

Embracing multiple ethnic groups within a smart replicable strategy that has the potential to speak for every particular matter.



PRESENTATION CONTENT



1

INTRODUCTION

- *Problem Statement*
- *Research Question*
- *Goal*



2

RESEARCH

- *Rural living*
- *Urban living*
- *Future opportunities*



3

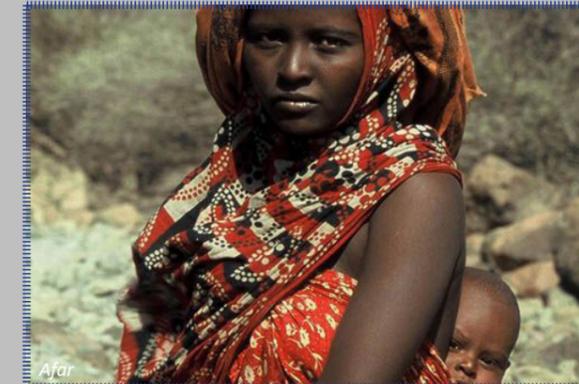
DESIGN

- *Urban strategy*
- *The building system*
- *The infill*

ETHIOPIA



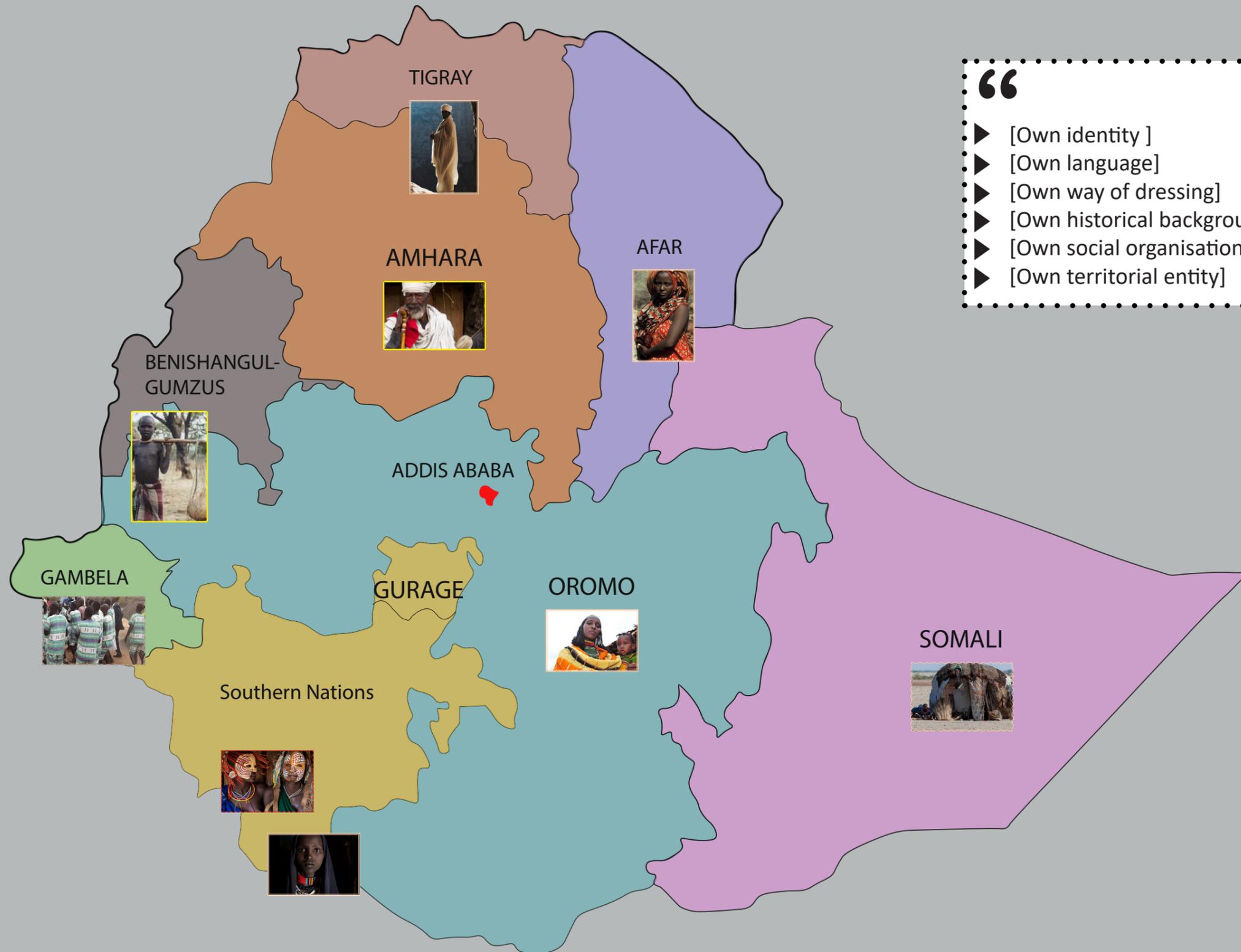
COUNTRY ETHIOPIA



One of the most ethnically and culturally diverse countries in the world in which we can count 80 different distinct ethnicities and languages.

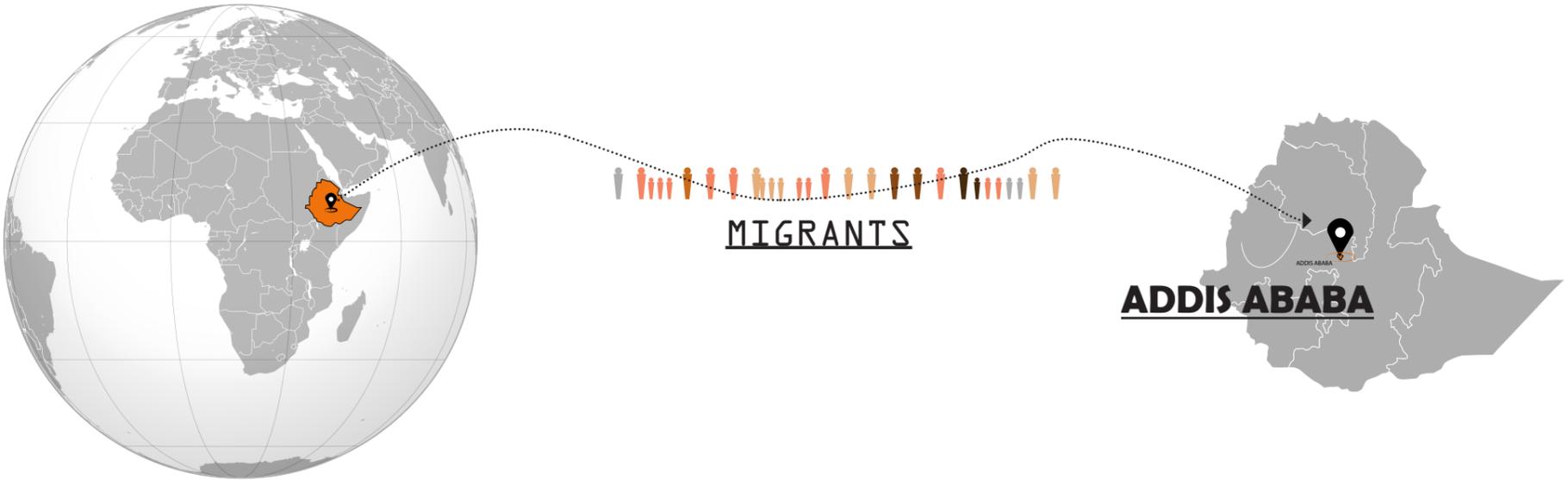
(Brittanica, 2020)

COUNTRY ETHIOPIA



- “
- ▶ [Own identity]
 - ▶ [Own language]
 - ▶ [Own way of dressing]
 - ▶ [Own historical background]
 - ▶ [Own social organisation]
 - ▶ [Own territorial entity]

INTERNAL MIGRATION



POPULATION ADDIS ABABA



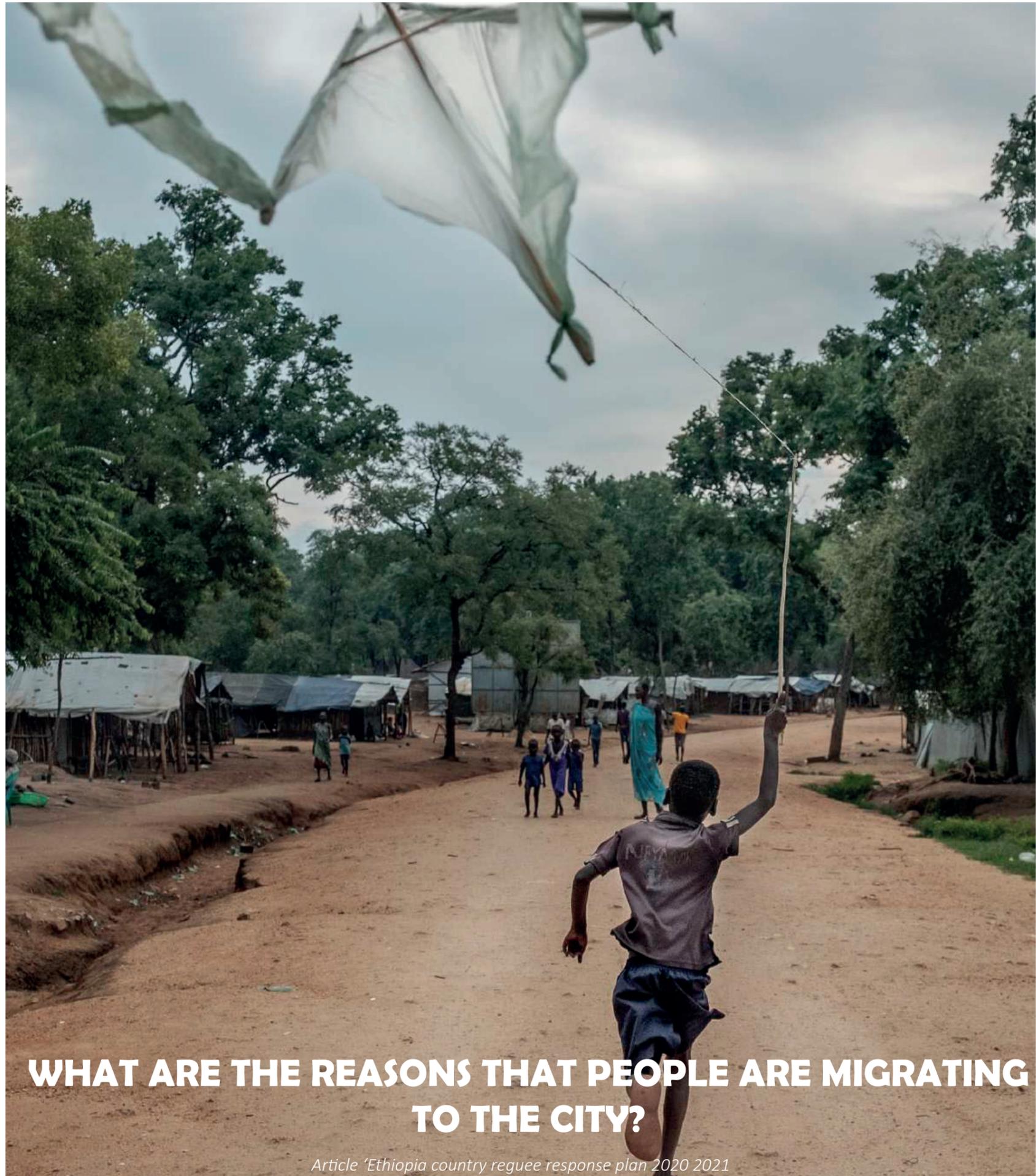
37%

MIGRANTS

+

63%

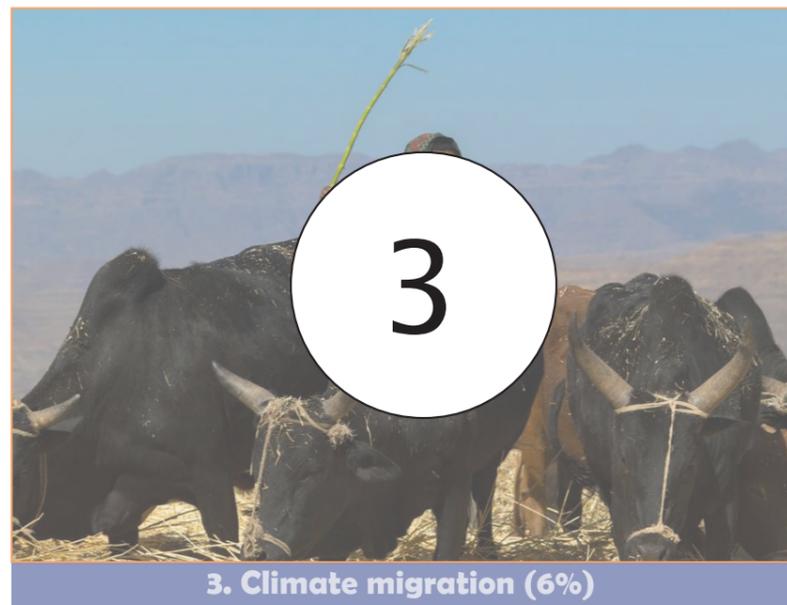
CAPITAL INHABITANTS



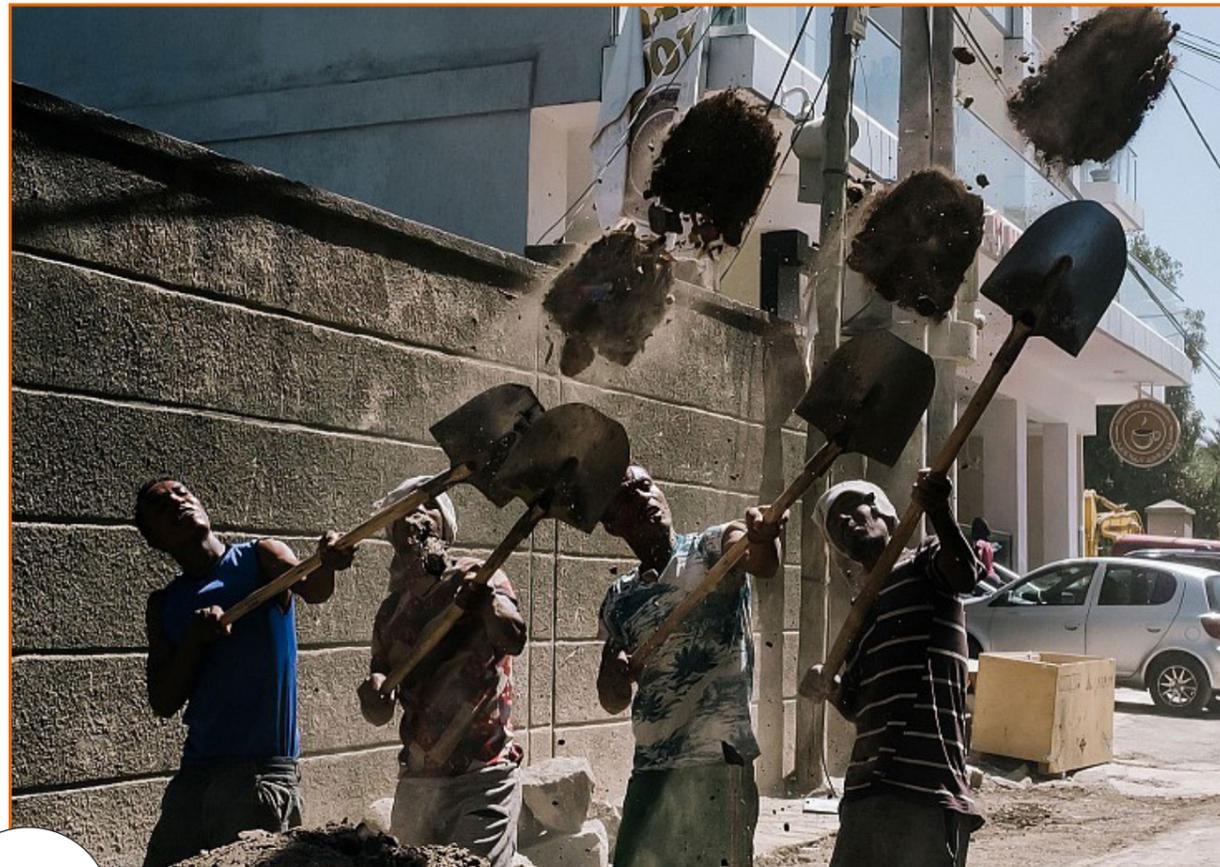
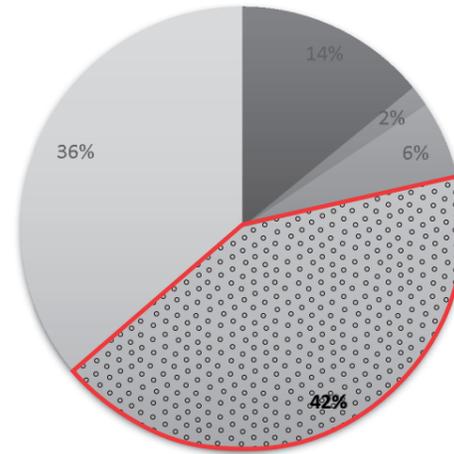
WHAT ARE THE REASONS THAT PEOPLE ARE MIGRATING TO THE CITY?

Article 'Ethiopia country refugee response plan 2020 2021

MIGRATION TRENDS



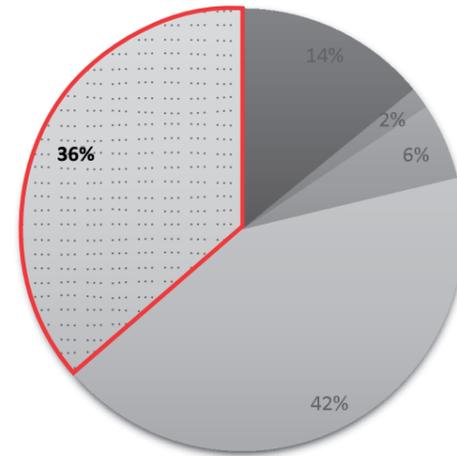
MIGRATION TRENDS SEARCH FOR WORK



1

Search for work (42%)

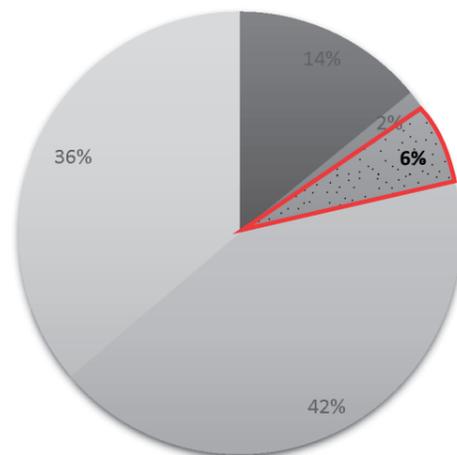
MIGRATION TRENDS SEARCH FOR EDUCATION



2

2. Search for education (36%)

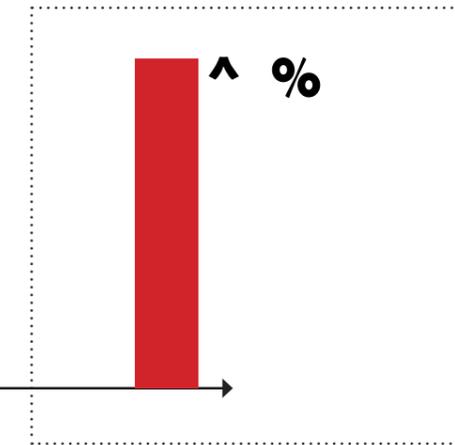
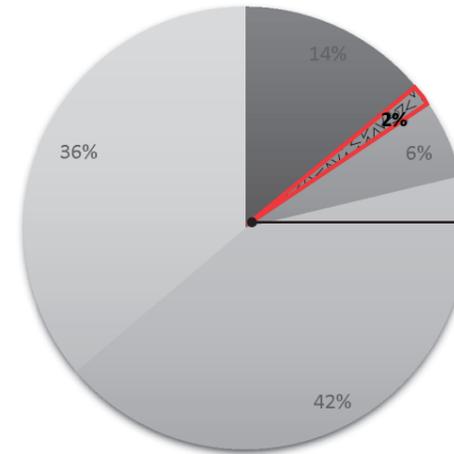
MIGRATION TRENDS CLIMATE MIGRATION



3

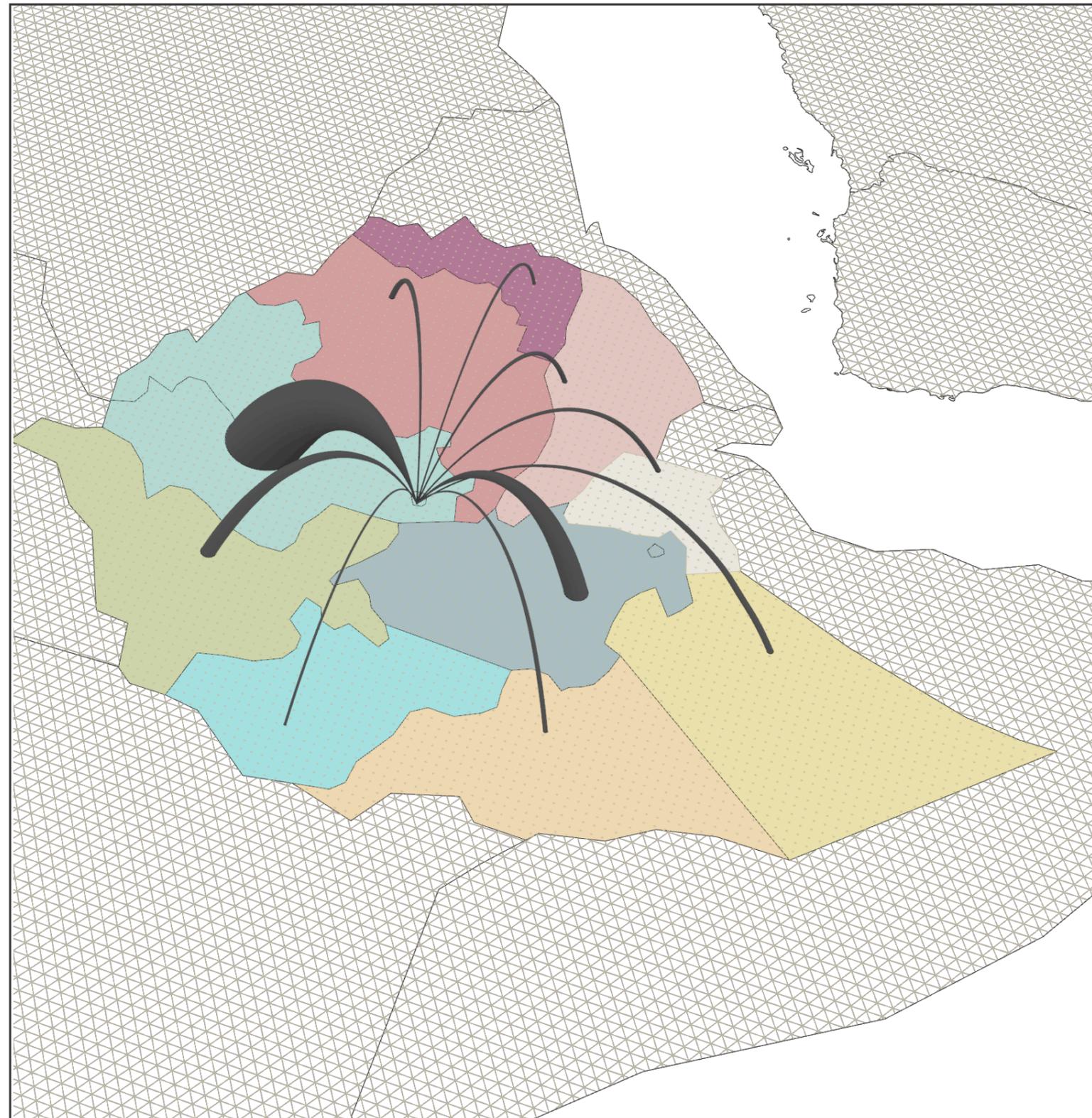
3. Climate migration (6%)

MIGRATION TRENDS WAR / ETHNIC CONFLICTS



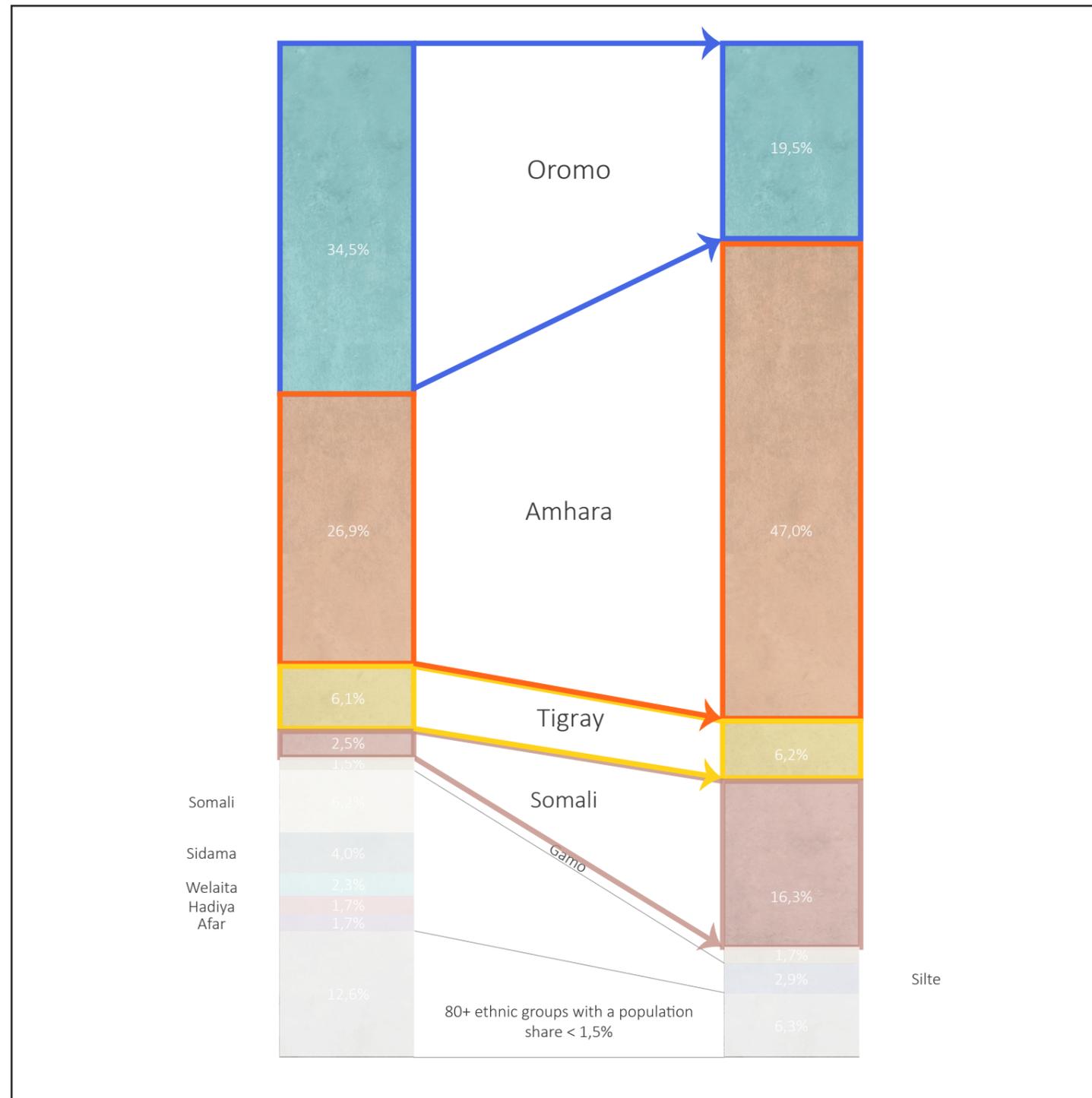
4

4. War / ethnic conflicts (2%)



WHO IS MIGRATING TO THE CITY?

Internal Migration Flows, WorldPop, 2008



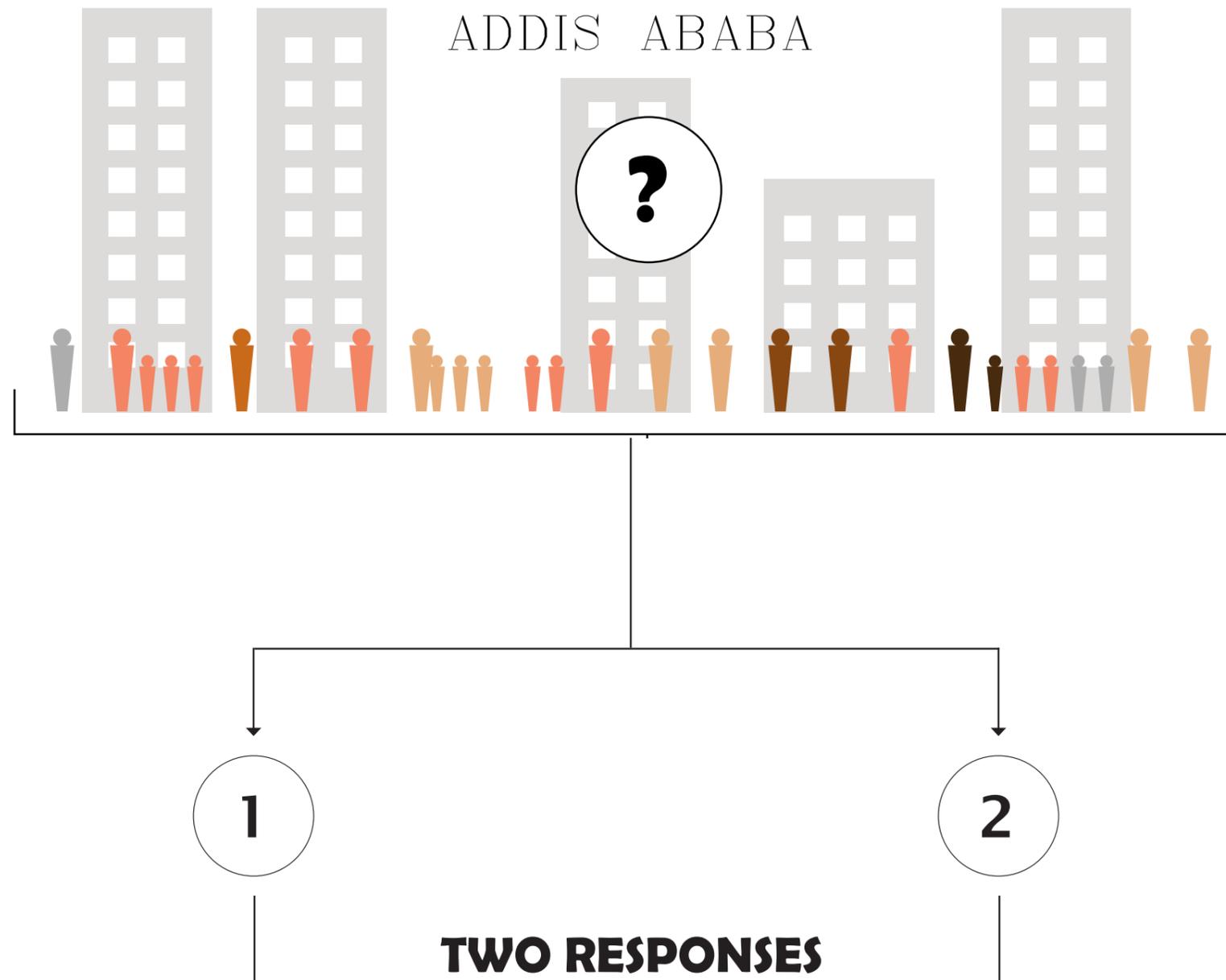
1. Federal democratic republic of Ethiopia population census commission, 2008



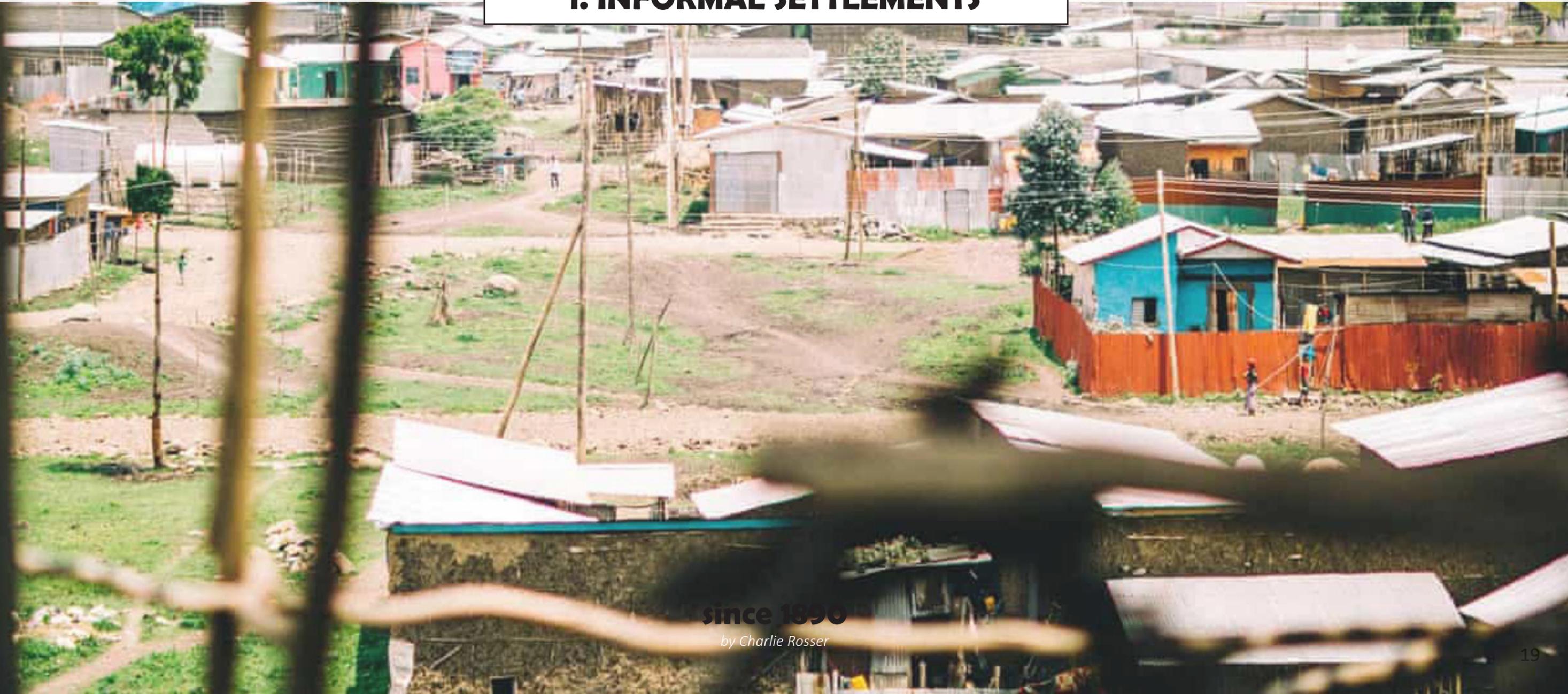
How has this affected the developments of Addis Ababa in the past 20 years?

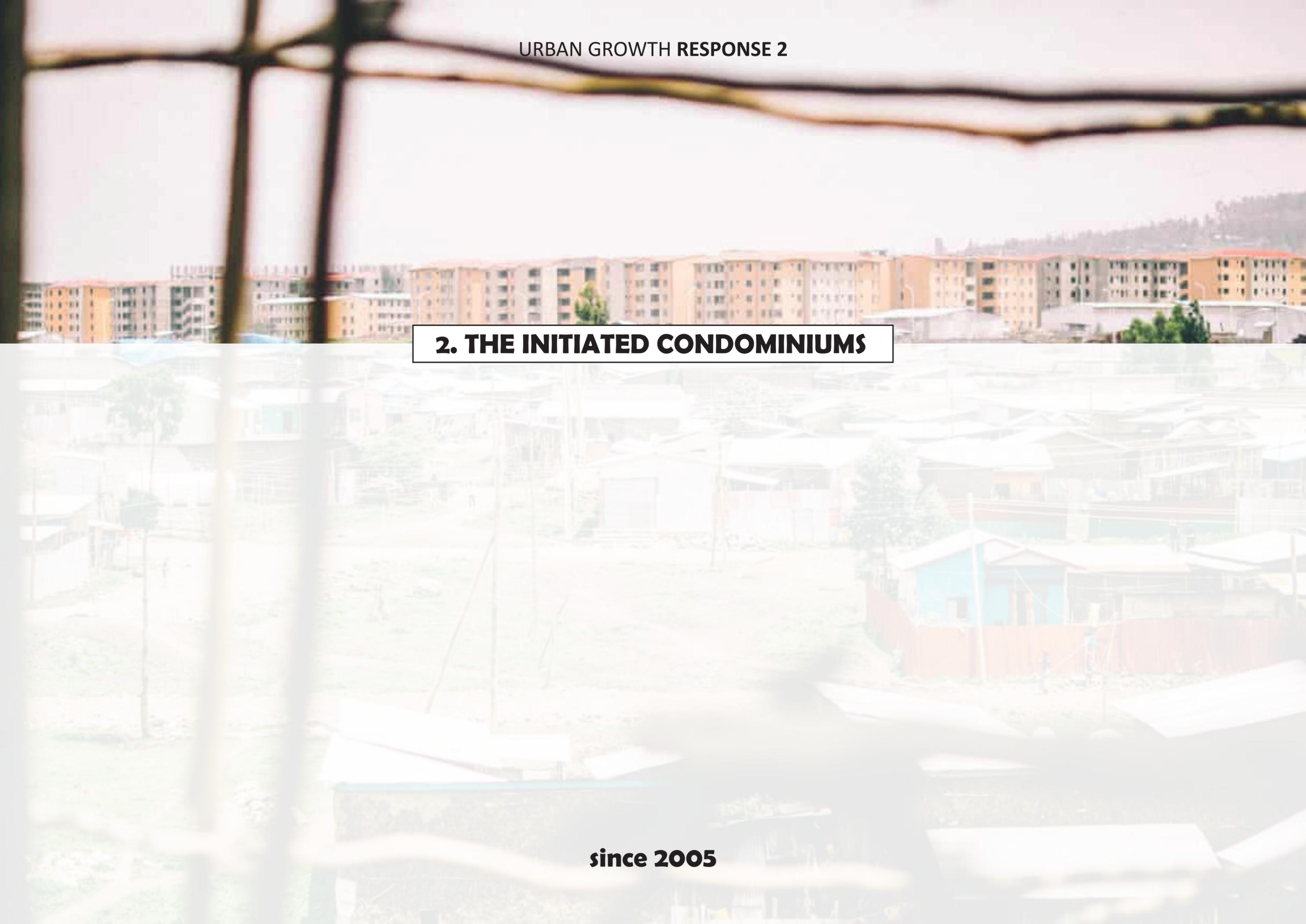
photo by Philipp Heubner

ADDIS ABABA URBAN GROWTH INITIATIVES



1. INFORMAL SETTLEMENTS





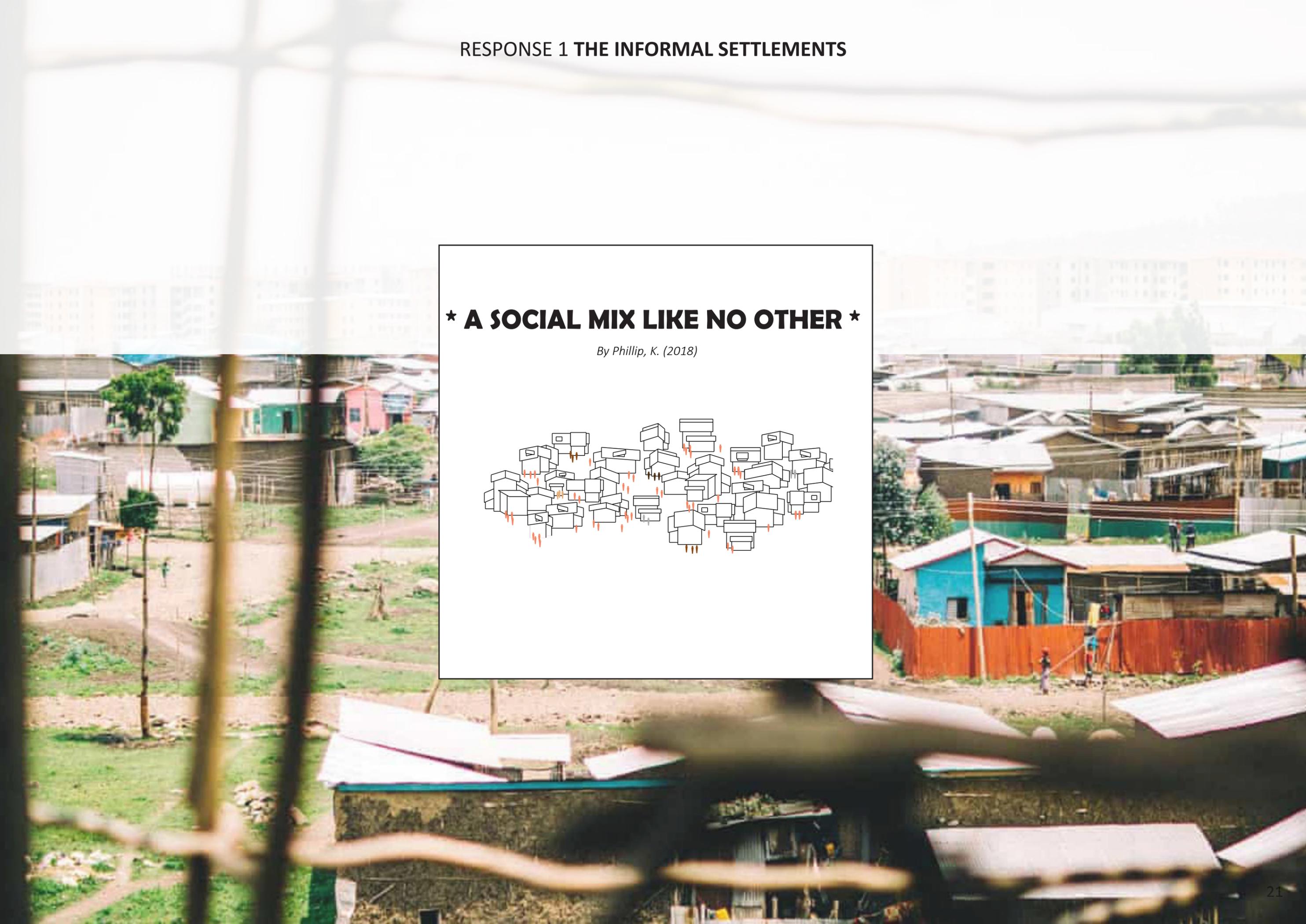
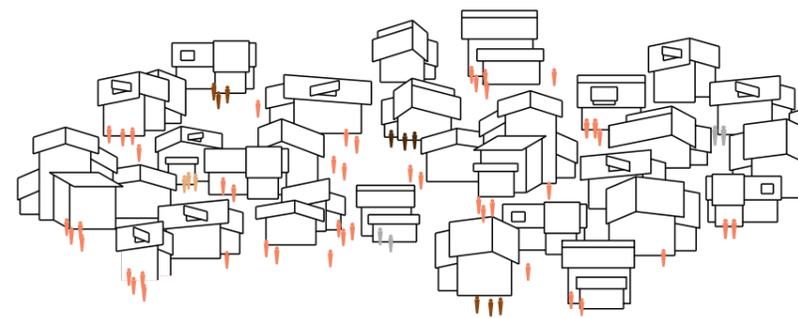
2. THE INITIATED CONDOMINIUMS

since 2005

RESPONSE 1 THE INFORMAL SETTLEMENTS

★ A SOCIAL MIX LIKE NO OTHER ★

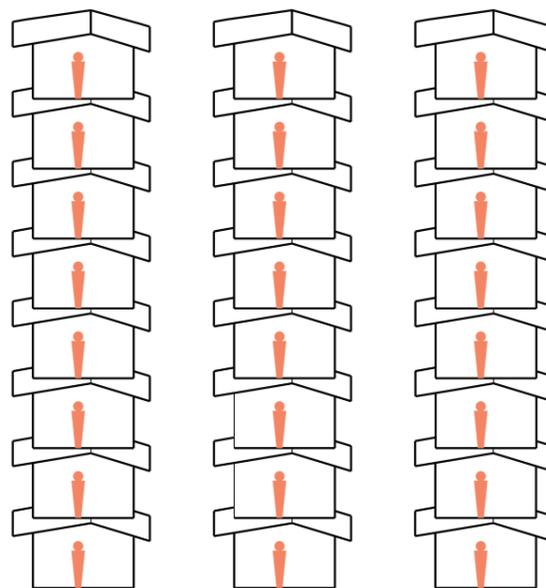
By Phillip, K. (2018)



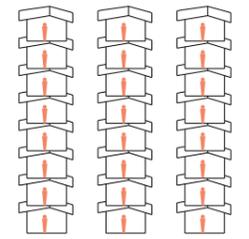
RESPONSE 2 THE INITIATED CONDOMINIUMS

* A STACKED, ANONYMOUS WORLD *

Gardner, T. (2017)



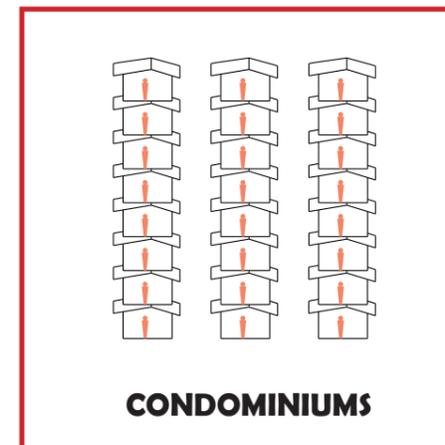
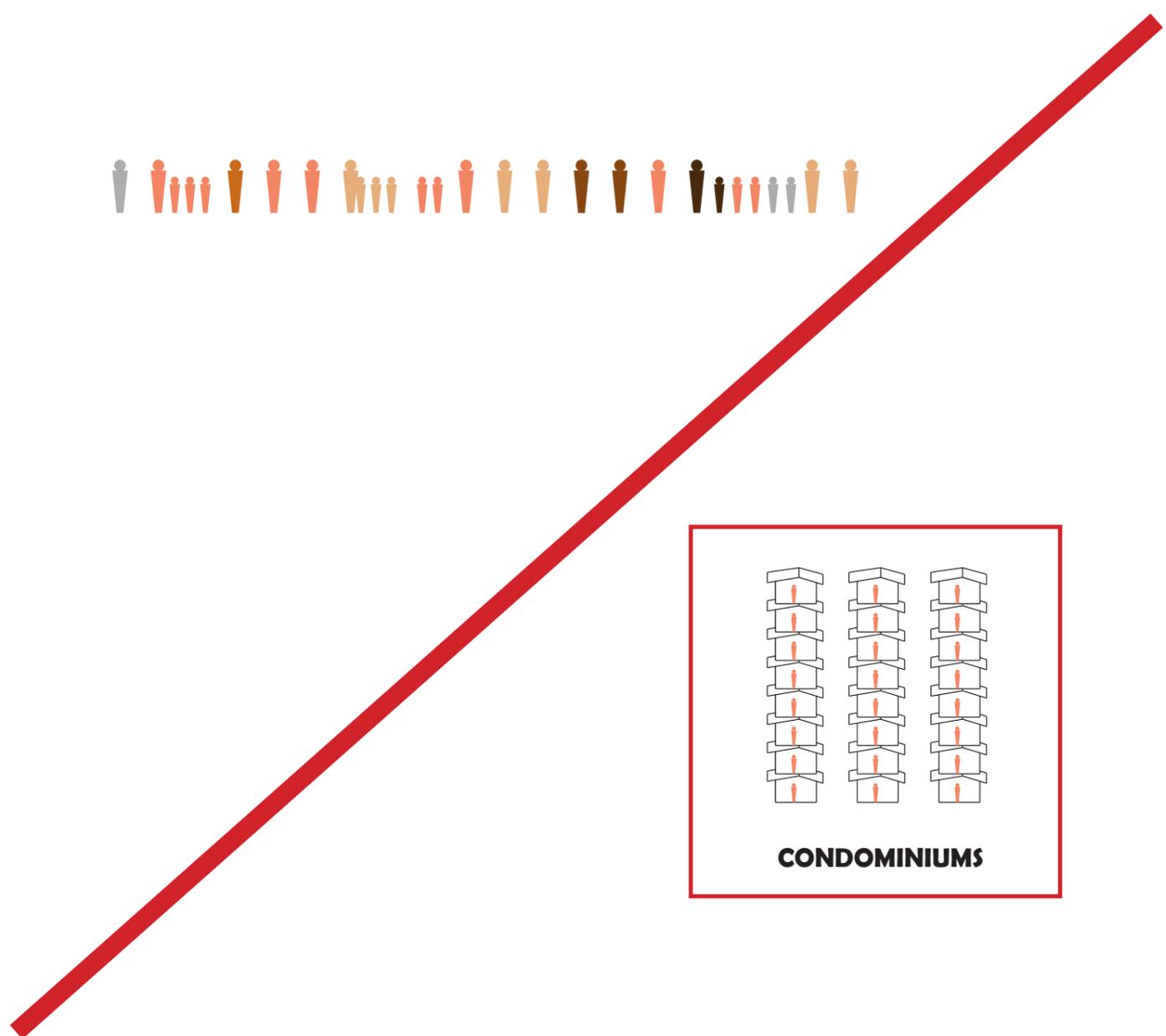
NOWADAYS SOLUTION?



CONDOMINIUMS

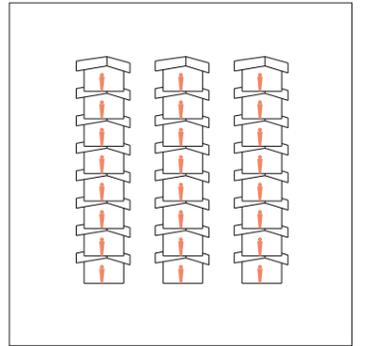
So is the current initiated condominium scheme the right architecture to facilitate all those people, coming from all over the country to the city?

PROBLEM STATEMENT



The initiated condominiums have caused a MISMATCH between the ARCHITECTURAL approach and the ANTHROPOLOGICAL FEATURES, LIFESTYLES and ASPIRATIONS of the inhabitants themselves.

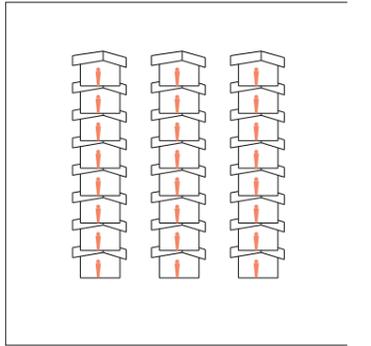
PROBLEM STATEMENT FRIGHTENING



“Even though we are more people living closer and more connected than ever, we feel more lonely, anxious and stressed.”

by Gardner, T.

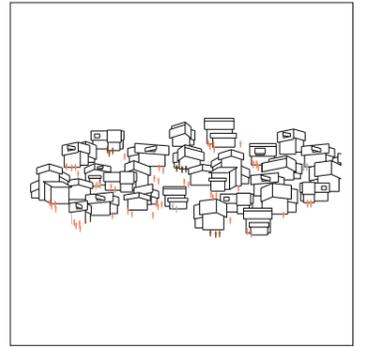
PROBLEM STATEMENT RISK OF LOSING THEIR IDENTITY



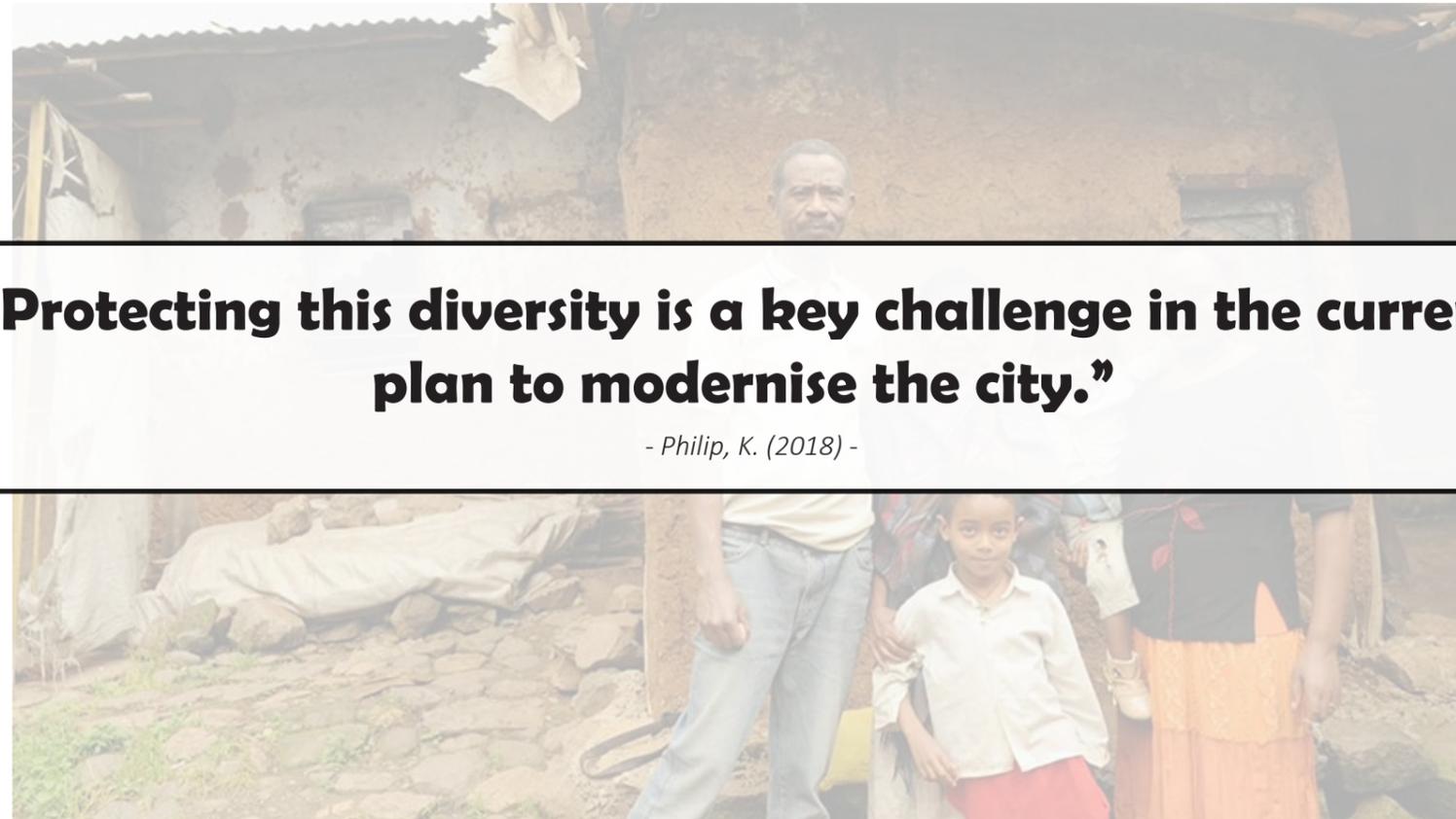
“We have neither a dream nor an imagination.”

by Kidanu, I. (1999)

GOAL MIXITY



Why is this relevant today?



“Protecting this diversity is a key challenge in the current plan to modernise the city.”

- Philip, K. (2018) -

[RESEARCH QUESTION]

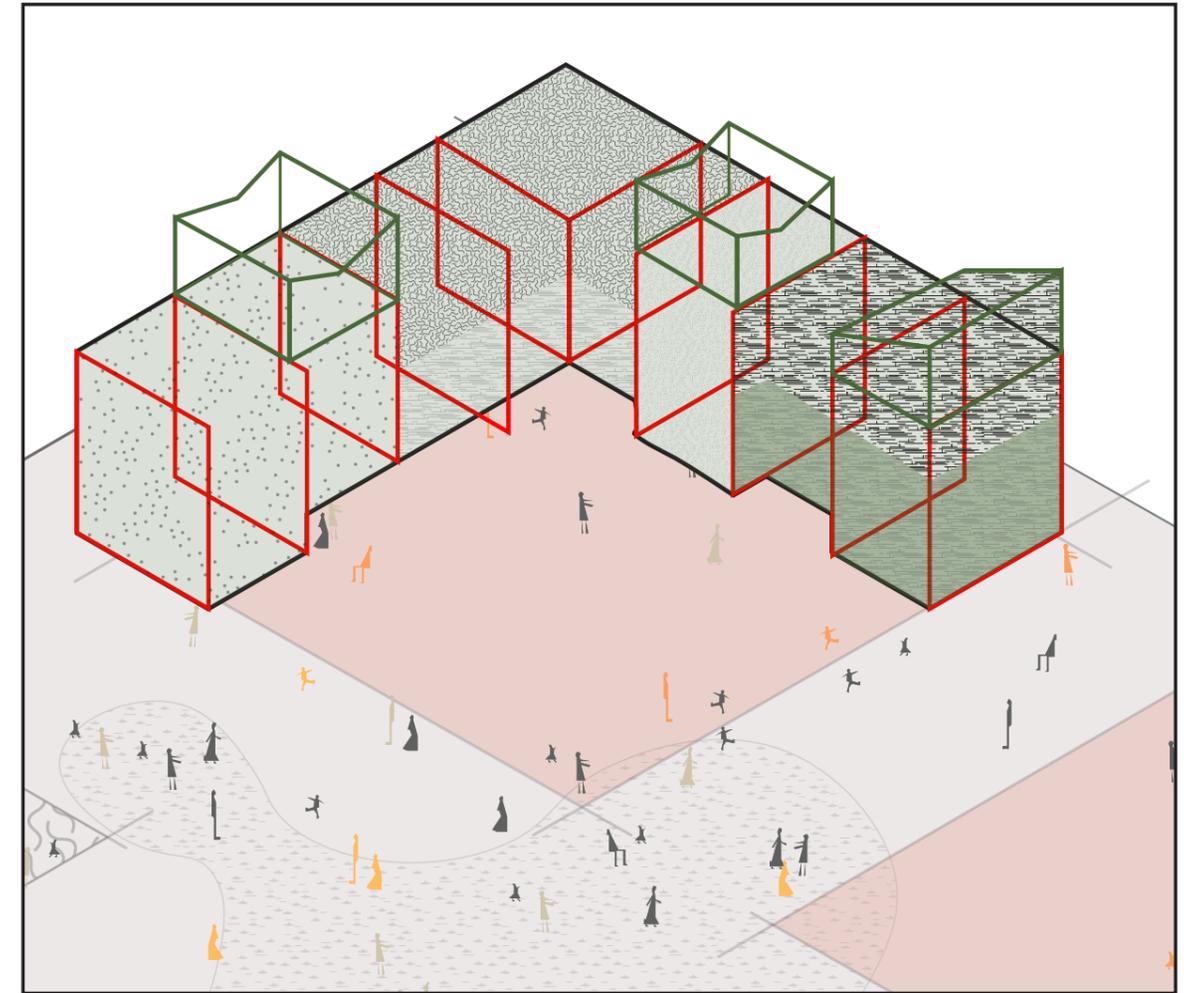
How could we reach a design that implements the aspirations of the inhabitants of Ethiopia, while avoiding romanticization and introducing an innovative way of urban mix for Addis Ababa?

THE DESIGN GOAL

PROBLEM STATEMENT



SOLUTION



WHAT? : *REDRESS THE MISMATCH*

**HOW? : DECODE their ASPIRATIONS
and FACILITATE them in the future
way of living**



INTRODUCTION

- *Problem Statement*
- *Research Question*



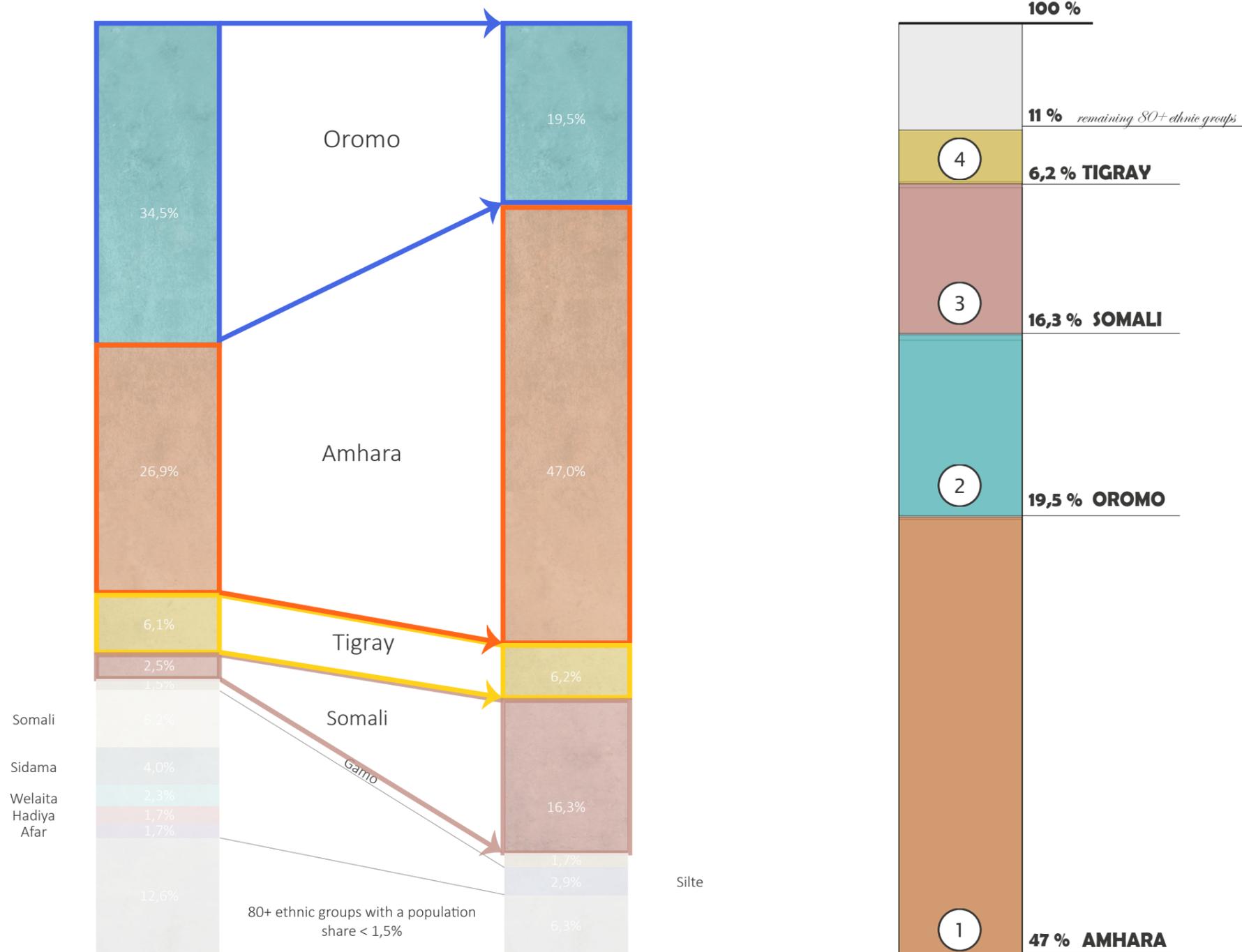
RESEARCH

- *Rural living*
- *Urban living*
- *Future opportunities*



DESIGN

- *Urban strategy*
- *The building system*
- *The infill*



(Federal democratic republic of Ethiopia population census commission, 2008)

RURAL LIVING



1. AMHARA



2. OROMO



3. TIGRAY



4. SOMALI

URBAN LIVING

1. RURAL LIVING



1. AMHARA



2. OROMO



3. TIGRAY



4. SOMALI

2. URBAN LIVING



FAMILY 1



FAMILY 2

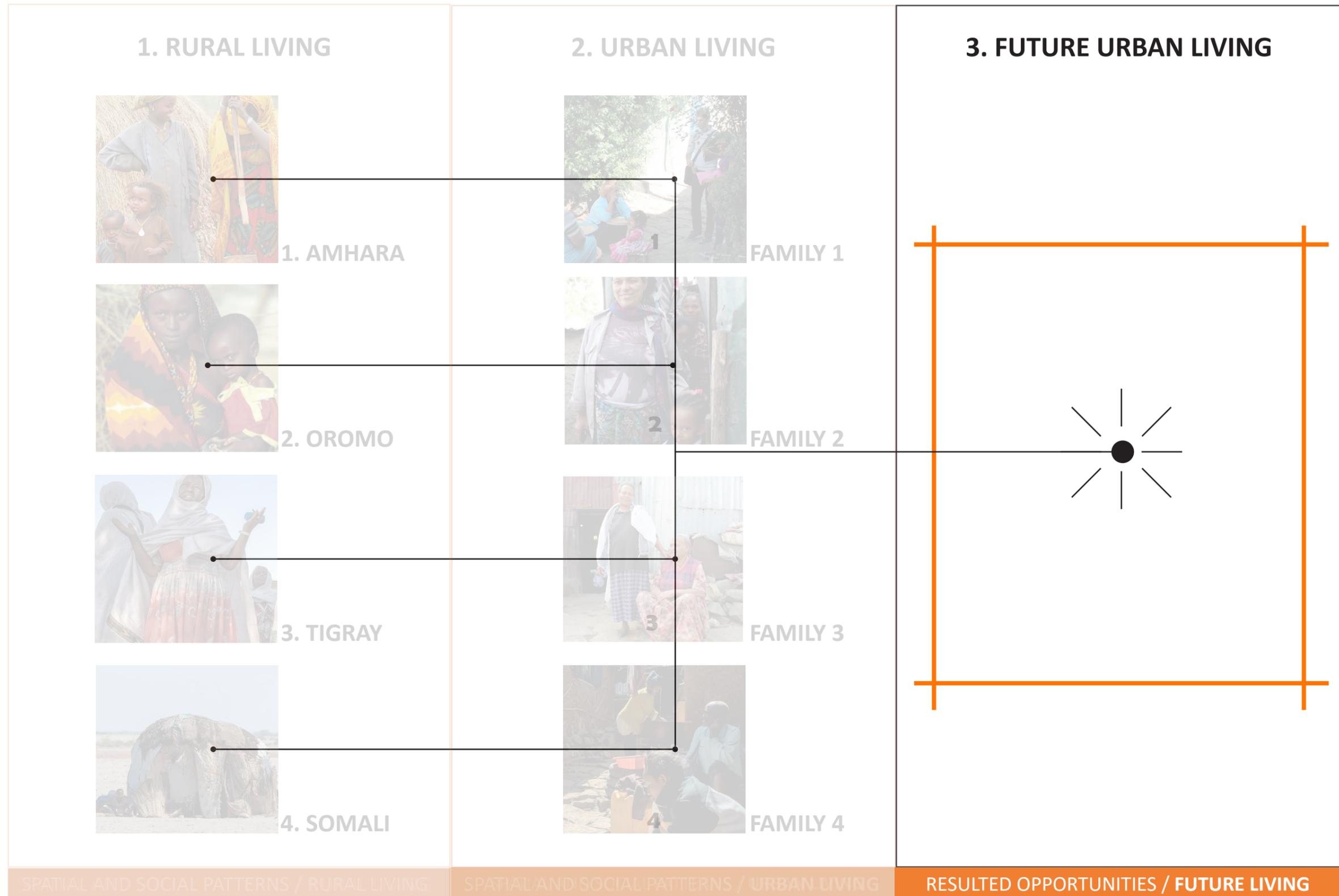


FAMILY 3



FAMILY 4

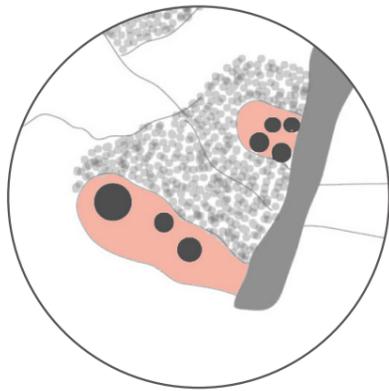
FUTURE LIVING



RESEARCH THE IN-BETWEEN SPACE



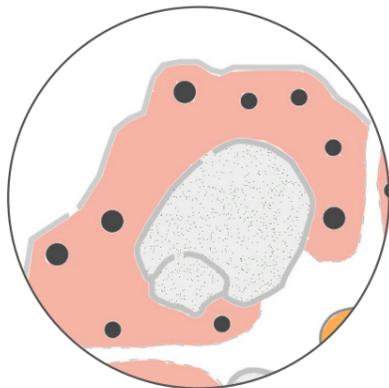
1. AMHARA



2. OROMO

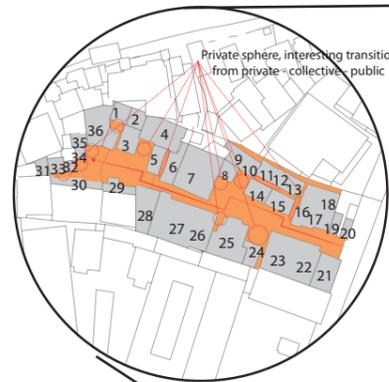


3. TIGRAY

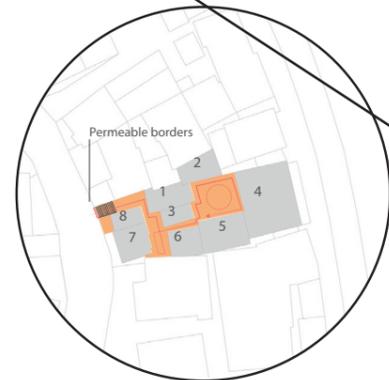


4. SOMALI

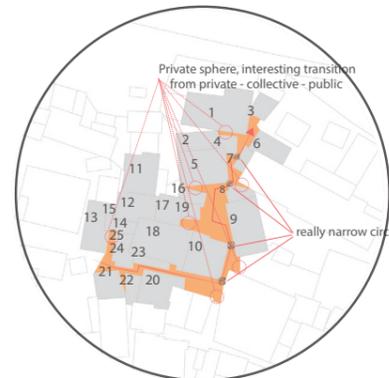
RURAL LIVING



FAMILY 1



FAMILY 2



FAMILY 3

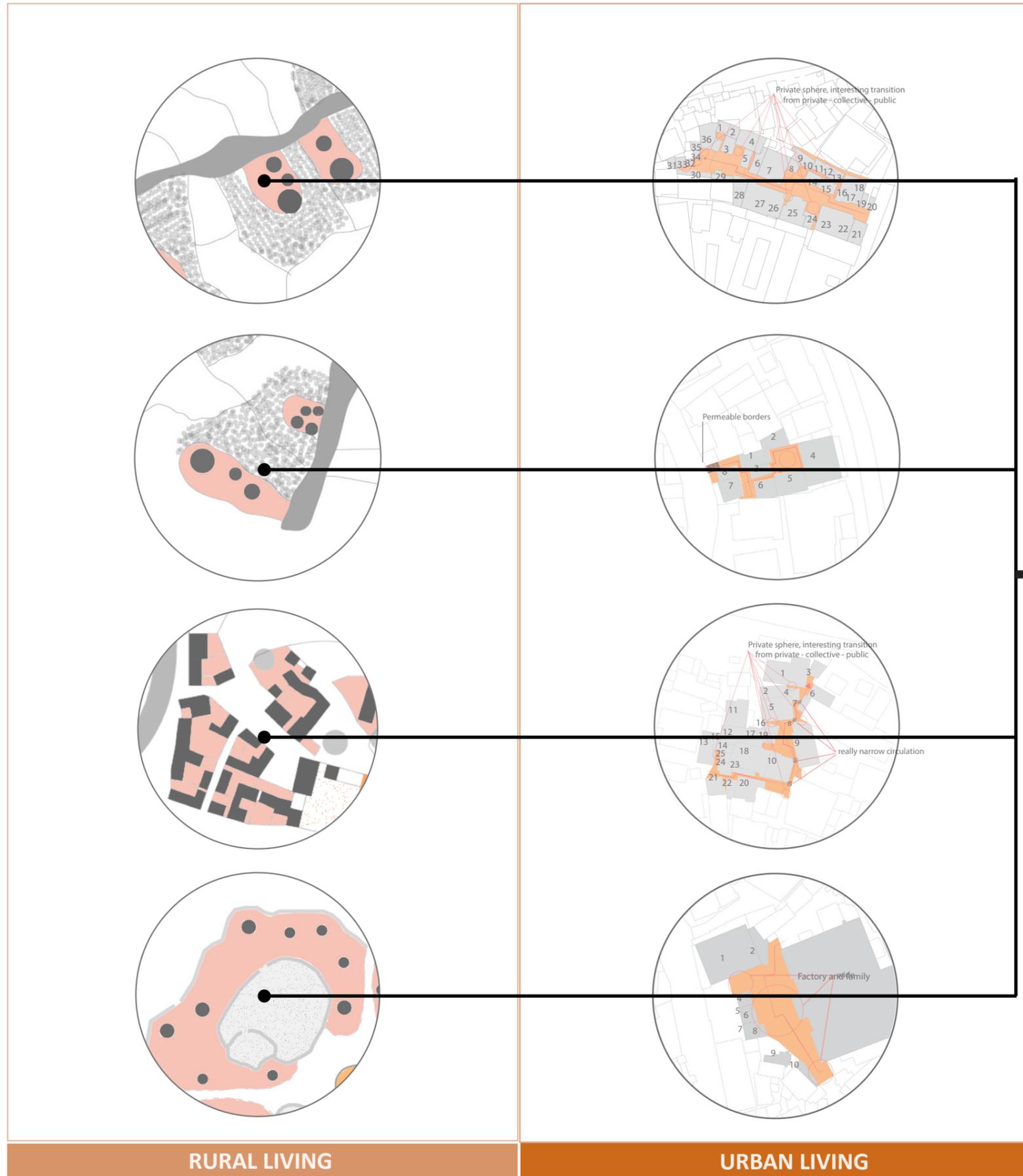


FAMILY 4

URBAN LIVING



RESEARCH THE IN-BETWEEN SPACE



RURAL LIVING

URBAN LIVING

1. SCALE AND COLLECTIVE SPACE

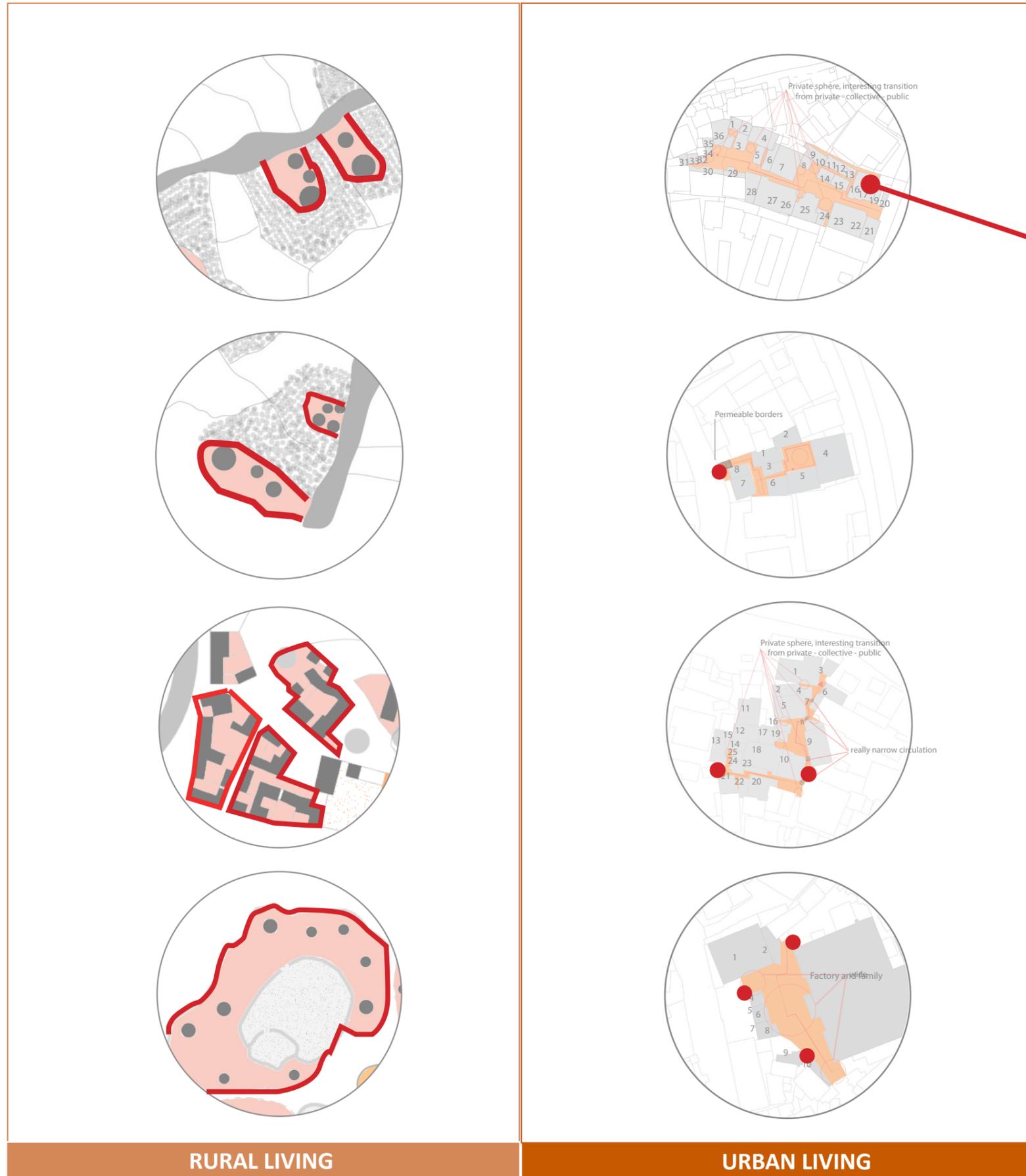
● **MAX 33 households**

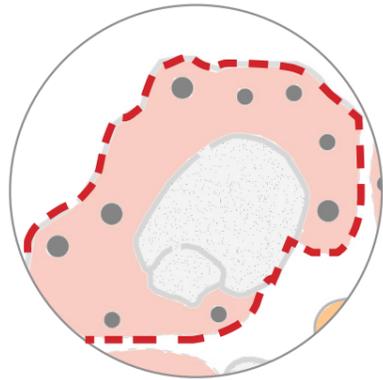
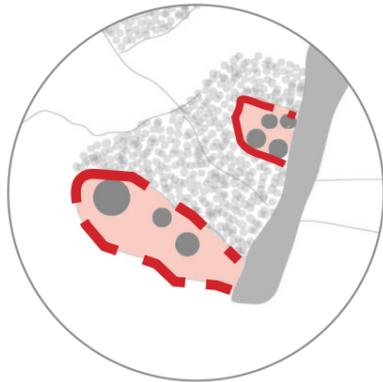
9,8 m²
per household

2. ACTIVITY

DOMESTIC ACTIVITIES.

RESEARCH THE BORDERED COMPOUND



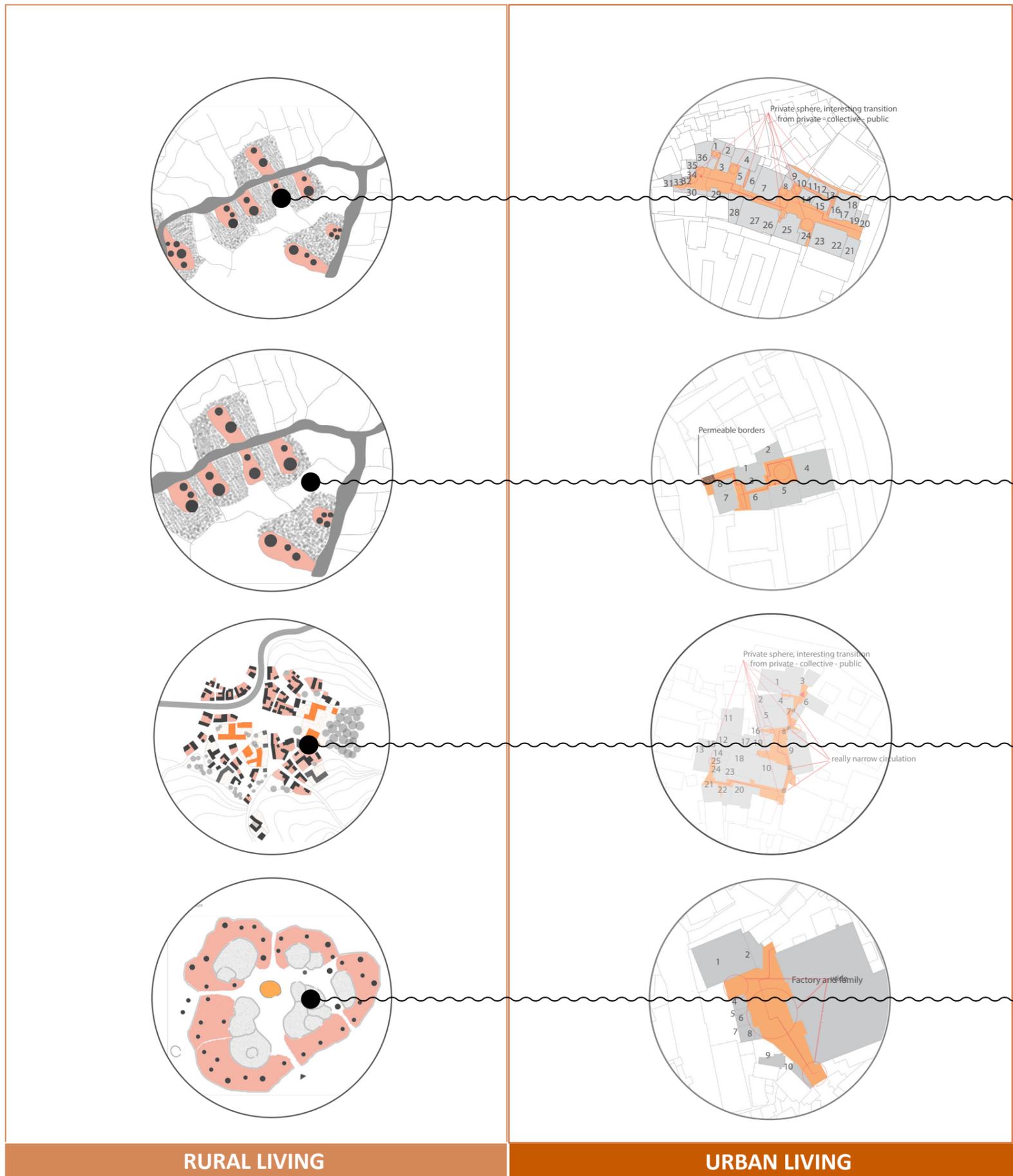


RURAL LIVING

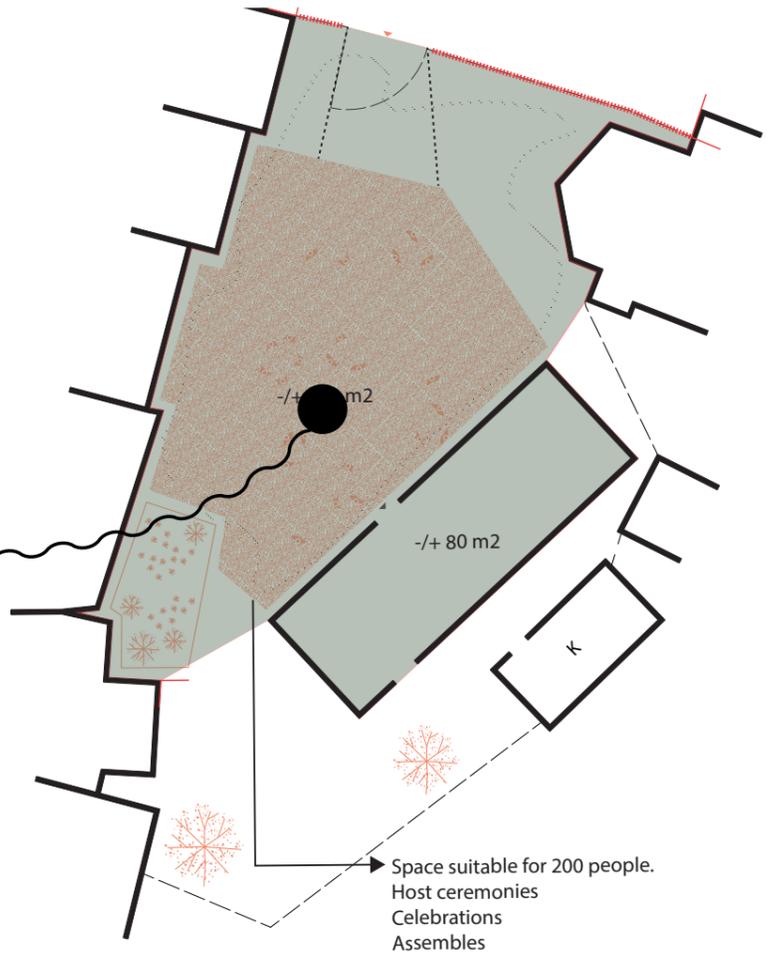


URBAN LIVING

... When the strict borders starting to get looser ...



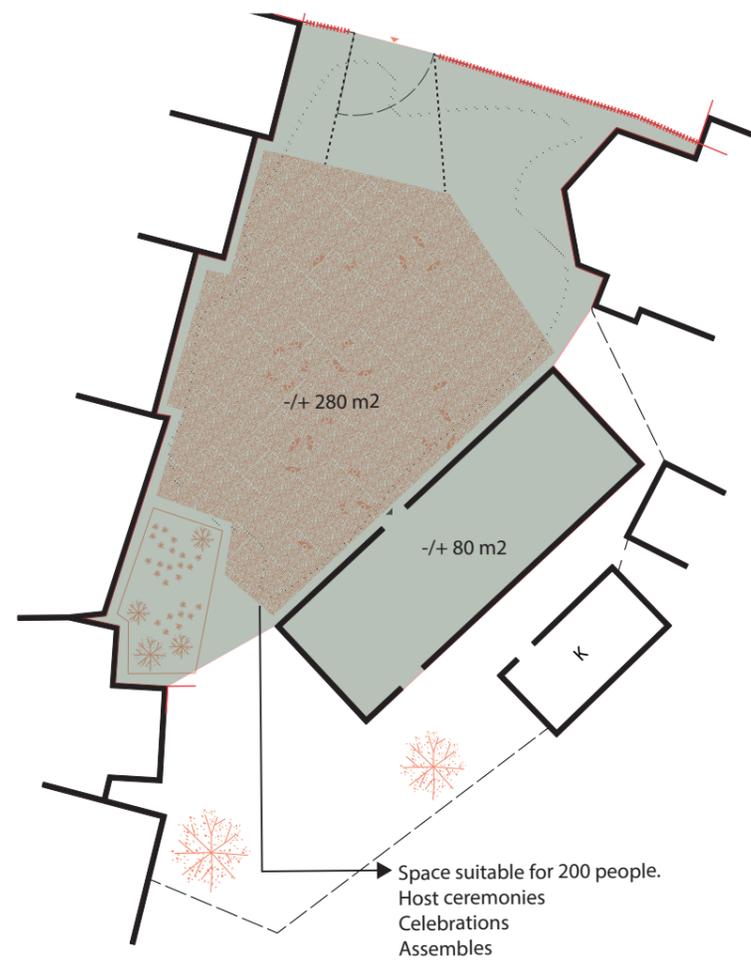
THE 'IDDIR'
 [def]
An informal arrangement of financial and communal trust.



It is popular among people in all walks of life in both rural and urban.

RESEARCH TYPES OF IDDIRS

- Community Iddirs
- Tribal Iddirs
- Family Iddirs
- Institutional Iddirs



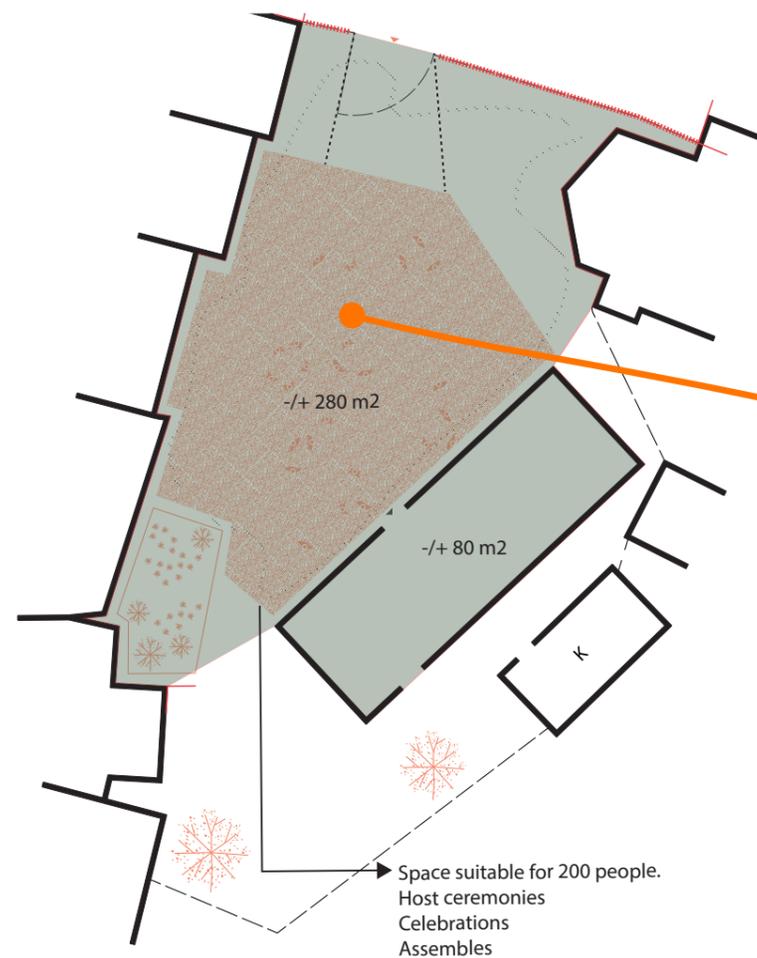
The "Iddir" in Ethiopia: Historical Development, Social Function, and Potential Role in HIV/AIDS Prevention and Control on JSTOR. (2000).

RESULTS THE IDDIR

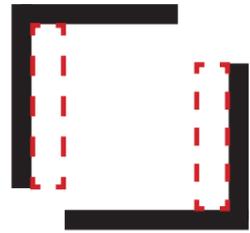
TOTAL SURFACE AREA OF IDDIR

-/+350 m²
75 households

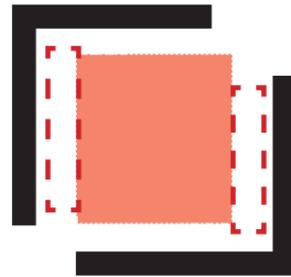
ACTIVITIES.



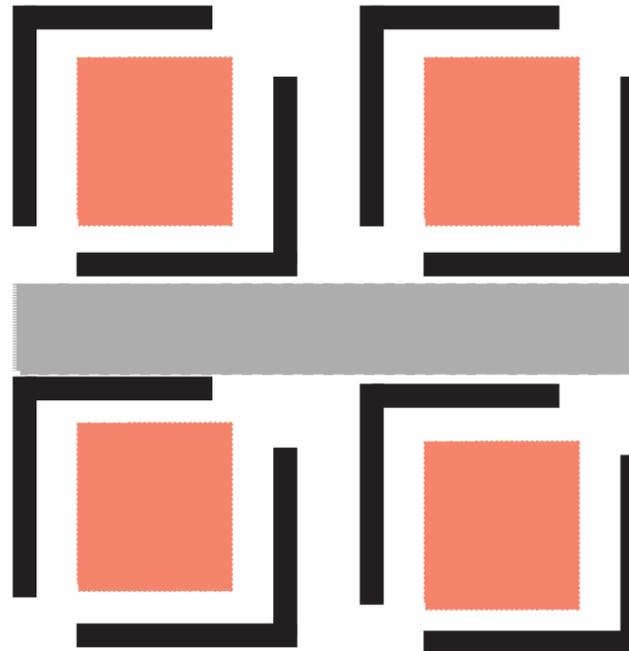
RESEARCH RESULTS



1. The private spheres in a compound



2. Compound space

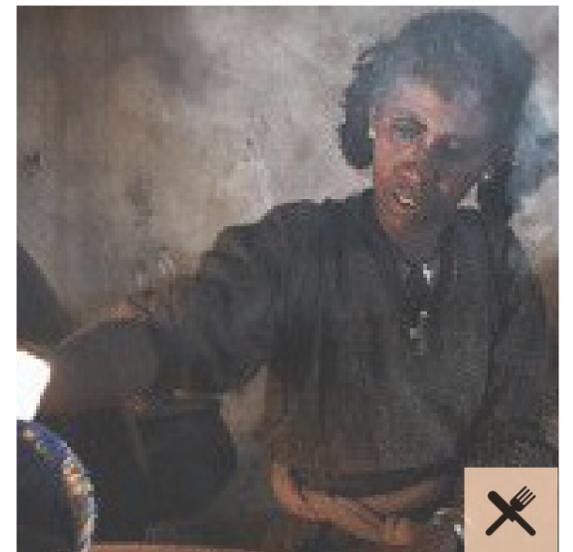
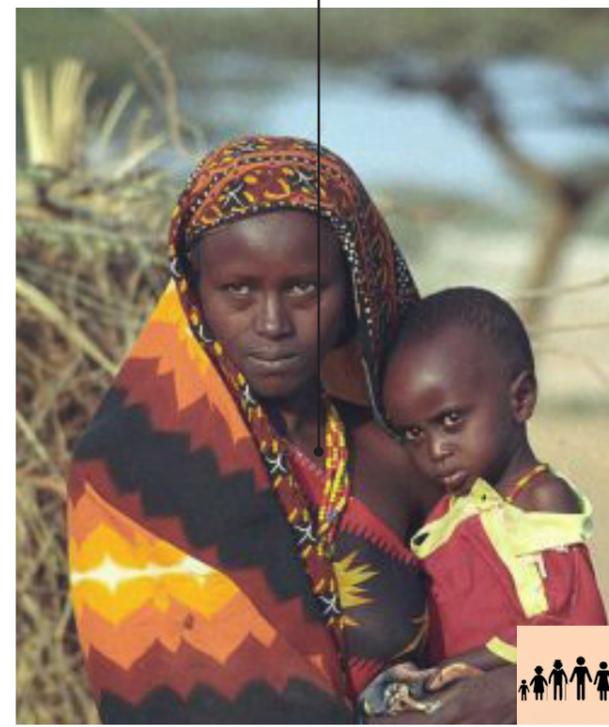
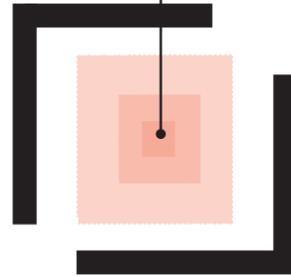


3. The intermediate space

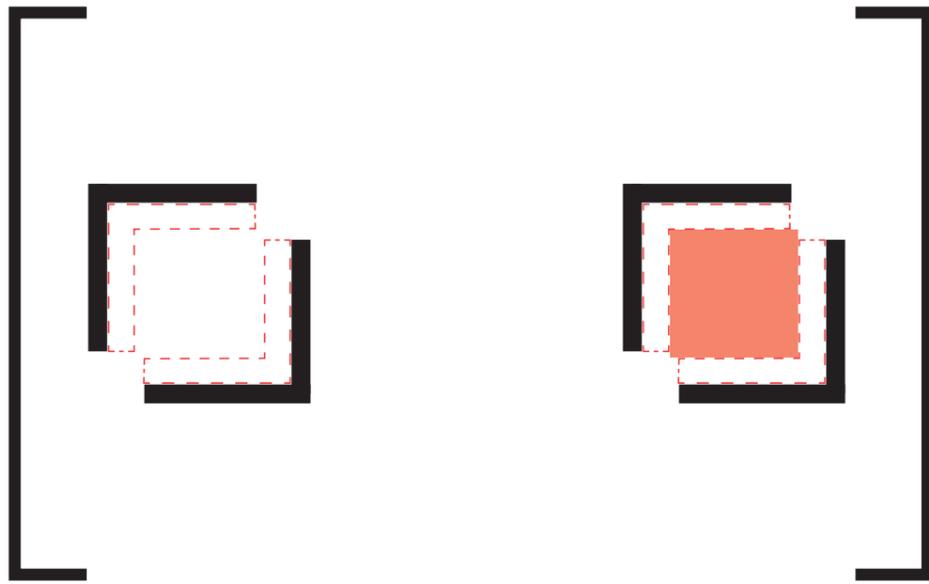


4. The 'Iddir' gathering

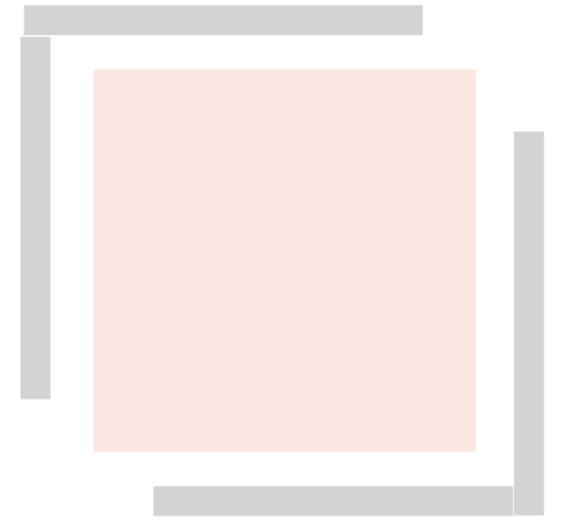
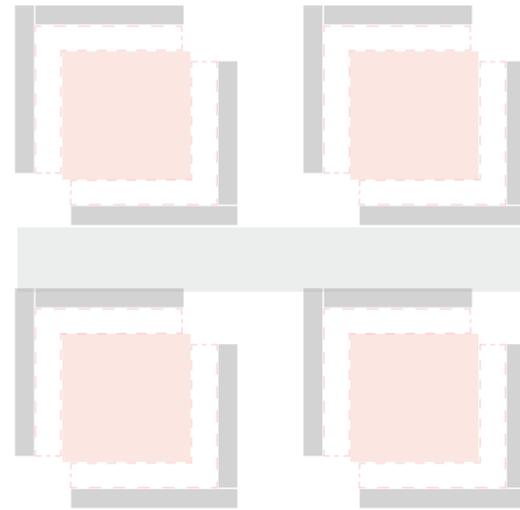
RESEARCH RESULTS VARIOUS SOCIAL ACTIVITIES



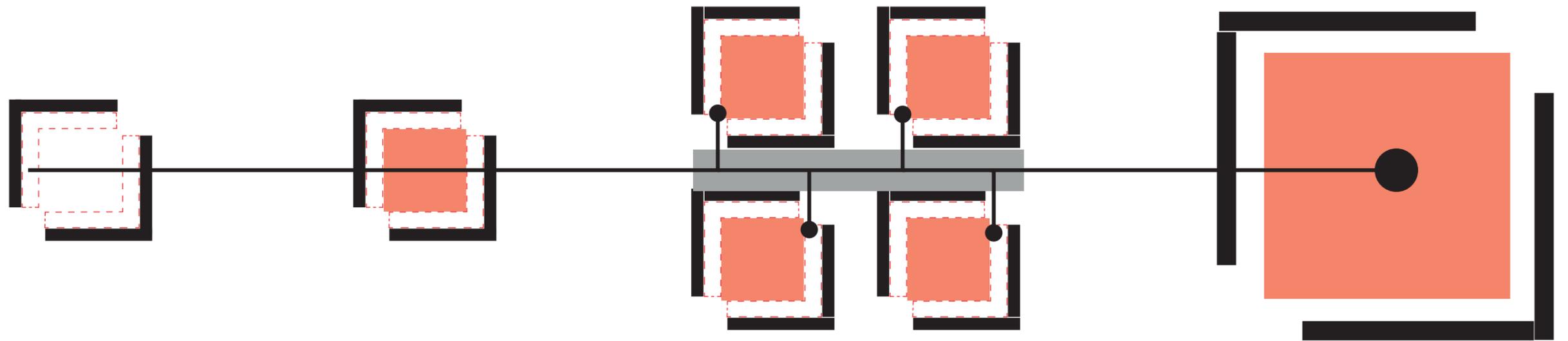
RESEARCH RESULTS



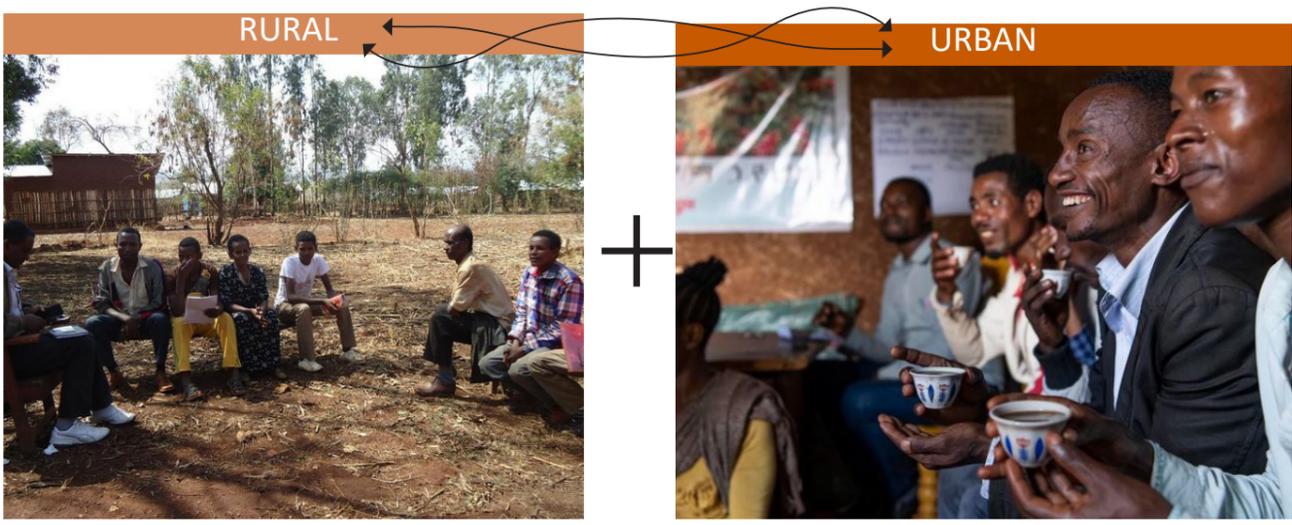
*SO AS LONG AS THEY HAVE SMALL SCALE AREAS
THAT CAN BE SHAPED TO THEIR RECOGNITION...*



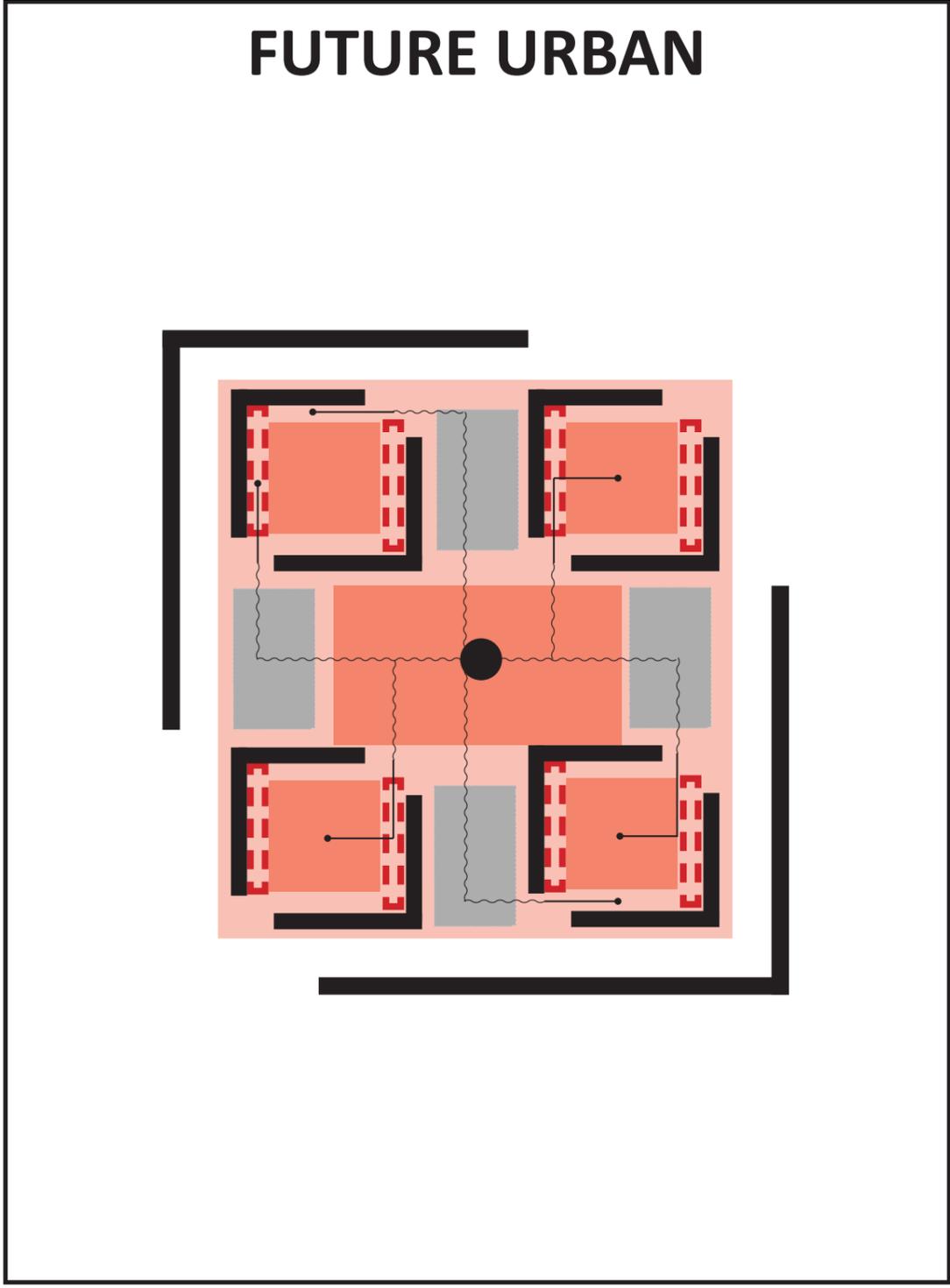
RESEARCH RESULTS



*THEY ARE WILLING TO MEET AND SHARE
A BIGGER SCALE.*



=





INTRODUCTION

- *Problem Statement*
- *Research Question*



RESEARCH

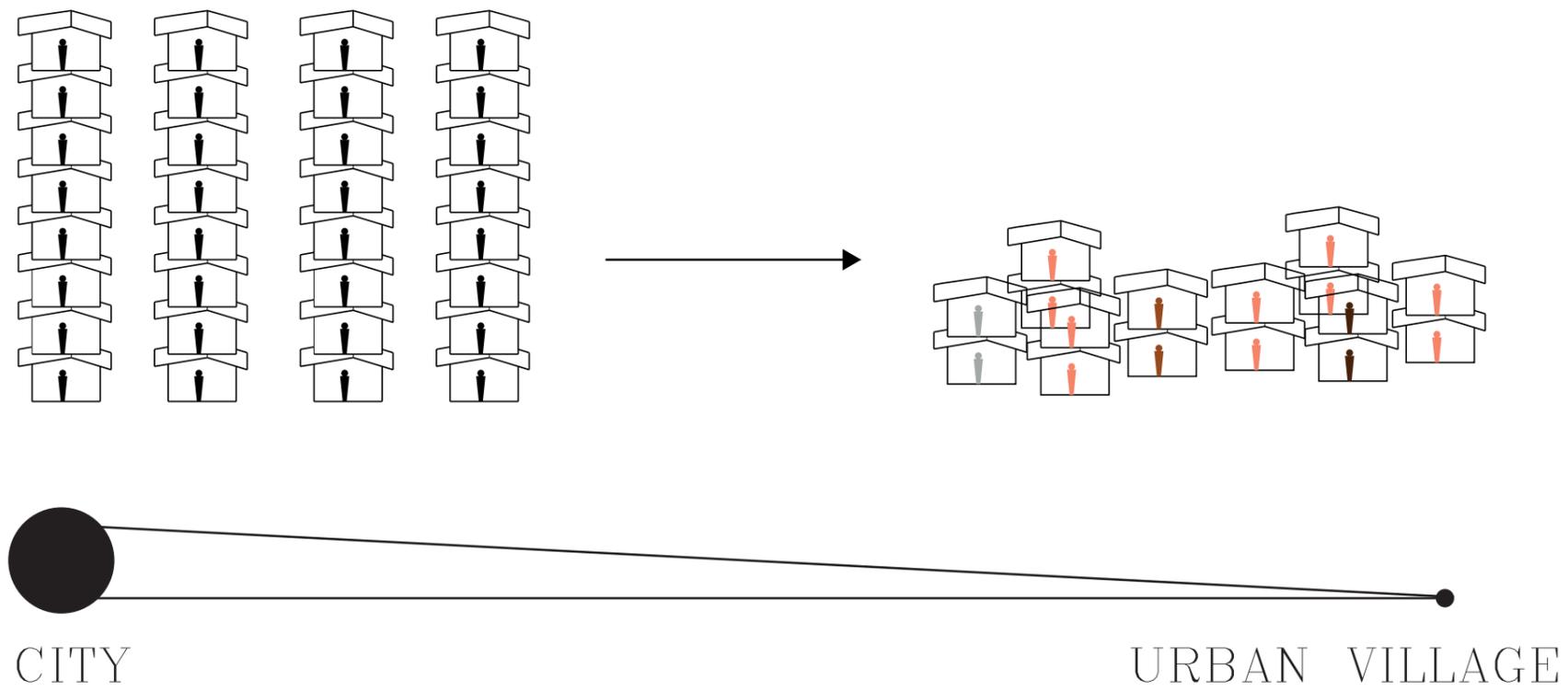
- *Countries' multi-ethnicity*
- *Addis Ababa, social and spatial patterns*



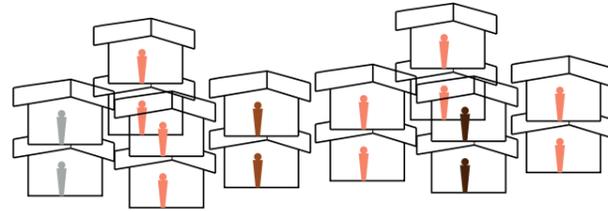
DESIGN

- *Urban strategy*
- *The building system*
- *The infill*

URBAN STRATEGY



WHAT IS AN URBAN VILLAGE?



Urban Village



Scientific definition

[def]

1. Urban villages are **walkable**, bicycle friendly, transit-oriented, **mixed-use neighborhoods** that can **provide both housing and jobs**, environmental benefits, and quality of life improvements. ¹
2. An urban village is an urban development typically characterized by **medium-density housing**, mixed use zoning, good public transit and an **emphasis on pedestrianization and public space**. ²
3. An urban village is an area occupied by the **urban community** that lives as resides in the urban environment **as a group** or in a certain groups which was formed naturally due to urbanization.³

My definition

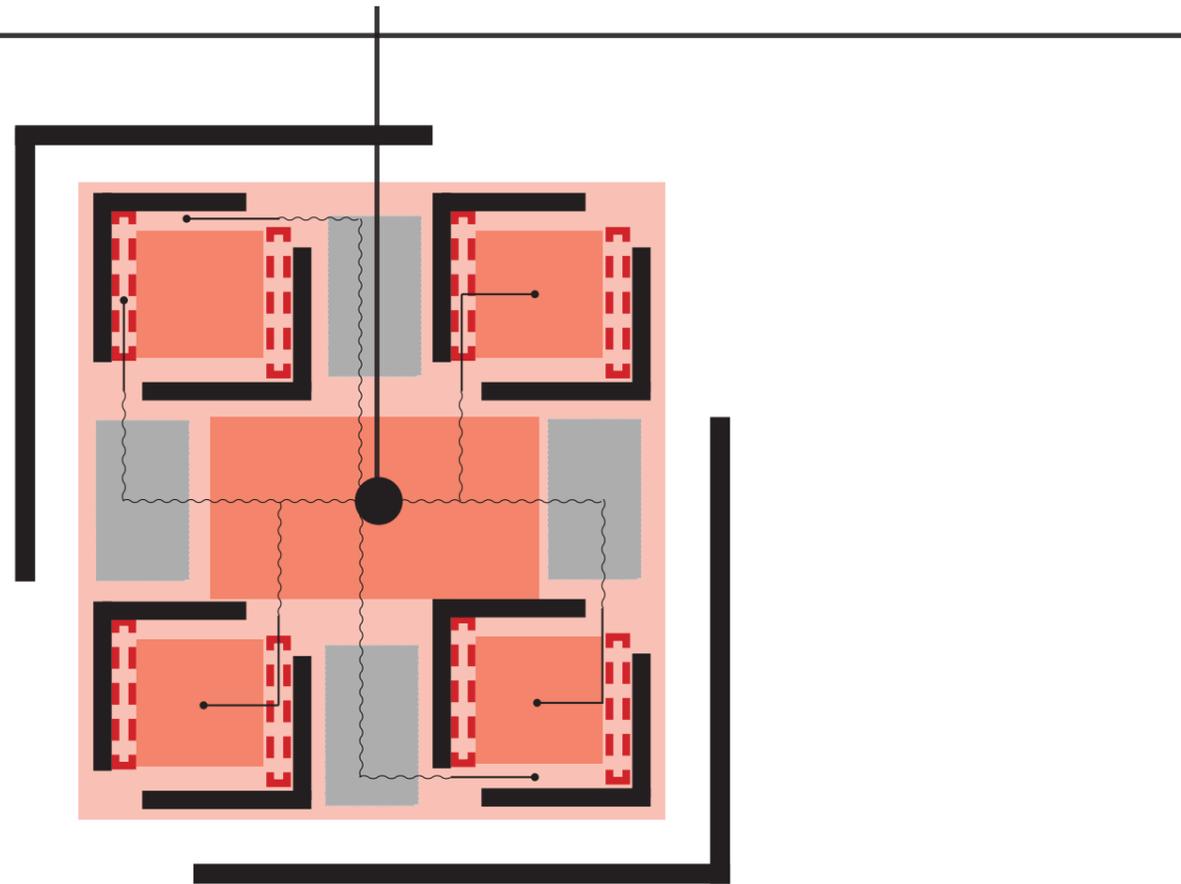
***A framework for liveability,
independency and spatial identity.***

URBAN VILLAGE APPROACH

1. LIVEABILITY

2. INDEPENDENCY

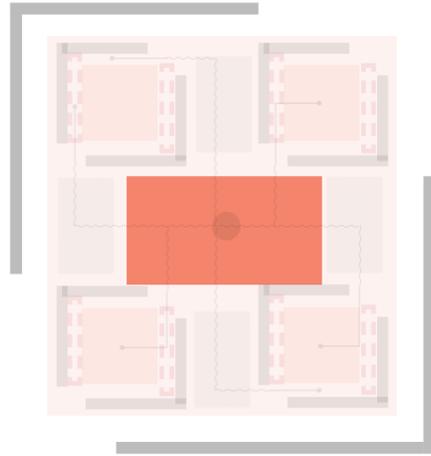
3. SPATIAL IDENTITY



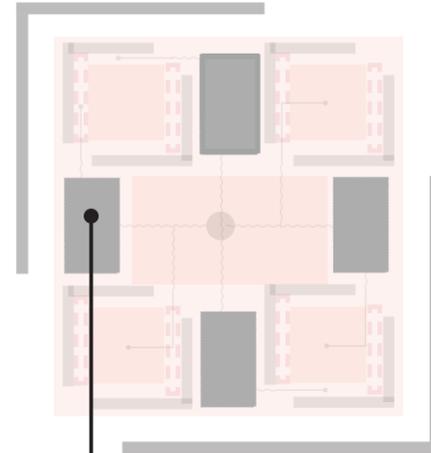
**A LEADING COMMUNITY
OF TRUST SYSTEM**

URBAN VILLAGE PROGRAM

1. PUBLIC AMENITY OF THE VILLAGE

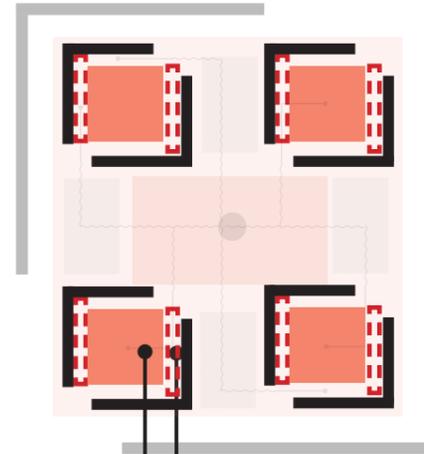


2. THE INTERMEDIATE ACTIVE SPACE



- 1. PARKING
- 2. PEDESTRIAN ROAD
- GREEN AREAS

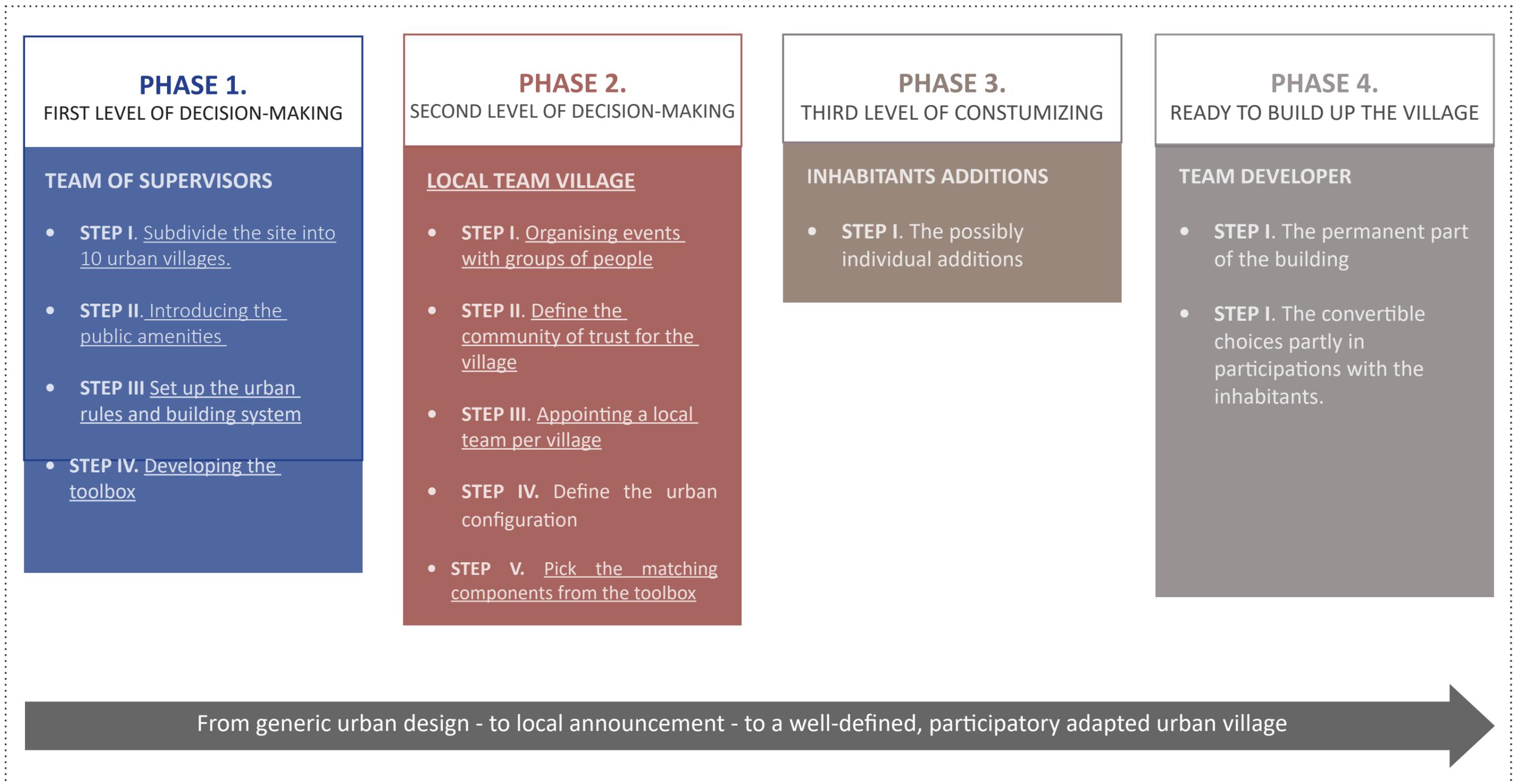
3. BUILDING BLOCKS



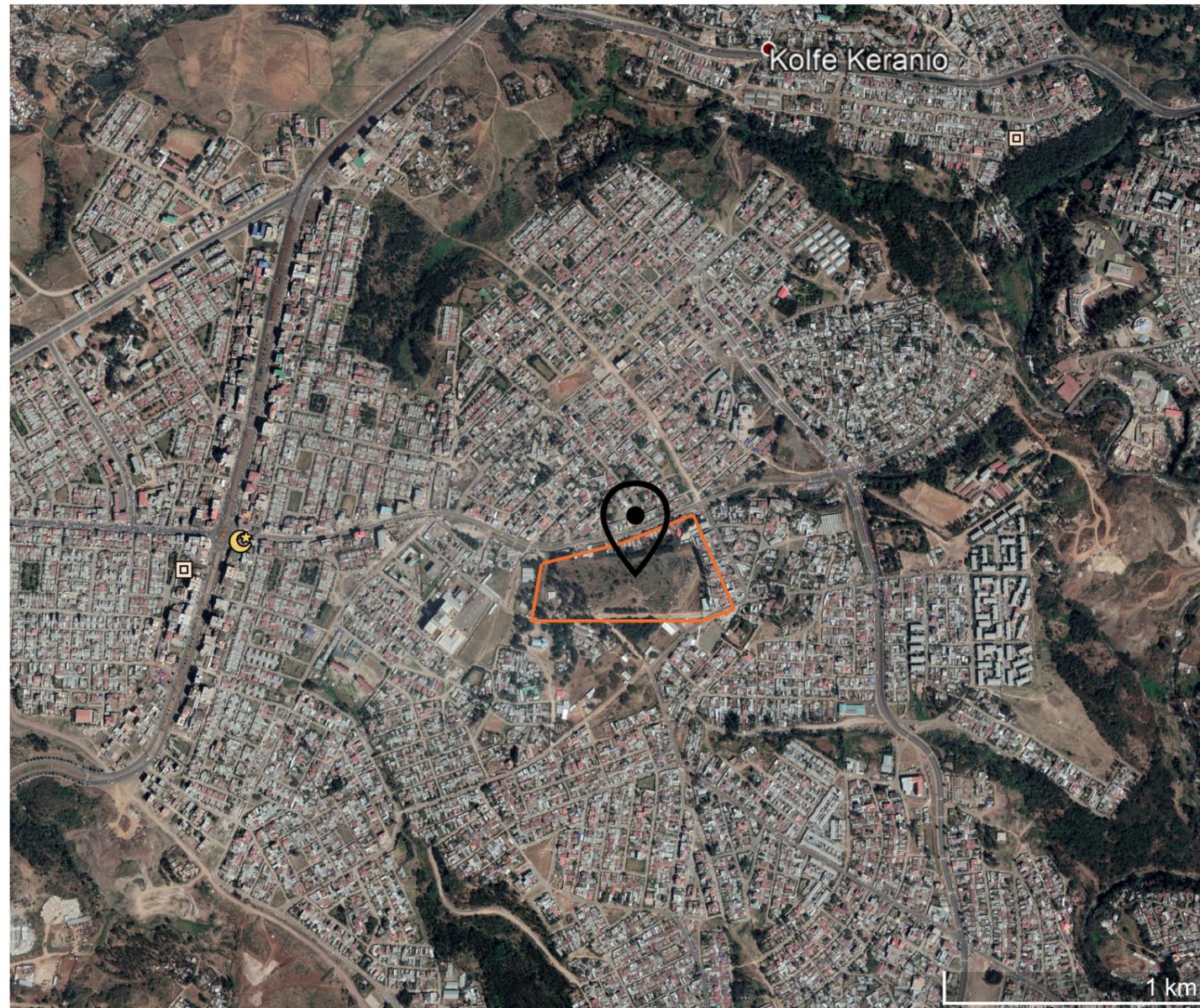
The in-between space

The intimate and private spheres infill

STRATEGY DEVELOPING THE URBAN SCHEME

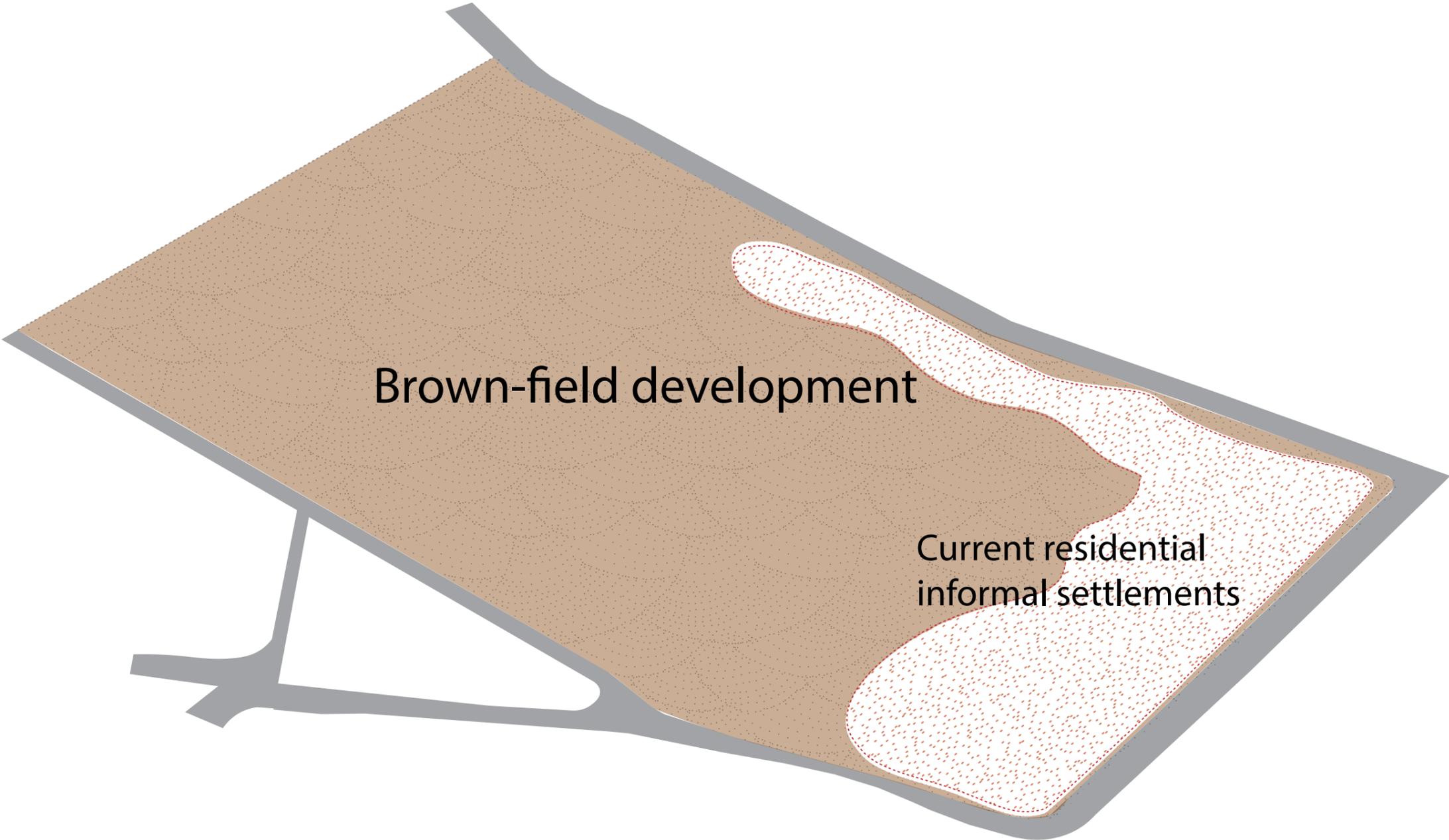


THE SITE WEYIRA



Weyira, Addis Ababa

SITE BROWN-FIELD DEVELOPMENT



PHASE 1

- STEP I. Subdivide the site into 10 urban villages



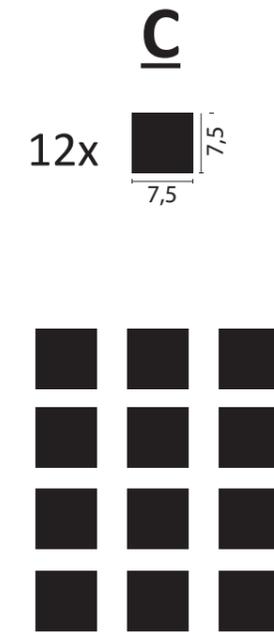
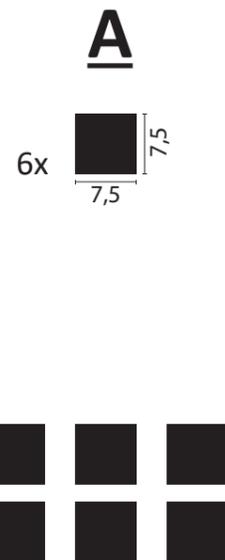
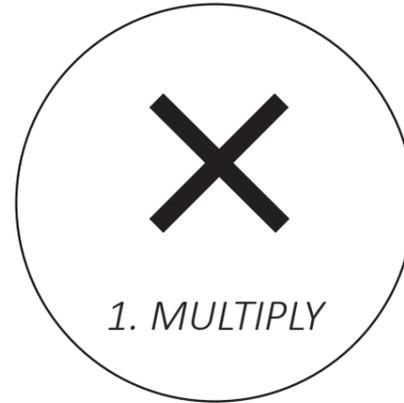
PHASE 1

- STEP II. Introducing the public amenities

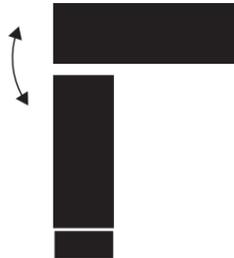
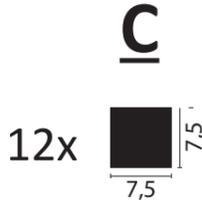
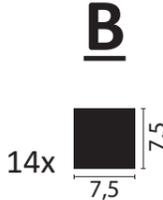
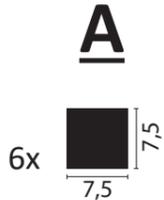
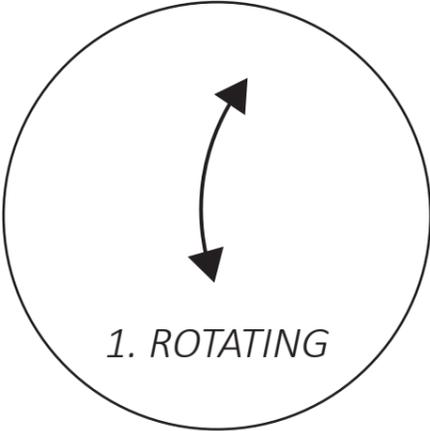


PHASE 1

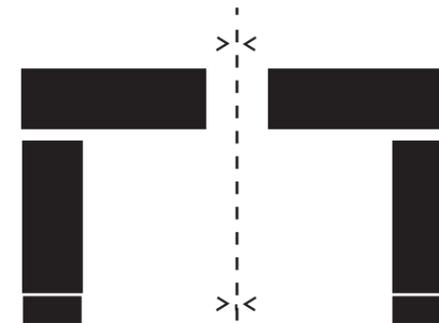
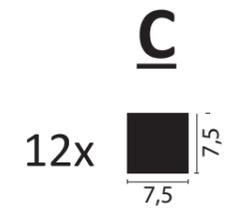
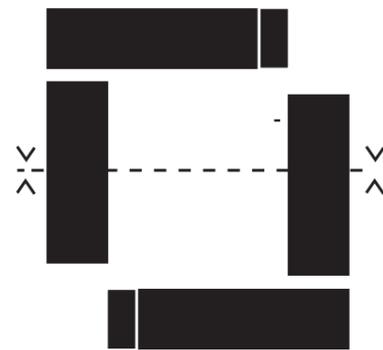
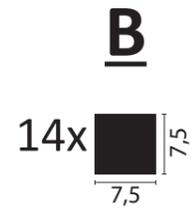
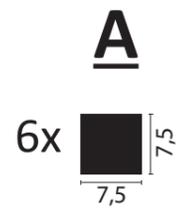
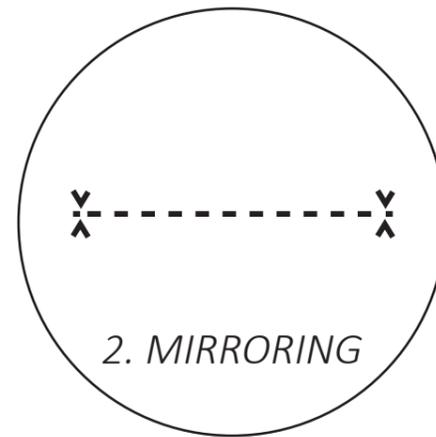
- STEP III. Set up the urban rules and system



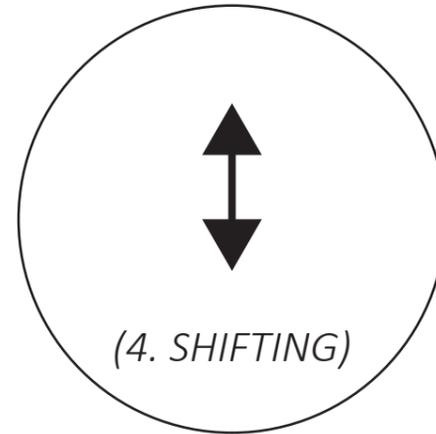
BUILDING COMPONENTS ROTATING



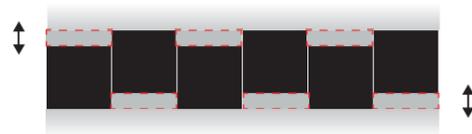
BUILDING COMPONENTS MIRRORING



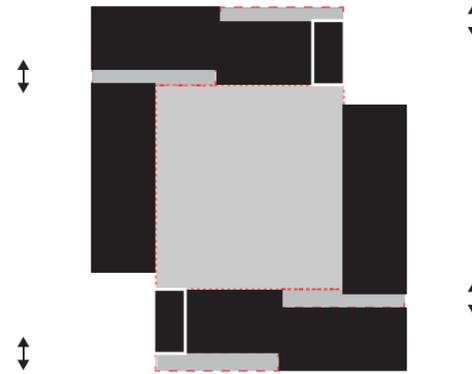
BUILDING COMPONENTS (SHIFTING)



A
6x  7,5



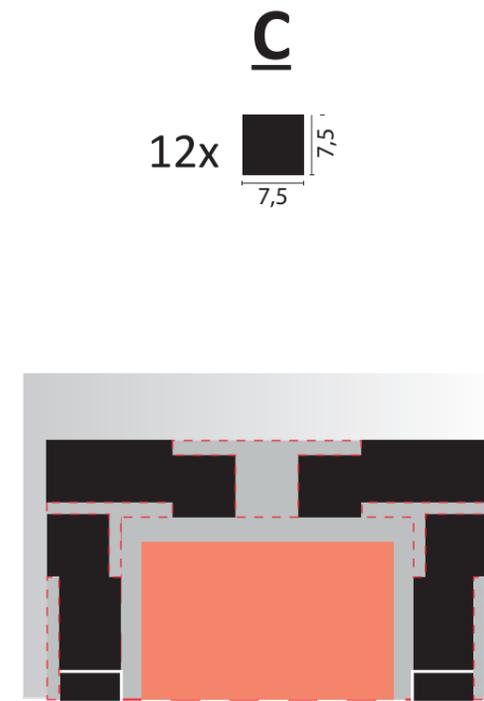
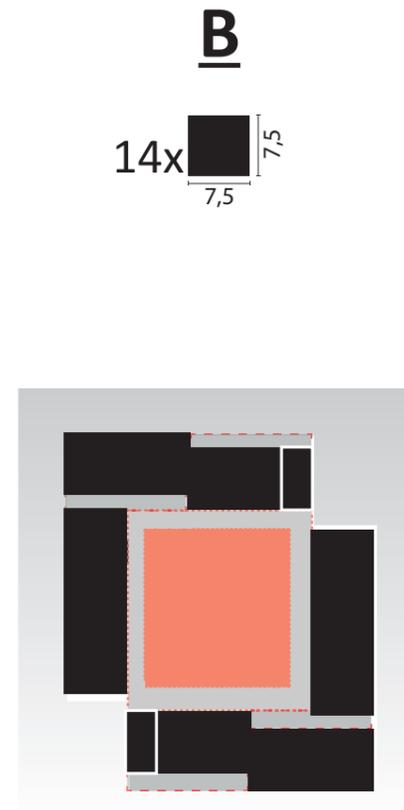
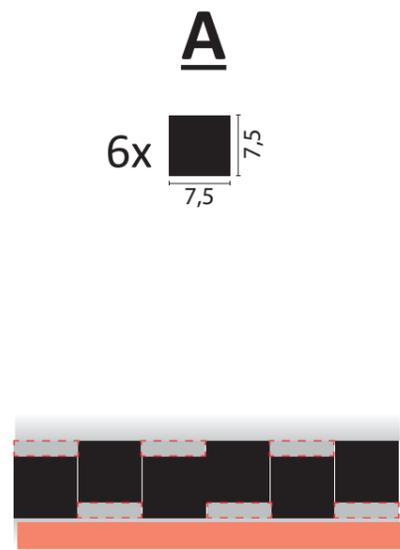
B
14x  7,5



C
12x  7,5



BUILDING COMPONENTS RESULTED SPACE



PHASE 1

- STEP III. Developing the toolbox

BUILDING COMPONENTS

STRUCTURE

SERVICES

SKIN

SPACE PLAN

STUFF

SPACE MATRIX

FORMAL GRID

MANDATORY SPATIAL ELEMENTS

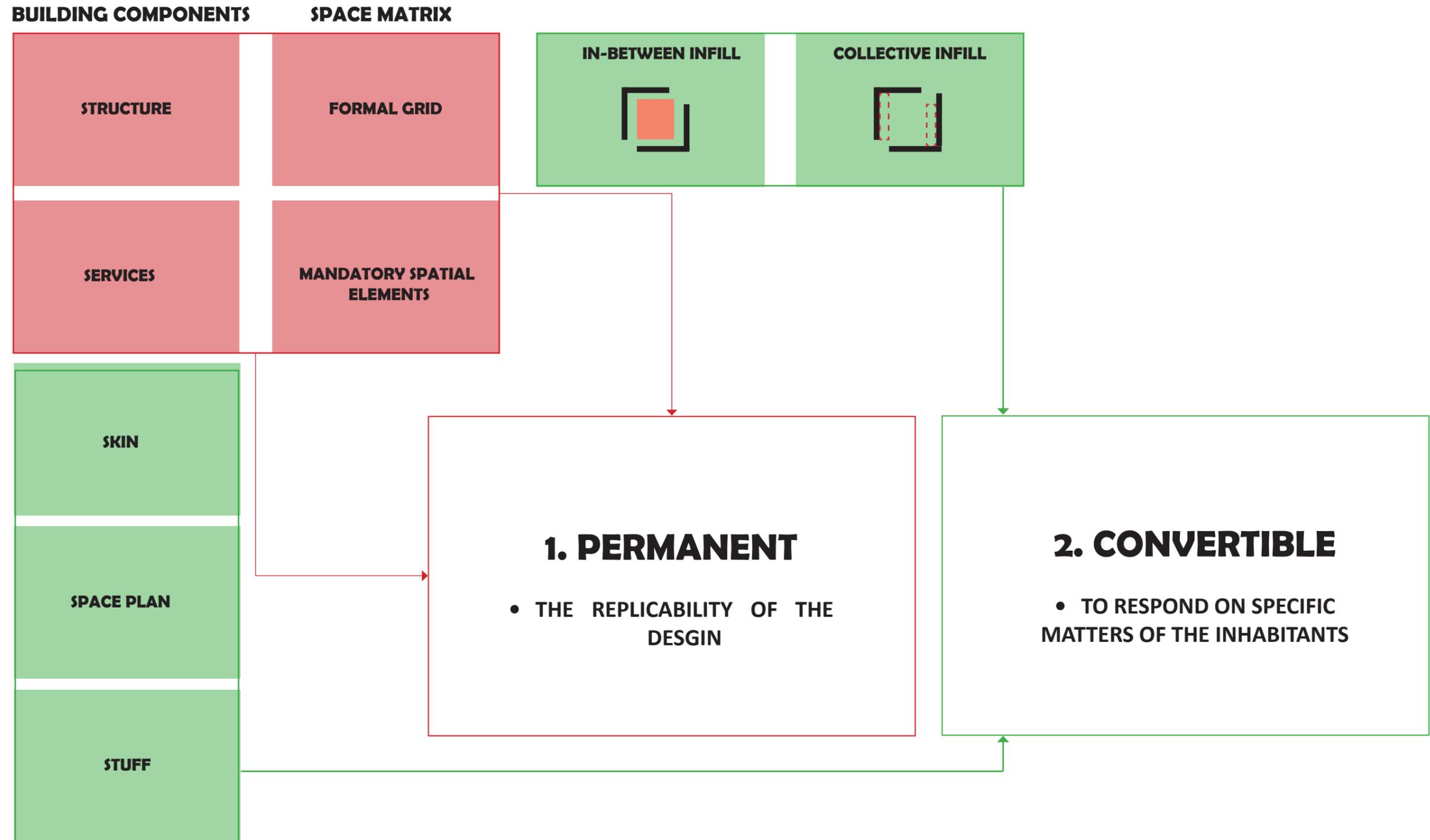
IN-BETWEEN INFILL



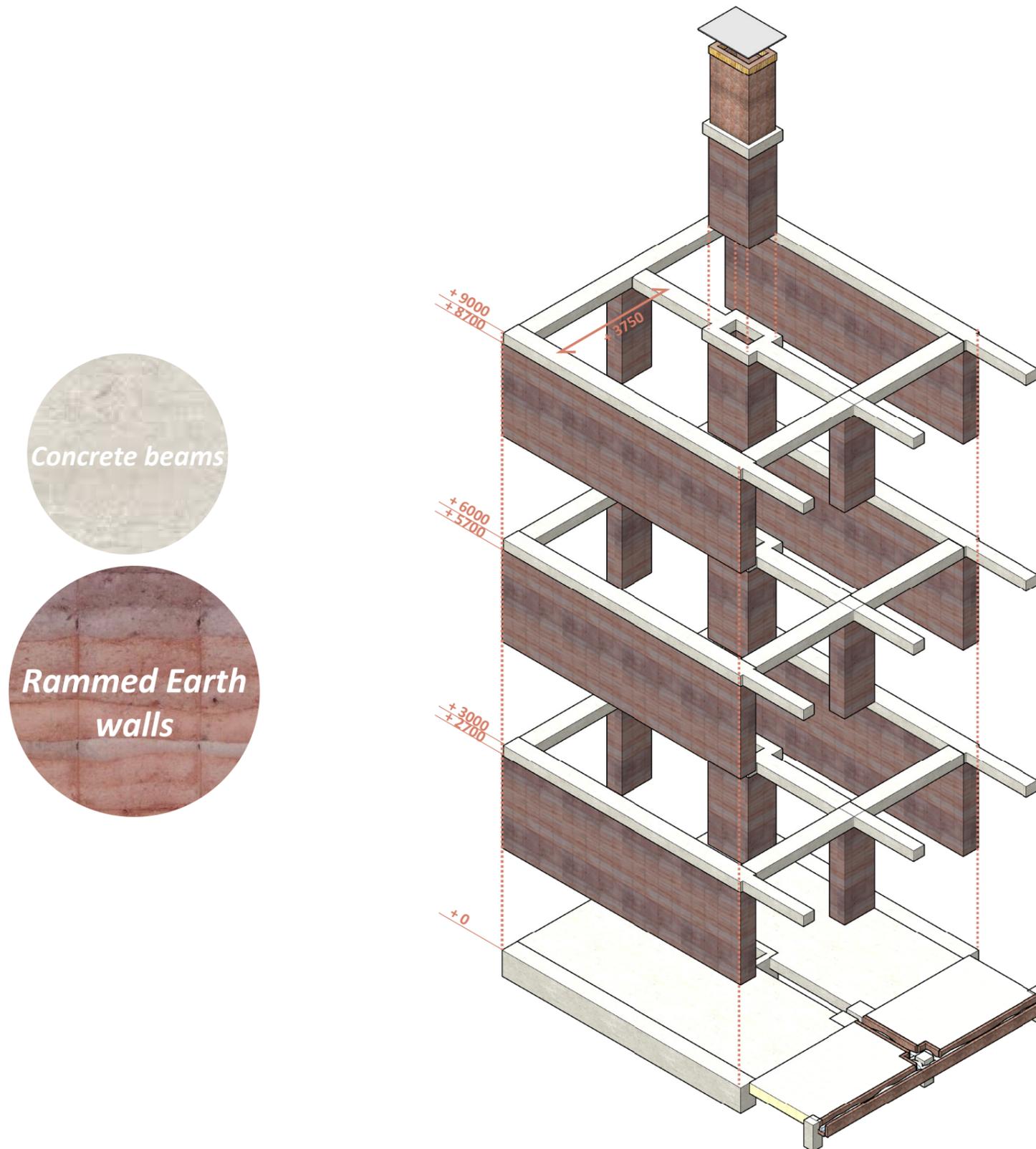
COLLECTIVE INFILL



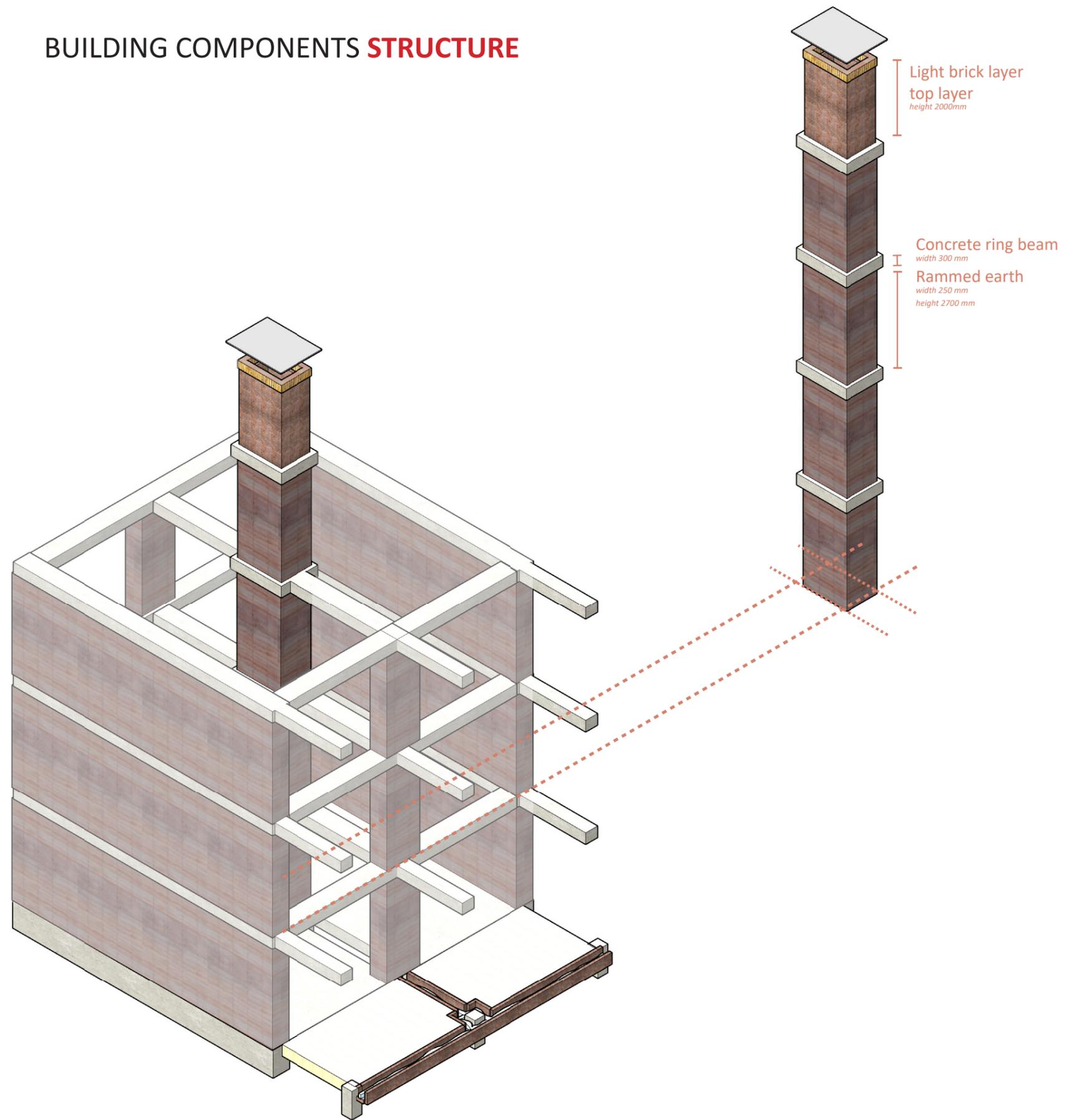
TOOLBOX



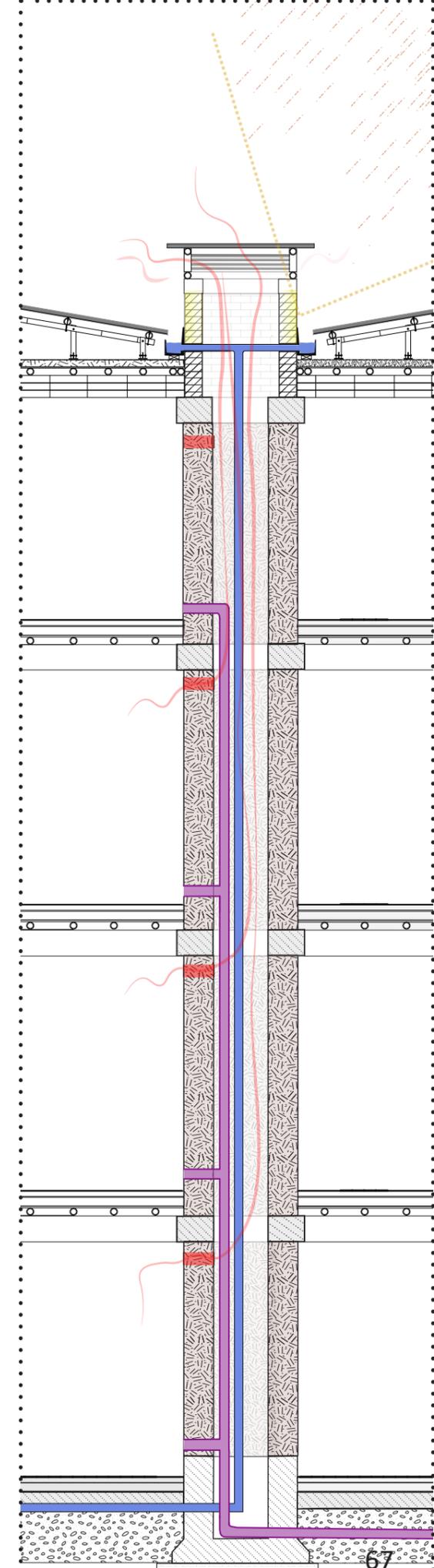
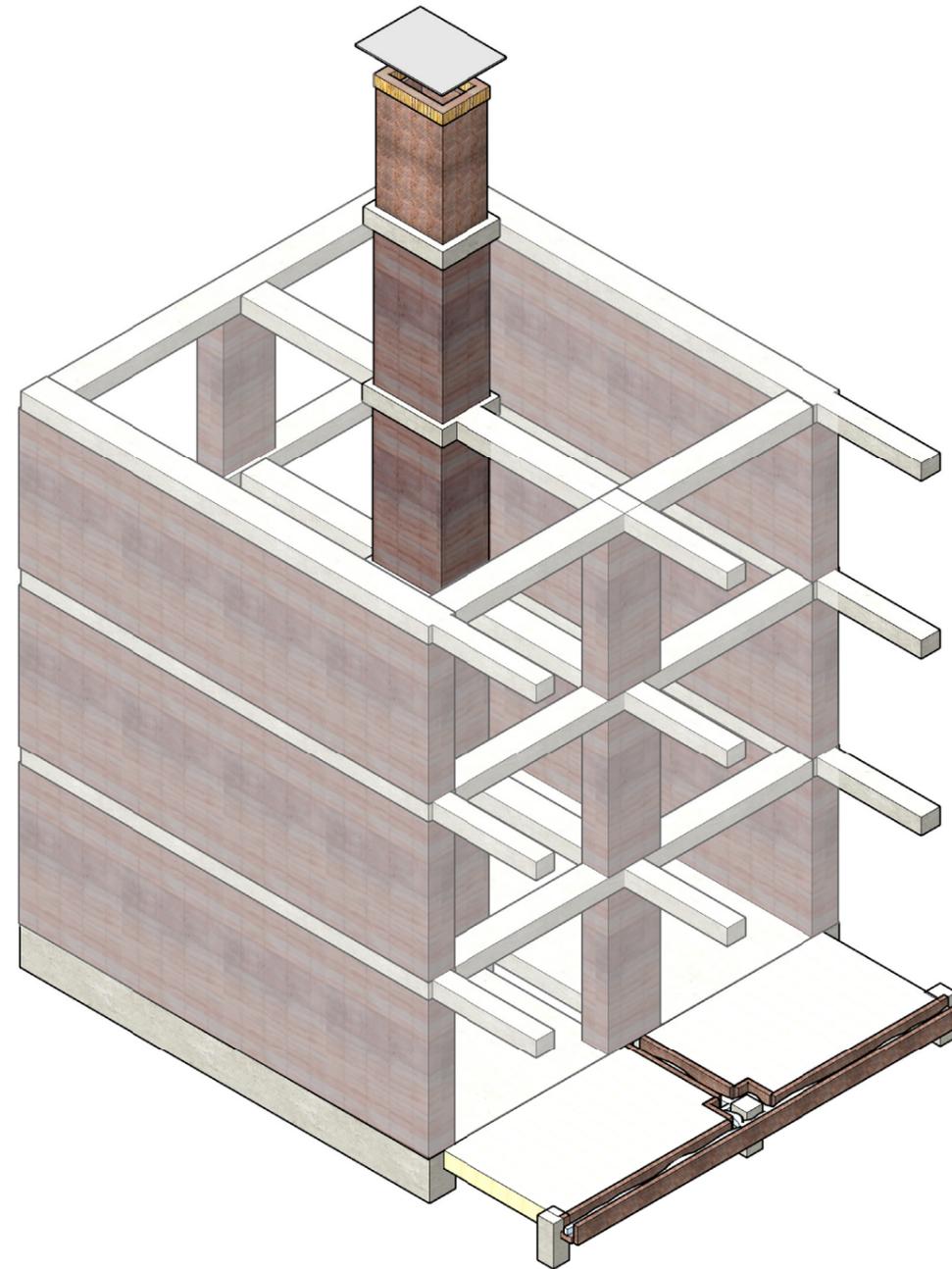
BUILDING COMPONENTS **PERMANENT**



BUILDING COMPONENTS **STRUCTURE**



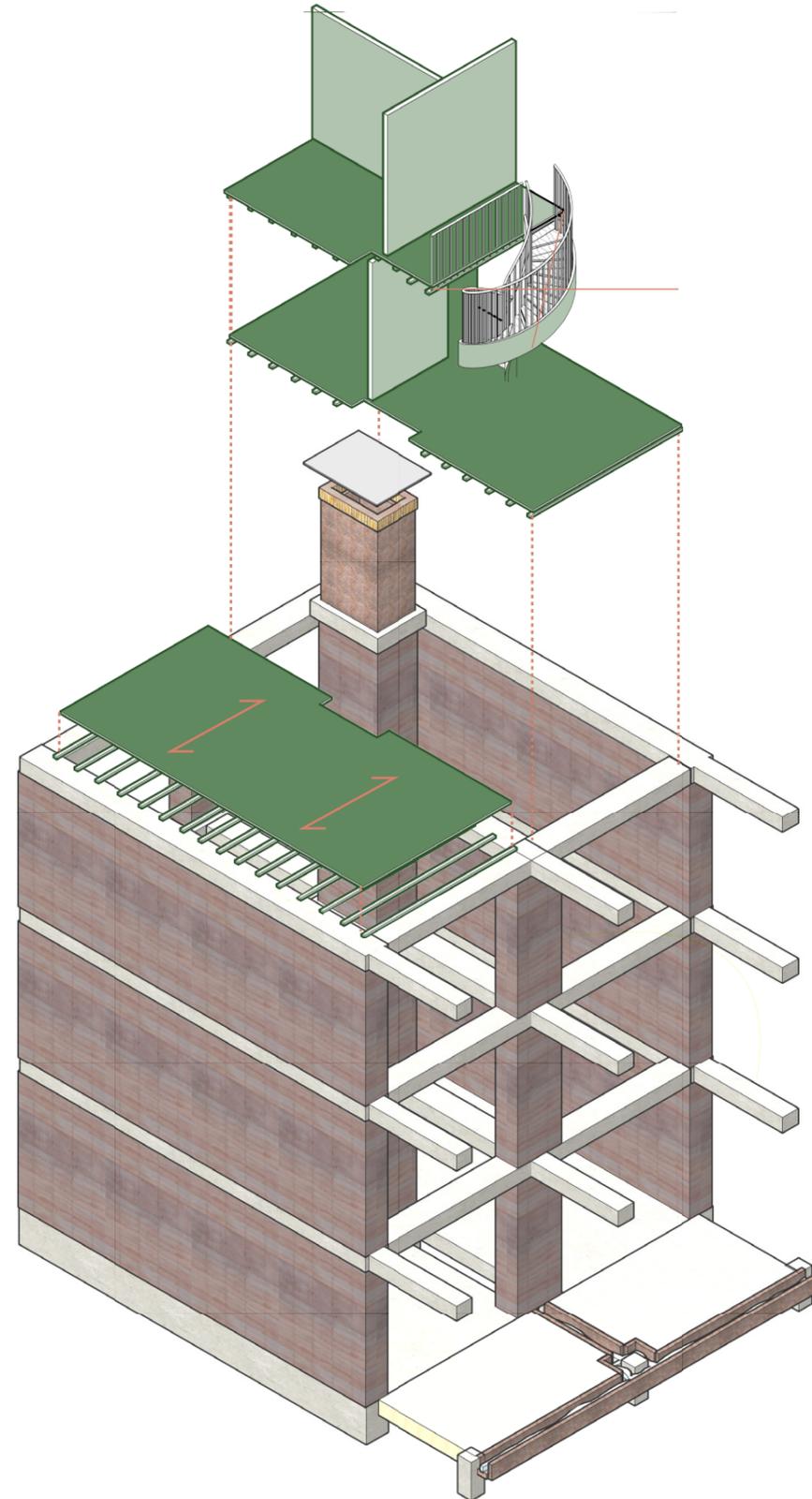
BUILDING COMPONENTS SERVICES



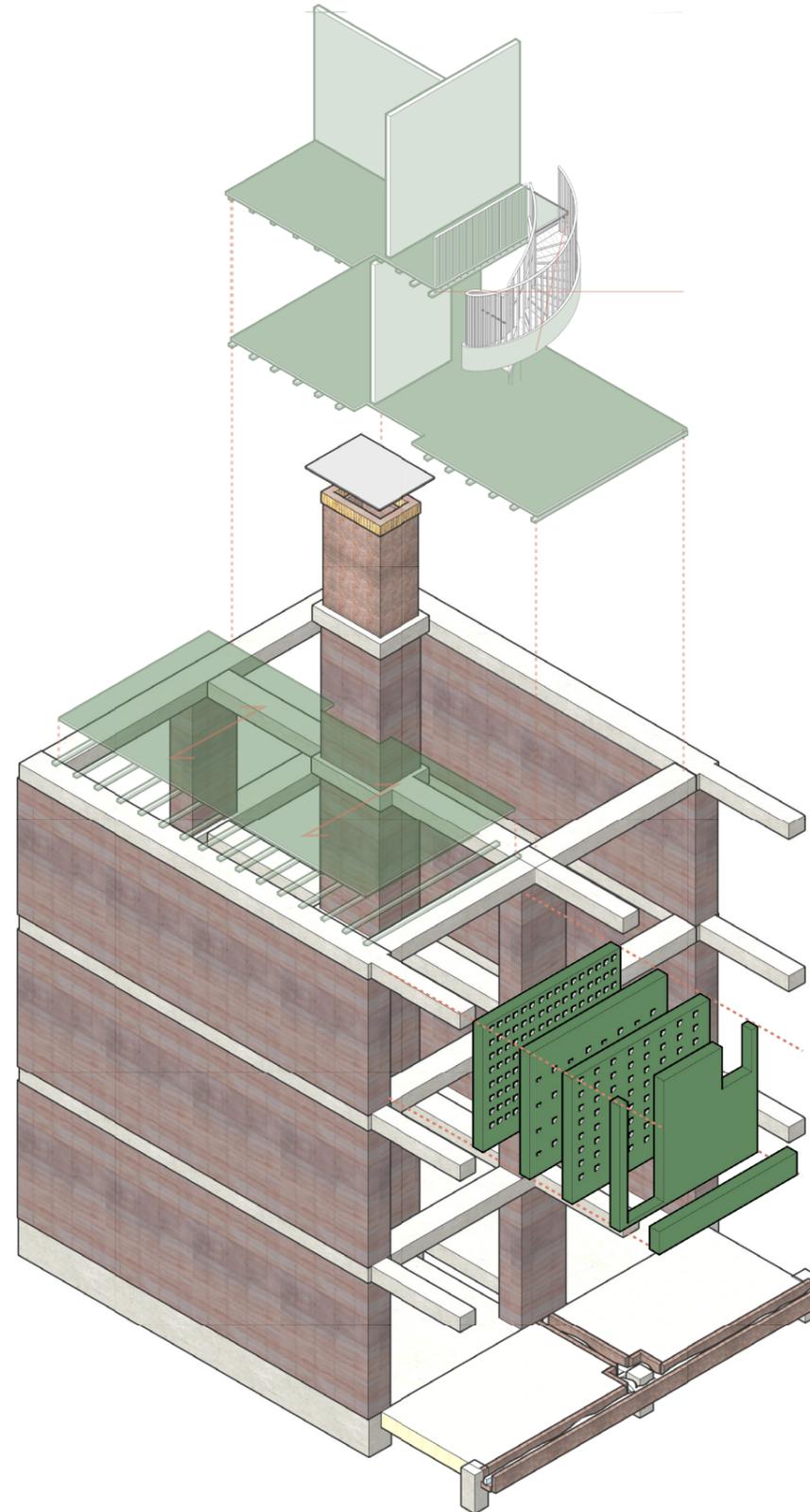
Building components



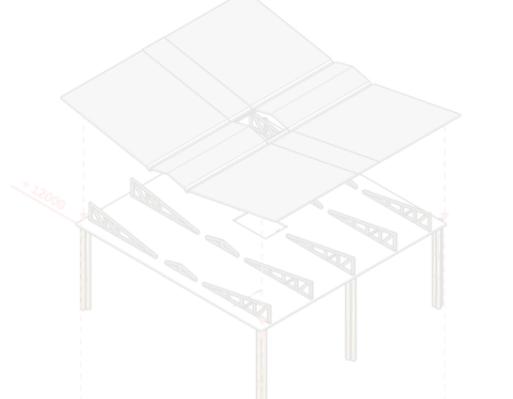
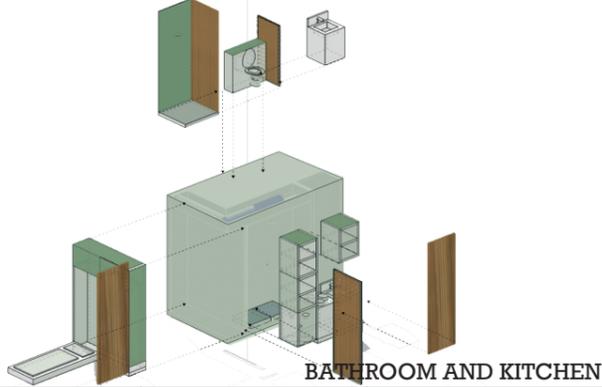
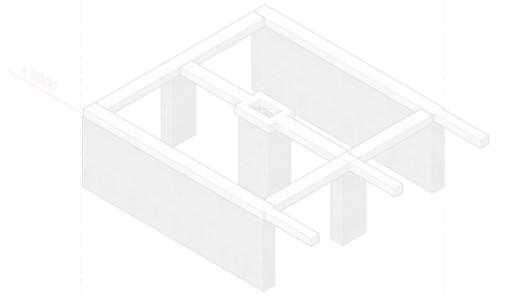
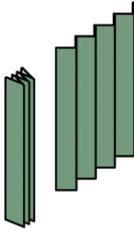
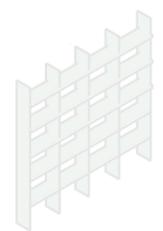
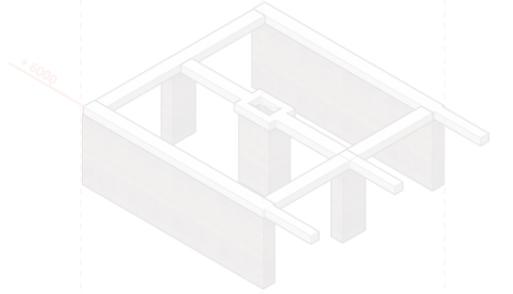
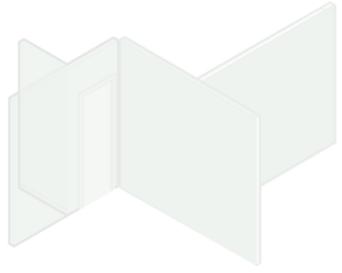
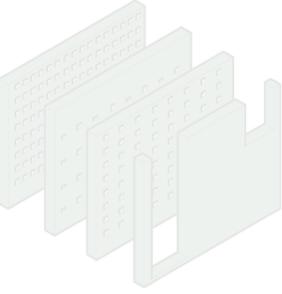
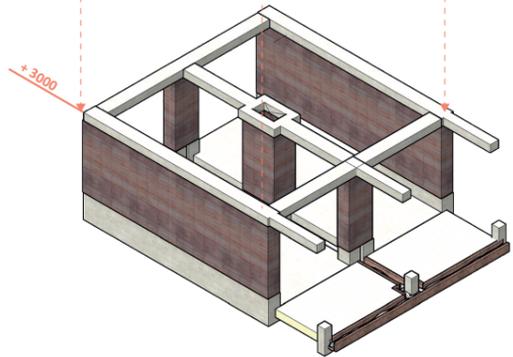
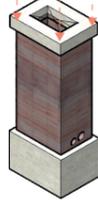
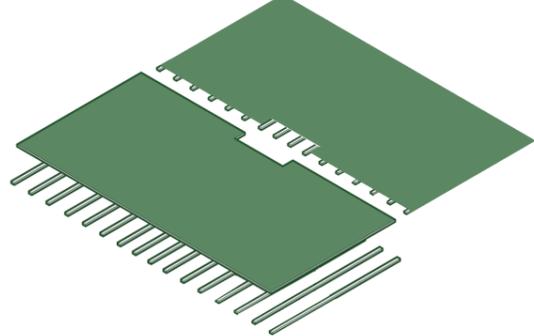
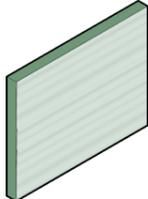
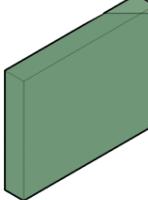
BUILDING COMPONENTS **SPACE PLAN**



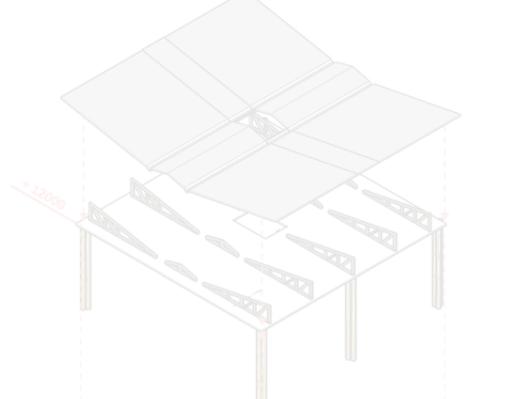
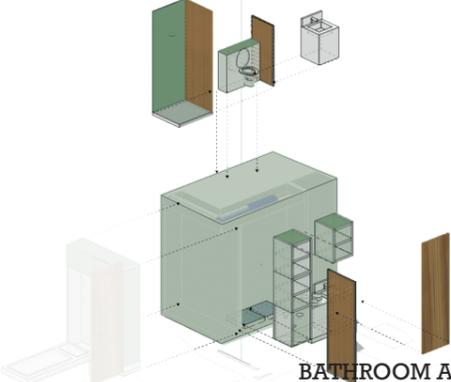
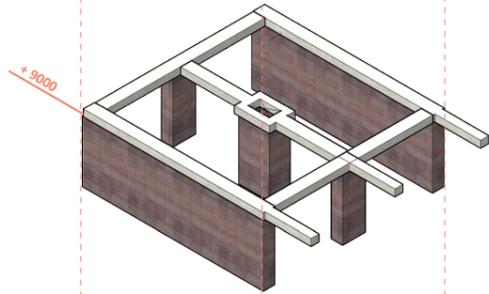
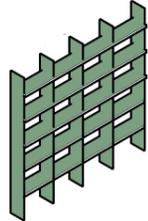
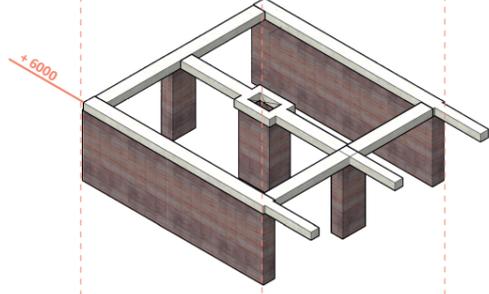
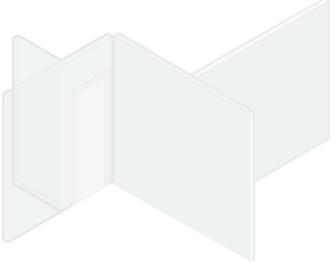
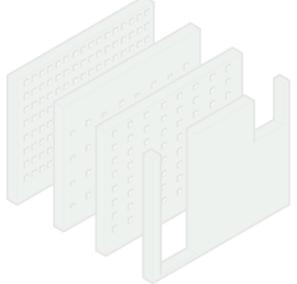
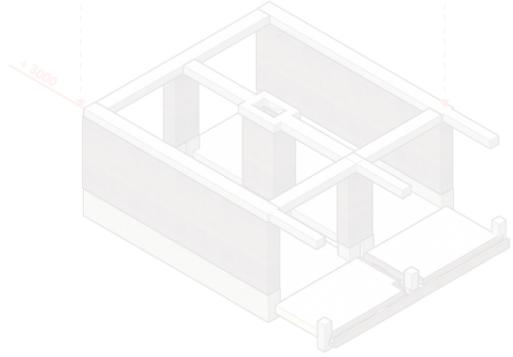
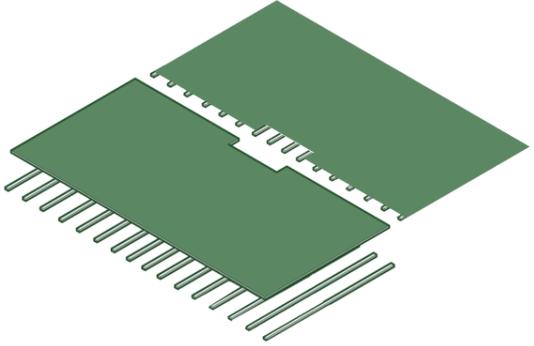
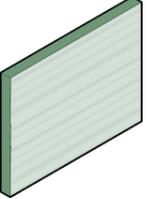
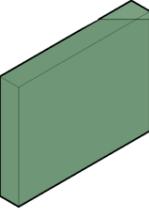
BUILDING COMPONENTS **SKIN**



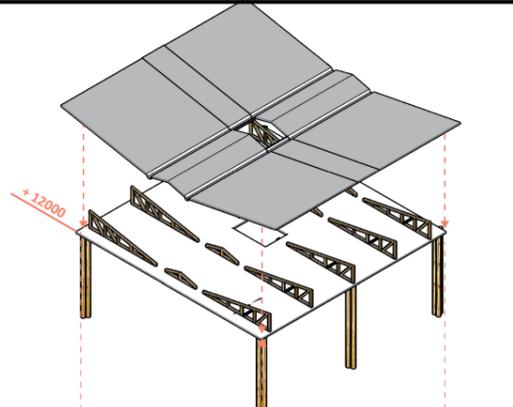
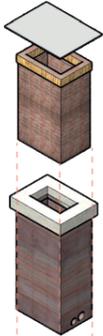
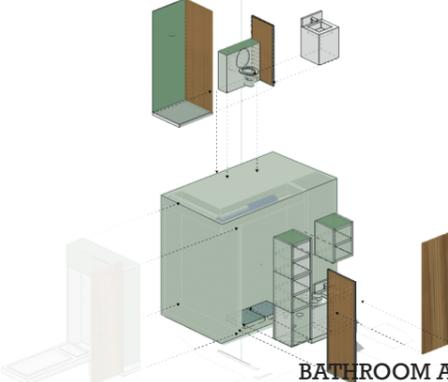
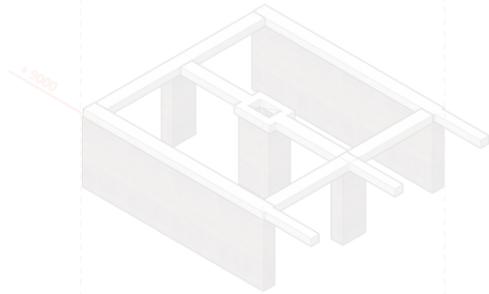
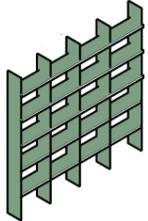
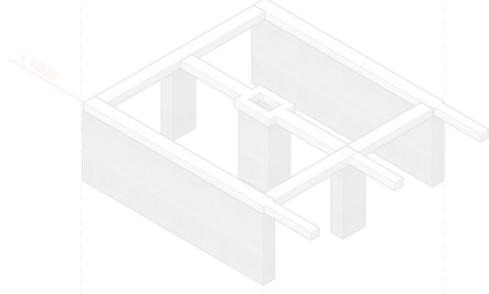
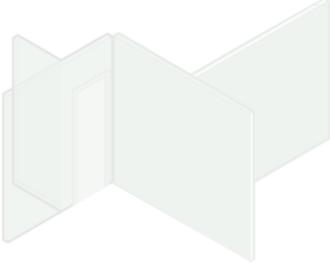
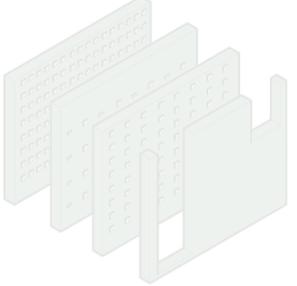
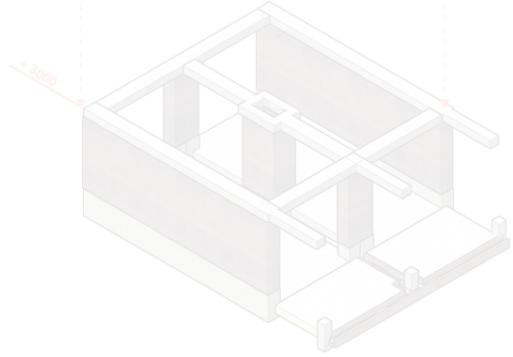
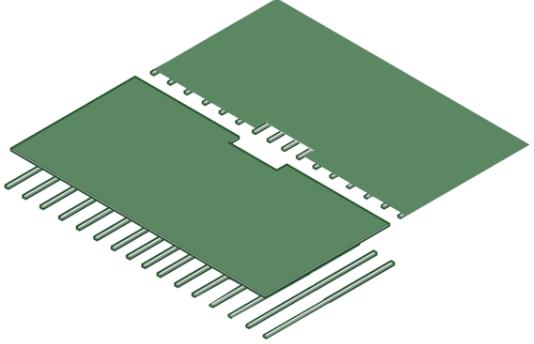
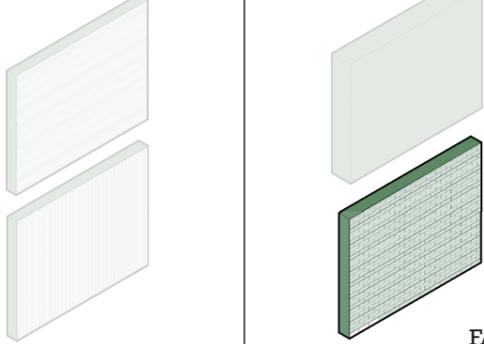
BUILDING TOOLBOX

STRUCTURE	SERVICES	SPACE PLAN			SKIN		
							
							
							
							

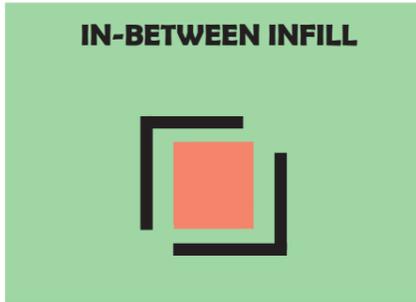
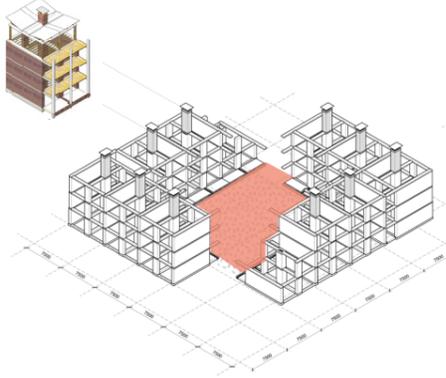
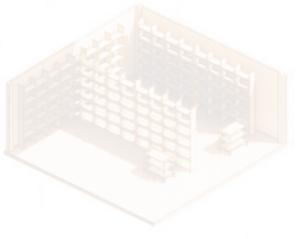
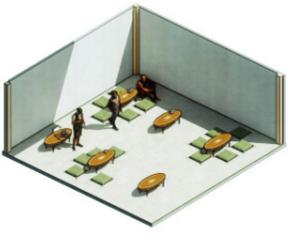
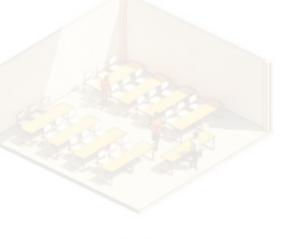
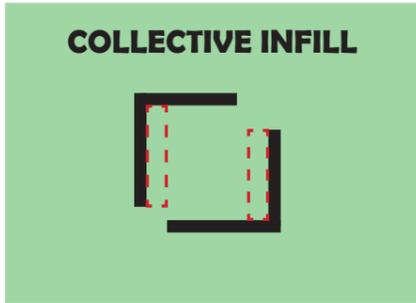
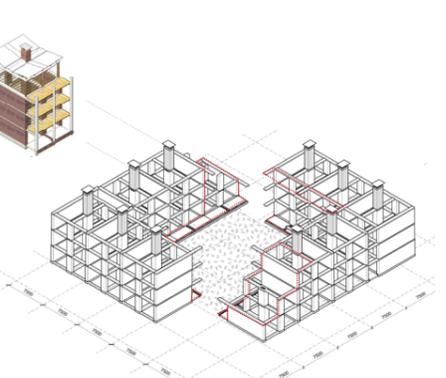
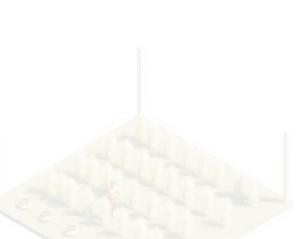
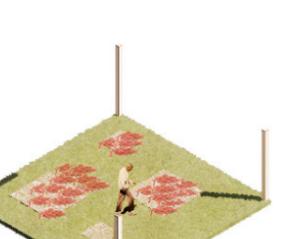
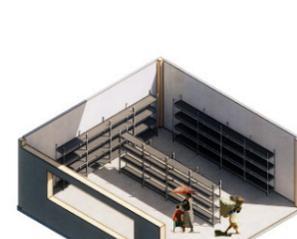
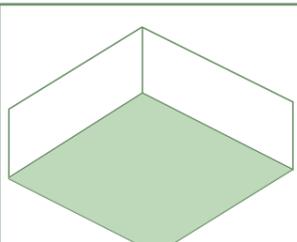
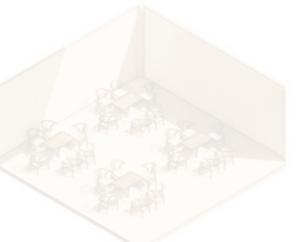
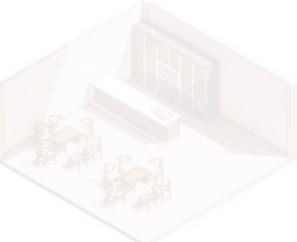
BUILDING TOOLBOX

STRUCTURE	SERVICES	SPACE PLAN		SKIN			
		 <p>BATHROOM AND KITCHEN</p>					
				 <p>TEMPORARY WALLS</p>			<p>WINDOW FRAMES</p>
		 <p>PERMANENT INDOOR WALLS</p>	 <p>SPIRAL CIRCULATION</p>	 <p>SHADING</p>		<p>INLETS</p>	
		 <p>FLOORS</p>			 <p>FACADE</p>		

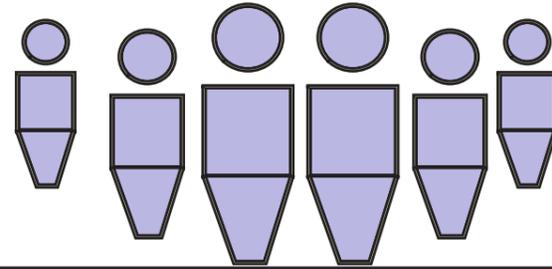
BUILDING TOOLBOX

STRUCTURE	SERVICES	SPACE PLAN		SKIN		
		 <p>BATHROOM AND KITCHEN</p>				
					<p>WINDOW FRAMES</p>  <p>DOORS</p>	
		 <p>PERMANENT INDOOR WALLS</p>		 <p>SPIRAL CIRCULATION</p>	 <p>SHADING</p>	 <p>INLETS</p>
		 <p>FLOORS</p>		 <p>FACADE</p>		

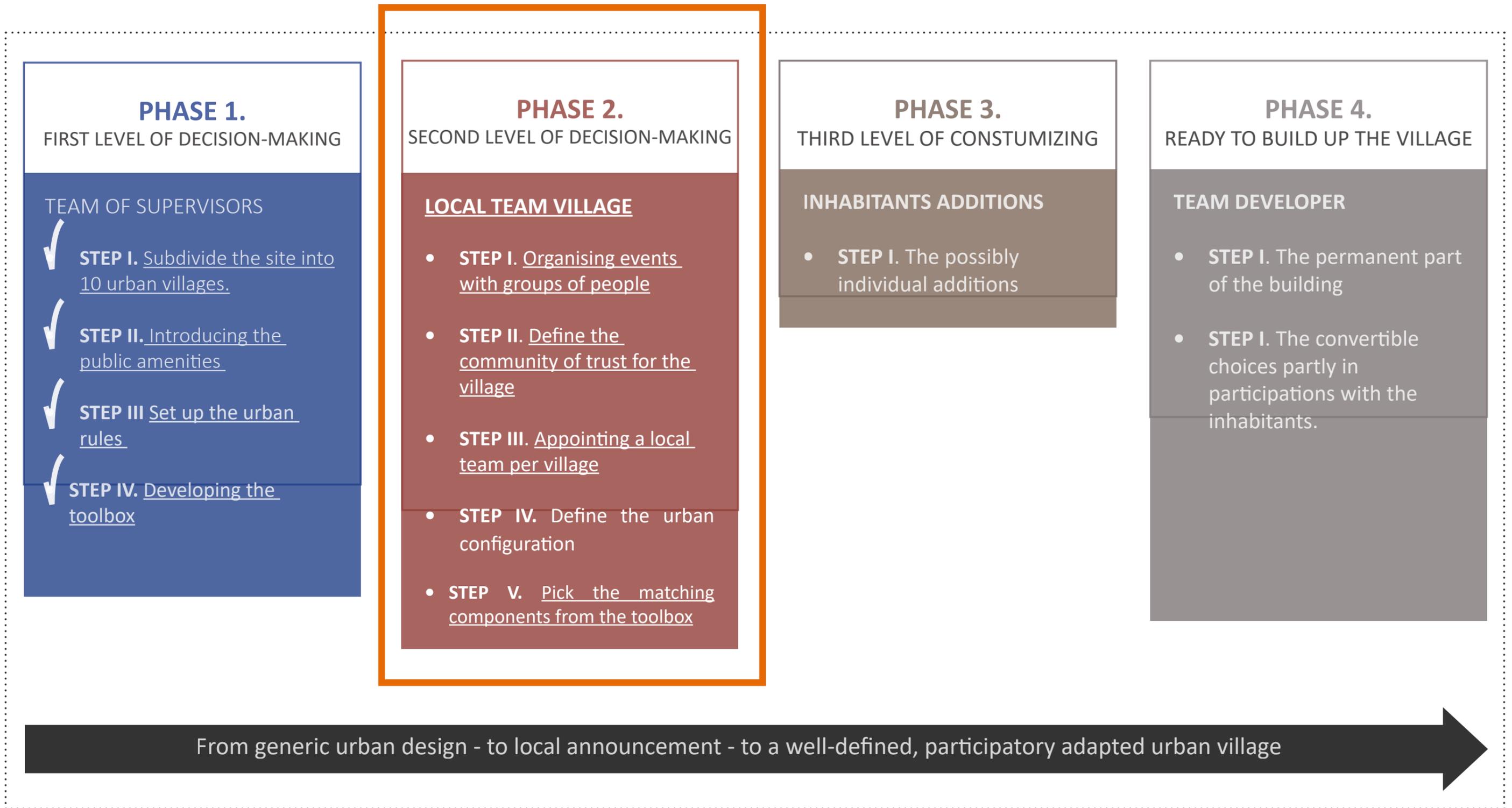
SPACE TOOLBOX

<p>IN-BETWEEN INFILL</p>  	 <p>Farming / vegetable garden</p>	 <p>Playground</p>	 <p>Mini market</p>	 <p>Coffee / café</p>	 <p>Institutional / learning</p>
<p>COLLECTIVE INFILL</p>  	 <p>Farming / vegetable garden</p>	 <p>Playground</p>	 <p>Dry spices / agricultural activities</p>	 <p>Green roofs</p>	 <p>Window shop</p>
 <p>Inhabitants input</p>	 <p>Storage</p>	 <p>Laundry</p>	 <p>Communal dining</p>	 <p>Shared kitchen</p>	

ALL IN ALL



**A SYSTEMATIC APPROACH THAT CAN ADAPT TO CULTURAL
AND LIFESTYLE DIFFERENCES.**



PHASE 1.
FIRST LEVEL OF DECISION-MAKING

- TEAM OF SUPERVISORS
- ✓ **STEP I.** Subdivide the site into 10 urban villages.
 - ✓ **STEP II.** Introducing the public amenities
 - ✓ **STEP III** Set up the urban rules
 - ✓ **STEP IV.** Developing the toolbox

PHASE 2.
SECOND LEVEL OF DECISION-MAKING

- LOCAL TEAM VILLAGE**
- **STEP I.** Organising events with groups of people
 - **STEP II.** Define the community of trust for the village
 - **STEP III.** Appointing a local team per village
 - **STEP IV.** Define the urban configuration
 - **STEP V.** Pick the matching components from the toolbox

PHASE 3.
THIRD LEVEL OF CONSTUMIZING

- INHABITANTS ADDITIONS**
- **STEP I.** The possibly individual additions

PHASE 4.
READY TO BUILD UP THE VILLAGE

- TEAM DEVELOPER**
- **STEP I.** The permanent part of the building
 - **STEP I.** The convertible choices partly in participations with the inhabitants.

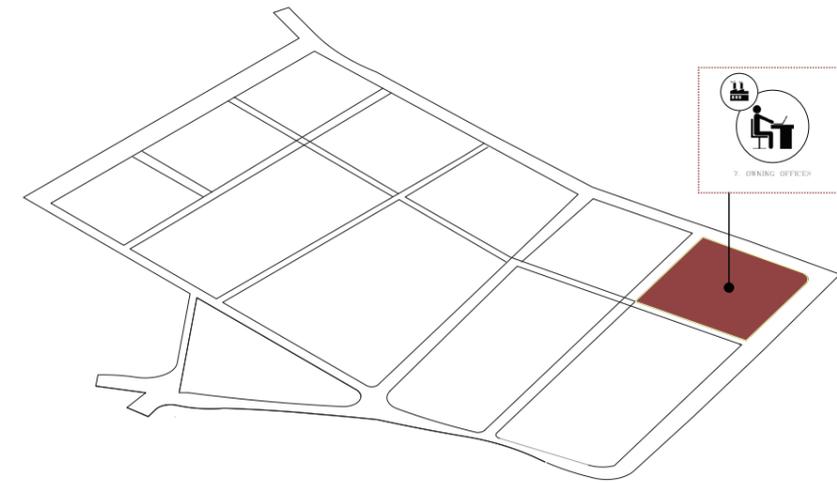
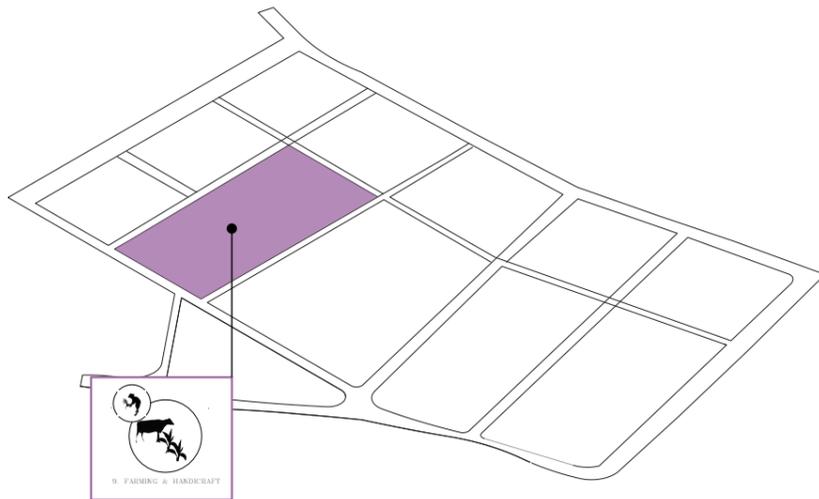
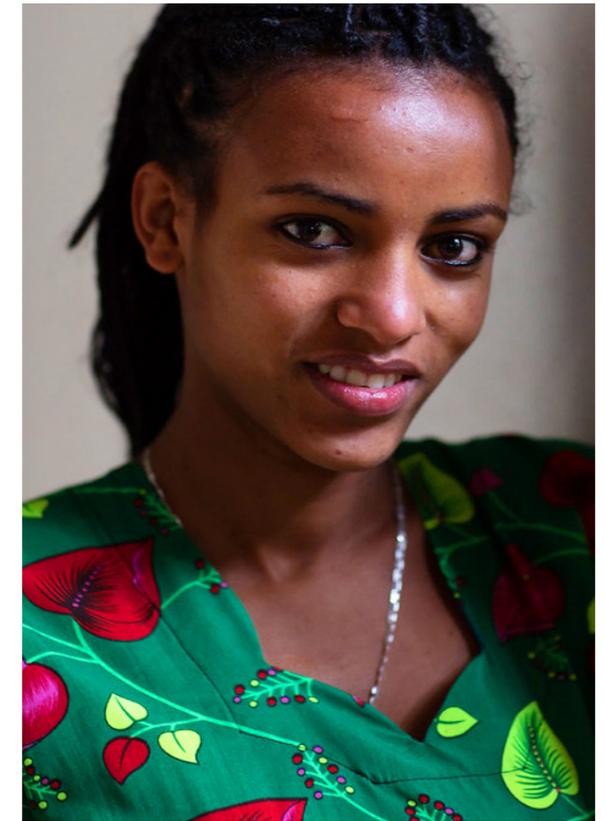
From generic urban design - to local announcement - to a well-defined, participatory adapted urban village

TEST THE APPROACH TWO URBAN VILLAGES

1



2



ENTERING RURAL
MIGRANTS

MIDDLE AND HIGH INCOME
INHABITANTS FROM ADDIS ABABA

PHASE 2

- STEP I. Organising events with groups of people

REPRESENTS BY

1



“

Hi! My name is Kia. Me and my family want to come to Addis Ababa. We have lived in a Borana village our entire lives. However, since I have children and a husband, the need for us to own more money in the future is starting to get quite important. The future in our village is not that promising for my children then I would wish. I want more chances for my children. For that reason, we decided to move to Addis Ababa. I would like to get acquainted with this urban development plan.



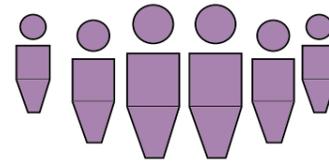
PHASE 2

- STEP II. Define the community of trust
- STEP III. Appointing a local team per village

LOCAL TEAM



1. LOCAL ARCHITECT



2. AGRICULTURAL COMMUNITY OF TRUST:

Strive for social mix

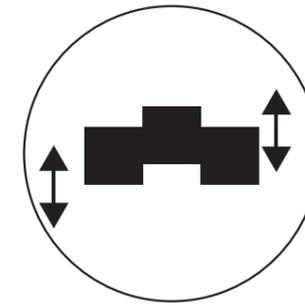
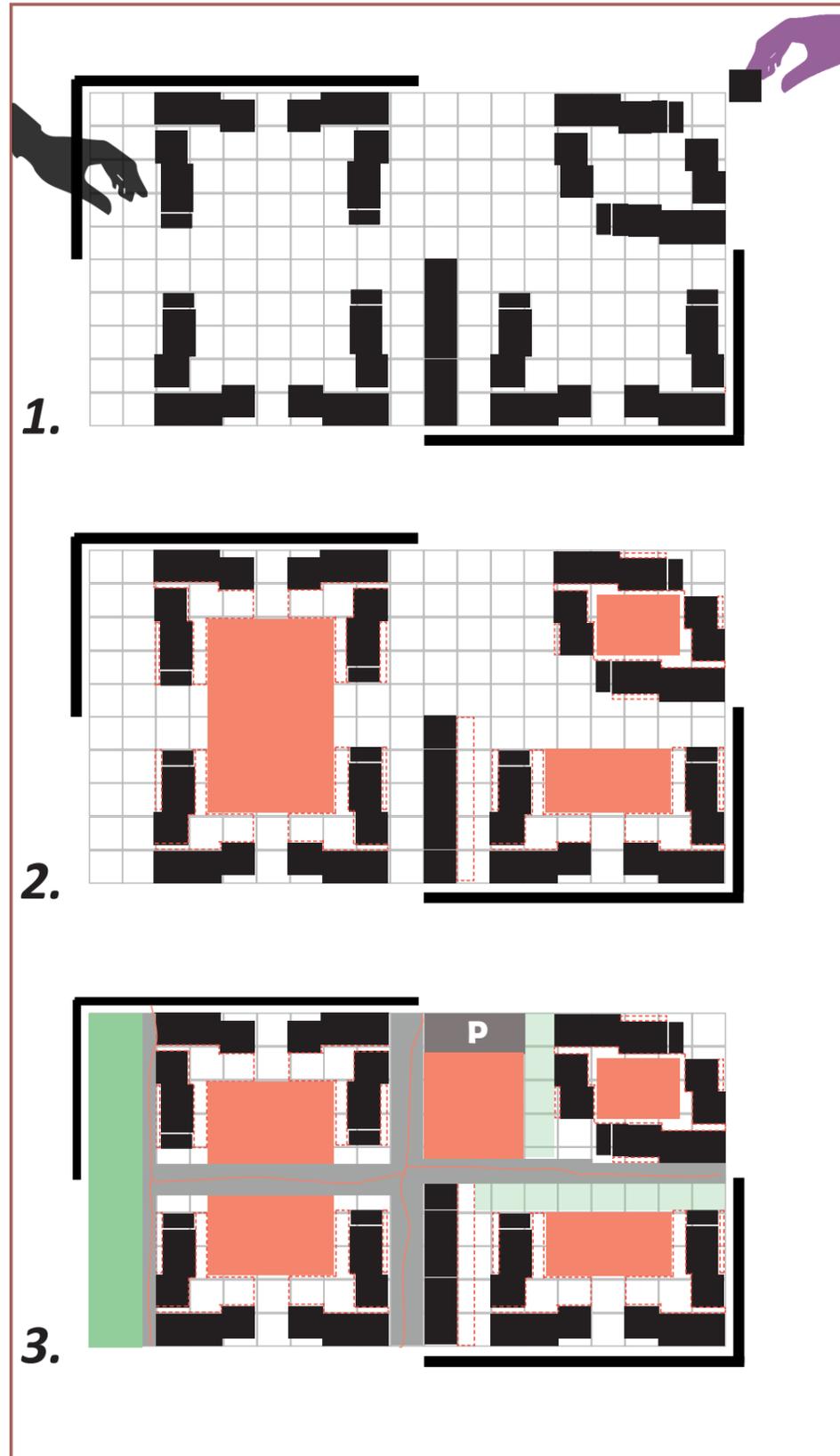
- 40 % OROMO
- 40 % AMHARA
- 20 % SOMALI
- LOW-MIDDLE AND HIGH INCOME



3. INVESTOR

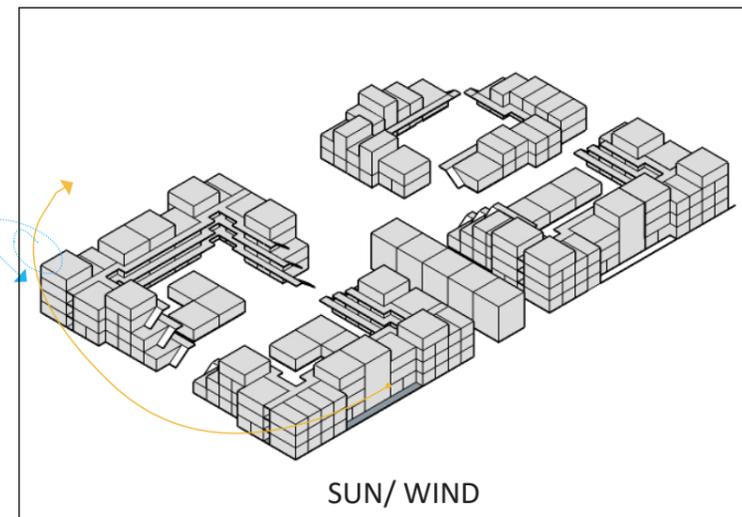
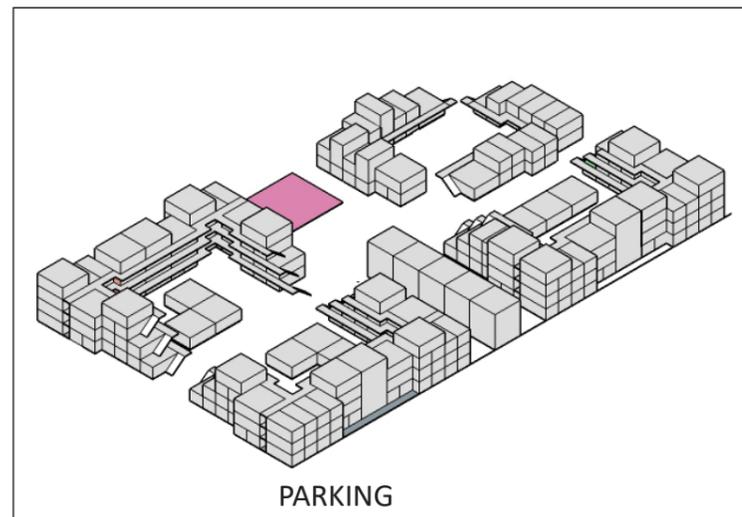
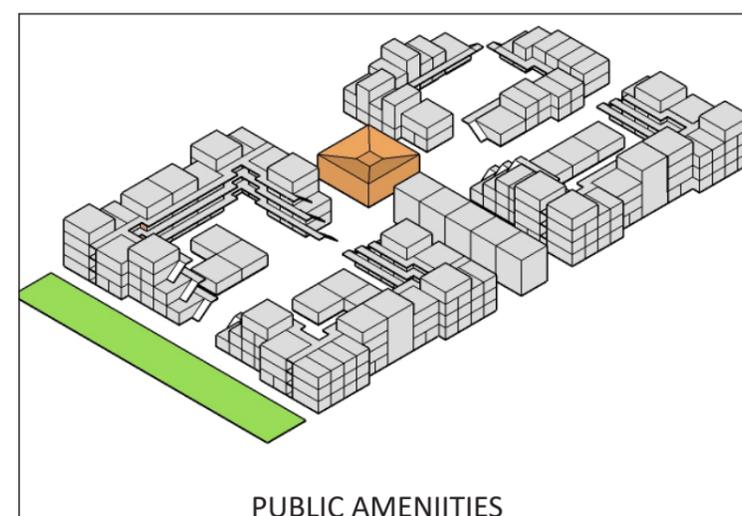
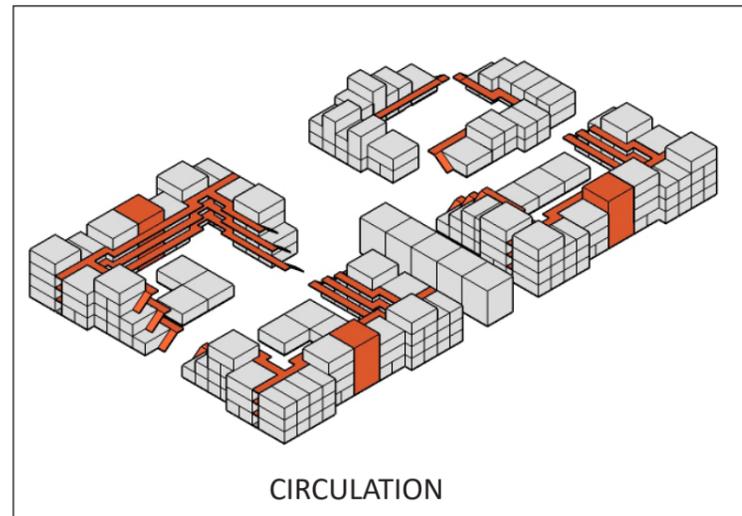
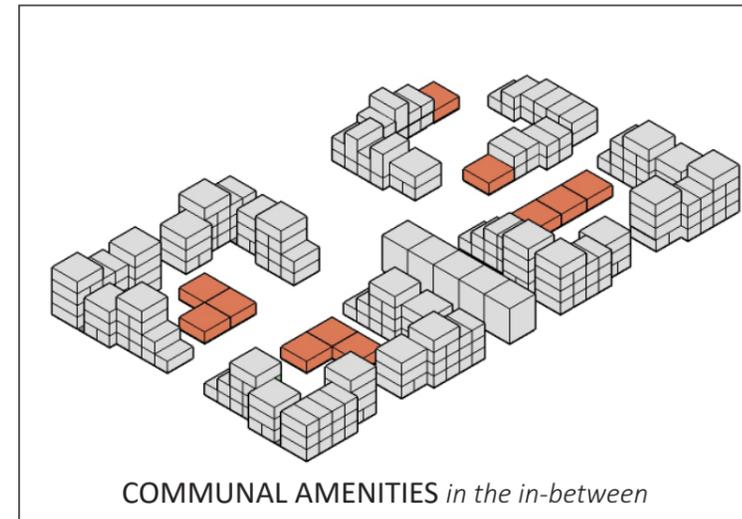
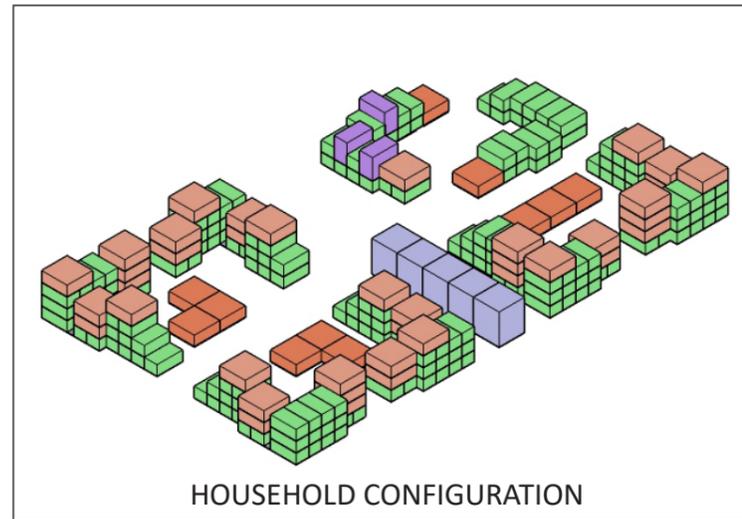
PHASE 2

- STEP IV. Define the urban configuration



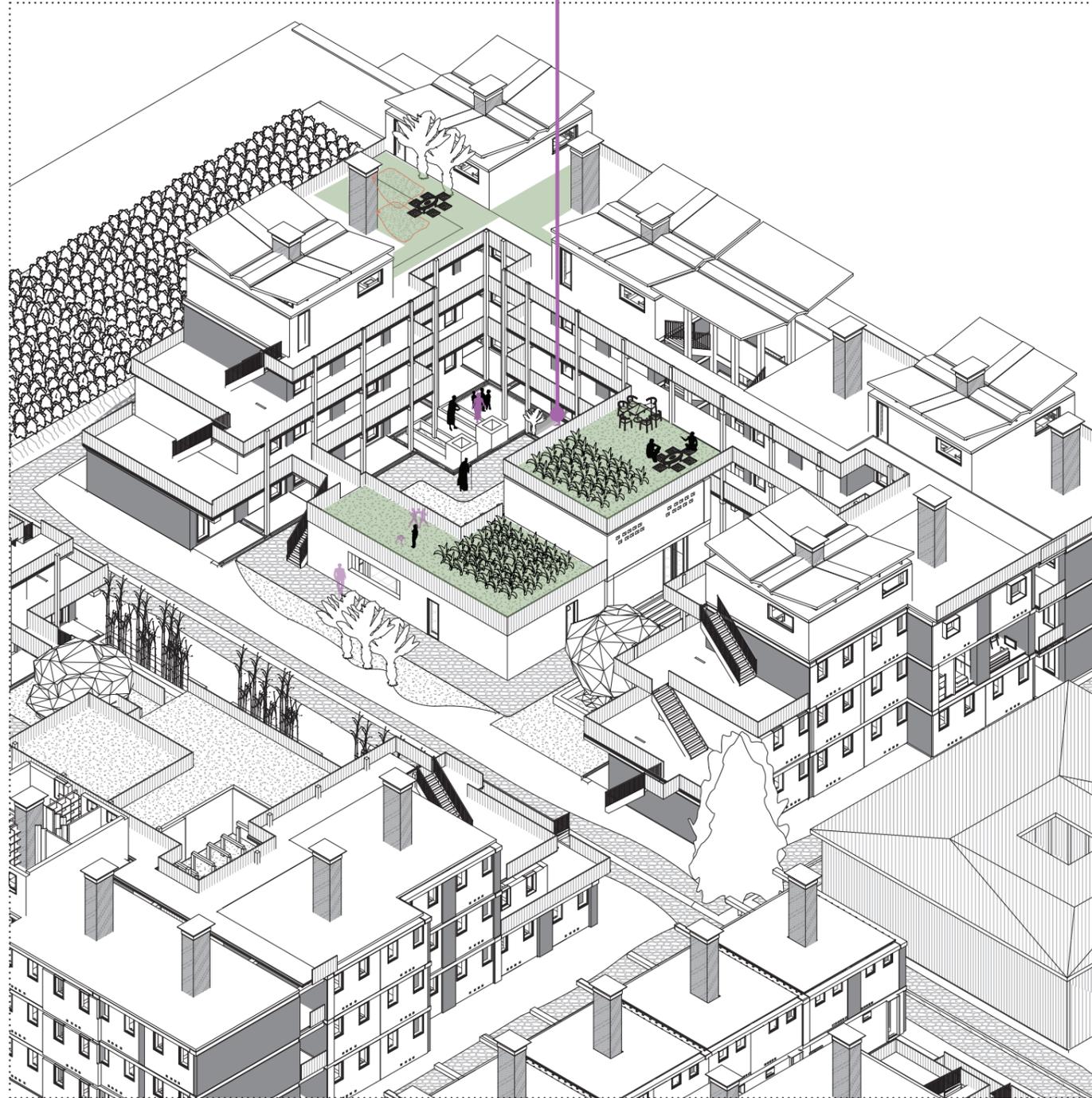
SHIFTING

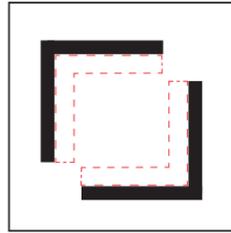
VILLAGE I DESIGN DIAGRAMS



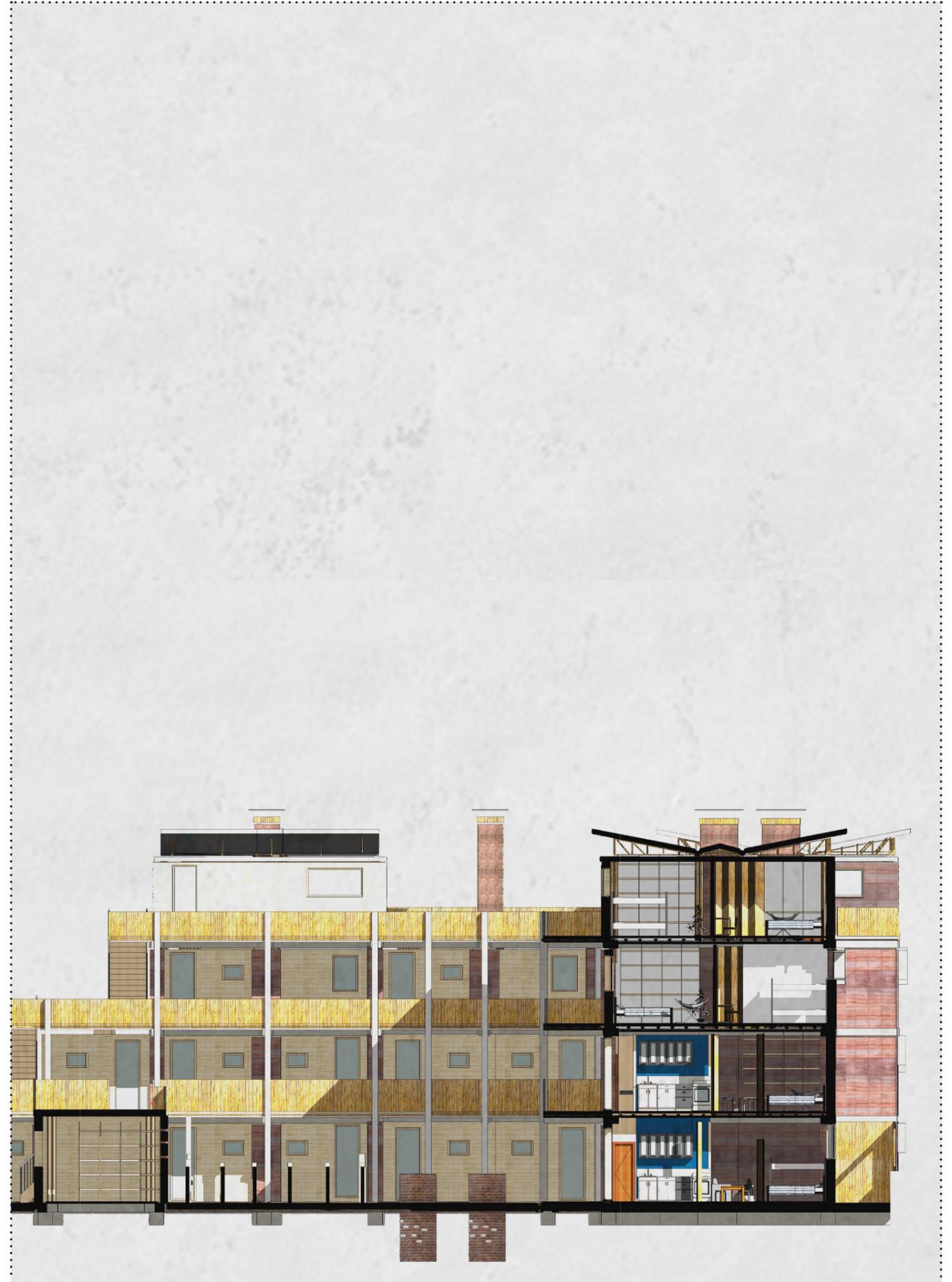
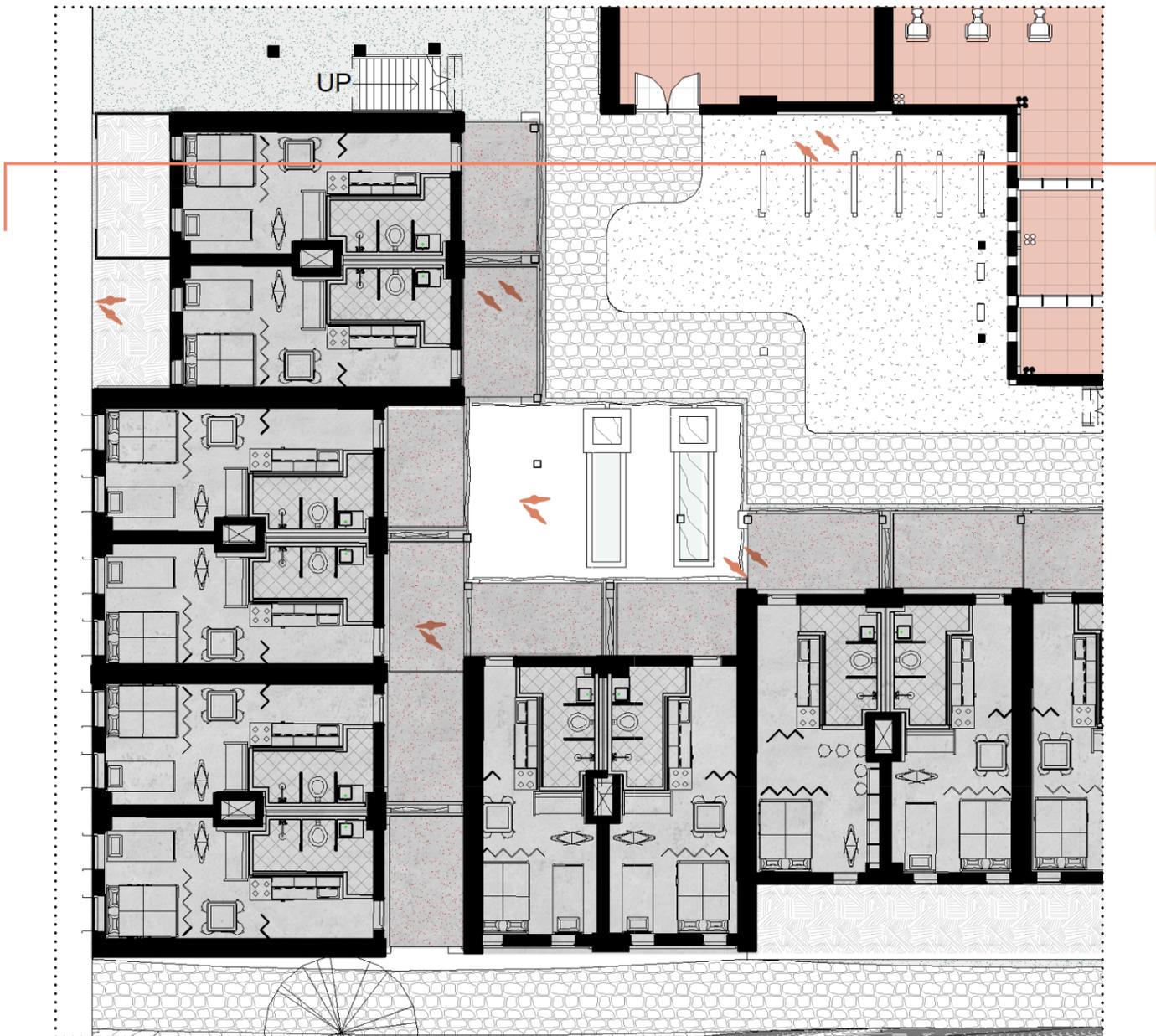
PHASE 2

- STEP V. Pick the matching components from the toolbox

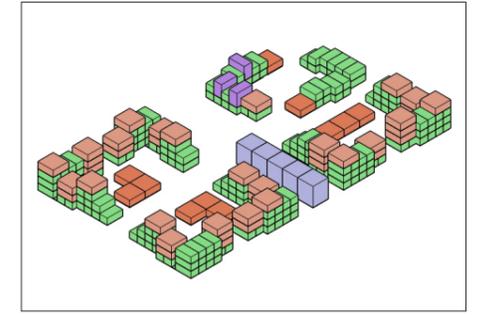




THE INTIME, PRIVATE SPHERES

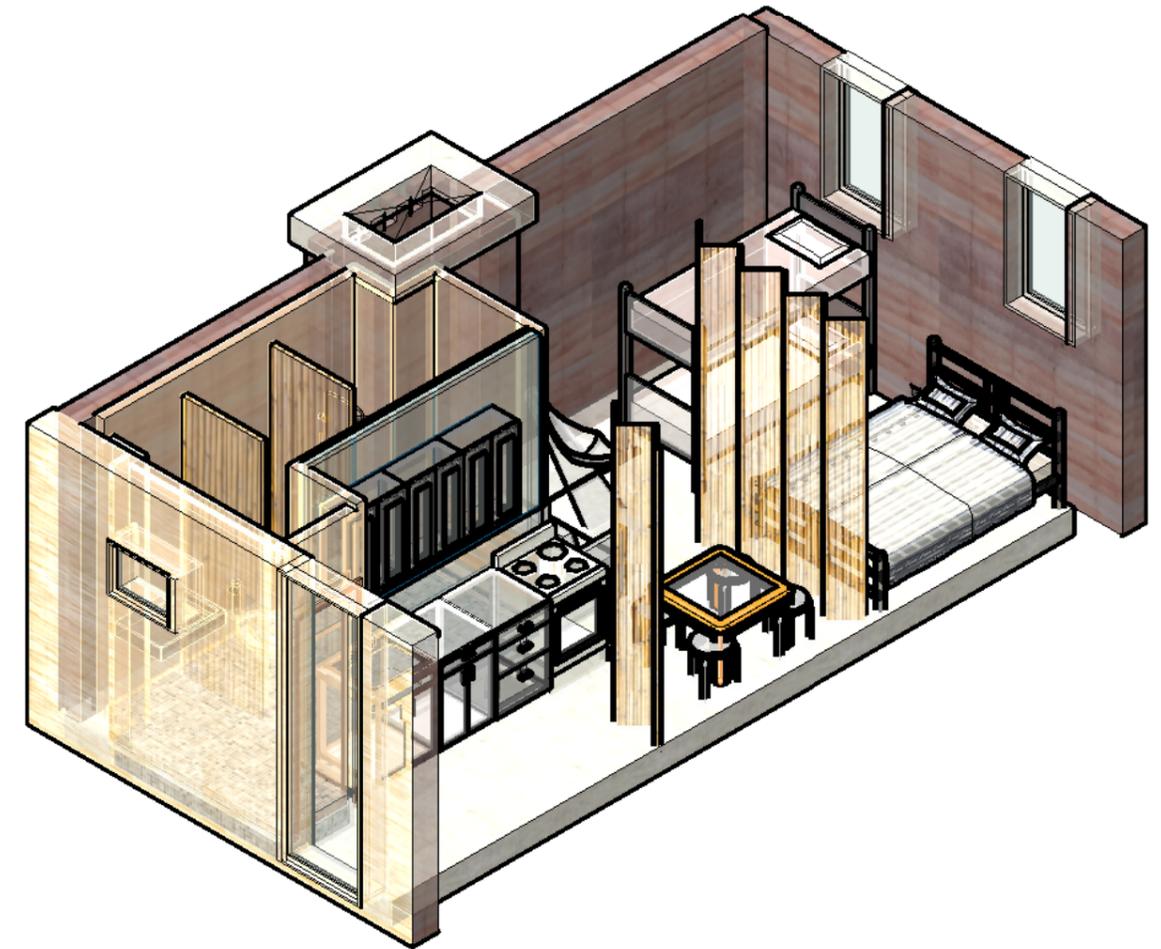
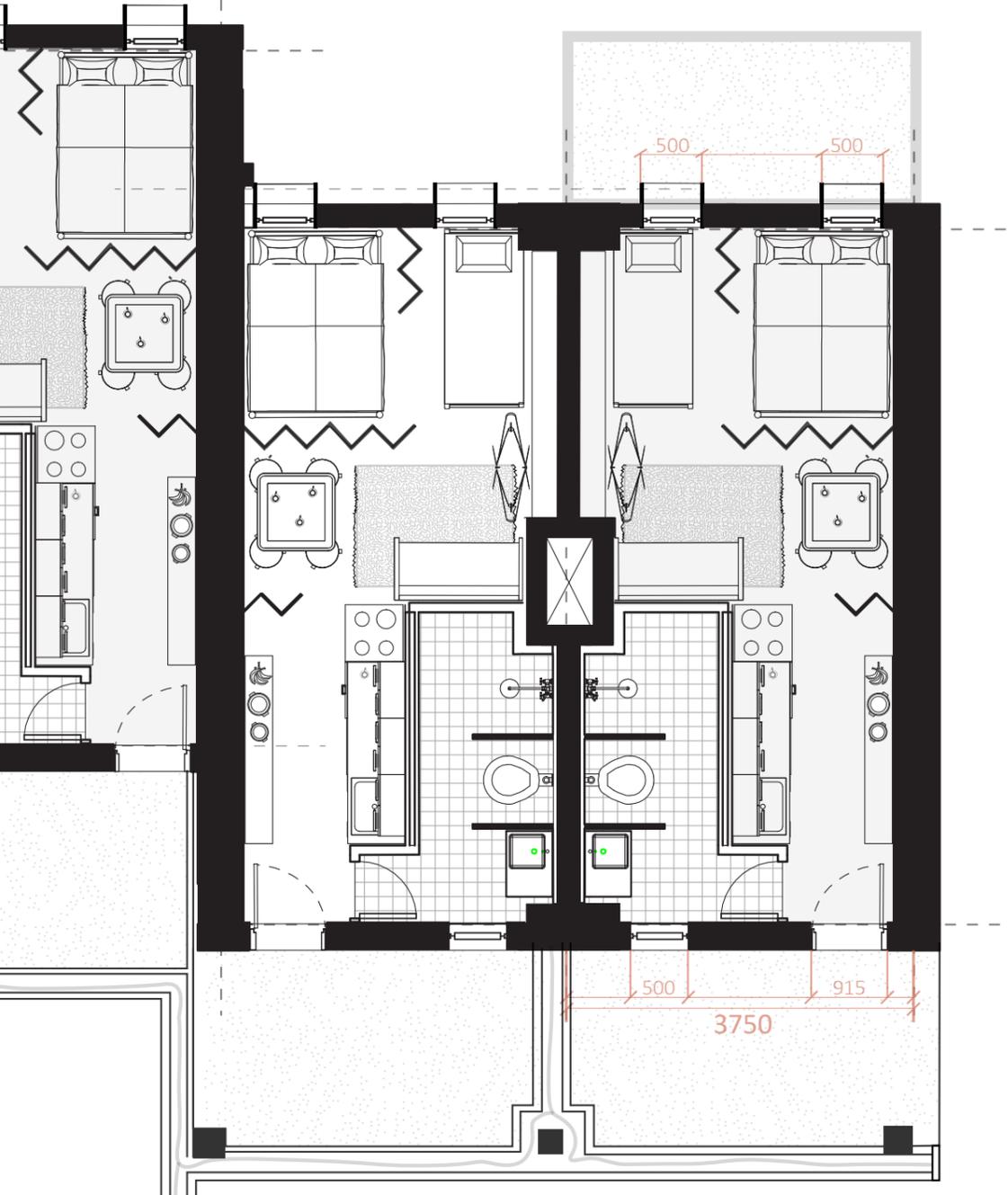


VILLAGE 1 LIVING AND SKIN

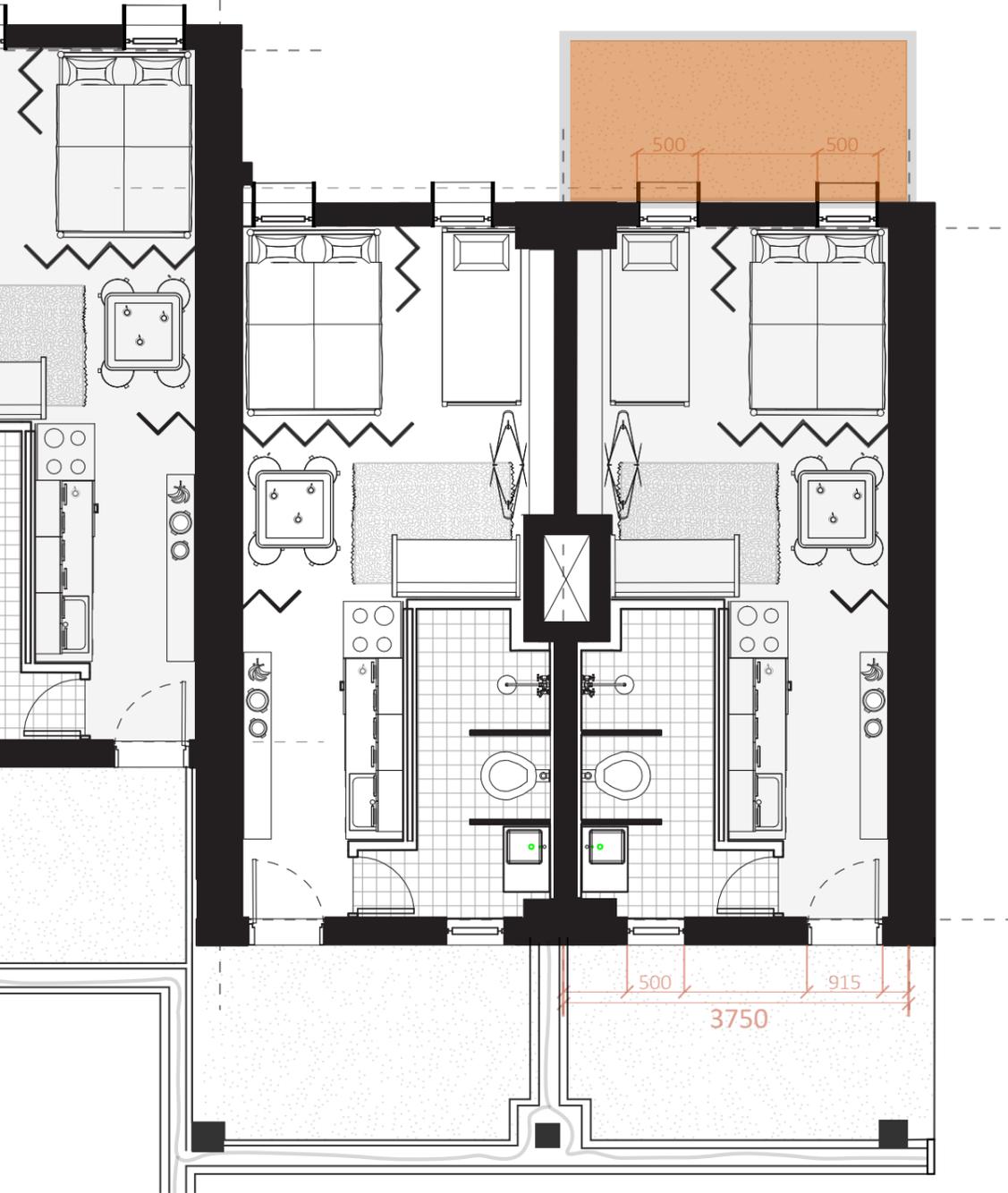
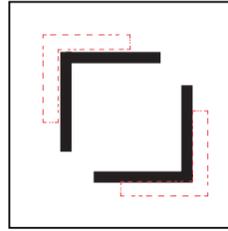


TYPE B APARTMENT KIA AND HER FAMILY

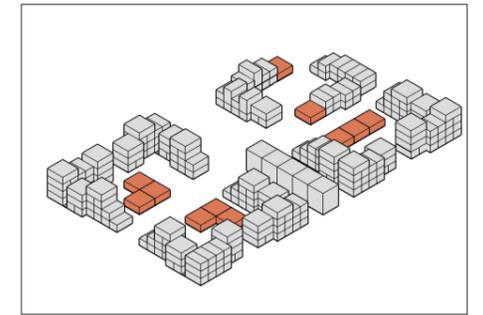
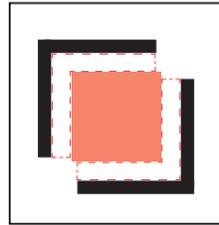
- Rental, Cross-subsidization
- Apartment: 28 m²



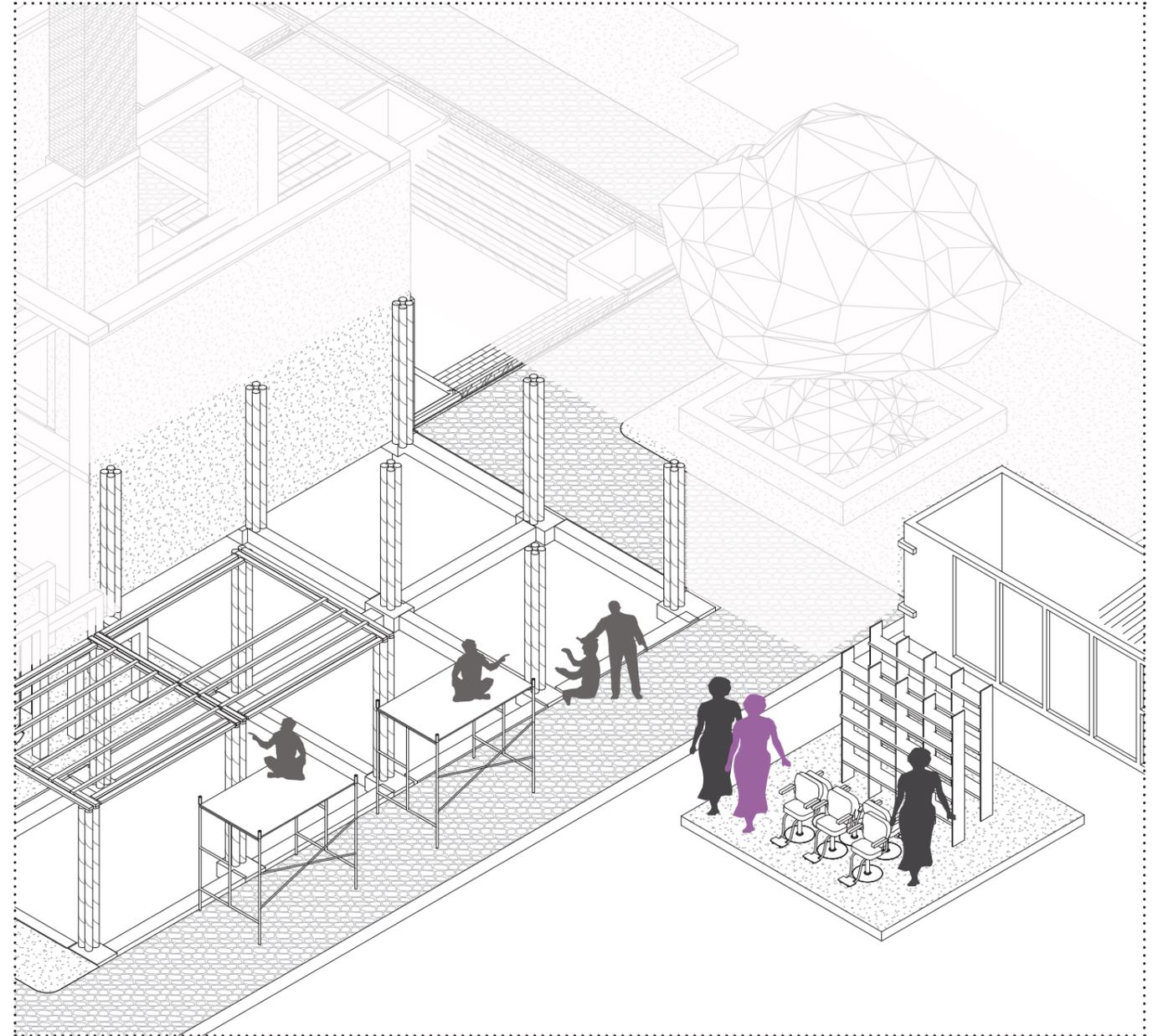
VILLAGE 1 BORDER

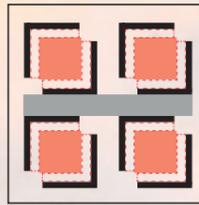


VILLAGE 1 THE IN-BETWEEN INFILL



HAIRDRESSER





THE ACTIVE INTERMEDIATE



URBAN VILLAGE 1 LIVEABLE ENVIRONMENT



URBAN VILLAGE II

From a secluded living towards joint efforts

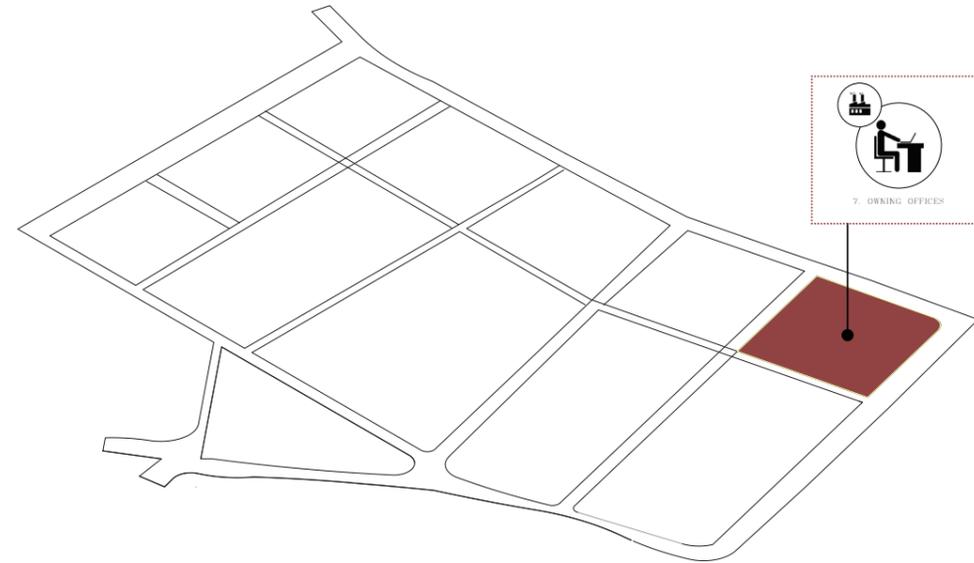


PHASE 2

- STEP I. Organising events with groups of people

REPRESENTS BY

2



“ Hi! My name is Desta. At this moment, I live in a Fenced off residential Complex in Addis. Previously, I had great contact with my surroundings. Especially Addis can be seen as a city in which there is no strict division between people in the city. However, because of the new built network of roads, I lost the contact with my surroundings. I’m unfortunately disconnected from the social mix what I just like the most about Addis. So I would like to promote social mix, I would like to invest in developments such as this one.

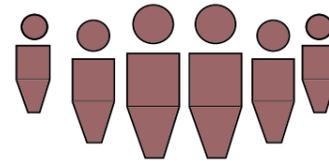
PHASE 2

- STEP II. Define the community of trust
- STEP III. Appointing a local team per village

LOCAL TEAM



1. LOCAL ARCHITECT



2. CO-WORKING COMMUNITY OF TRUST:

Strive for social mix

- MIDDLE TO HIGH INCOME

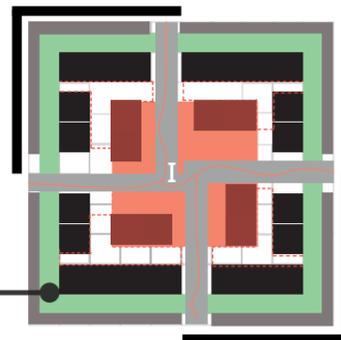
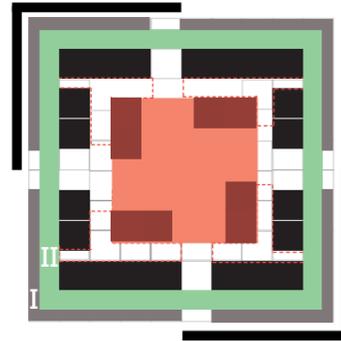
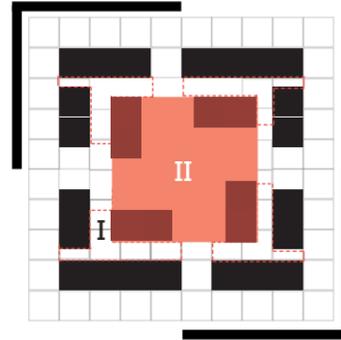
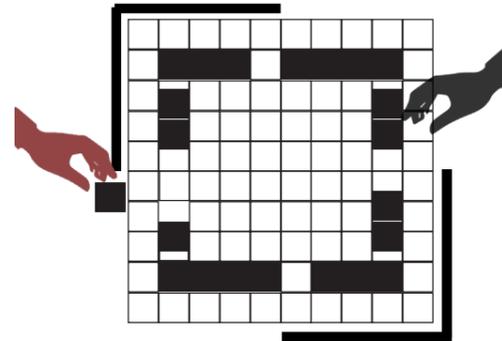
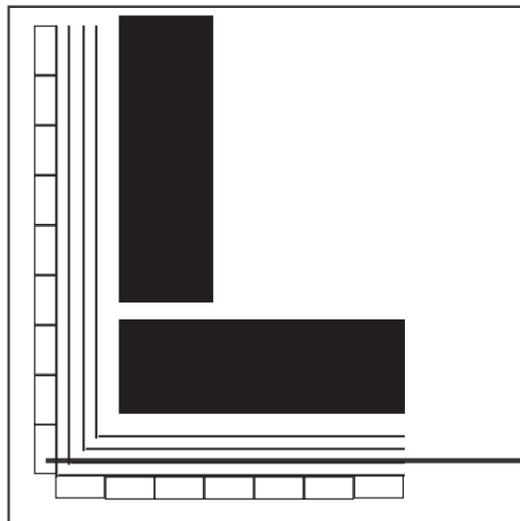


3. INVESTOR

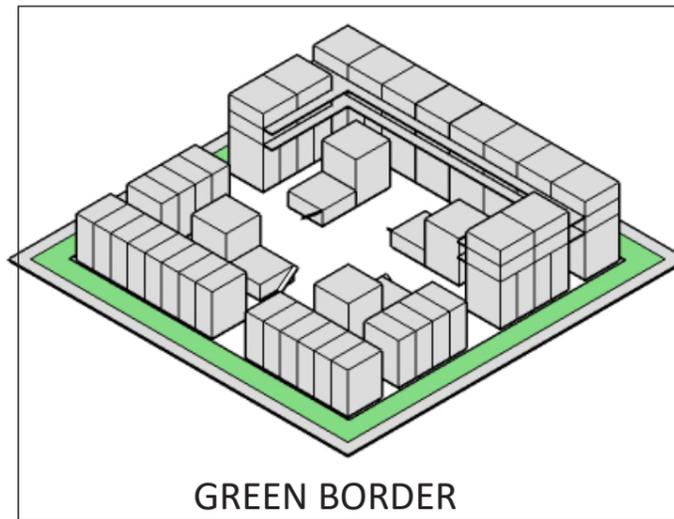
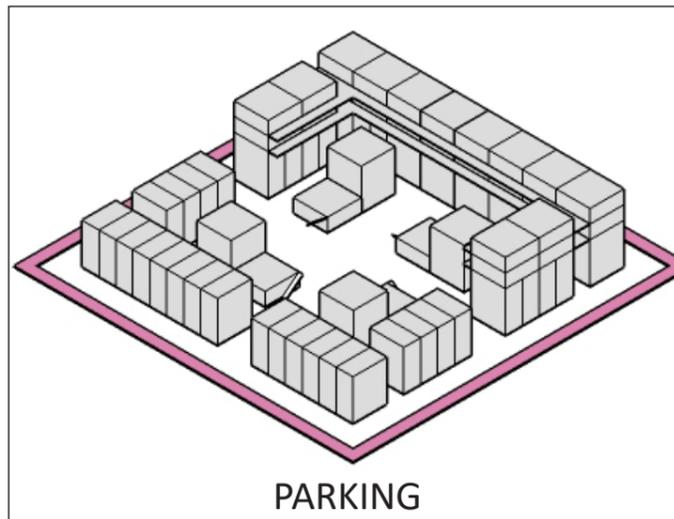
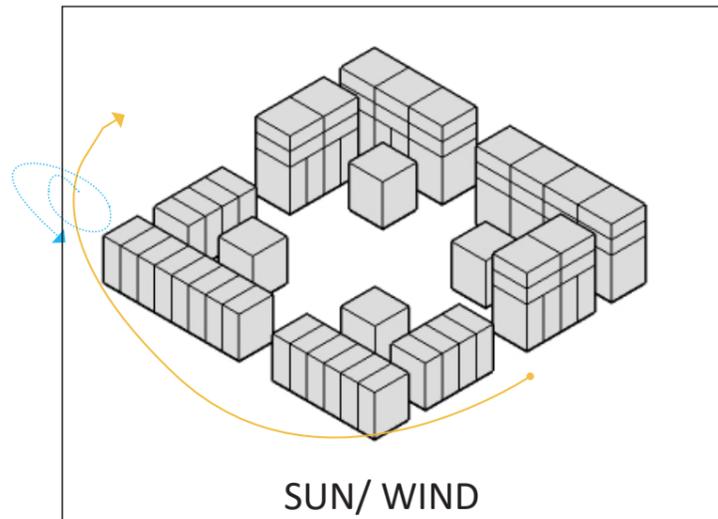
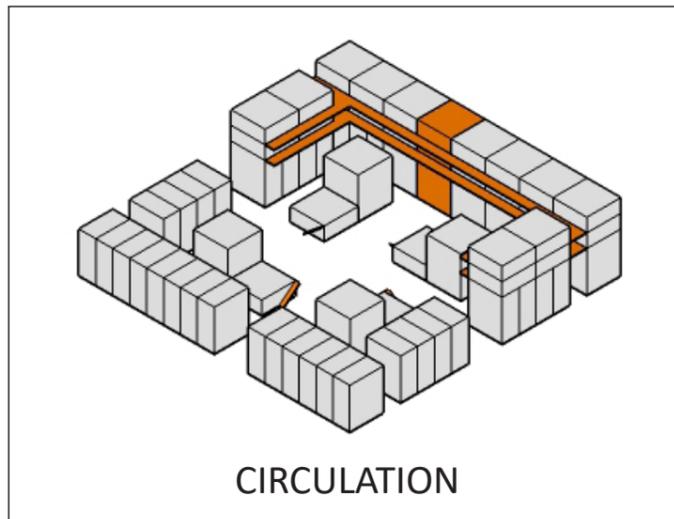
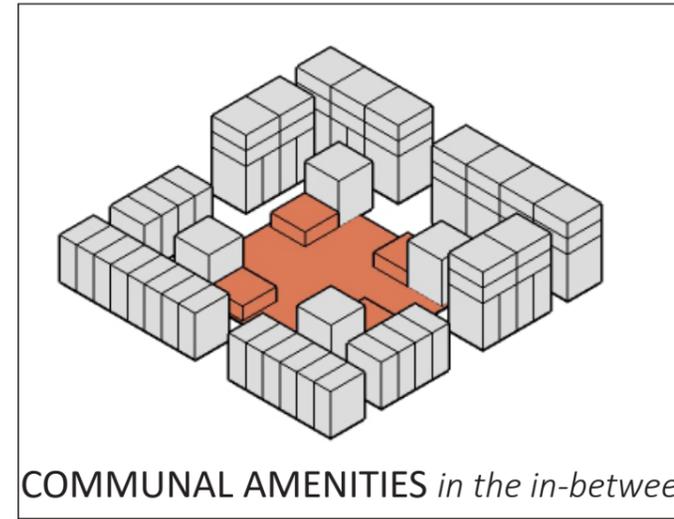
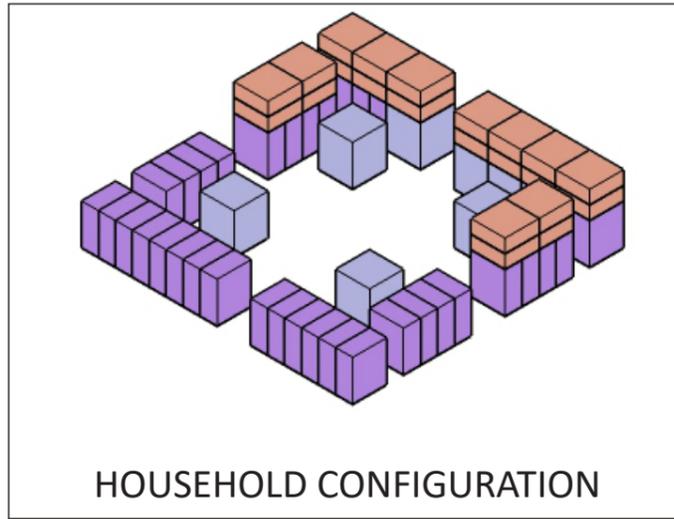
PHASE 2

- STEP IV. Define the urban configuration

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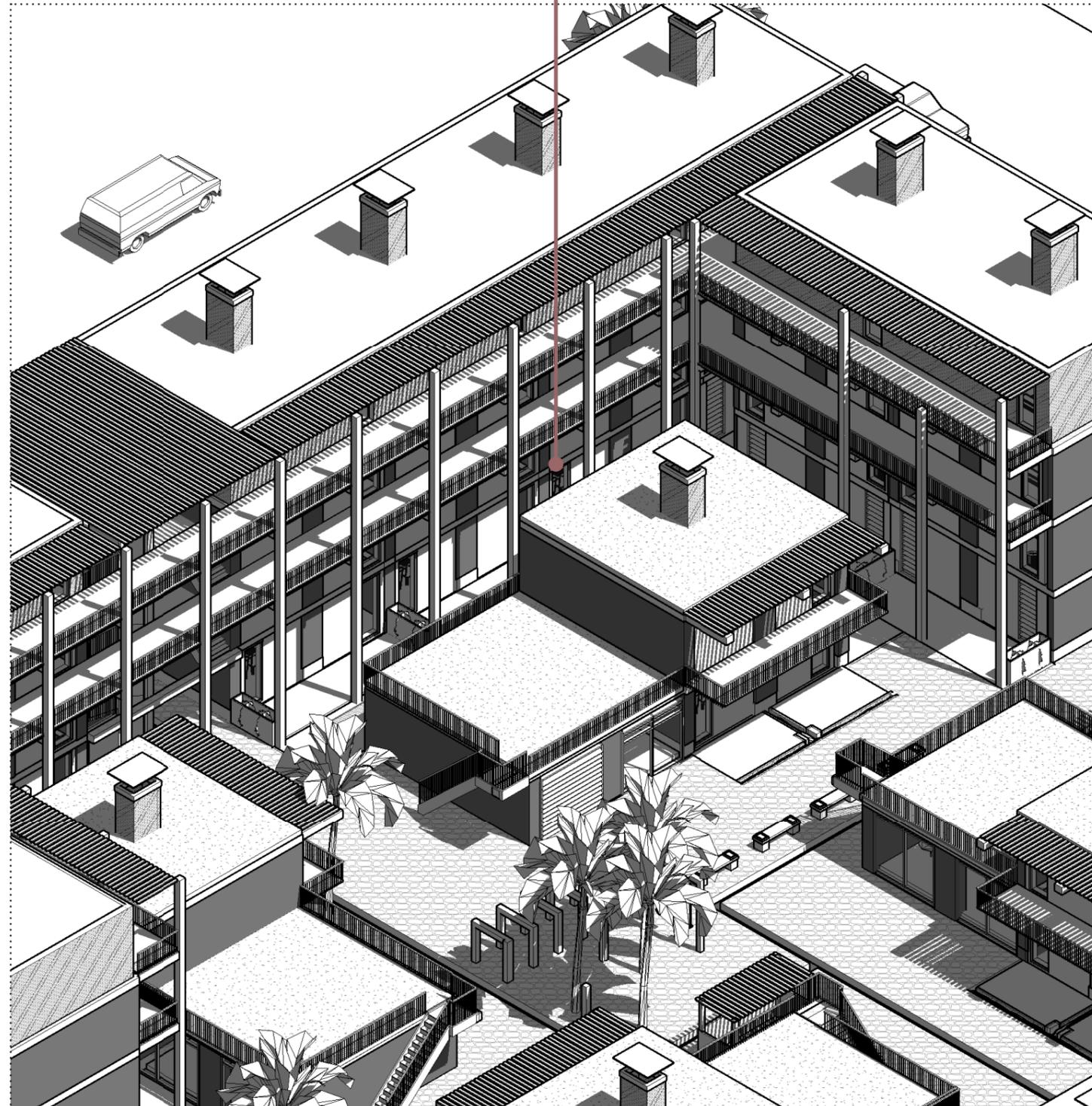


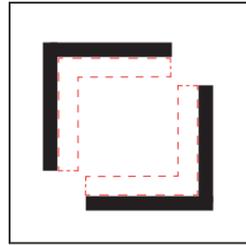
VILLAGE II DESIGN DIAGRAMS



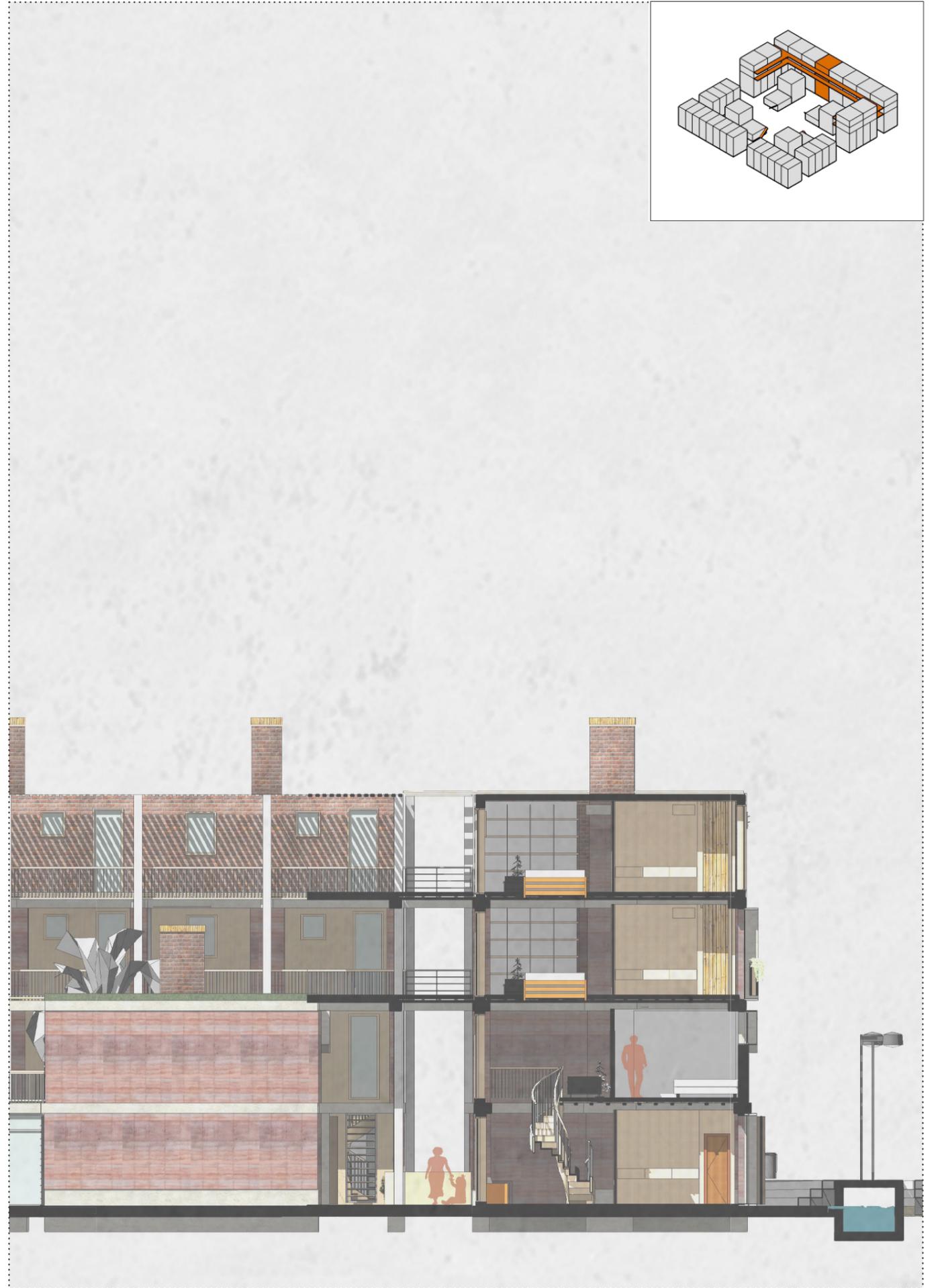
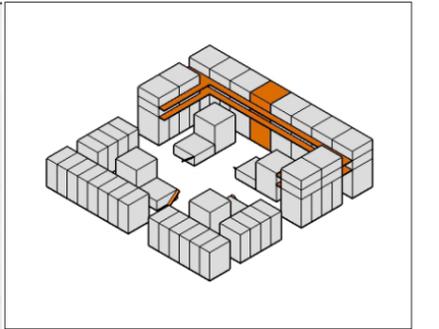
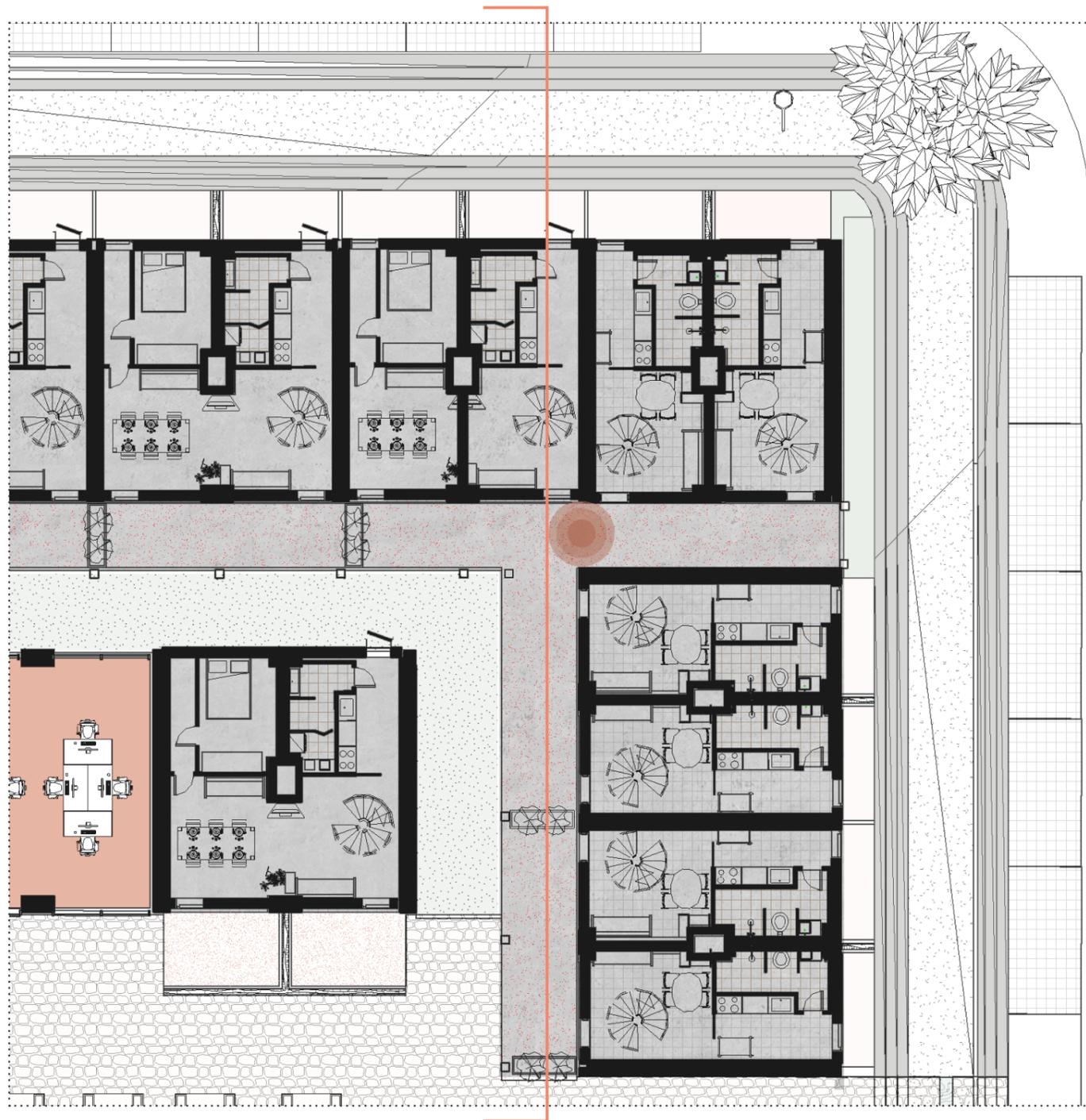
PHASE 2

- STEP V. Pick the matching components from the toolbox





THE INTIME, PRIVATE SPHERES

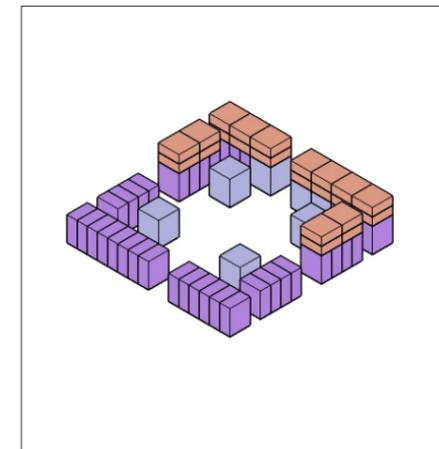
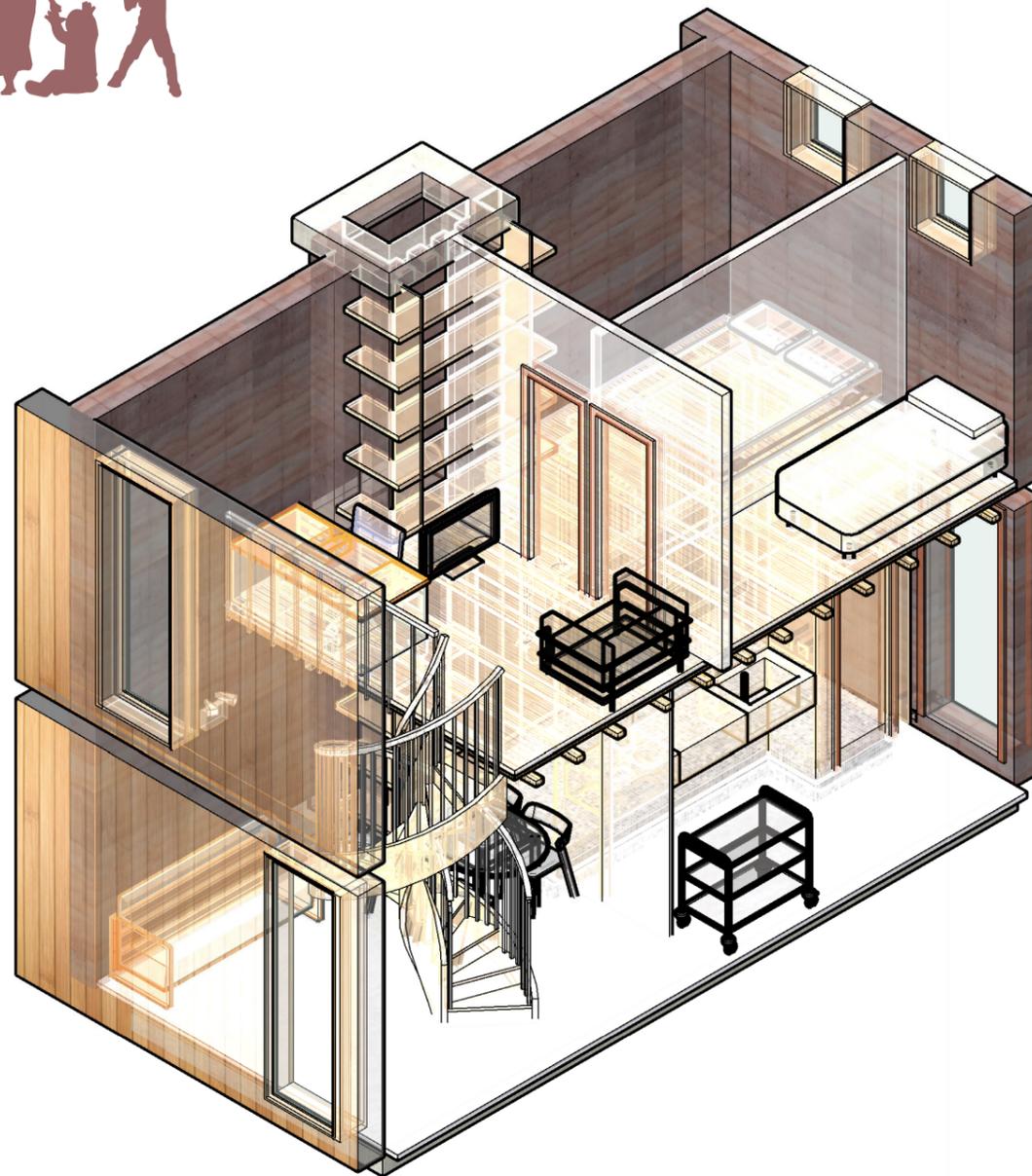


VILLAGE 2 LIVING AND SKIN



TYPE C APARTMENT DESTA

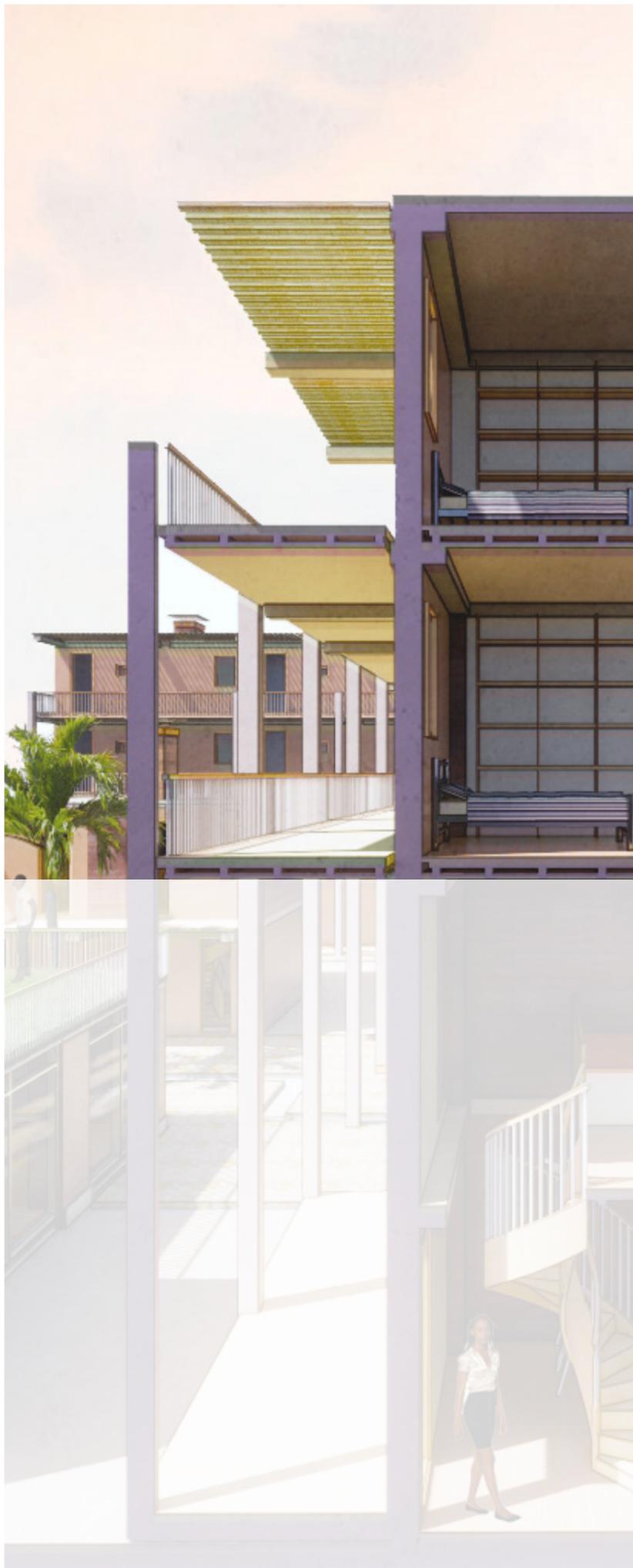
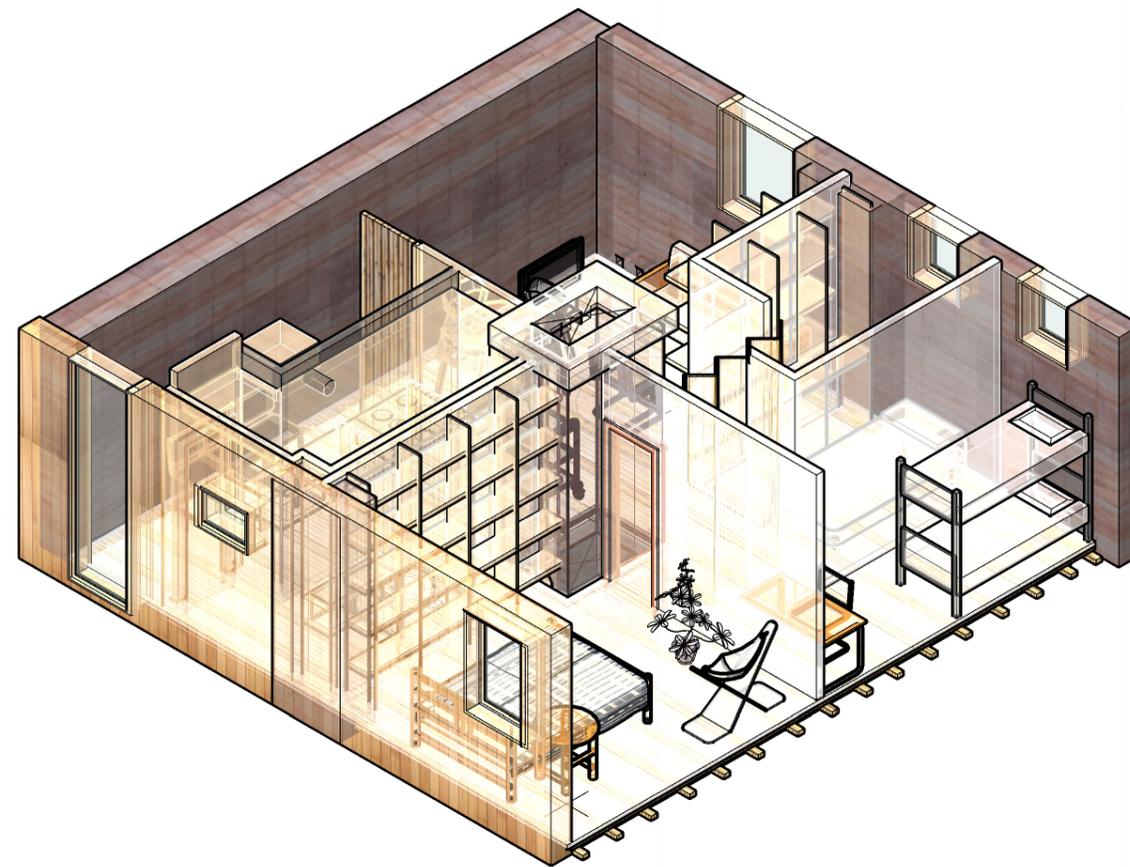
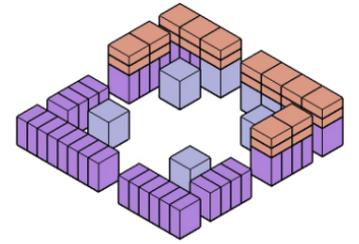
- Own, Cross-subsidization
- Apartment: 56 m²

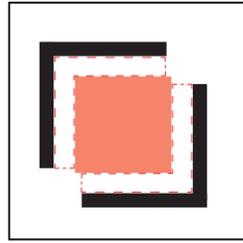


VILLAGE 2 APARTMENTS UPPER FLOORS

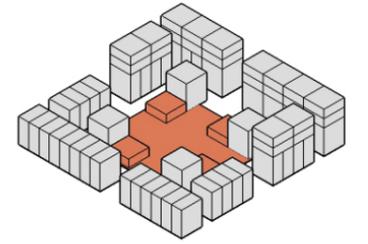
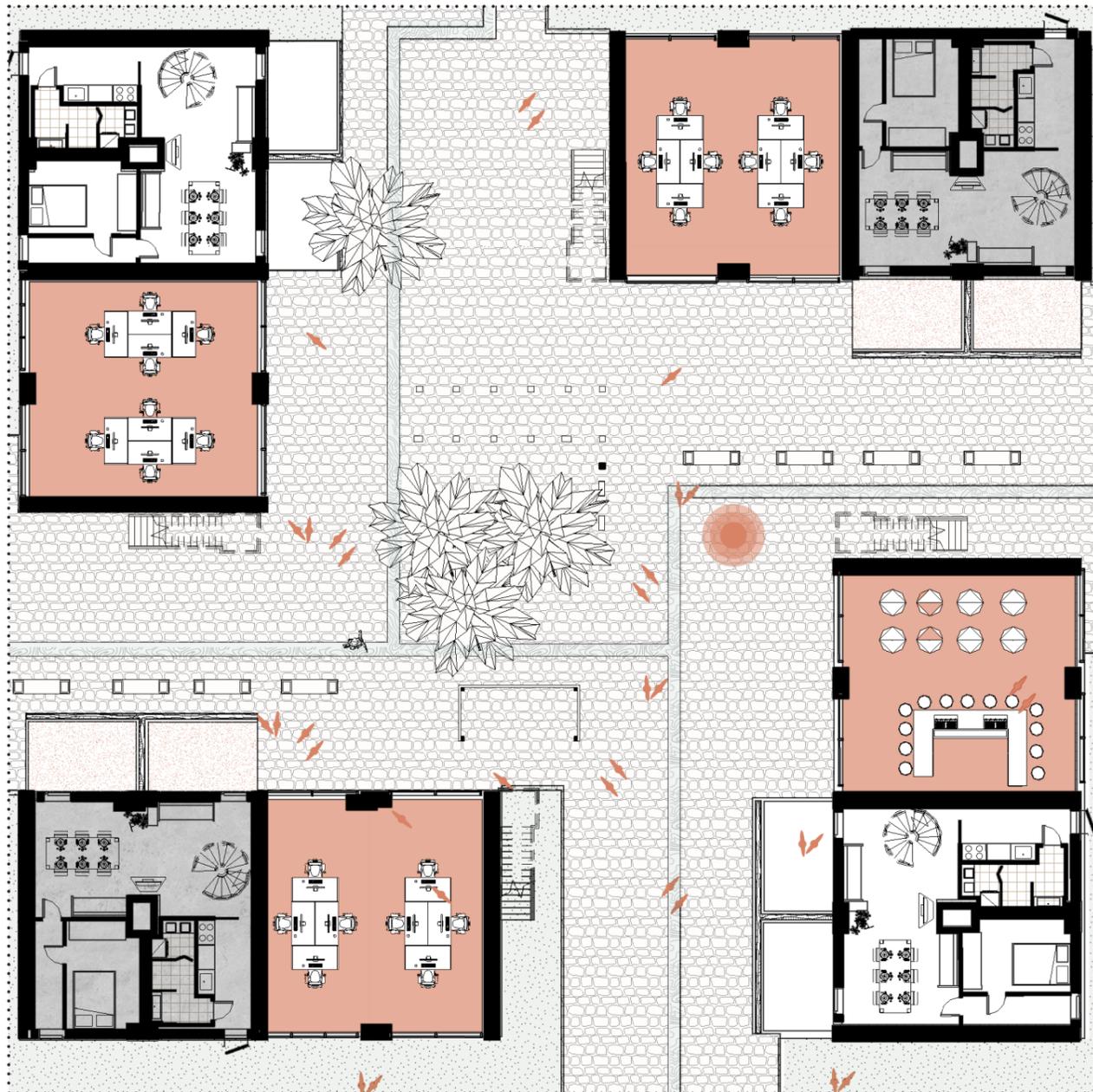
TYPE B APARTMENT

- Own/ Rent
- Apartment: 56 m²

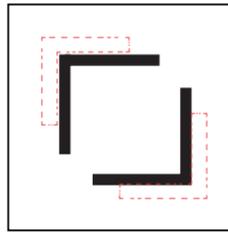




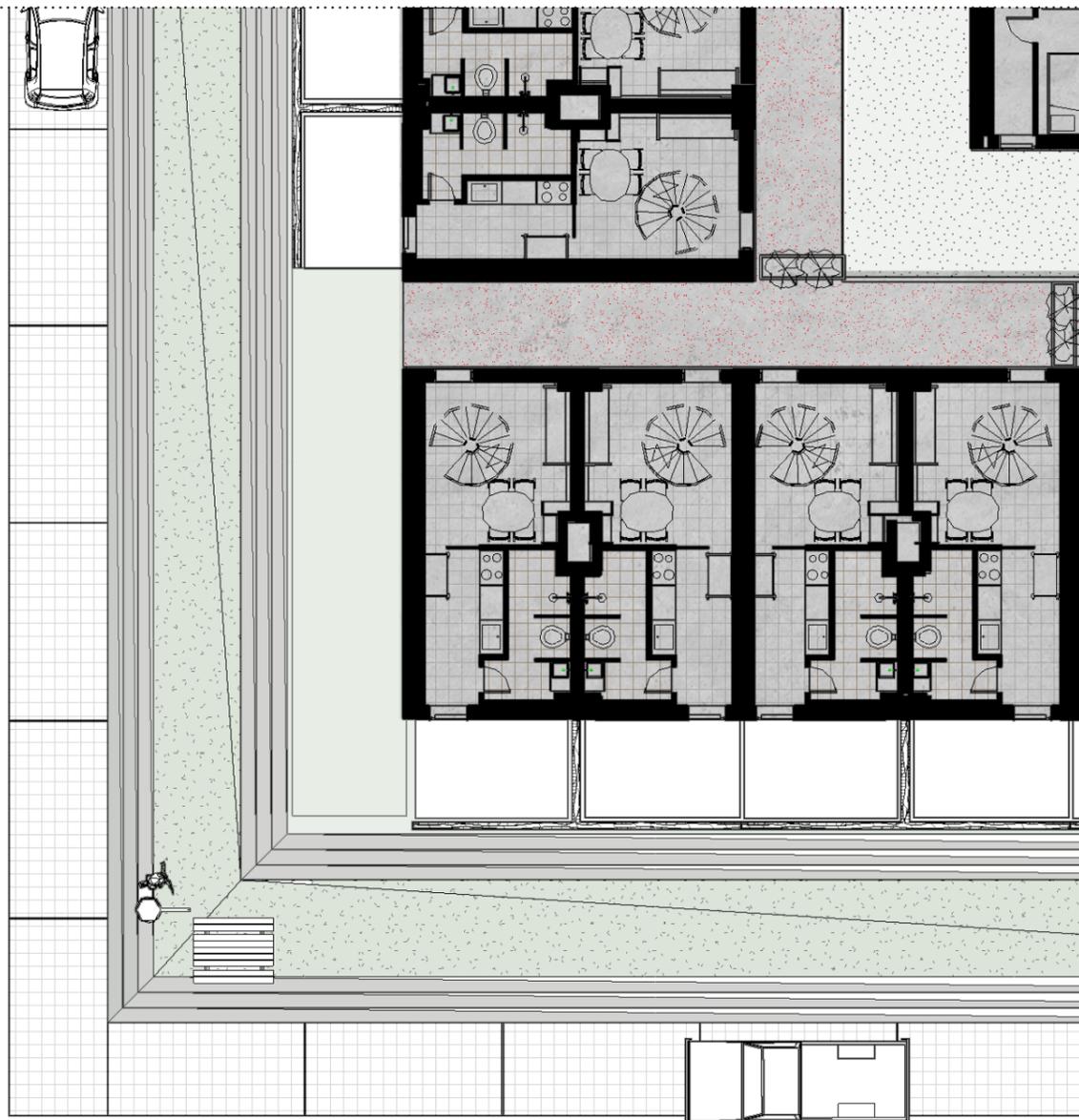
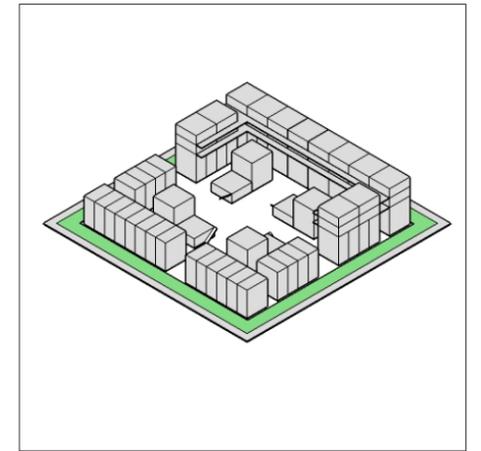
THE IN-BETWEEN INFILL



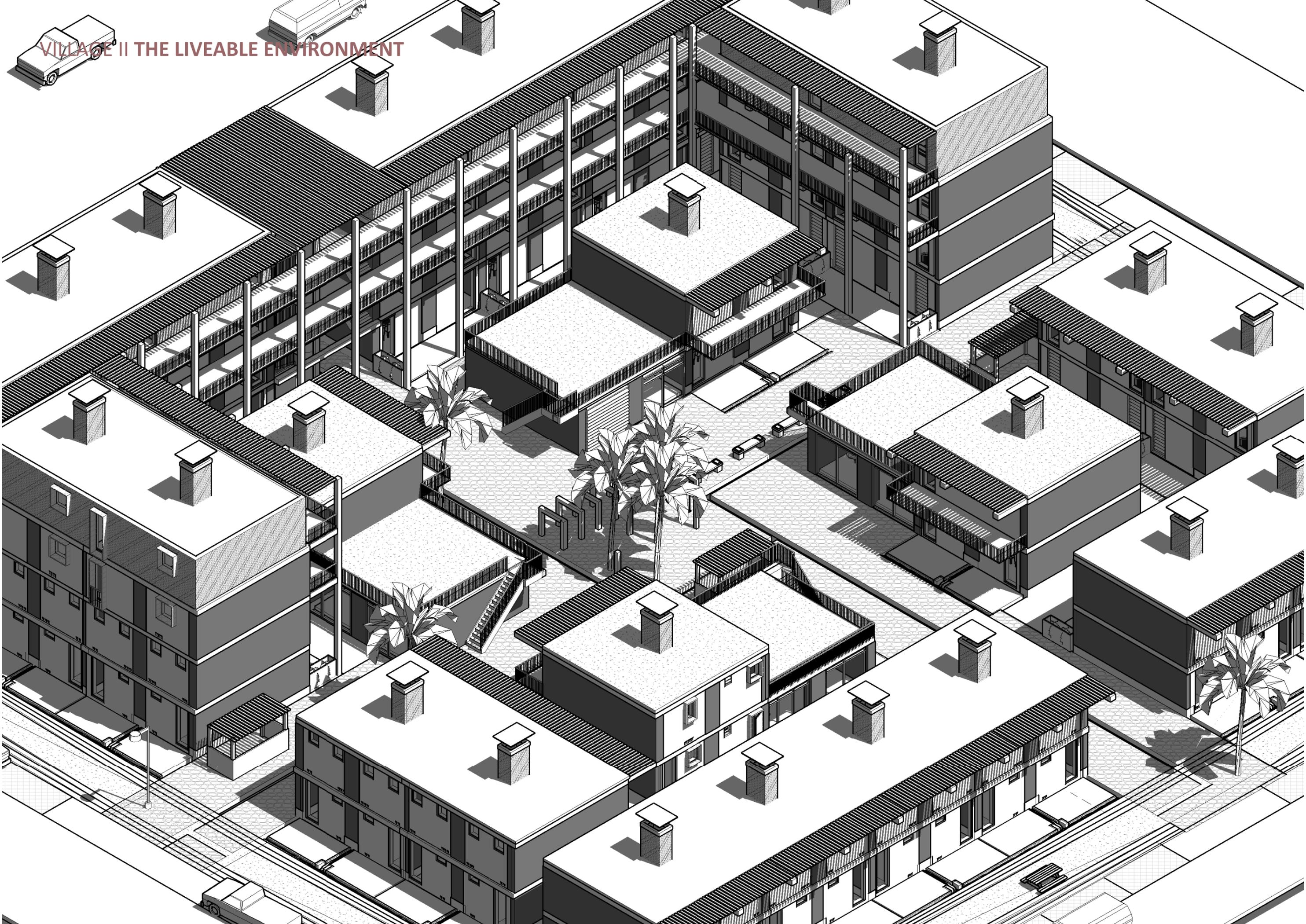




THE PLEASANT BORDER



VILLAGE II THE LIVEABLE ENVIRONMENT



THE URBAN VILLAGES

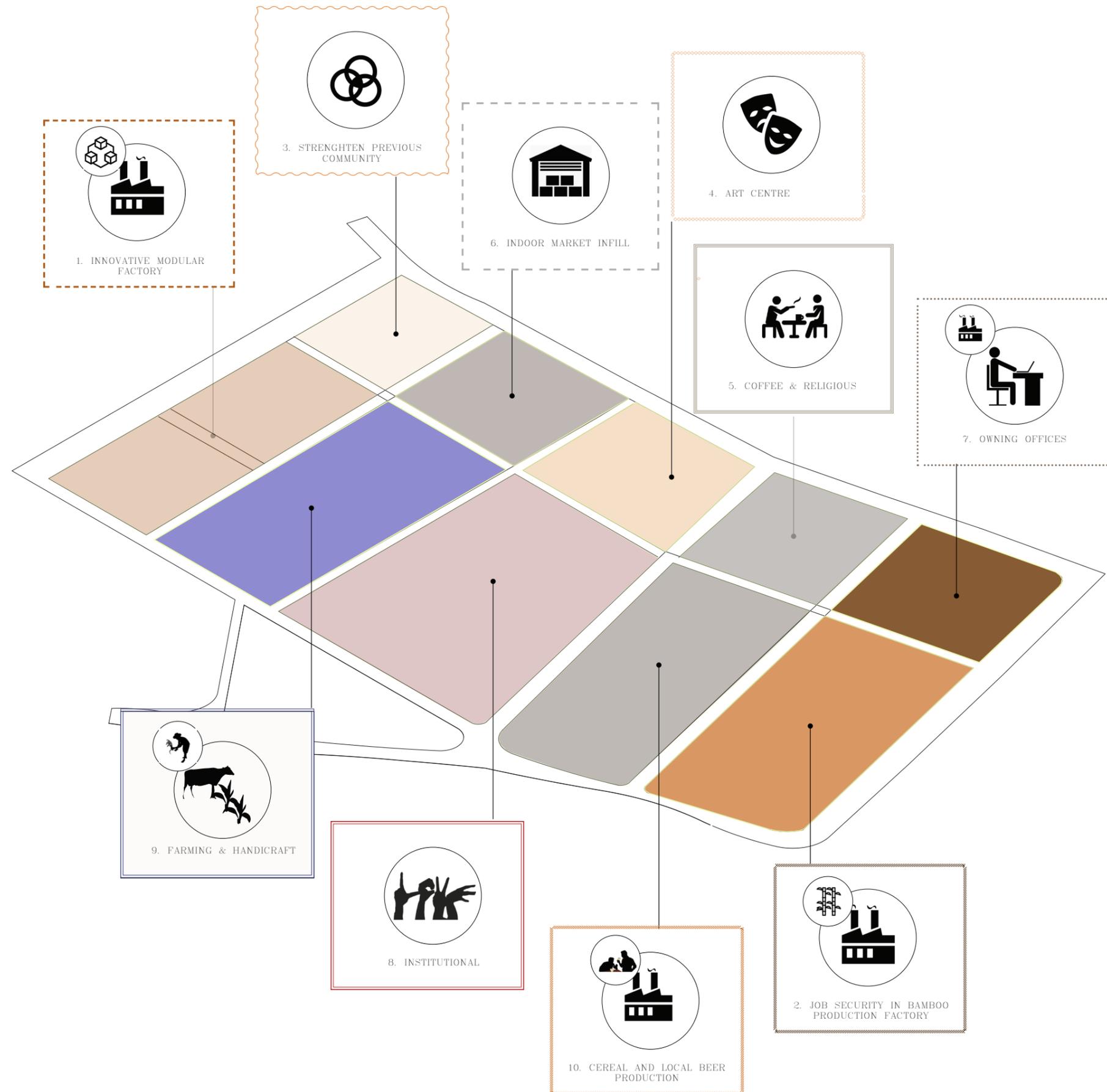
1



2



REMAINING PLOT



MASTERPLAN

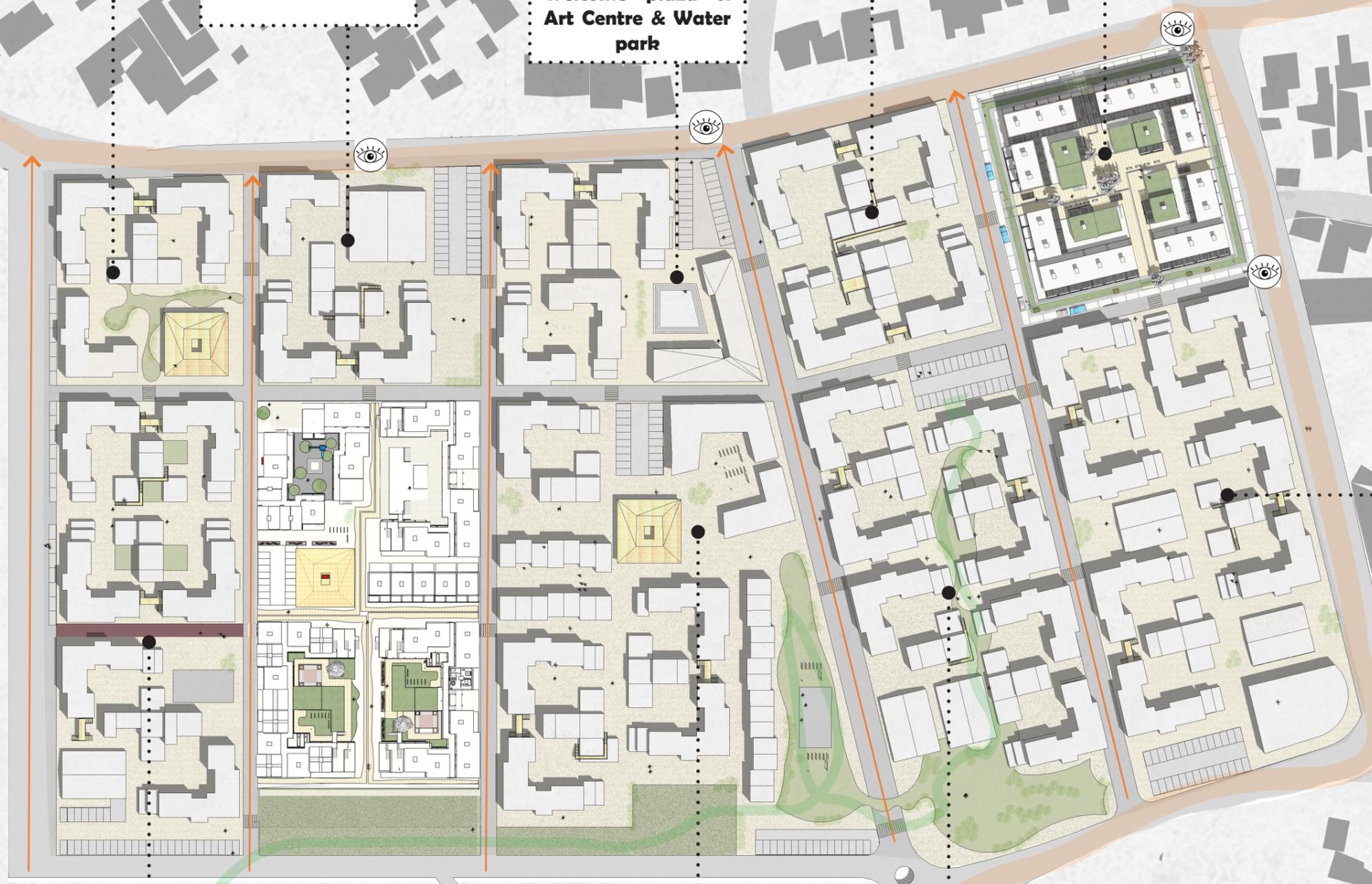
Community center

Indoor local market

Welcome plaza & Art Centre & Water park

Coffee zone

Office Pavilions



Beer & Crafts

Outdoor market & pedestrian route

Urban park

Education

Embracing local materials

MASTERPLAN



PHASE 1.

FIRST LEVEL OF DECISION-MAKING

TEAM OF SUPERVISORS

- ✓ **STEP I.** Subdivide the site into 10 urban villages.
- ✓ **STEP II.** Introducing the public amenities
- ✓ **STEP III** Set up the urban rules
- ✓ **STEP IV.** Developing the toolbox

PHASE 2.

SECOND LEVEL OF DECISION-MAKING

LOCAL TEAM VILLAGE

- ✓ **STEP I.** Organising events with groups of people
- ✓ **STEP II.** Define the community of trust for the village
- ✓ **STEP III.** Appointing a local team per village
- ✓ **STEP IV.** Define the urban configuration
- ✓ **STEP V.** Pick the matching components from the toolbox

PHASE 3.

THIRD LEVEL OF CONSTUMIZING

INHABITANTS ADDITIONS

- **STEP I.** The possibly individual additions

PHASE 4.

READY TO BUILD UP THE VILLAGE

TEAM DEVELOPER

- **STEP I.** The permanent part of the building
- **STEP I.** The convertible choices partly in participations with the inhabitants.

From generic urban design - to local announcement - to a well-defined, participatory adapted urban village

PHASE 1.
FIRST LEVEL OF DECISION-MAKING

TEAM OF SUPERVISORS

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PHASE 2.
SECOND LEVEL OF DECISION-MAKING

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PHASE 3.
THIRD LEVEL OF CONSTUMIZING

INHABITANTS ADDITIONS

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PHASE 4.
READY TO BUILD UP THE VILLAGE

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From generic urban design - to local announcement - to a well-defined, participatory adapted urban village

CONSTRUCTION TEAM

THE CONSORTIUM OF:



DEVELOPER



FUNDER



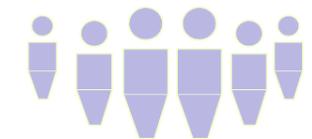
SKILLED BUILDERS



CONSTRUCTION
COMPANY



OPERATOR



LOCAL EMPLOYEES
/ FUTURE INHABITANTS

From generic urban design - to local announcement - to a well-defined, participatory adapted urban village

TO CONCLUDE

[RESEARCH QUESTION]

How could we reach a design that implements the aspirations of the inhabitants of Ethiopia, while avoiding romanticization and introducing an innovative way of urban mix for Addis Ababa?

THANK YOU FOR YOUR ATTENTION!

