

PROLOGUE: MY VIEW ON ADDIS ABABA

Kebele sefer Condominium Accessibility

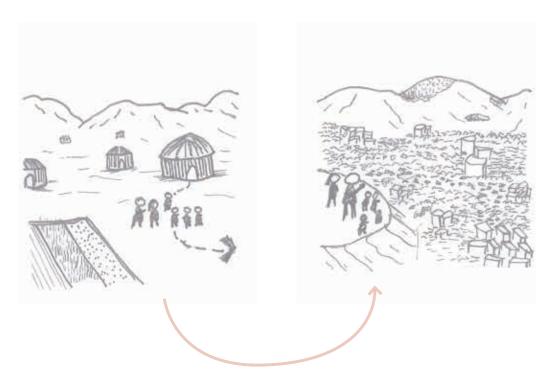
Open space?

PROLOGUE: MEET THE MAIN CHARACTERS:



Haile Kassahun - 40 years, 6 kids

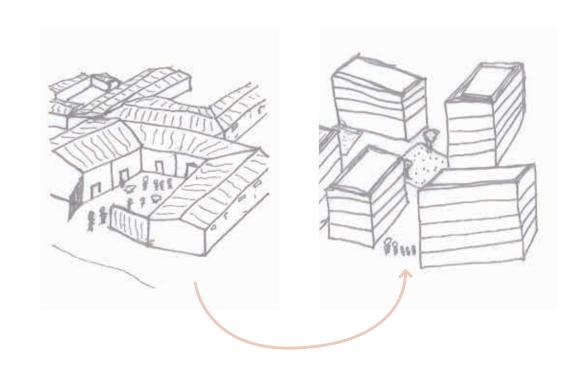
Rural Oromya -> Urban Addis





Betty Bekele - 30 years

Kebele -> condominium

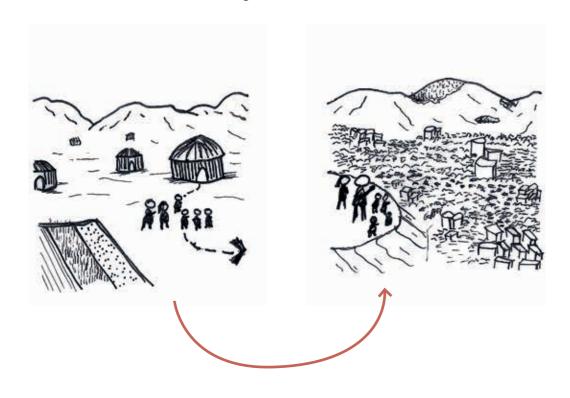


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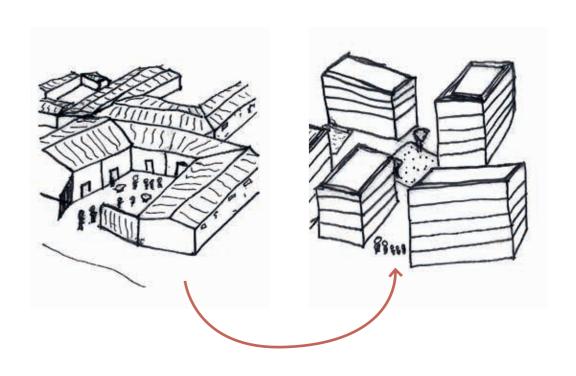
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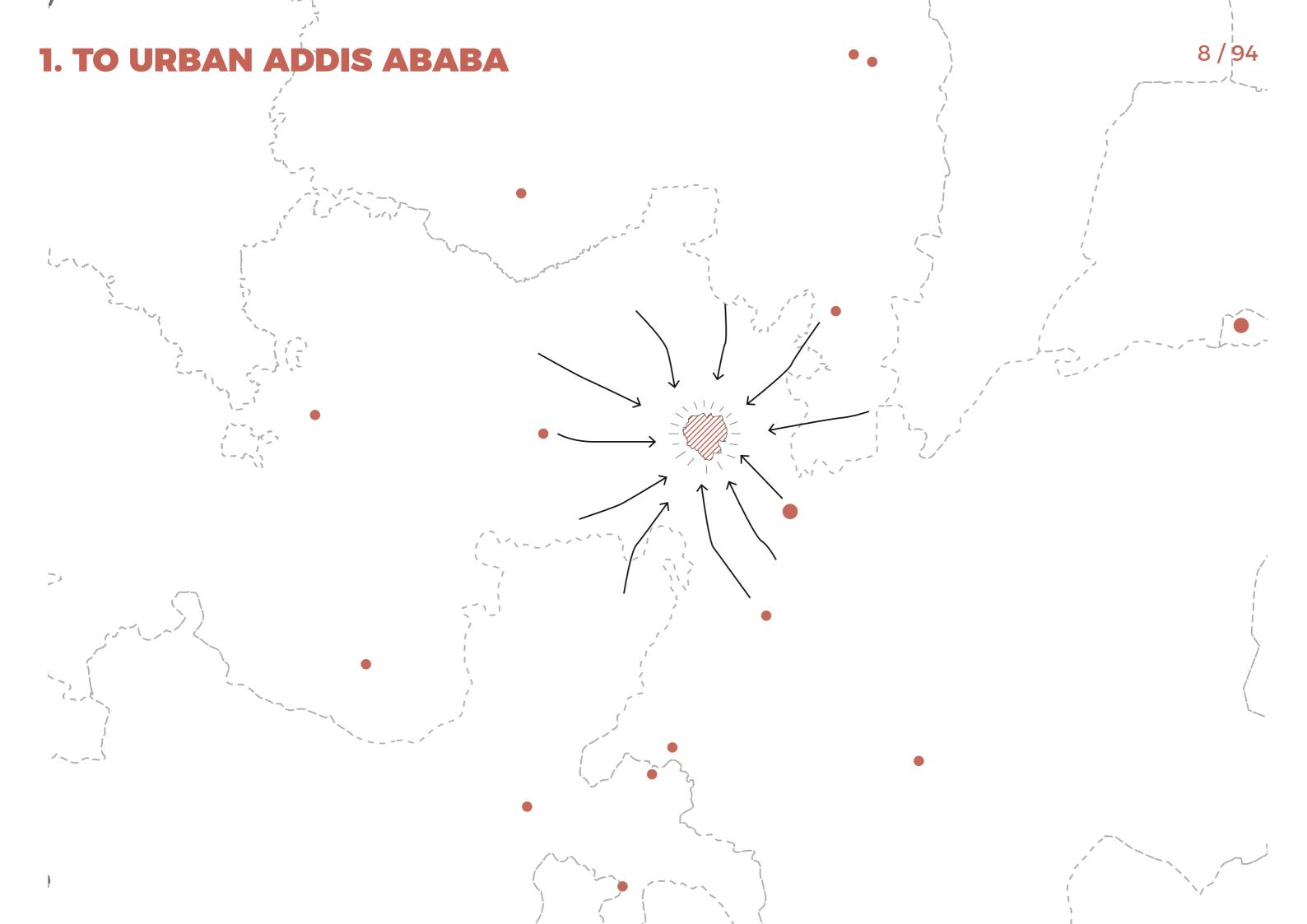


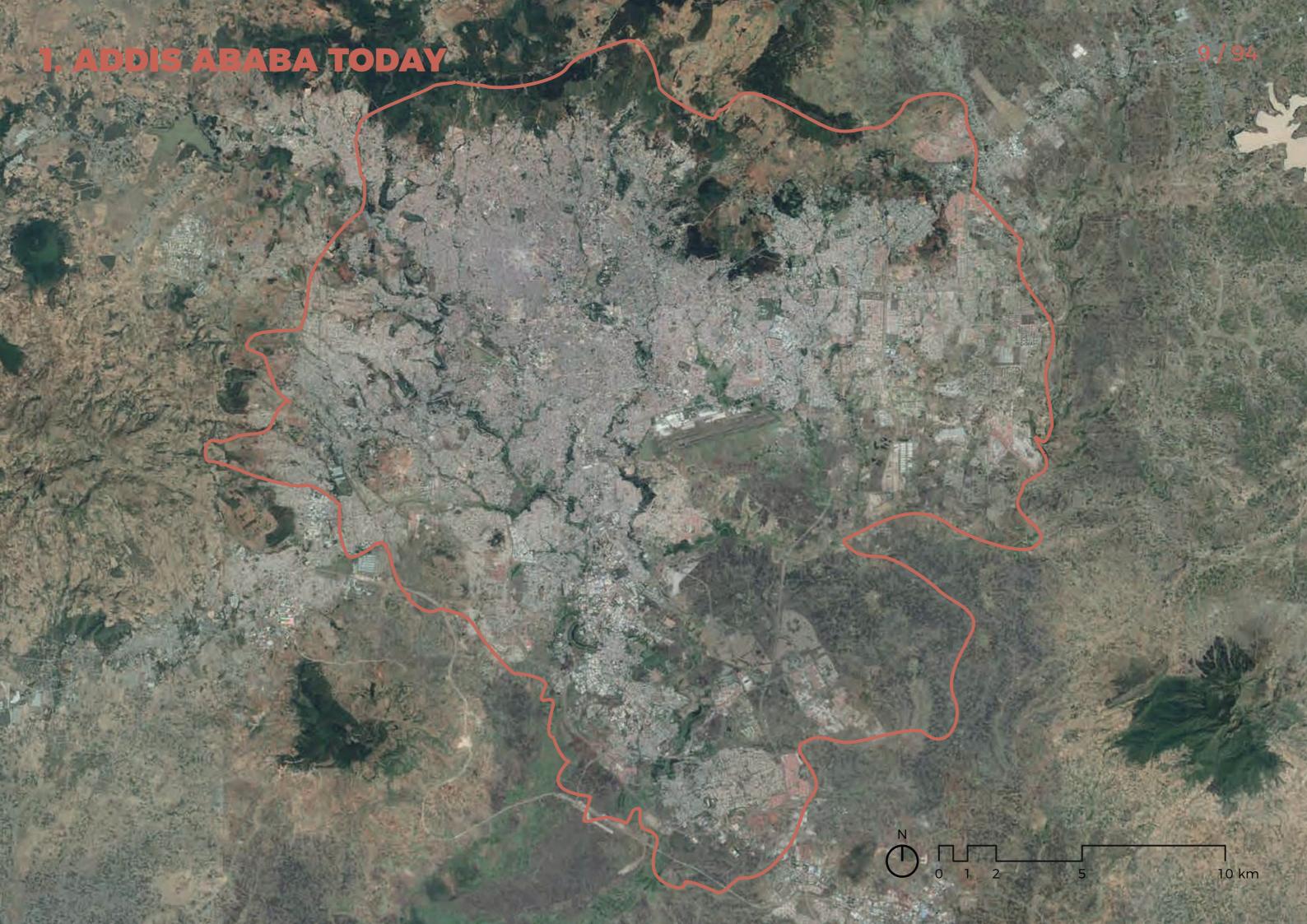
- 1. From rural Ethiopia via the kebele to the Condominium
- 2. Productive Open Space System: vision and methdology
 - 3. Theory meets empirical: design principles
 - 4. Weyira sefer: spatial analysis
 - 5. Strategy: design and implementation
 - 6. Phasing and performance
 - 7. Ten years later....Haile and Betty's improved life

1. FROM RURAL ETHIOPIA, VIA THE KEBELE, TO THE CONDOMINIUM

"[...] The migrant is not coming to the city for housing. He is coming for a job. For survival. ."

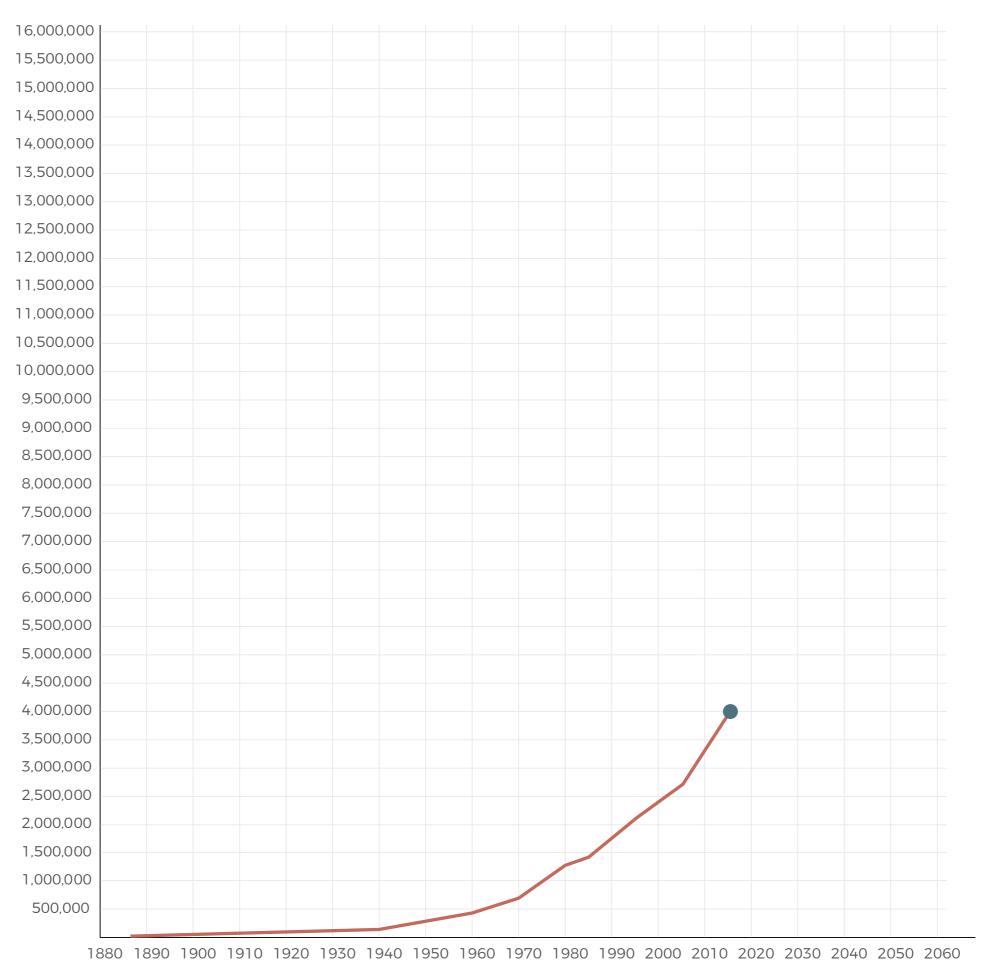
(Charles Correa)



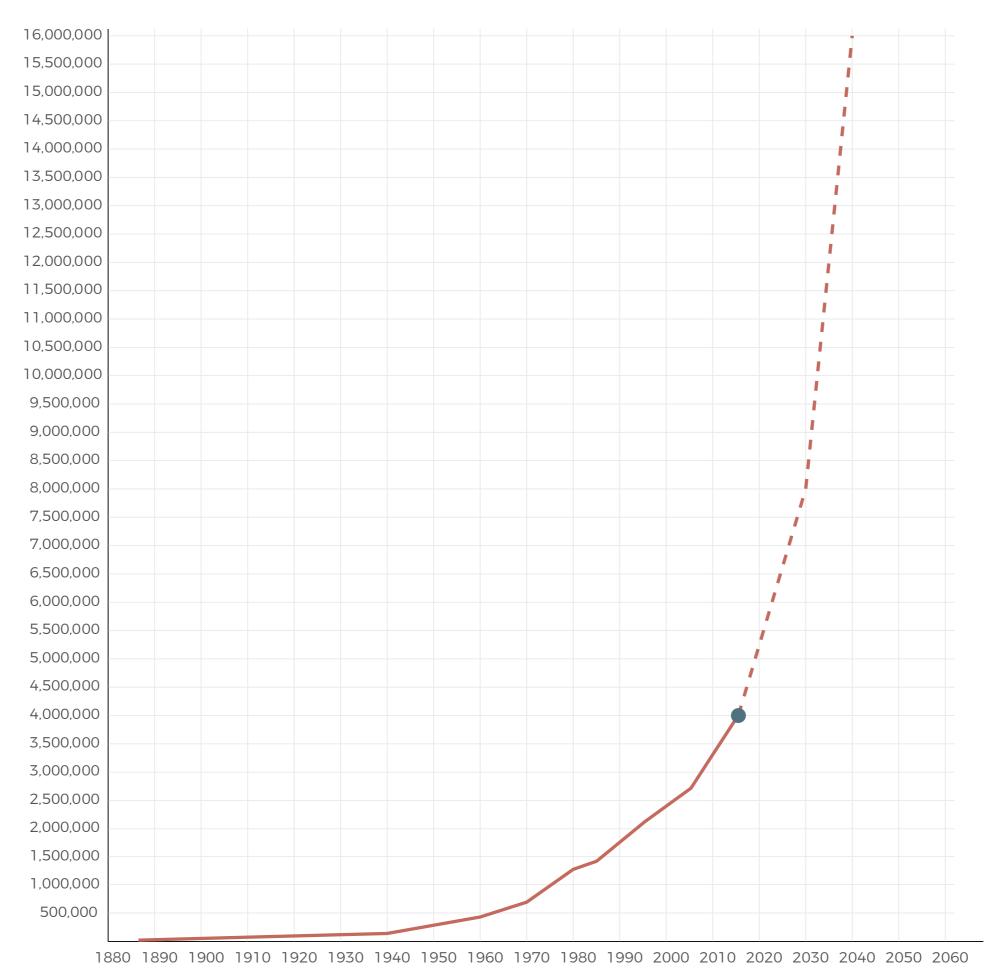


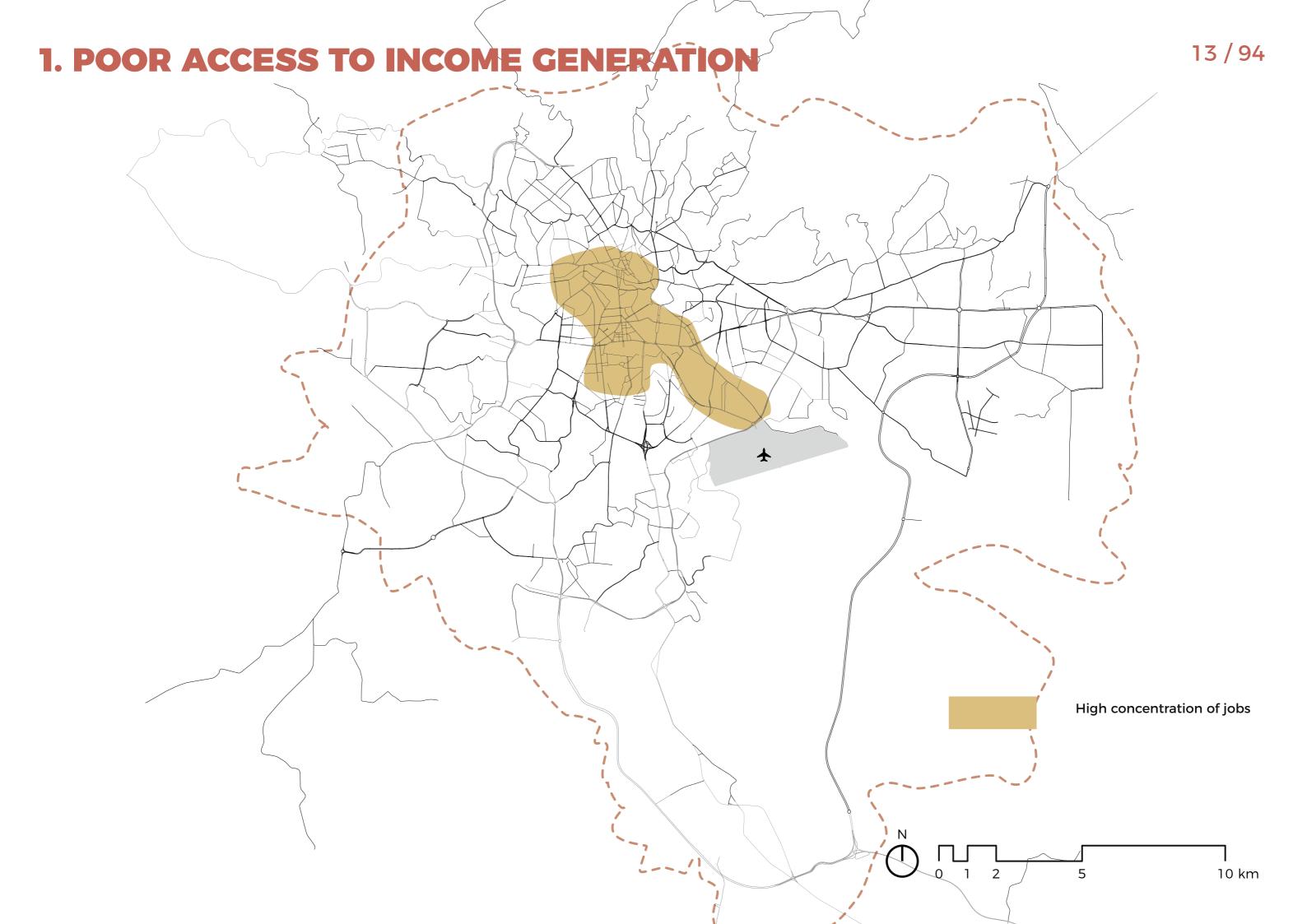


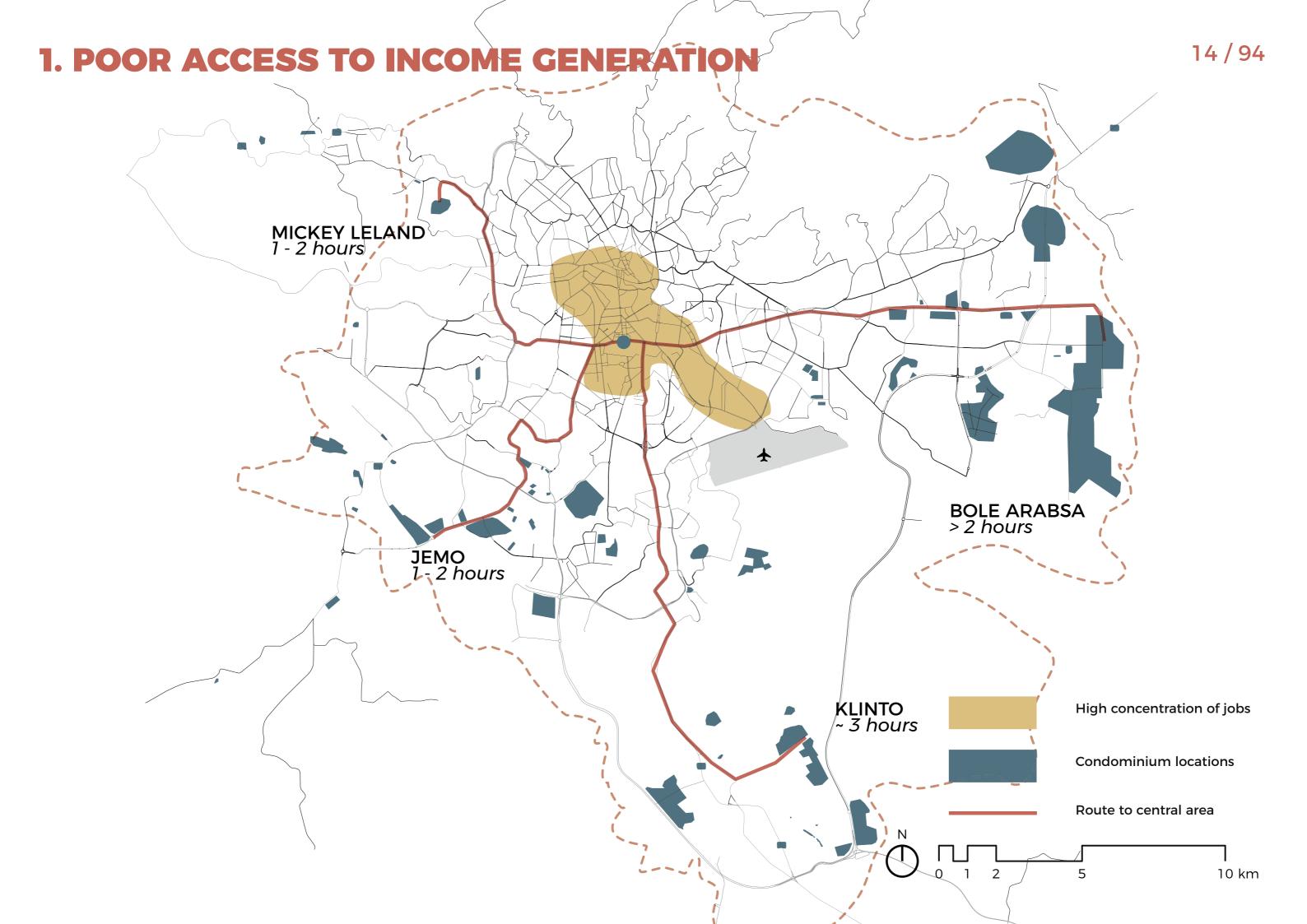
1. ADDIS ABABA: POPULATION GROWTH



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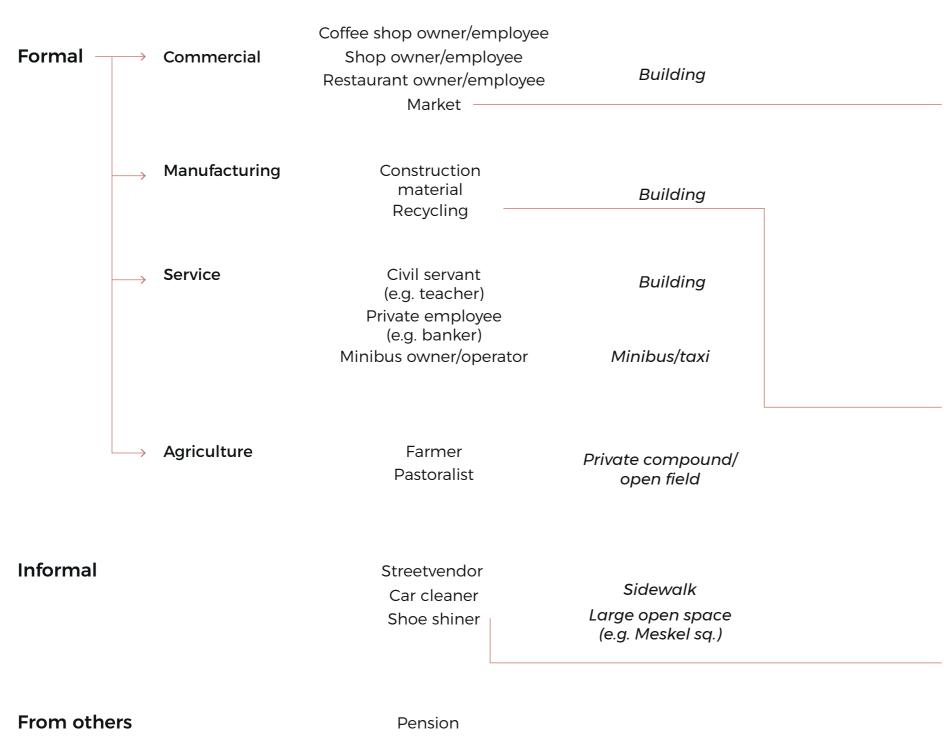
1. INCOME GENERATION IN ADDIS ABABA

CATEGORIES

INCOME GENERATING PRACTICES

SPATIAL

Private compound



From family members

Subletting







1. PRIVATE COMPOUND: SMALL SCALE



Used for daily activities and small scale income generation

1. OTHER OPEN SPACE IN THE SEFER



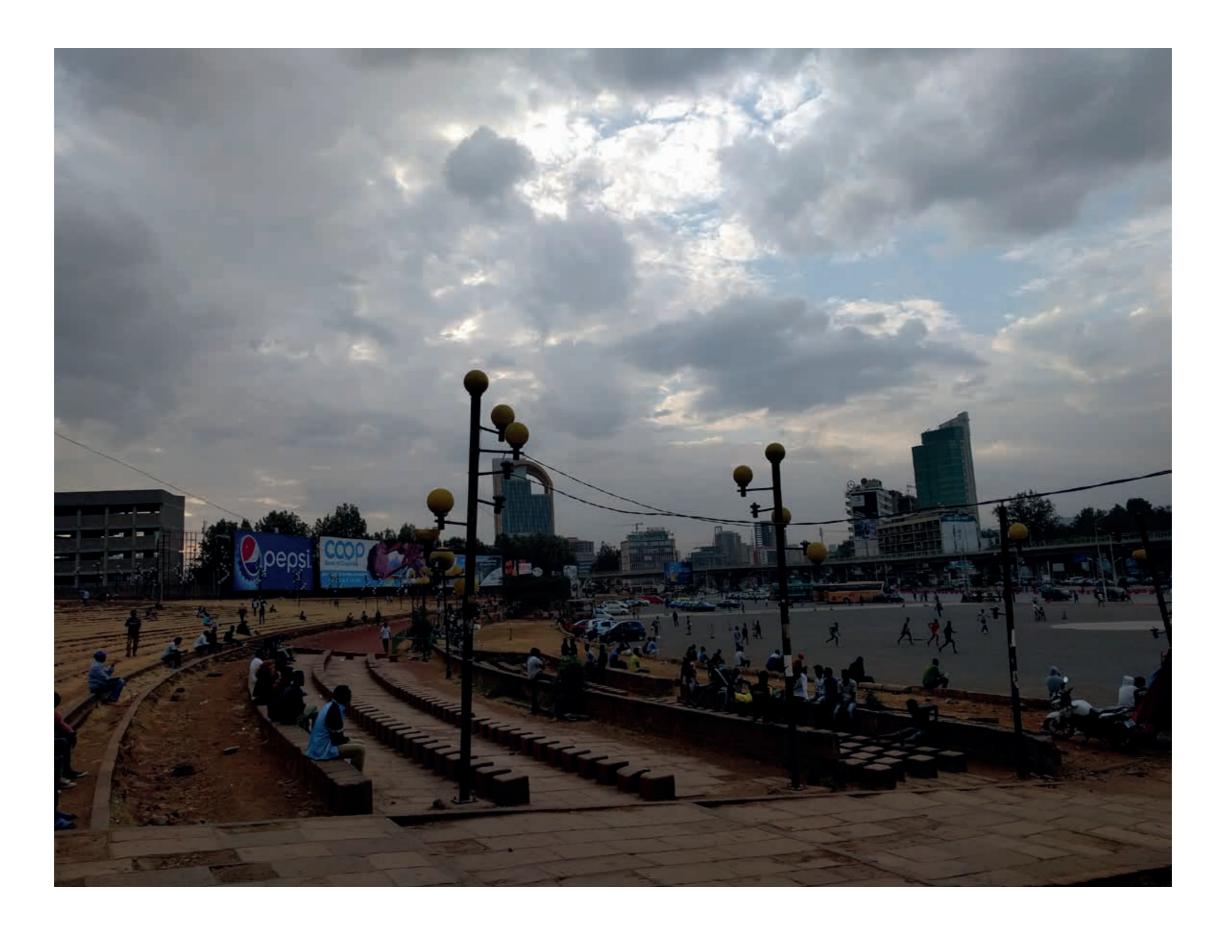
Empty spaces, unused

1. MAIN STREET OPEN SPACE



Main streets used for informal income generation

1. MESKEL SQUARE: MOST PUBLIC SPACE



1. CONDOMINIUM OPEN SPACE? NO



Unused or inaccessible open space

1. PROBLEM ANALYSIS AND POTENTIALS: CONCLUSION

high travel costs, poor access to local income generation.

However, the **potential** lies in the underused **open spaces in the sefer**. Opportunity to connect these spaces and make them **productive**!



HYPOTHESIS:

A PRODUCTIVE OPEN SPACE SYSTEMS CONTRIBUTES TO THE INCREASED ACCESS TO LOCAL INCOME GENERATION.

2. PRODUCTIVE OPEN SPACE SYSTEM [POSS]; VISION AND METHDOLOGY

2. POSS: HAILE'S STREET BEFORE



2. POSS: HAILE'S STREET AFTER



2. POSS: BETTY'S SPACE BEFORE



2. POSS: BETTY'S SPACE AFTER



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2. POSS: OVERVIEW

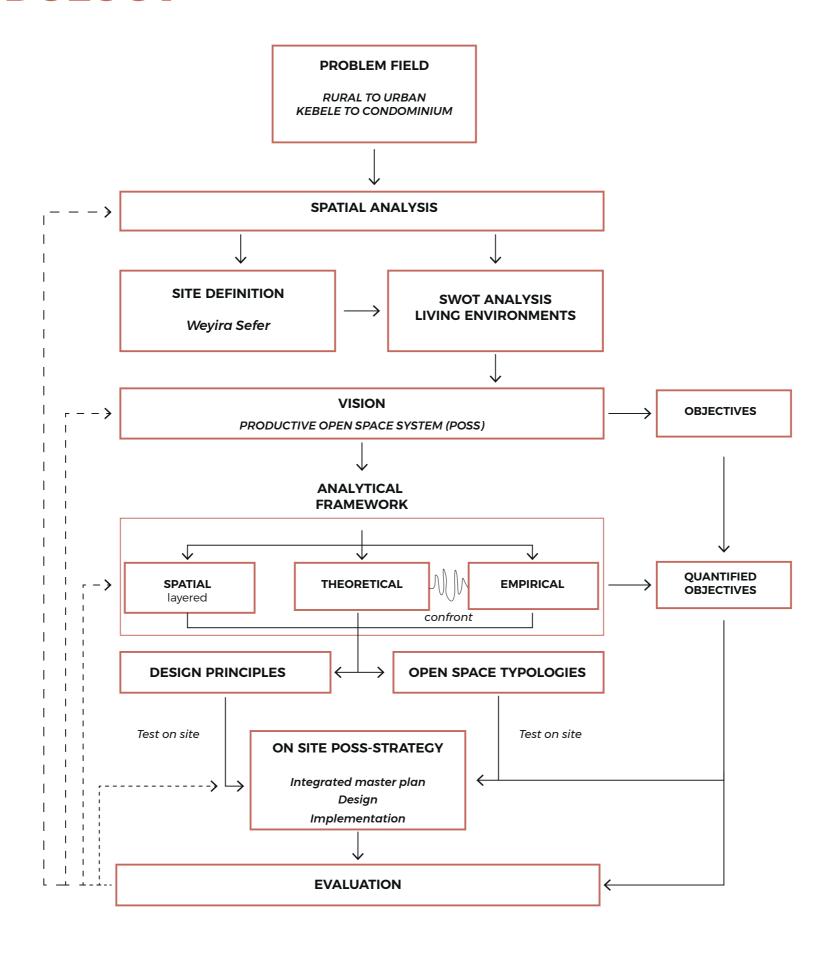
Social Producing Producing Commercial





Commercial

2. POSS: METHODOLOGY

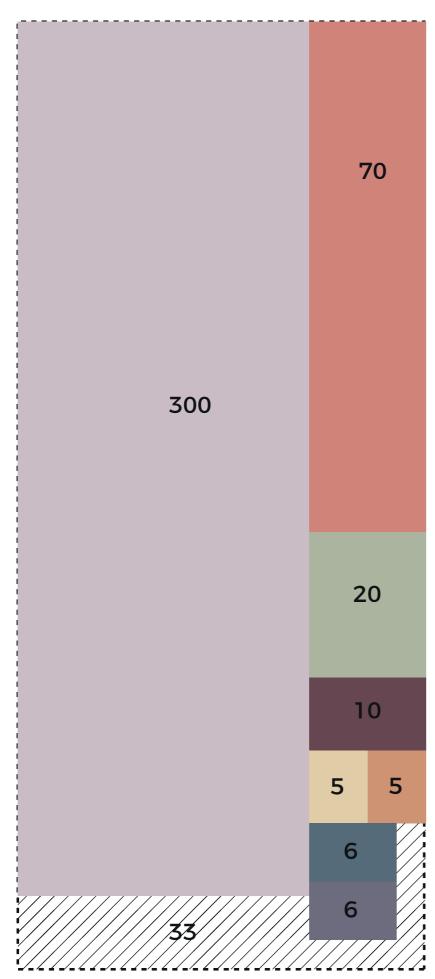


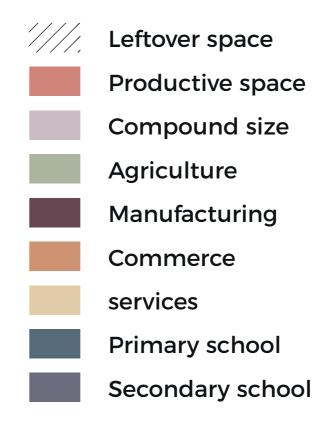
2. POSS: QUANTIFIED OBJECTIVES

| LAYER | PROBLEM | PARAMETERS | OBJECTIVES |
|----------------------|--|---|---|
| POSS | Unused open space | % open space | 20 % open space / total |
| | High travel costs (money and time) | travel time | 1/2 * [current travel time] |
| INCOME GENERATION | Limited access to local income generation | amount of jobs in sefer | > 25 % of working population job in sefer |
| PUBLIC FACILITIES | Limited access to schools | amount of schools/ inhabitants | 1:250 primary school 1:1200 secondary school |
| | Limited access to health facilities | amount of health centers/inhabitants | 1:1000 health centers |
| HOUSING | Need to accommodate high population growth | population density | 150 % * [current inhabitants] |

2. POSS: SPACE FOOTPRINT PER COMPOUND (16 INHABITANTS)

455

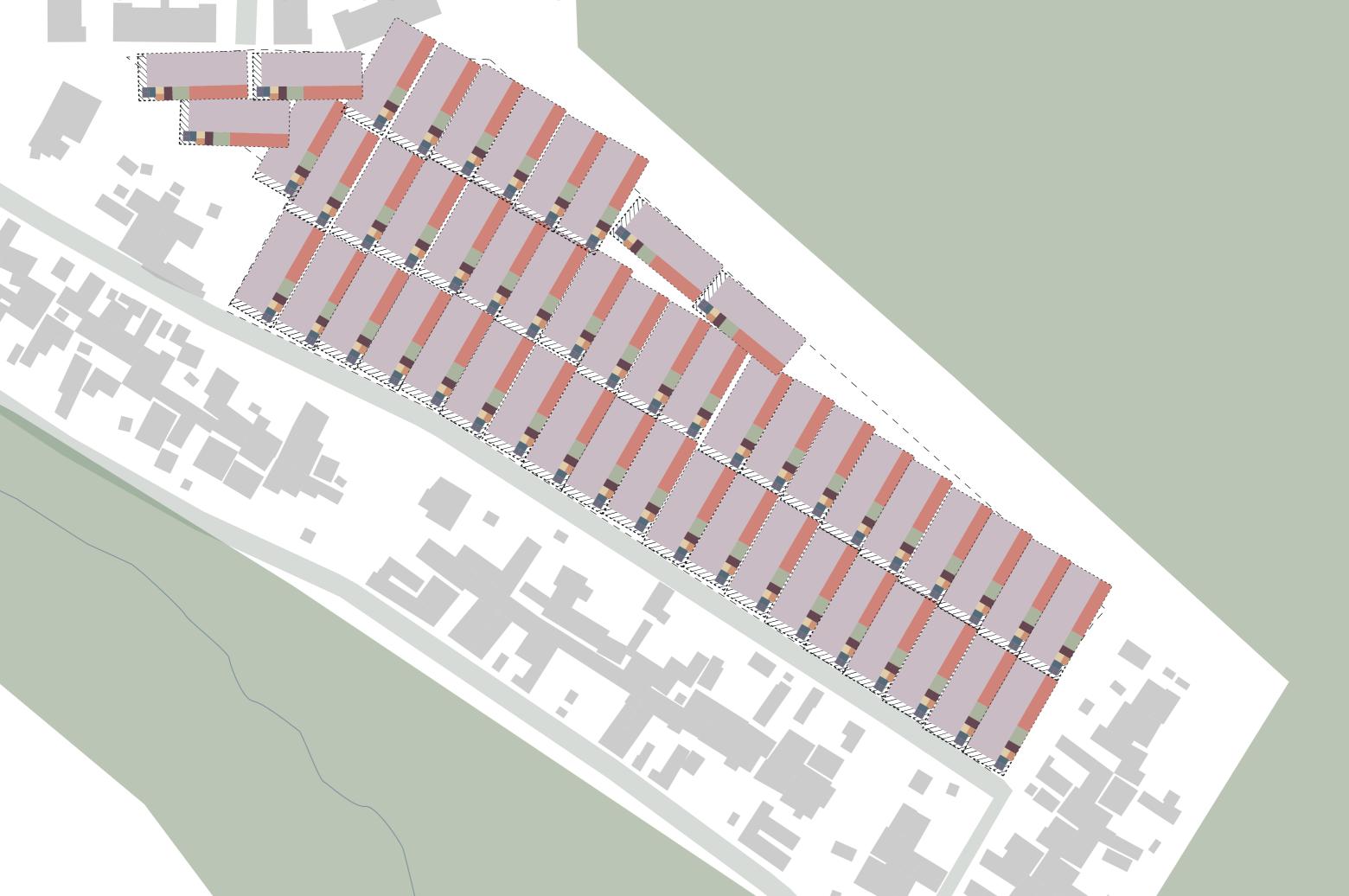




2. POSS: SPACE FOOTPRINT 96 INHABITANTS



2. POSS: SPACE FOOTPRINT 800 INHABITANTS

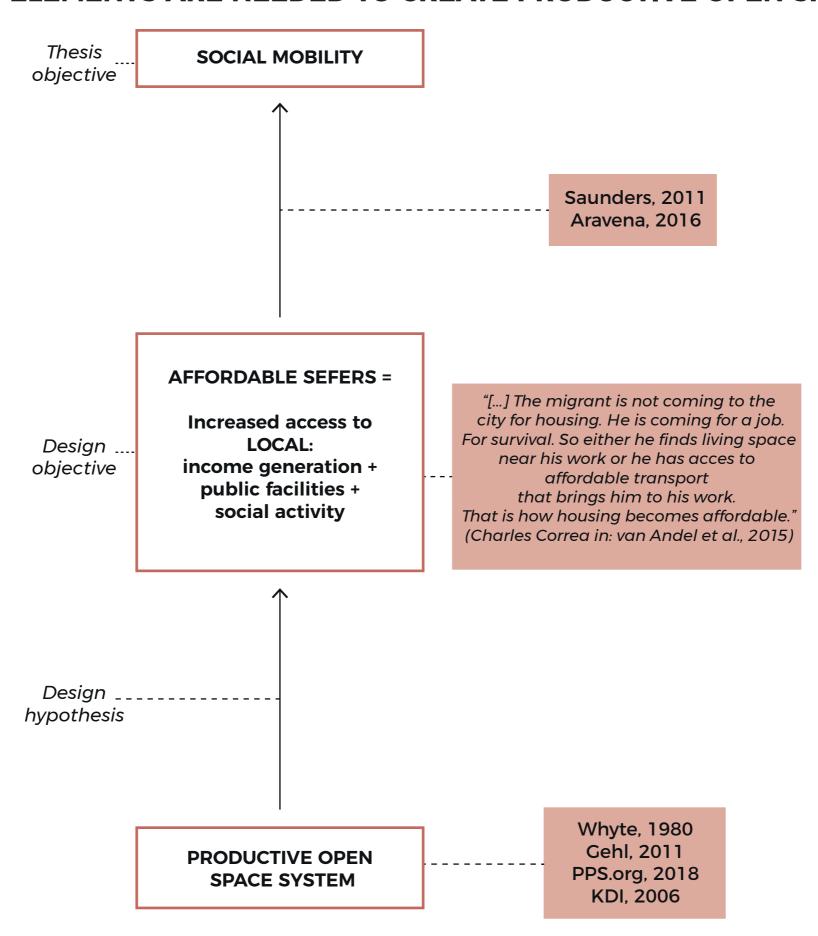


3. THEORY MEETS EMPIRICAL: DESIGN PRINCIPLES

"What attracts people most, it would appear, is other people." (Whyte, 1980)

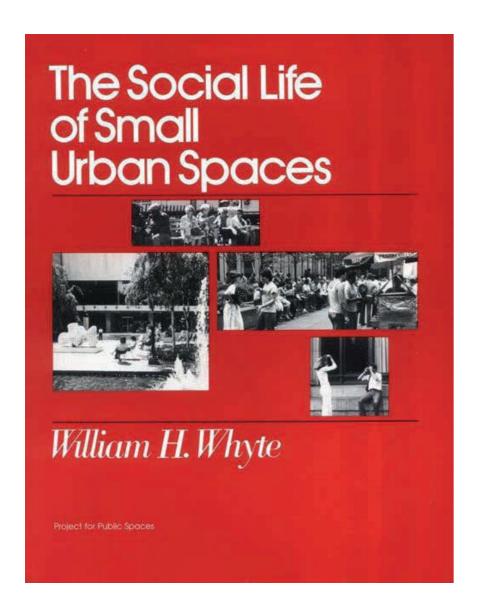
3. THEORETICAL FRAMEWORK

"WHAT DESIGN ELEMENTS ARE NEEDED TO CREATE PRODUCTIVE OPEN SPACE SYSTEM?"

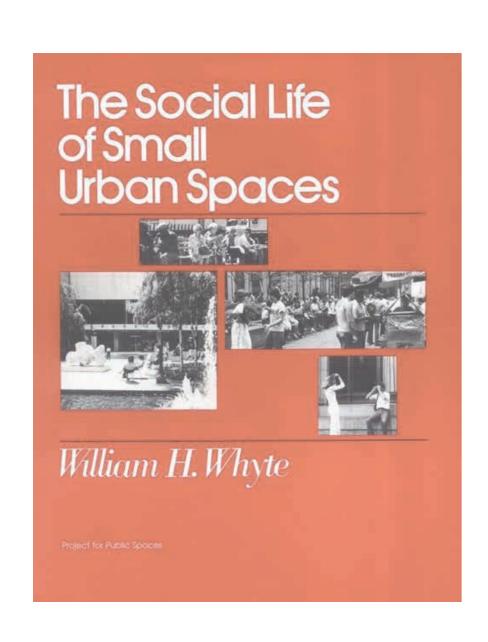


3. CONFRONTING THEORY

"WHAT ELEMENTS MAKE A SUCCESSFUL OPEN SPACE?"



Spaces in the sun most popular (Whyte, 1980)

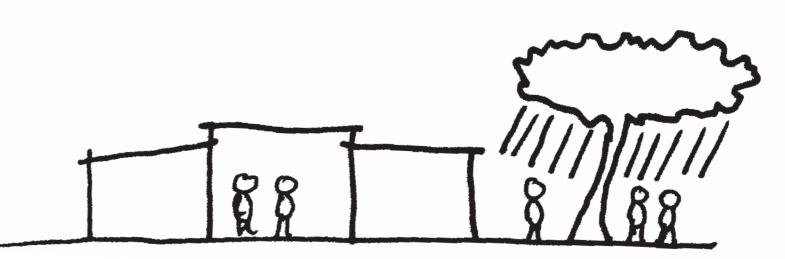




Reality in Ethiopia

3. DESIGN PRINCIPLES: SHELTER ATTRACTS ACTIVITY





3. DESIGN PRINCIPLES: TRANSIT AND COMMERCIAL SPACE





3. DESIGN PRINCIPLES: SANITATION UNIT





3. DESIGN PRINCIPLES: INCREMENTAL HOUSING DEVELOPMENT

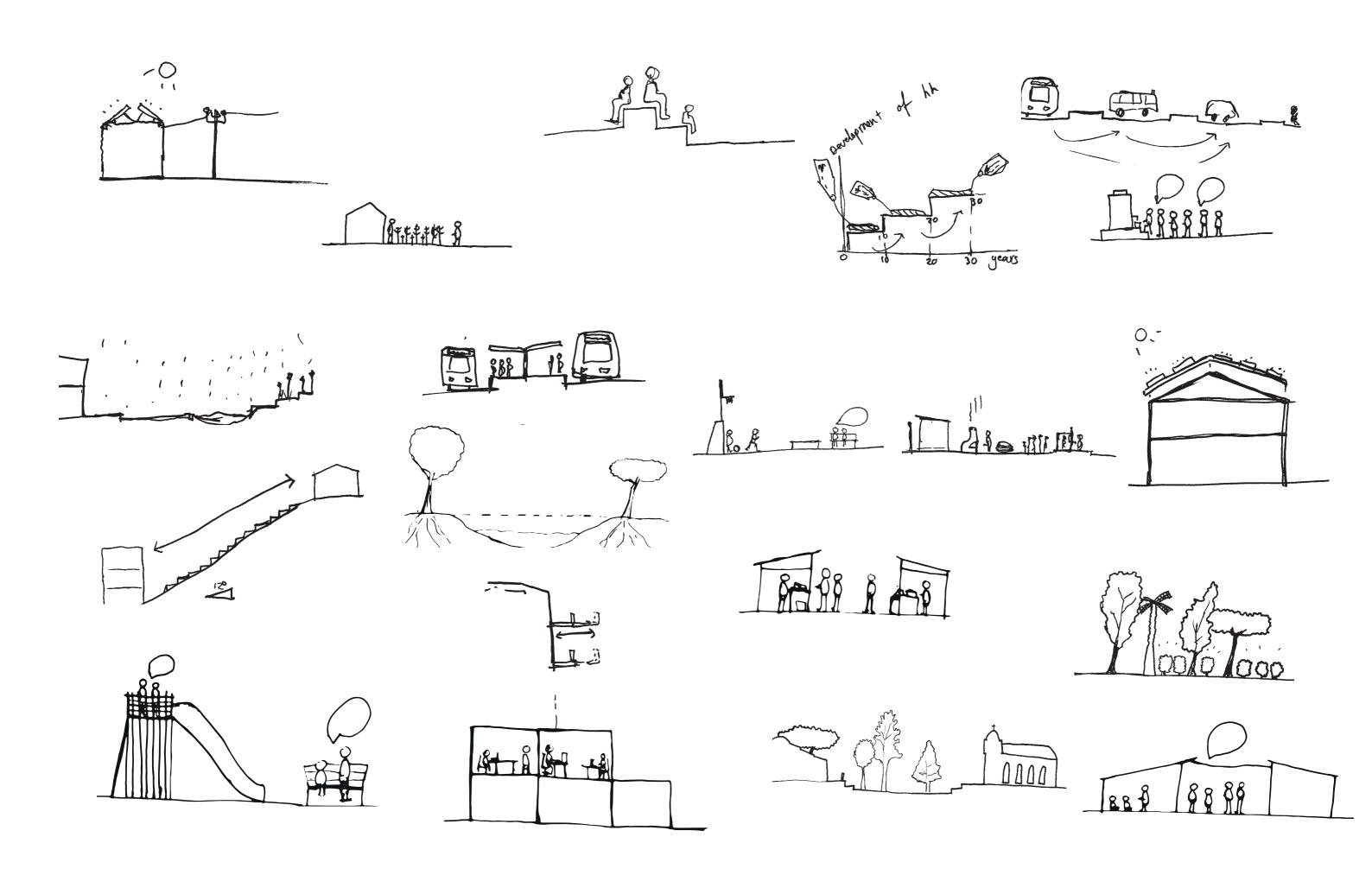
"Empower Shack"

Belapur housing



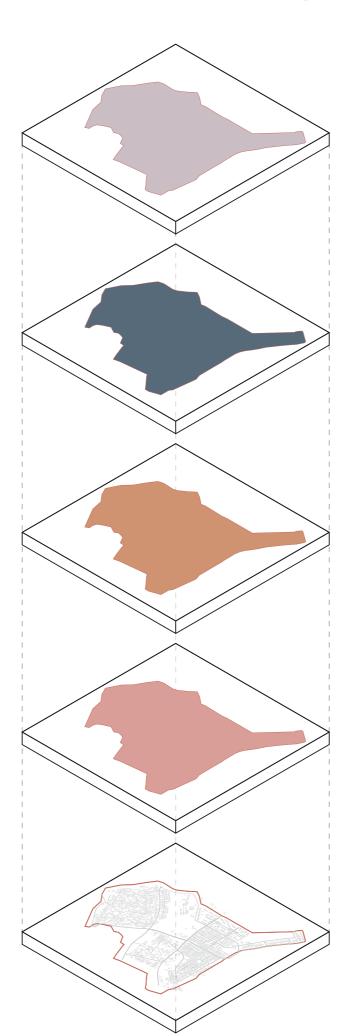


3. DESIGN PRINCIPLES: OVERVIEW



4. WEYRIA SEFER: SPATIAL ANALYSIS

4. LAYERED ANALYSIS AND DESIGN APPROACH



LAYER 4: POPULATION

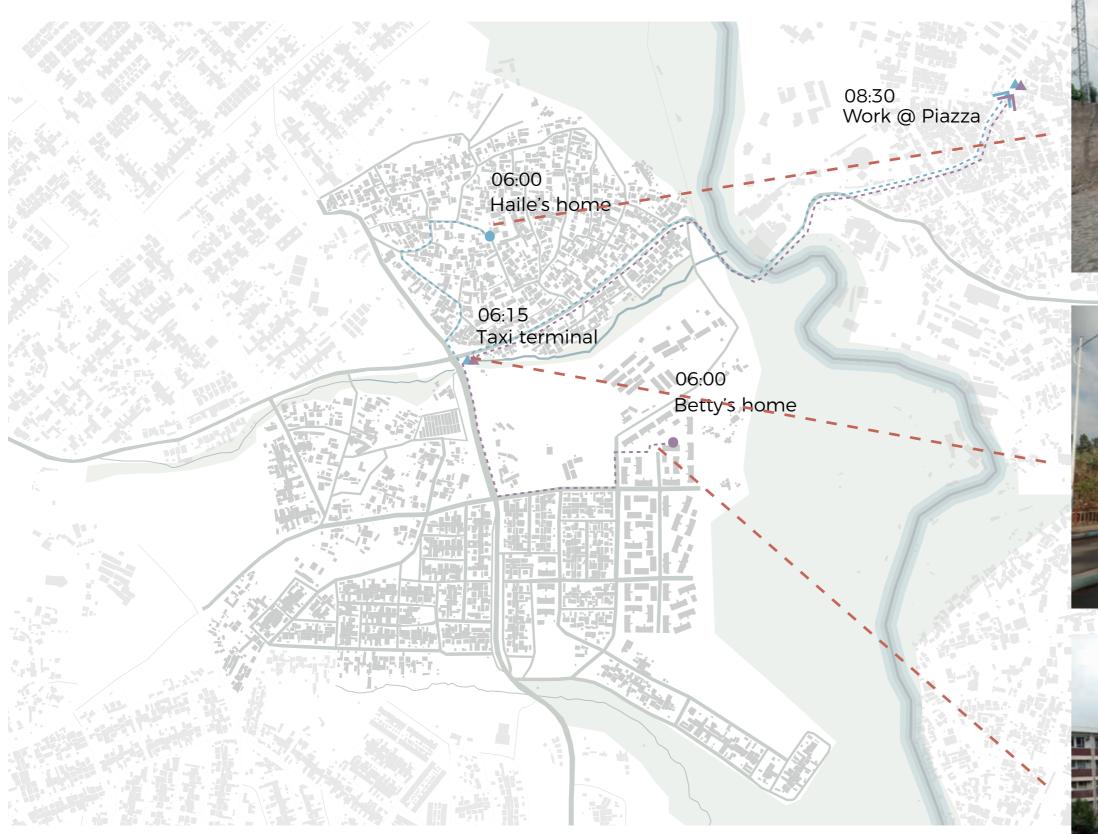
LAYER 3: EDUCATION + HEALTH

LAYER 2: LOCAL INCOME GENERATION

LAYER 1: PRODUCTIVE OPEN SPACE SYSTEM

LAYER 0: CURRENT SITUATION

4. WEYIRA: BASE





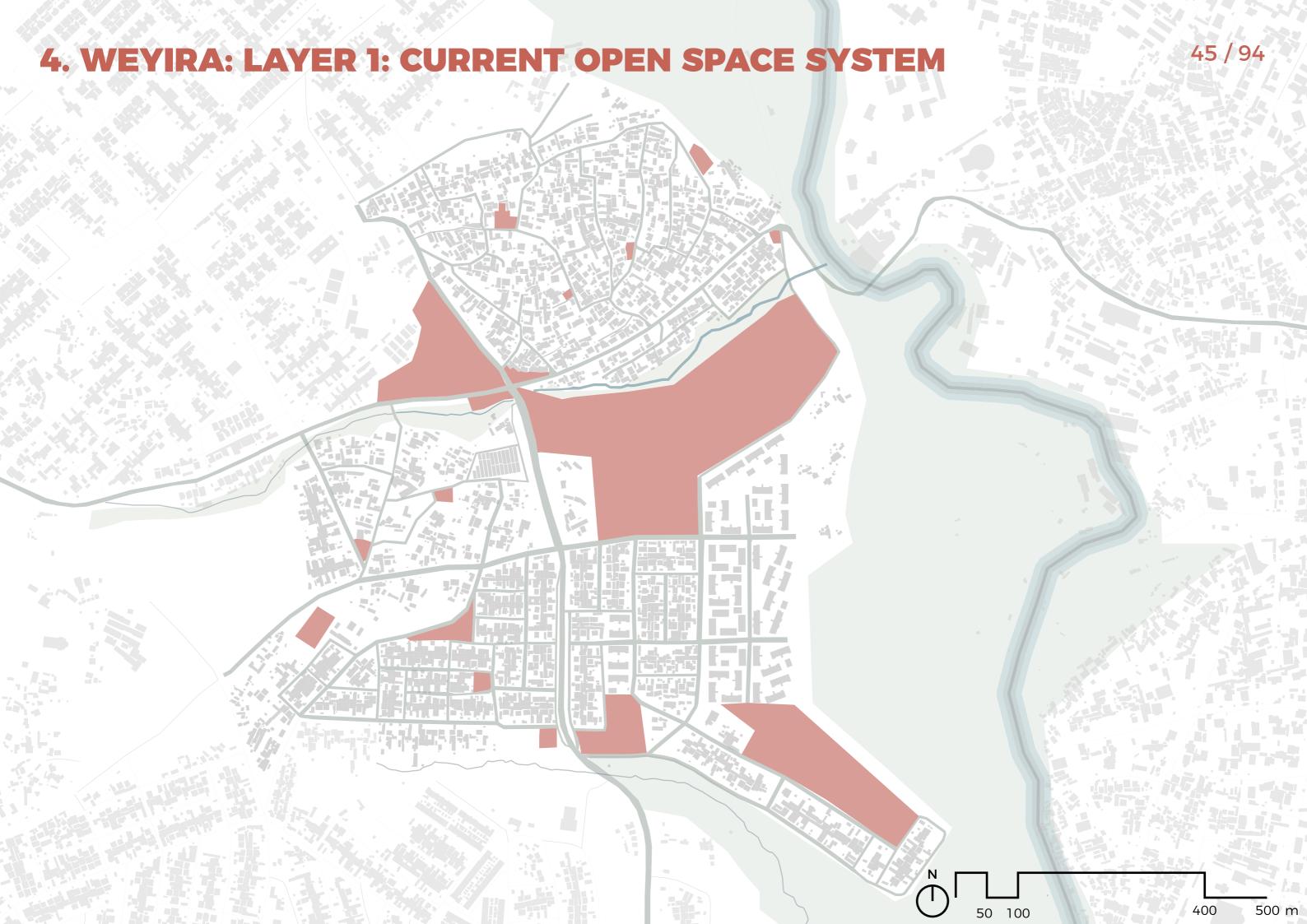
Haile's home



Terminal



Betty's home



4. WEYIRA: LAYER 1: CURRENT OPEN SPACE SYSTEM



Open space for goats



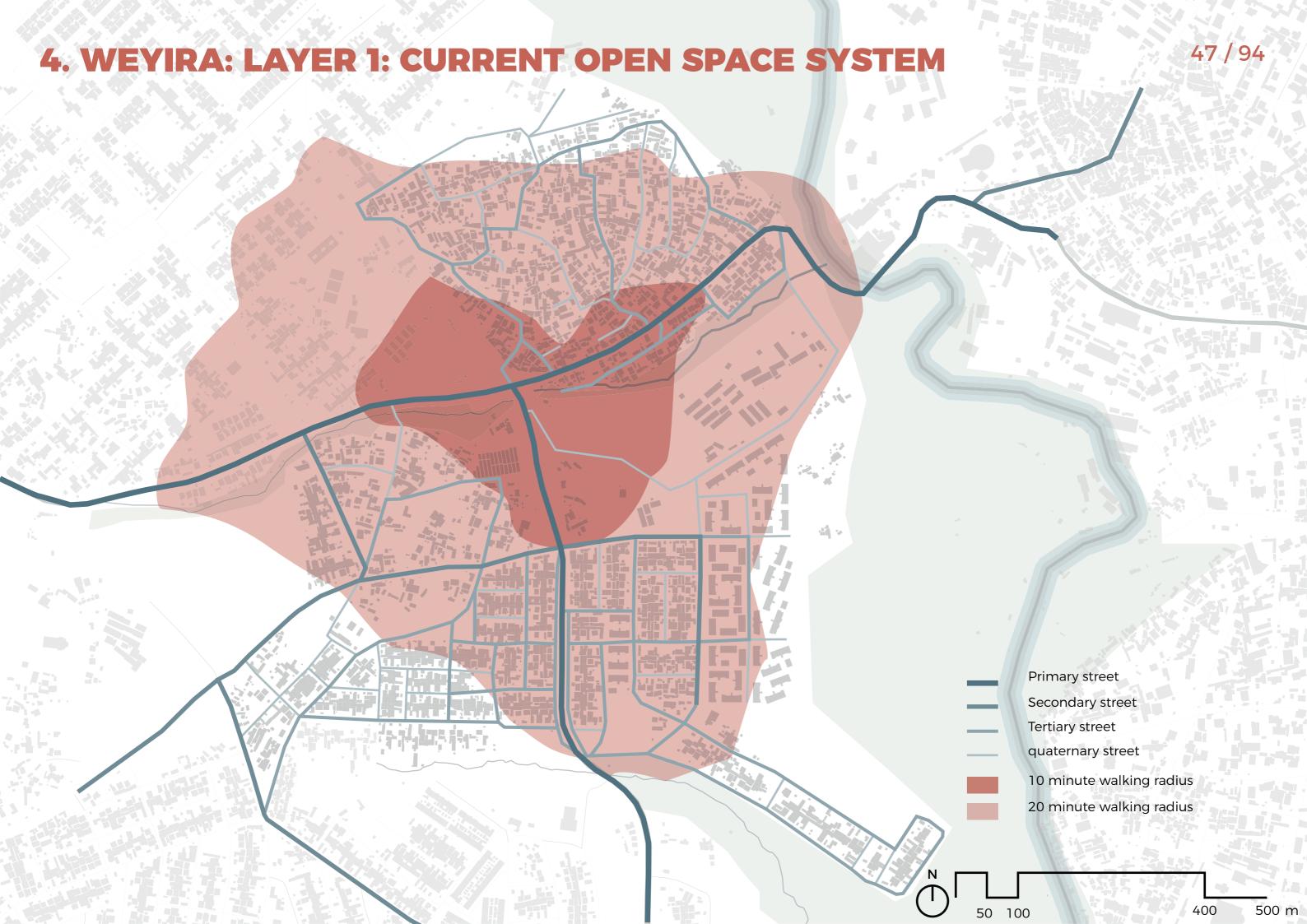
Open space as dump site



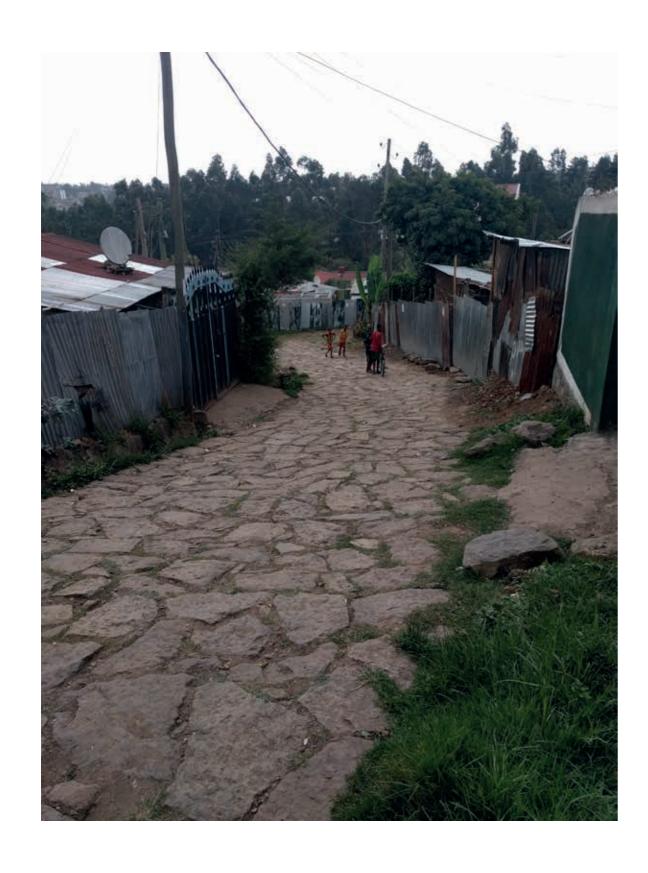
Wasted land



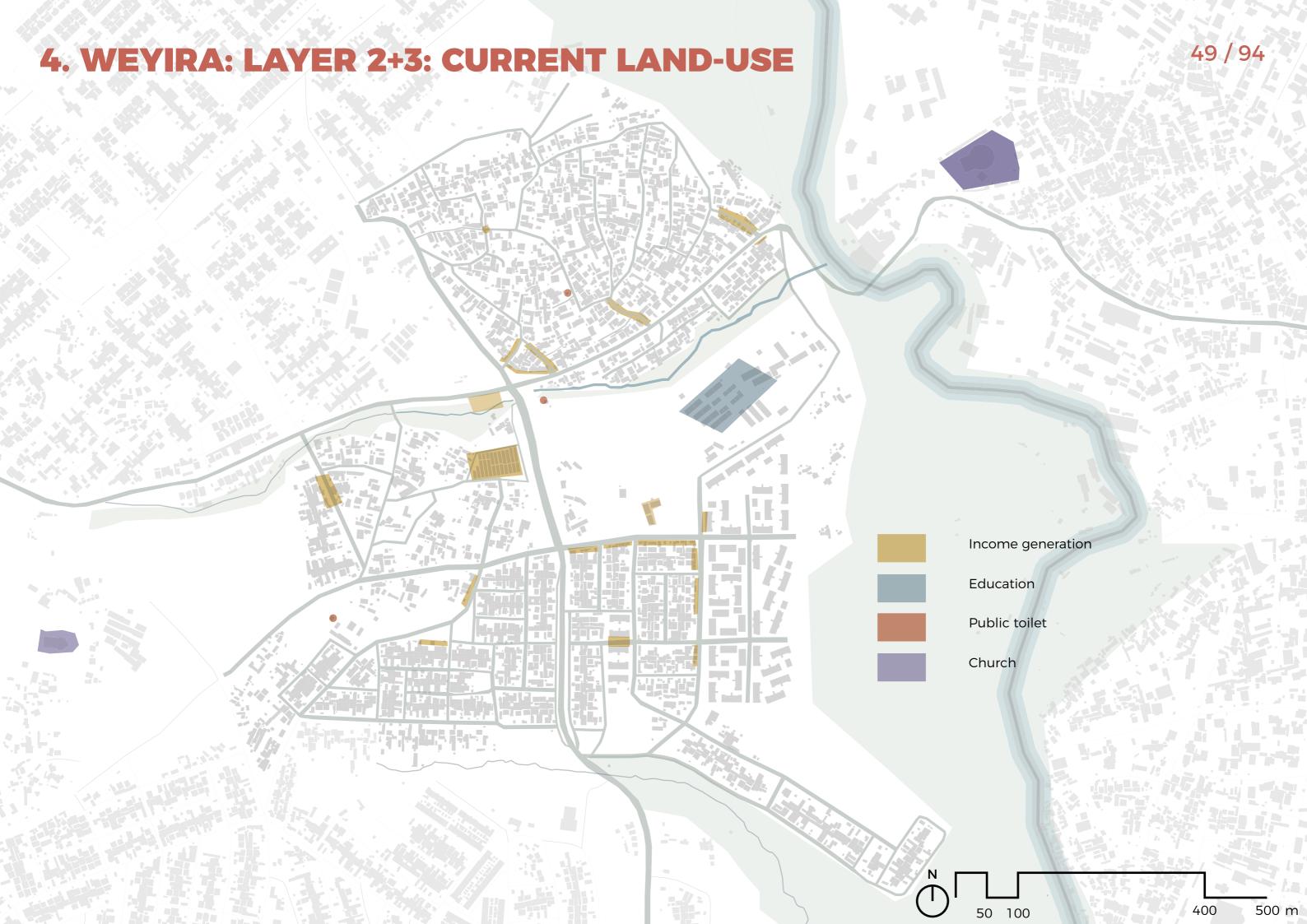
Inaccessible open condominium space



4. WEYIRA: LAYER 1: CURRENT OPEN SPACE SYSTEM







4. WEYIRA: LAYER 2+3: CURRENT LAND-USE





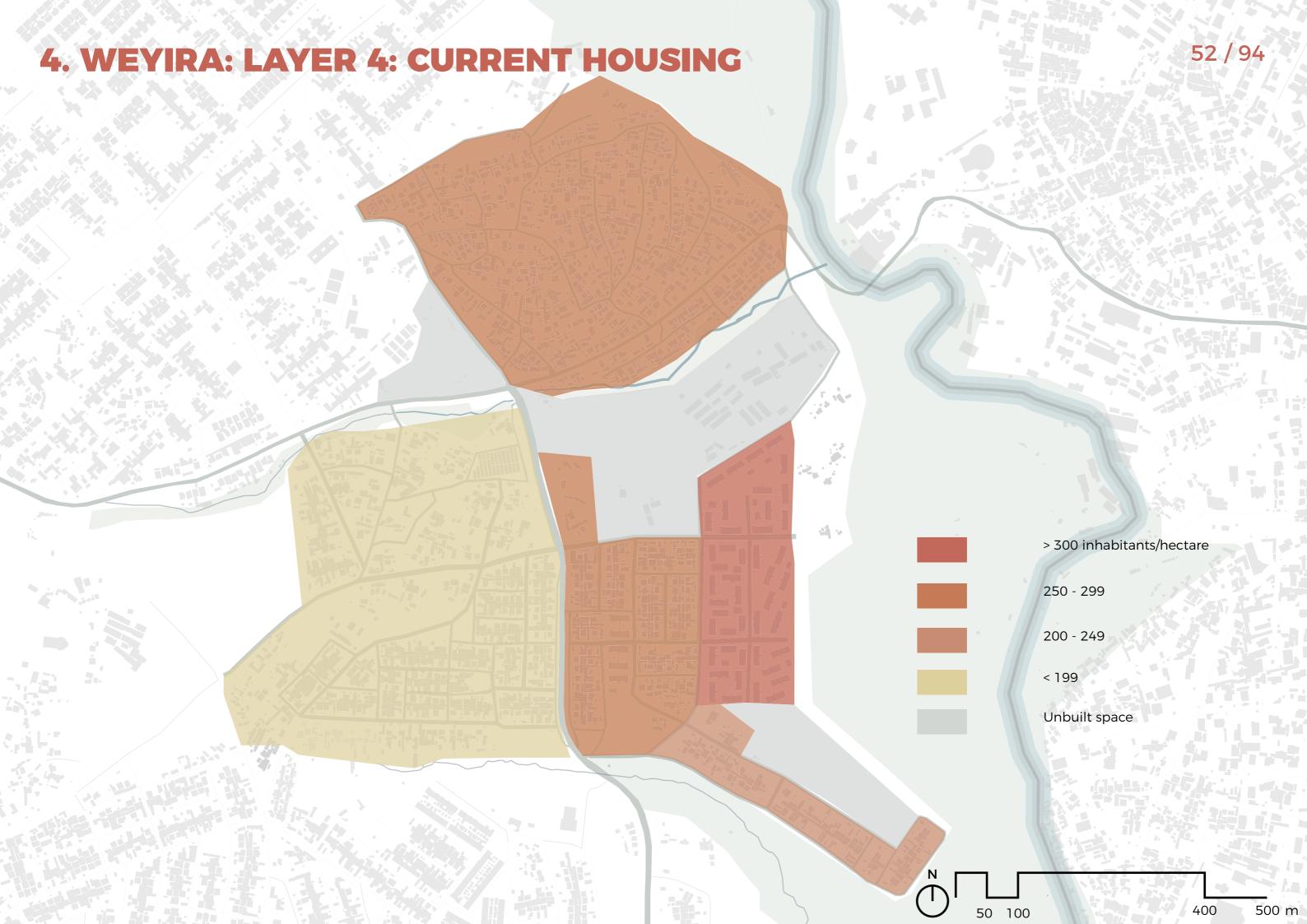
4. WEYIRA: LAYER 2+3: CURRENT LAND-USE





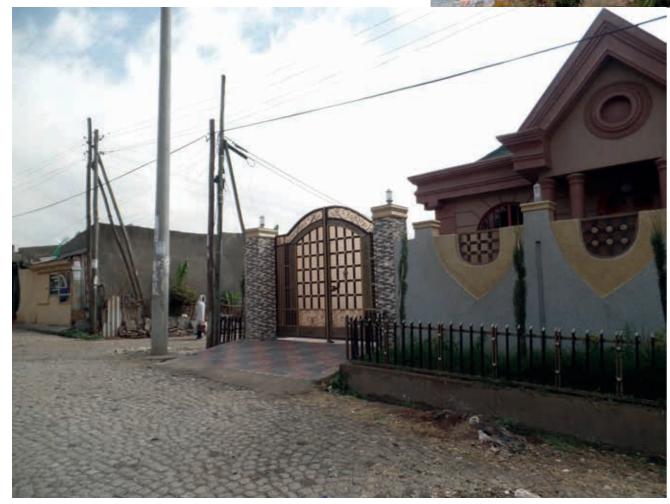
St. Giorgis church

Public toilet - terminal

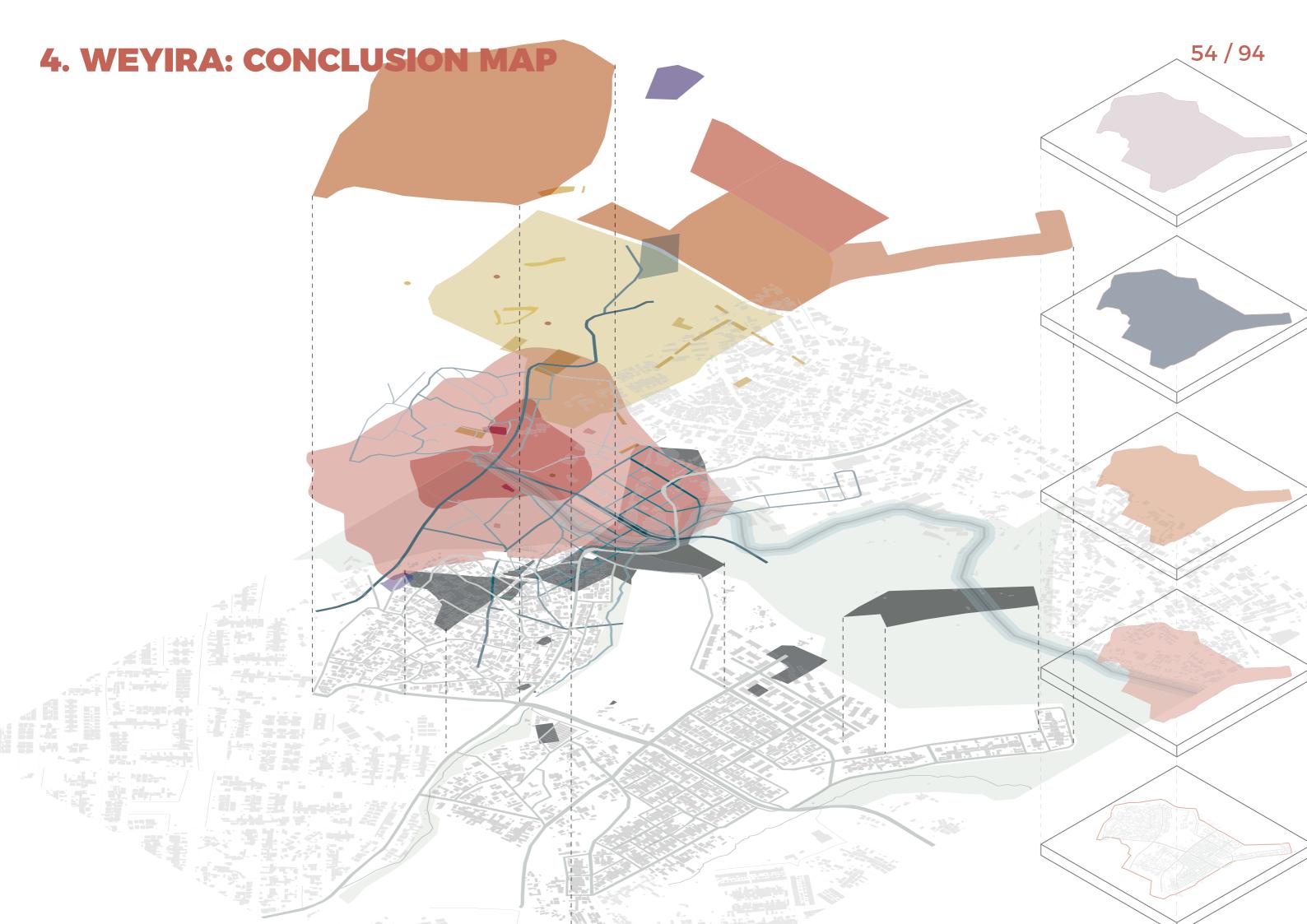


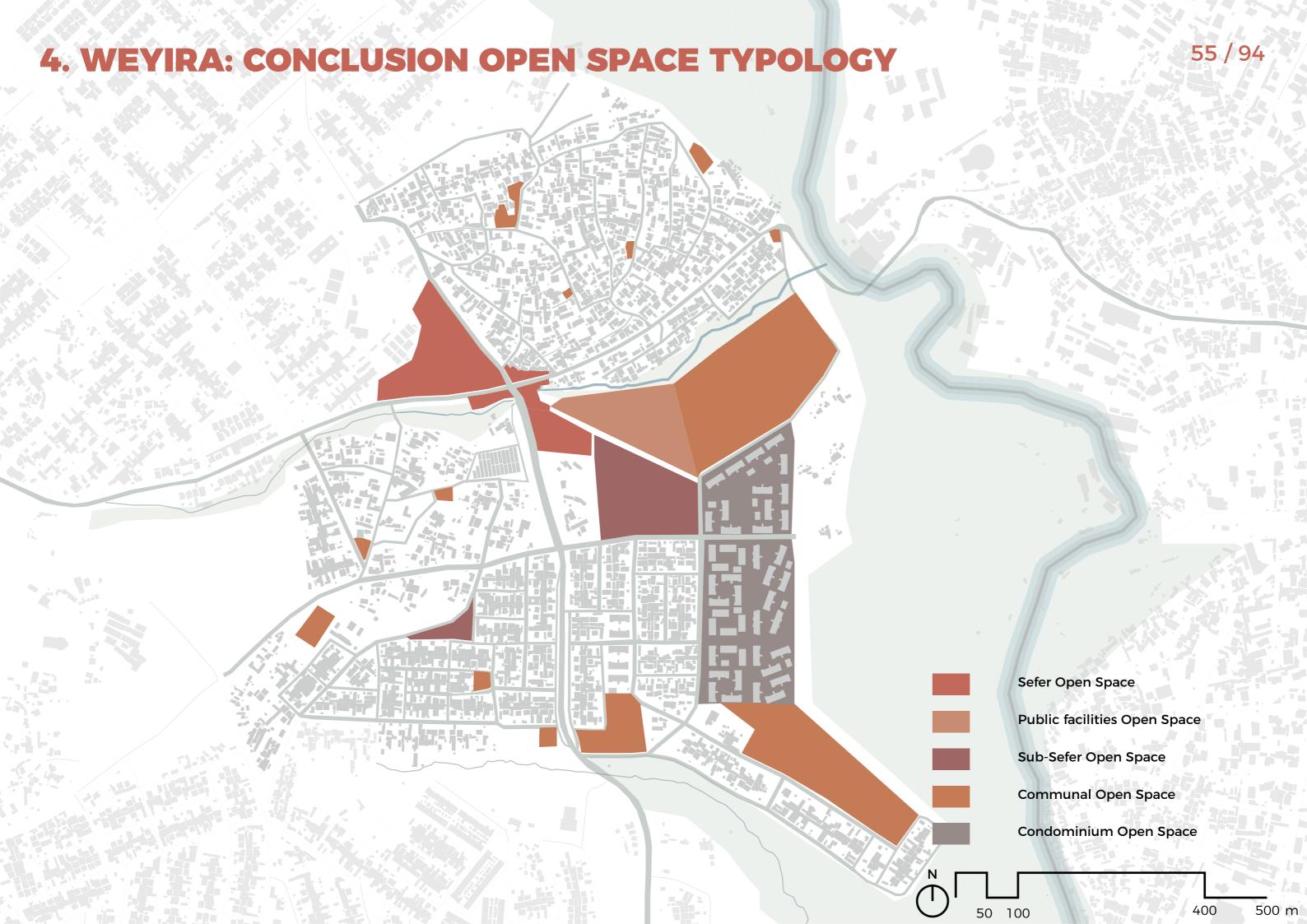
4. WEYIRA: LAYER 4: CURRENT TYPOLOGIES



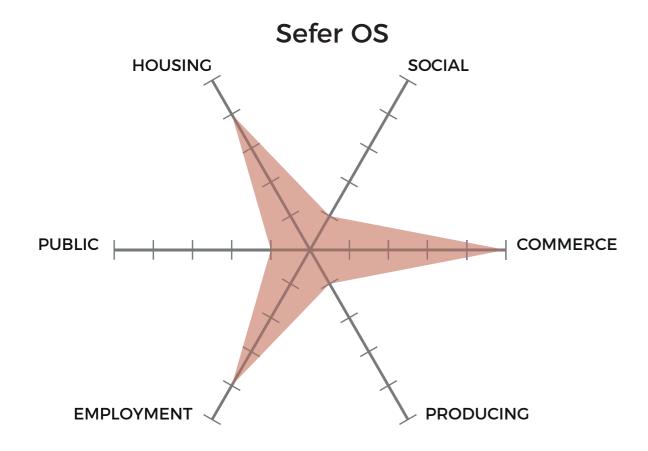


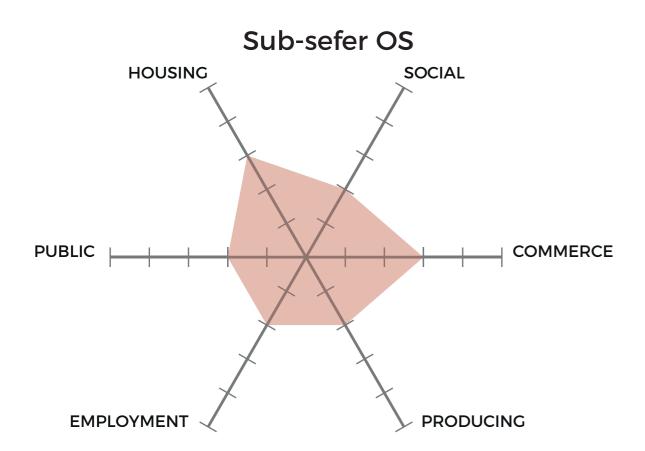


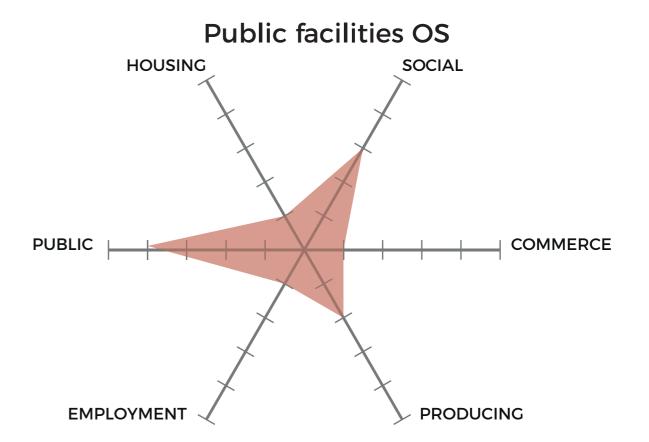


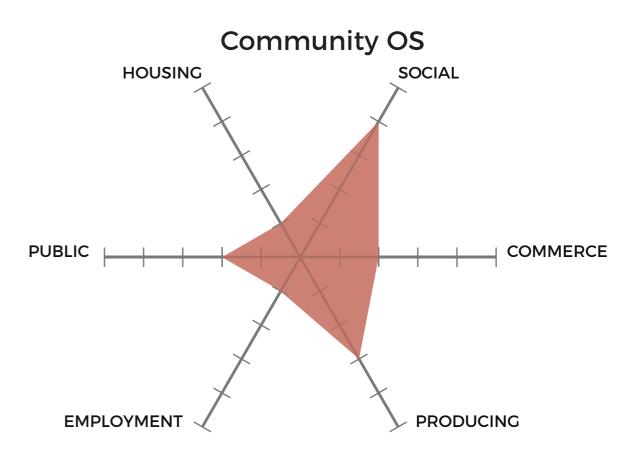


4. WEYIRA: TYPOLOGY --> DESIGN









5. POSS STRATEGY: IMPLEMENTATION AND DESIGN

5. LOCAL GOVERNANCE: CURRENT SITUATION

SCALE

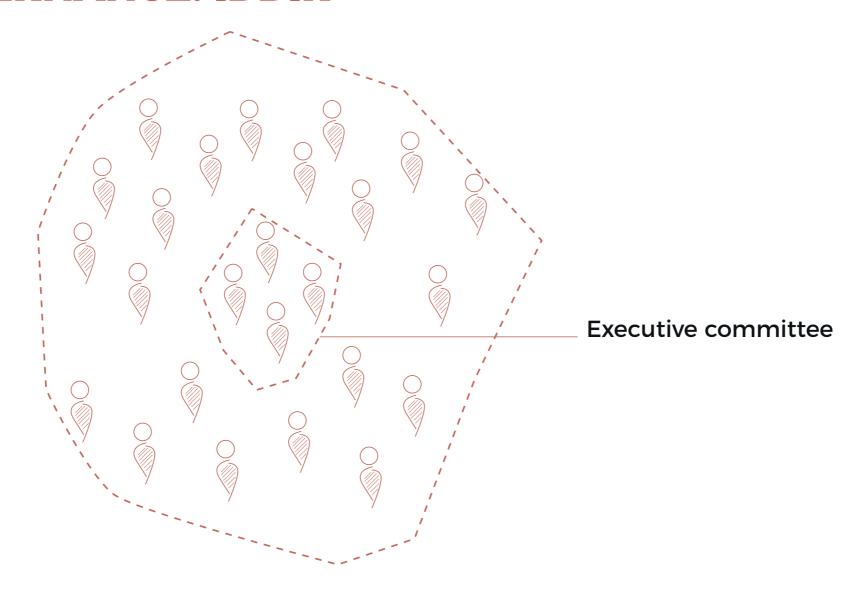
National Planning Commission National: (NPC) government Addis Ababa State: Addis Ababa planning commission autonomous region Derived from the 2017 Master plan Sub-city: Local Development Plan Kolfe Keranyo Woreda: 6

REPRESENTATIVE

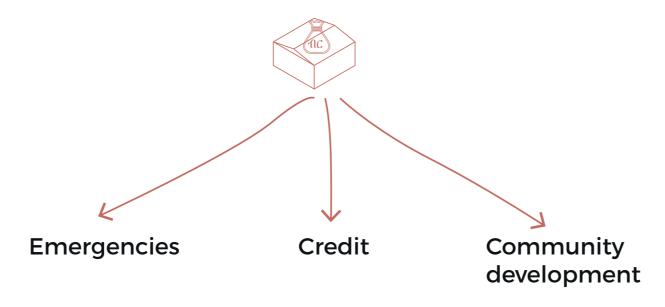
GOVERNMENT

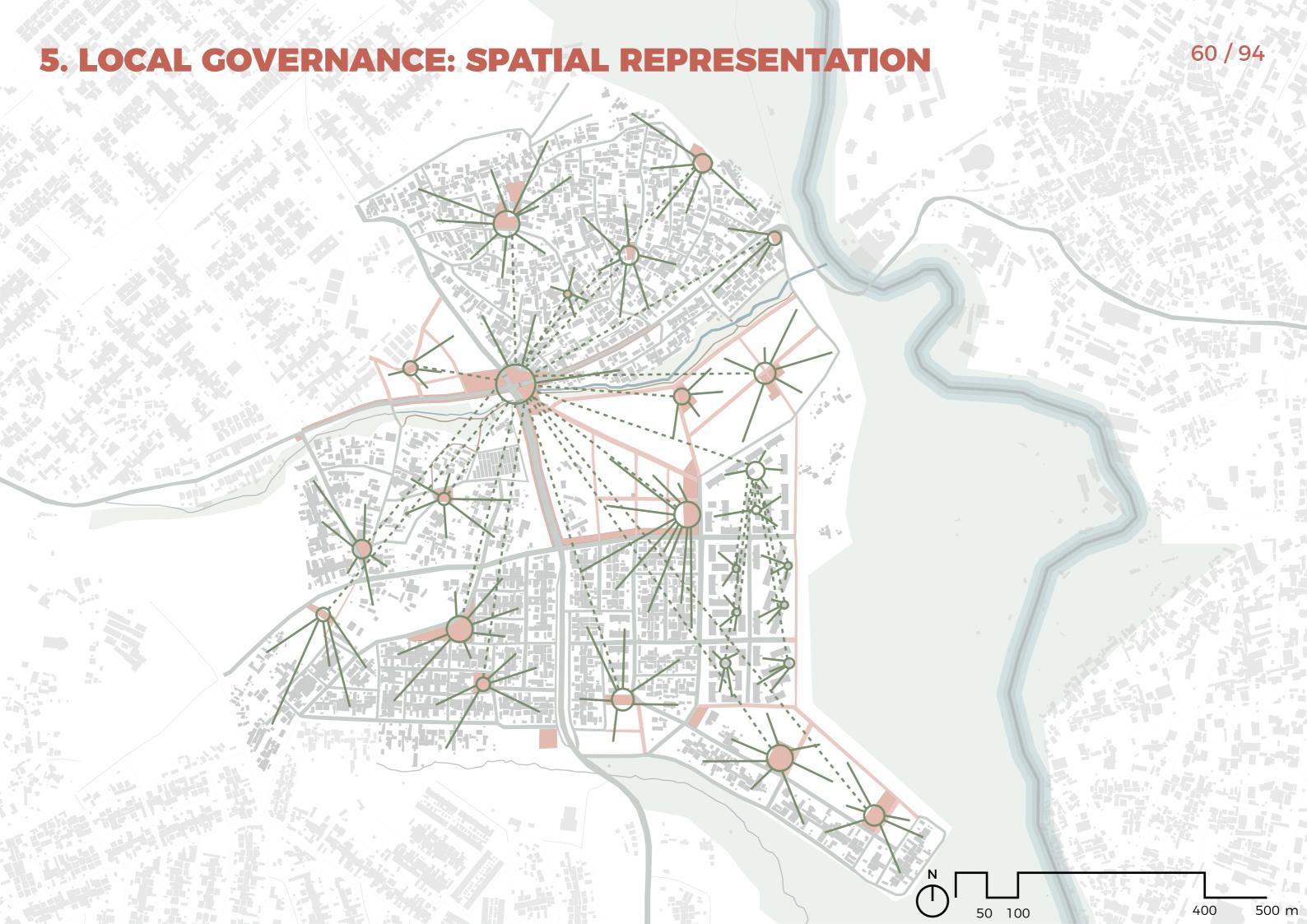
PLANNING

5. LOCAL GOVERNANCE: IDDIR



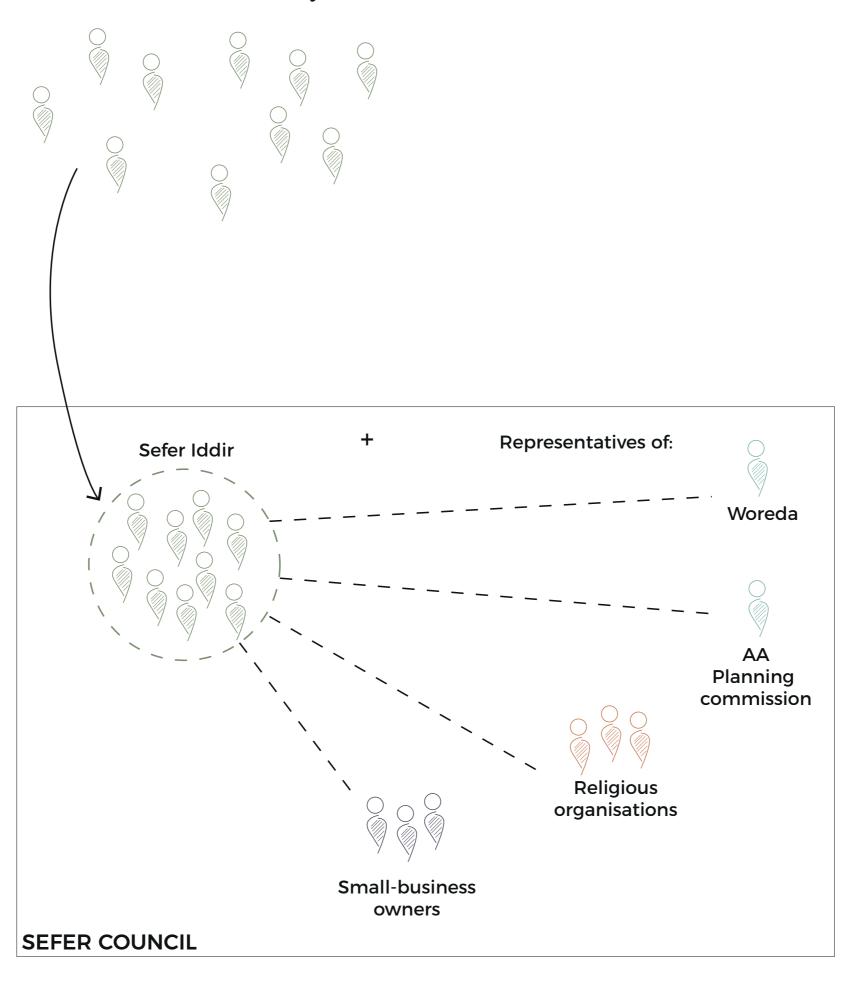
Savings / insurance

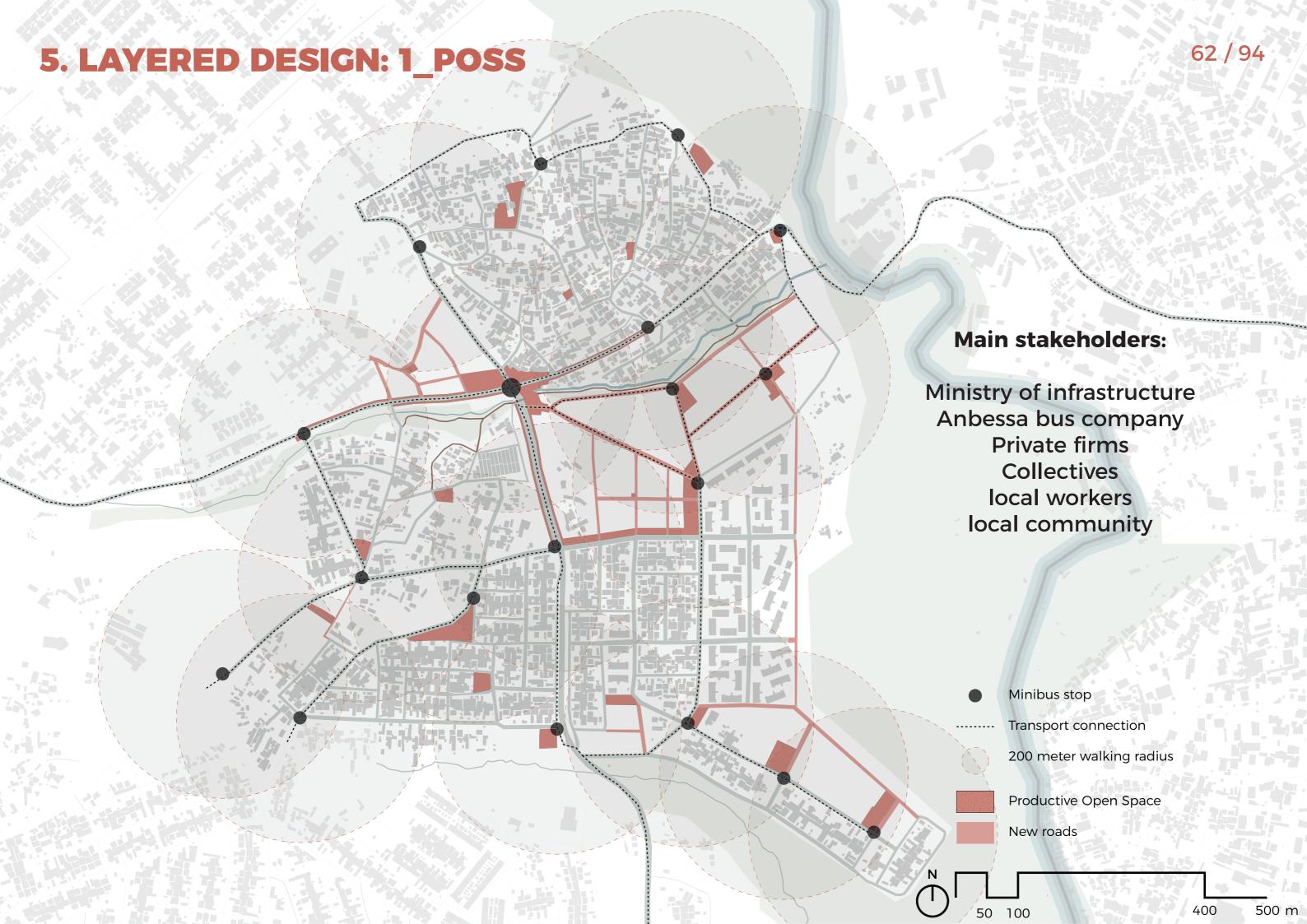


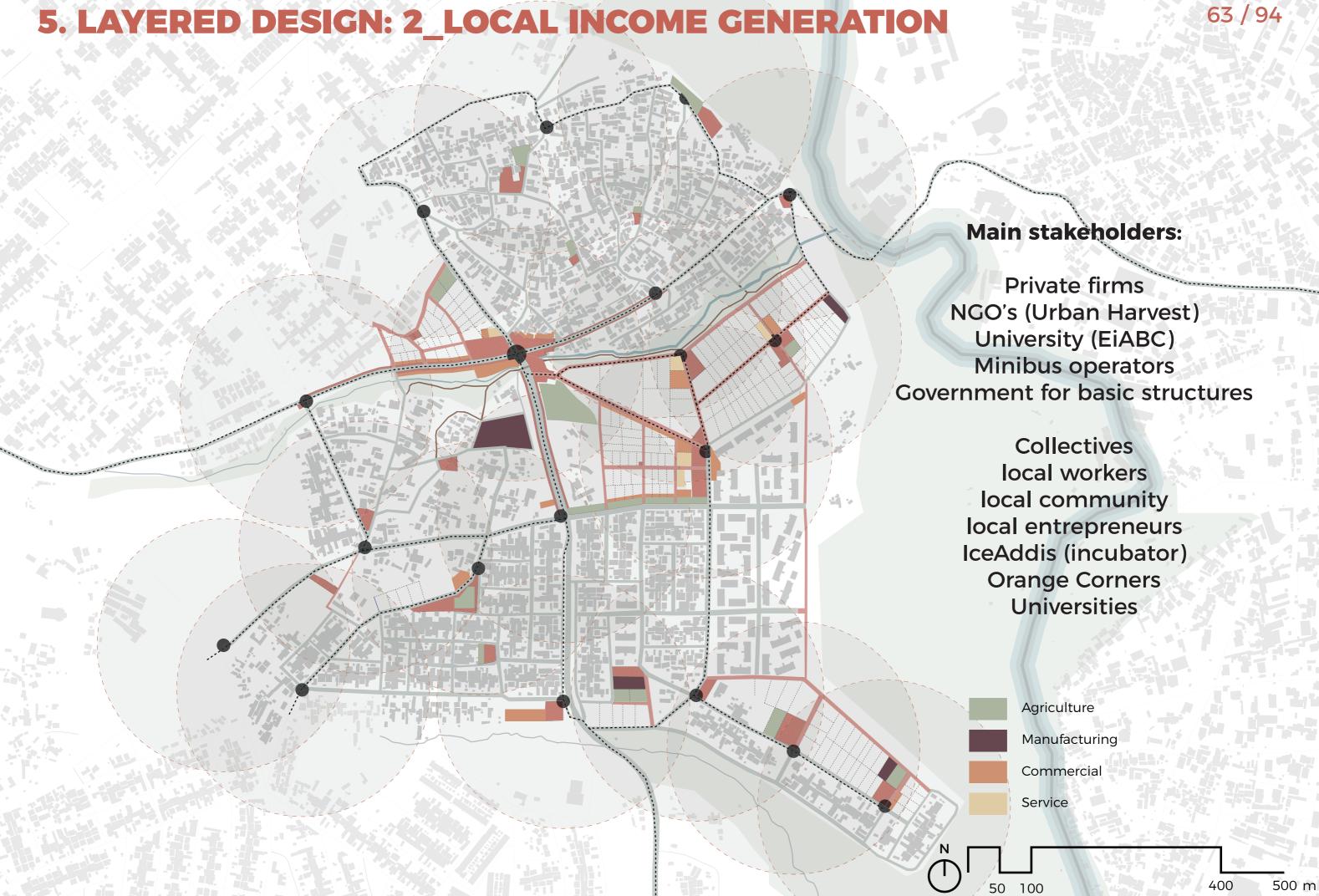


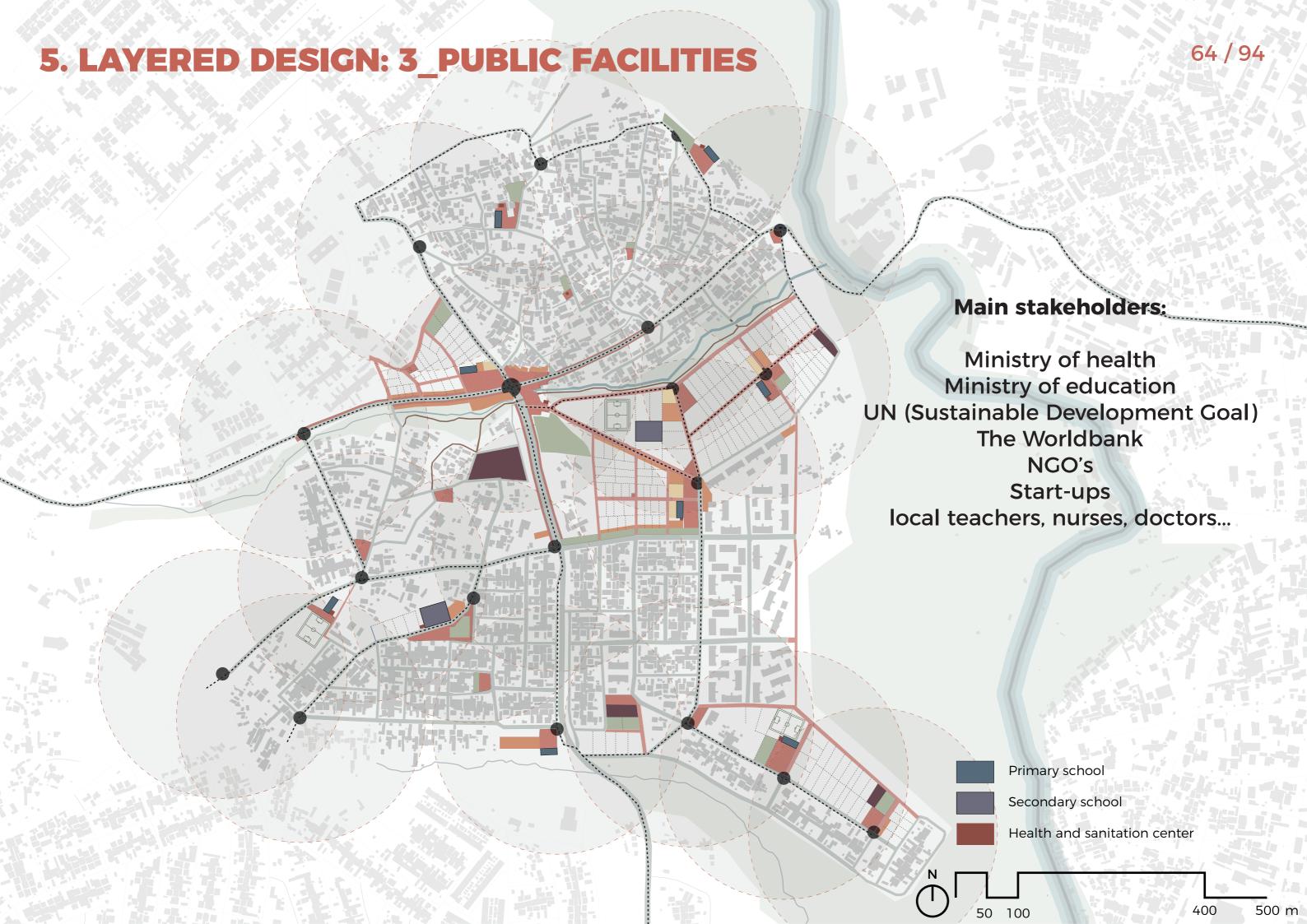
5. LOCAL GOVERNANCE: SEFER COUNCIL PROPOSAL

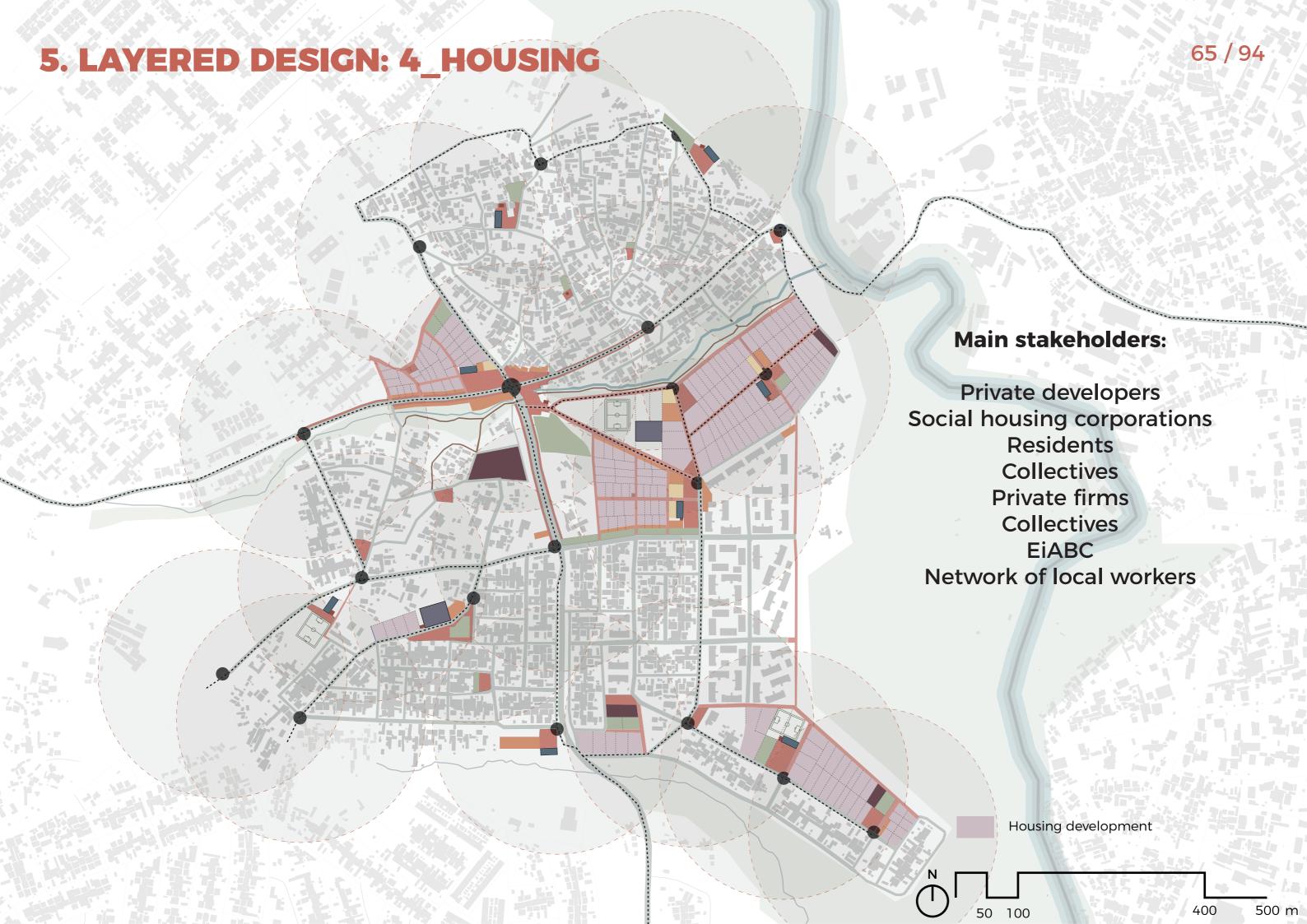
Presidents of community iddir

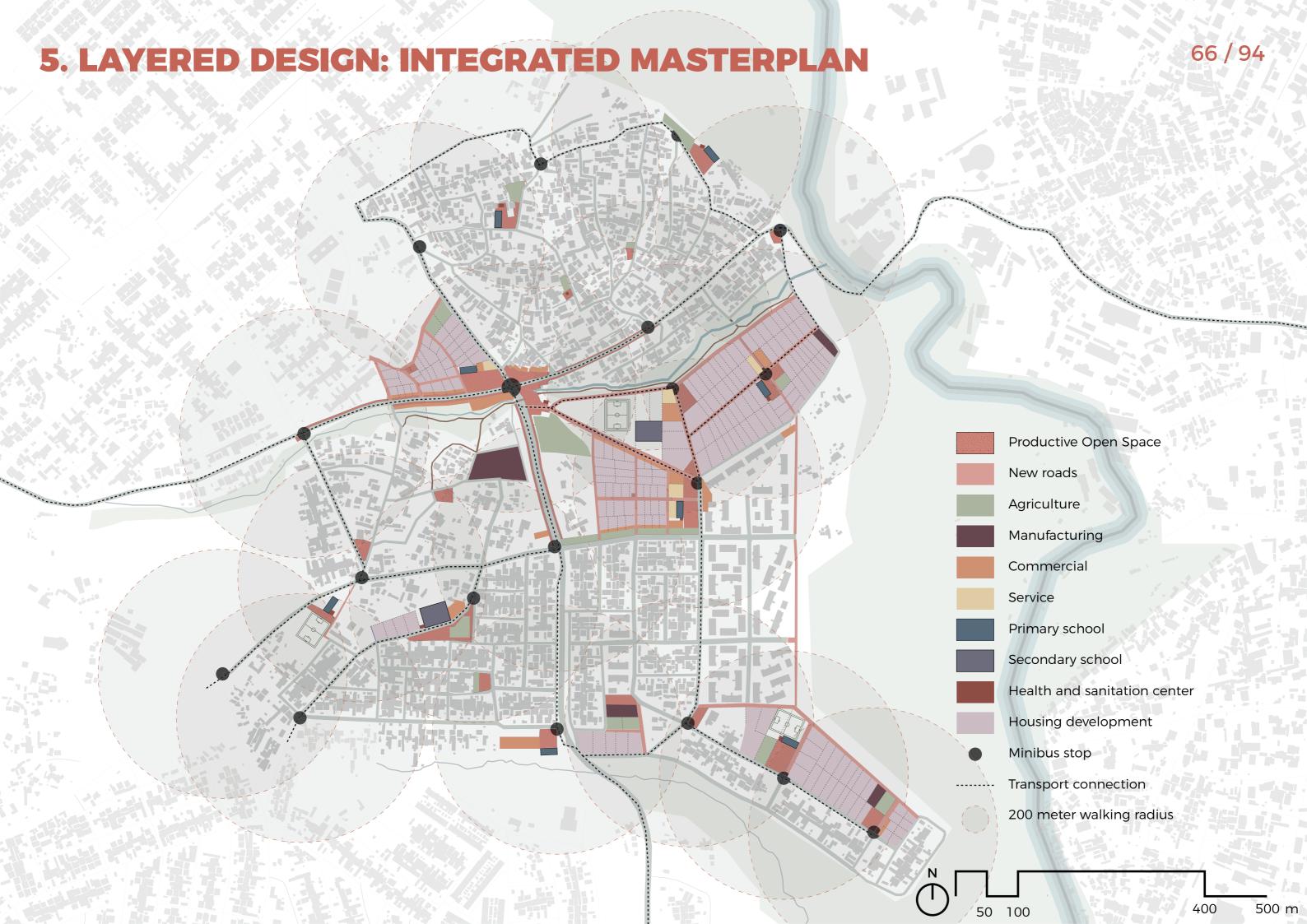


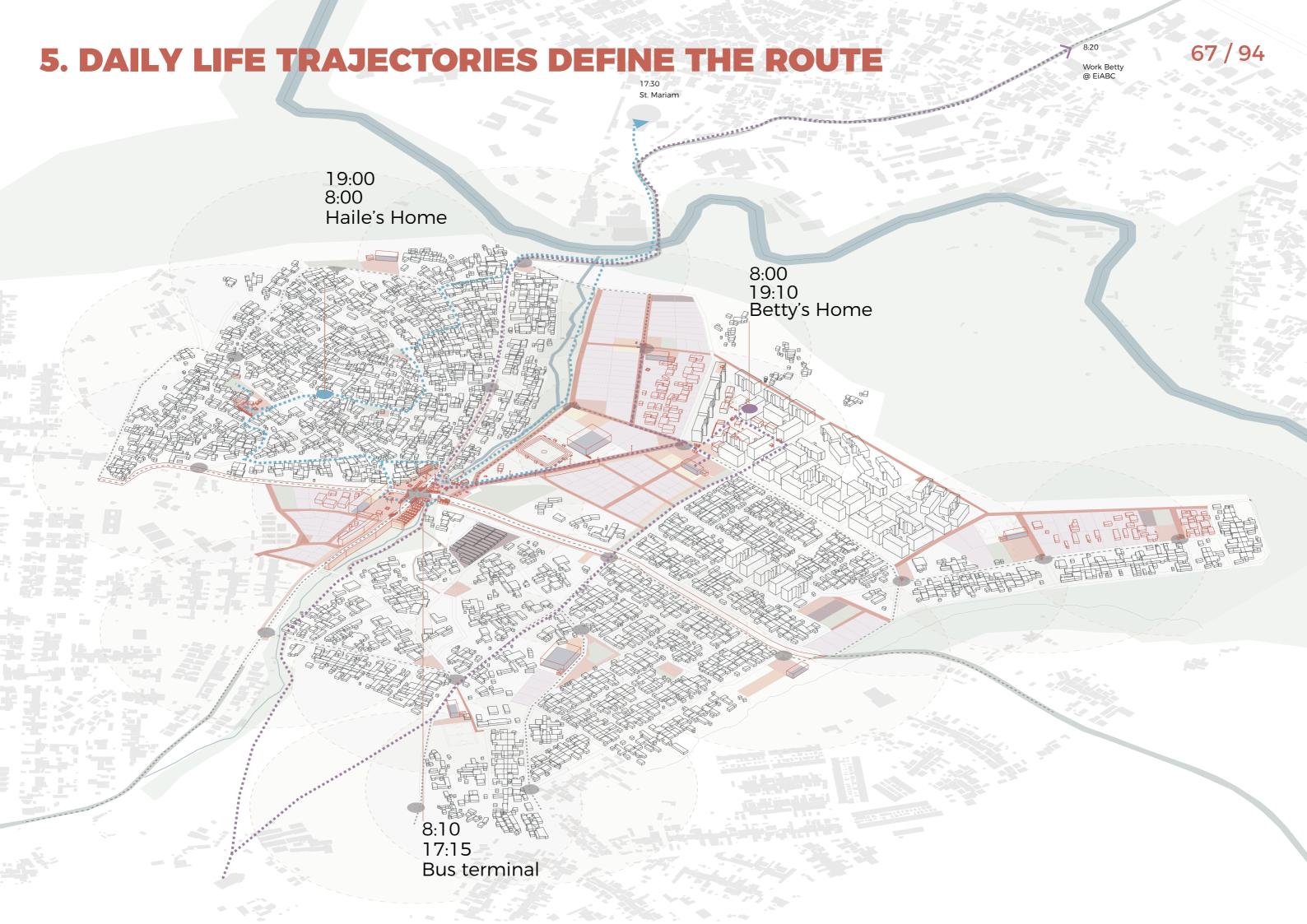


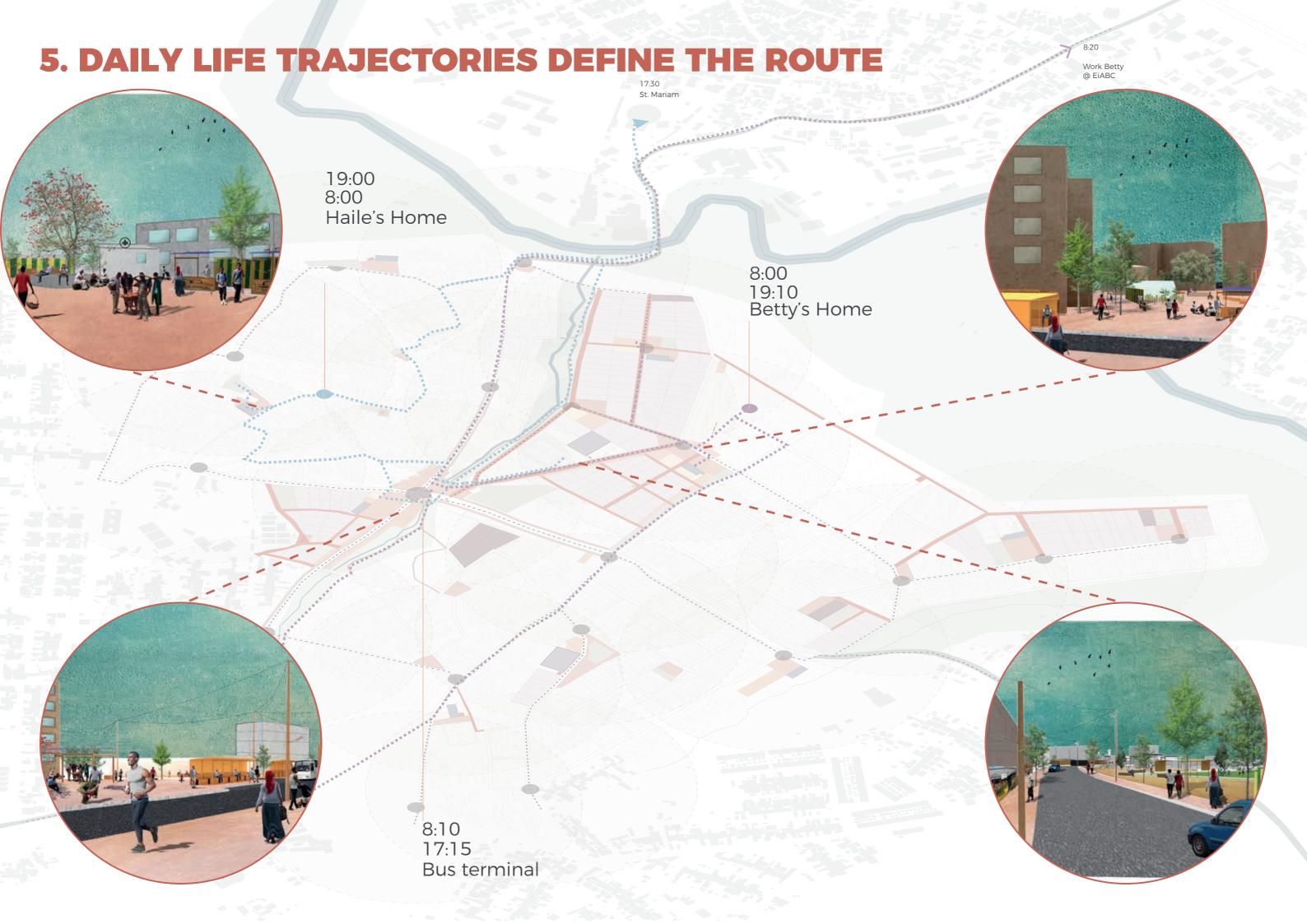




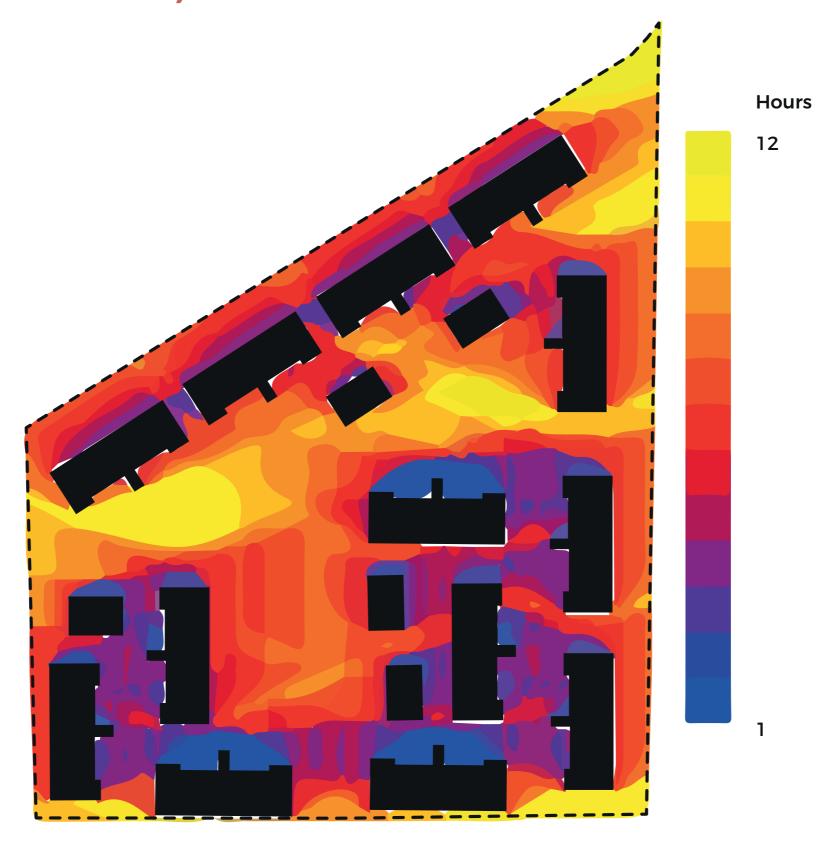






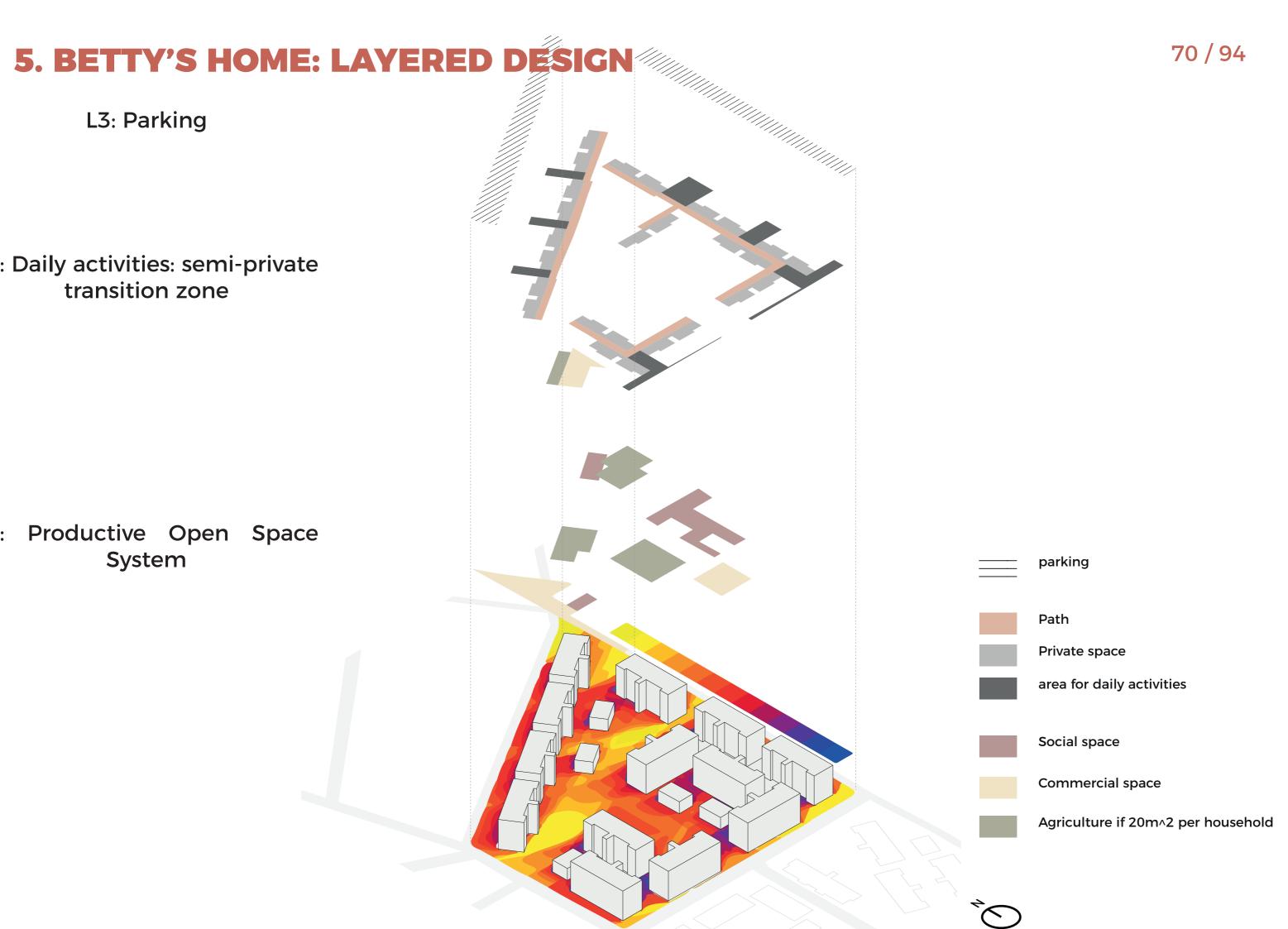


5. BETTY'S HOME: BASE; BEST PLACE FOR AGRICULTURE?

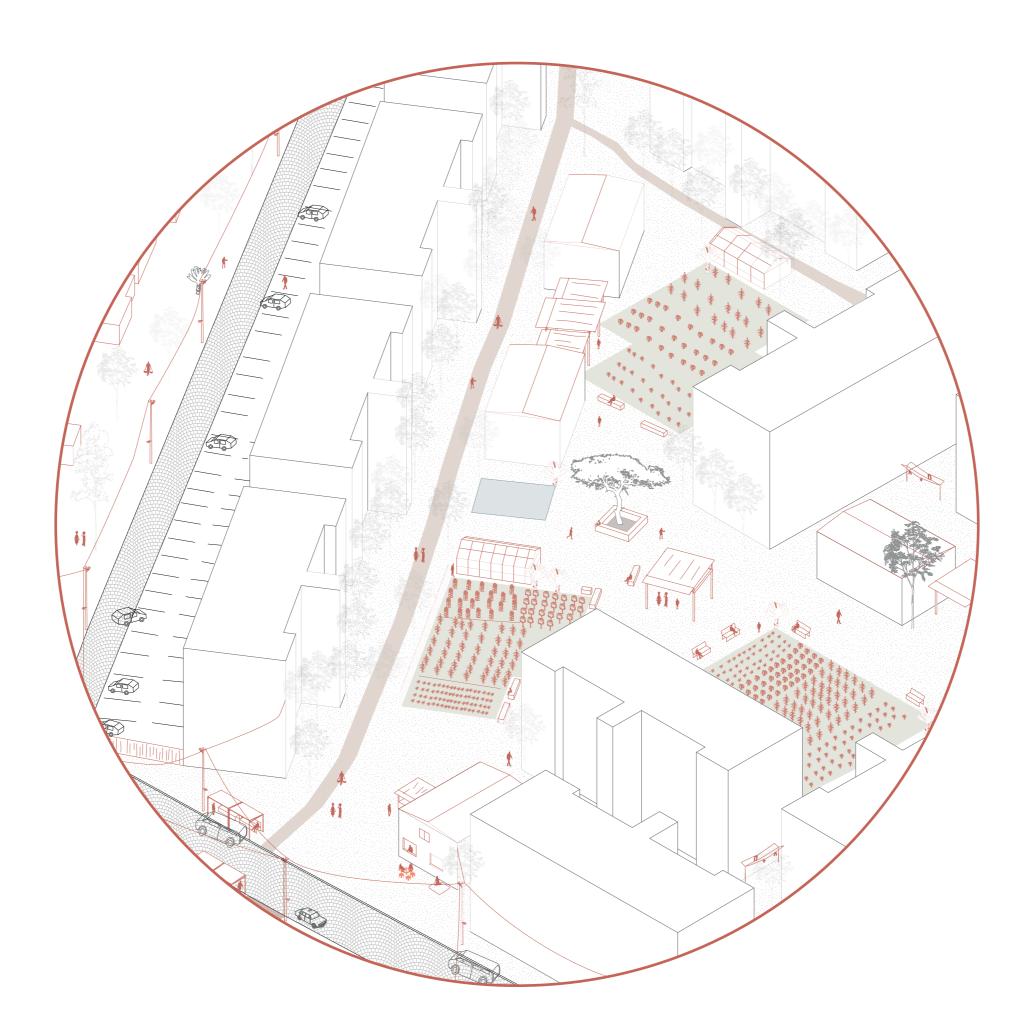


L2: Daily activities: semi-private transition zone

L1: Productive Open Space System



5. BETTY'S HOME: OVERVIEW



5. BETTY'S HOME: ENTRANCE TO THE CONDOMINIUM



5. FROM BETTY TO TERMINAL: PUBLIC CORRIDOR

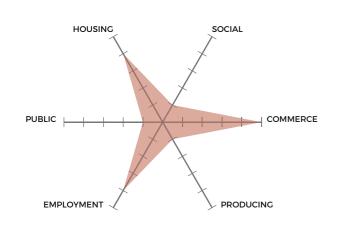


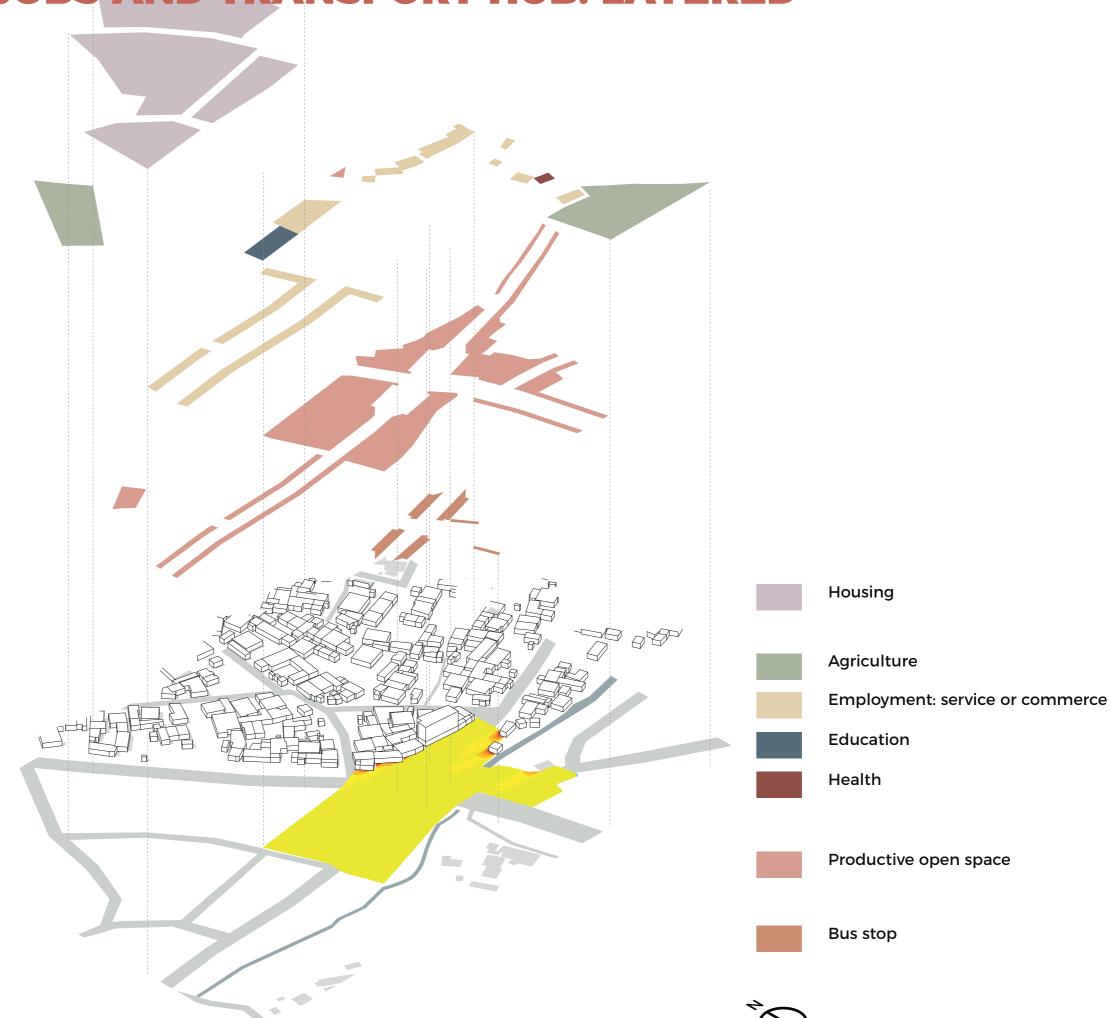
5. NEW TERMINAL: JOBS AND TRANSPORT HUB: LAYERED

L3: Housing development

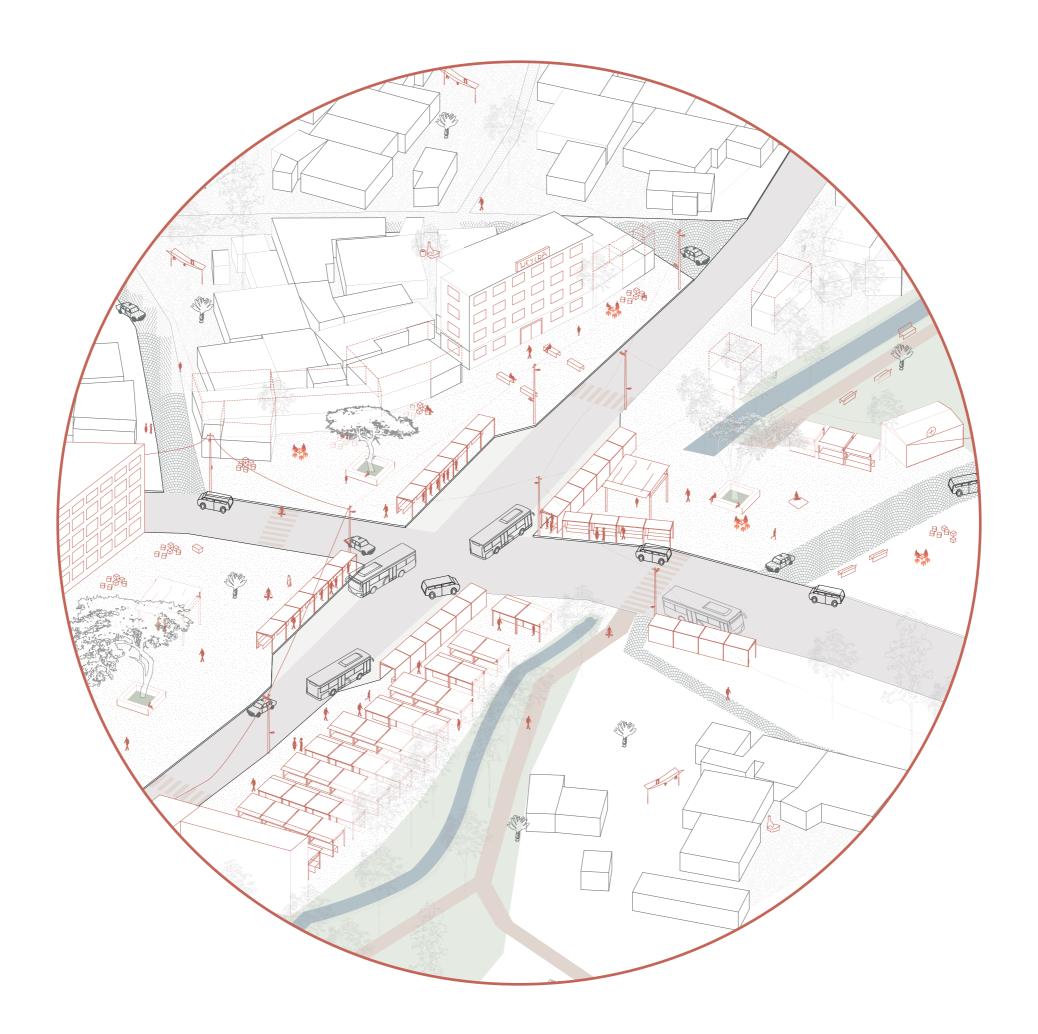
L2: Land-use; employment and education

L1: Productive Open Space System



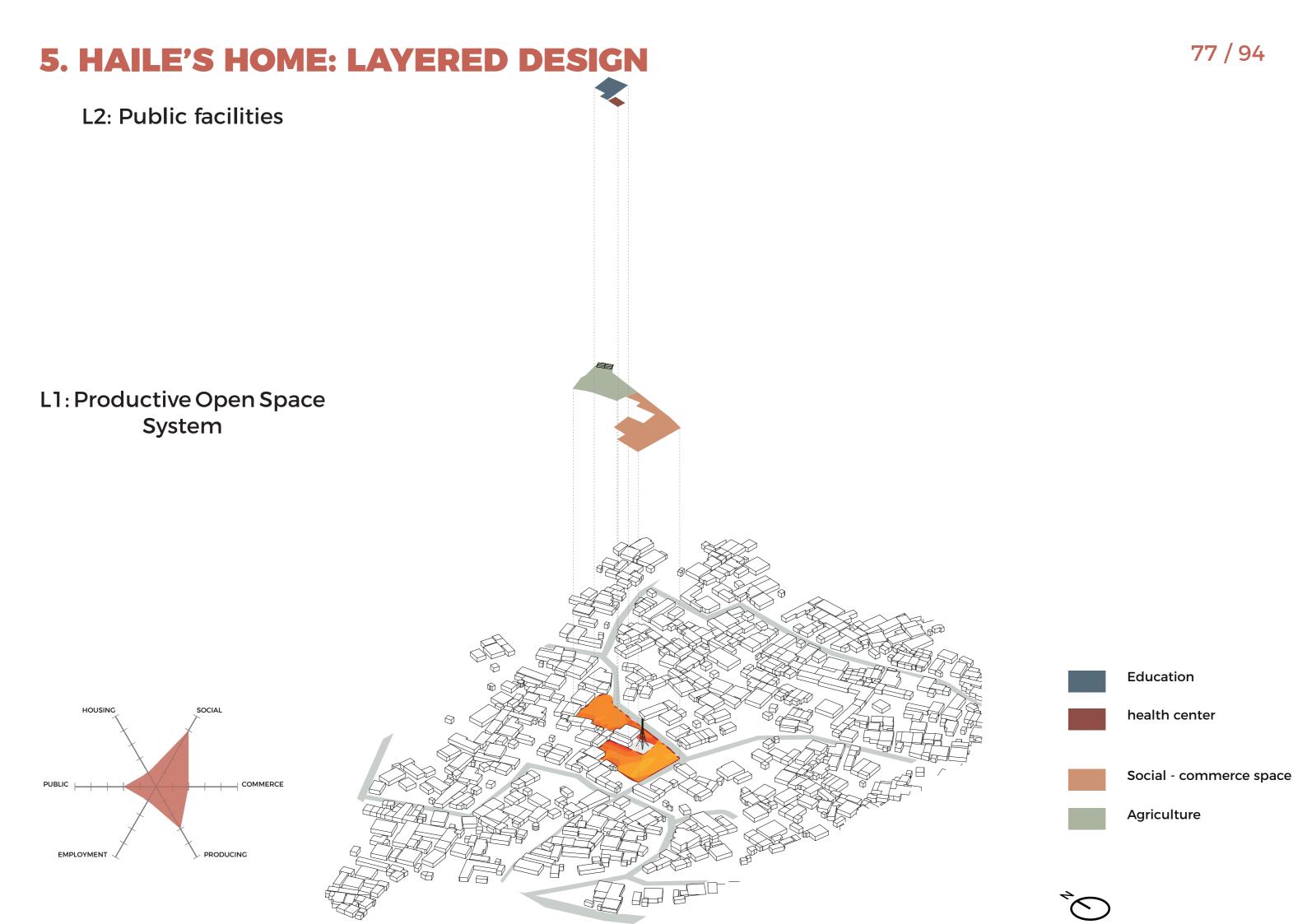


5. NEW TERMINAL: JOBS AND TRANSPORT HUB: OVERVIEW

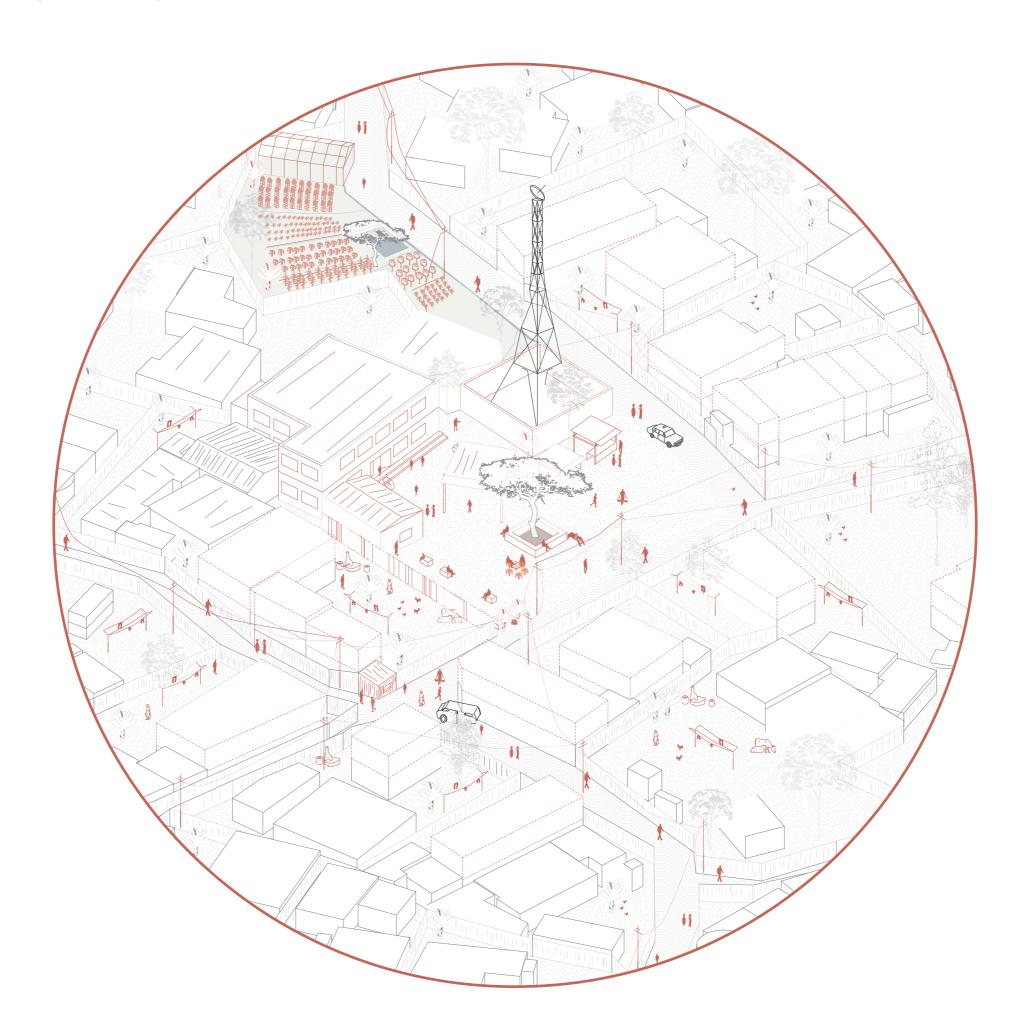


5. NEW TERMINAL: JOBS AND TRANSPORT HUB: IMPRESSION





5. HAILE'S HOME: OVERVIEW

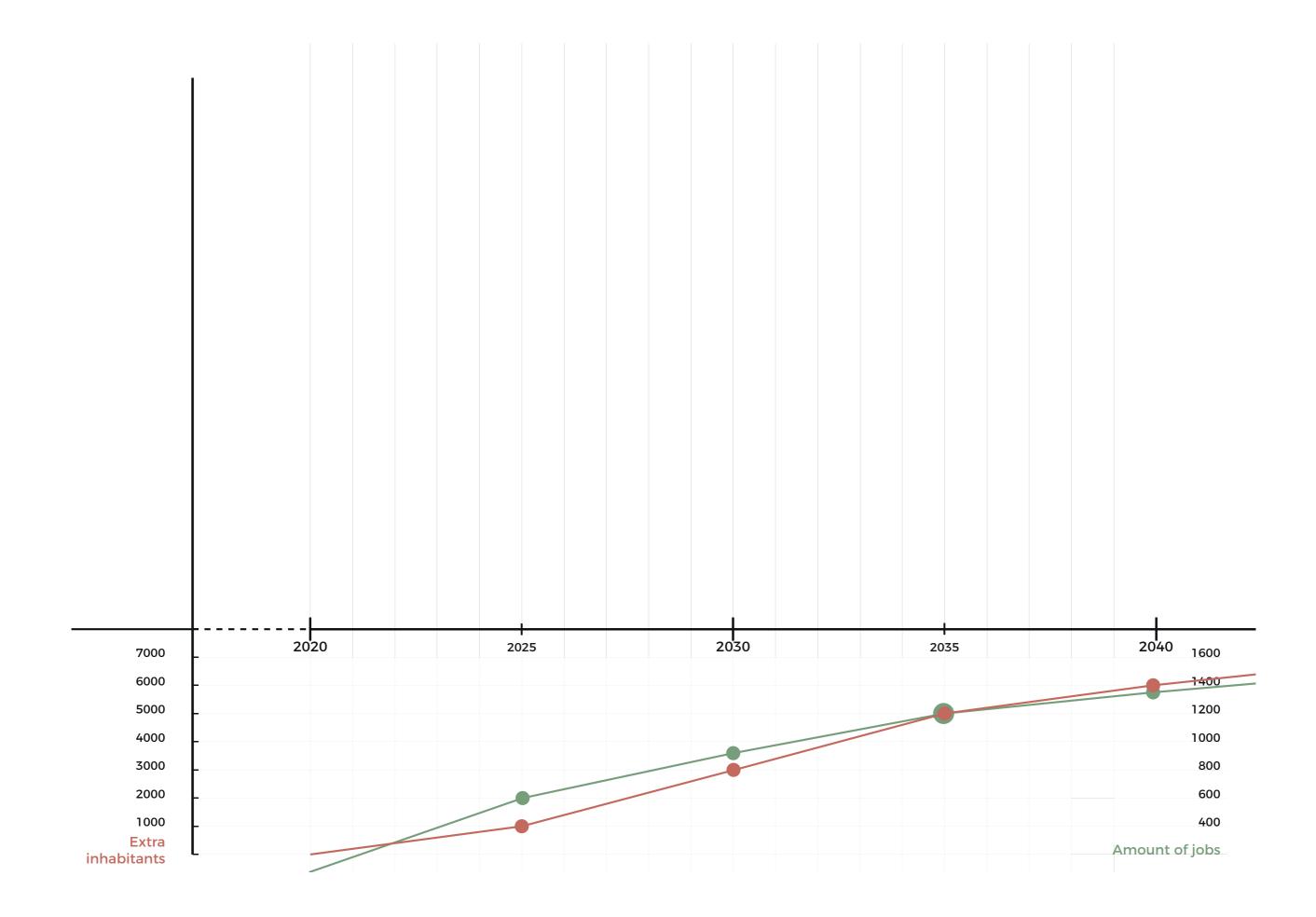


5. HAILE'S HOME: COMMUNAL SPACE

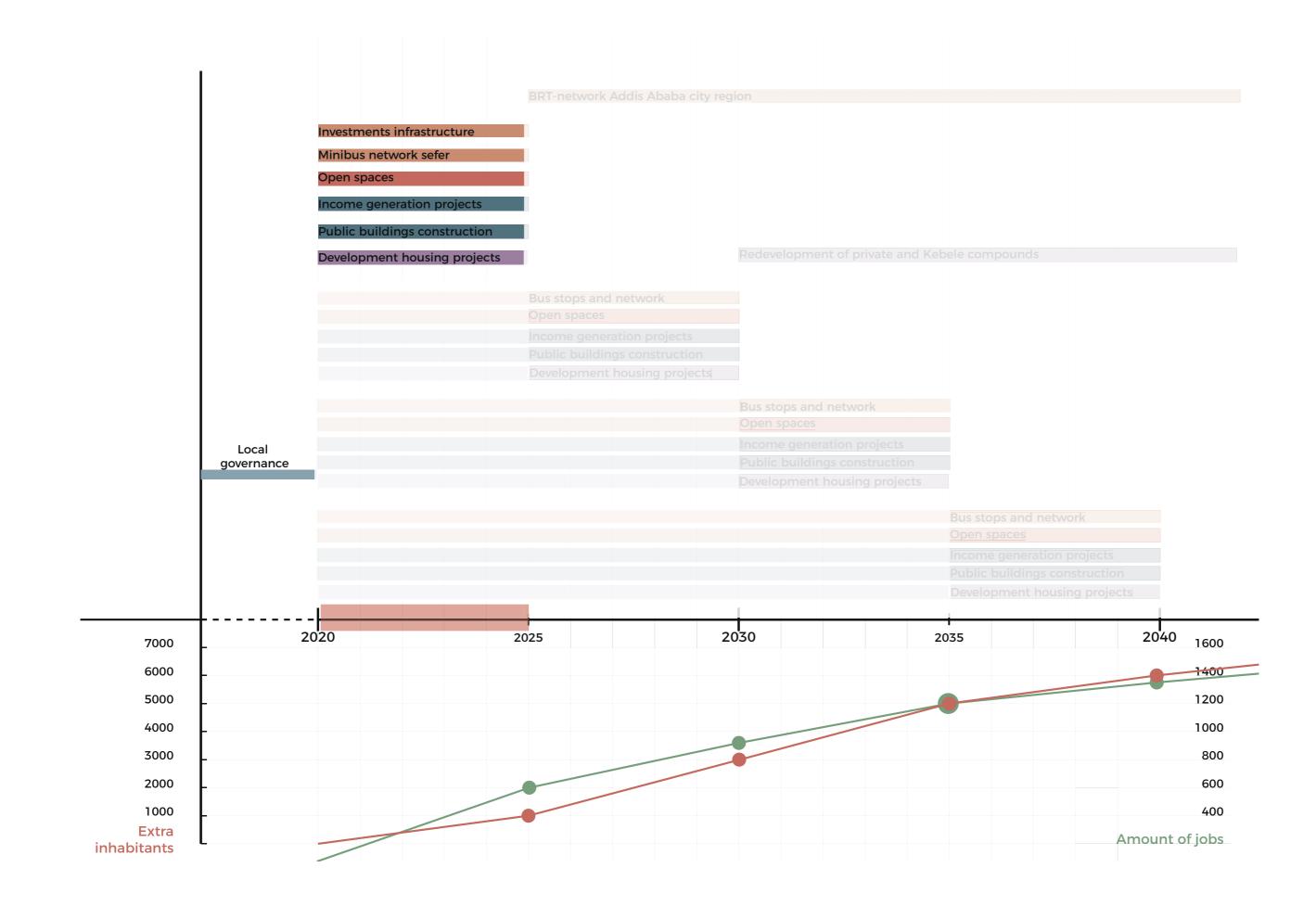


6. PHASING AND PERFORMANCE: WHAT IS ACHIEVED?

6. PHASING

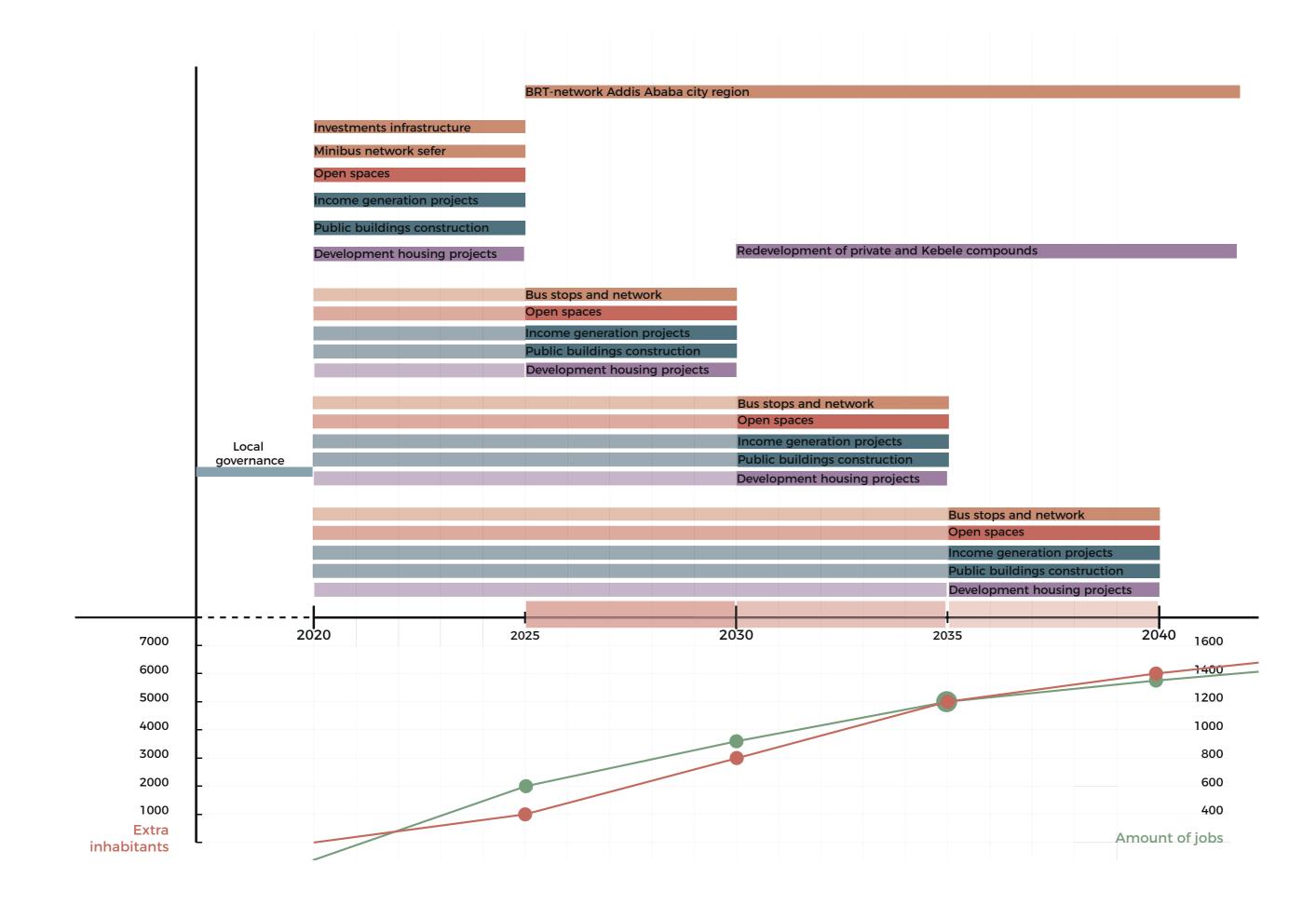


6. PHASING: PHASE 1

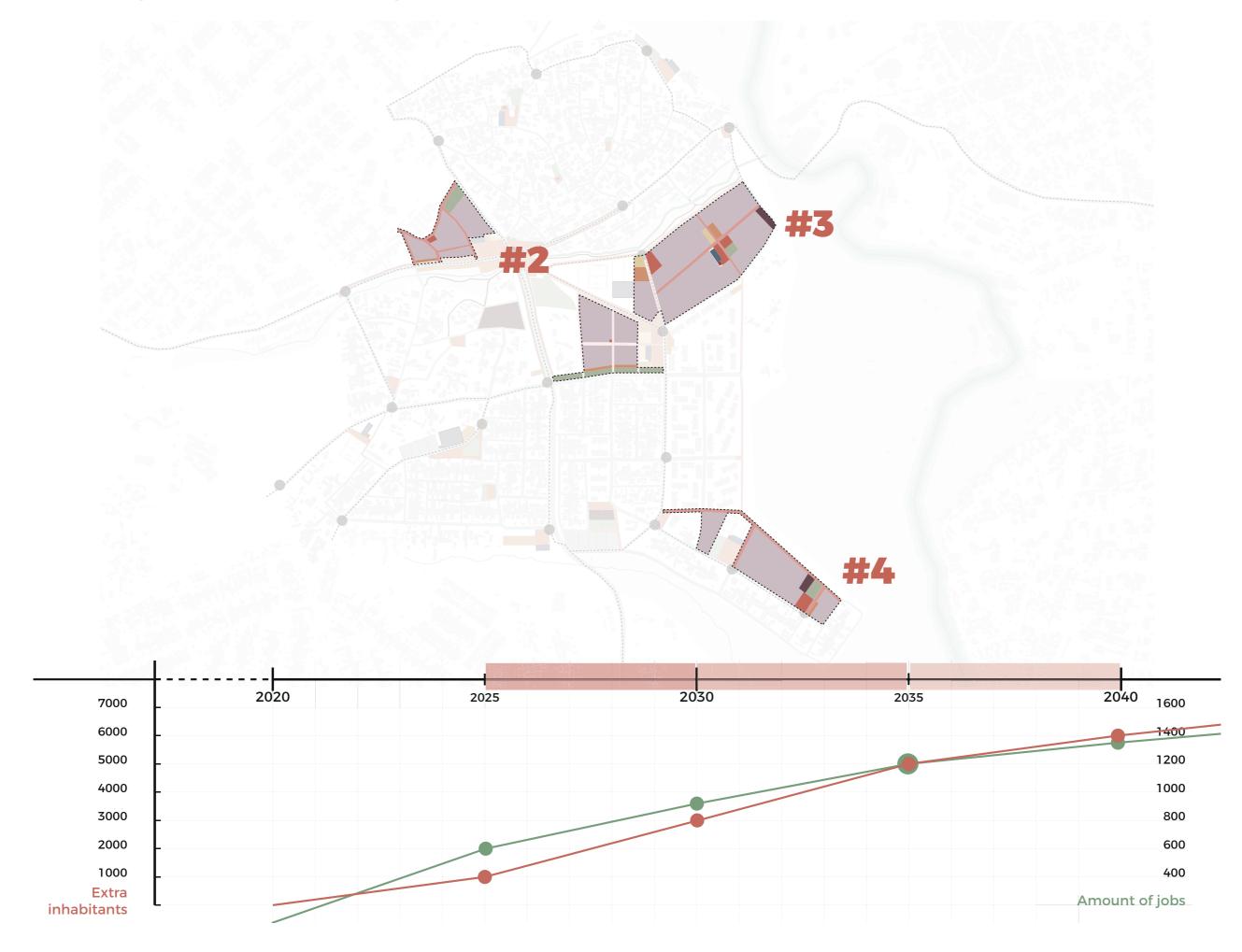




6. PHASING: PHASE 2 + 3 + 4



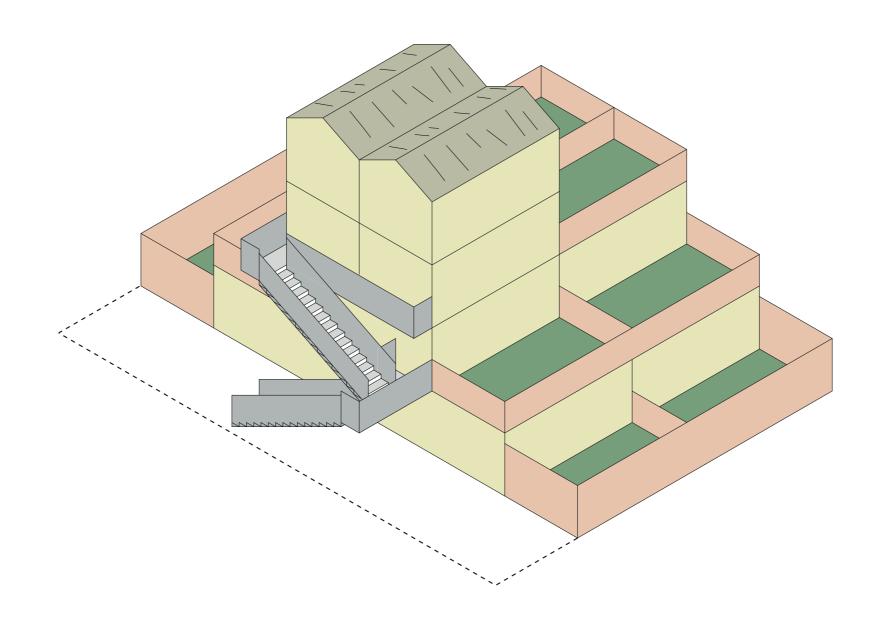
6. PHASING: PHASE 2 + 3 + 4



6. PERFORMANCE

| LAYER | OBJECTIVES | SURFACE IN STRATEGY | ACHIEVED | YN |
|----------------------|--|------------------------|-------------------------|----|
| POSS | 20 % open space / total | 151.826 m² | 22 % | |
| | 1/2 * [current travel time] | _ | N/A | ? |
| INCOME GENERATION | manufacturing [10m²]: 581 jobs | 5120 m² | 512 jobs | |
| | agriculture [20m²]: 581 jobs | 12756 m² | 637 jobs | |
| | service [5m²]: 581 jobs | 4502 m² | 900 jobs | |
| | commercial [5m²]: 581 jobs | 7274 m² | 1454 jobs | |
| | 2324 jobs within the sefer | | total: 3505 jobs (=38%) | |
| PUBLIC FACILITIES | 250 m² footprint for 250 primary students (= 2 floors) | 2000 m² | 8 primary schools | |
| | 1200 m² footprint for 1200 secondary students (= 3 floors) | 2400 m² | 2 secondary schools | |
| | 40 m² per sanitation unit | 360 m² | 9 sanitation units | |
| HOUSING | 6000 inhabitants [18.75 m²] | 67.096 m² | 3578 inhabitants | |

6. PERFORMANCE: OTHER HOUSING TYPOLOGIES



8 dwellings (4 inhabitants) 30m² open space per household Total compound: 340 m²

10.6 m² footprint / person

6. PERFORMANCE: RETURN TO THE VISION





A PRODUCTIVE OPEN SPACE SYSTEMS CONTRIBUTES TO THE INCREASED ACCESS TO LOCAL INCOME GENERATION.

6. PERFORMANCE: RETURN TO THE VISION

| | CATEGORIES | POSS STRATEGY | CURRENT APPROACHES |
|---------------|--------------------------|--|---|
| ACCESSIBILITY | to income generation | >25 % within own sefer | high travel costs |
| | to public services | schools + health within sefer | high travel costs |
| | Integration | housing - employment | no integration |
| GOVERNANCE | Implementation | local: focus on civic sector (iddir) | top-down, only government + private actors |
| | use of resources | focus on human capital | lack of financial capital |
| | Stakeholders involvement | horizontal; all stakeholders involved whole process | vertical hierarchy |
| SOCIAL | mixity | mixing of income groups | creation of income enclaves |
| | social sustainability | existing social networks | relocation disrupts social ties |
| SPACE-USE | productive use | open space for productive use | open space for more buildings |
| | water resilience | Protective buffer zones around rivers | Protective buffer zones around rivers |
| HOUSING | typologies | Mixed | Copy paste and modern materials |
| | private space | creating private open spaces | No private open space |

6. REGIONAL DREAM

Center

Weyira sefer

Other sefers

Cluster



6. REGIONAL DREAM

Center

Weyira sefer

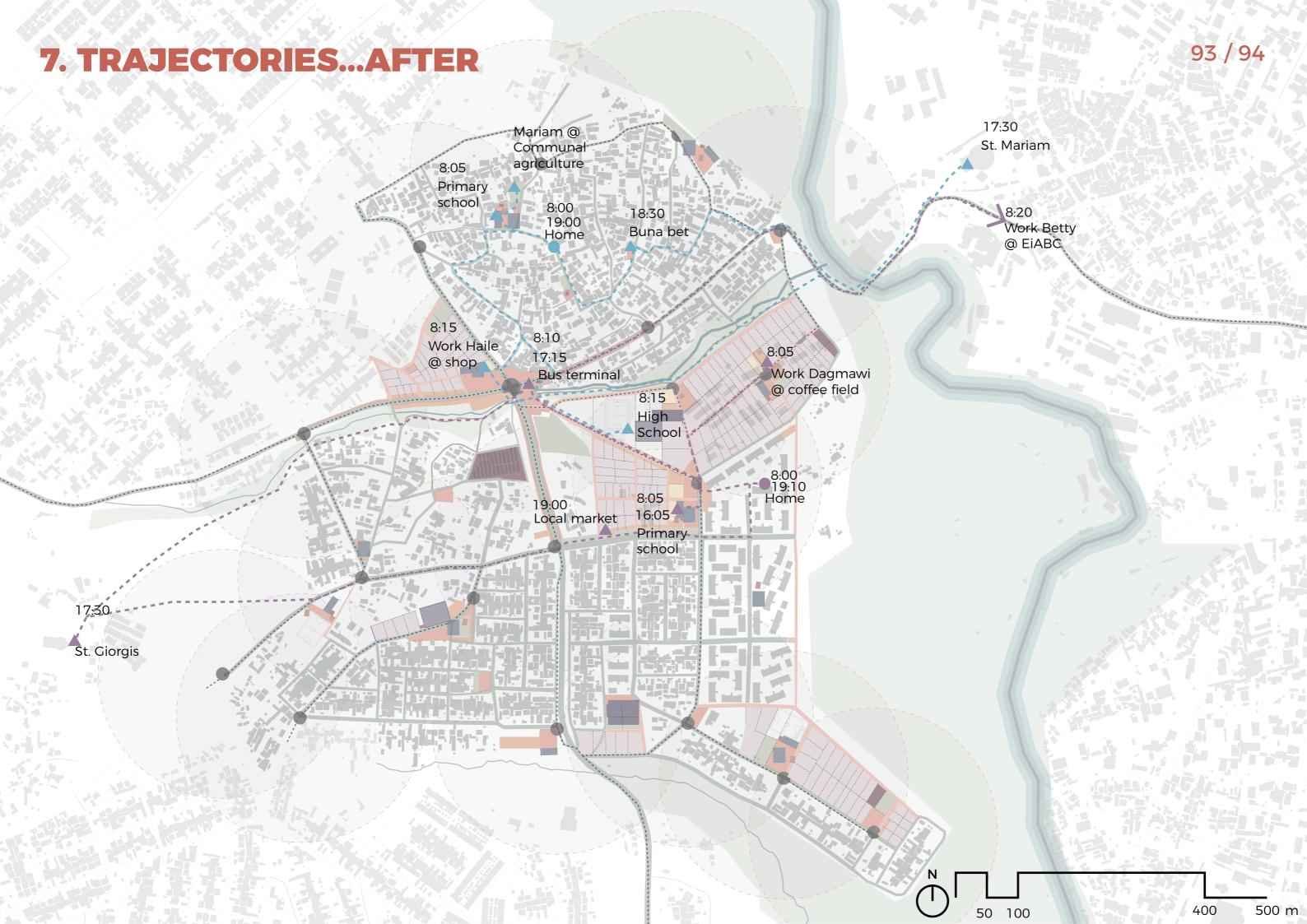
Other sefers

Cluster

MRT



7. EPILOGUE: TEN YEARS LATER



7. TEN YEARS LATER: HAILE AND BETTY'S IMPROVED LIFE

