

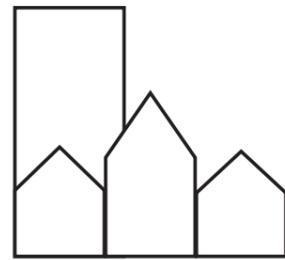
# **AVIAPOLIS WTWMF VANTAA**



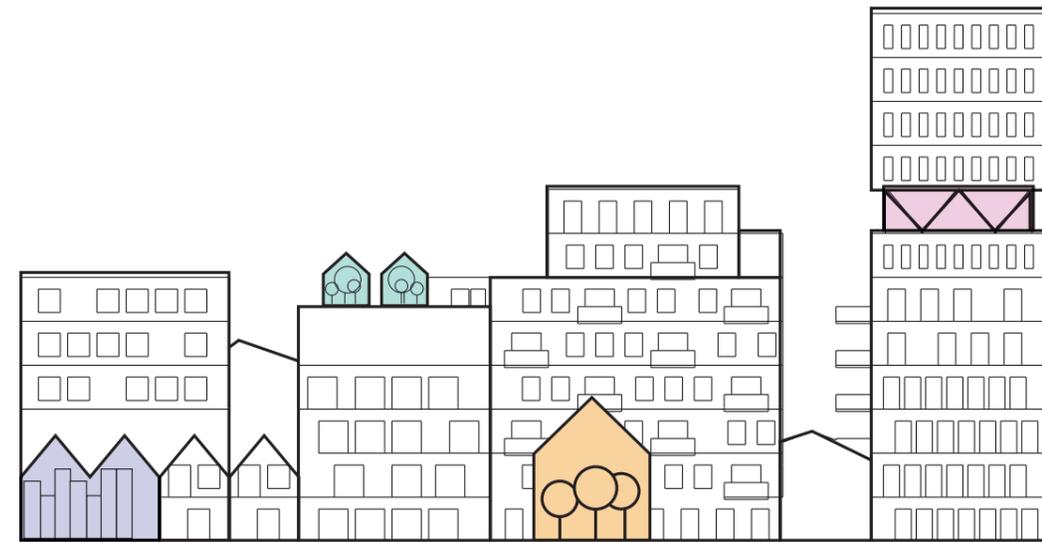


**WORLD**

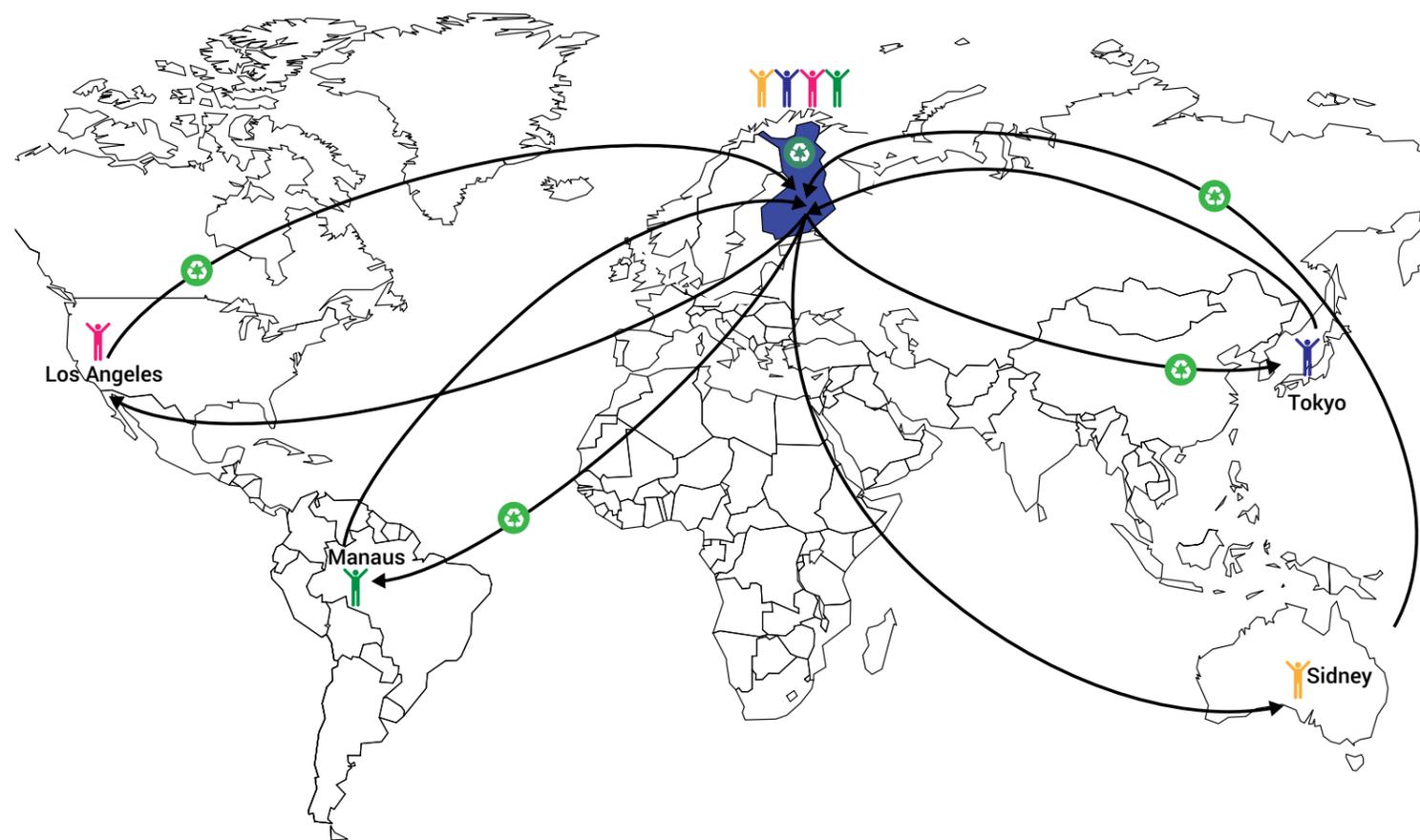
+



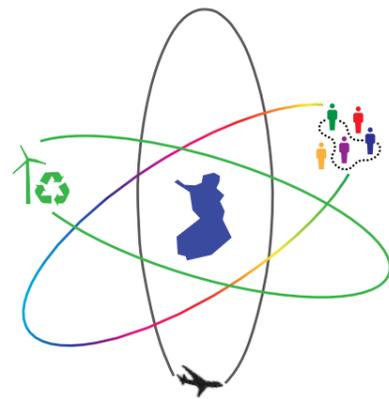
**FINLAND**



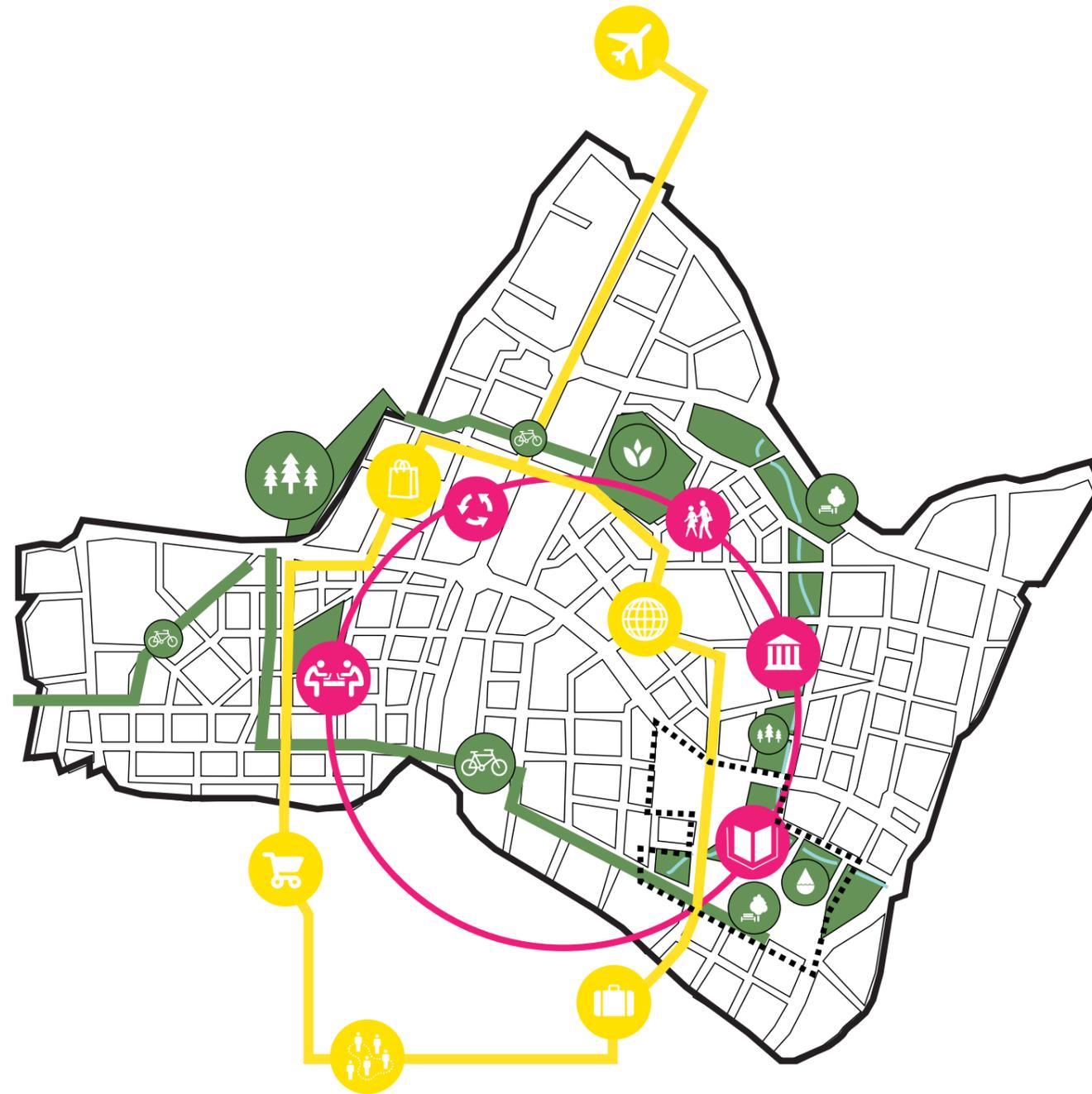
**WHERE THE WORLD MEETS FINLAND**



## WORLD - FINLAND



Aviapolis is a gateway from Finland to the world. 20 million passengers will pass through the bustling Helsinki-Vantaa air-traffic hub in 2020. The airport introduces a rich cultural exchange to Vantaa and forms a junction where local life meets global flows. There are consequences for this richness, the airport's air traffic generates great amounts of waste that degrades the local environment.



## FINLAND - AVIAPOLIS



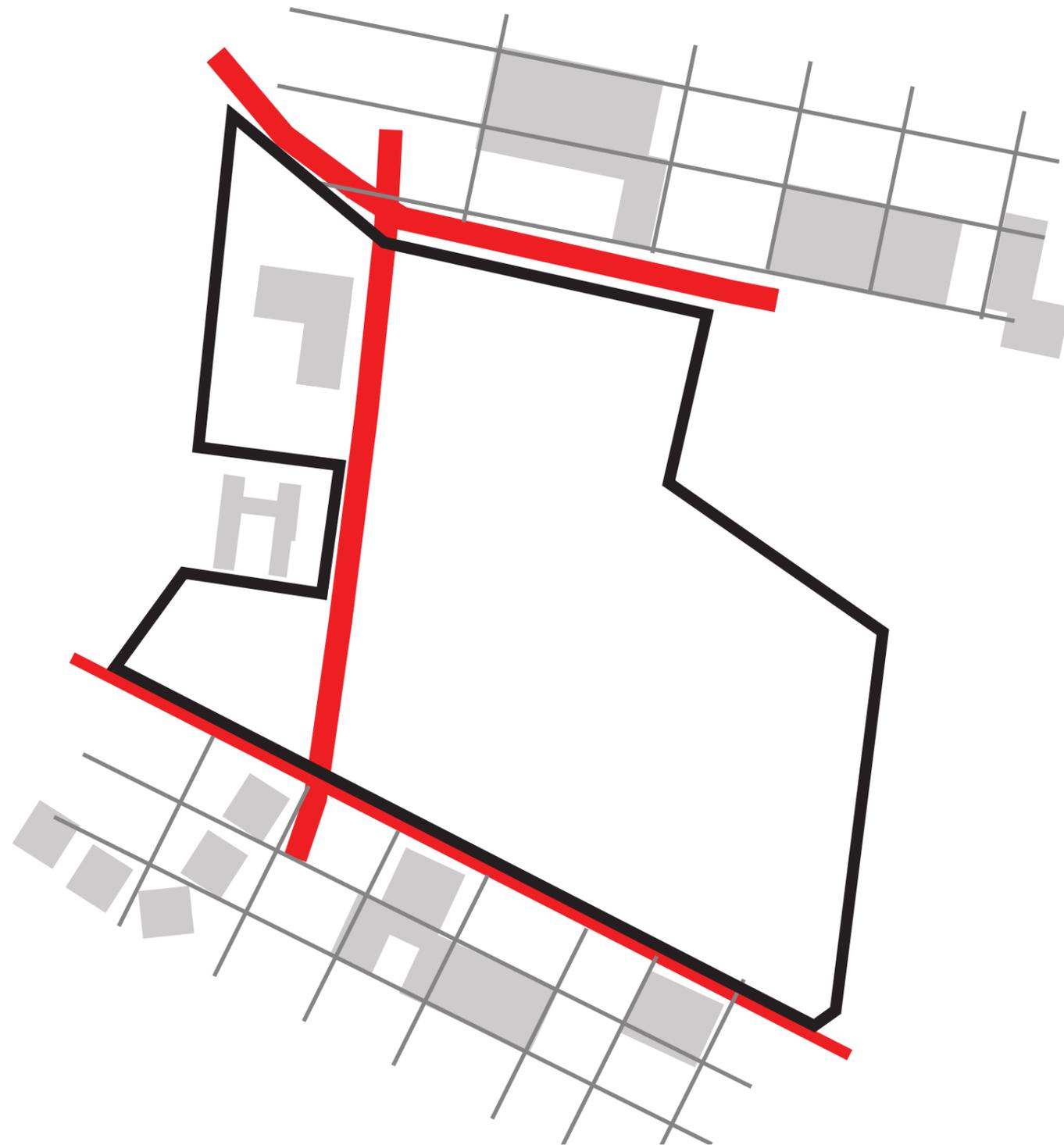
By constructing a resource-efficient neighbourhood that involves local residents and is connected to the world, Aviapolis can become a flagship project for circular economy and shared systems thinking. The systems are supported by the structure through collective shared spaces that are found within the blocks and throughout the public realm.



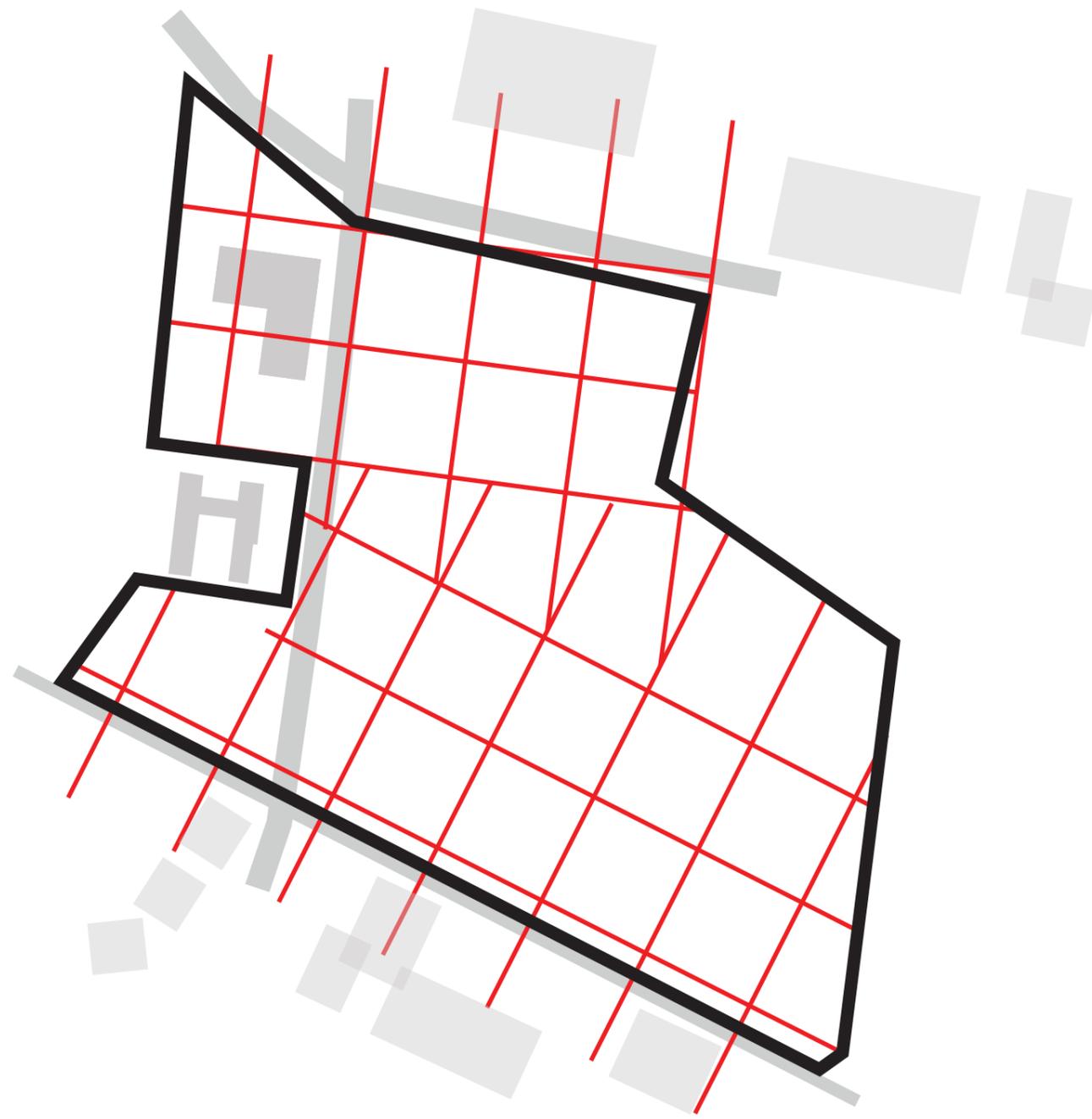
## AVIAPOLIS- NEIGHBOURHOOD



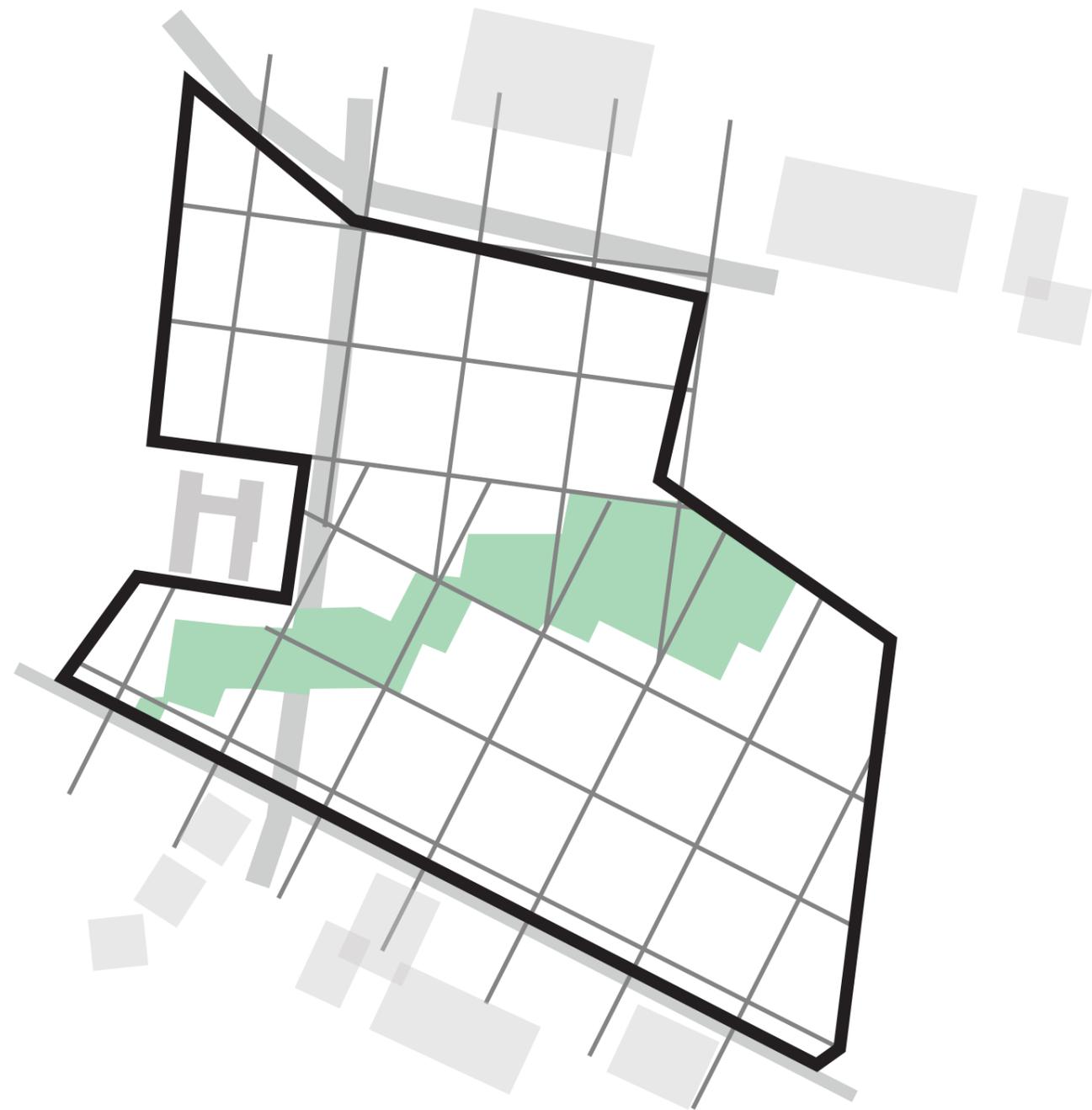
The social atoms - the dense network of shared functions and activities - are framed by an exciting mix of work and housing typologies. The blocks embrace diversity, encouraging a combination of building heights, typologies, configurations and uses.



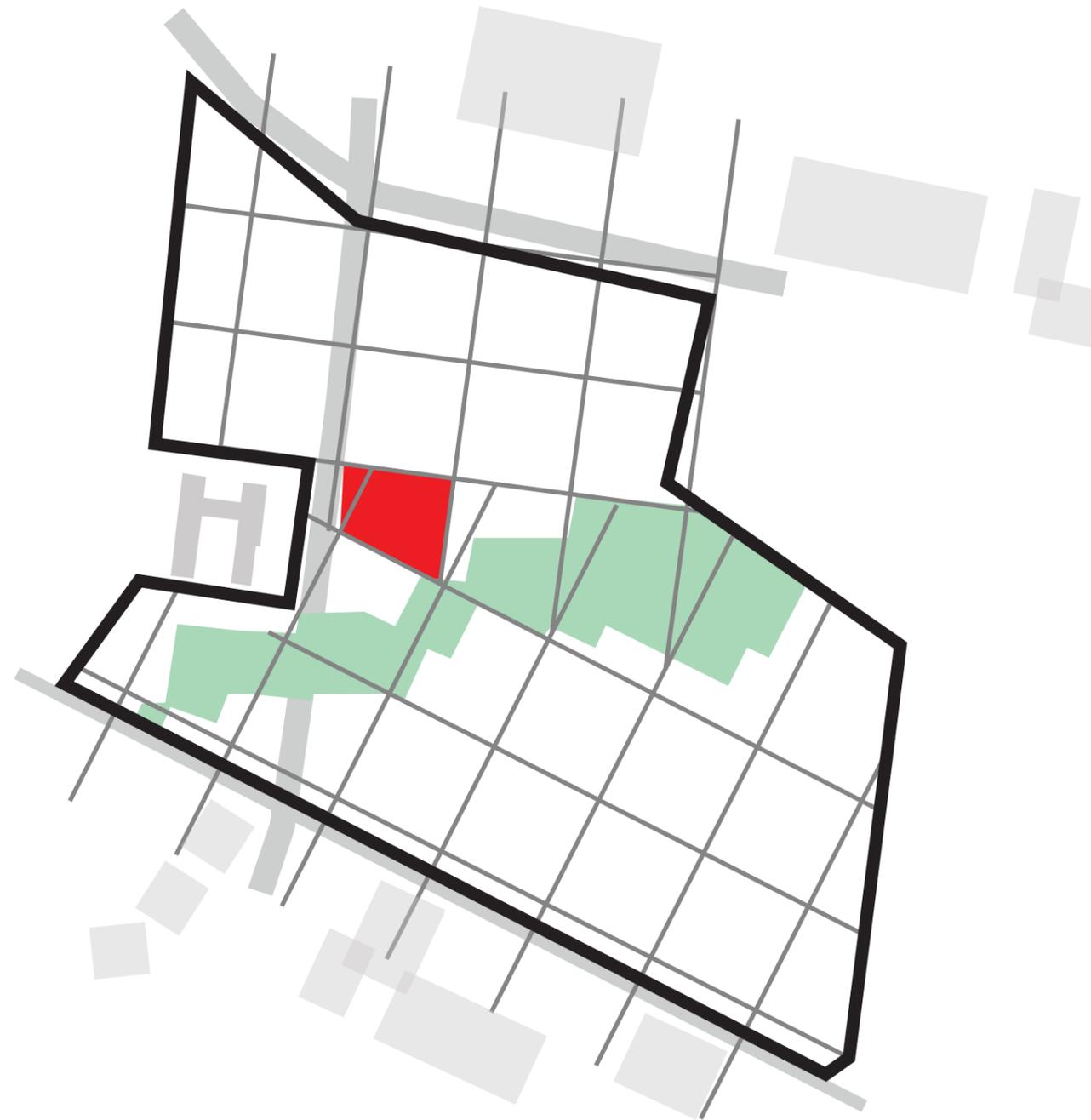
**1. SITE TODAY + CONTEXT GRID**



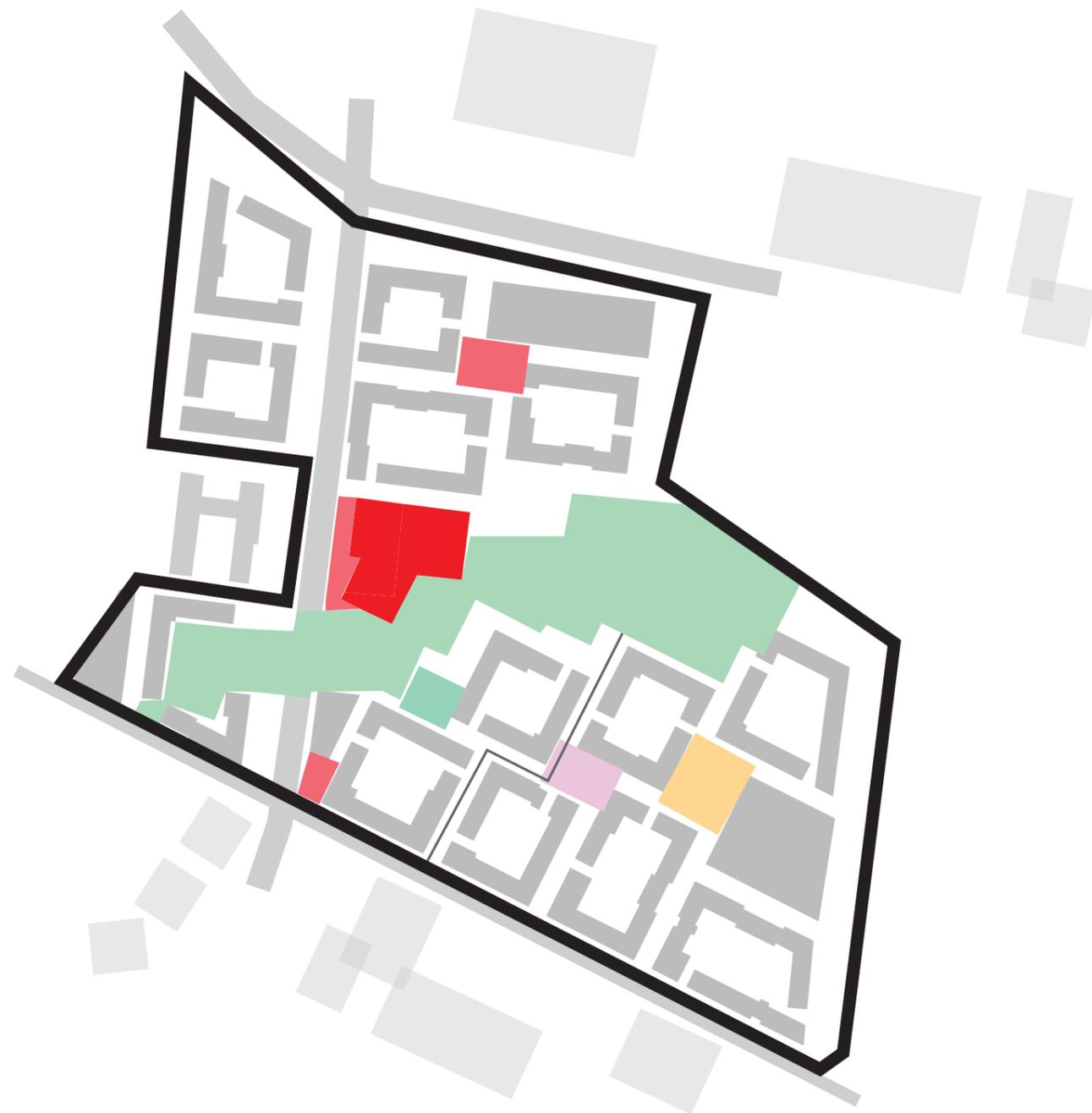
## 2. EXTENDING THE GRID



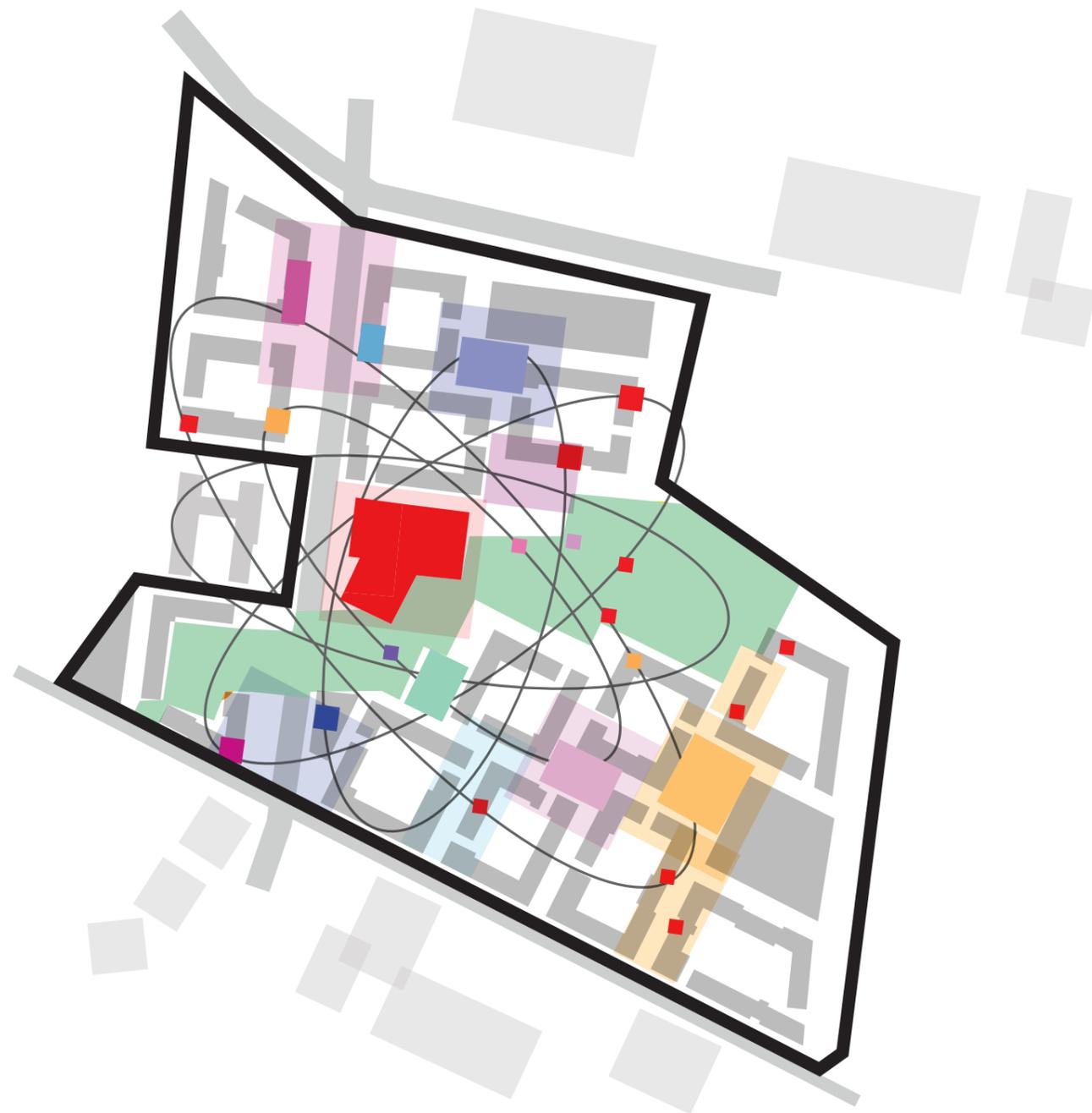
### 3. BLUE GREEN BINDING THE GRIDS



#### 4. ATOMI EDUCATION CATALYST



**5. SHIFTING STRUCTURE MAKES ROOM  
FOR SOCIAL POCKETS**

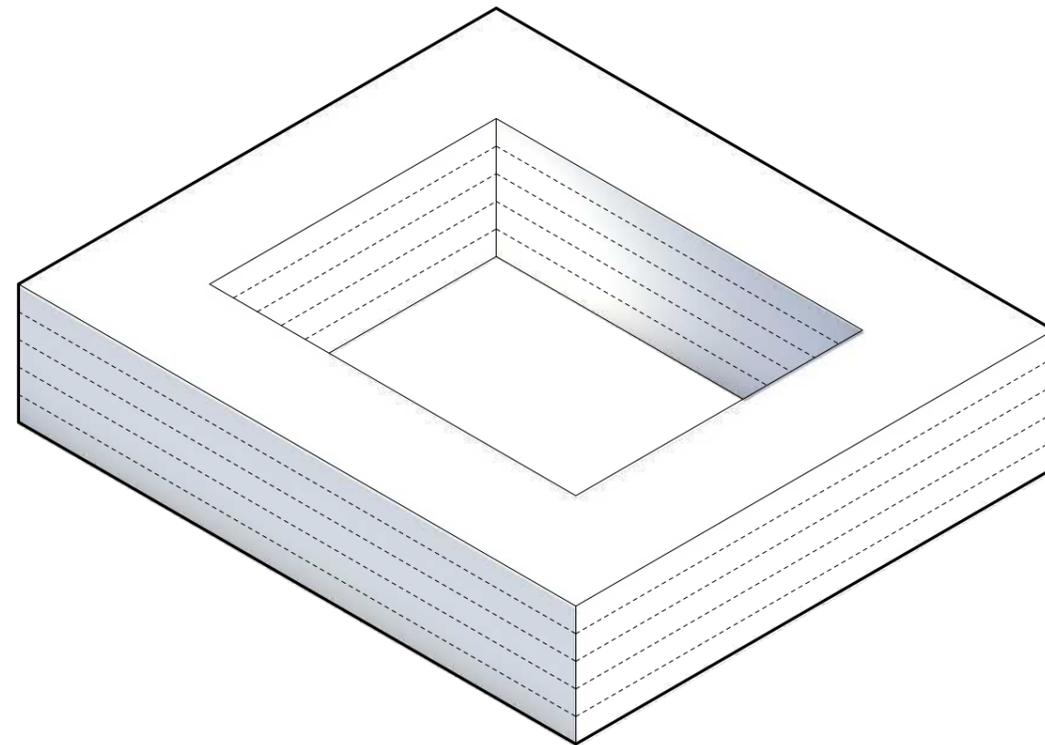


**6. SOCIAL ATOMS VARIETY GIVING  
ENERGY FOR LIFE AND LOCAL IDENTITY**



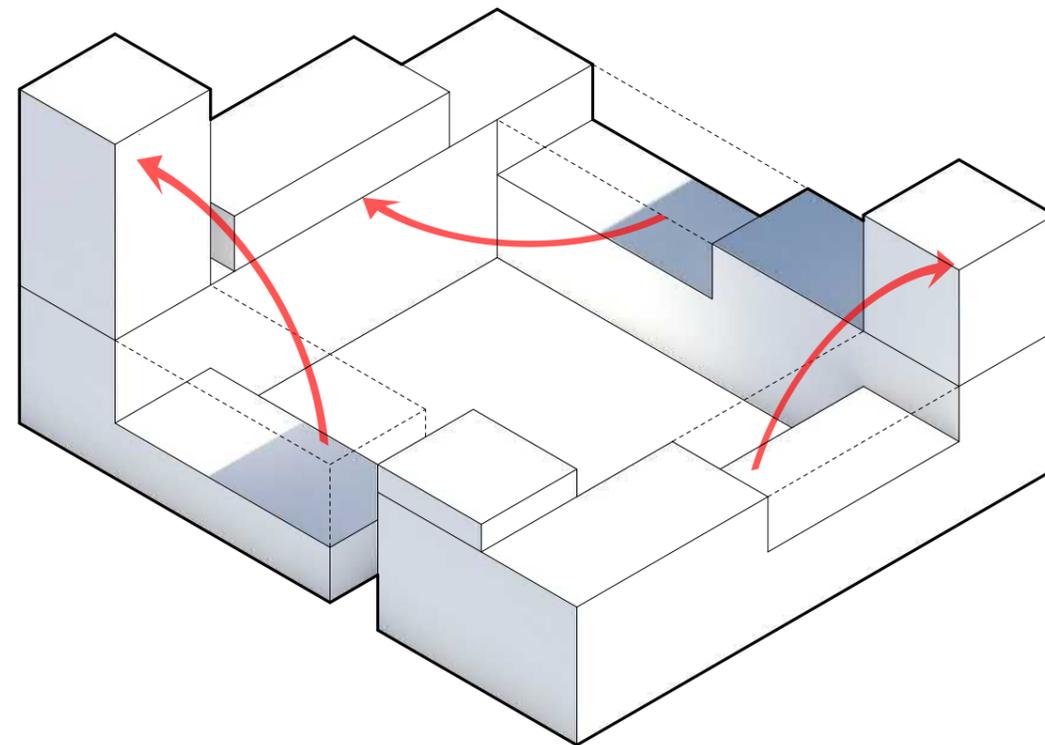


# THE AVIAPOLIS BLOCK



## TRADITIONAL BLOCK

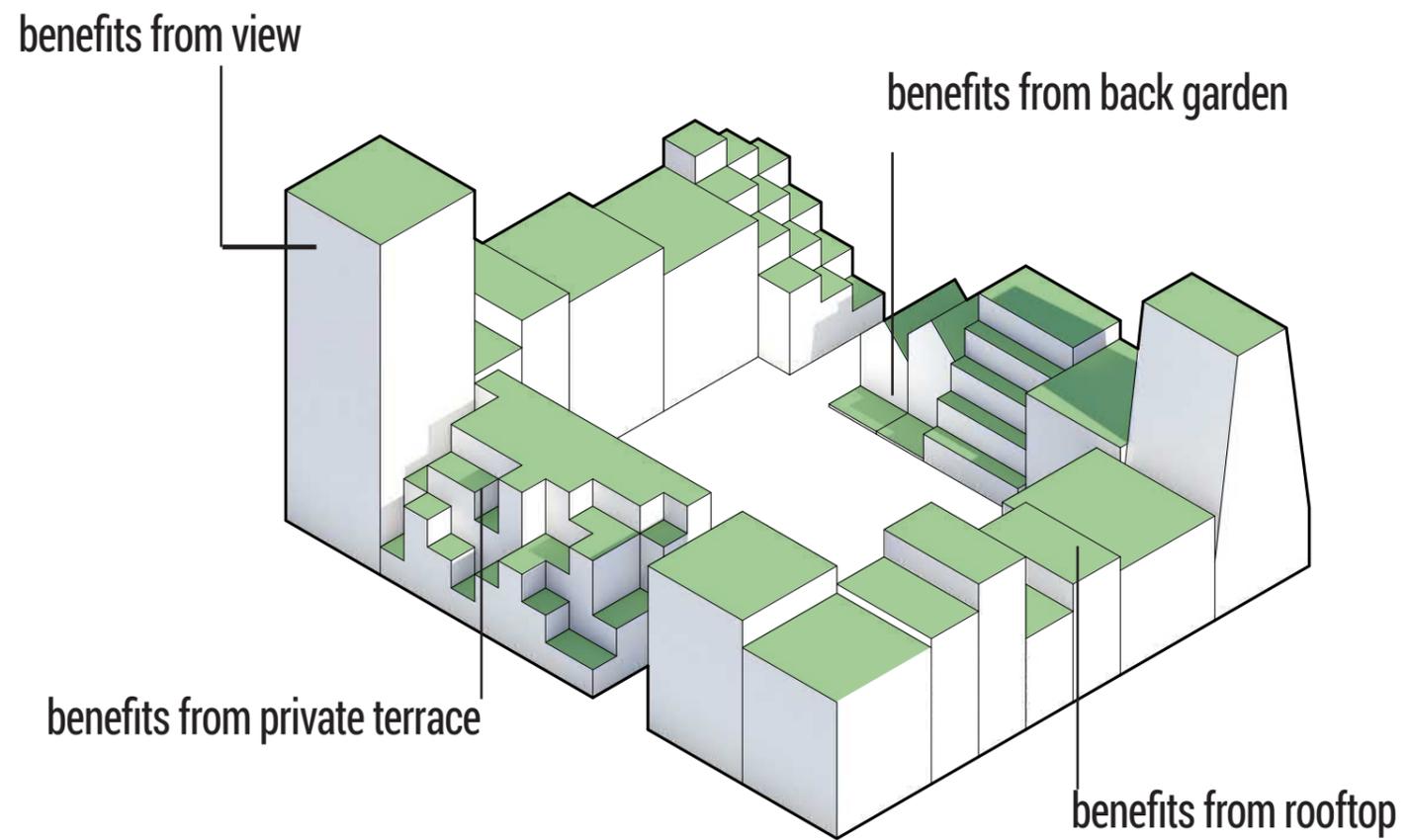
12.000 M2  
EQUAL CONDITIONS



## REDISTRIBUTED MASS

12.000 M2

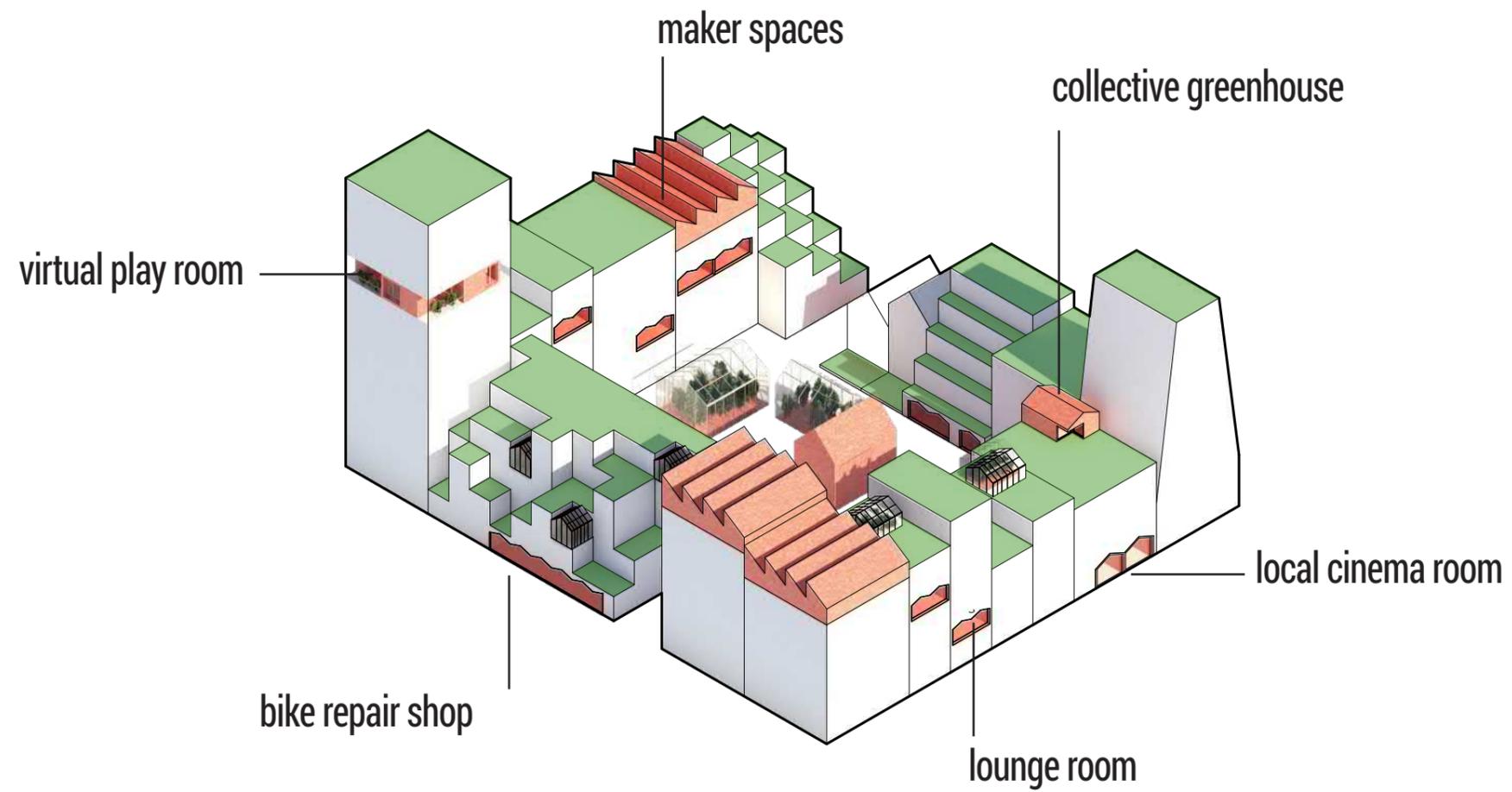
VARIETY OF EQUIVALENT QUALITIES



## **AVIAPOLIS BLOCK**

12.000 M2

VARIETY OF EQUIVALENT QUALITIES



**AVIAPOLIS BLOCK**  
12.000 M2  
VARIETY OF SOCIAL SPACES

# THE AVIAPOLIS BLOCK



# TYPOLOGIES TOOLBOX



INDIVIDUAL HOUSING



THE CUBE



STEPS HOUSING



DOMINO HOUSES



THE CASCADE



THE PIXELS



THE HAT



MIXED-USE



OFFICES



VERTICAL GARDEN



BIKE HUB



MOBILITY HUB

MANDAWORKS



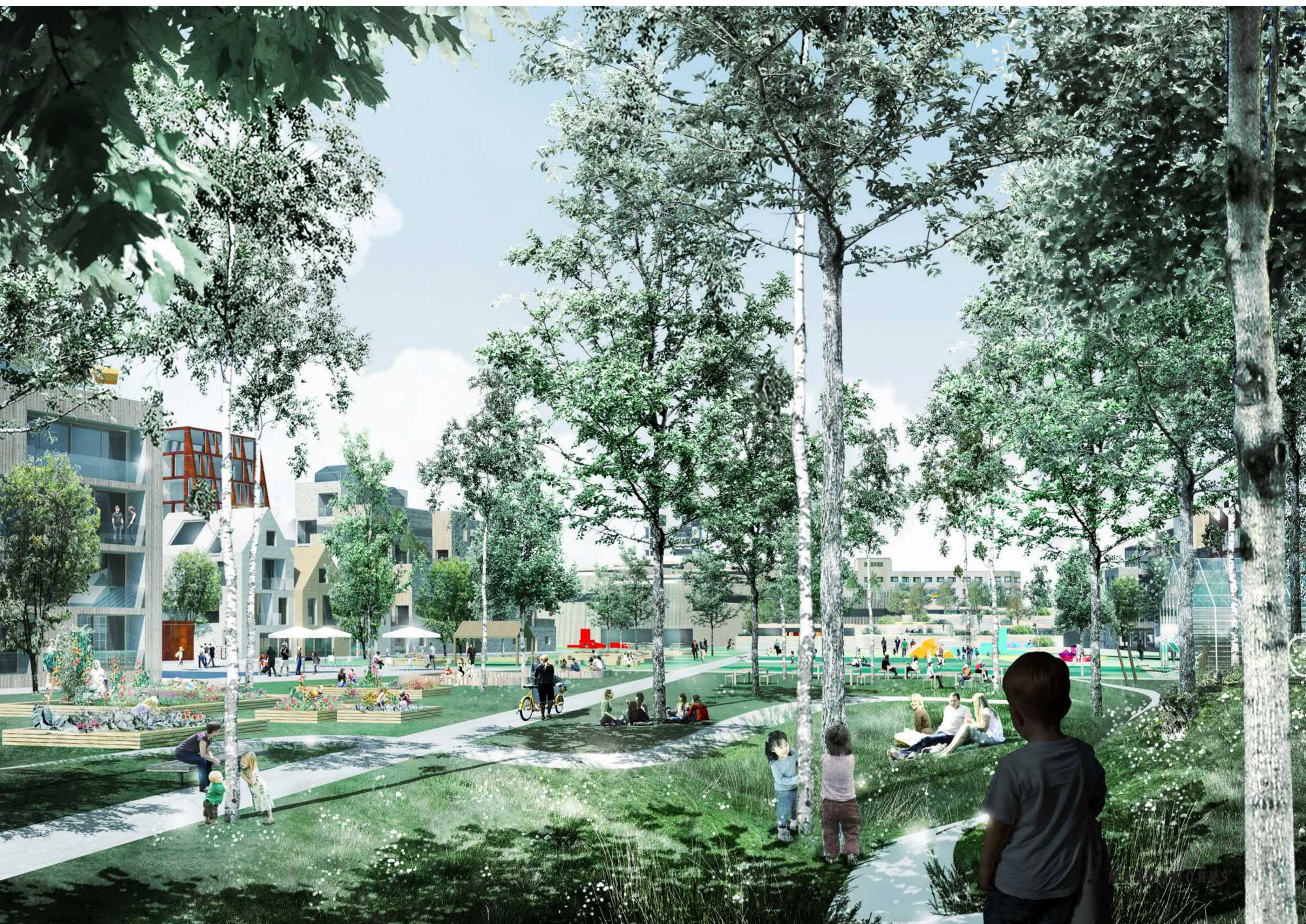
BIKY CAFE

MANDAWORKS



INFC

LANDWORKS





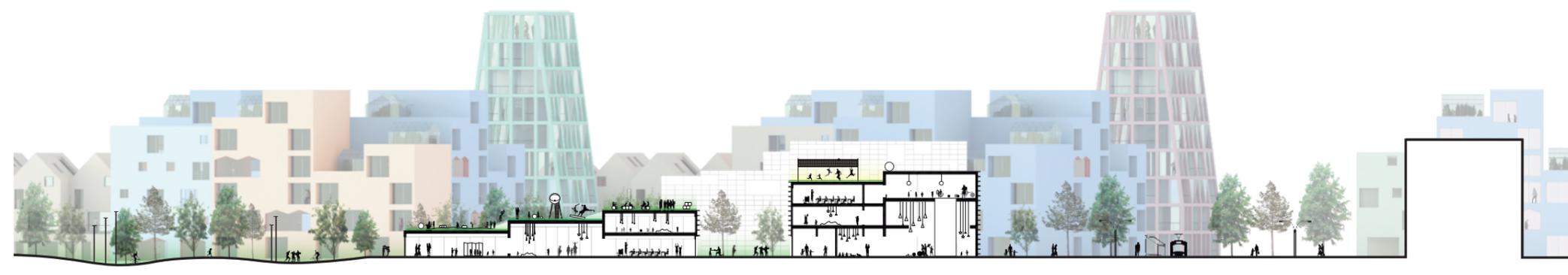
A. DETAIL PLAN OF THE URBAN BLOCKS, 1:500 



SECTION AA 1/500

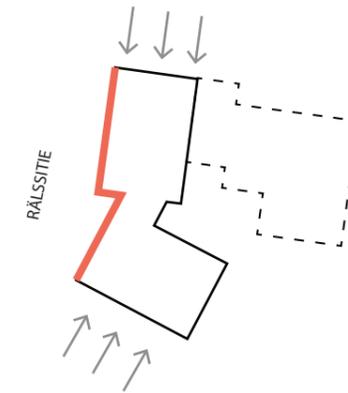


B. DETAIL PLAN OF THE URBAN BLOCKS AND ATOMI, 1:500

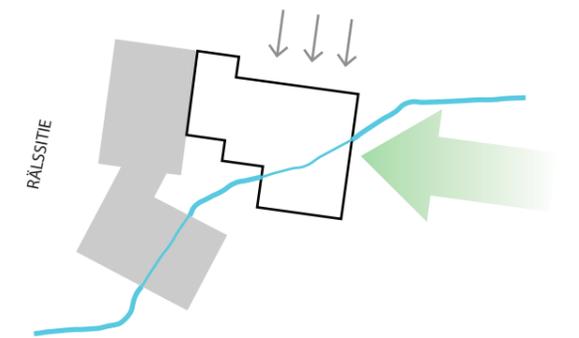


SECTION BB 1/500

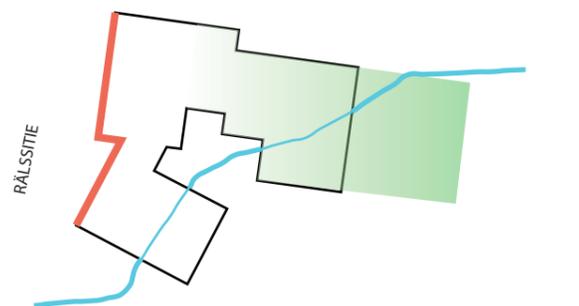
## ATOMI PHASING



1. In the first phase (6000m<sup>2</sup>), Atomi creates a front towards Rälssitie, merging in one volume the two Aviapolis structure grids



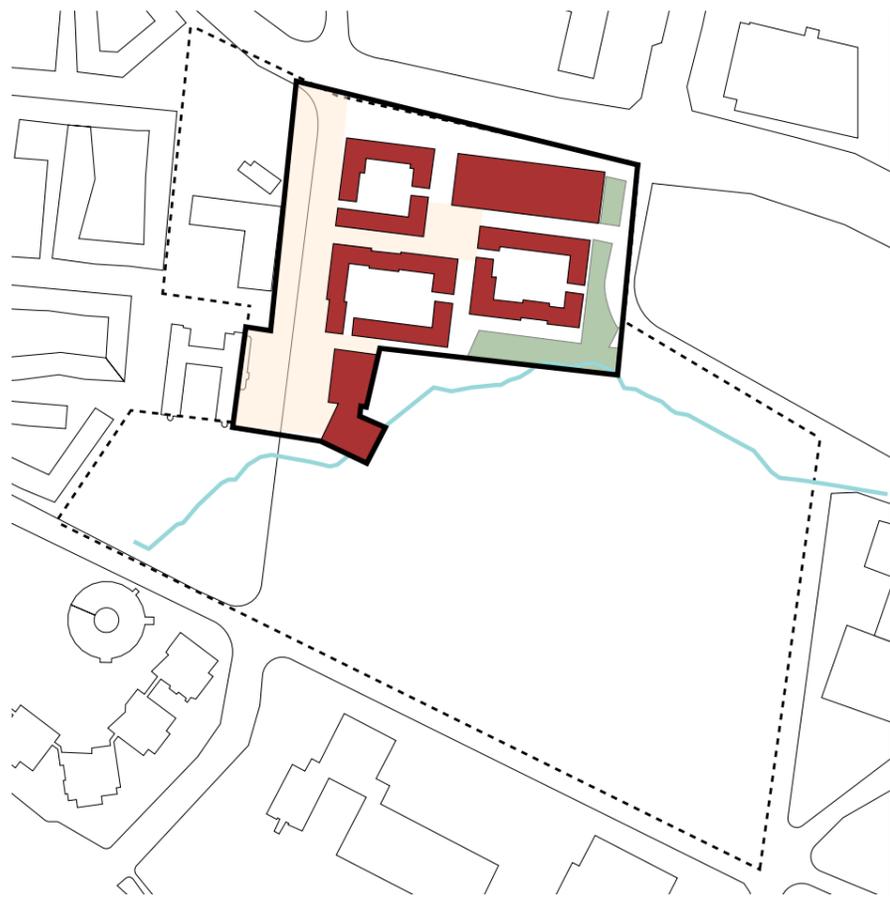
2. In the second phase (4000m<sup>2</sup>), Atomi will be extended towards the park, in order to create a connection with the green through stepping down terraces



3. Once completed, Atomi will be experienced as a social attractor of Aviapolis, both as an iconic building facing the main road, and as a landscape-integrated building facing the park



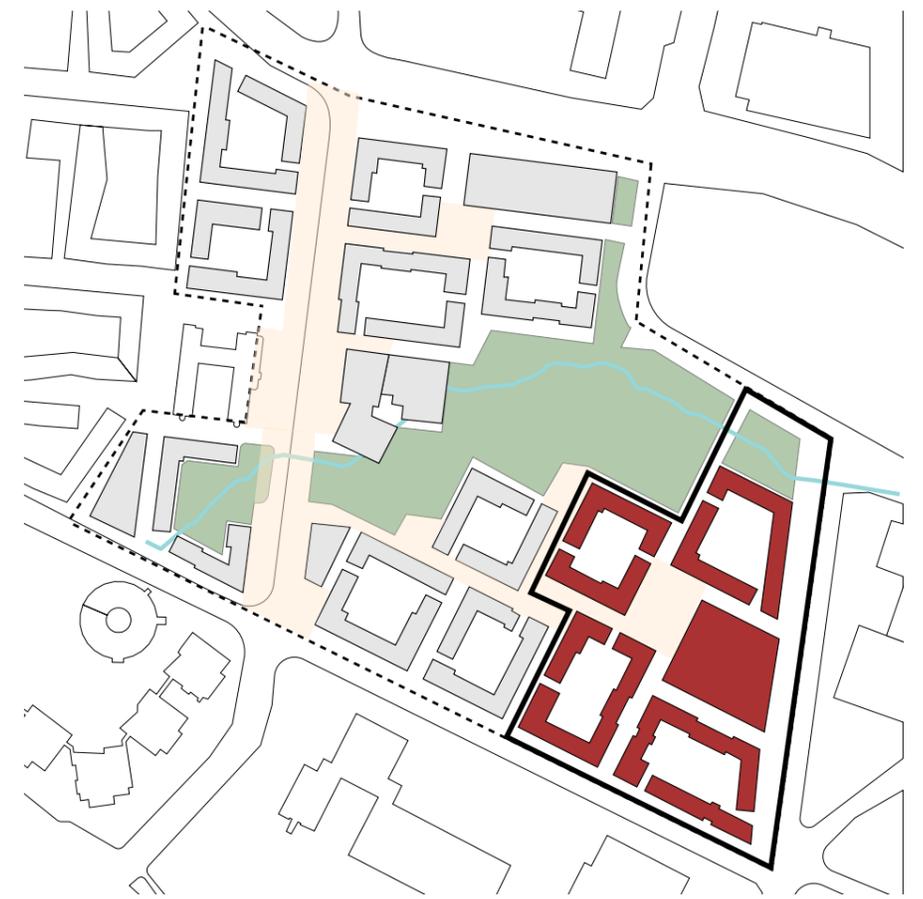
## MANDAWORKS



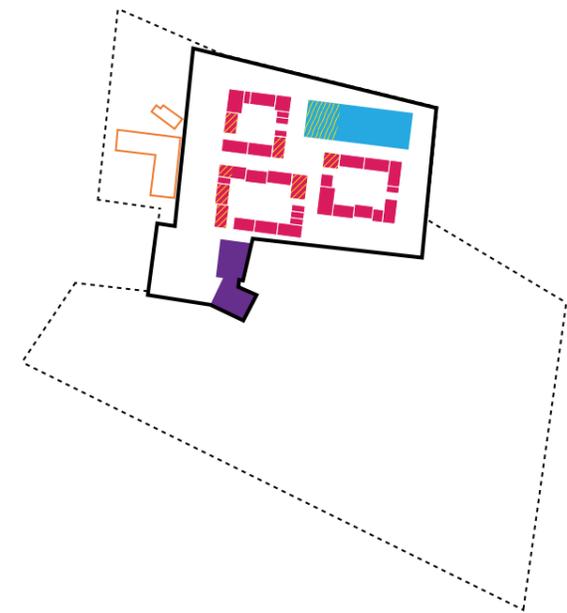
**PHASE 1 2020**



**PHASE 2 2026**

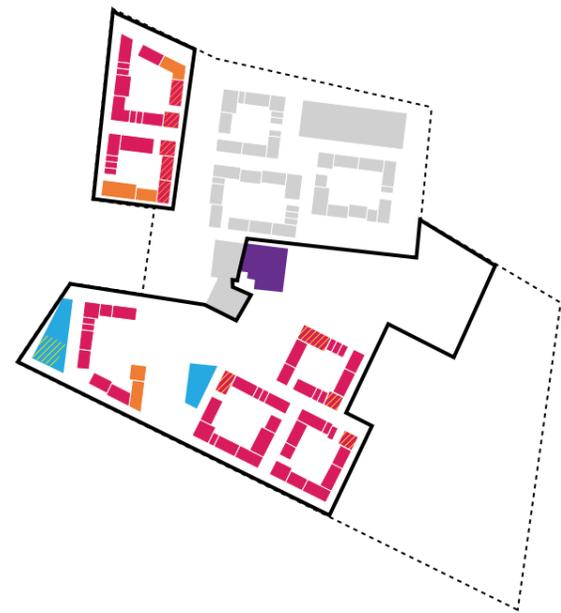


**PHASE 3 2030**



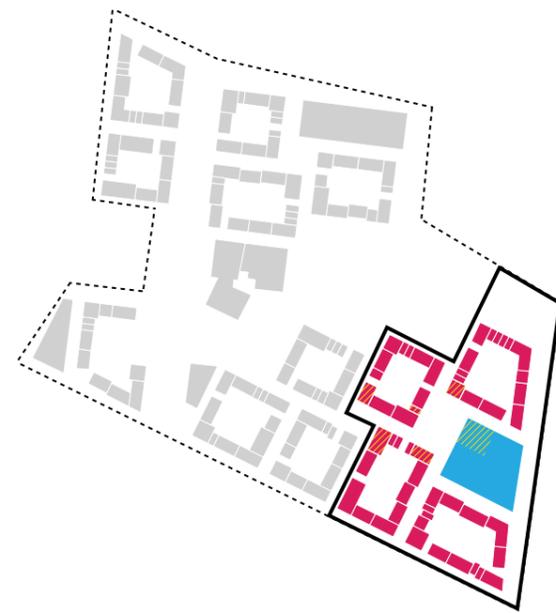
**PROGRAM PHASE 1 2020**

■ housing   
 ■ culture/ education   
 ■ mobility hub  
■ existing office   
 ▨ services



**PROGRAM PHASE 2 2026**

■ housing   
 ■ culture/ education   
 ■ mobility hub  
■ office   
 ▨ services



**PROGRAM PHASE 3 2030**

■ housing   
 ■ mobility hub  
▨ services

**PHASE 1**

HOUSING: 35.000 M2  
 10.500 m2 of 25m2 APT (30%)  
 10.500 m2 of 80m2 APT (30%)  
 7.000 m2 of 45m2 APT (20%)  
 3.500 m2 of VARIOUS M2 APT (10%)  
 3.500 m2 of COLLECTIVE SPACES (10%)  
 OFFICES (EXISTING): 5.600 M2  
 OFFICES: 16.000 M2  
 CULTURE/EDUCATION: 6.000 M2  
 MOBILITY HUB: 15.000 M2  
 SERVICES: 7.000 M2  
  
 TOTAL: 79.000M2

**PHASE 2**

HOUSING: 70.000 M2  
 21.000 m2 of 25m2 APT (30%)  
 21.000 m2 of 80m2 APT (30%)  
 14.000 m2 of 45m2 APT (20%)  
 7.000 m2 of VARIOUS M2 APT (10%)  
 7.000 m2 COLLECTIVE SPACES (10%)  
 OFFICES: 14.000 M2  
 CULTURE/EDUCATION: 5.000 M2  
 MOBILITY HUB: 4.200 M2  
 SERVICES: 14.000 M2  
  
 TOTAL: 107.200 M2

**PHASE 3**

HOUSING: 45.000 M2  
 13.500 m2 of 25m2 apt (30%)  
 13.500 m2 of 80m2 apt (30%)  
 9.000 m2 of 45m2 apt (20%)  
 4.500 m2 of various m2 apt (10%)  
 4.500 m2 of collective spaces(10%)  
 OFFICES: 0 M2  
 CULTURE/EDUCATION: 0 M2  
 MOBILITY HUB: 20.000 M2  
 SERVICES: 9.000 M2  
  
 TOTAL: 74.000 M2

**TOTAL**

HOUSING: 150.000 M2  
 45.000 m2 of 25m2 apt (30%)  
 45.000 m2 of 80m2 apt (30%)  
 30.000 m2 of 45m2 apt (20%)  
 15.000 m2 of other sizes m2 apt (10%)  
 15.000 m2 collective spaces (10%)  
 OFFICES: 30.000 M2  
 CULTURAL/EDUCATION: 11.000 M2  
 MOBILITY HUB: 39.200 M2  
 SERVICES: 30.000 M2  
  
 OVERALL TOTAL: 240.200 M2



### HOUSING TYPOLOGIES

- individual houses
- domino houses
- hat houses
- the cube
- cascade houses
- mixed use houses
- steps houses
- pixel houses
- vertical garden houses



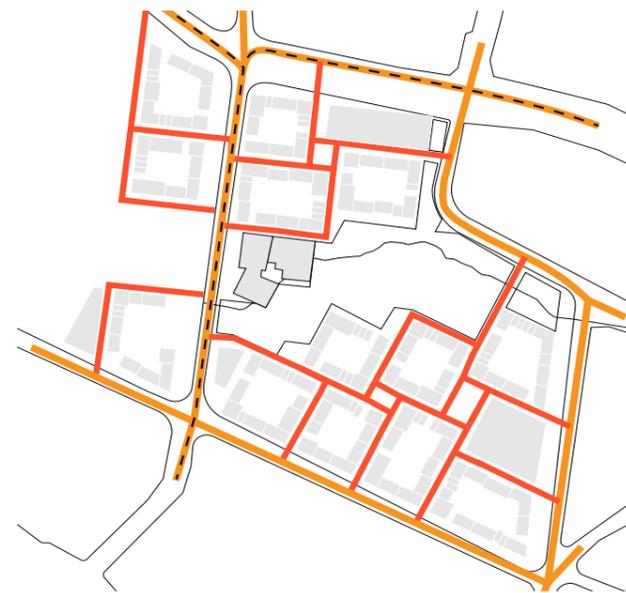
### BLUE GREEN

- public green
- semi-private green
- private green
- existing water
- stormwater collection



### PARKING

- mobility hub
- block bike parking
- 500 bike parking
- 1500 car parking
- 4900 bike parking



### TRAFFIC

- bike / pedestrian street with car access
- car street with tram
- car street



### PUBLIC / COLLECTIVE SPACES

- recycling area
- educational playground
- mobility centre
- green activities
- workshop area
- shared mobility
- green community
- educational area











