

Goal of this project

1 To design a sustainable mix for M4H.

2 To propose values and spatial principles of Sustainable Mix through the design.

Introduction

- 1. Context: M4H
- 2. Design goals

Process

- 1. Experiment with eastern philosophy
- 2. Developing process

Design

- 1. Materplan
- 2. Three special measurements
- 3. Zoom-in: daily life environment

Conclusion

- 1. Values and principles of a sustainable mix
- 2. Future research suggestion

Location



Location

Merwe-Vierhaven (M4H), land area is 165Ha



Internal road

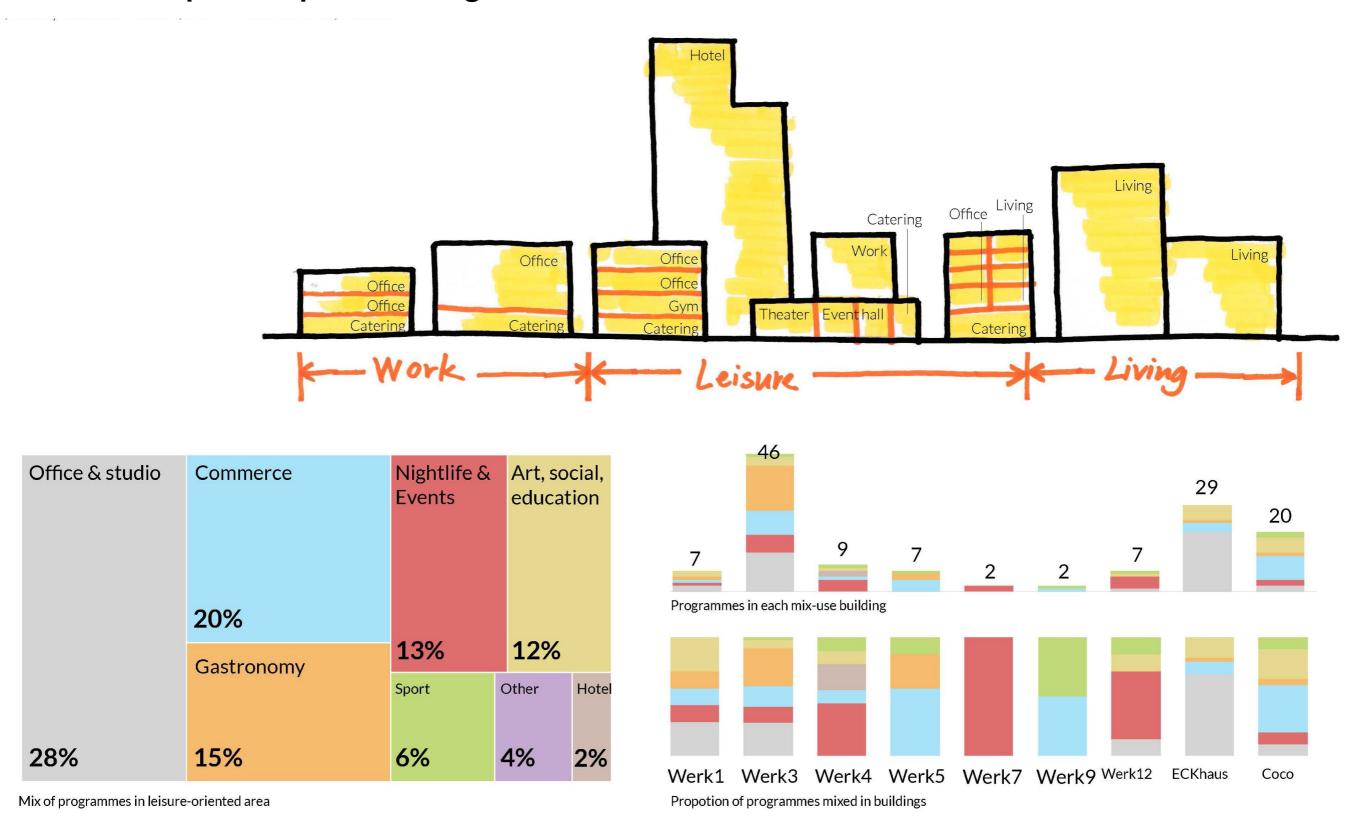


Municipality's vision for M4H: Trendy Mix



Trendy Mix

Often with this specific spatial arrangement.





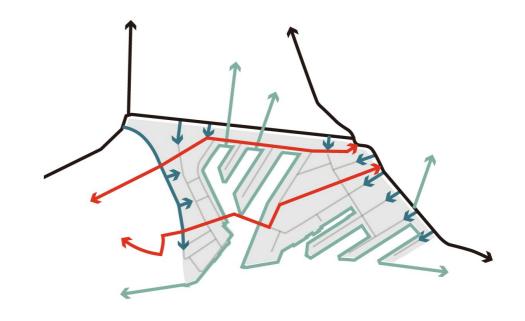
Goals of Sustainable Mix



1 Inclusive living accommodate different groups of people

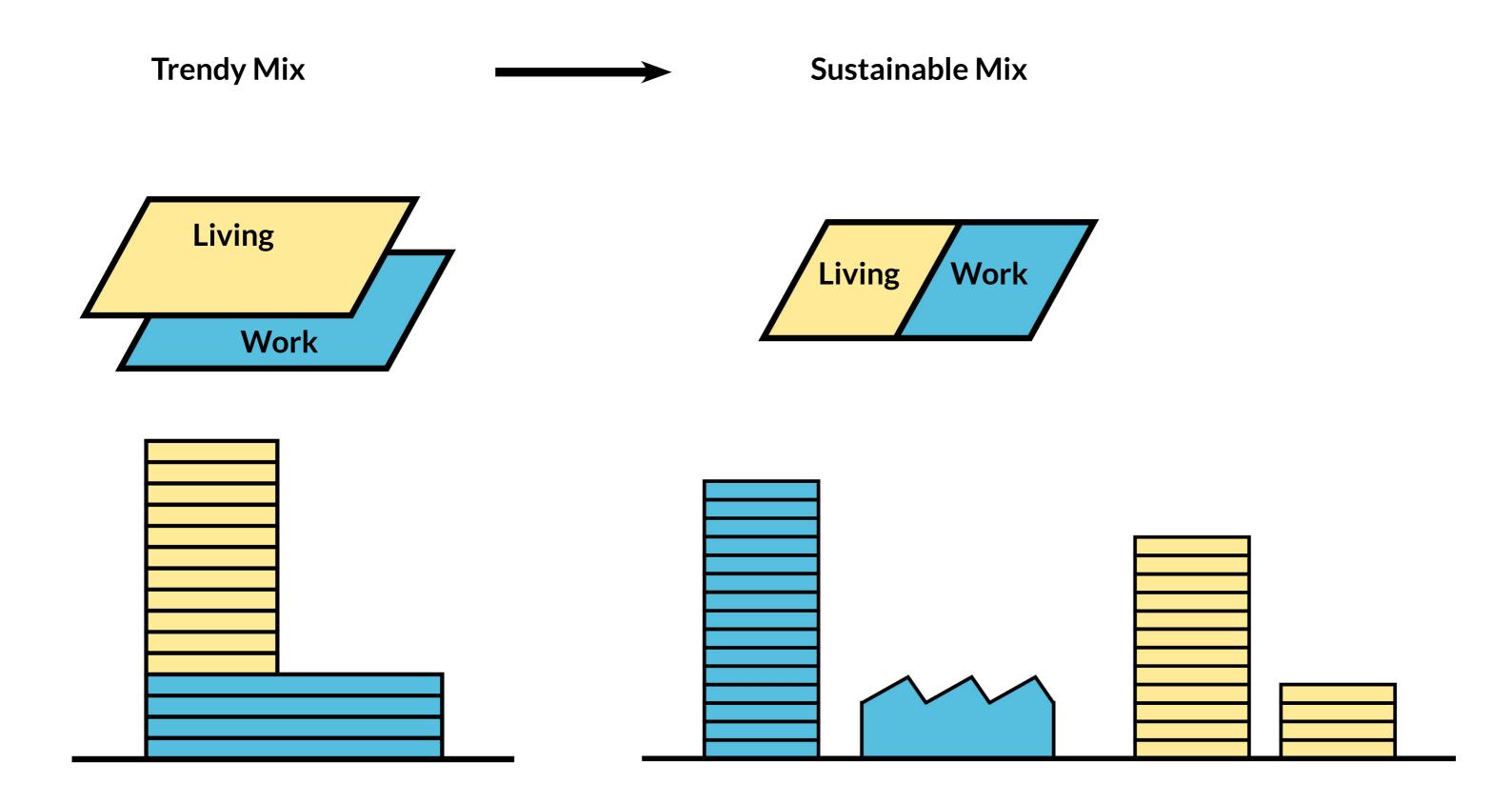


2 Diverse work the pillar - manufacture & growth poles - makerspace



- 3 Enhance connectivity
- among communities, &
- between two cities

Sustainable Mix Scheme

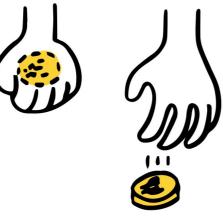


PROCESS

- 1. Experiment with eastern philosophy
- 2. Developing process

Concept

Mindset of possessing



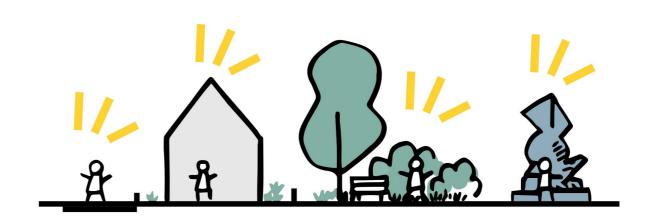






Mindset of appreciating

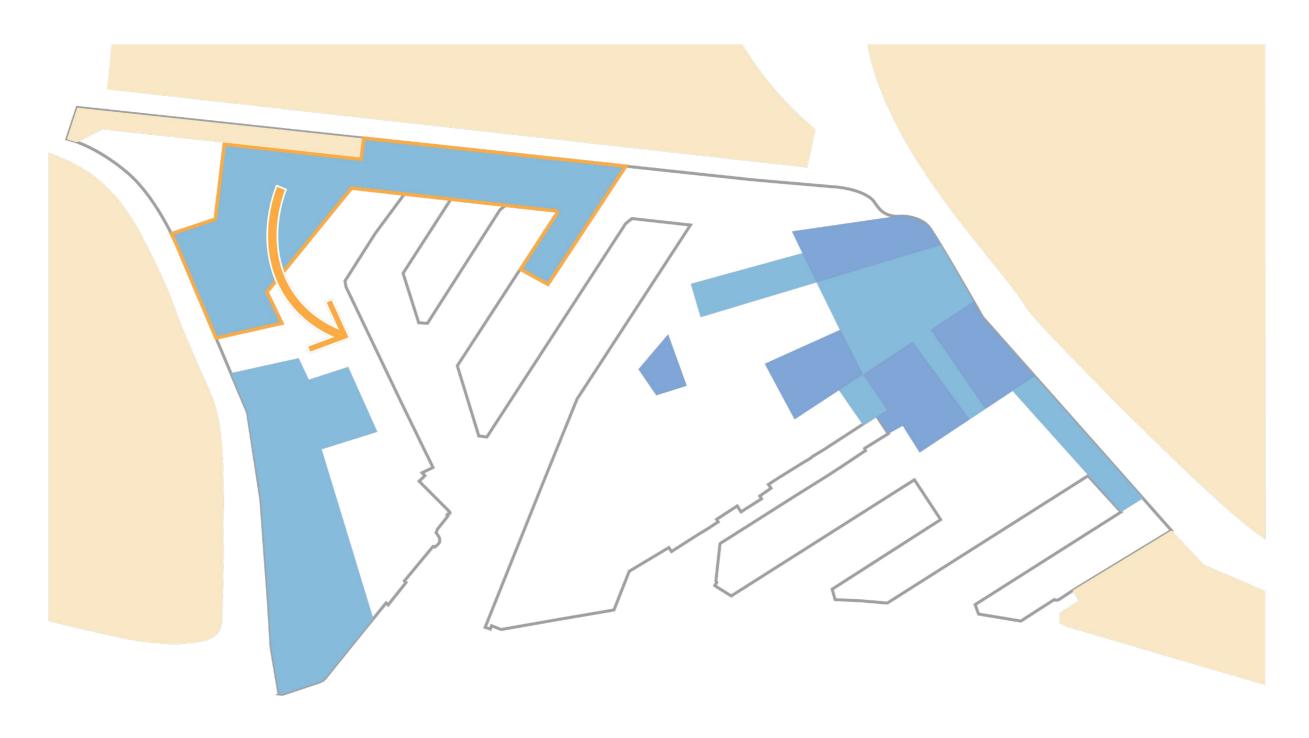




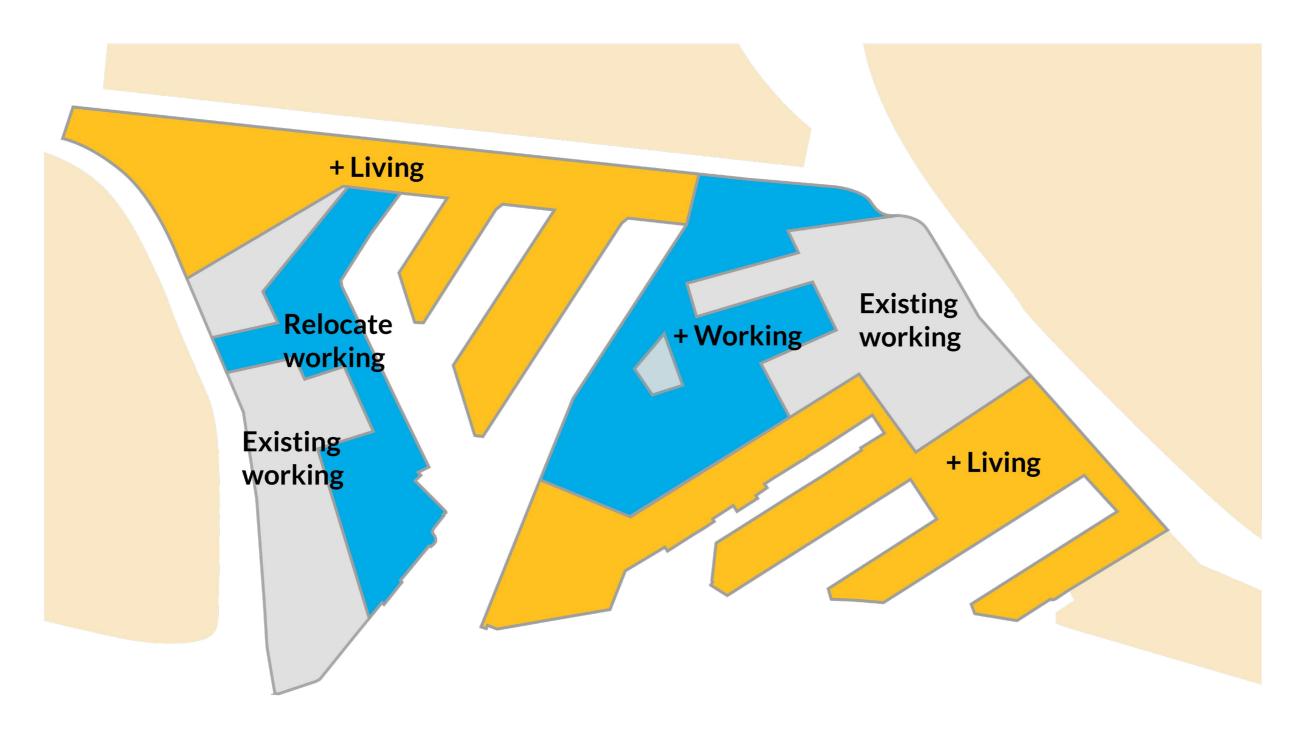


Development process - step 1

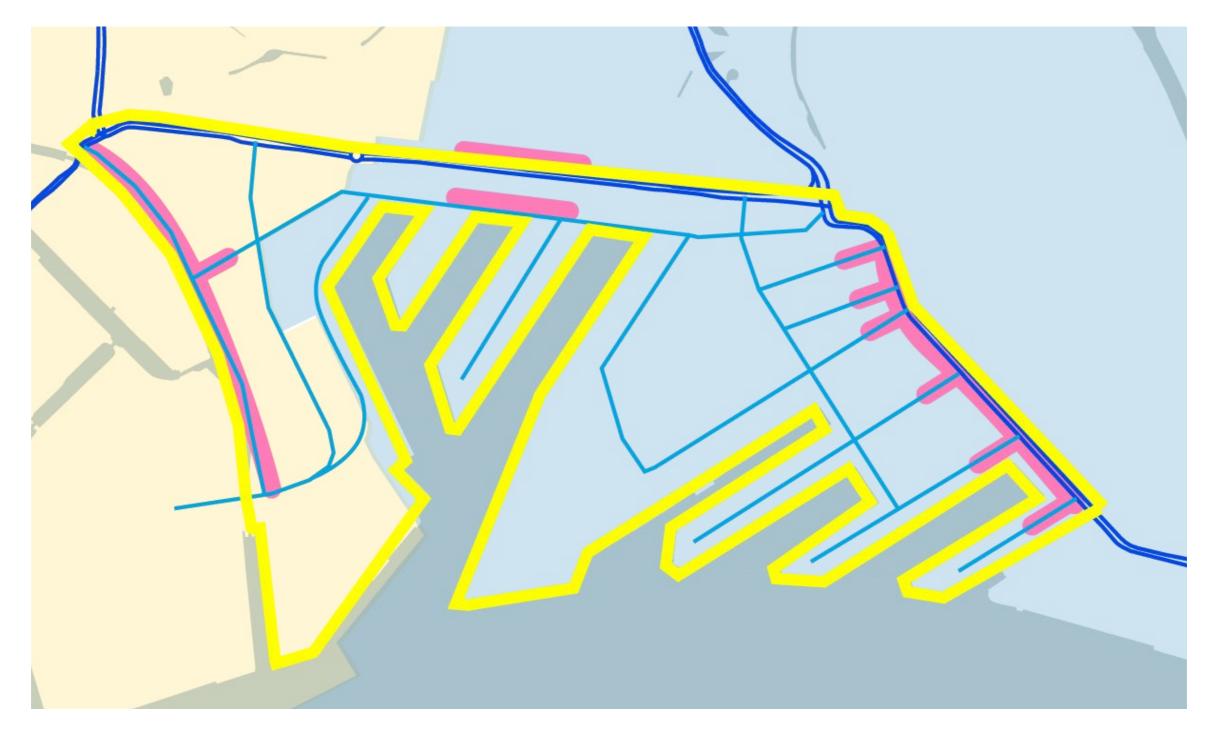




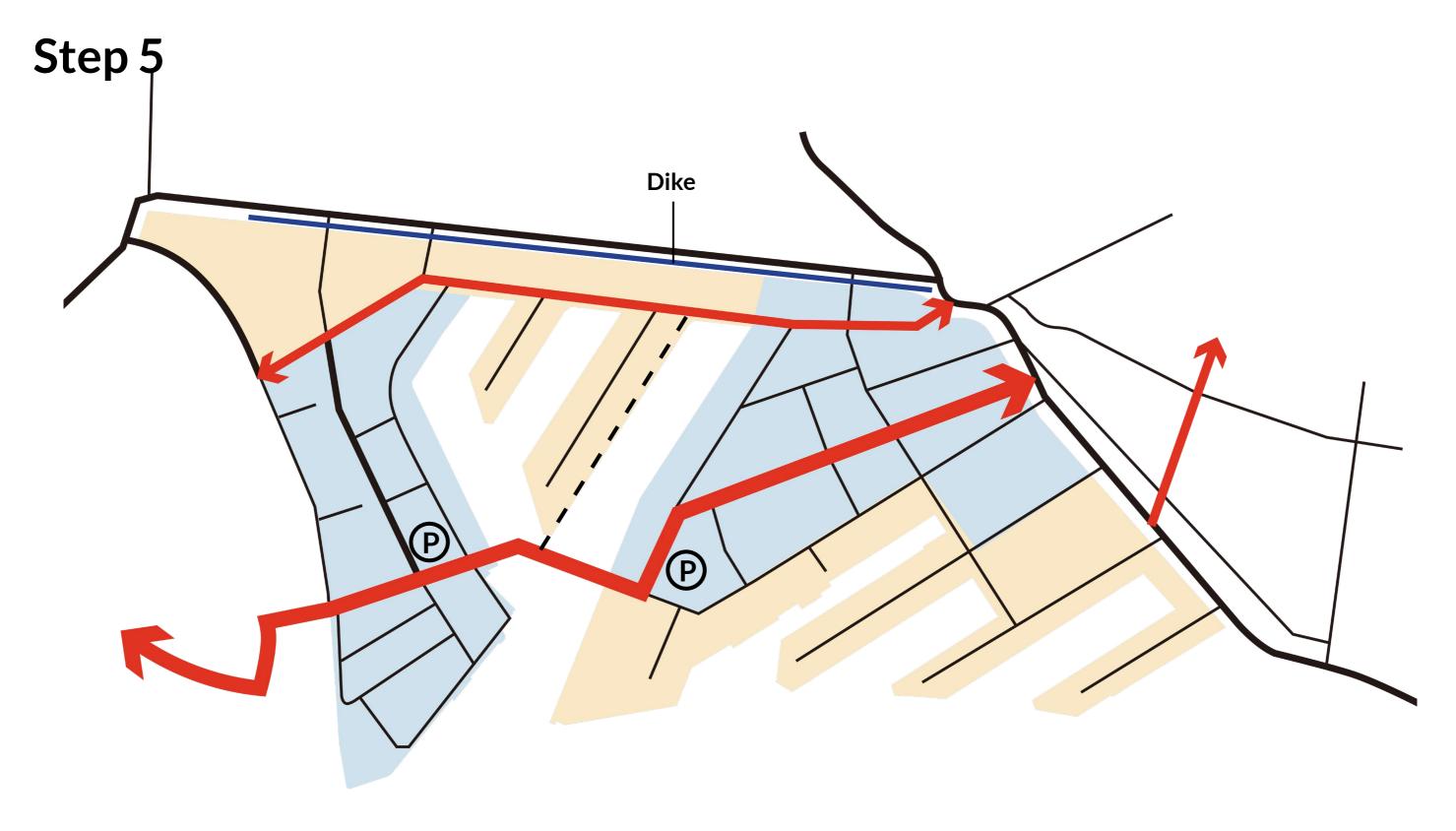
Remove port, and relocating manufacture to the left island



Add living and working parcels to empty land

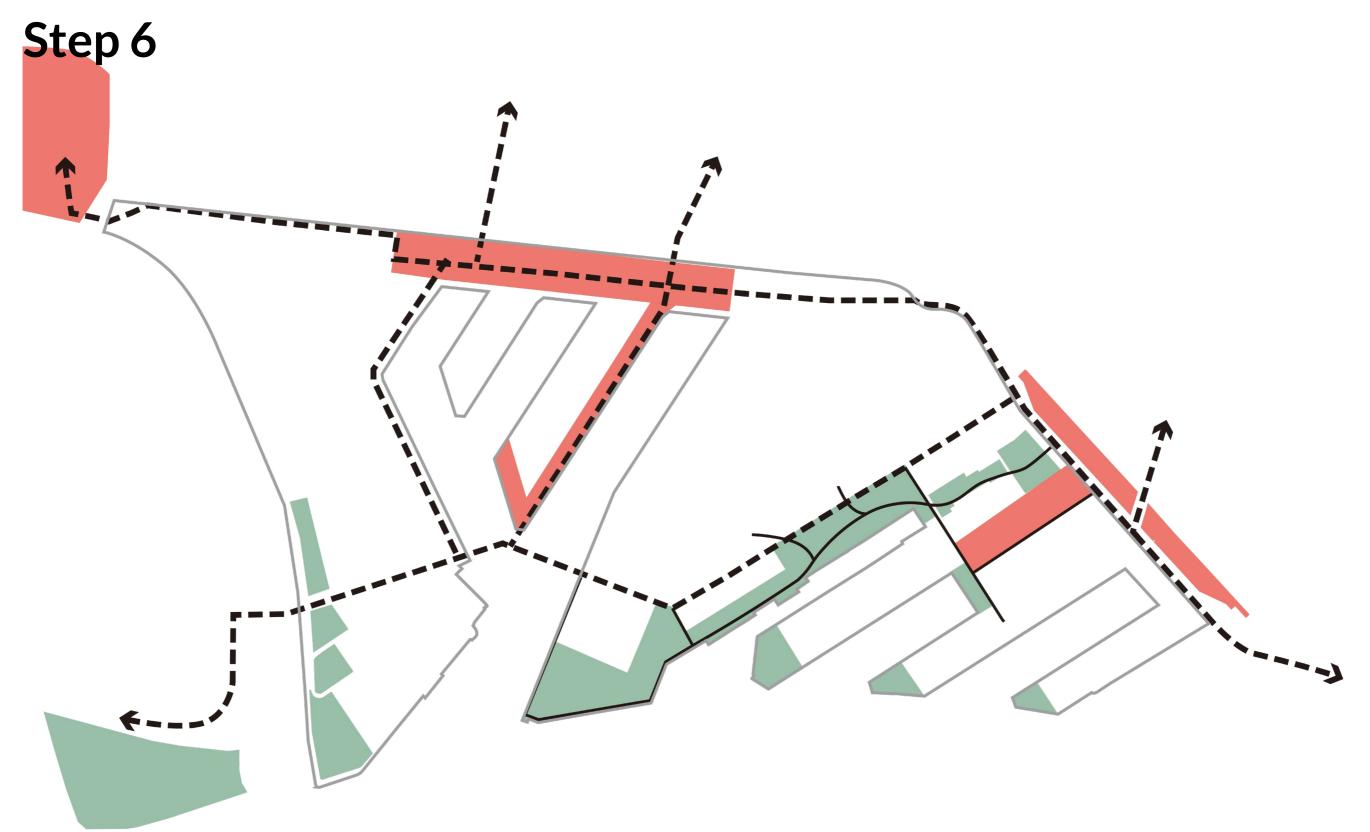


Multiple entrances, no roads crossing the site, nor roads linking left and right island.

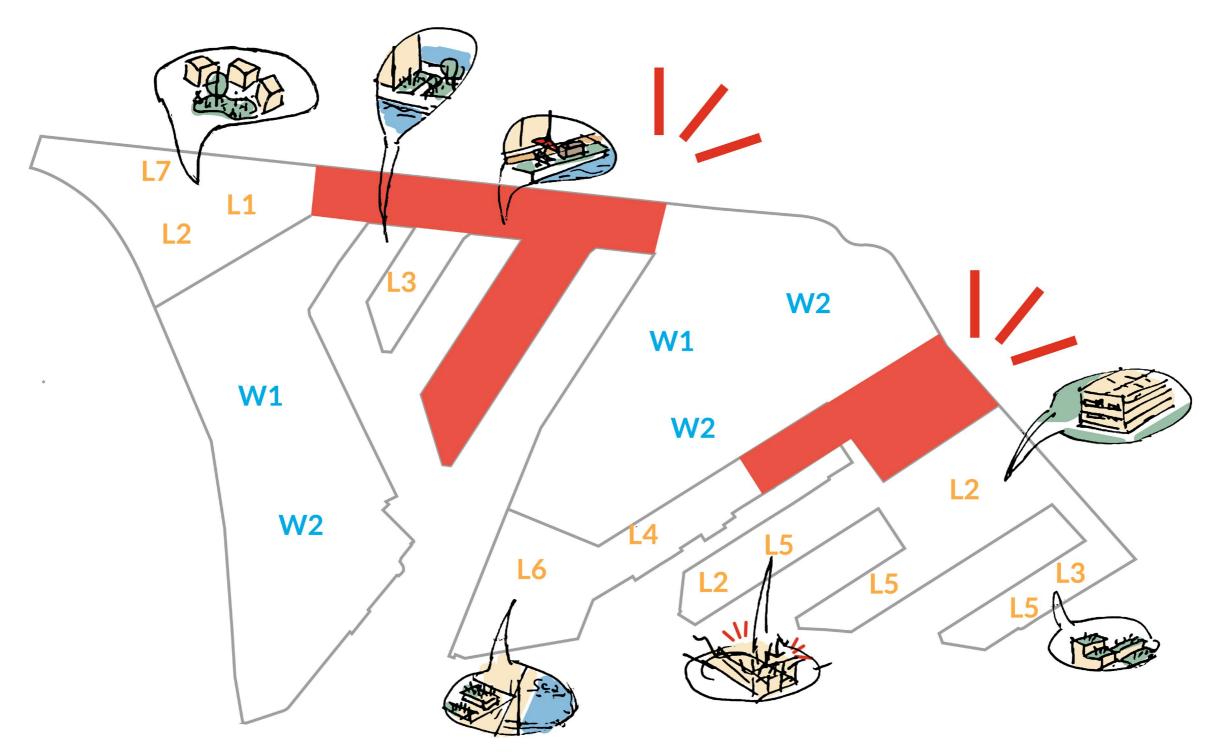


Add roads linking left and right island, and connecting R'dam & Schiedam.





Design a public space network to offer people good quality of stay.

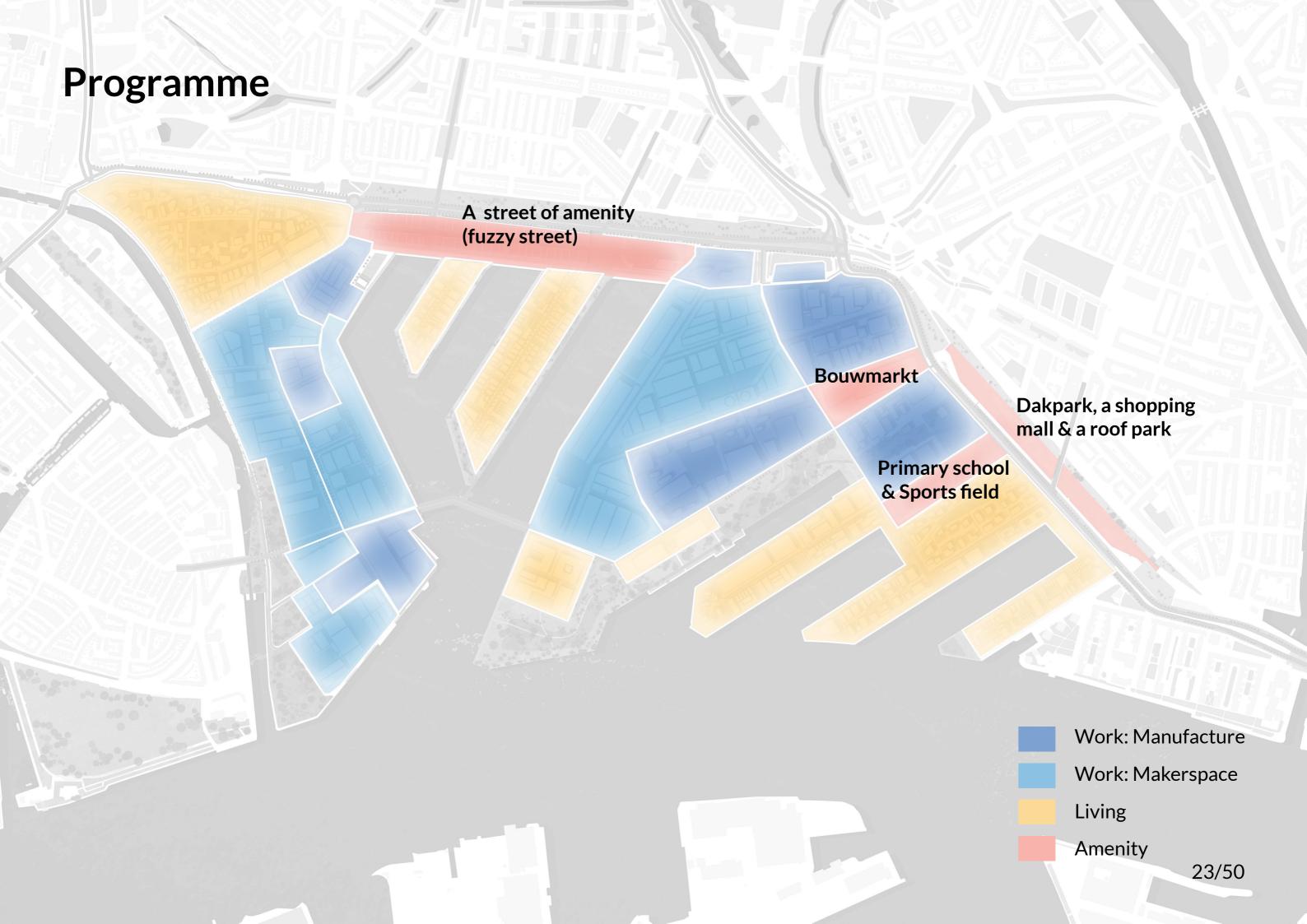


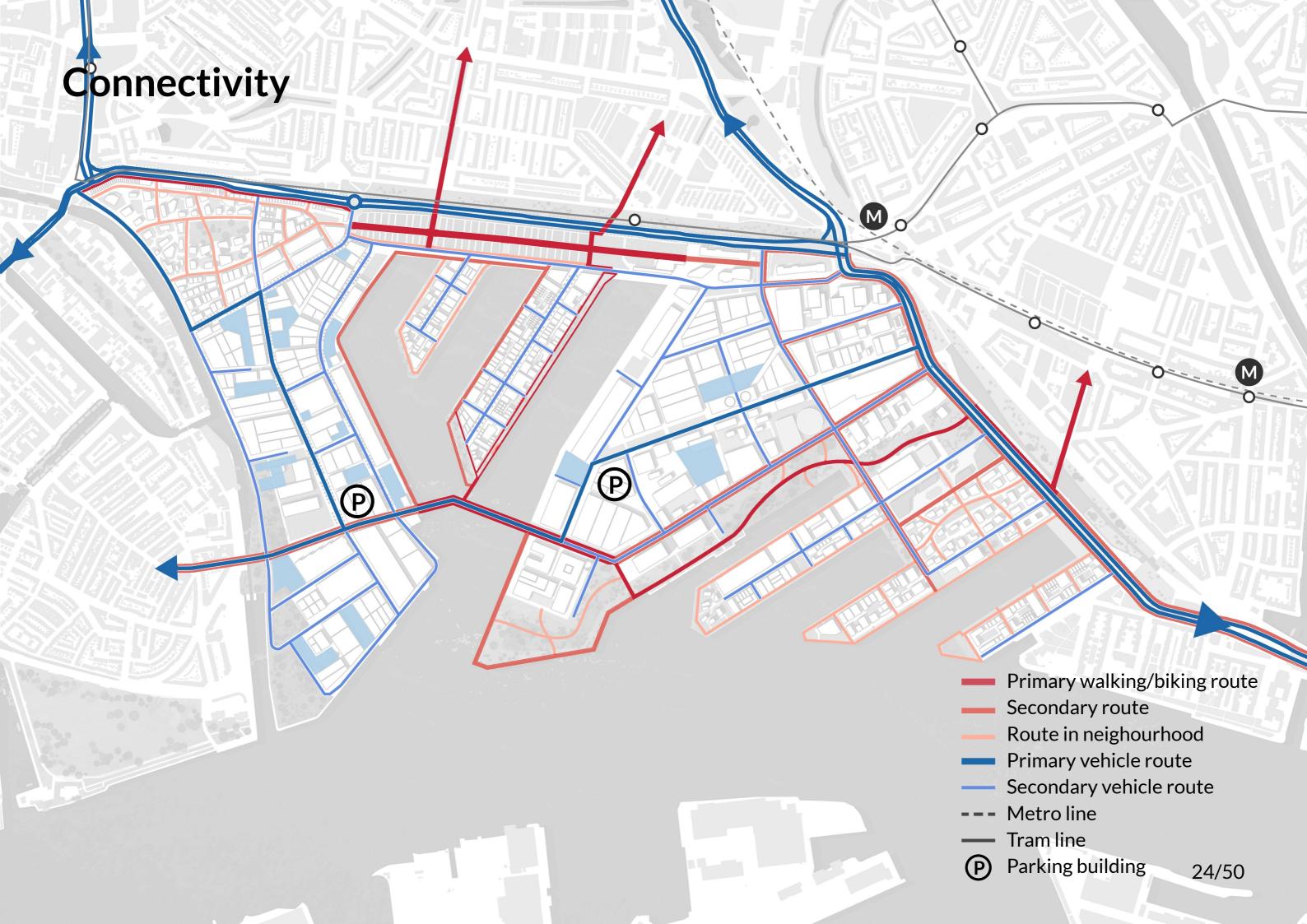
Cut large plot into small blocks with distinct characters.

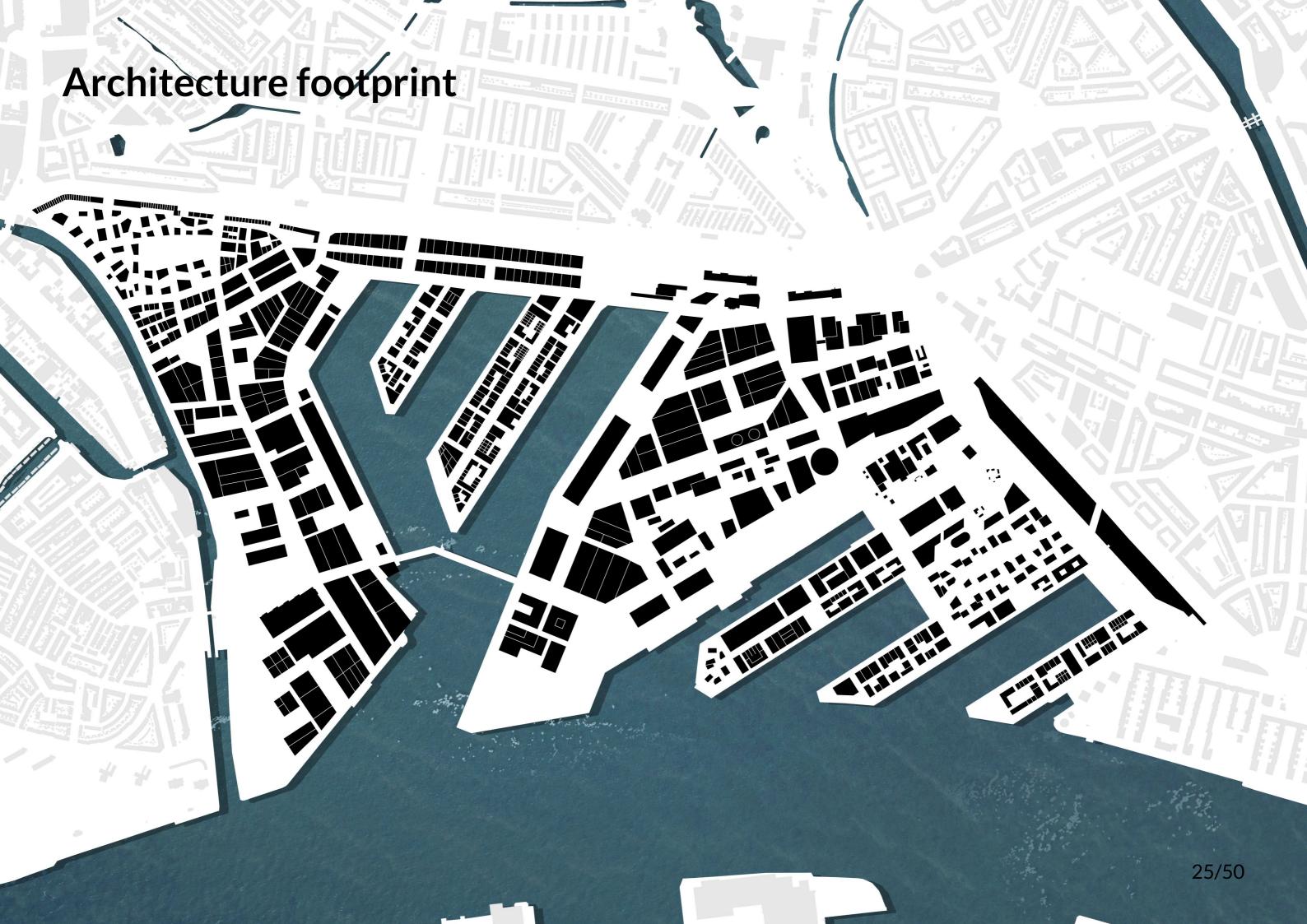
THE DESIGN

- 1. Materplan
- 2. Special measurements
- 3. Zoom-in: daily life environment



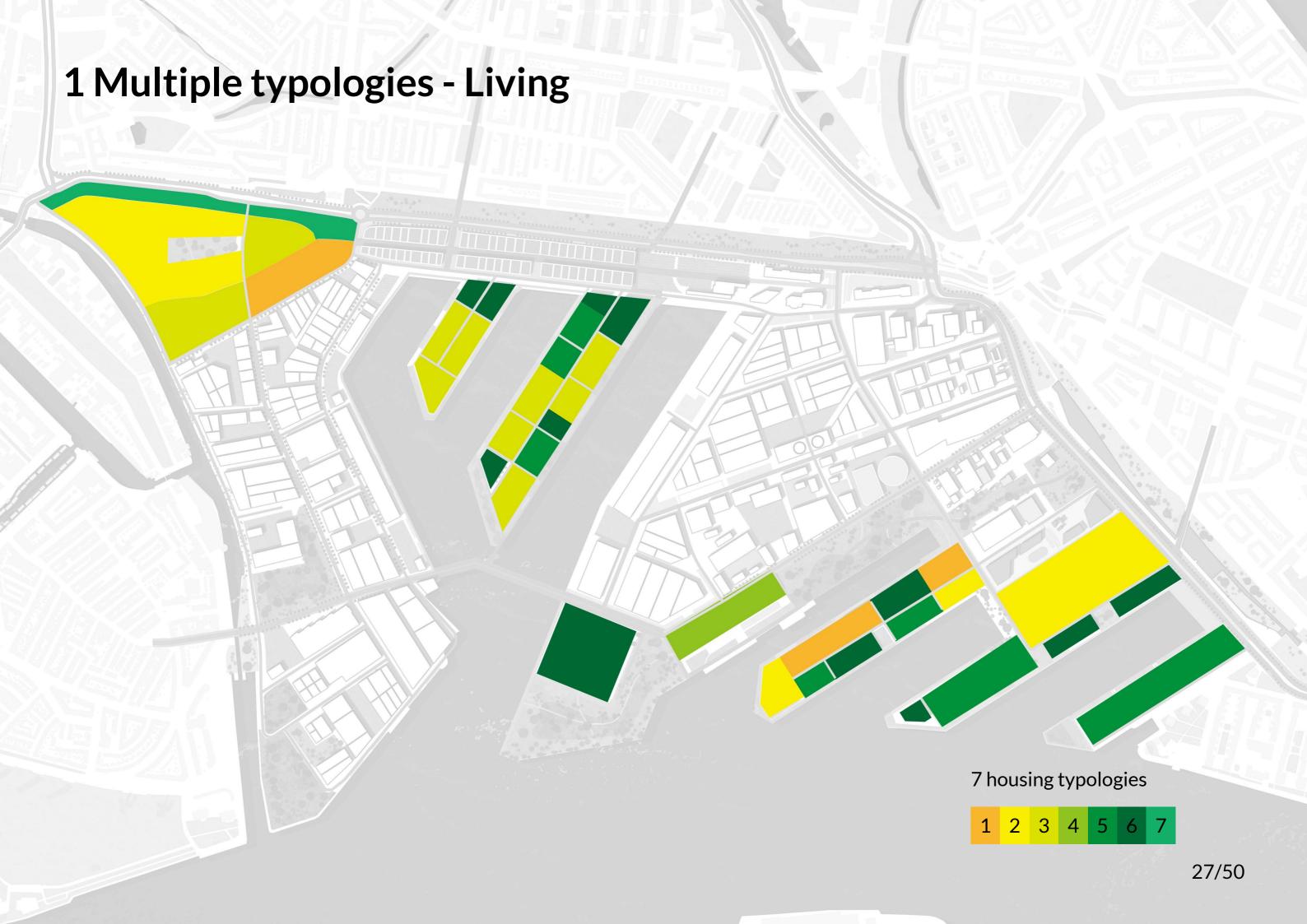






Special measurements:

- 1) Multiple typologies
- 2) Public space network
- 3) Landscape

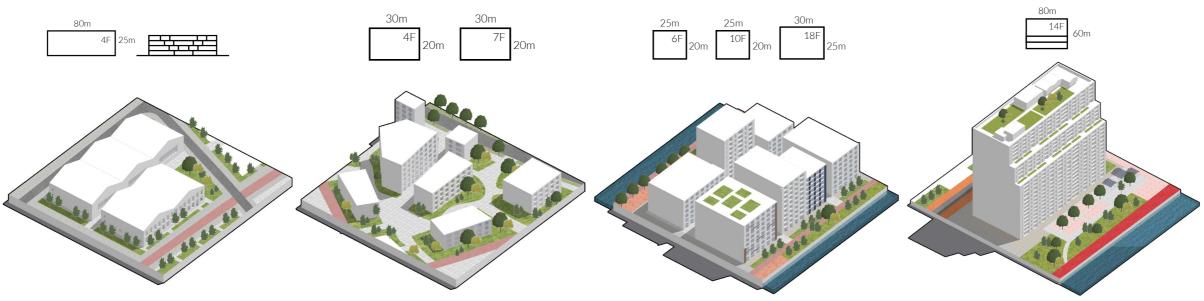


1 From factory to housing

2 Naturally scattered housing

3 Modern block

4 Tower











Housing for young adult/ students, & housing for temporal stay

70% market housing, 30% social housing

Family housing, for new couples around 30, and middle-aged partners moving back from suburban

Market apartments with various sizes

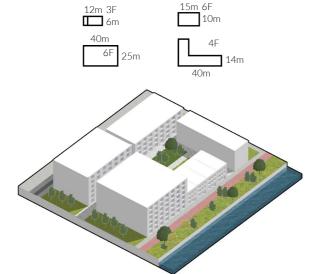
150 persons per Ha

310 persons per Ha

600 persons per Ha

500 persons per Ha

5 Blender

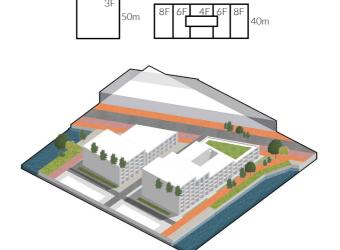




Family home; detached house; and housing for singles, young couples. 30% social housing.

350 persons per Ha

6 Cohousing

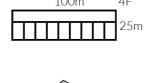


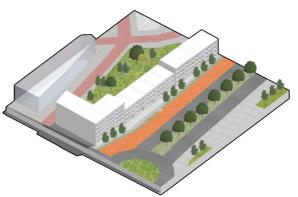


Family home, housing for singles, and houses for young couples. 40% of social housing

100 to 500 persons per Ha

7 Row housing

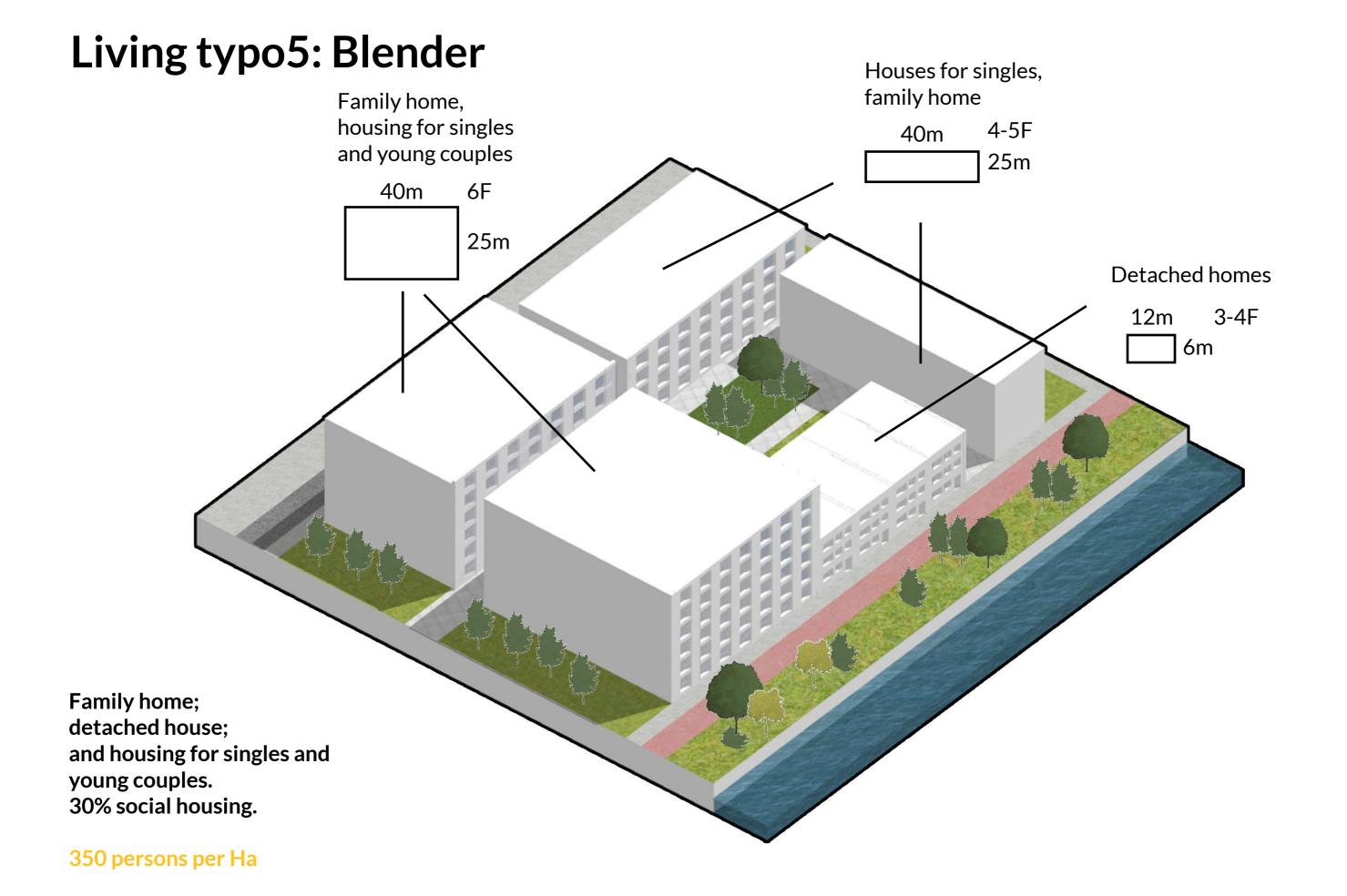






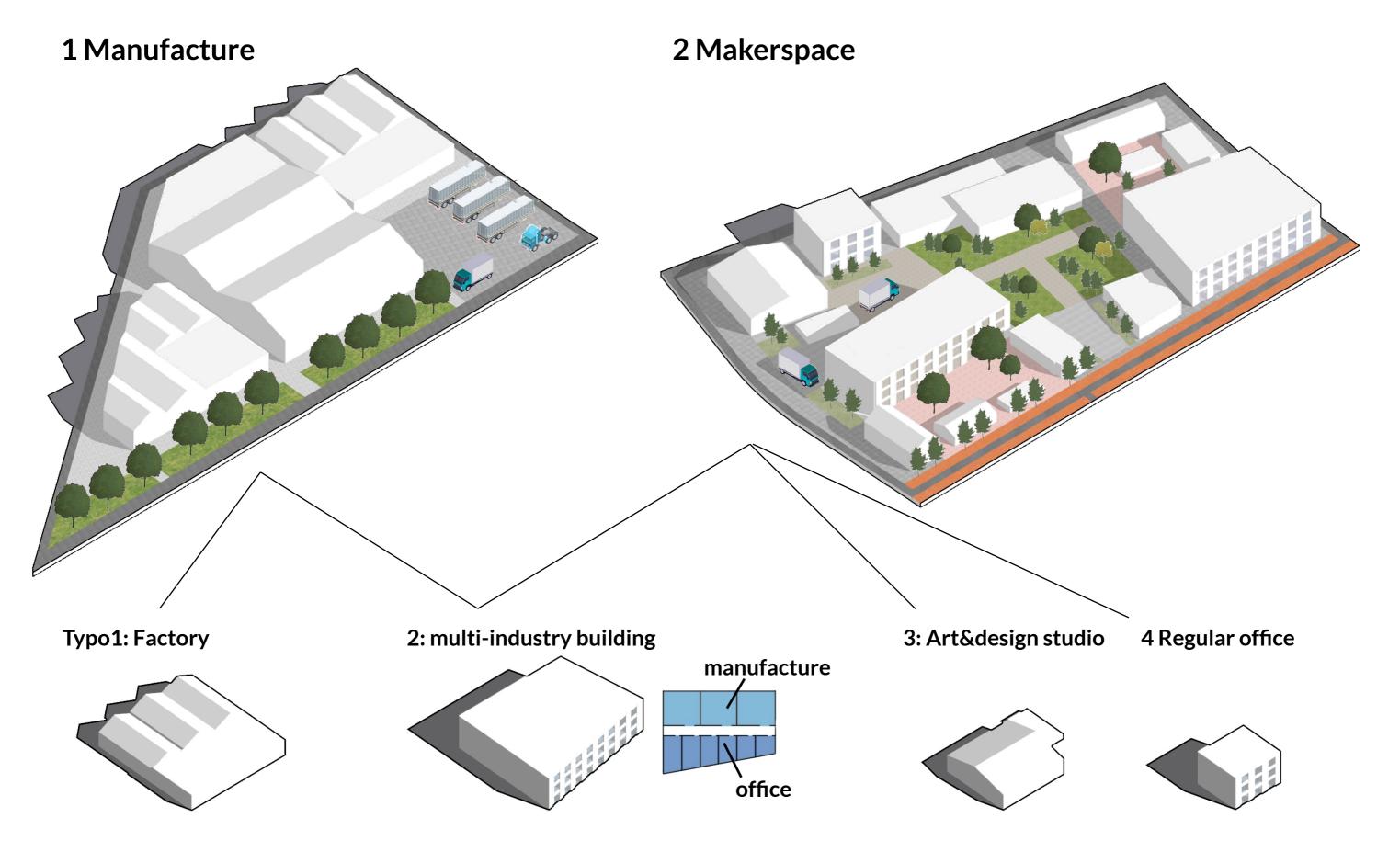
Regular apartment; 50% market housing 50% social housing

250 persons per Ha

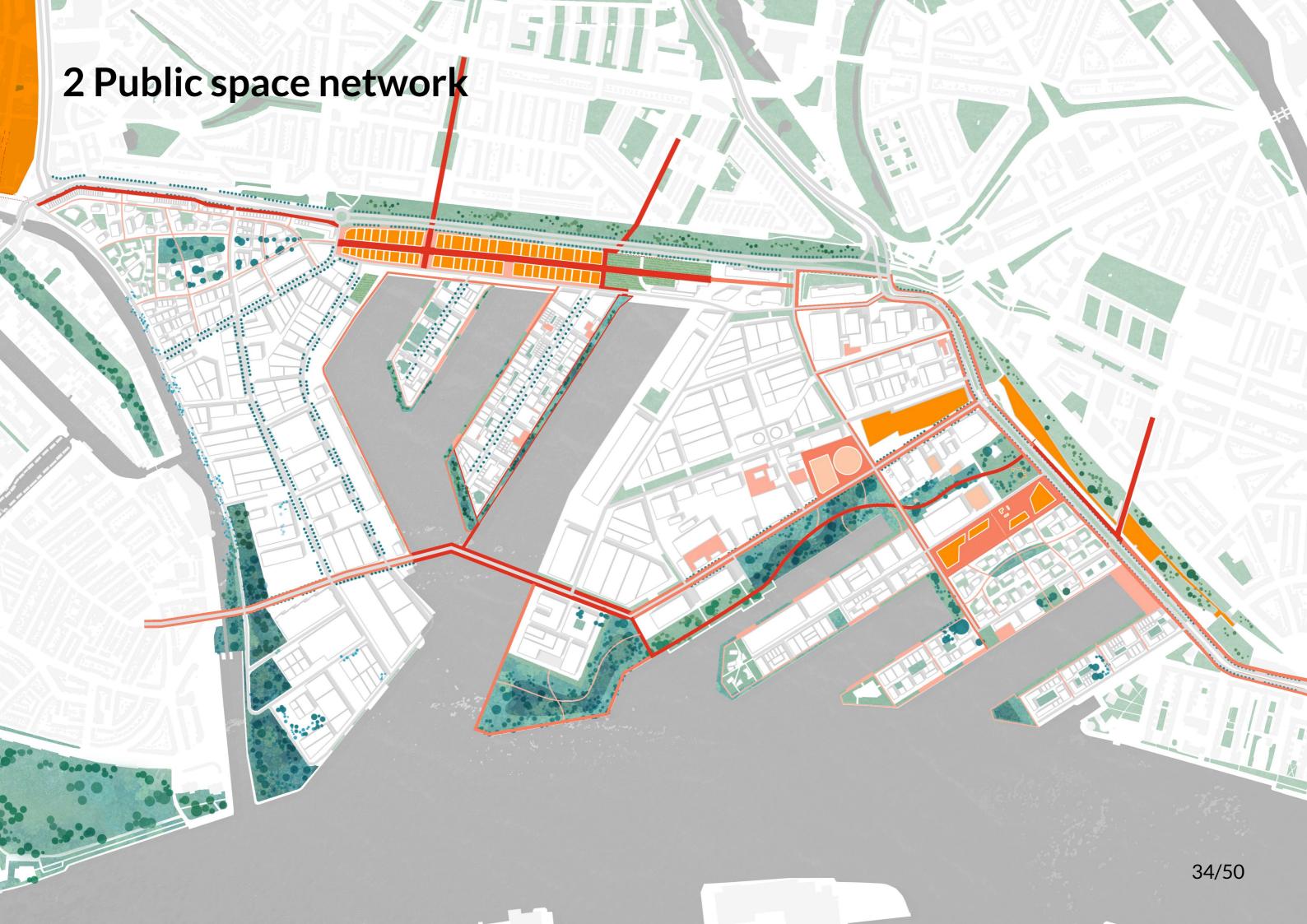




Work

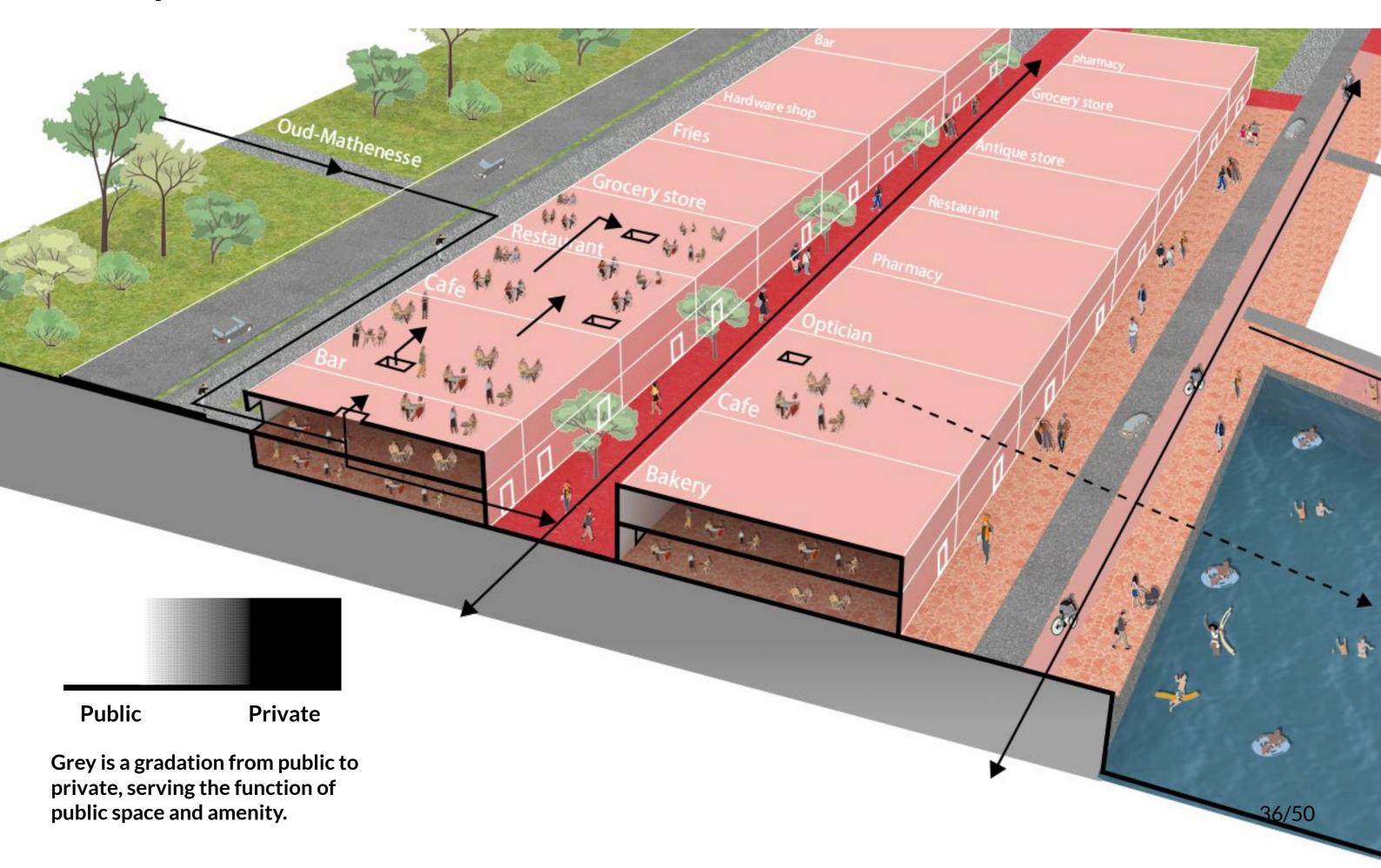


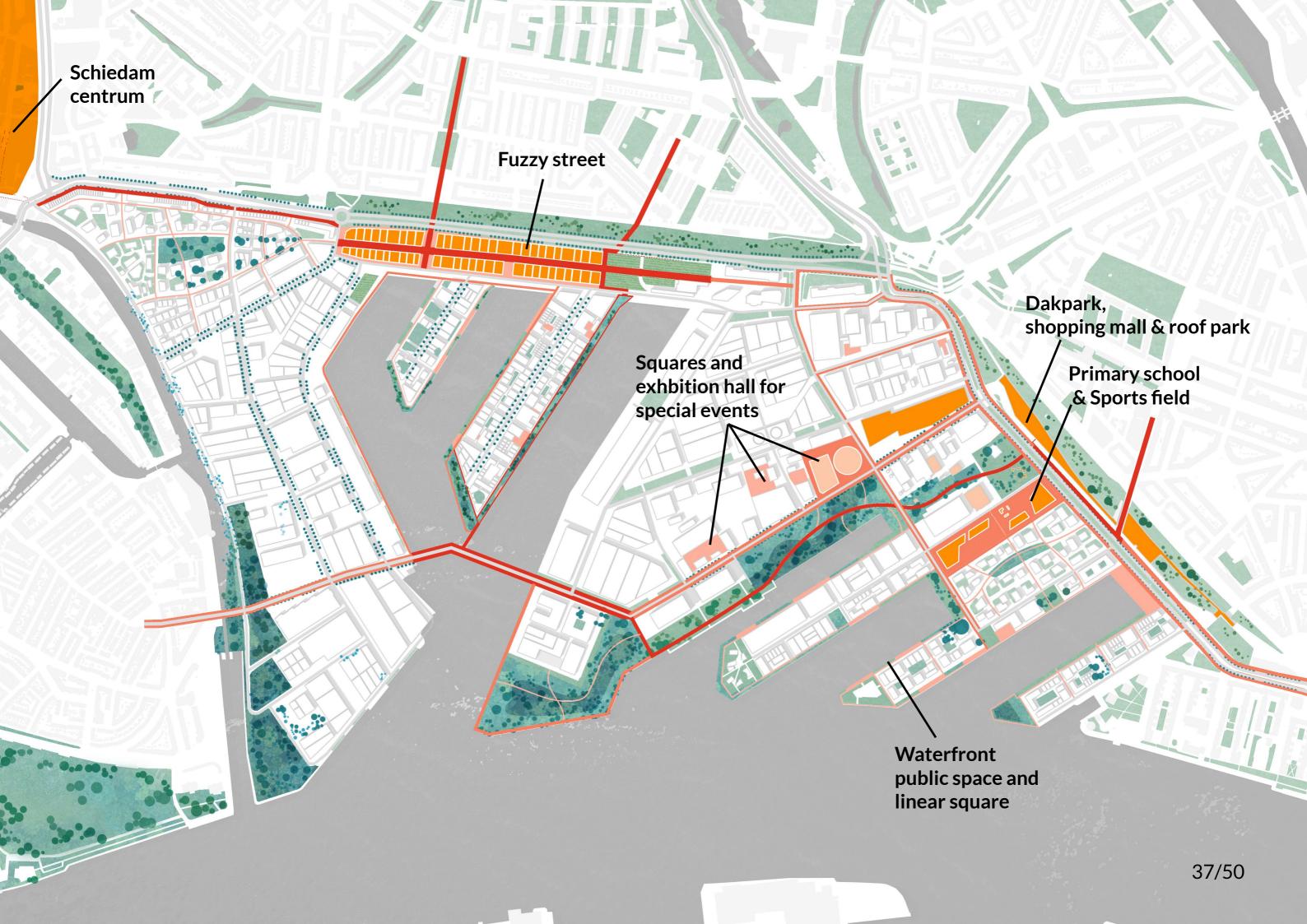






Fuzzy street





3 Landscape

It provides a spectrum of greens from peoplemaintained trees to natural growing landscape. Have both ecological and wellbeing benefits.





Landscape 3

Greenery grows back to nature. Limited accessibility for people



Landscape 2

Vegetation grows to a natural shape. Still there are places for people.



Landscape 1

Greenery, people can walk on it and relax.



Landscape 0

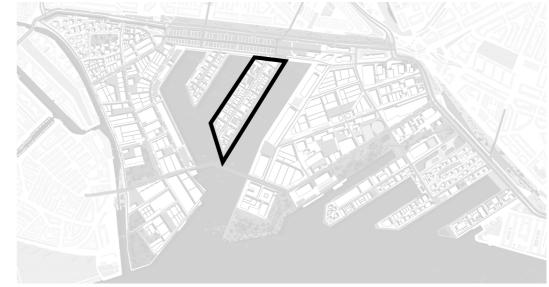
Roadside trees and courtyard.



Zoom-in

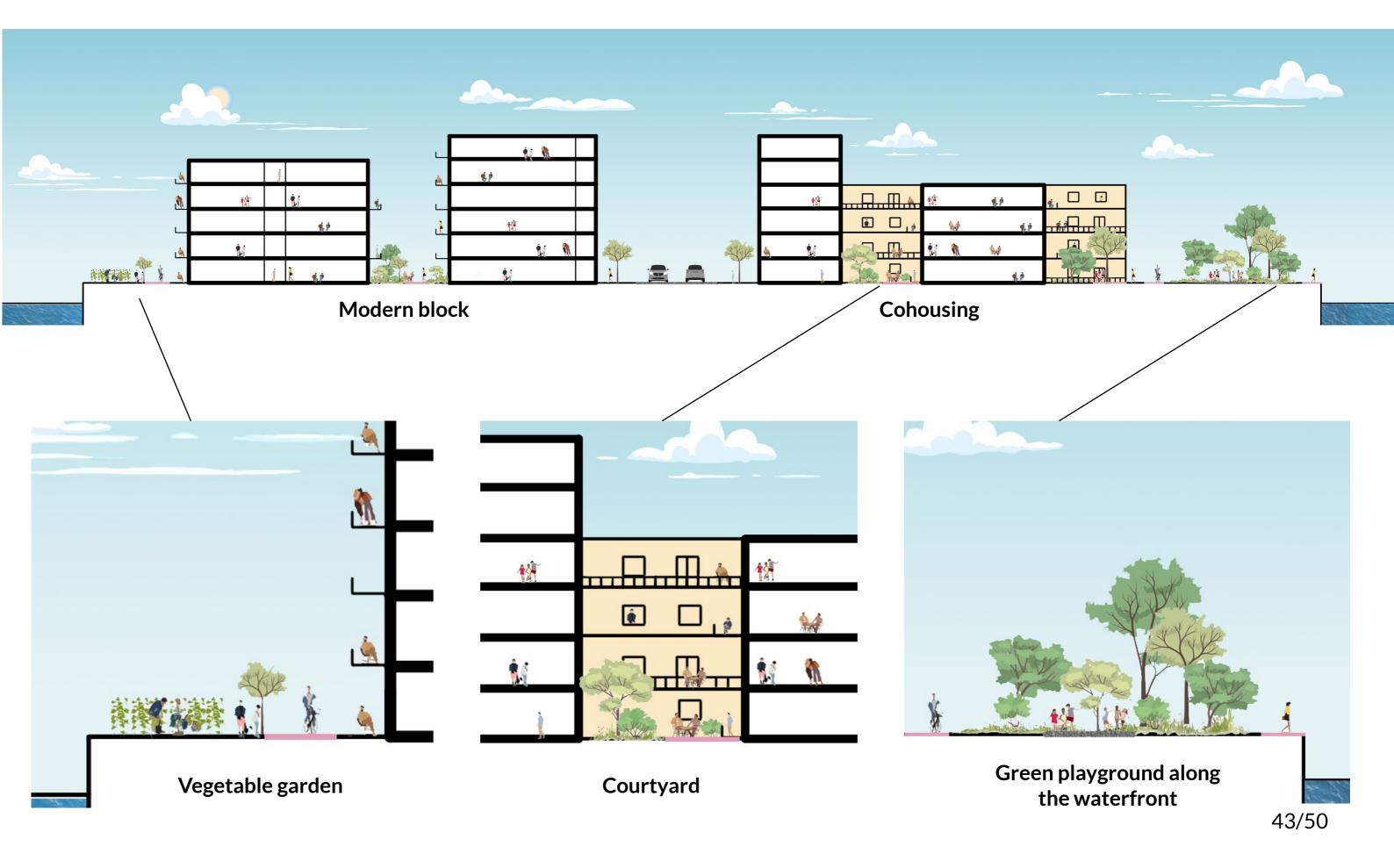
Zoom-in







Section



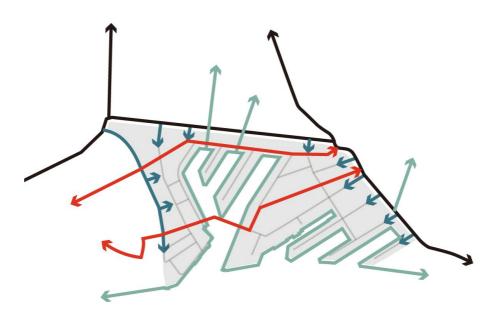


CONCLUSION

- 1. Values and principles of a sustainable mix
- 2. Future research suggestion

Values







Provide diverse work, live, and amenity for everyone

Enhance connectivity among communities

Create sustainable living environment

Principles



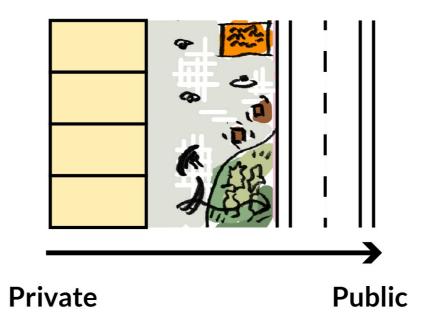
1 Mix living and working horizontally

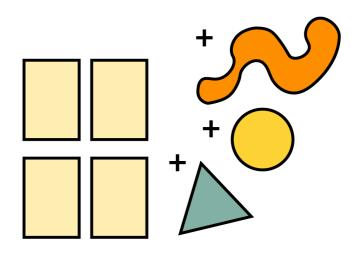
2 Create a robust and diverse economic environment

3 Properly densified housing

Principles







4 Nature in Urban district

5 A gradient transition from public to private

6 Secret of diversity: dare to combine different elements

Future research suggestion

Mindset of appreciating





