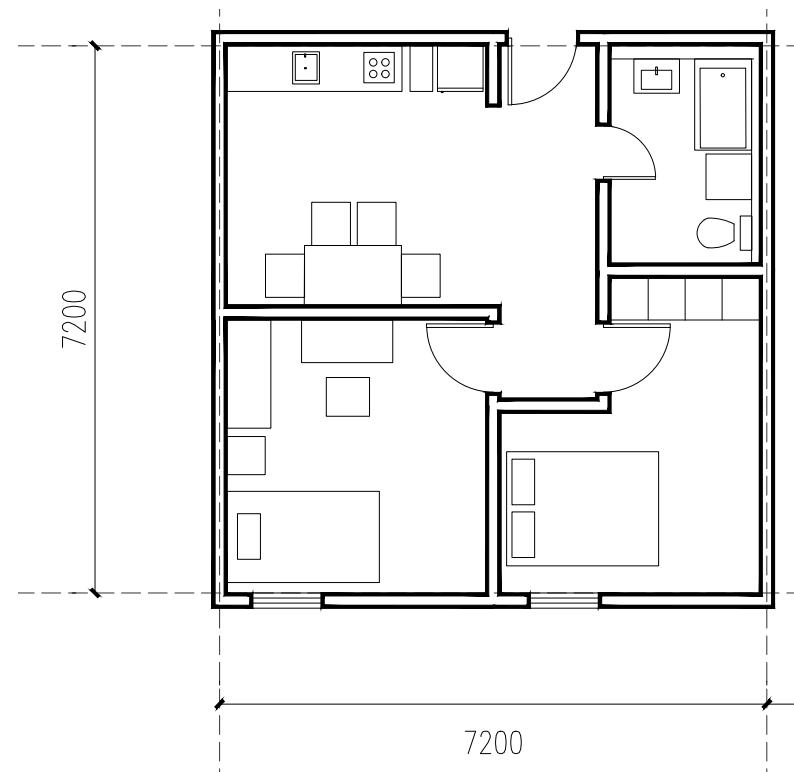
HOUSING PART

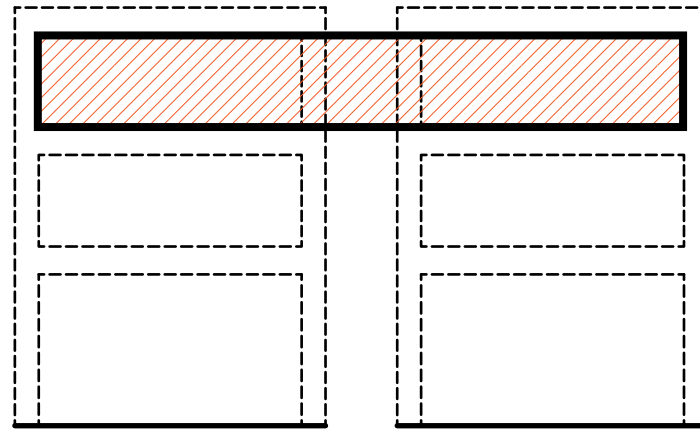




1

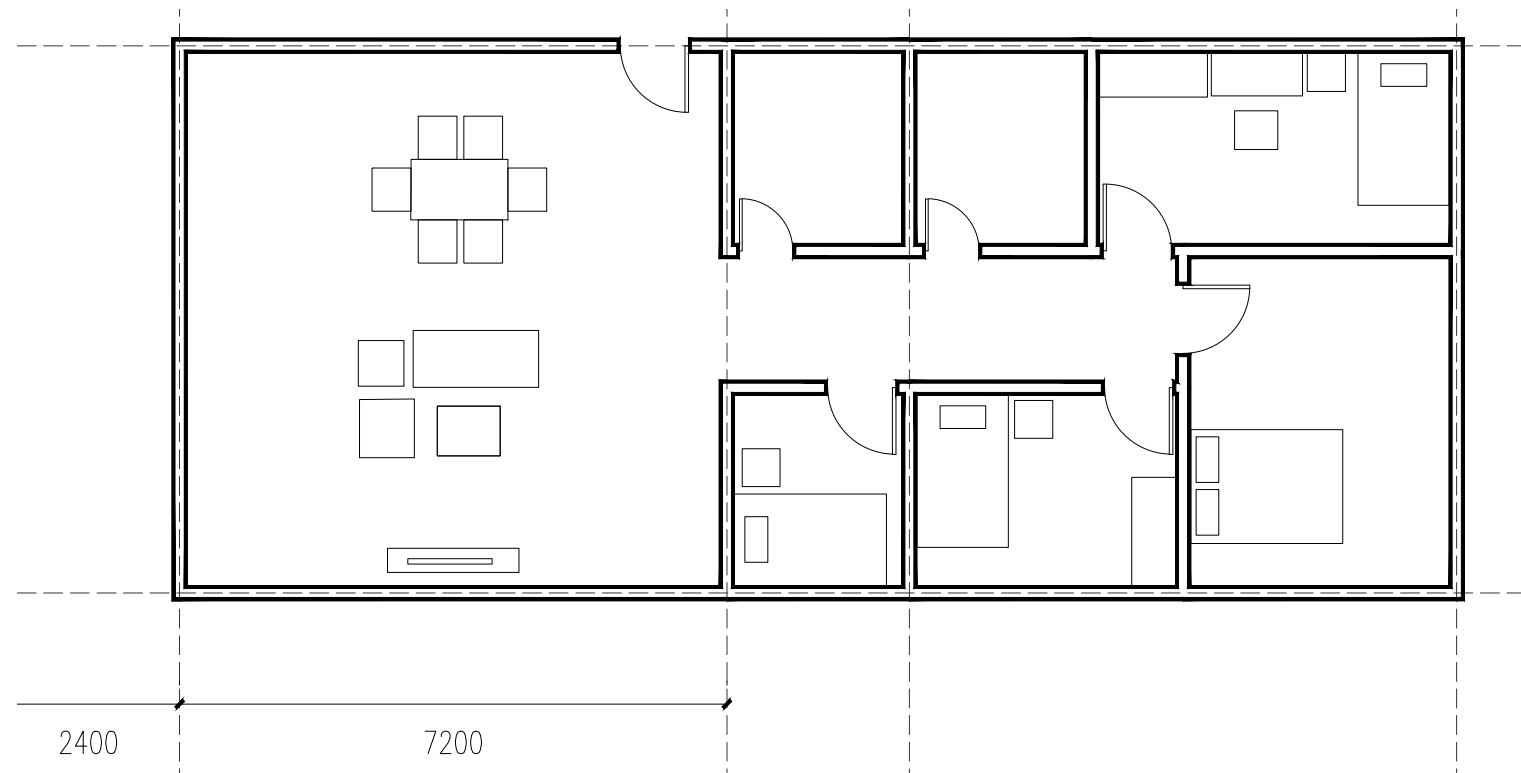
one unit

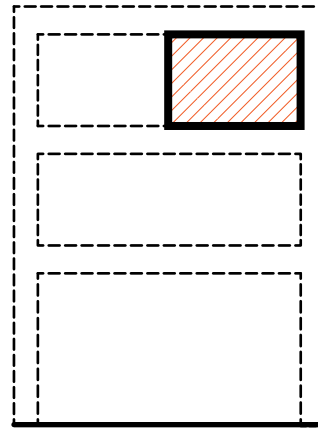




2

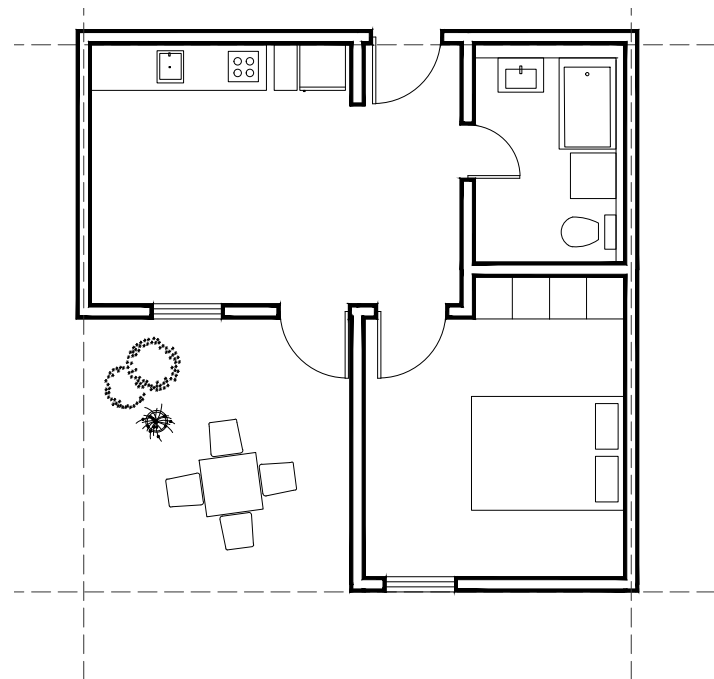
two unit

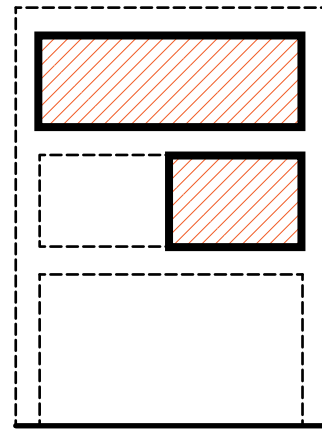




3

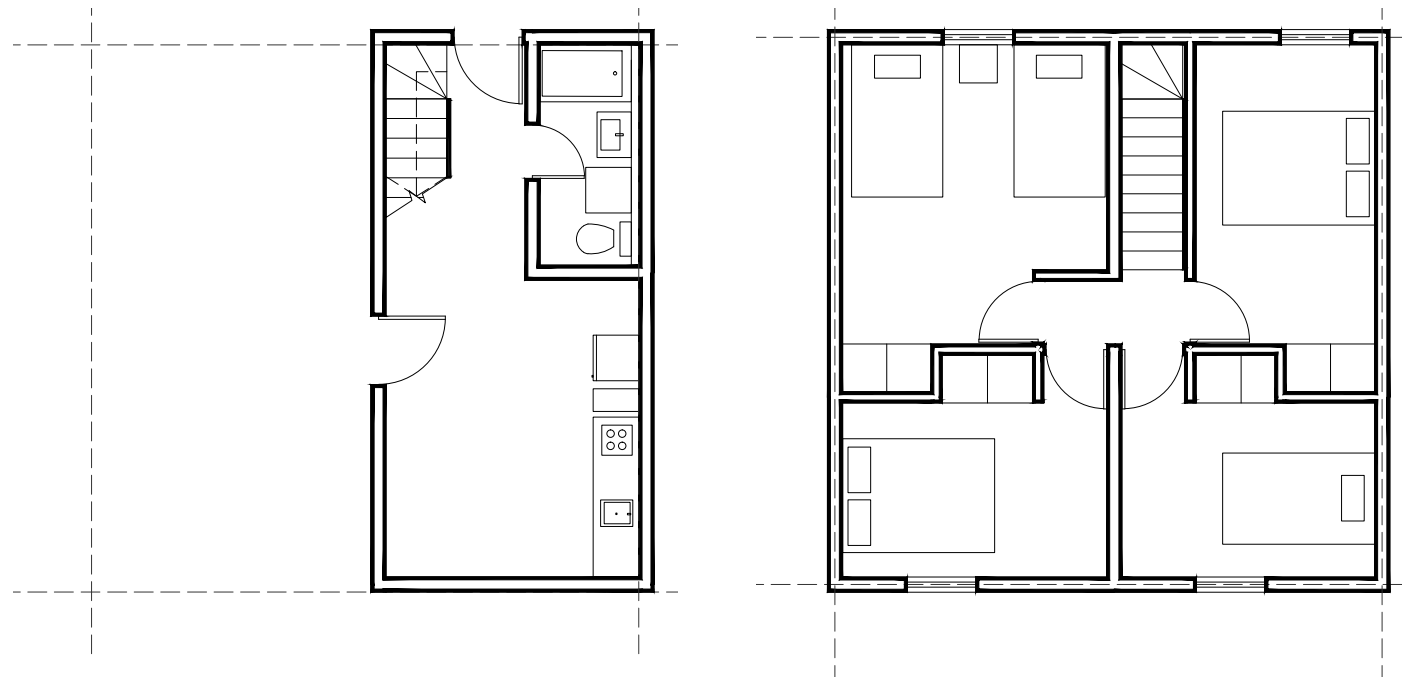
half-occupied



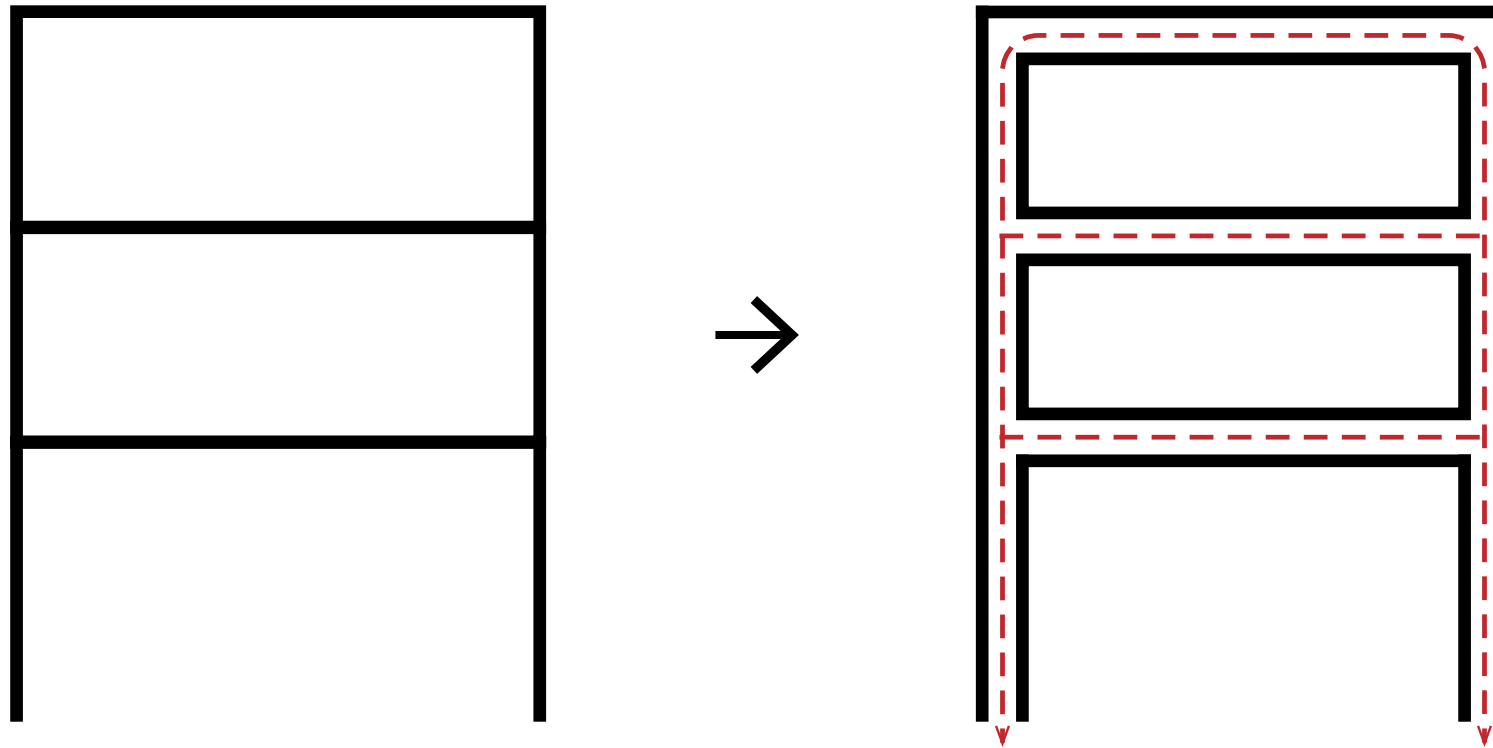


4

vertical 2-story unit

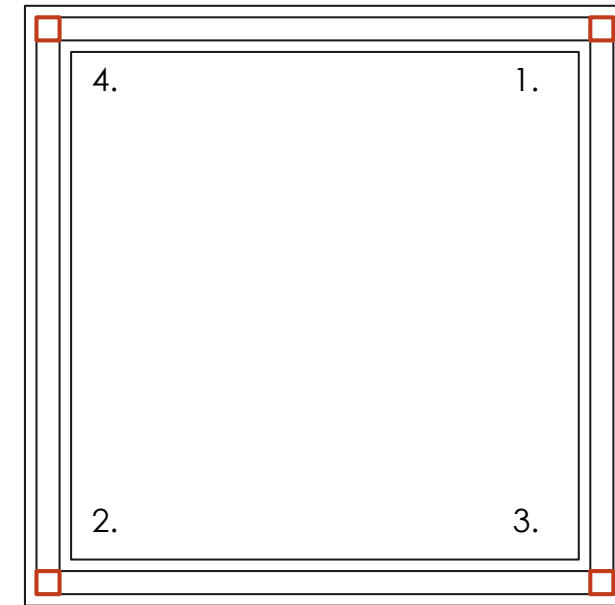
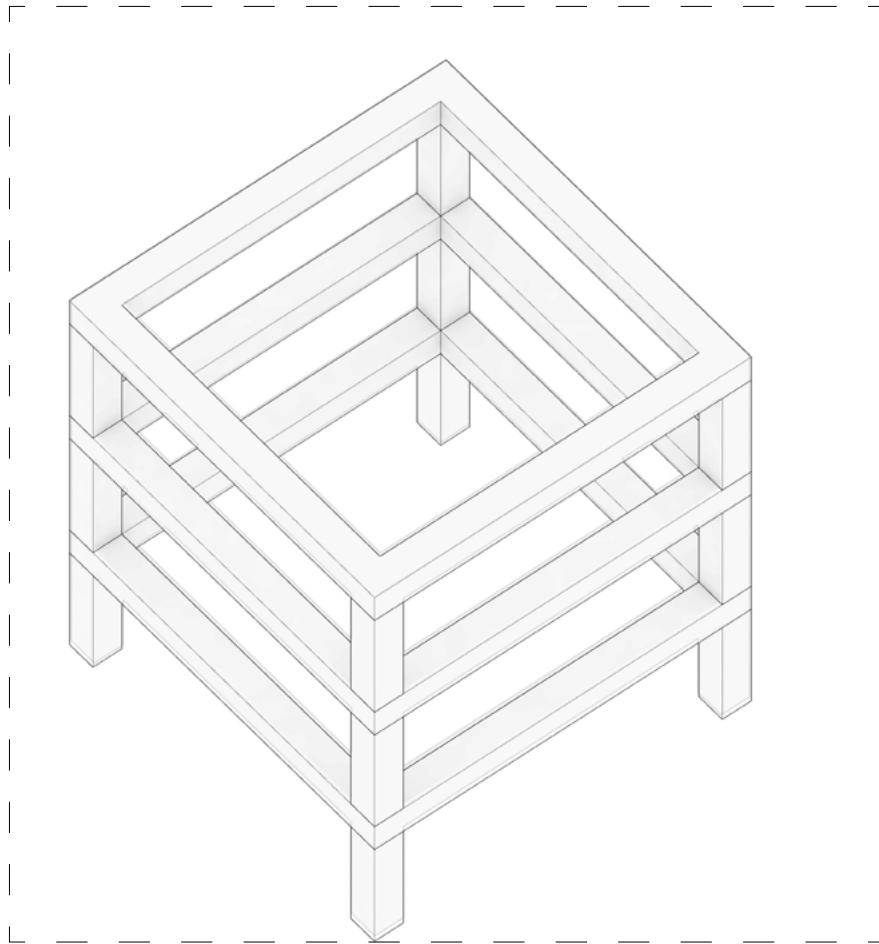




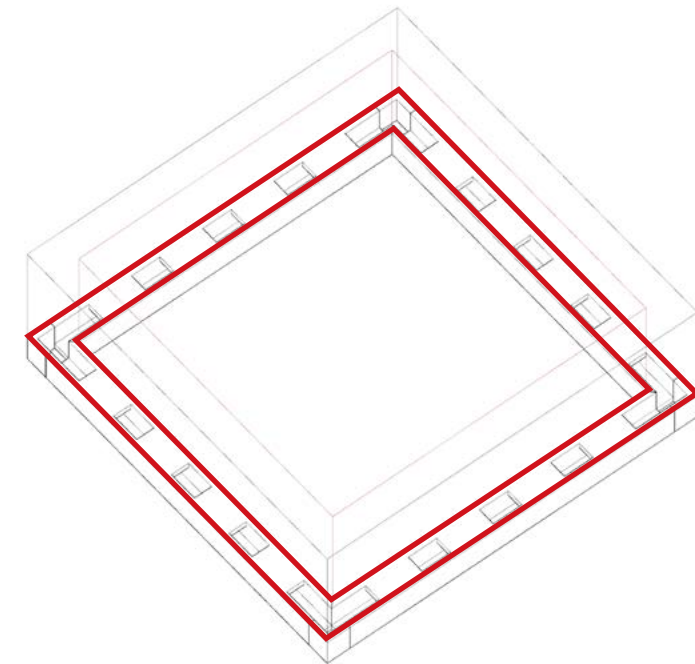
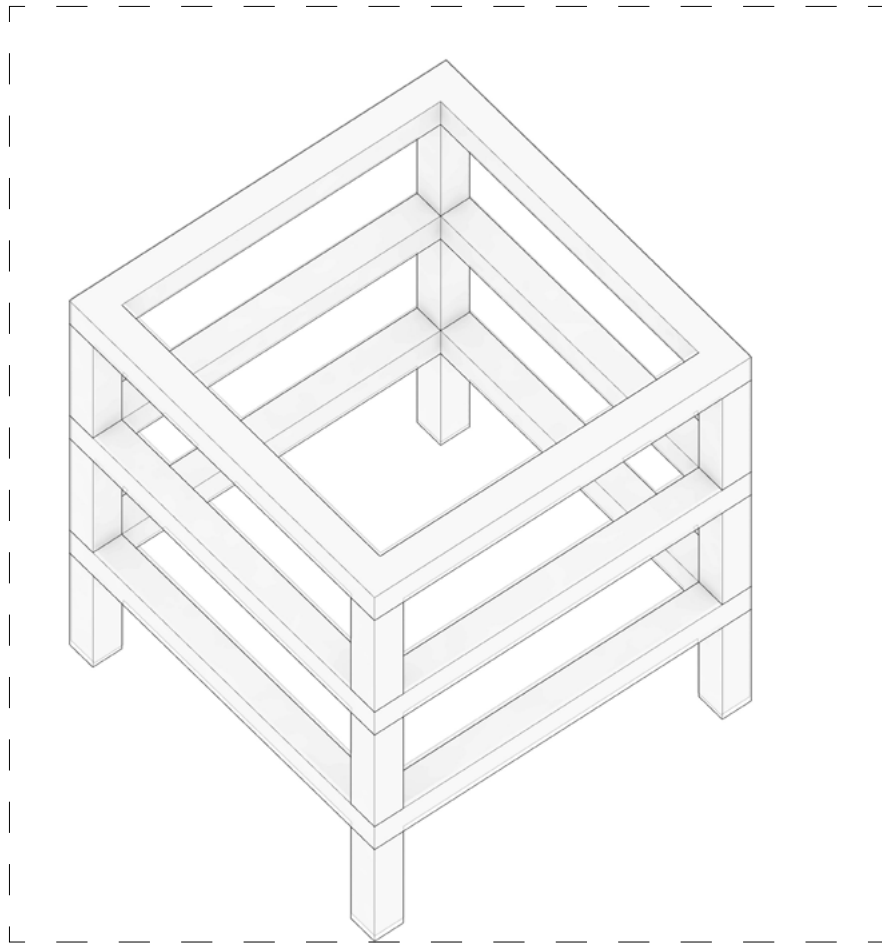


SANITARY FACILITIES' ZONE

each unit functionally stands on its own



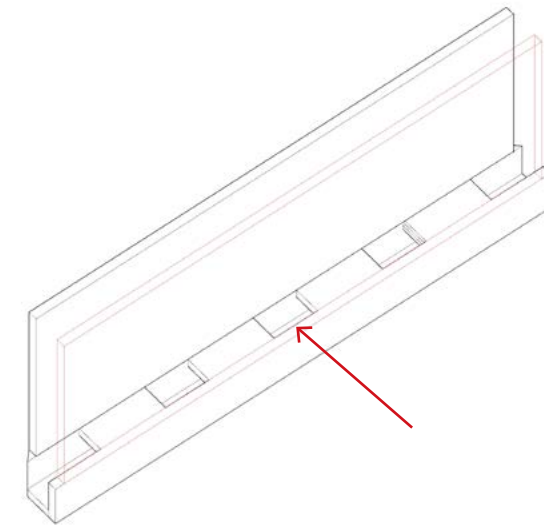
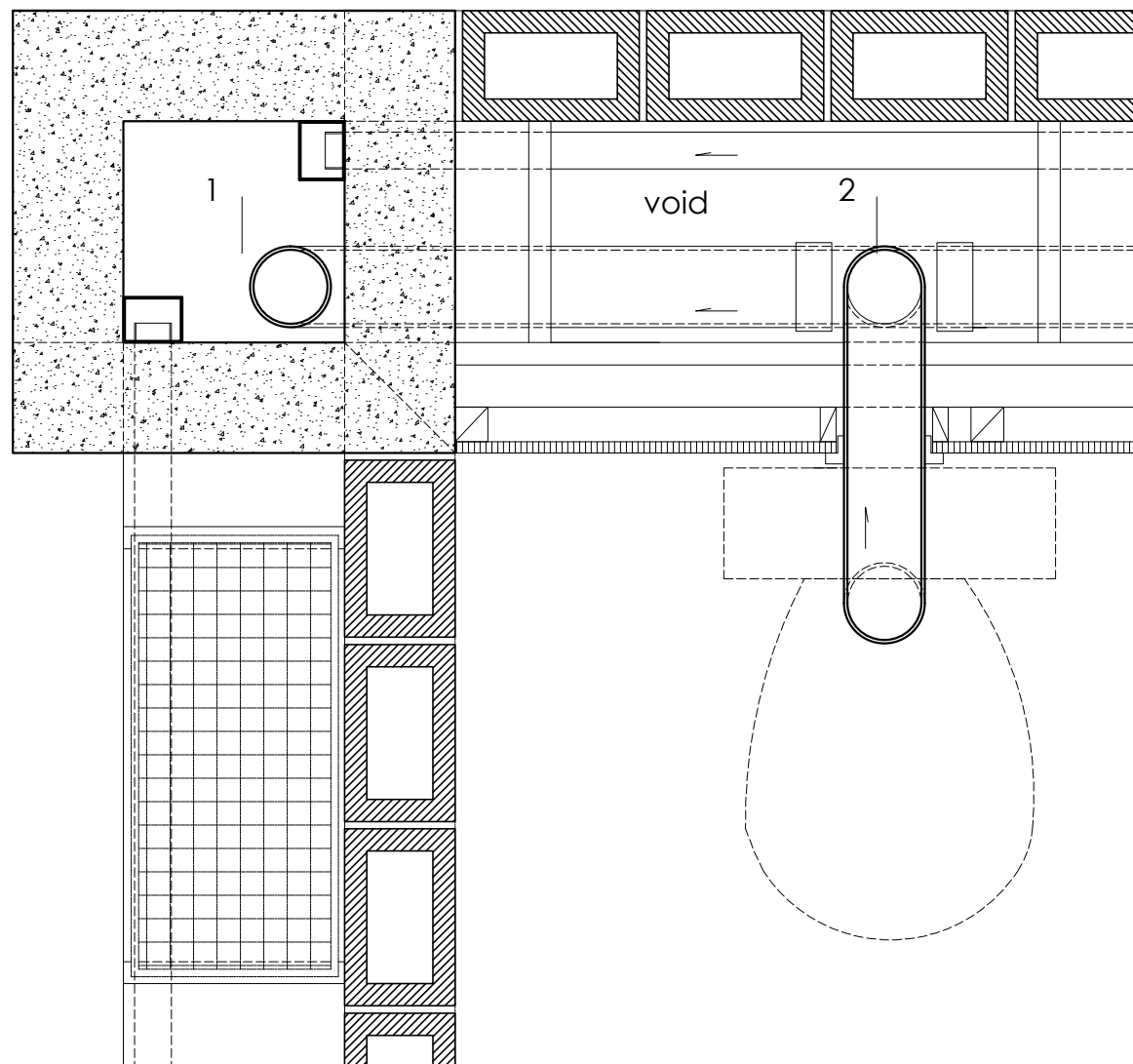
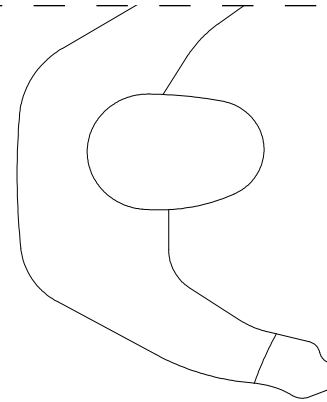
- 1. wet zone - sewage & water supply
- 2. dry zone - electricity
- 3&4. flexible zone for future change



The outside ring in the unit as sanitary space

DETAIL PLAN VIEW 1:10

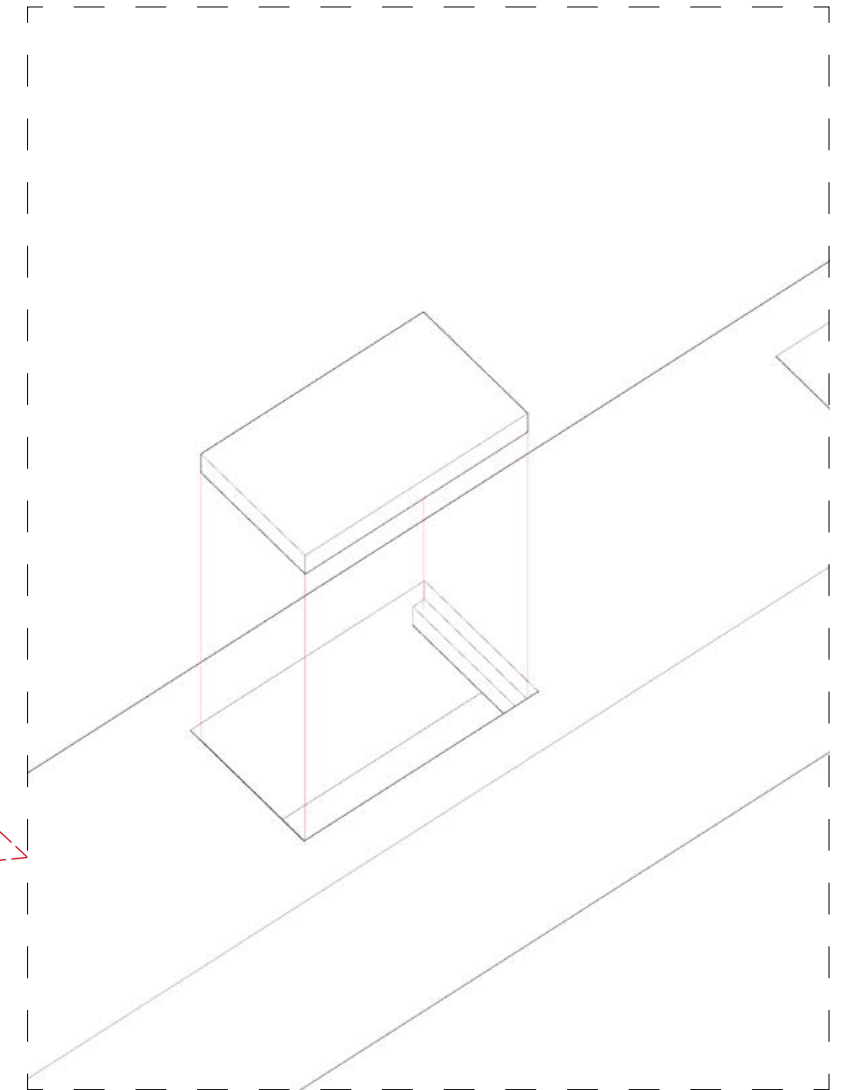
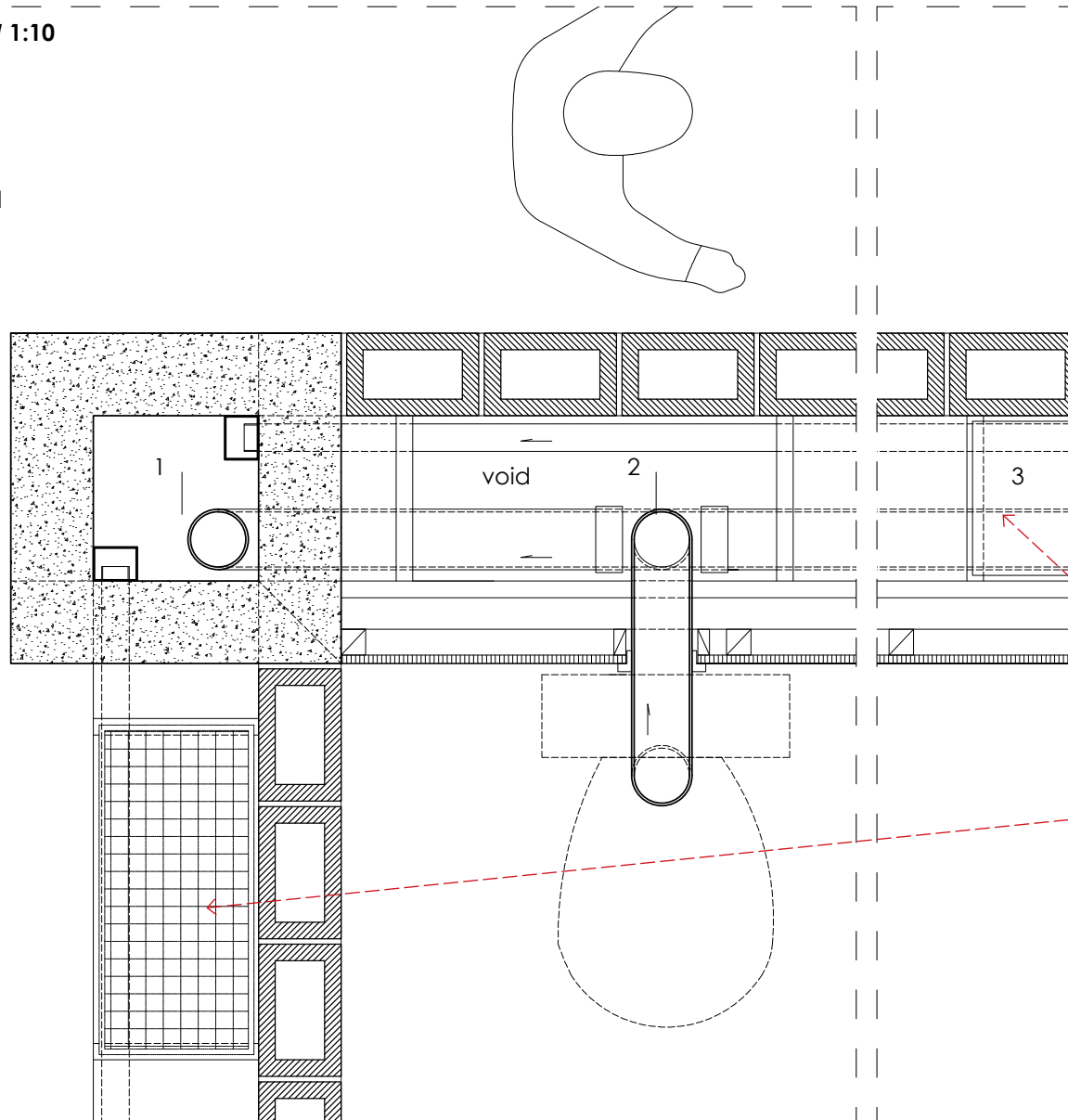
- 1. wire mesh
- 2. sewage pipe connection
- 3. wooden plate covering the void



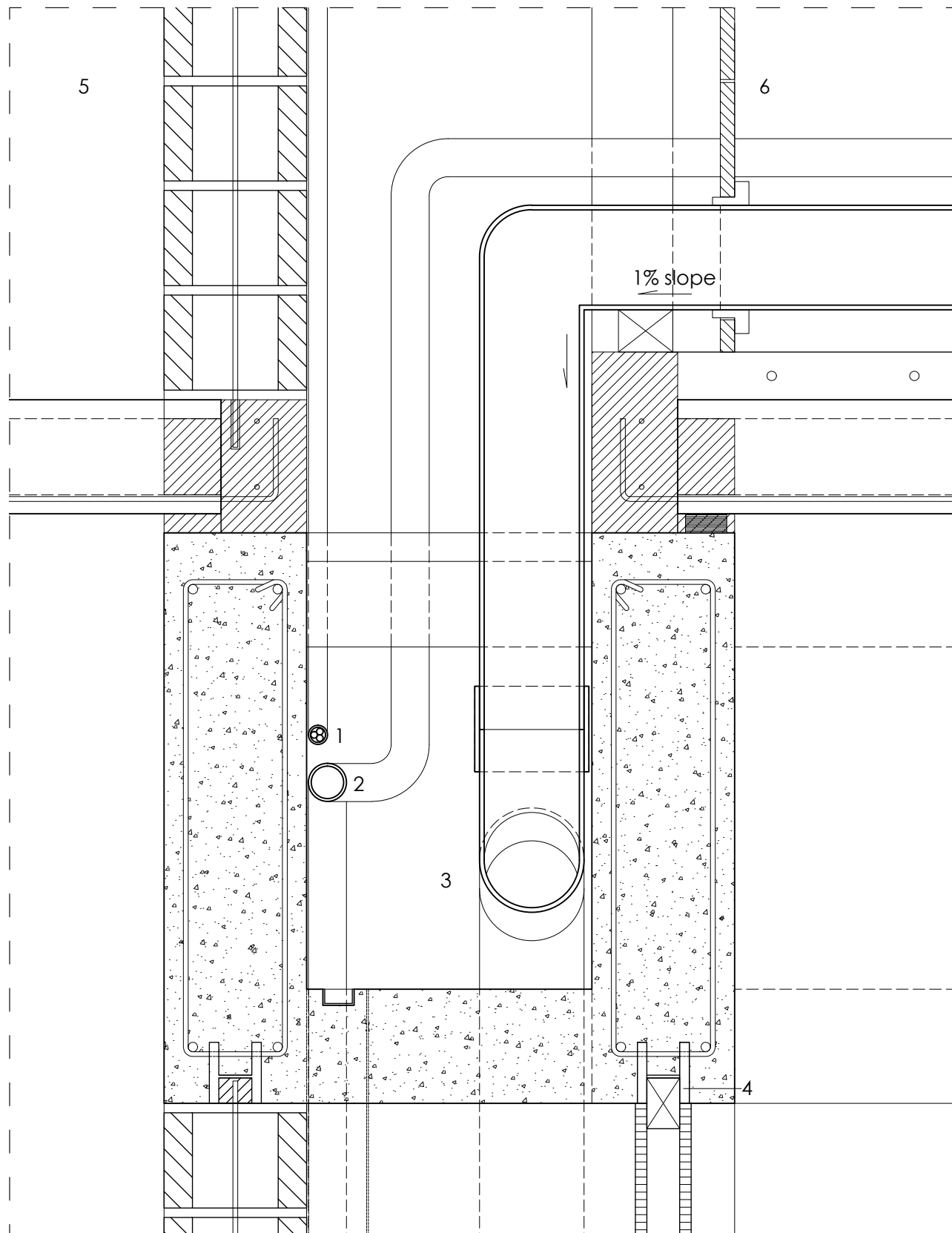
Management of the pipes through the inner wall

DETAIL PLAN VIEW 1:10

- 1. wire mesh
- 2. sewage pipe connection
- 3. wooden plate covering the void

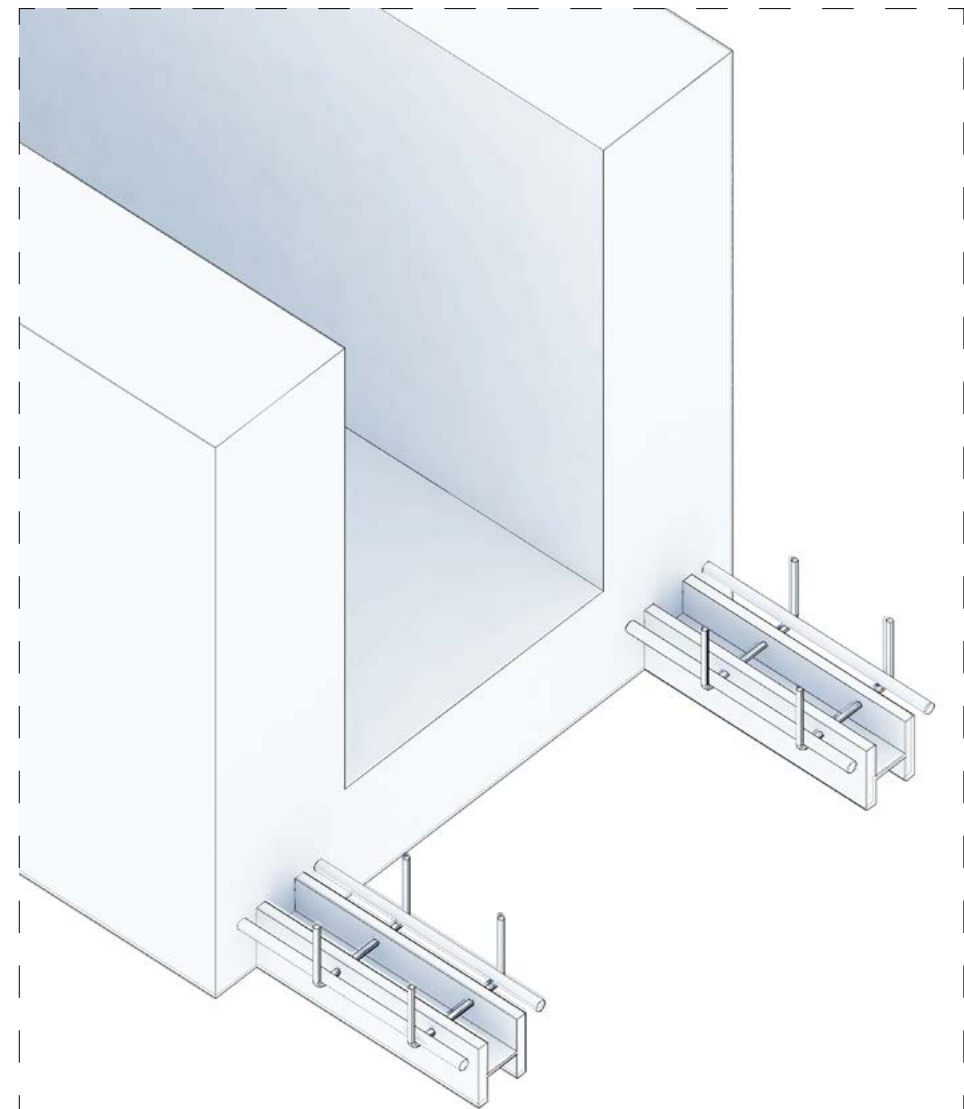


A plate to cover the holes for easy maintainance

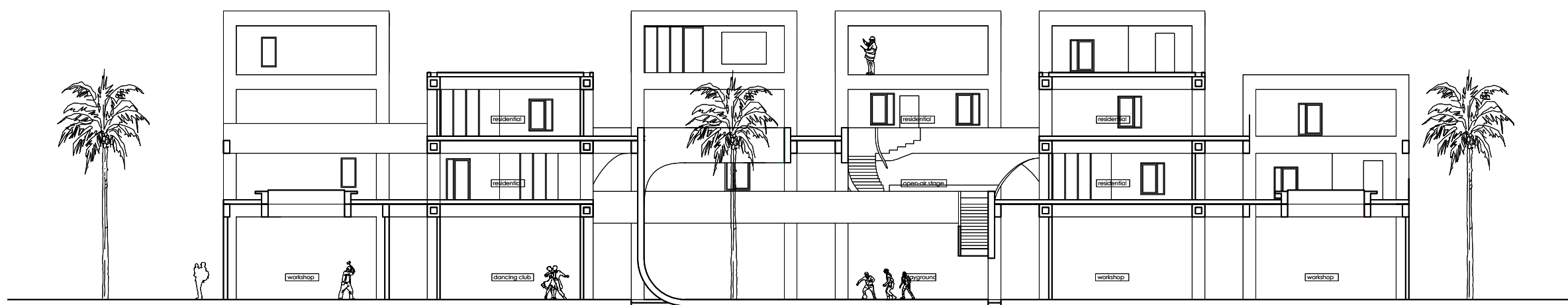


DETAIL BEAM CONNECTION

- 1. Electricity
- 2. Water supply
- 3. Sewage water
- 4. metal precast in beam
- 5. outside wall made by cement block
- 6. inner wooden wall



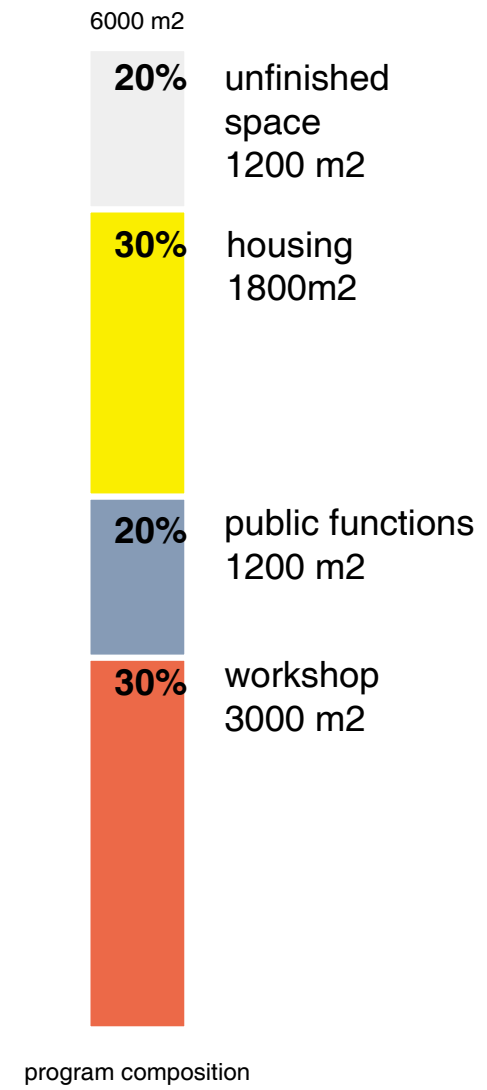
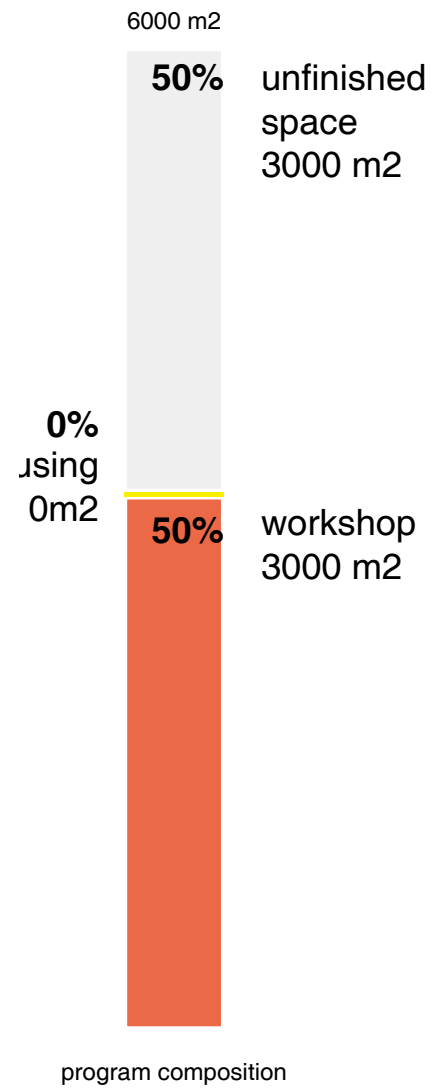




PUBLIC PART

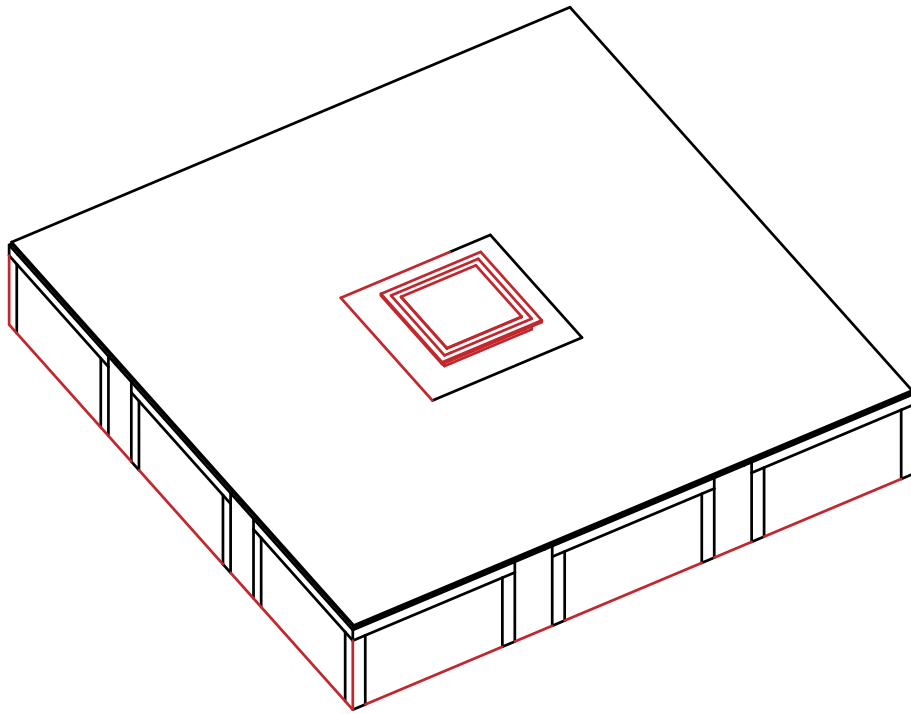
PHASING

FROM INTERIOR WORKSHOP TO OUTDOOR VOID

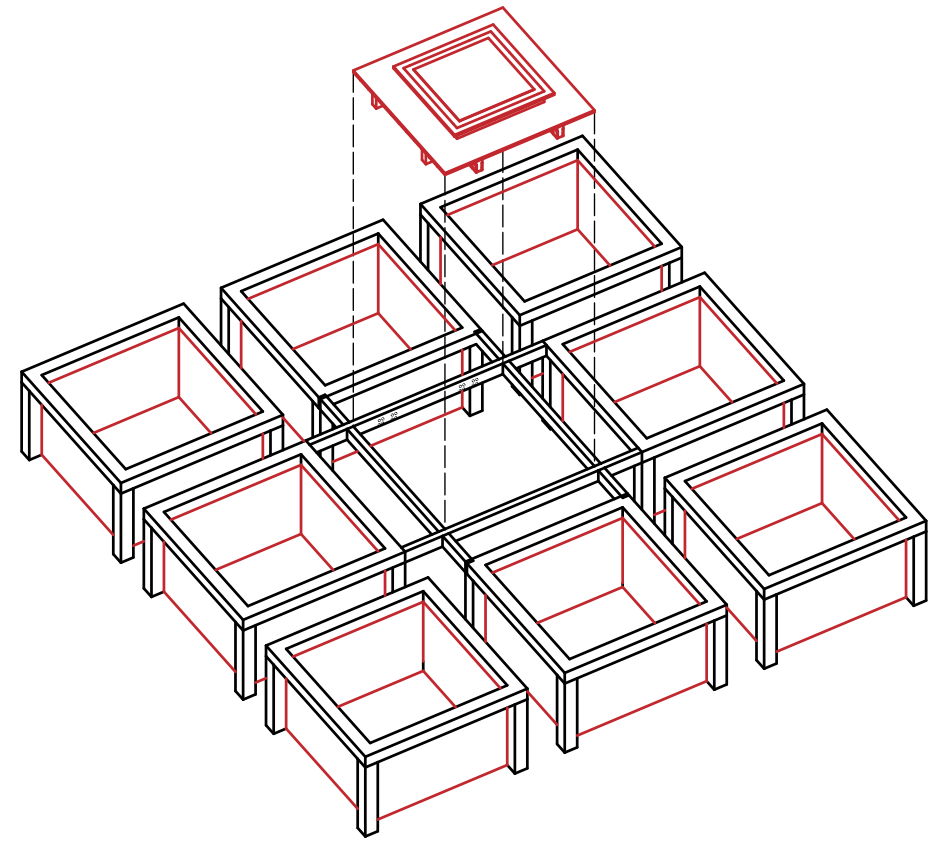


PHASING

FROM INTERIOR WORKSHOP TO OUTDOOR VOID



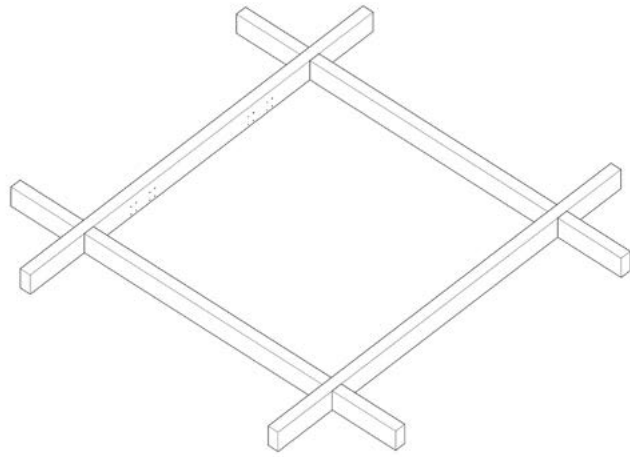
A whole free interior space



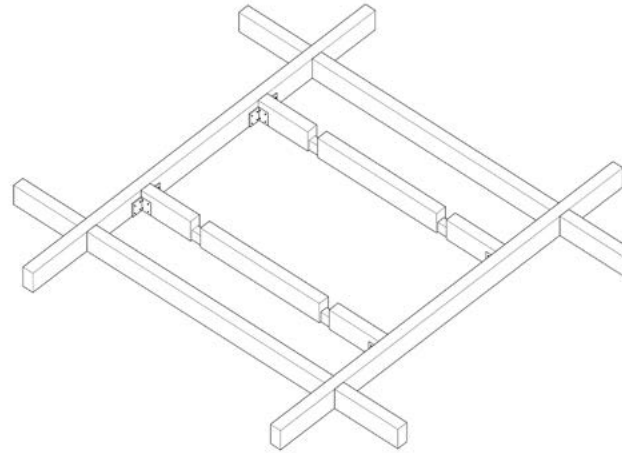
each unit stands on its own on ground level

PHASING

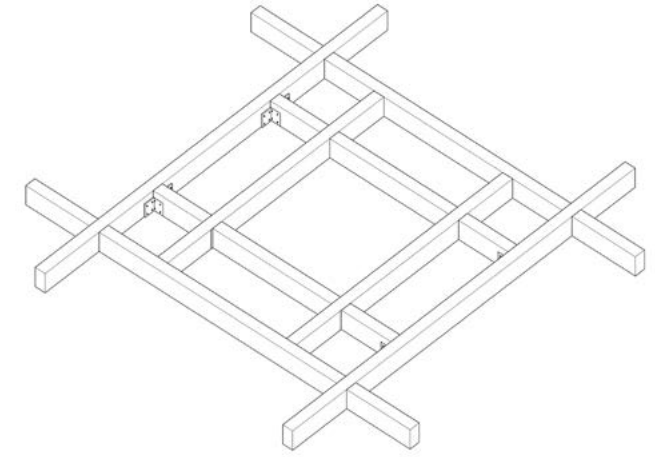
FROM INTERIOR WORKSHOP TO OUTDOOR VOID



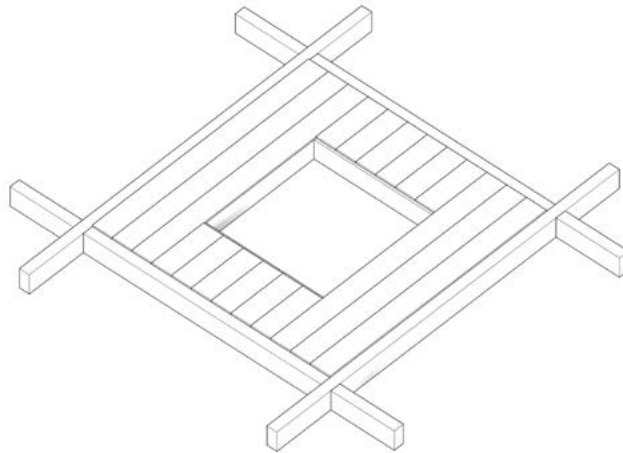
1
precast concrete beam



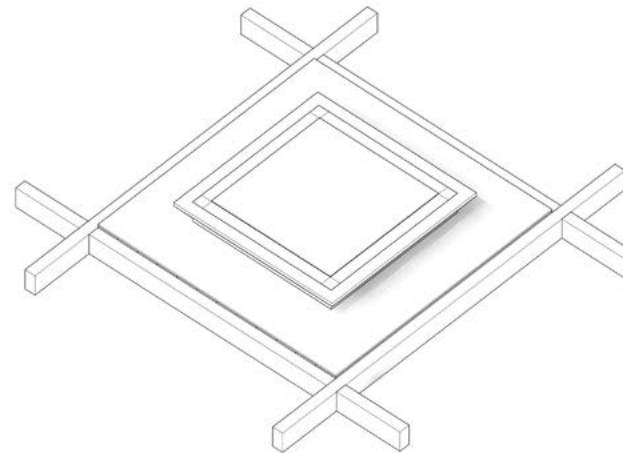
2
connect main wooden beam



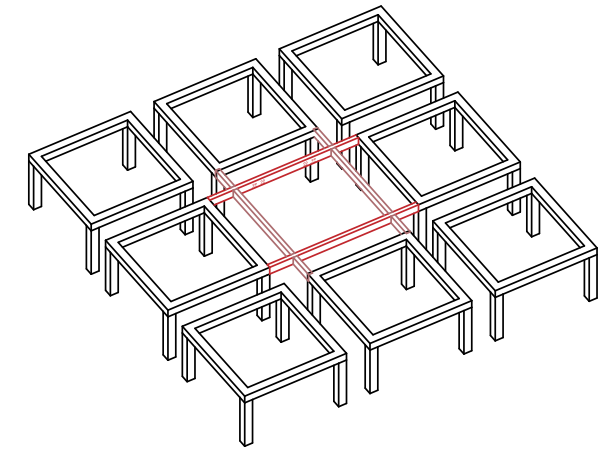
3
connect secondary wooden beam



4
slab

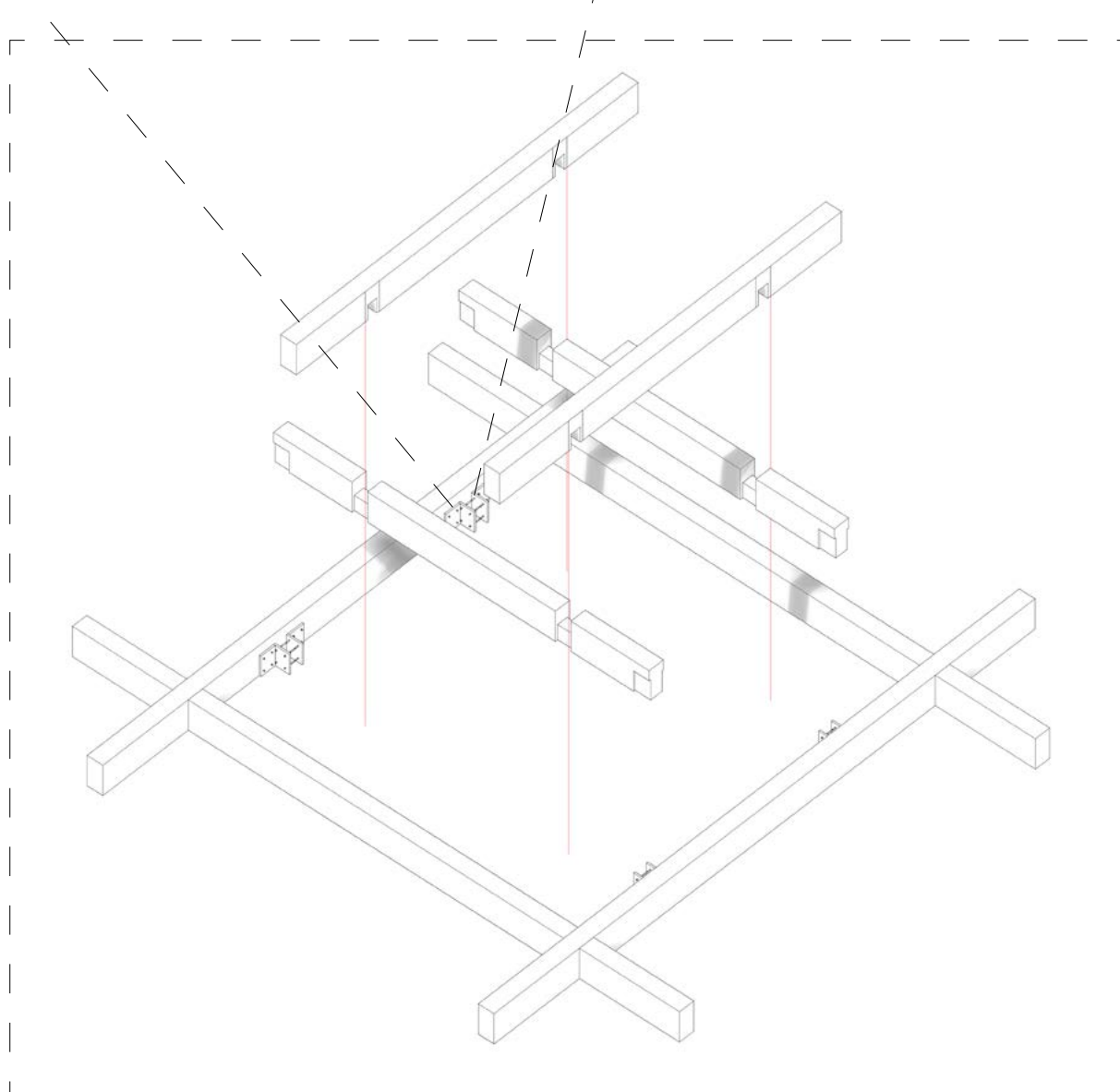
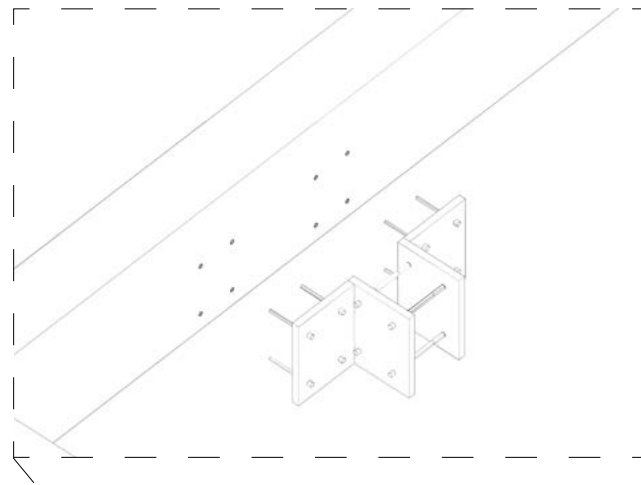


5
workshop skylight



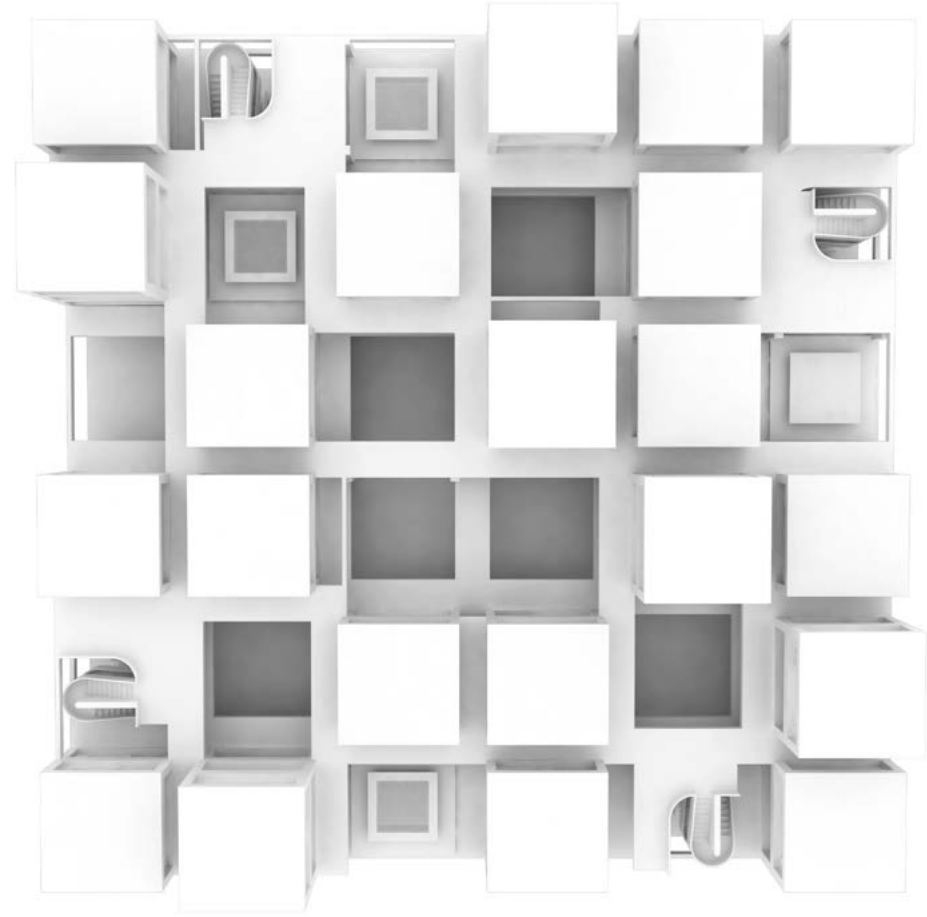
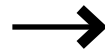
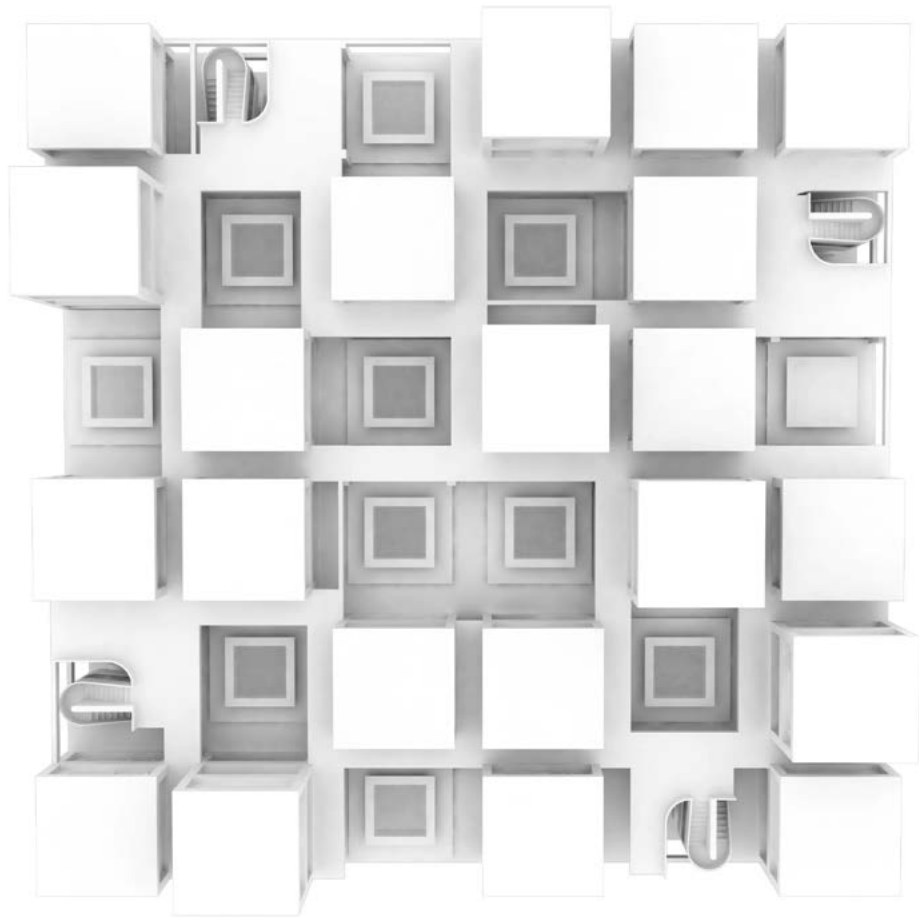
for freestanding space

metal bolts precasted along
with the concrete beam



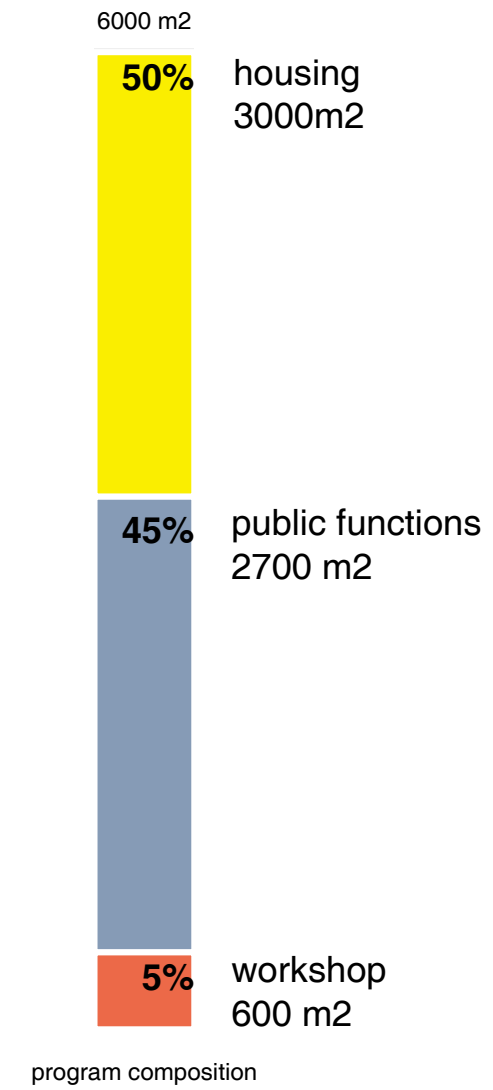
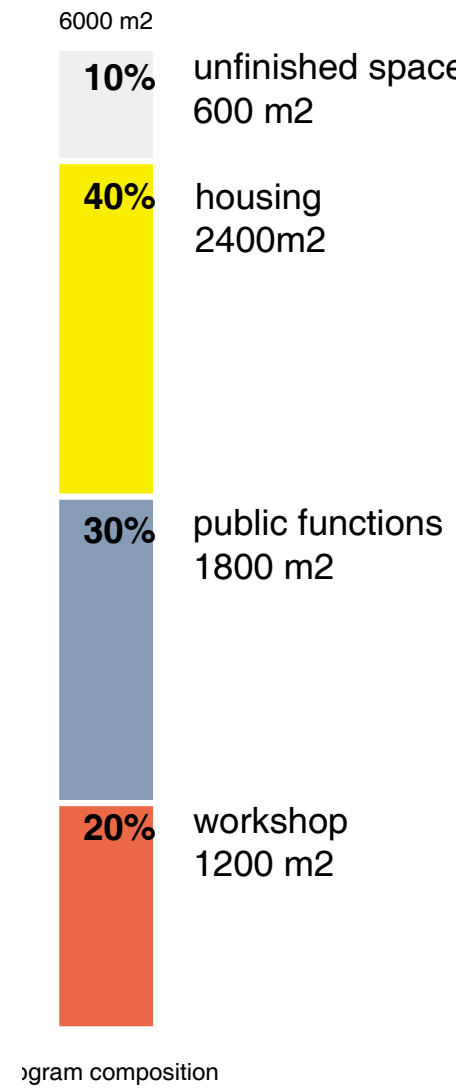
PHASING

FROM INTERIOR WORKSHOP TO OUTDOOR VOID

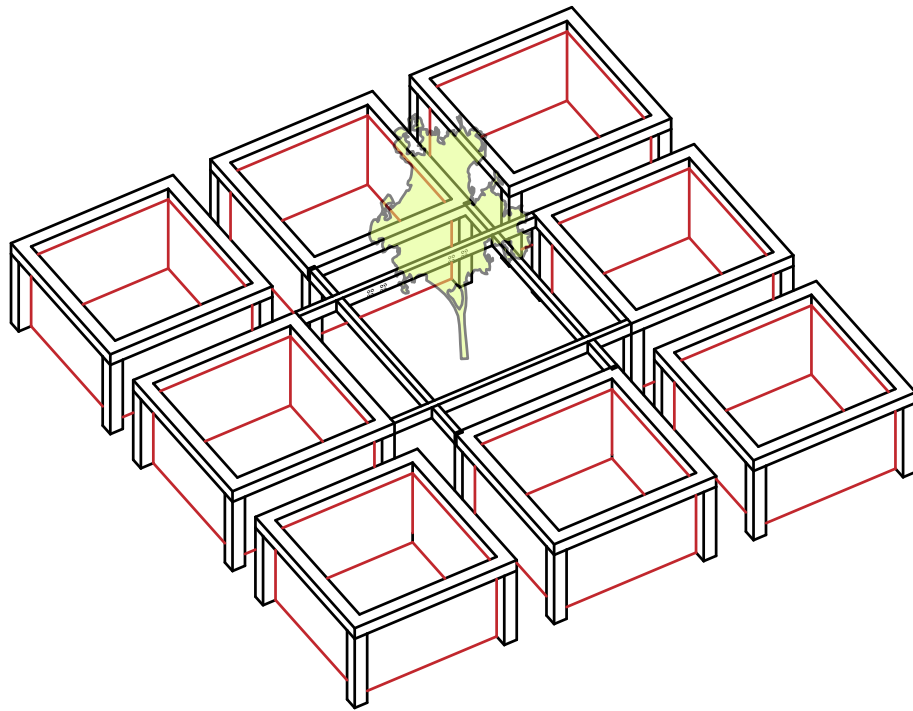


PHASING

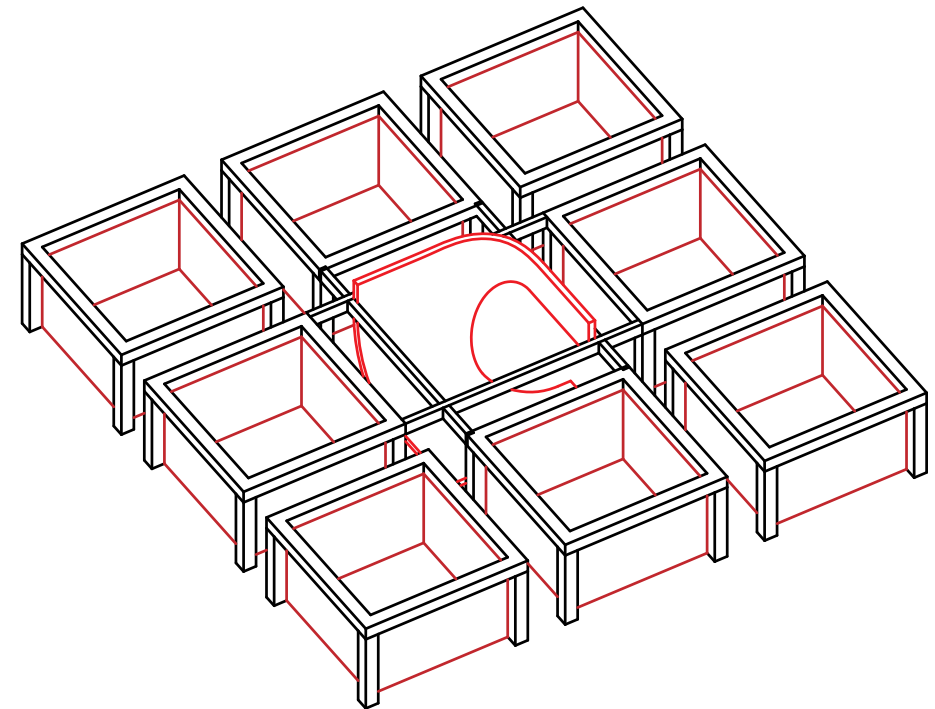
FROM VOID TO ARCHITECT'S INTERVENTION



PHASING
FROM VOID TO ARCHITECT'S INTERVENTION



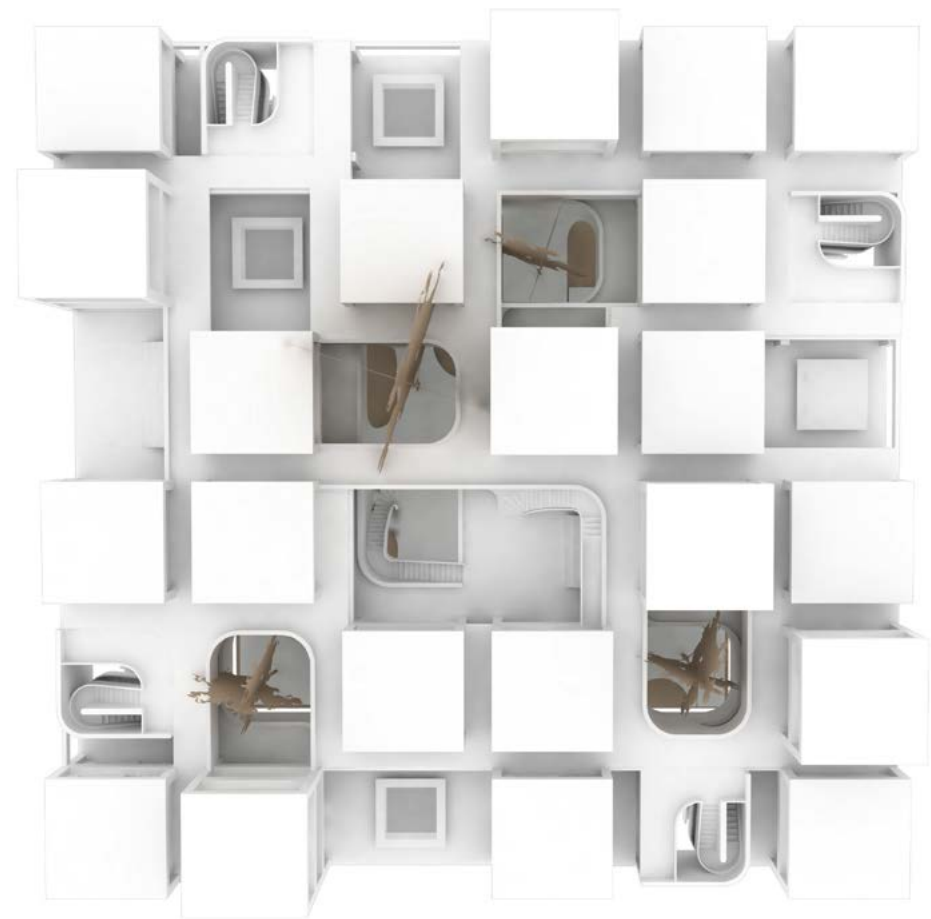
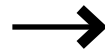
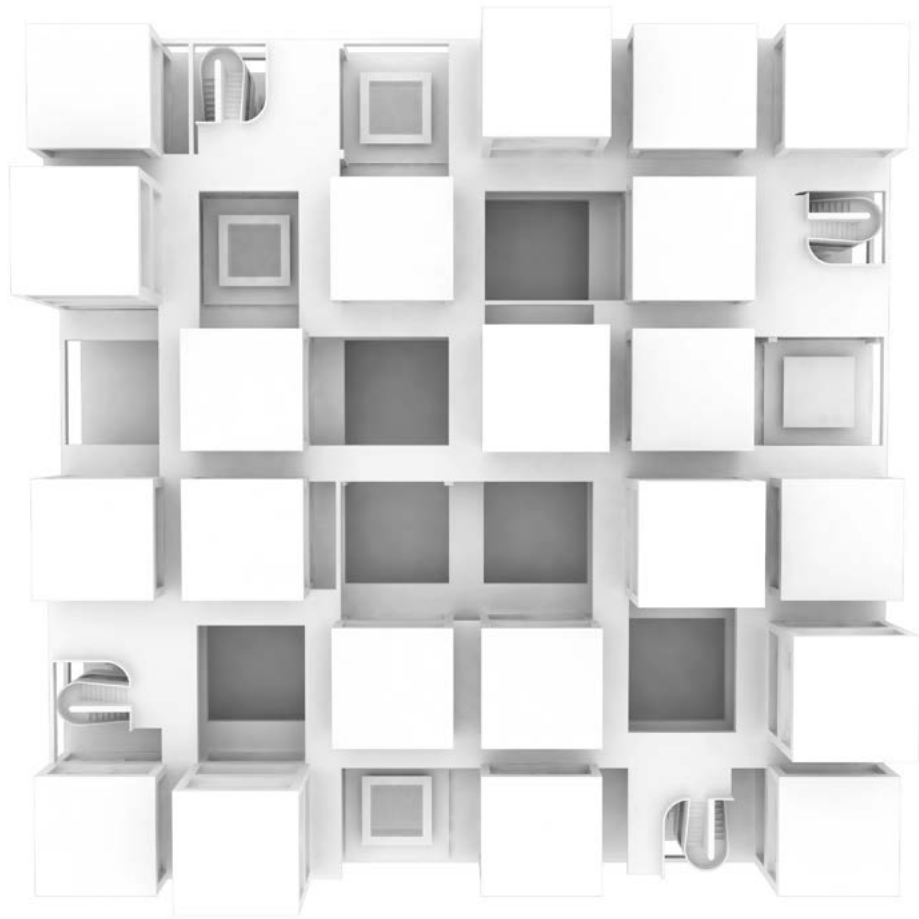
rigid and static exterior void

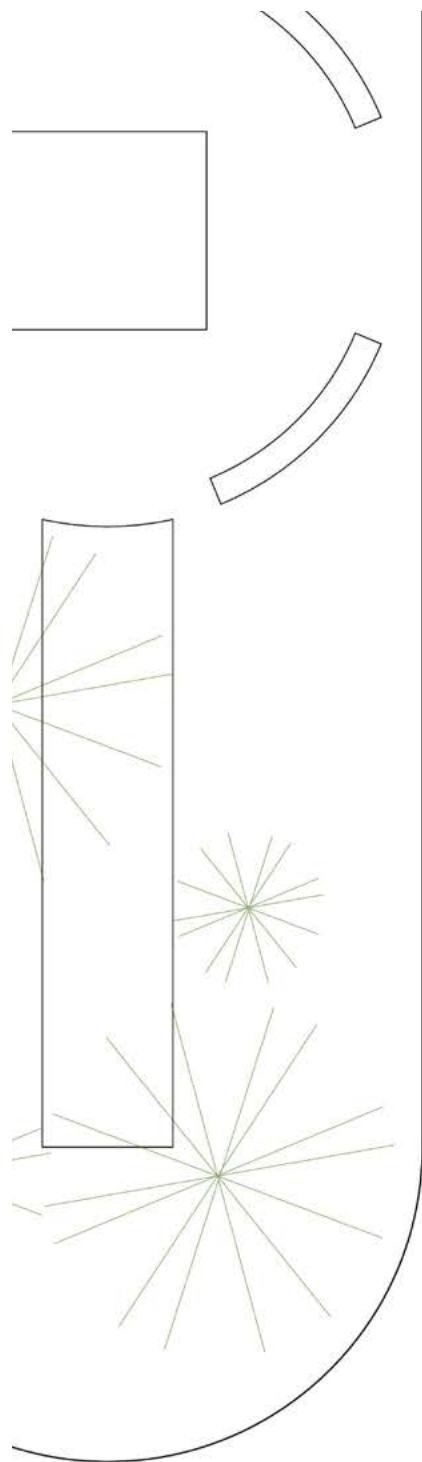


stimulate social life through reshaping space

PHASING

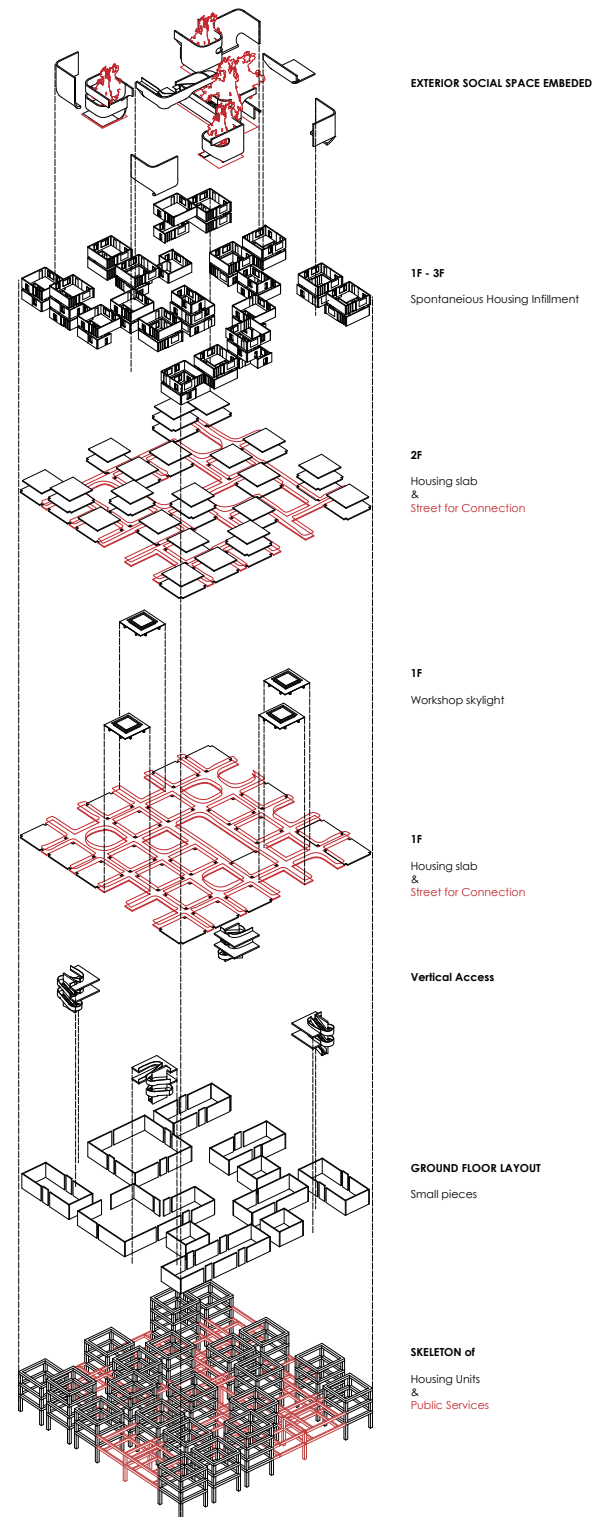
FROM VOID TO ARCHITECT'S INTERVENTION



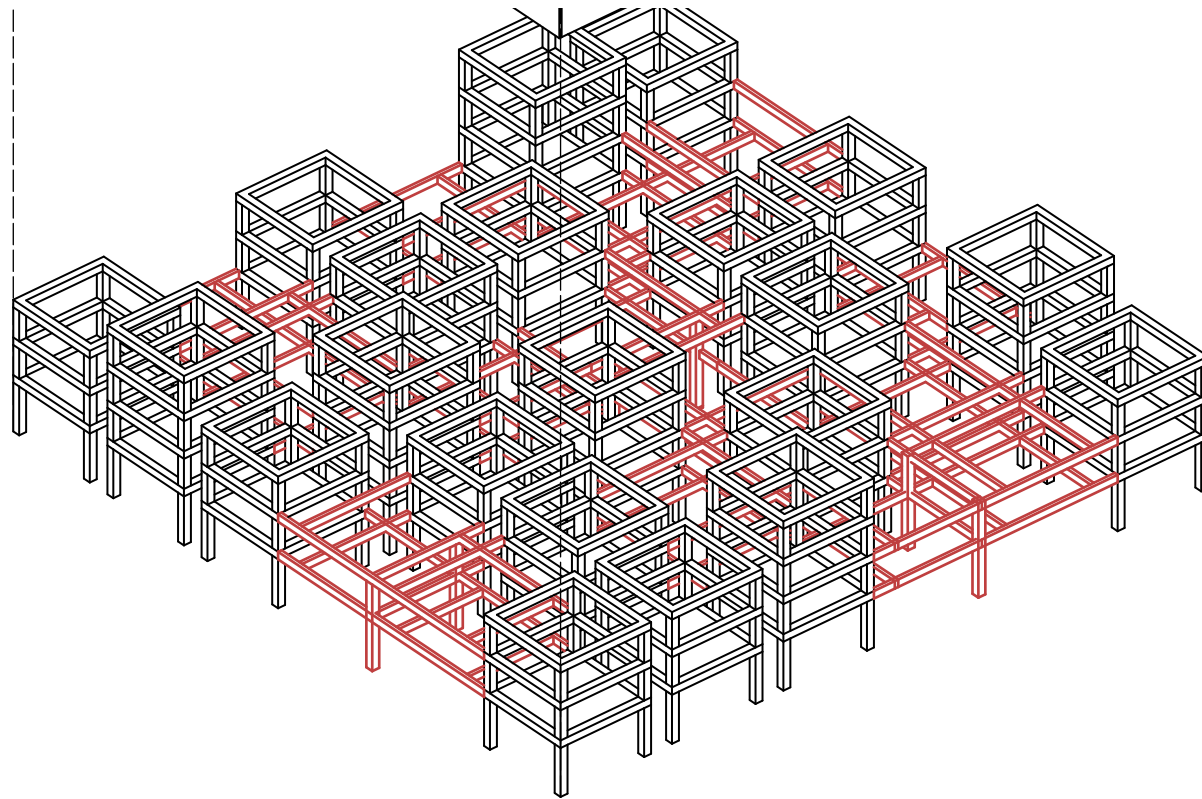


GROUND FLOOR PLAN

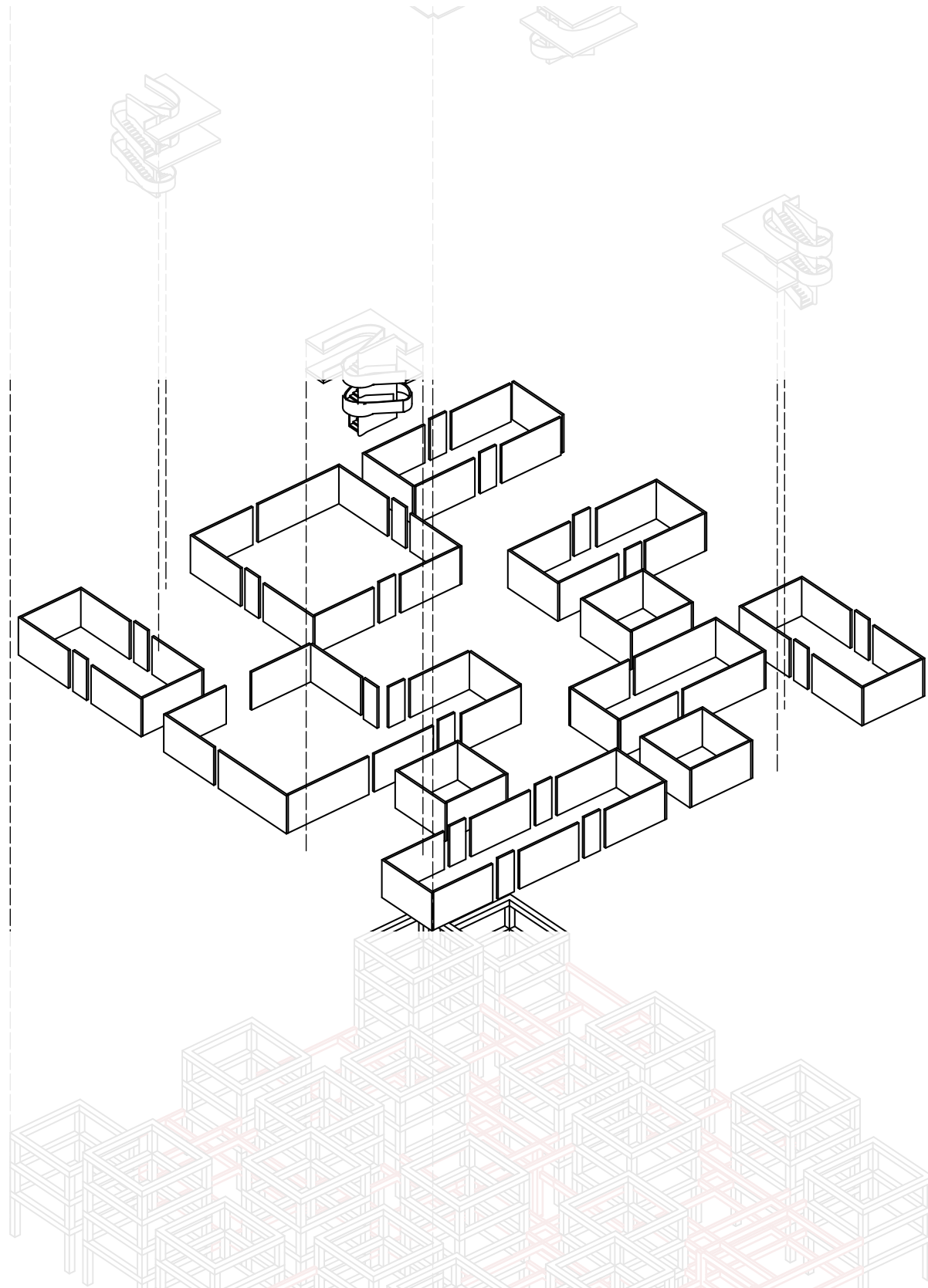




AXO DURING EVOLVING PROCESS



SKELETON of
Housing Units
&
Public Services



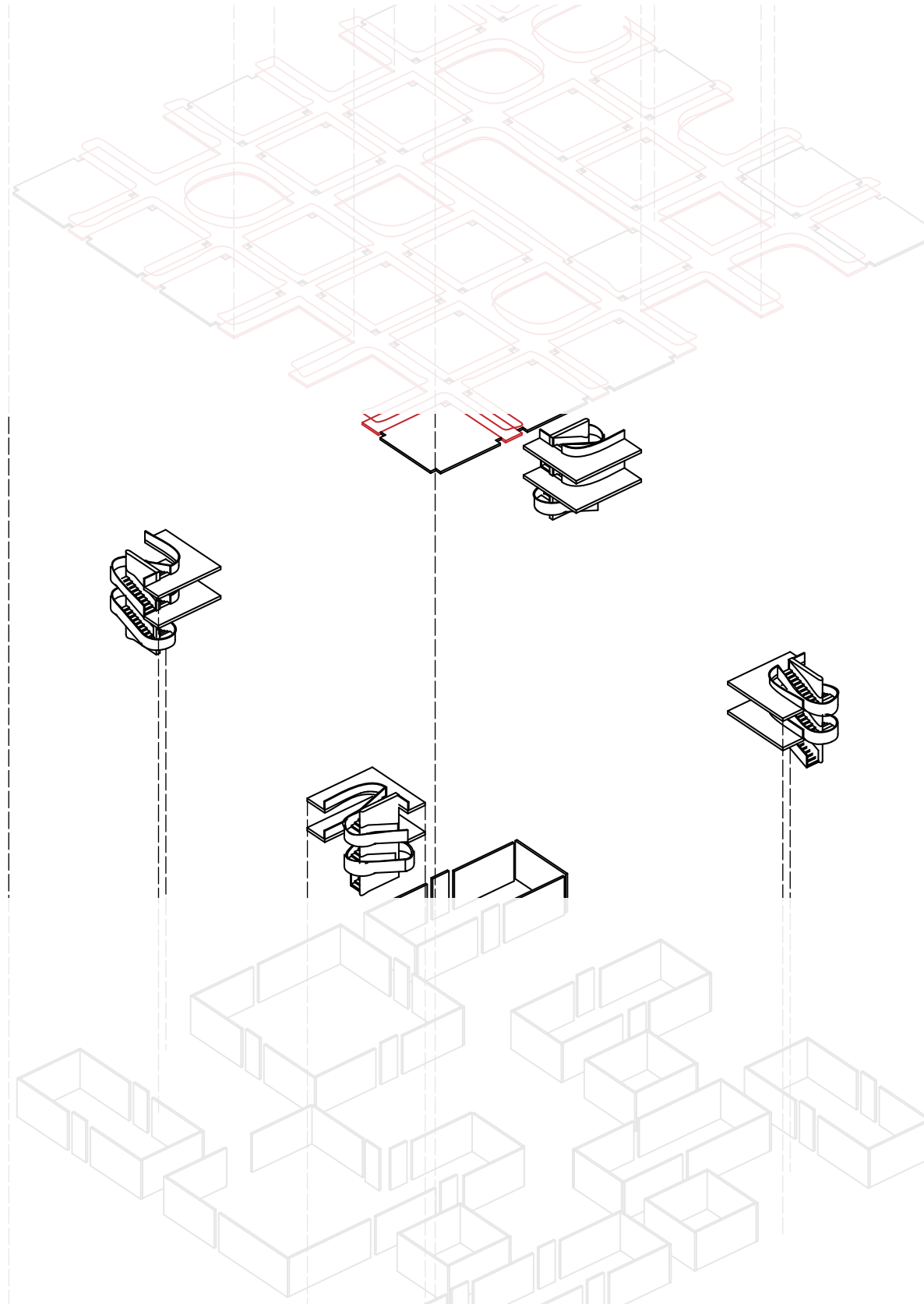
Vertical Access

GROUND FLOOR LAYOUT

Small pieces

SKELETON of

Housing Units
&
Public Services



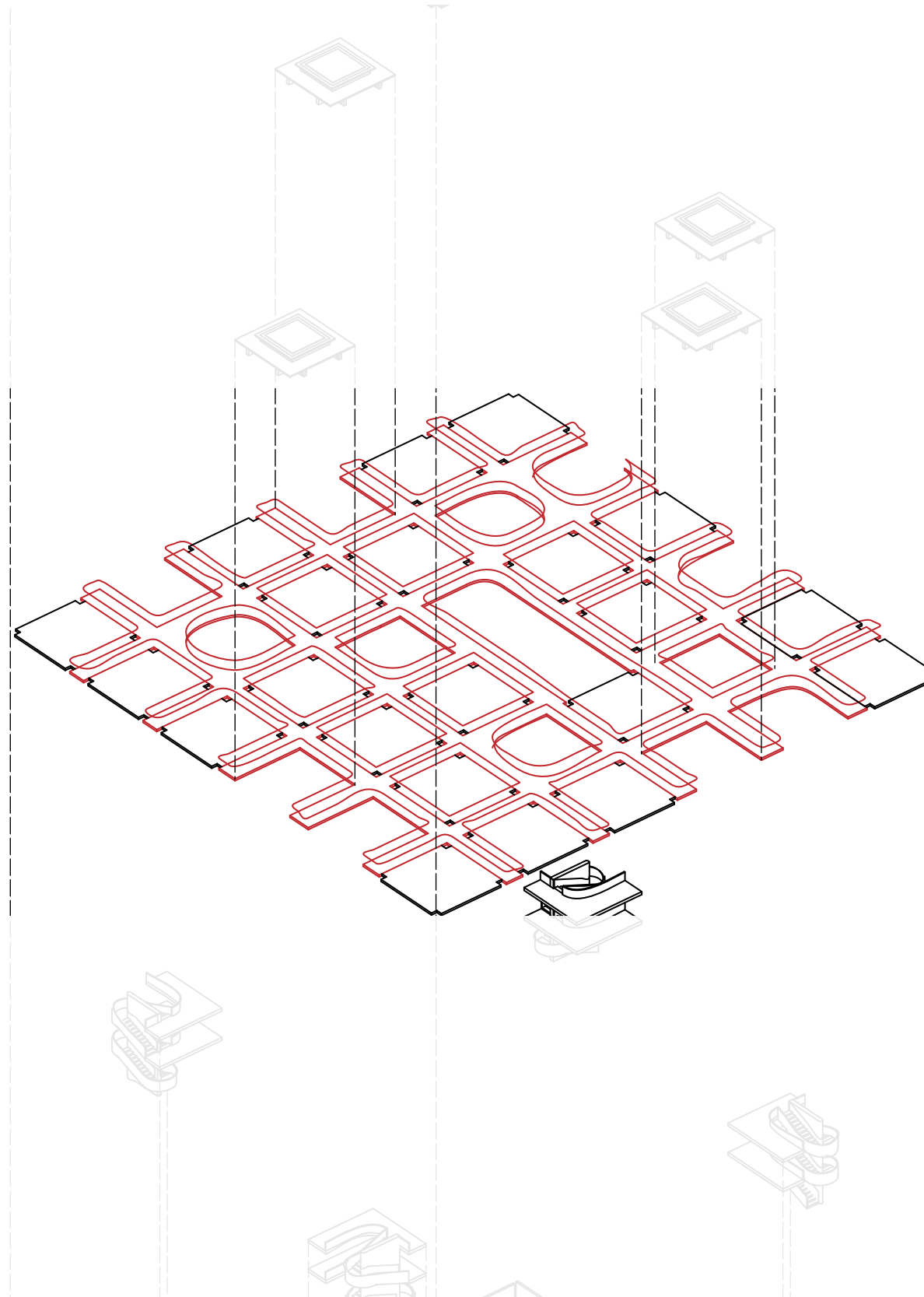
1F

Housing slab
&
Street for Connection

Vertical Access

GROUND FLOOR LAYOUT

Small pieces



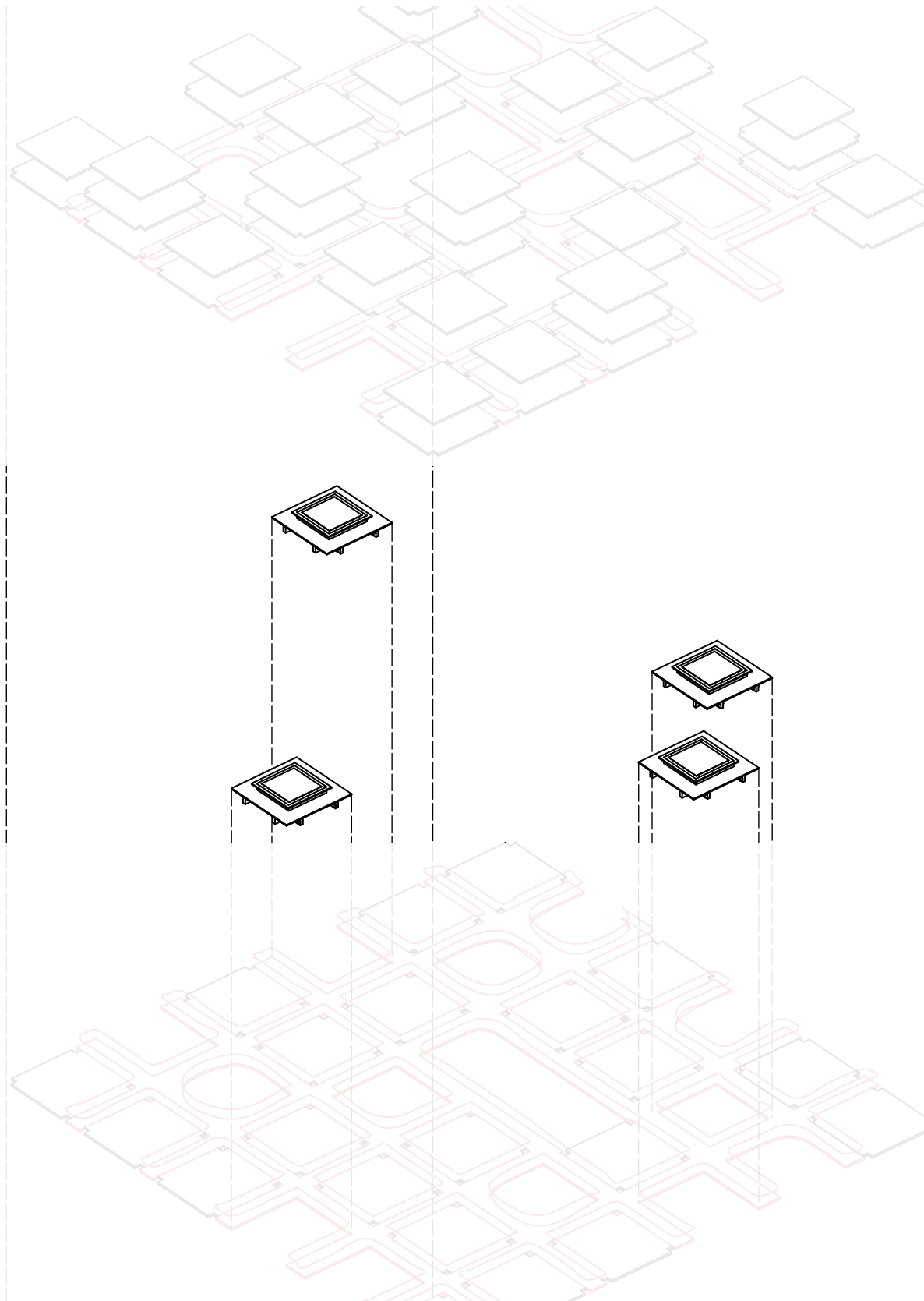
1F

Workshop skylight

1F

Housing slab
&
Street for Connection

Vertical Access



2F

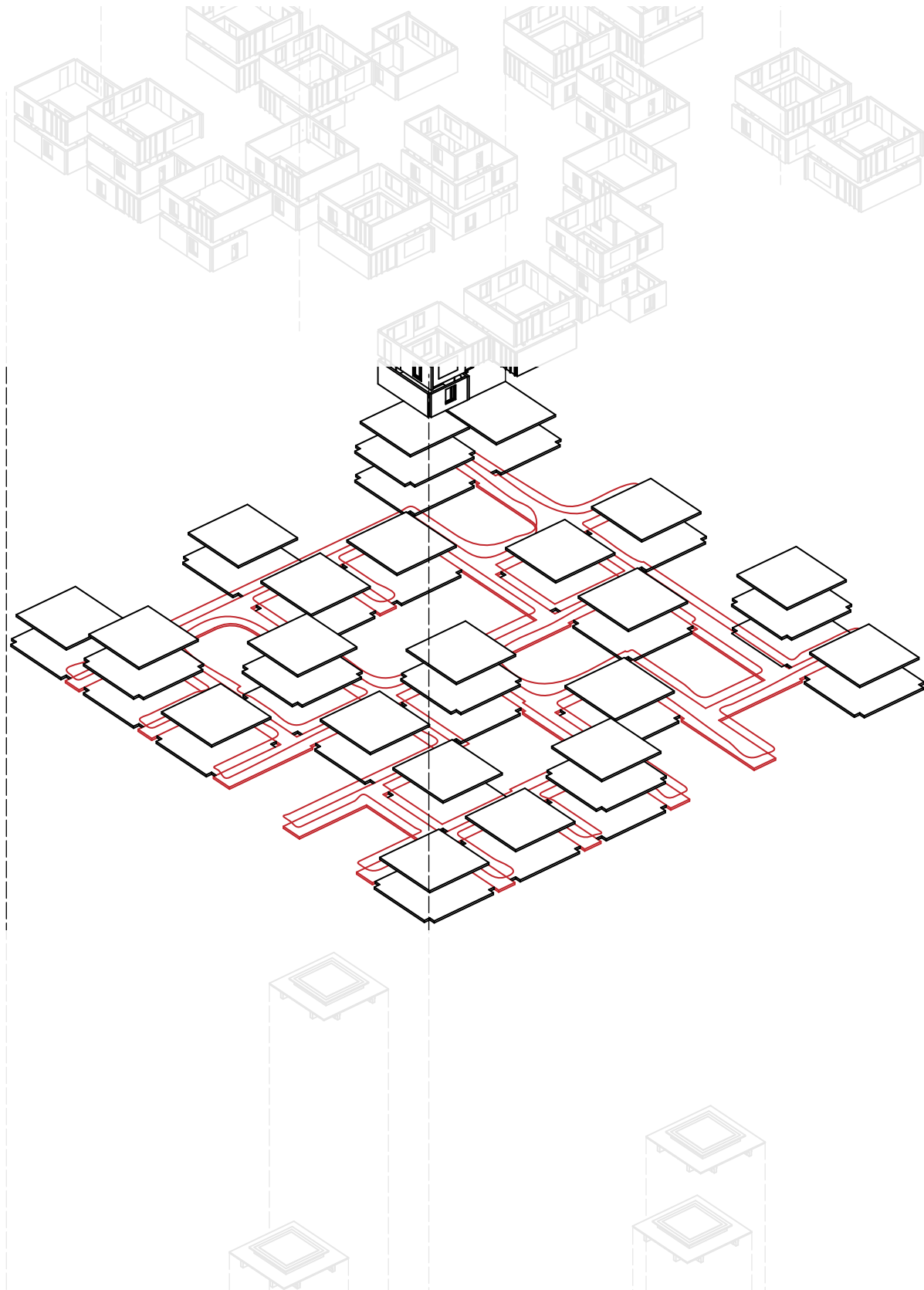
Housing slab
&
Street for Connection

1F

Workshop skylight

1F

Housing slab
&
Street for Connection



1F - 3F

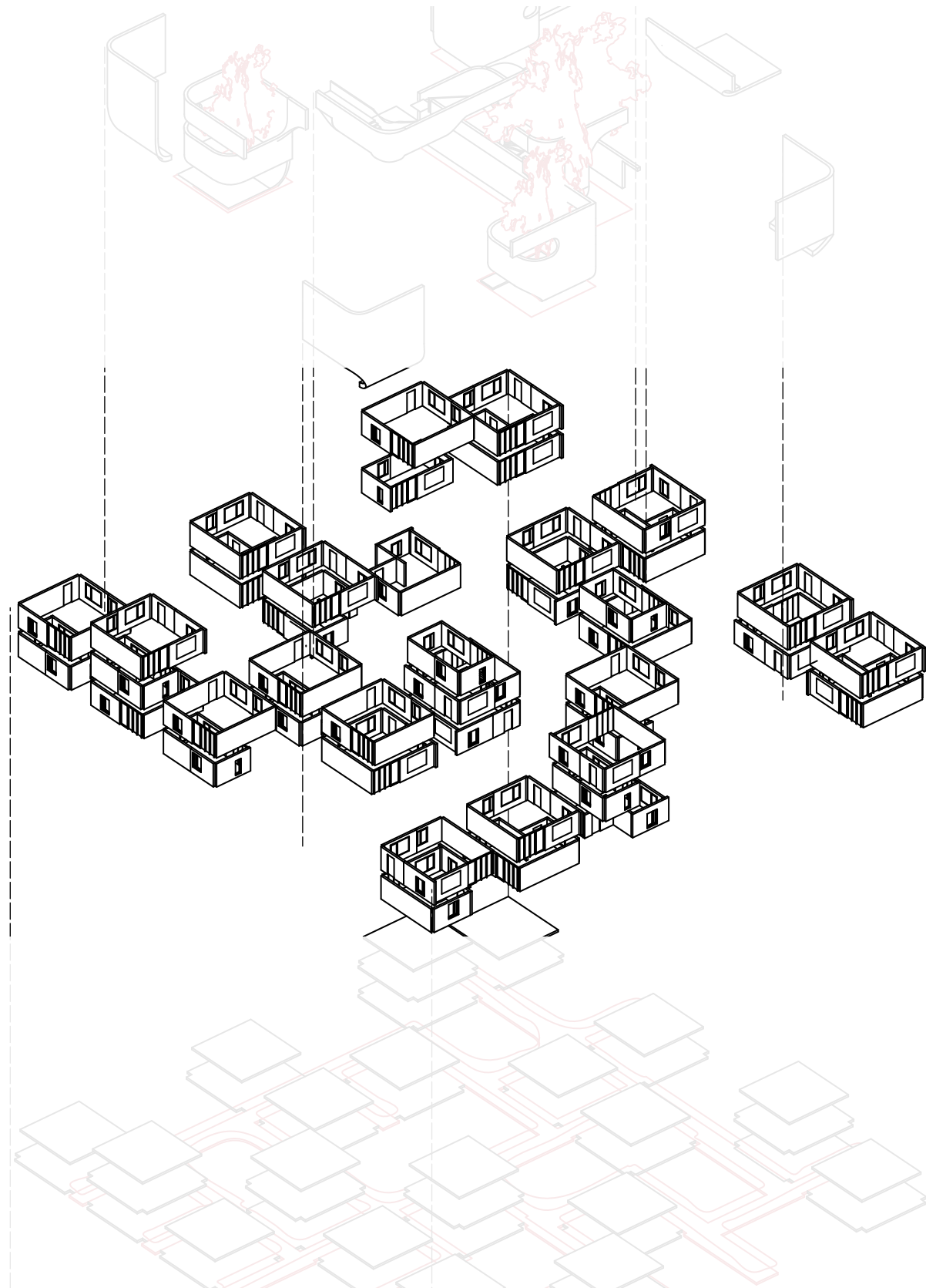
Spontaneous Housing Infillment

2F

Housing slab
&
Street for Connection

1F

Workshop skylight



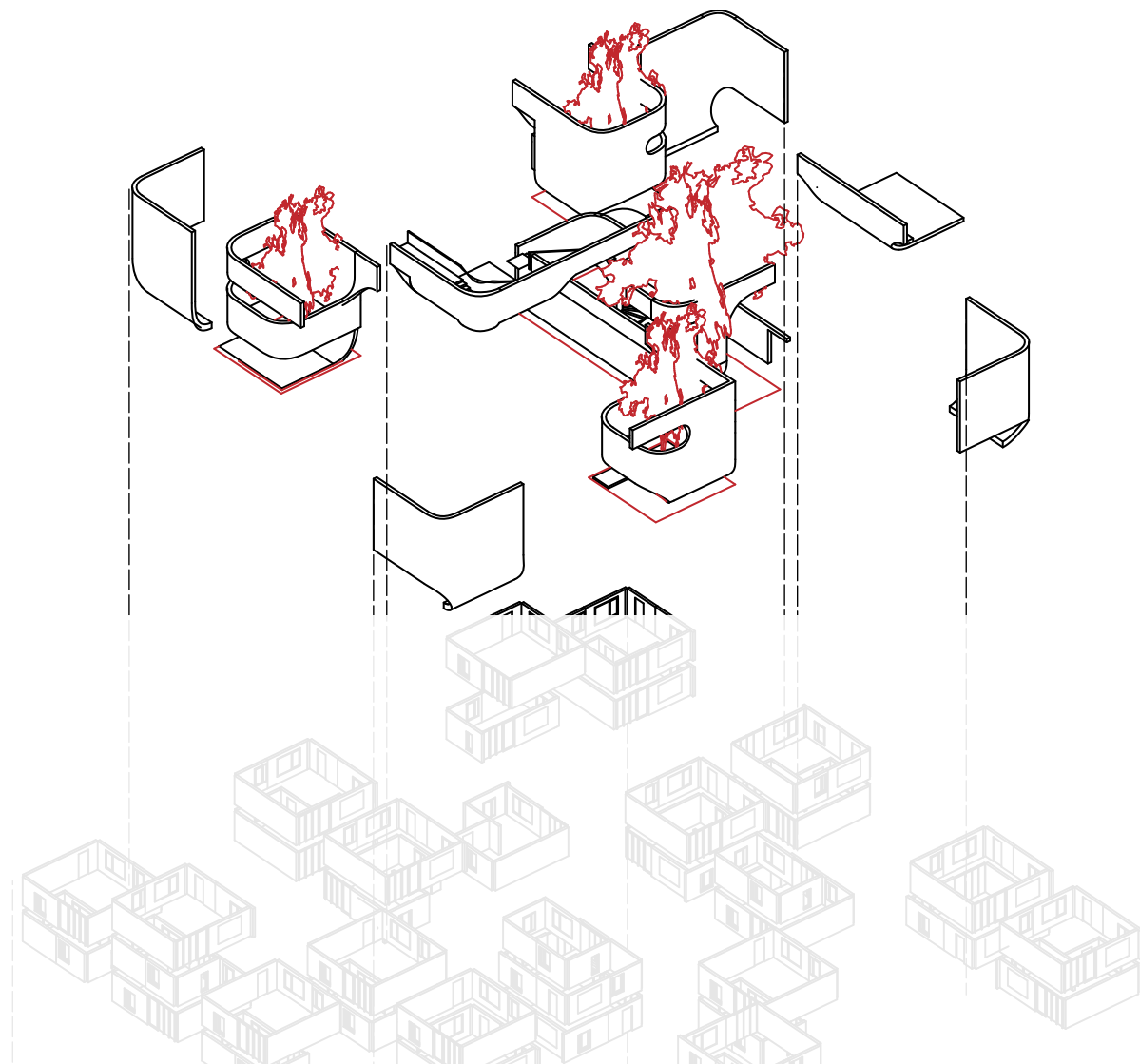
EXTERIOR SOCIAL SPACE EMBEDDED

1F - 3F

Spontaneous Housing Infillment

2F

Housing slab
&
Street for Connection



EXTERIOR SOCIAL SPACE EMBEDDED

1F - 3F

Spontaneous Housing Infillment

