

Amsterdam



[Tri] Angles

A Sustainable and Dynamic Flow City

Graduation Booklet - Yao Lu 4605675

Flowscape Graduation Studio | Mentors: Frits Van Loon, Maurice Harteveld

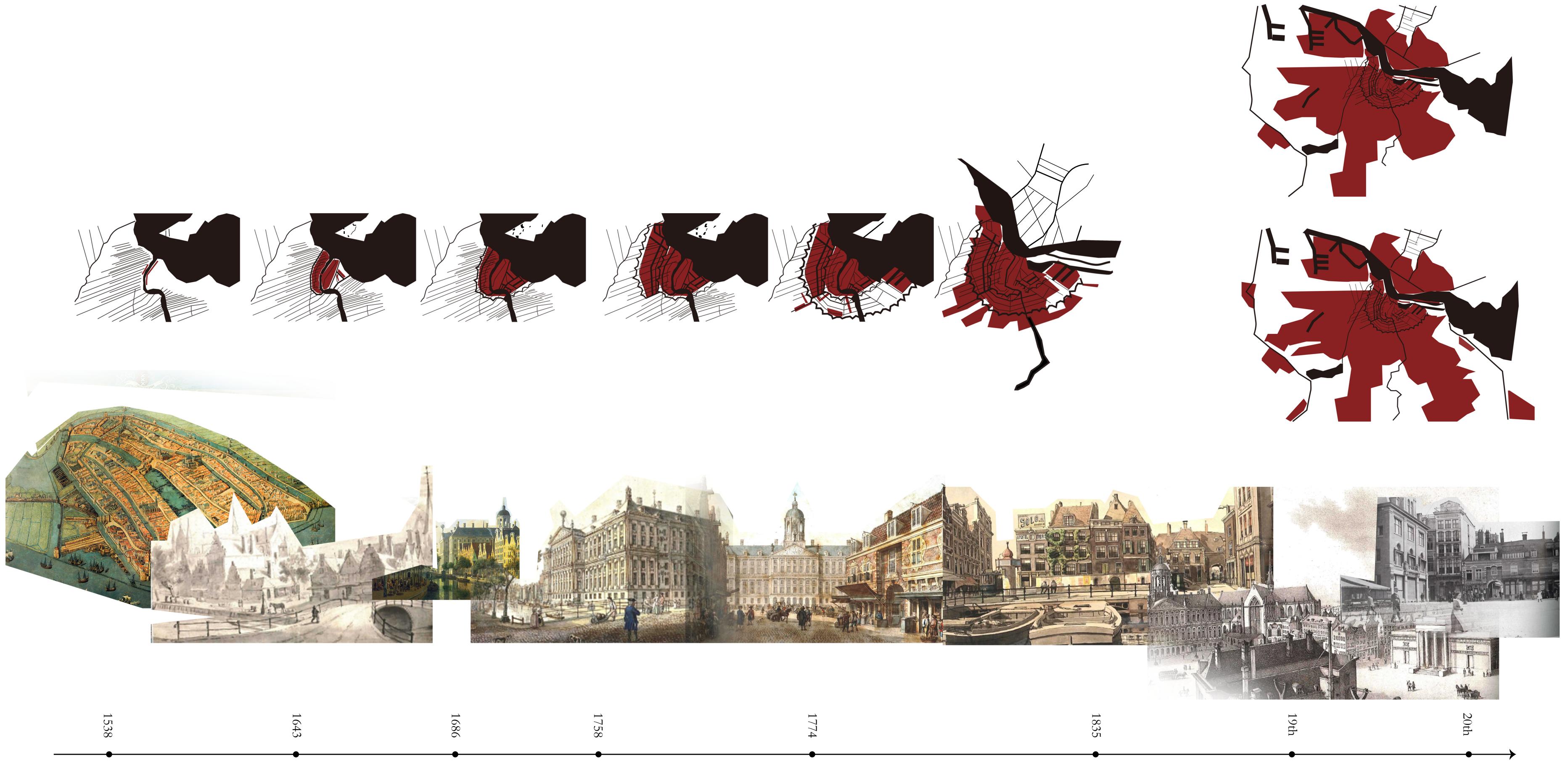


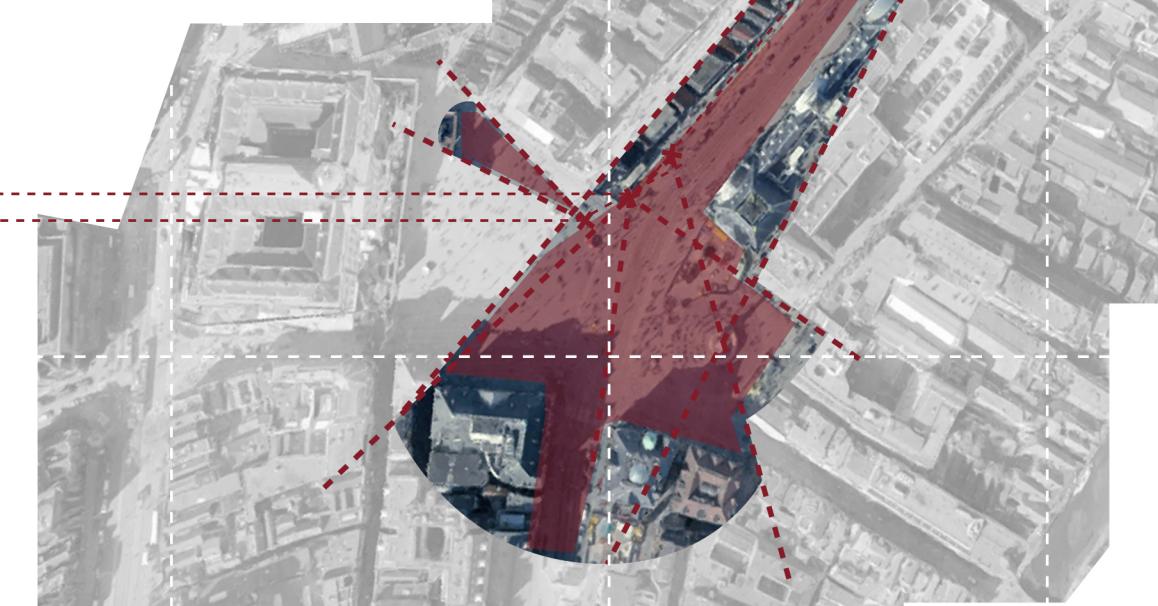
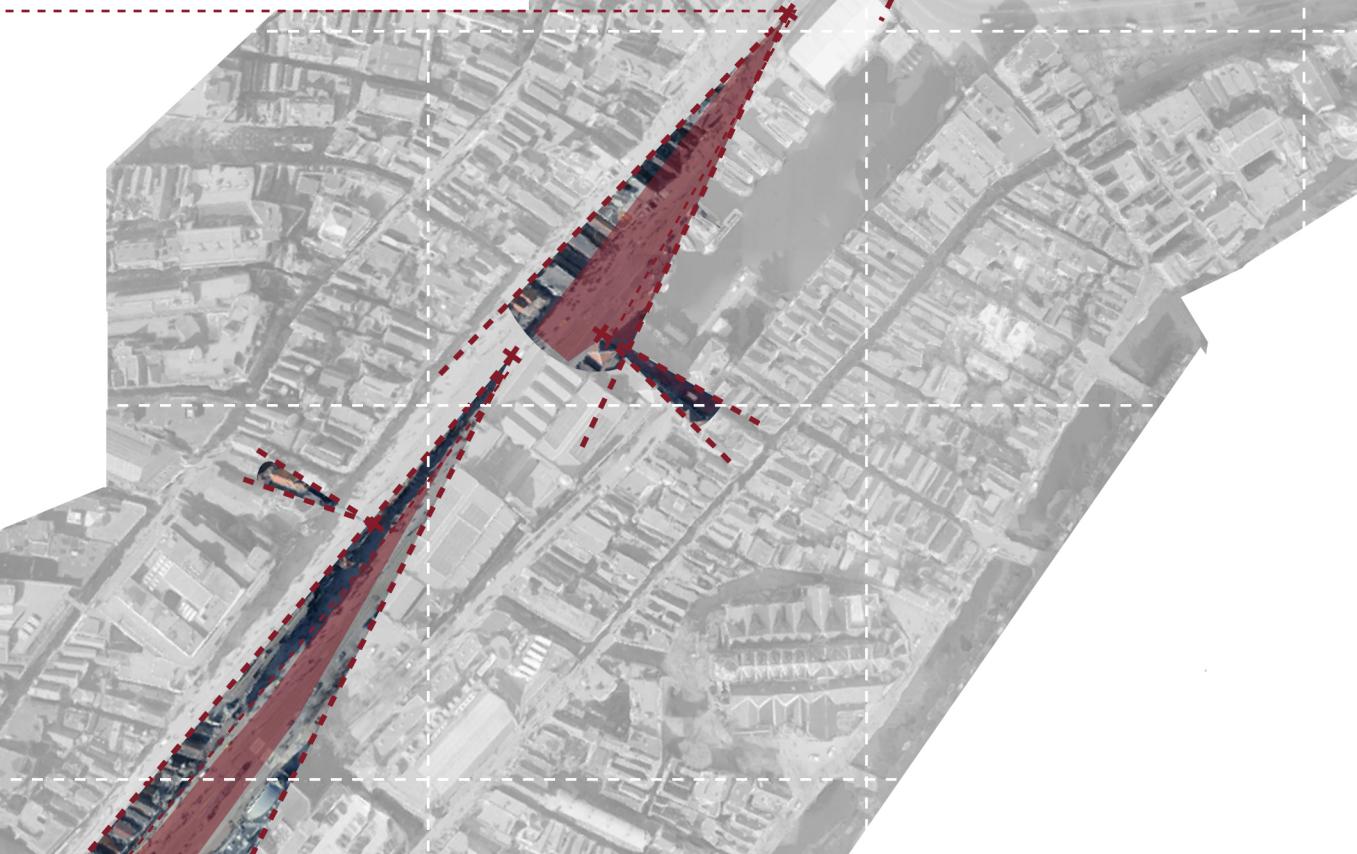
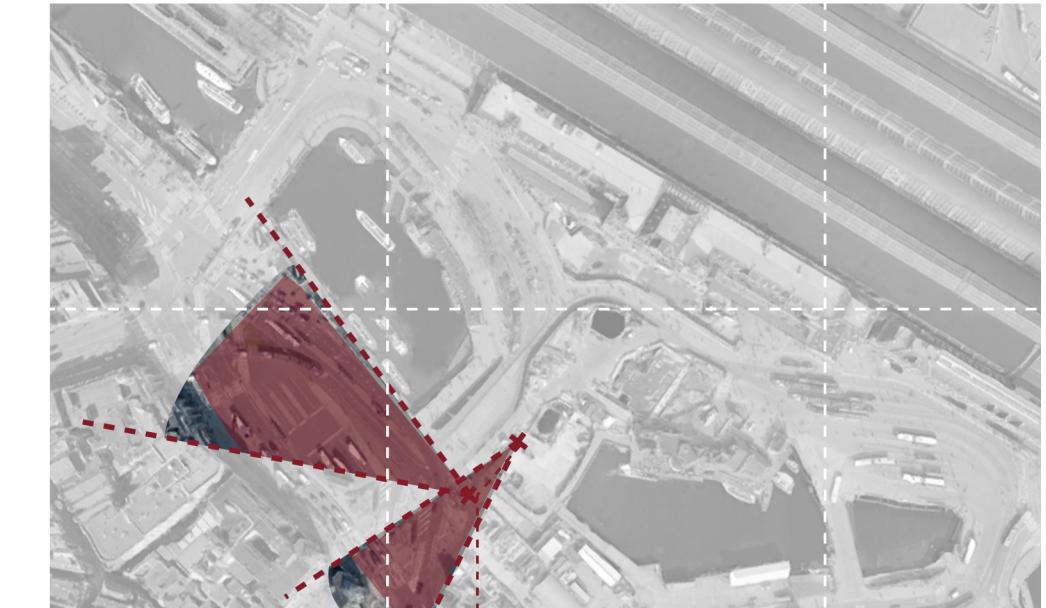
1. Introduction

"The city, ancient or modern, has some characteristics that define it forever: the street, the square, the public buildings, the residences, have established between them, through a slow and uninterrupted process, laws of composition..."

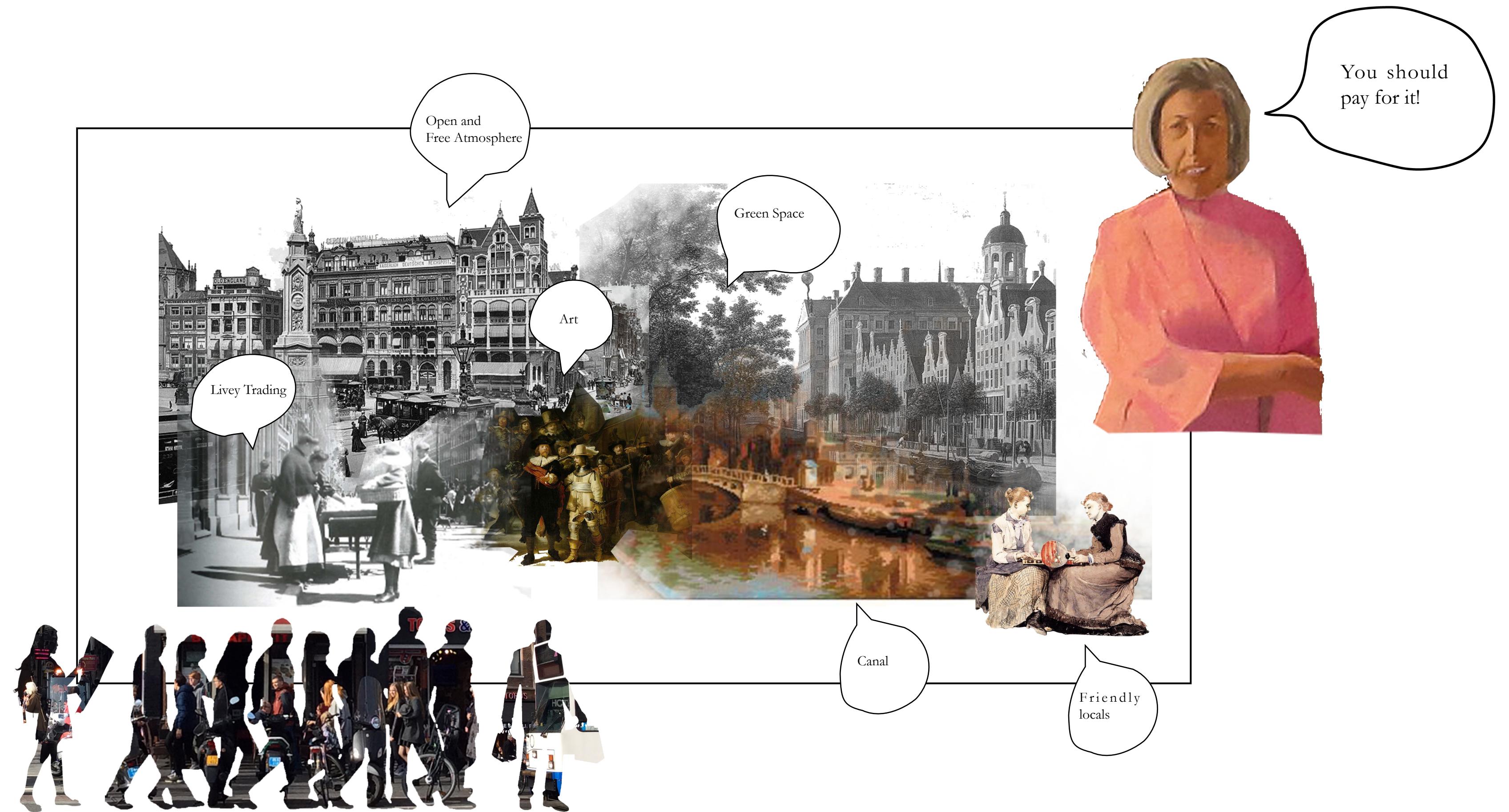
Ellin, 1999

1.1 Motivation





Messy traffic
No visual guide
The absence of identifiable elements
No qualified public space



1.2 Problem Statement

'The city did not see the dangers in time'

Interview Professor Jan van der Borg Tourism also supplies a lot, says professor Jan van der Borg. But residents do not take advantage of that.

© Miriam Remie © April 12, 2016



Amsterdam, tourism, the dirt and the full city

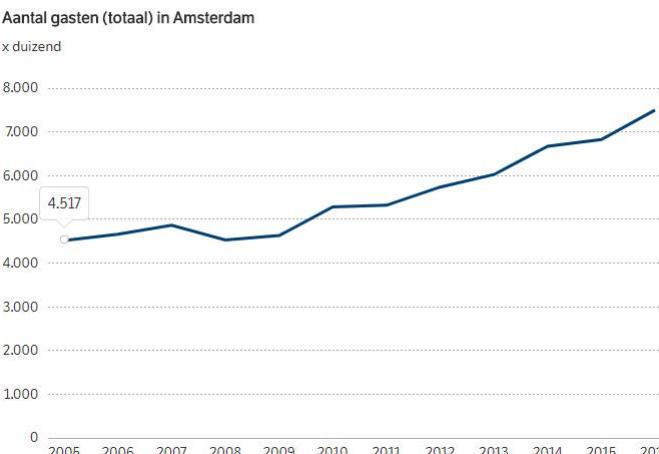
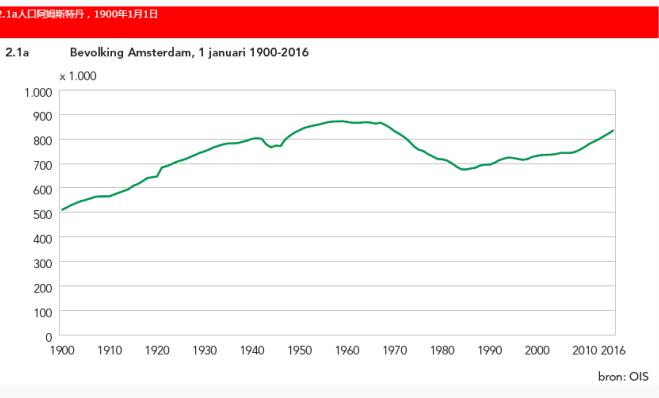
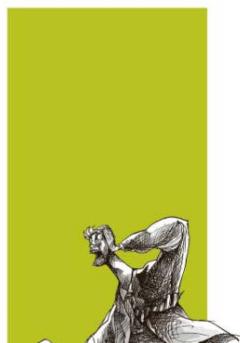
Amsterdam comes in its own filth. The new college must act quickly to prevent further slipping, "said Wim Pijbes.

© Wim Pijbes © August 1, 2014

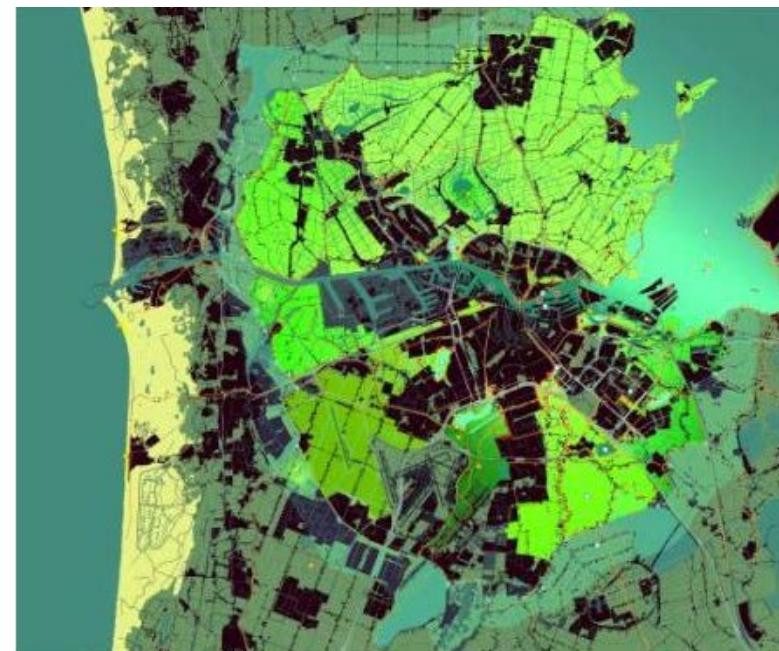
This season, Amsterdam is the first time in full measure, meaning it is an attractive city for visitors from home and abroad. With the reopening of the museums, the city has nowadays an unprecedented attractive cultural infrastructure. Amsterdam benefits from worldwide cultural tourism.

The great numbers are hardly the reason to lean back, rather the opposite. But this success does not seem to be an undivided pleasure for all. Residents complain, drivers and agencies react, and so on, a new finger is pushed into the dike.

Amsterdam is at the forefront of making or hiring at the world's top international cities, or staying behind in the middle-class cities in the



Vison 2040



1. Rolling out city center

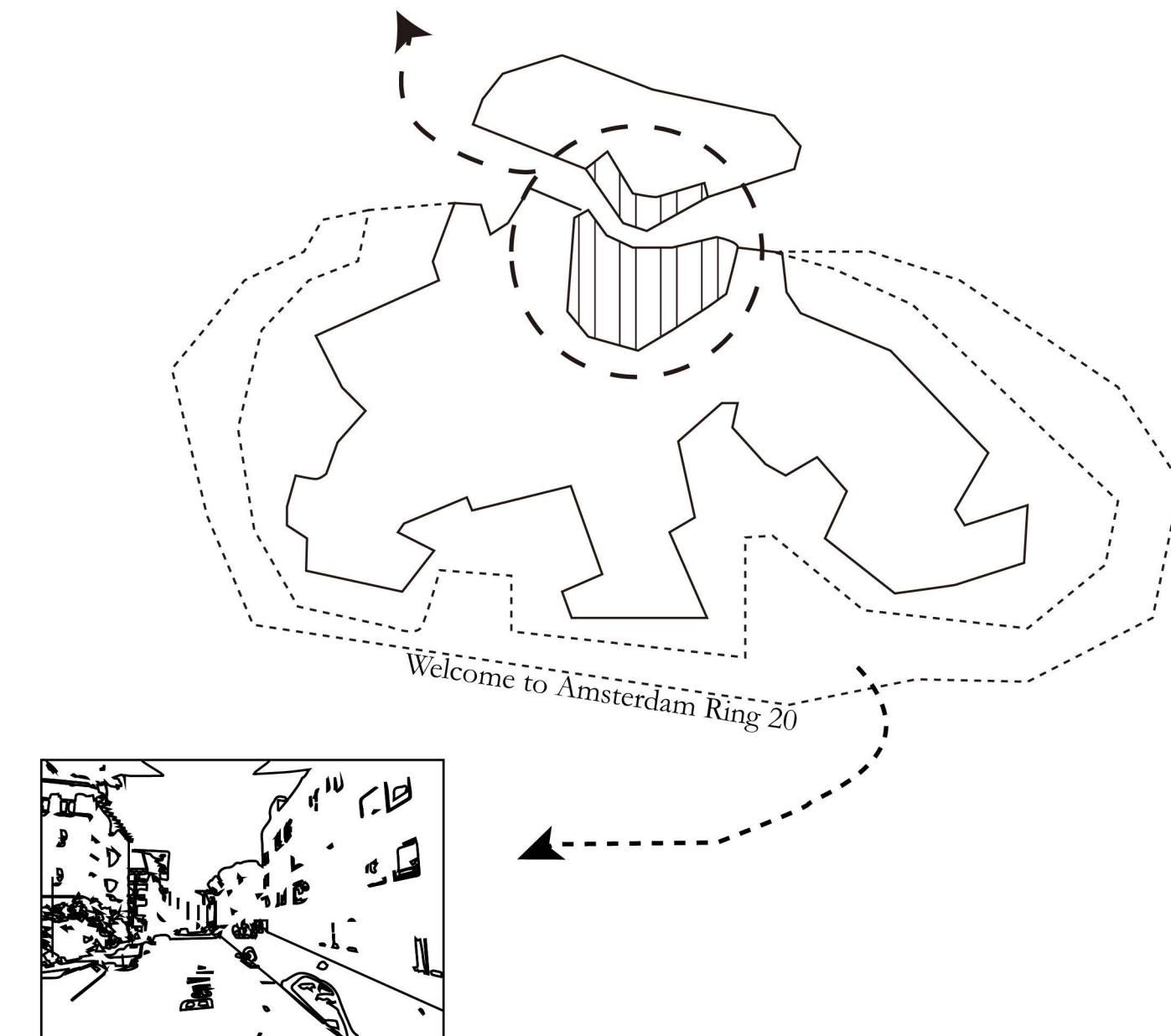
2. Interweaving the metropolitan landscape and the city

3. The rediscovery of the waterfront

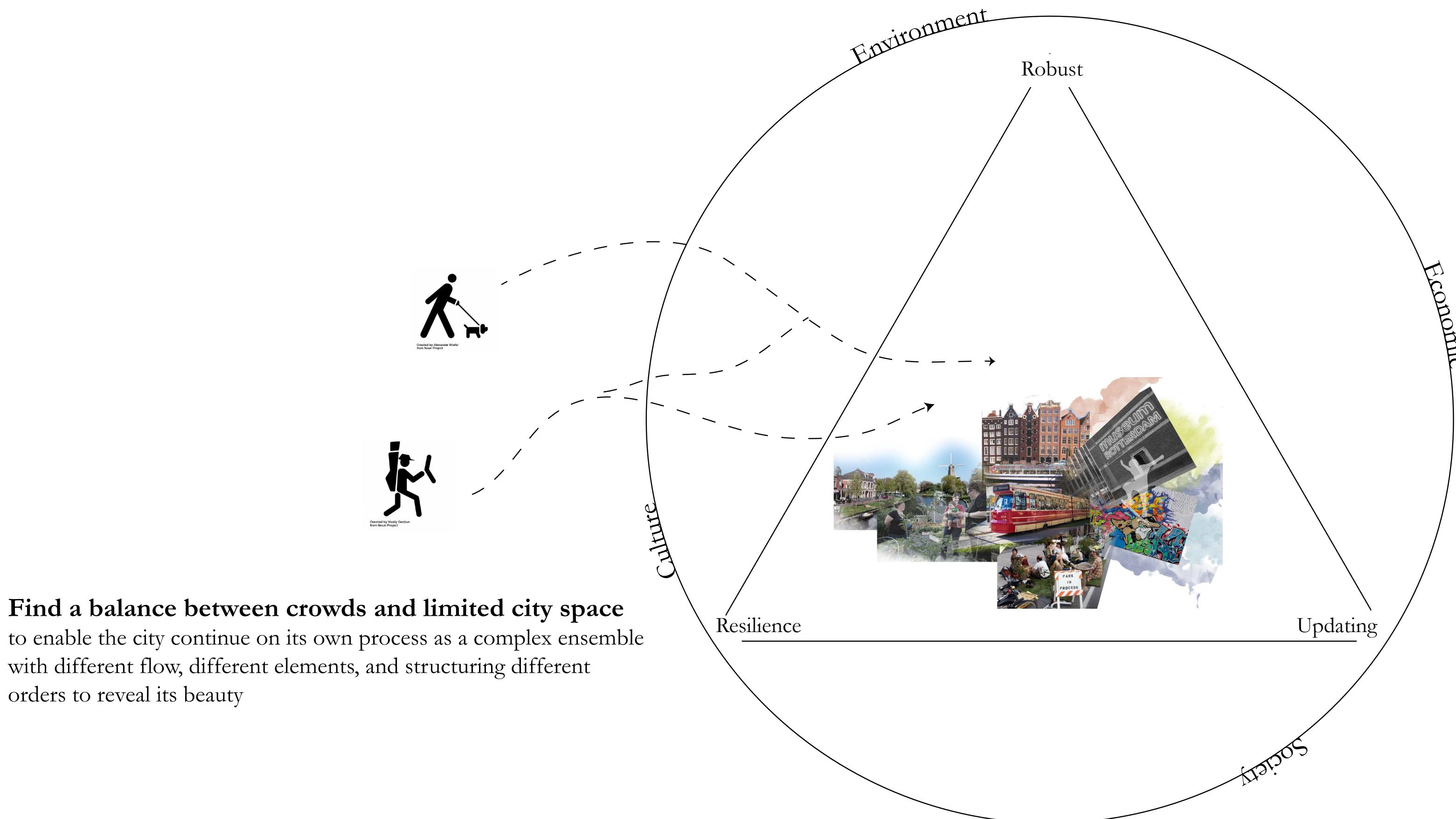
4. Internationalization of the Southern Flank



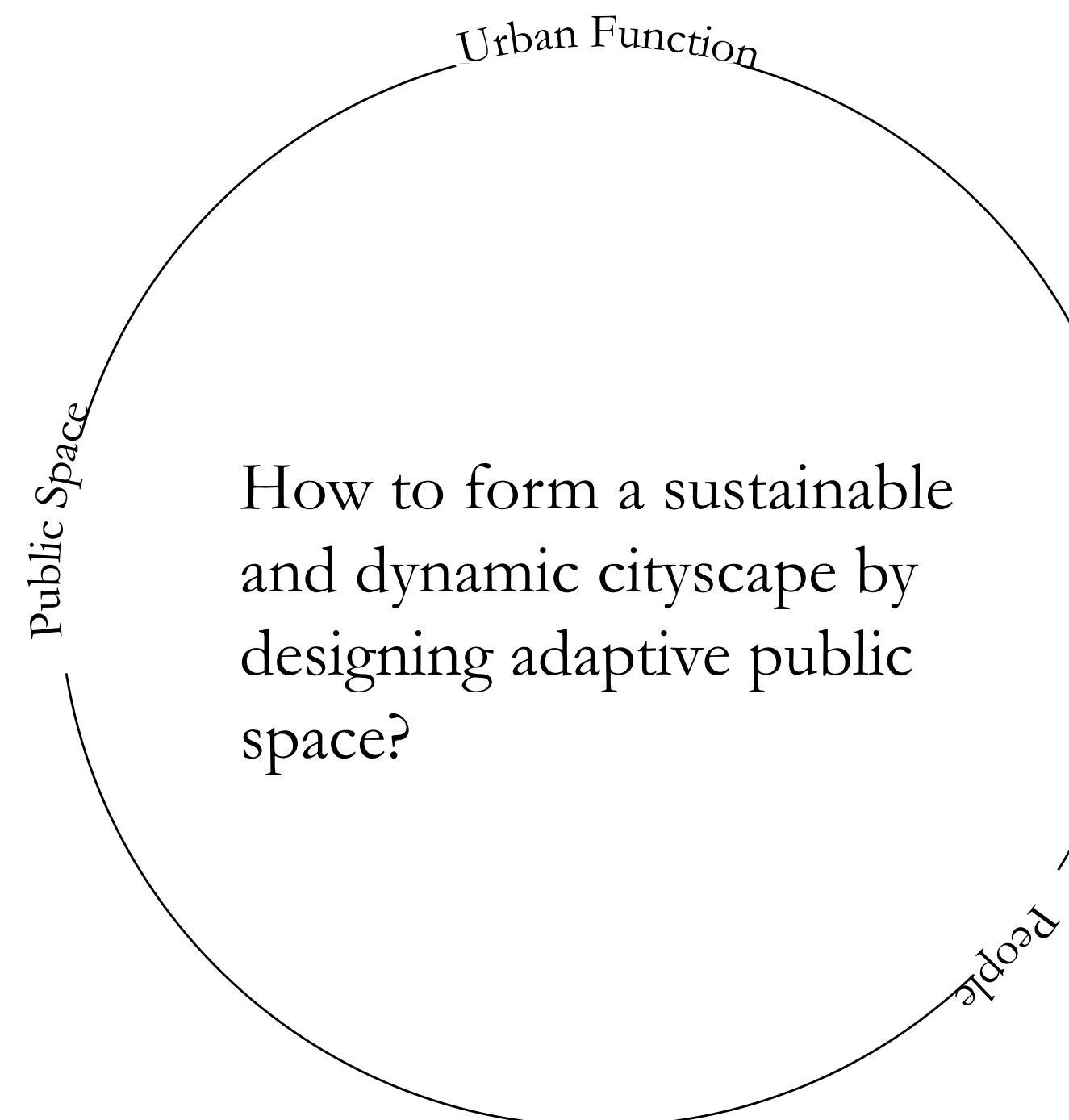
Amsterdam Theme Park



1.3 Research Objective

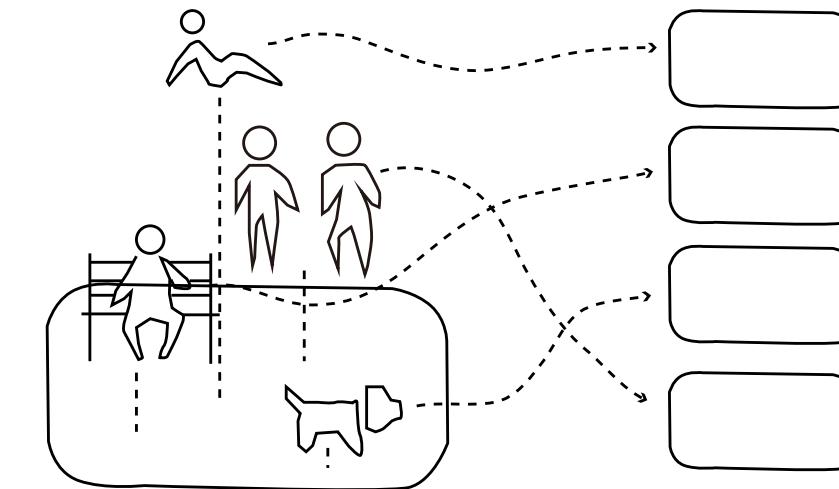
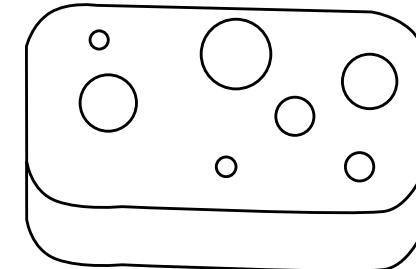


1.4 Research Question



Sustainable and Dynamic:
The sense of place is legible during the succession of cityscape.

Adaptive space:



Basic Information

Where do people go in Amsterdam centre?

What should be the identity of Amsterdam centre?

What are the components of Amsterdam centre?

What may be the possible future for Amsterdam centre?

Theoretical background

How to categorize the built environment and people?

What influences people's movement or social behavior?

What influence the sense of place perceived by people?

Application

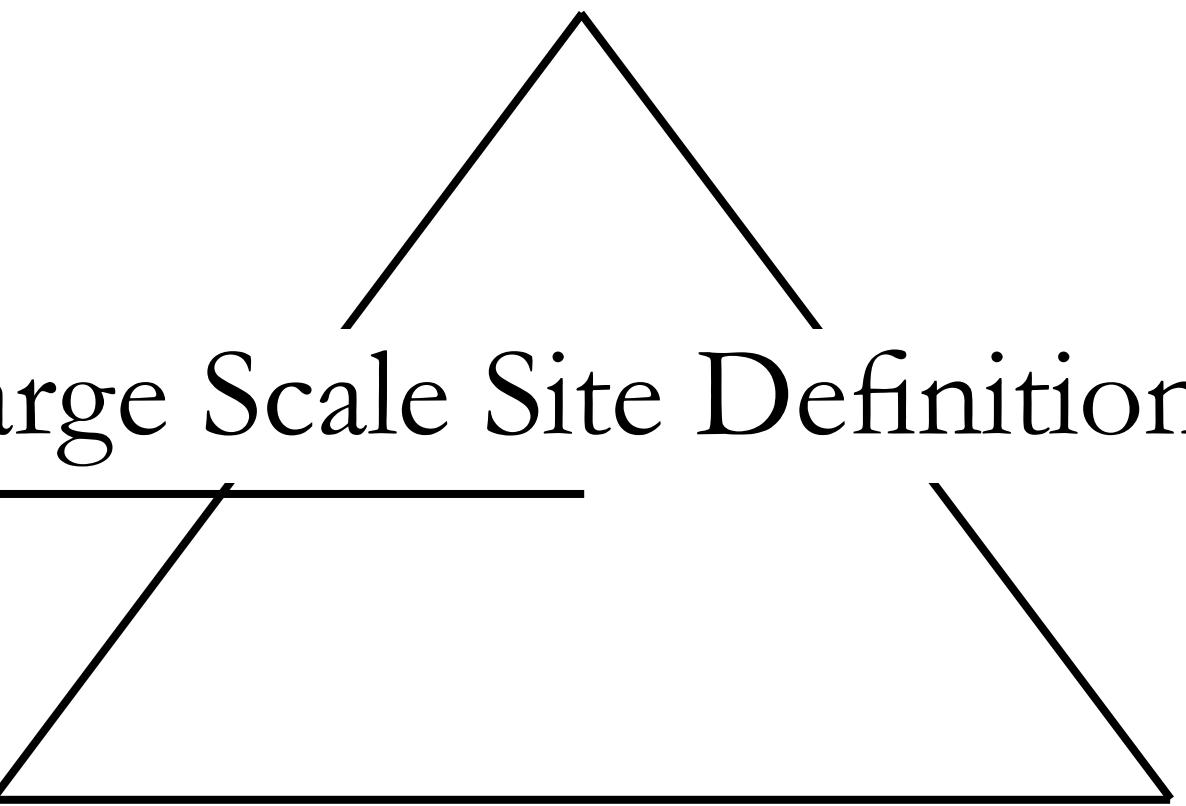
How can adaptive cityscape distribute people?

How can limited space provide legible sense of place?

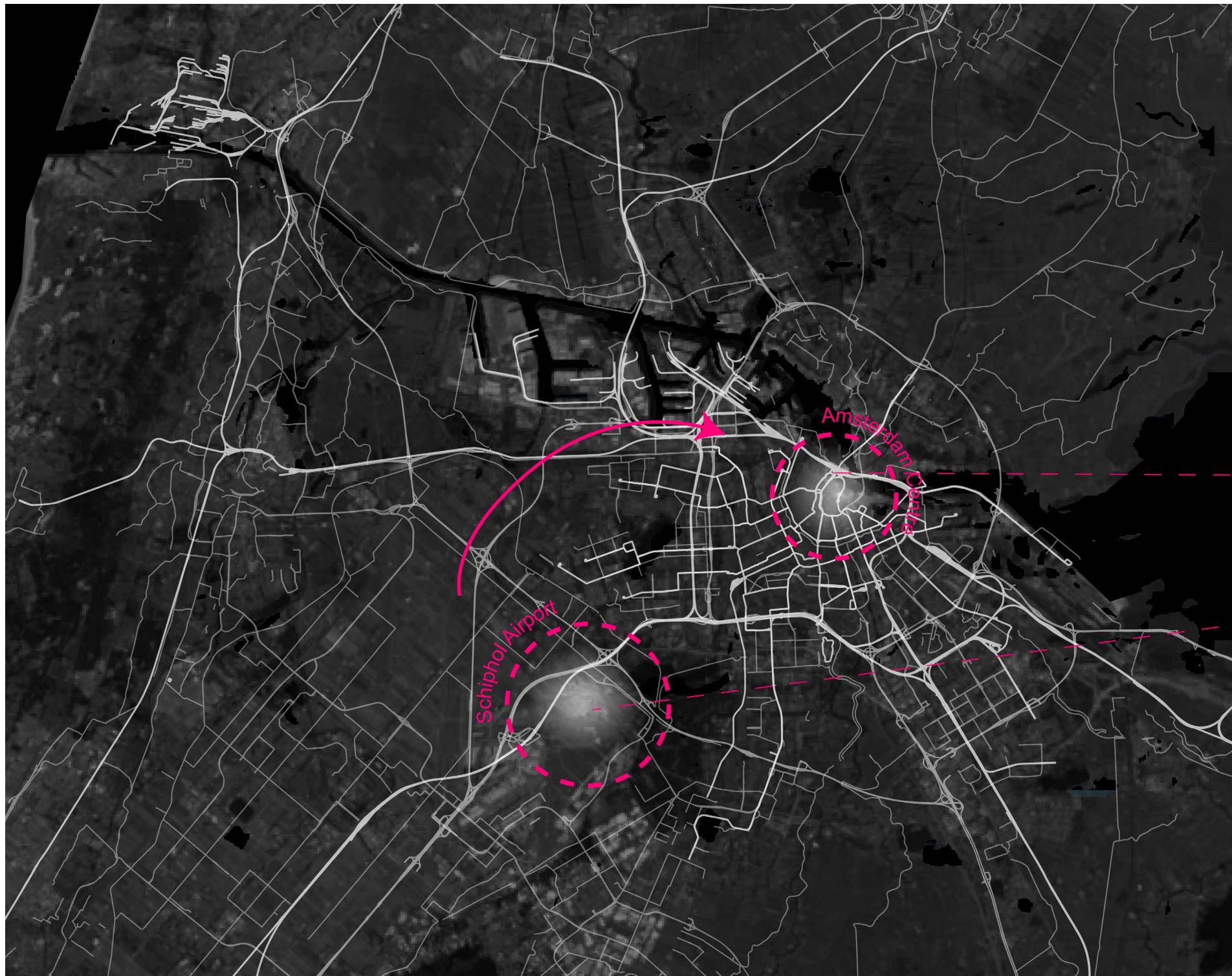
Reflection

How to make it feasible?

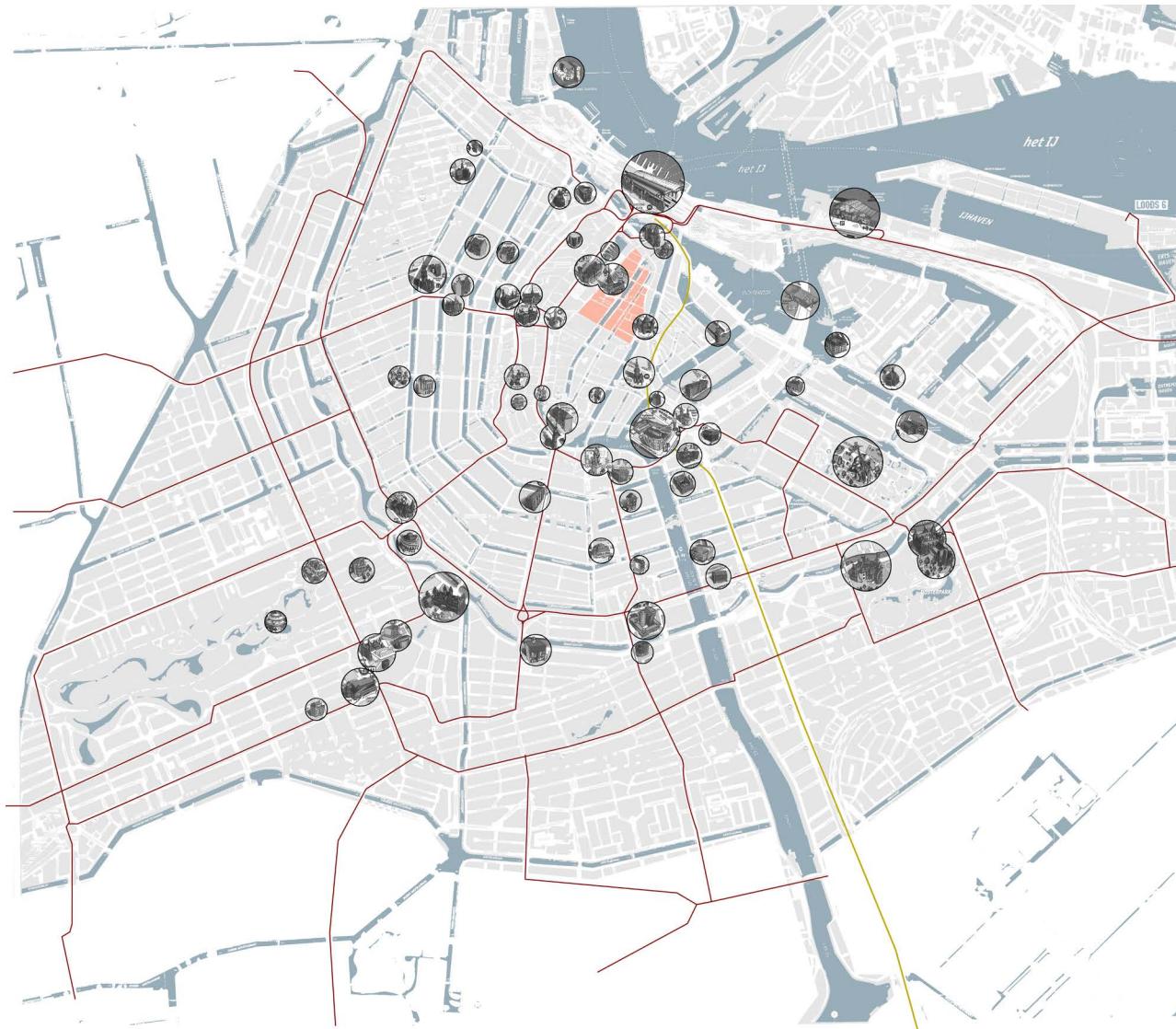
2. Large Scale Site Definition



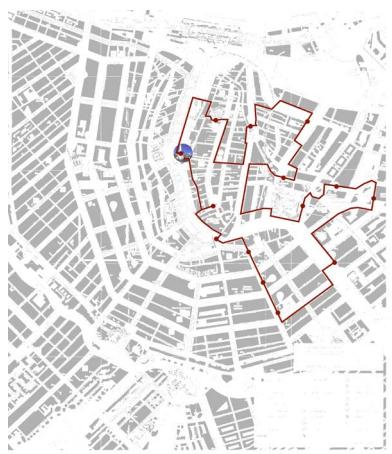
2.1 Surrounding Connection



2.2 Problematic Site Located



Bike trip in
canal area



Bike trip in
old city



Hop-on hop-
off boat

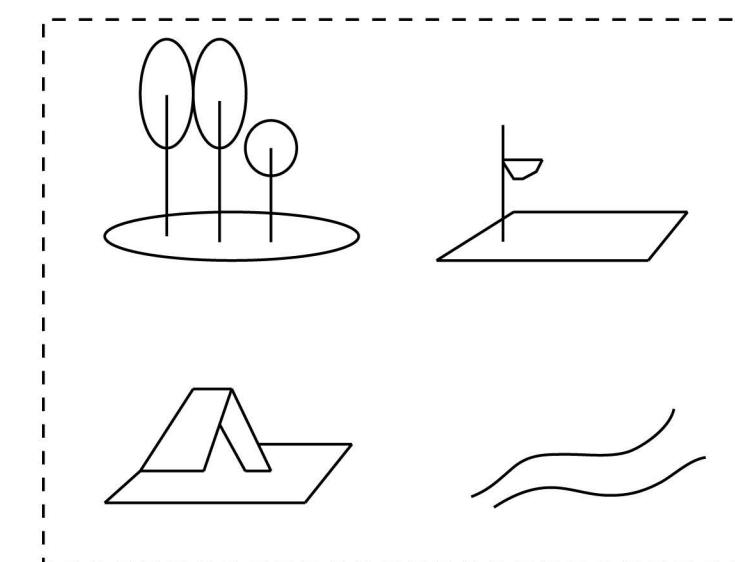
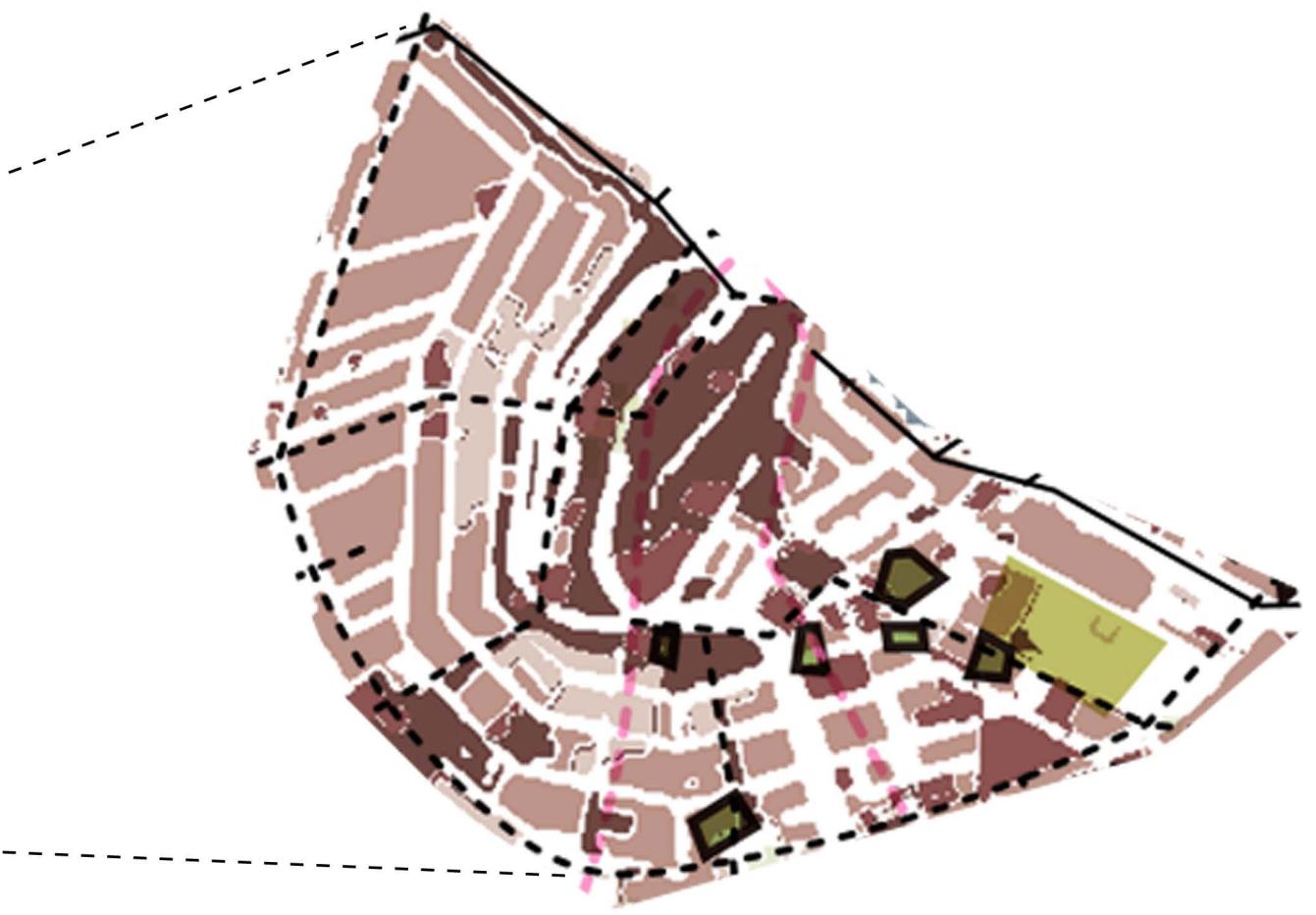
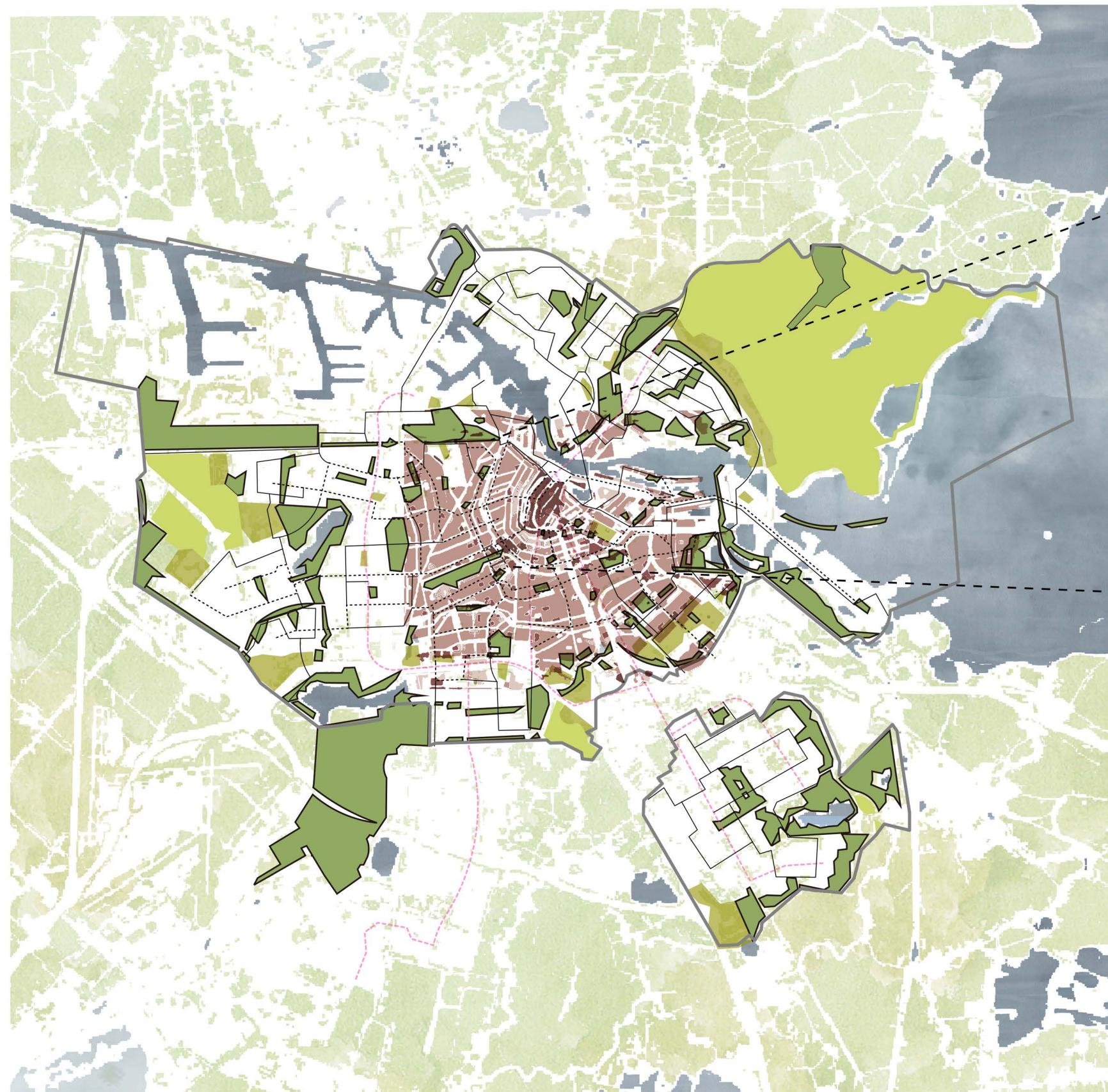


Cruise



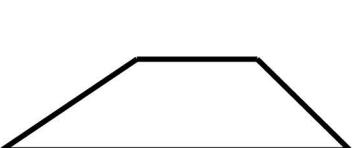
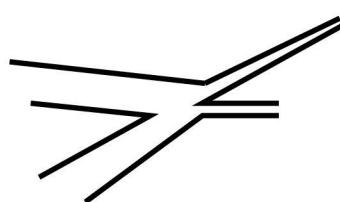
Tour Bus

2.3 Land Use Analysis

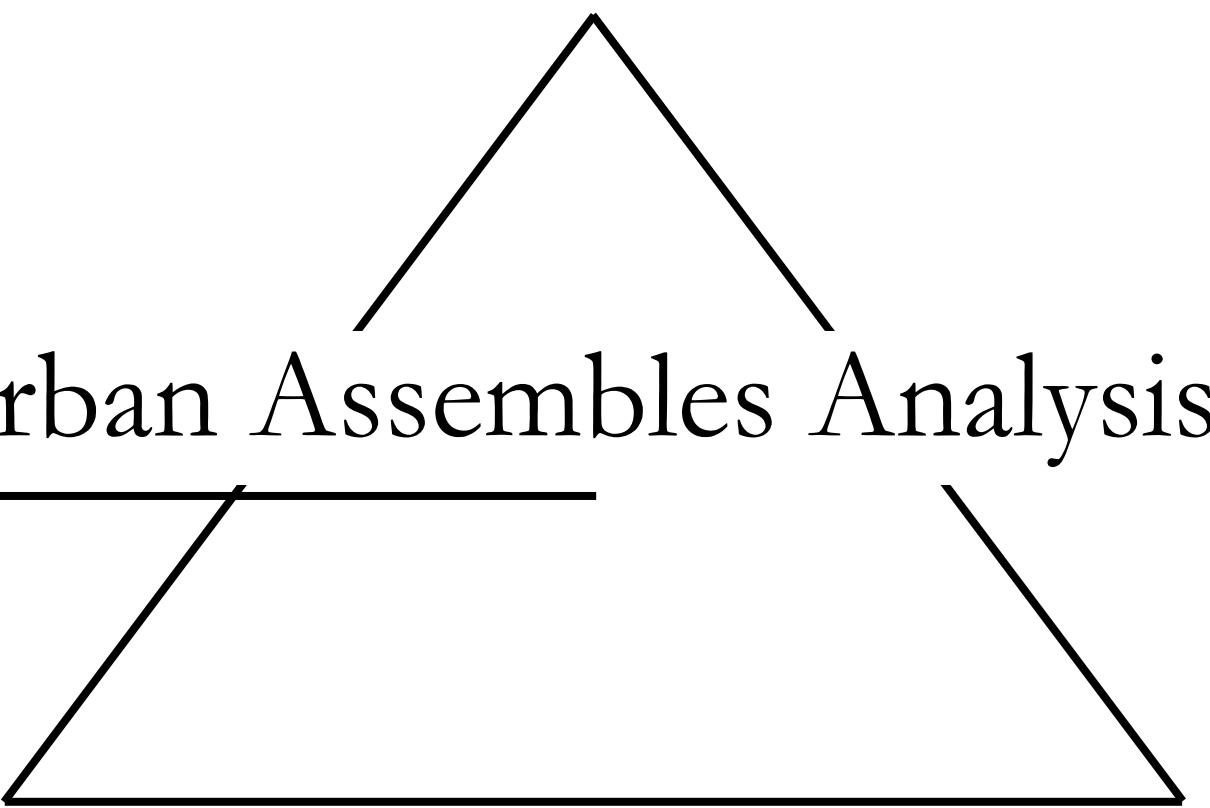


Street

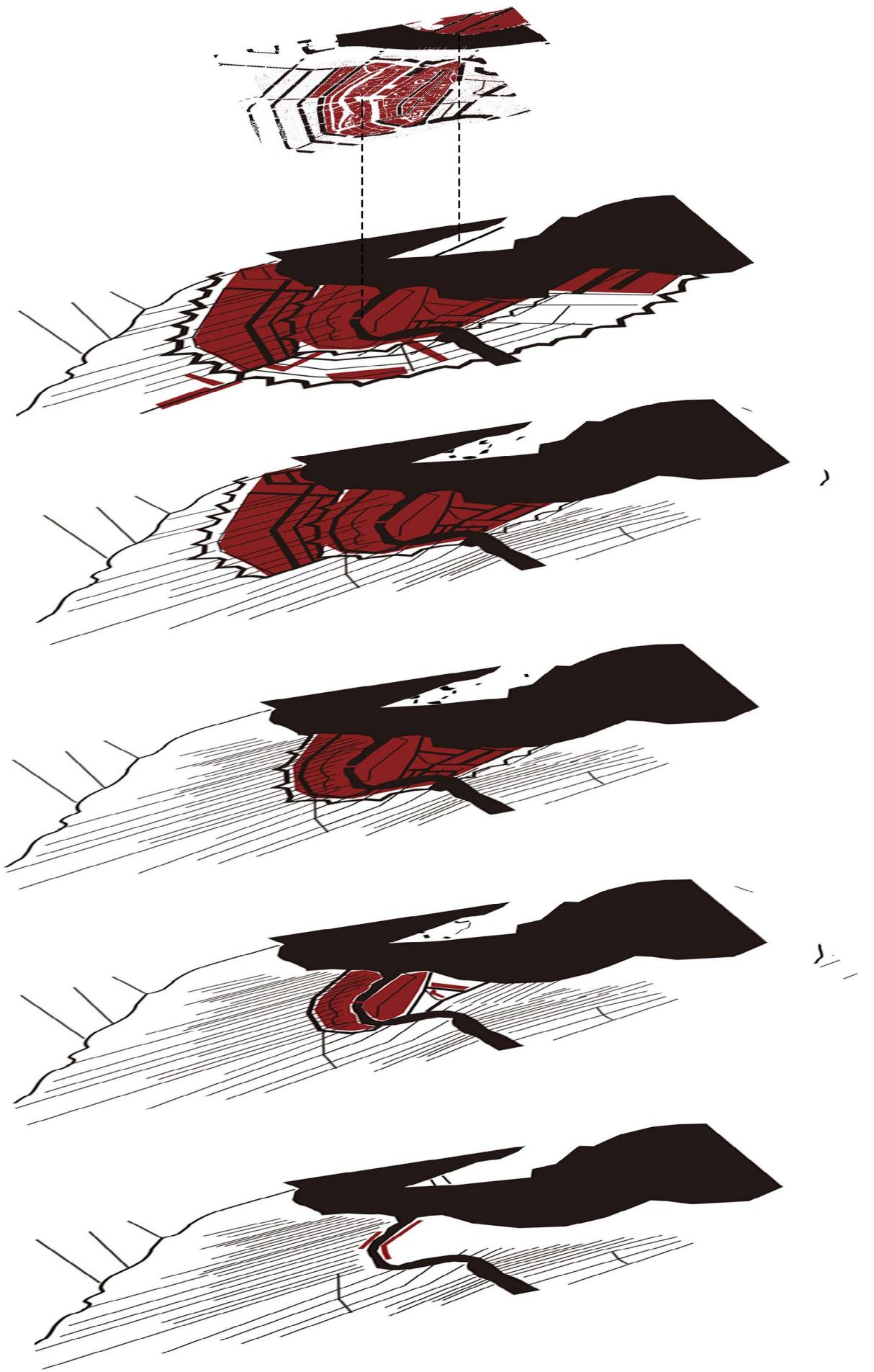
Square



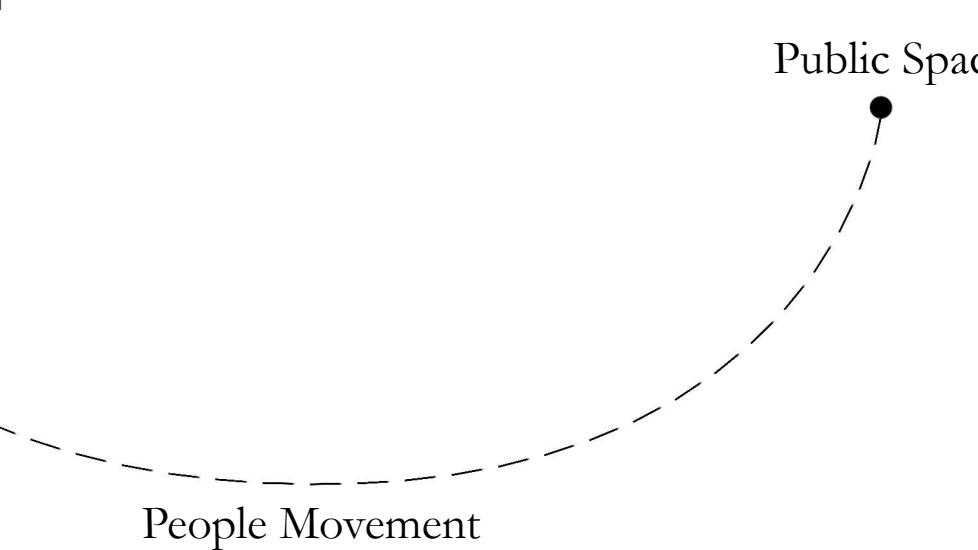
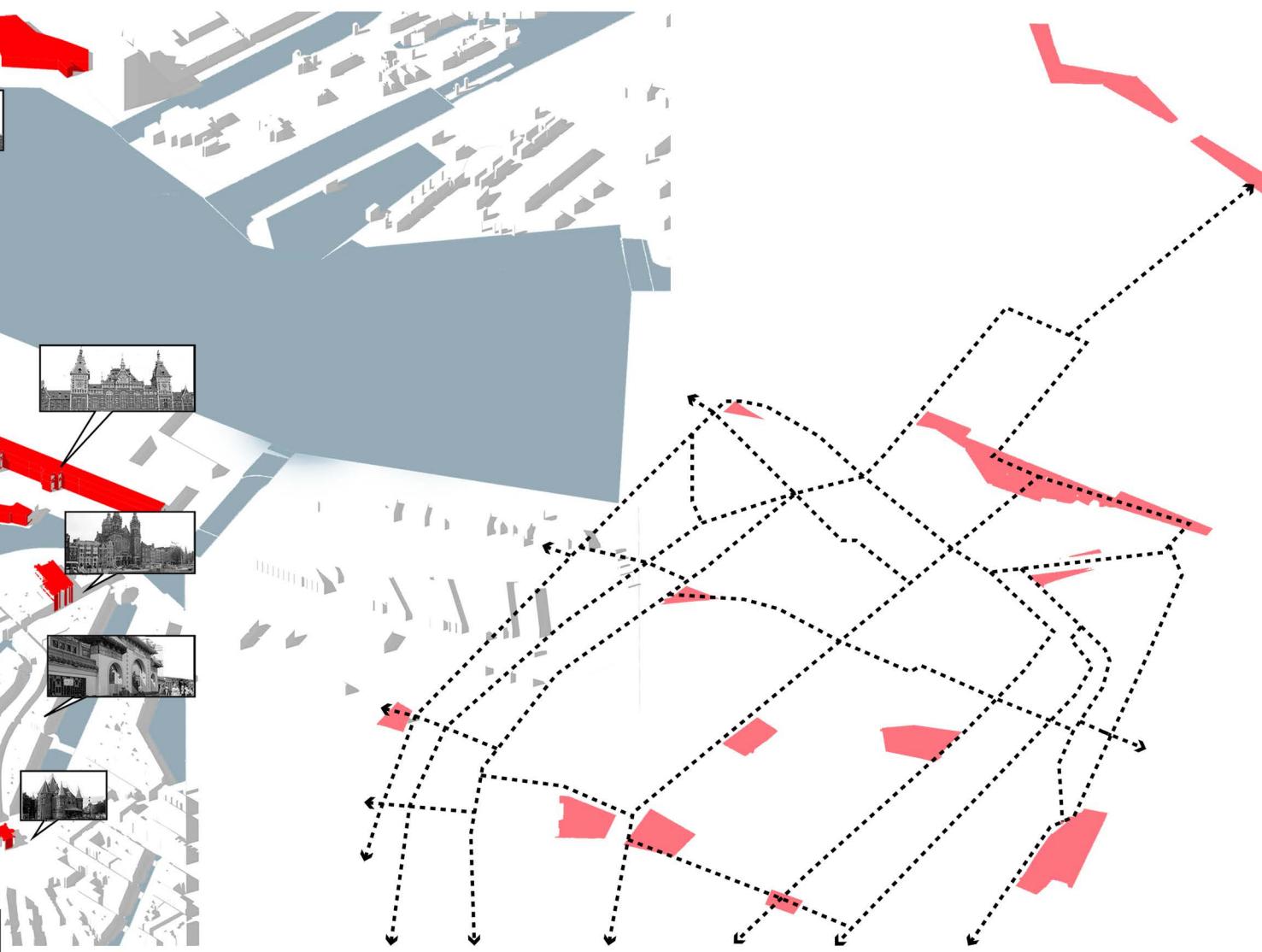
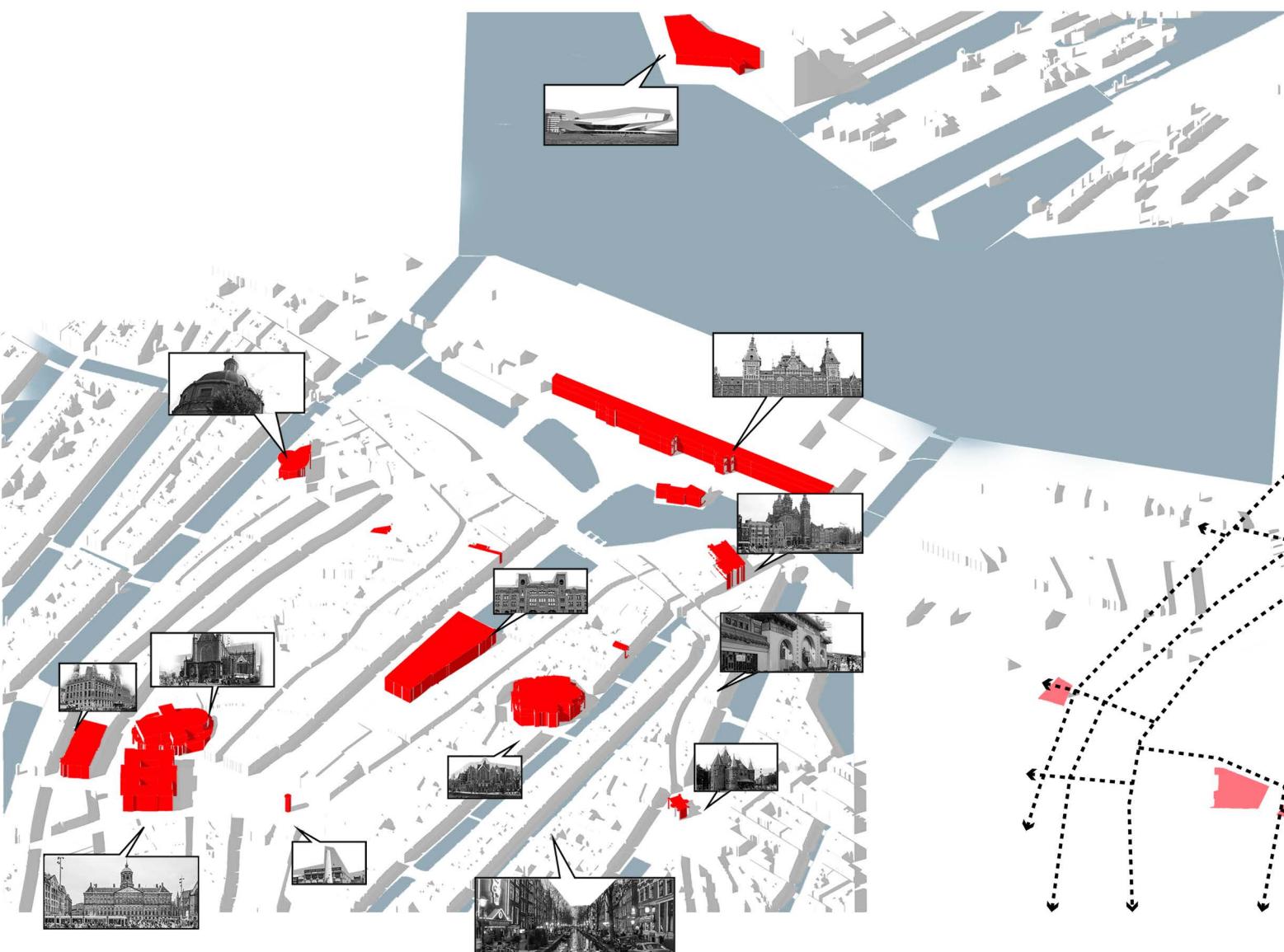
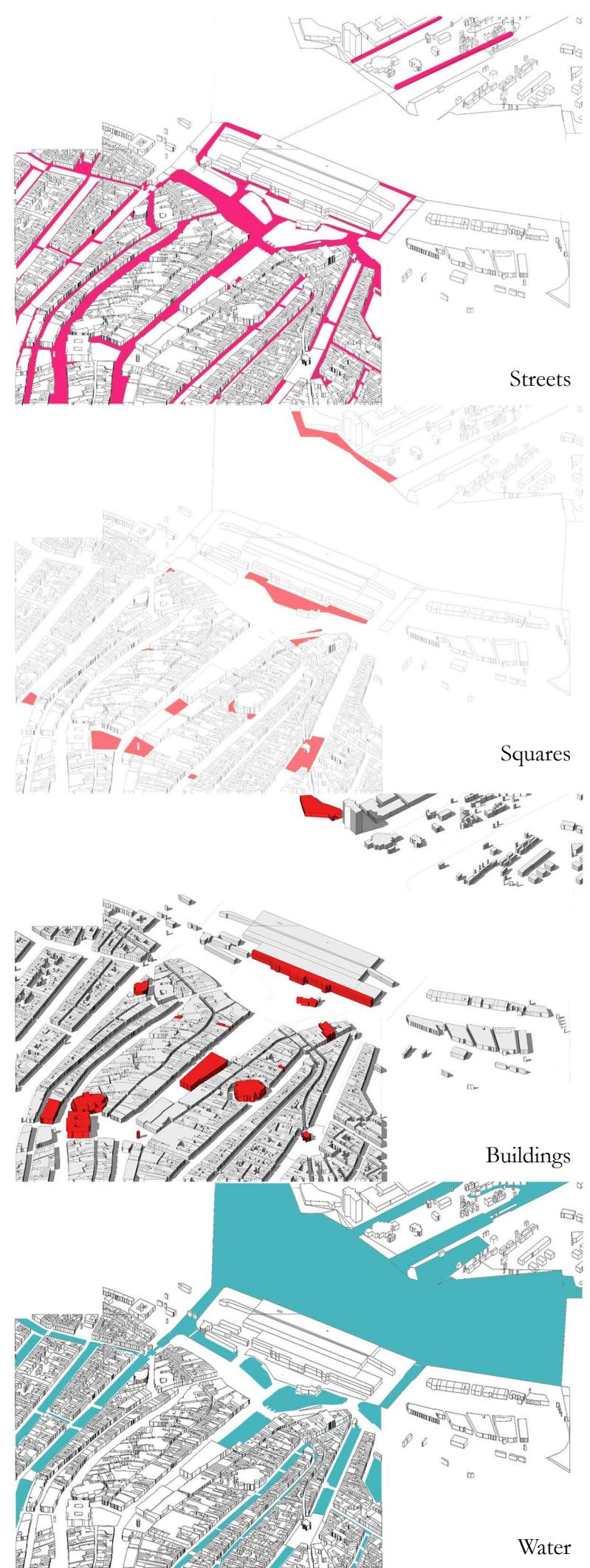
3. Urban Assembles Analysis



3.1 Layers during Urban Succession

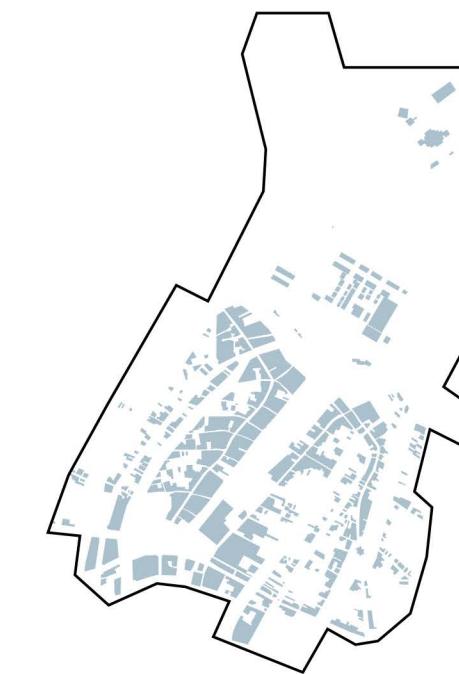


3.2 Existing Assemblies

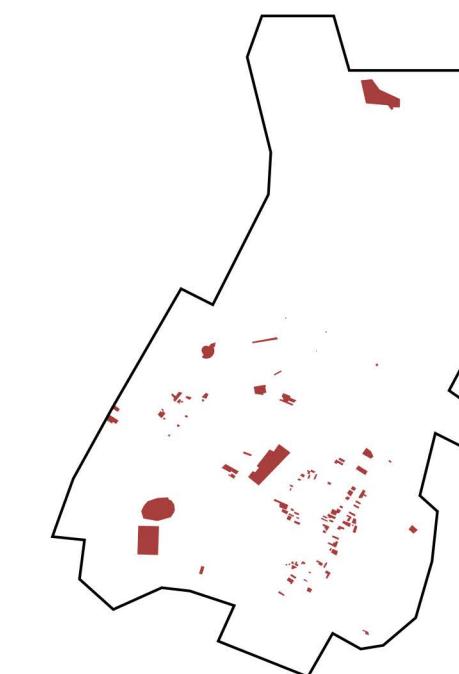


3.3 Buildings

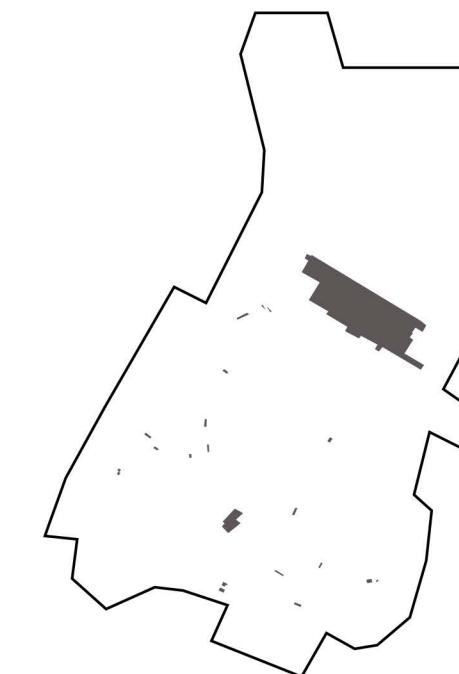
3.3 Typology of Building



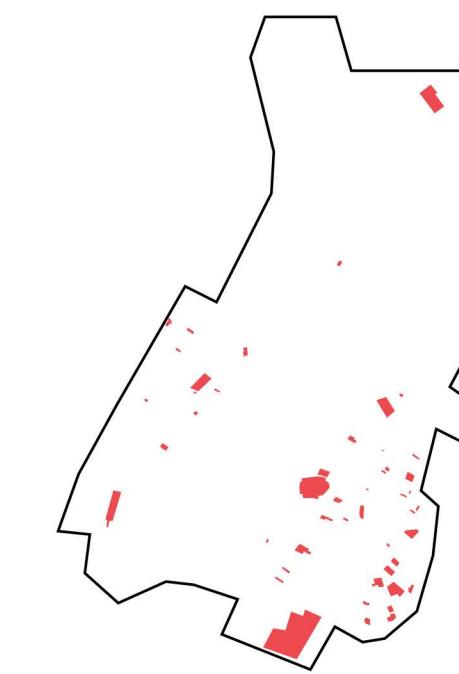
Commercial Use



Acativies



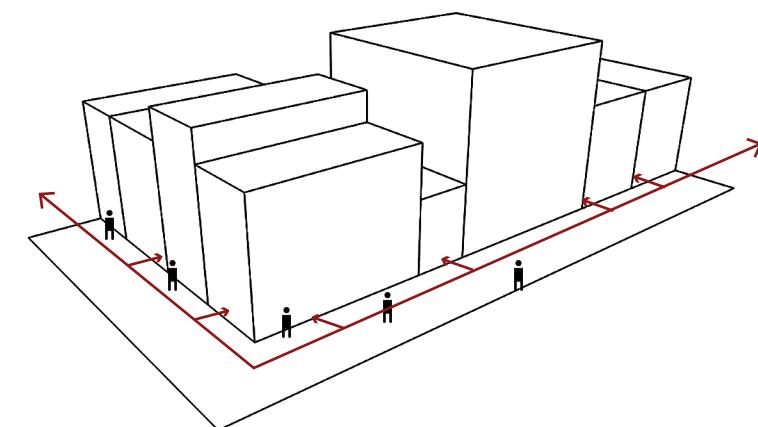
Public transportation



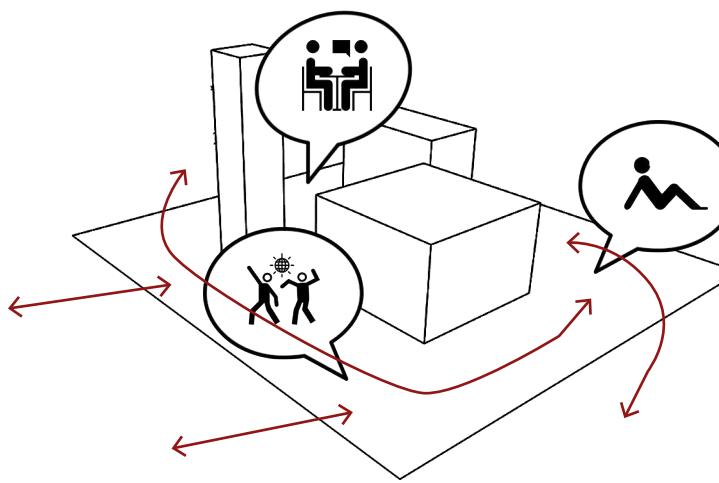
Religion/Education



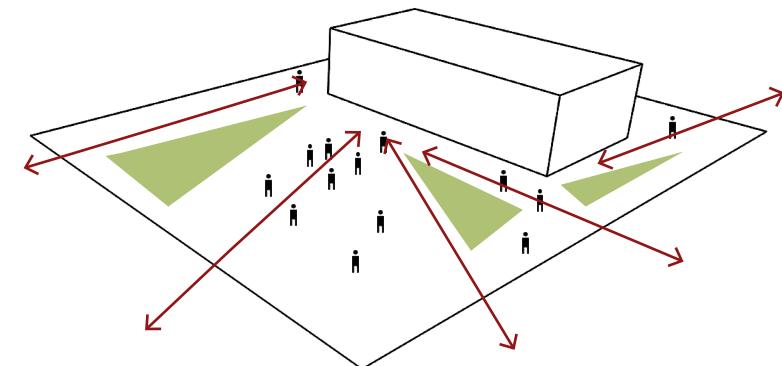
Residential Use



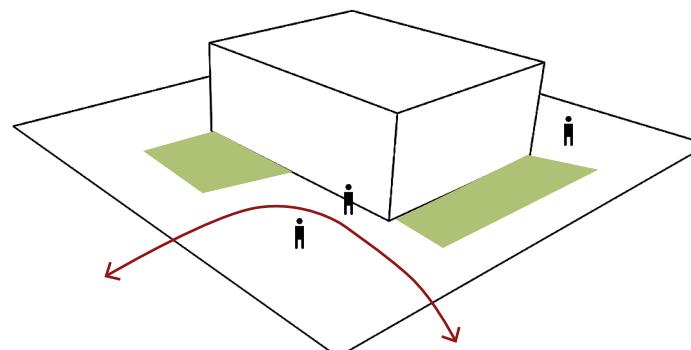
Commercial Use



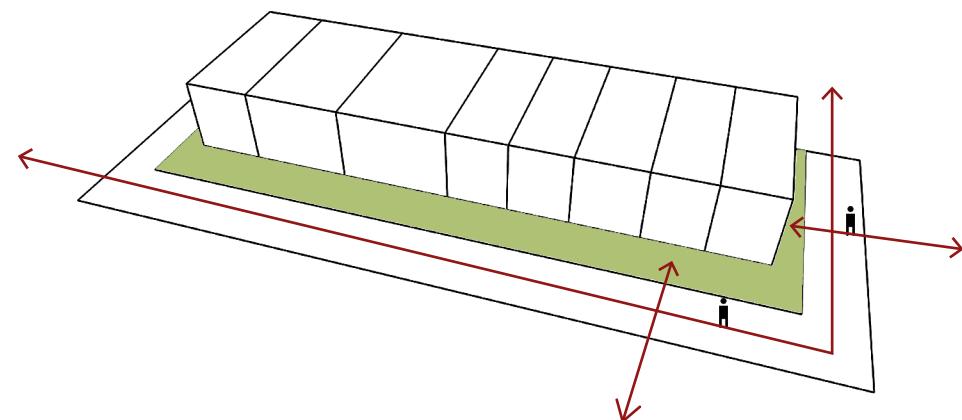
Activities



Public Transportation



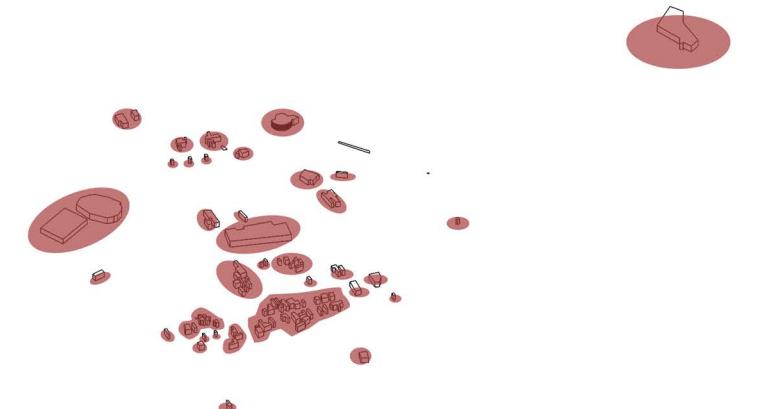
Religion/Education



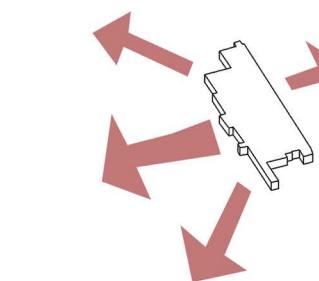
Residential Use



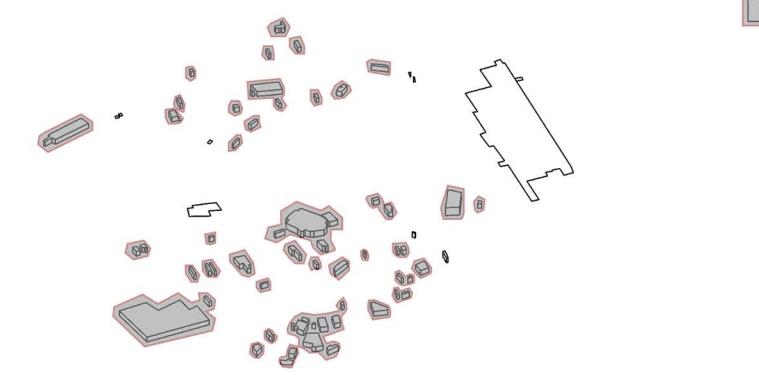
Commercial Use



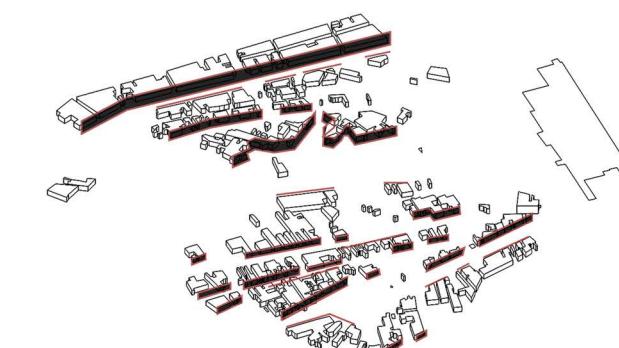
Activities



Public Transportation

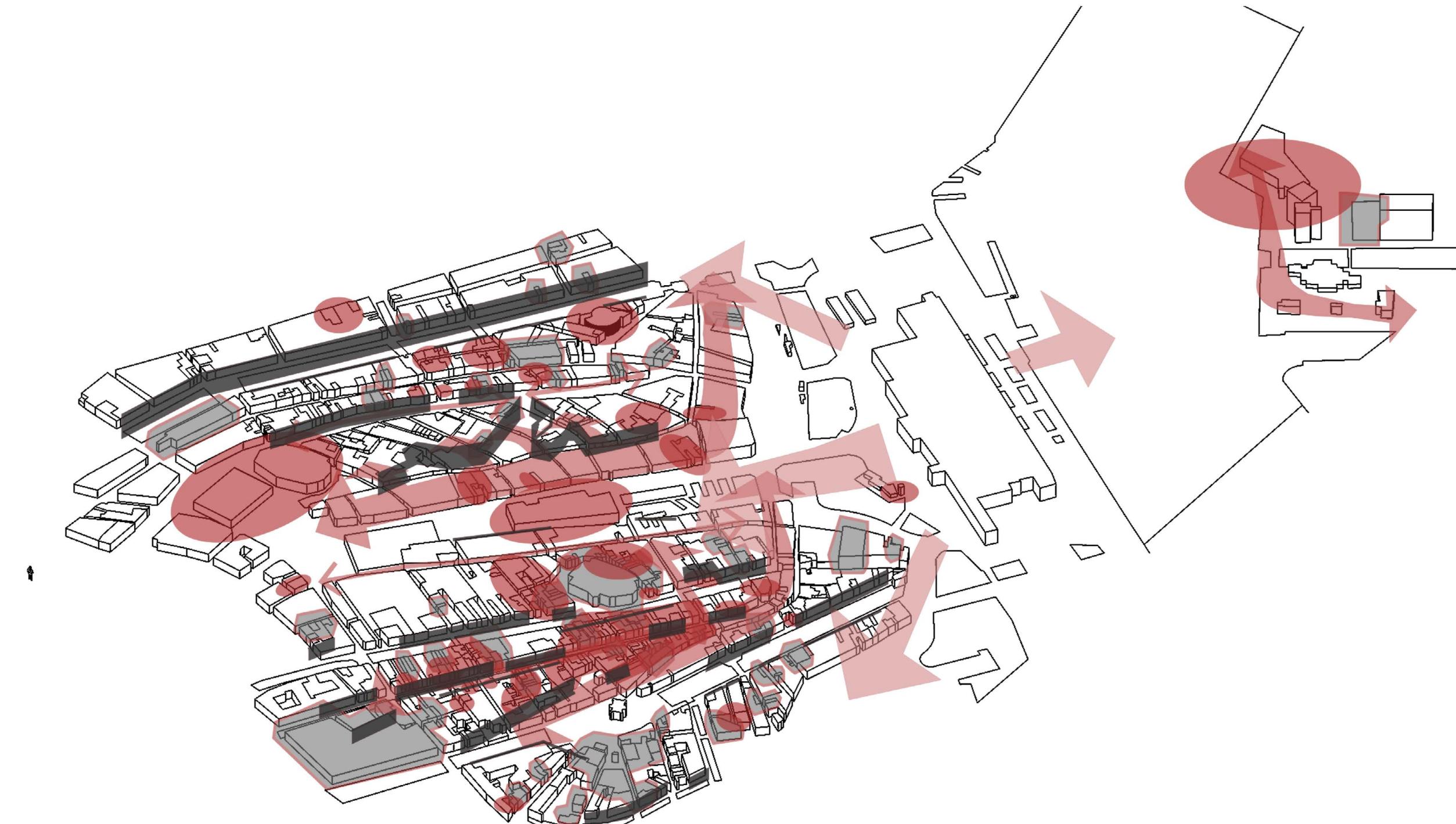


Religion/Education



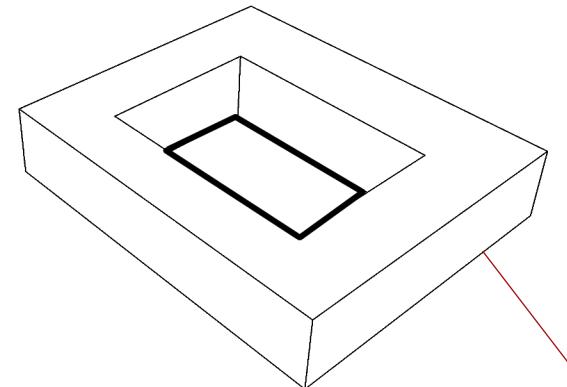
Residential Use

Conclusion

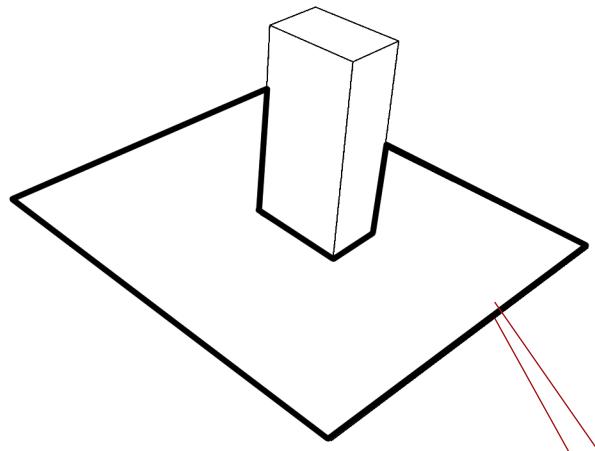


3.4 Squares

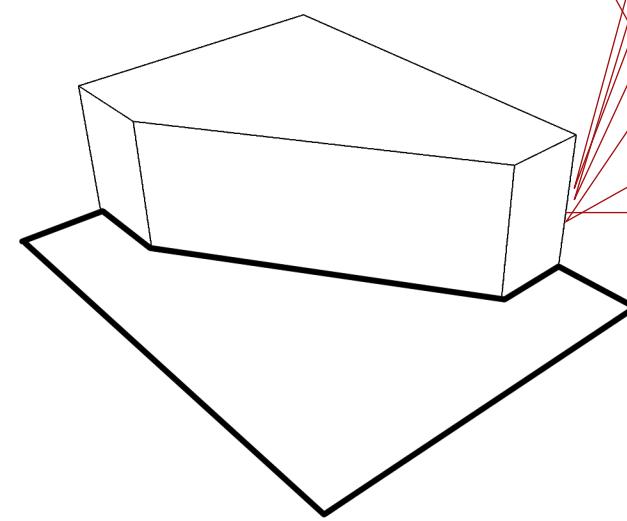
3.4 Typology of Square



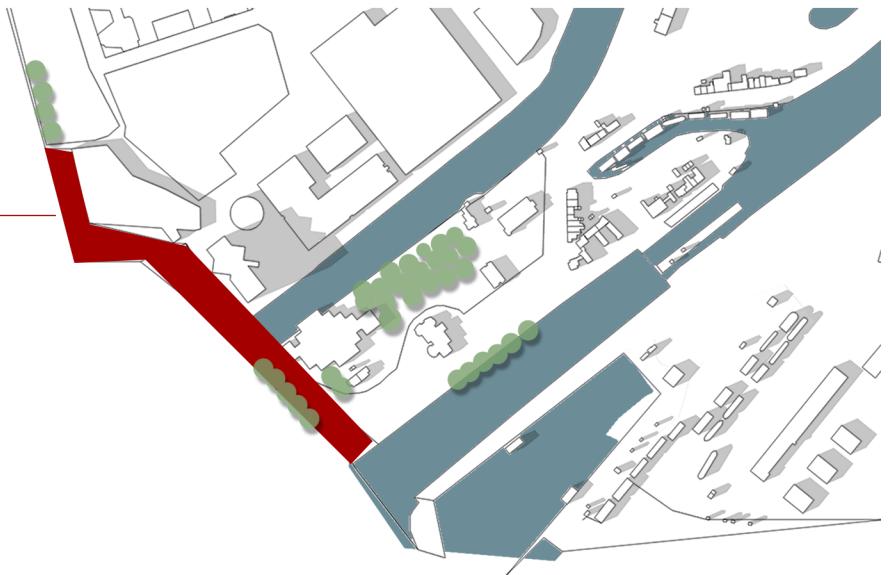
Enclosed Square



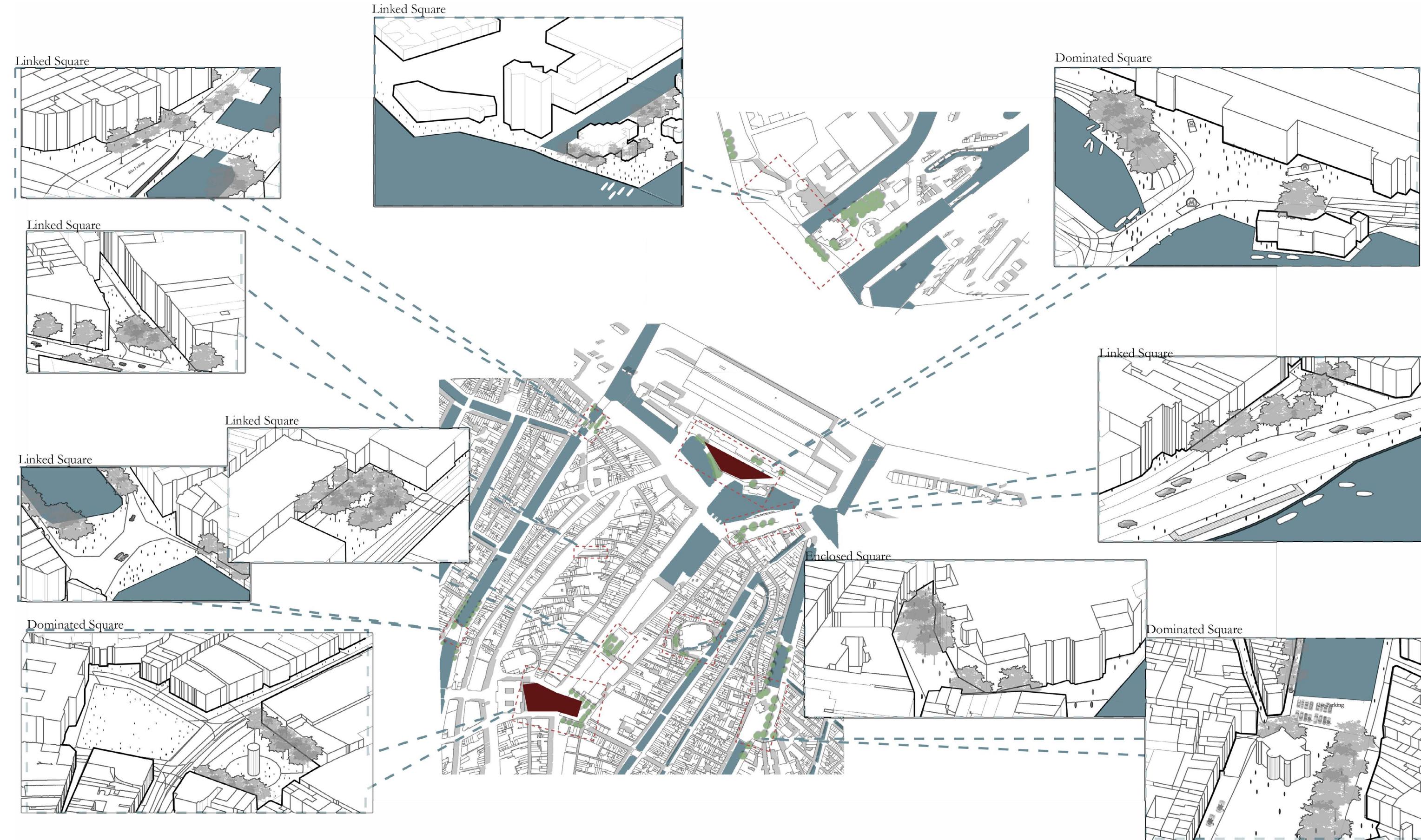
Dominated Square



Linked Square



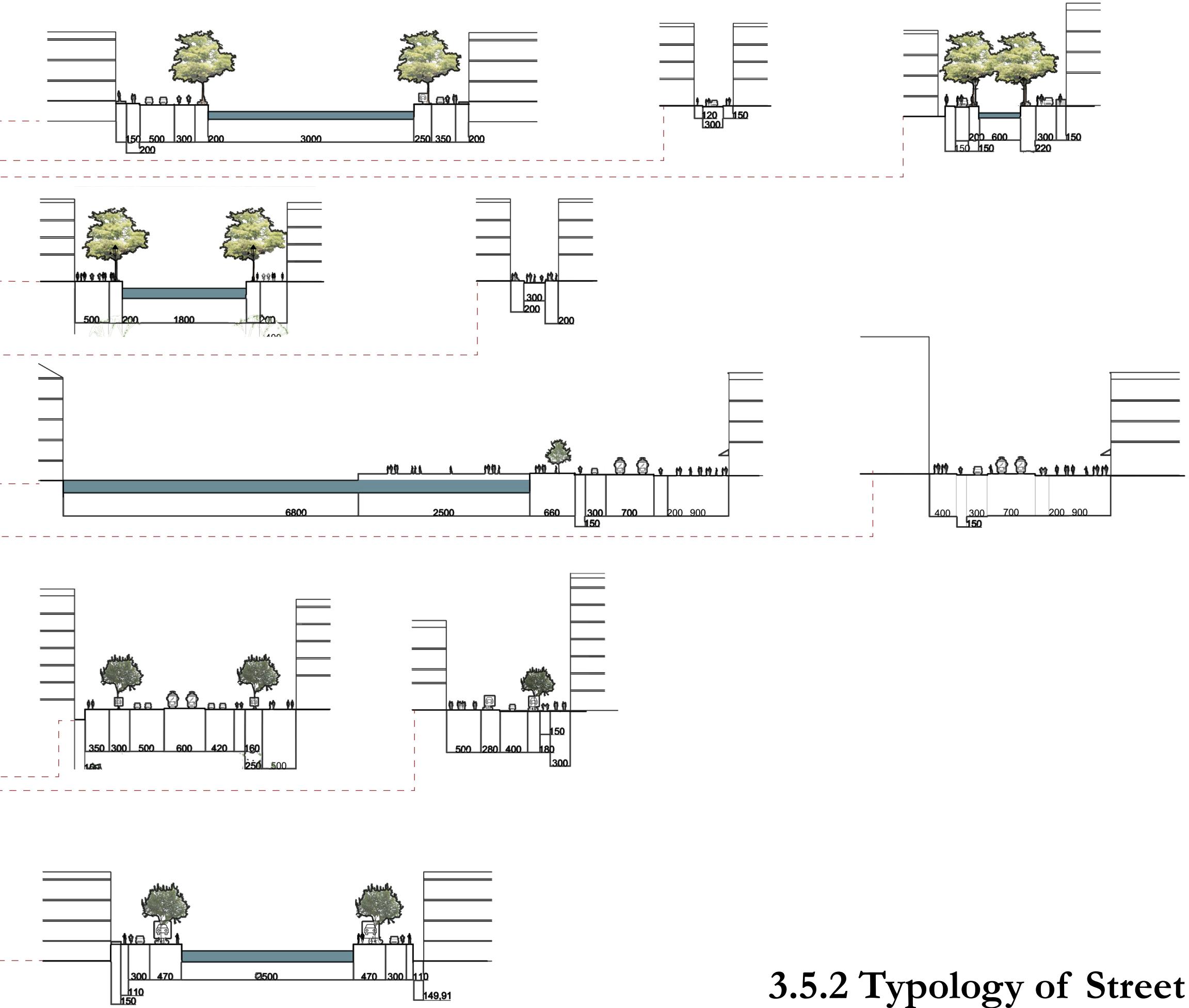
Conclusion



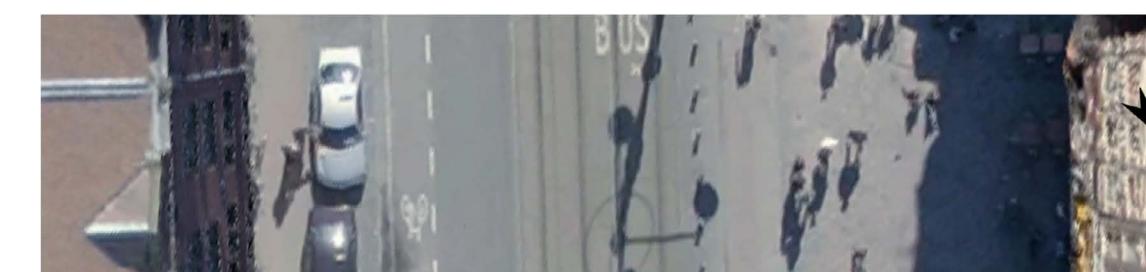
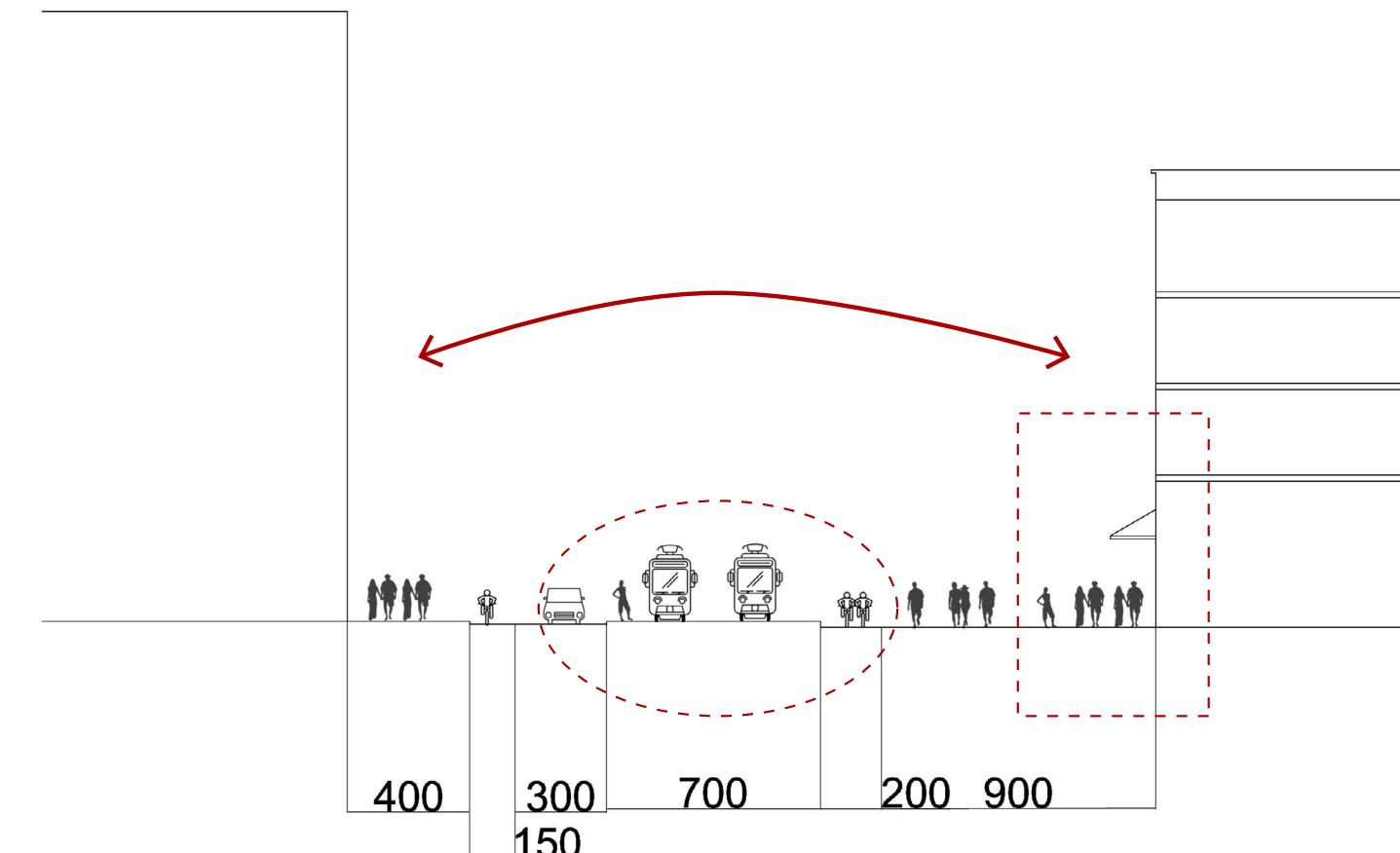
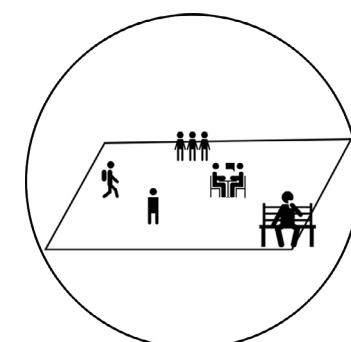
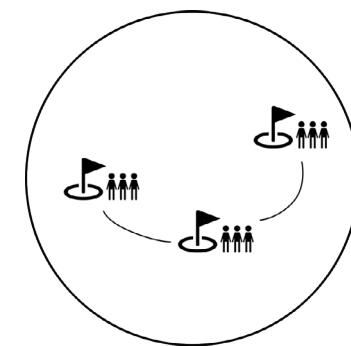
3.5 Street

3.5.1 Street Structure





3.5.2 Typology of Street



3.5.3 Street Traffic Analysis



3.5.4 Horizontal Alley Analysis



Residential are & Commercial area



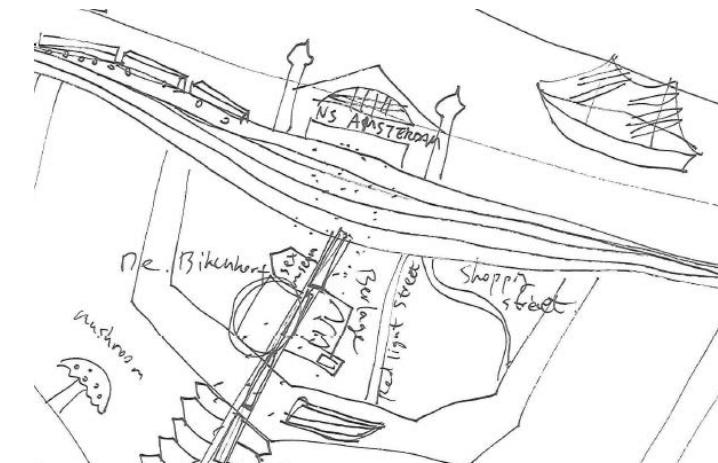
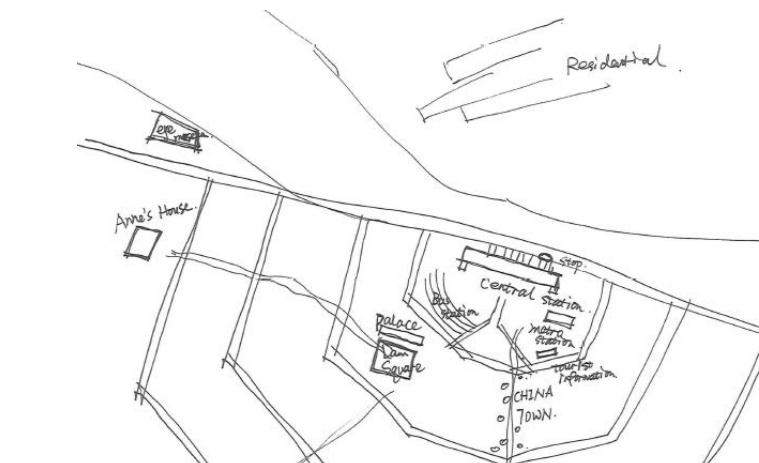
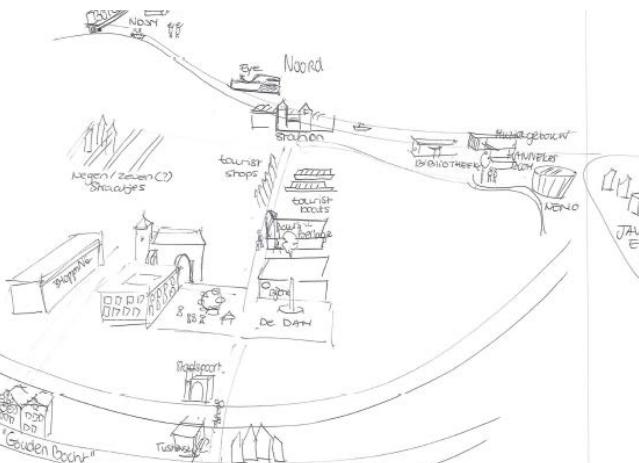
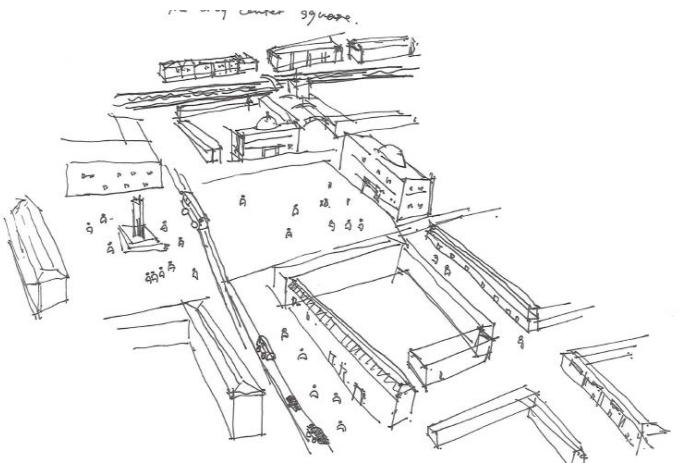
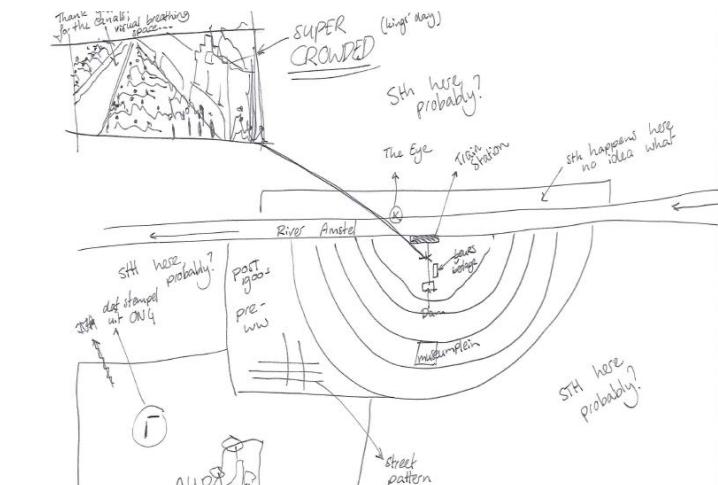
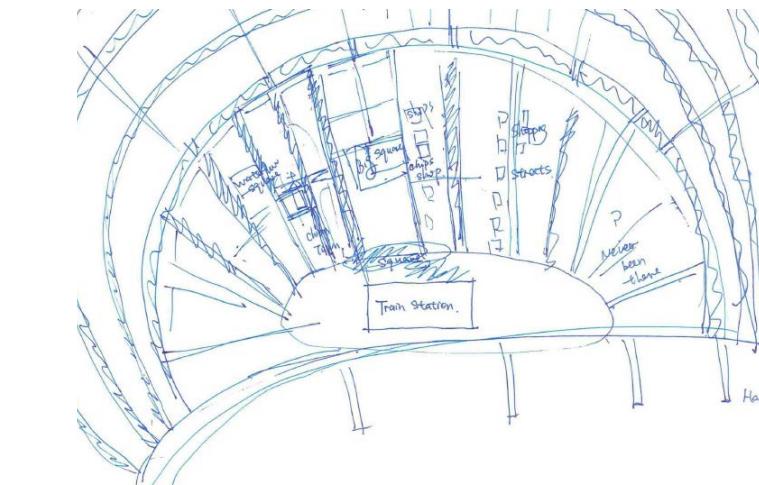
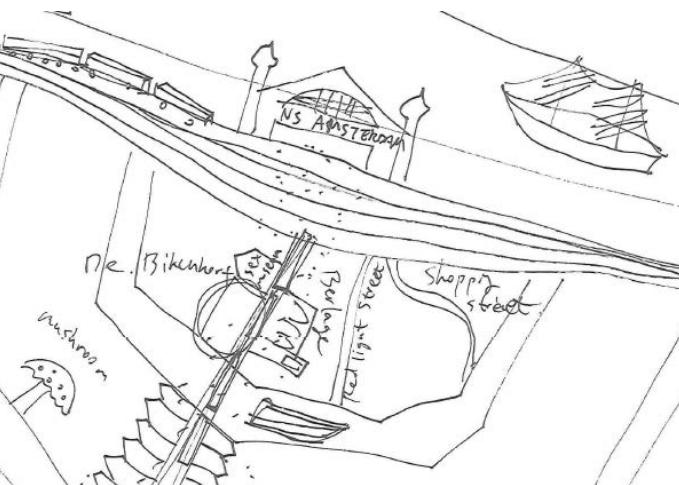
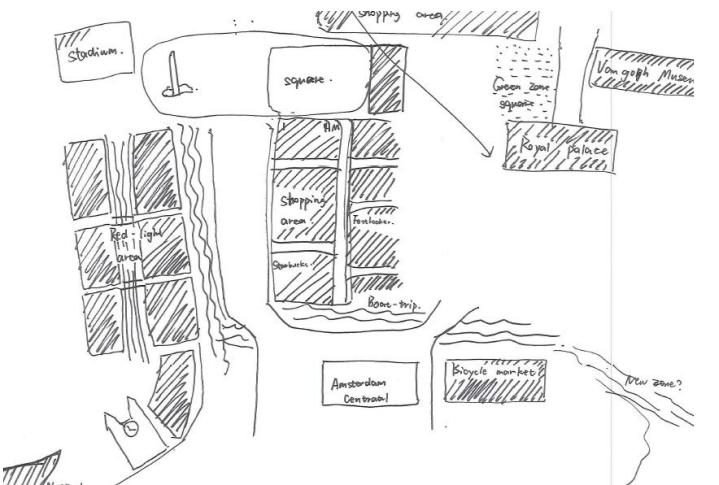
Main Street & Local Street



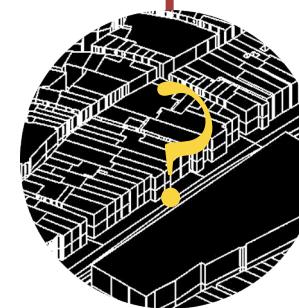
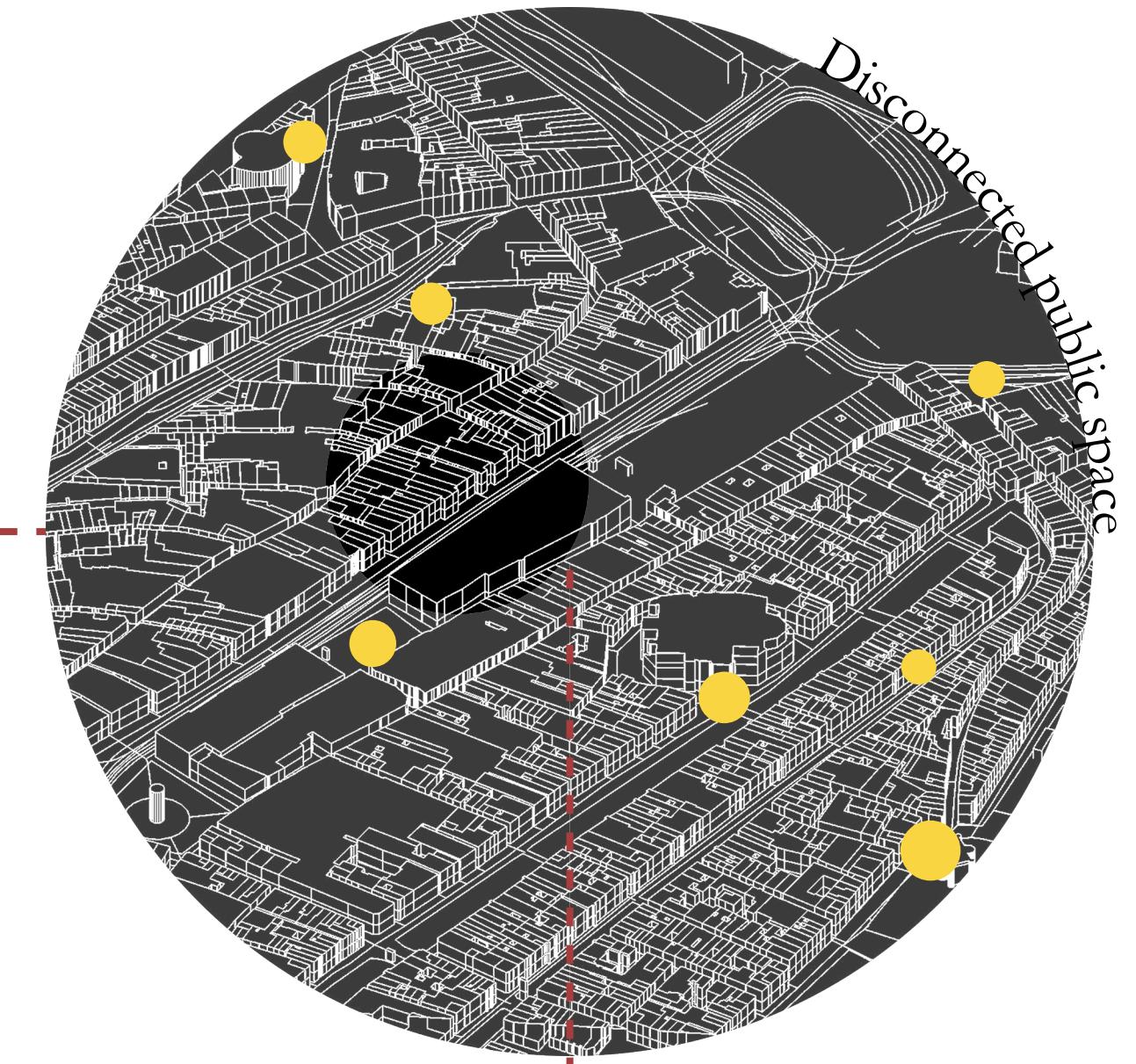
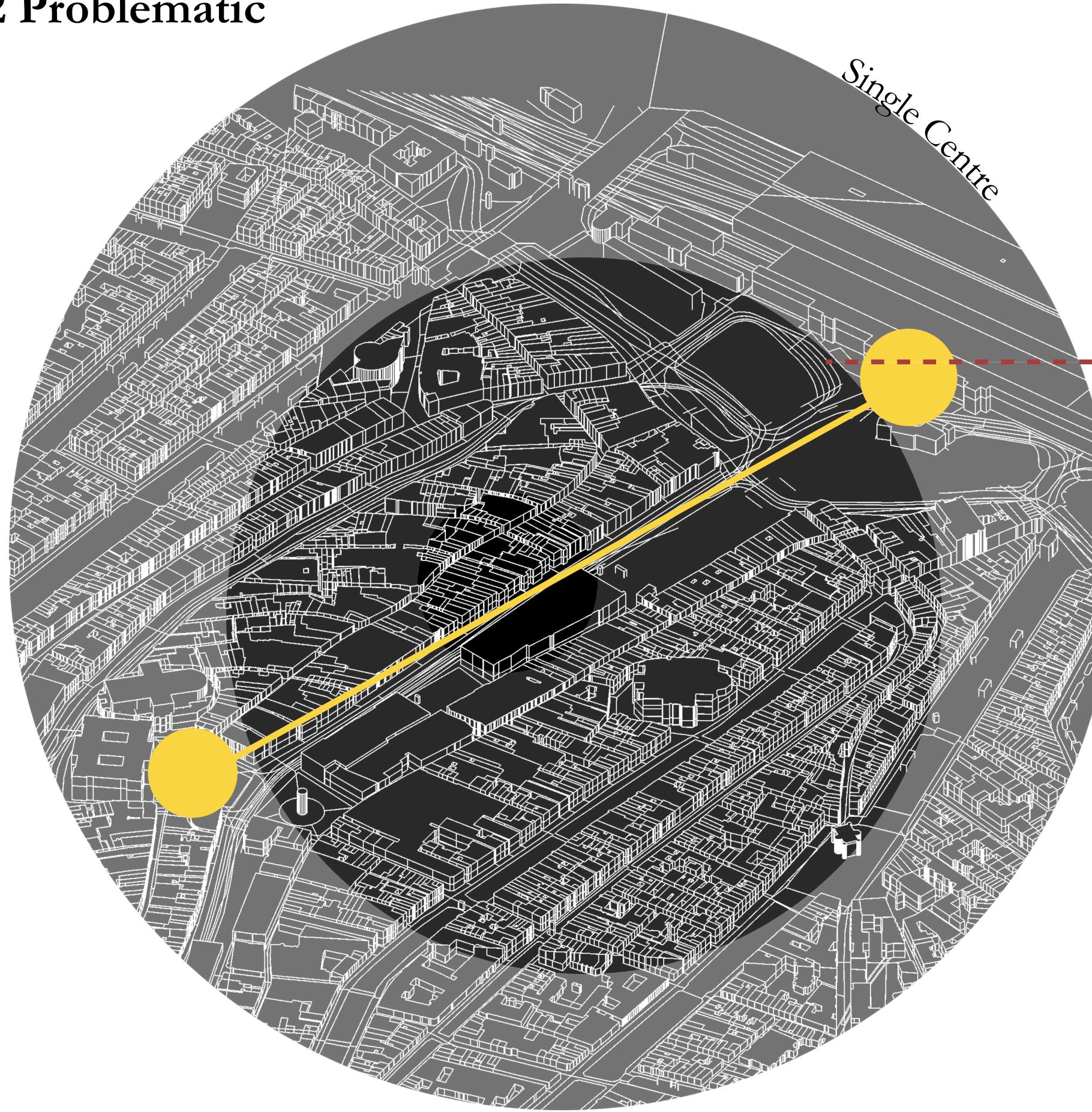
Commercial area & Commercial area

3.6 Conclusion

3.6.1 Mental Map



3.6.2 Problematic



3.7 People Analysis

4.1 Purposes

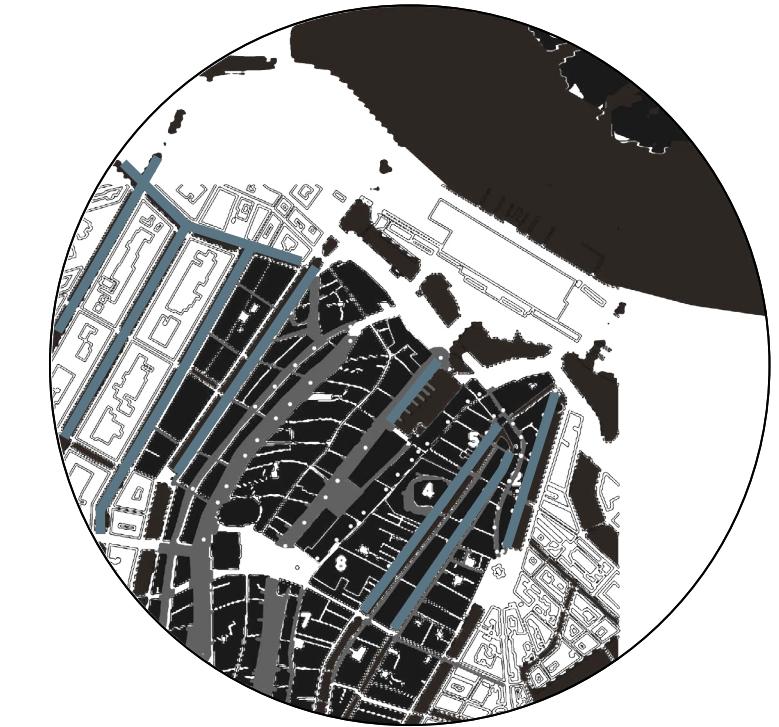
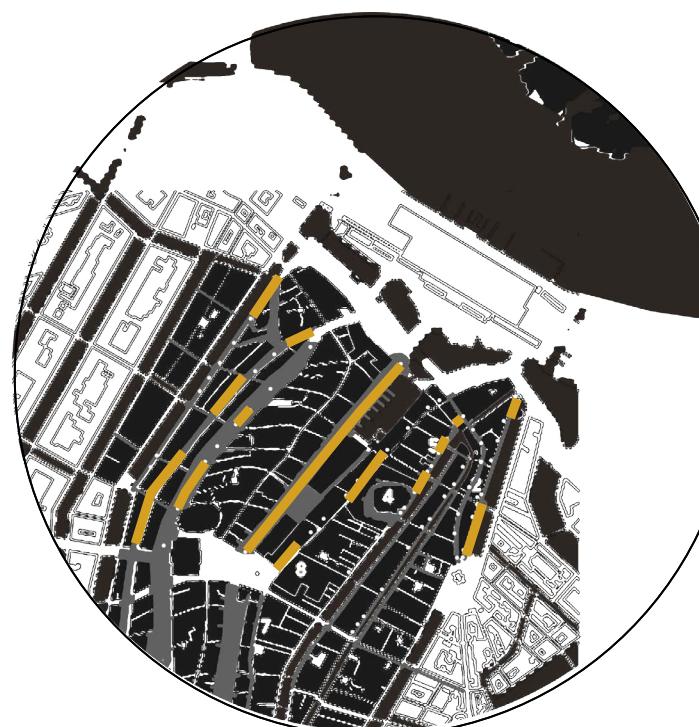
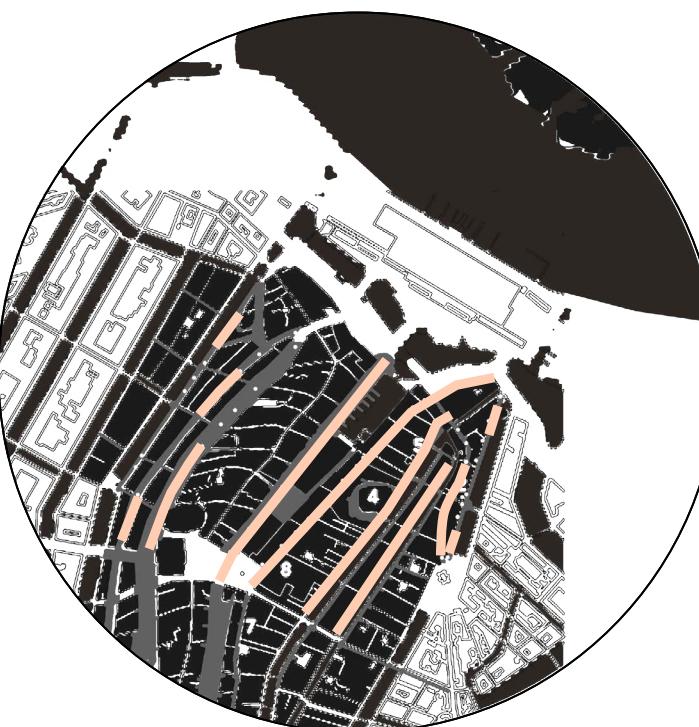


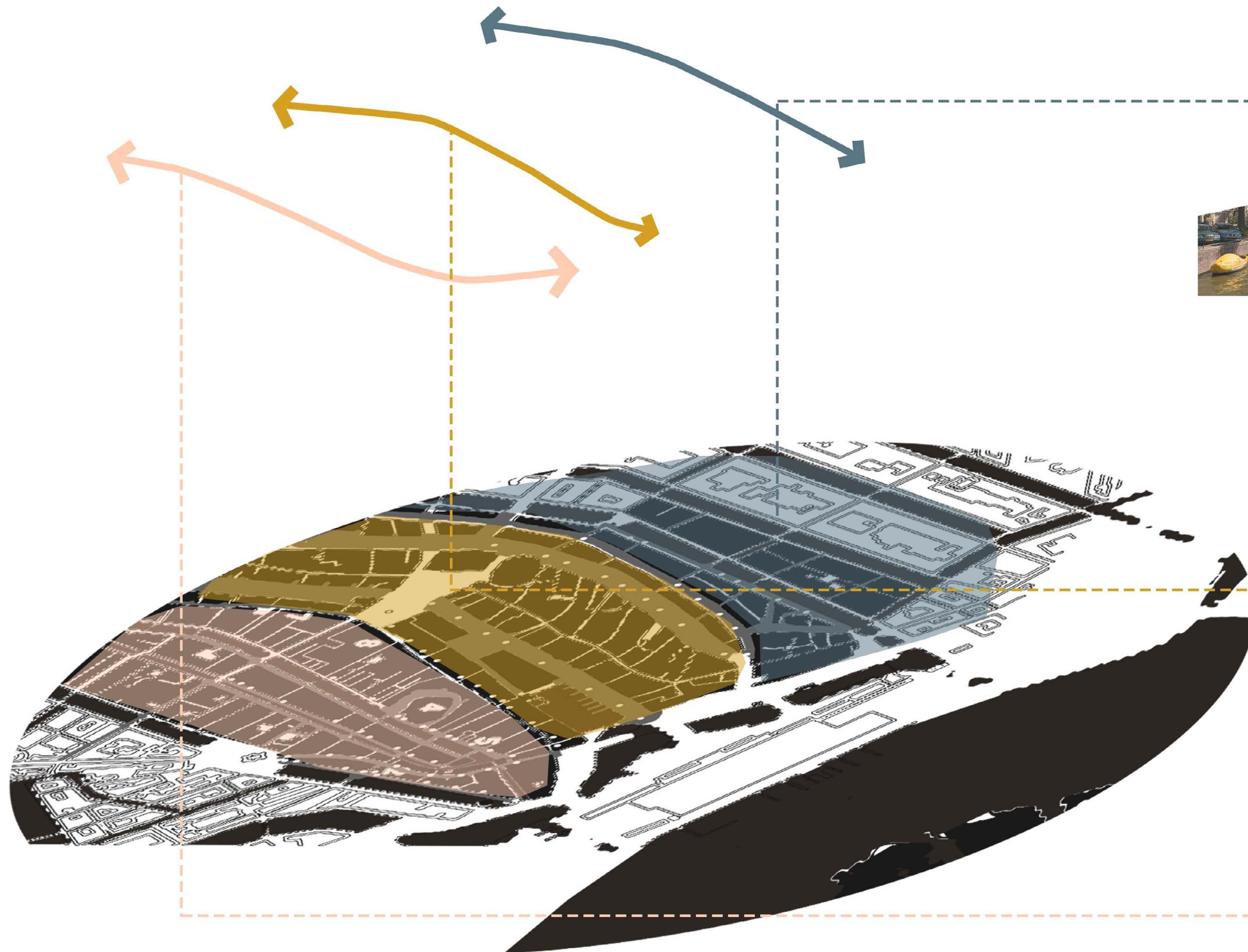
What attracts you to go to Amsterdam?

Architecture
Canals
landscape culture Events
Diversity Museums
People
Museum
Citylife Atmosphere Shops
Liberalism
Social Food History
Cannabis Water
Urban Concerts



4.2 Urban Partition





Canal Area

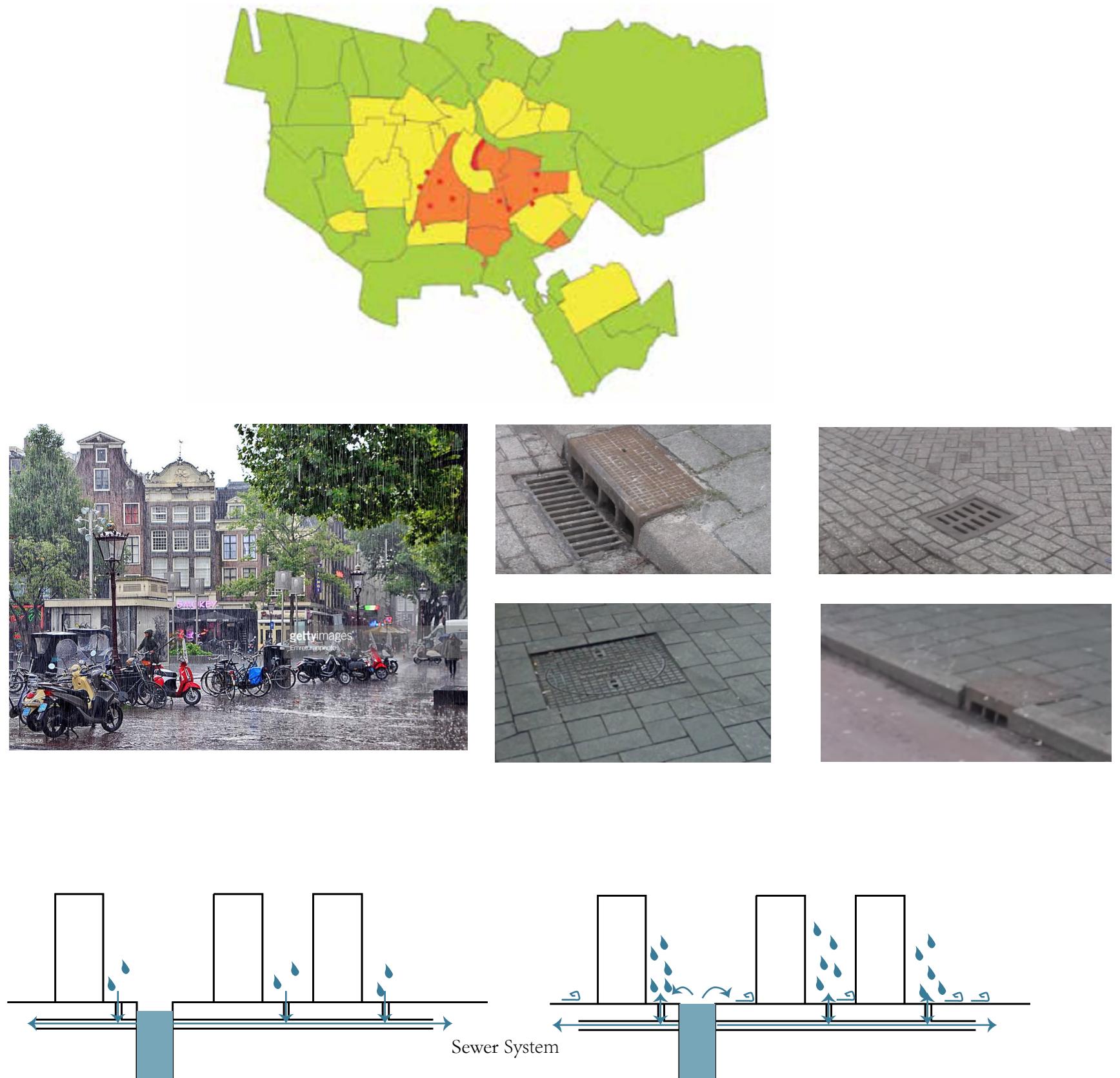


Urban Boulevard



Old City

3.8 Flood Risk Analysis

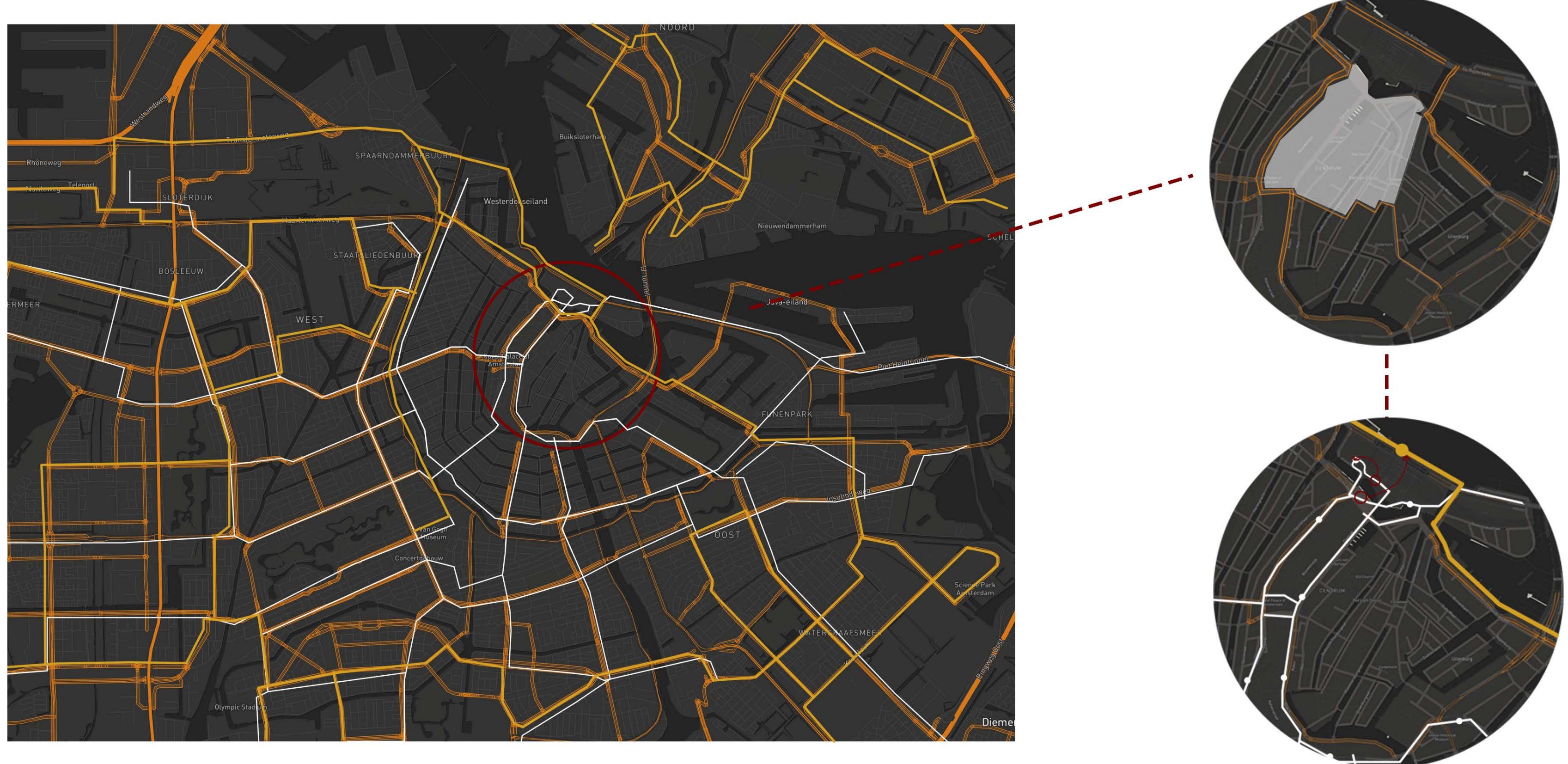


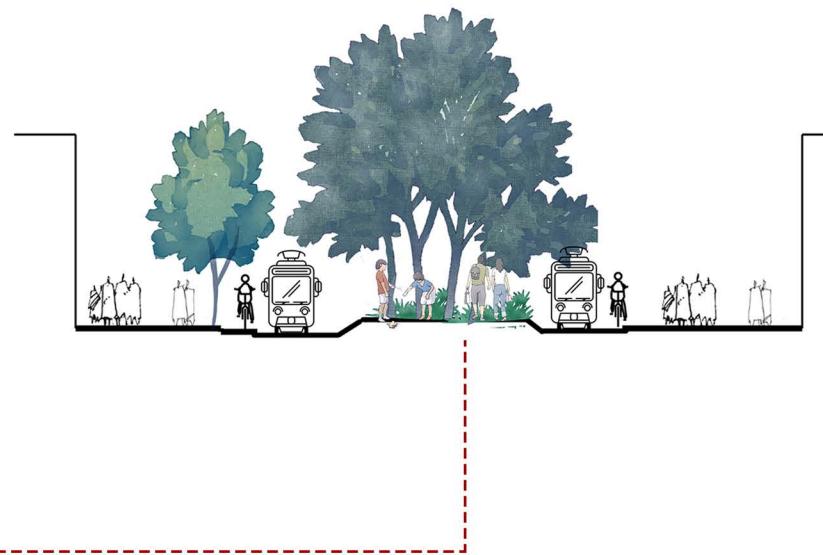
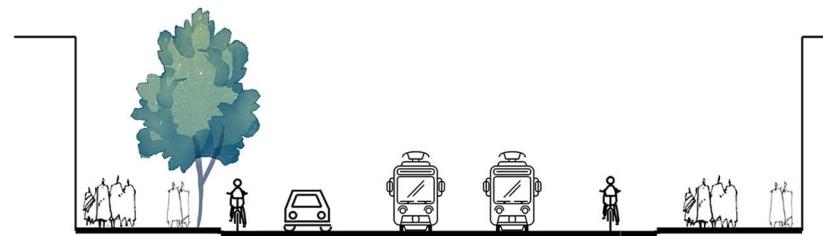


4. Structural Proposal

4.1 The Flow of Traffic

4.1.1 Reorganize the public transportation





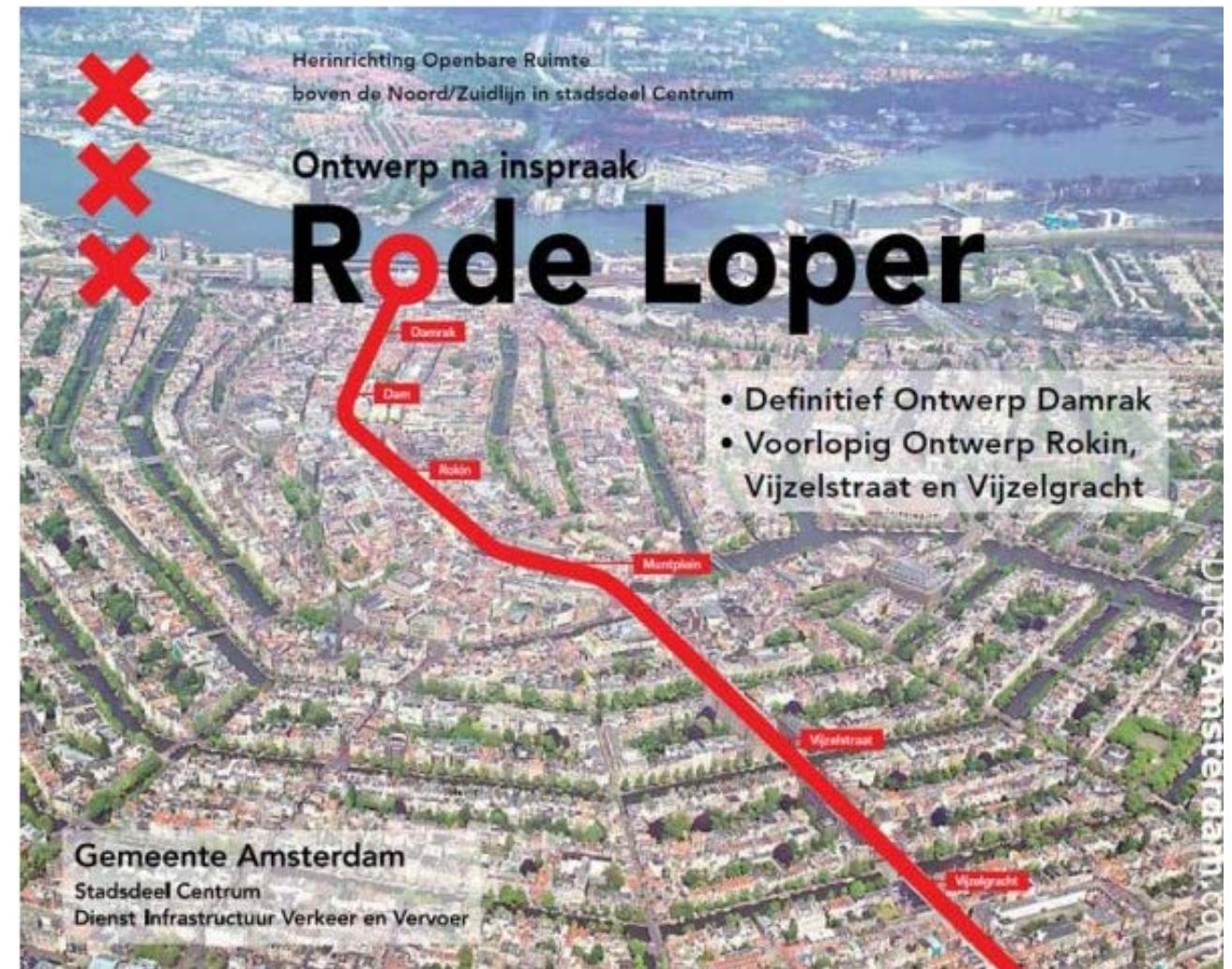
4.1.2.1 Red Carpet



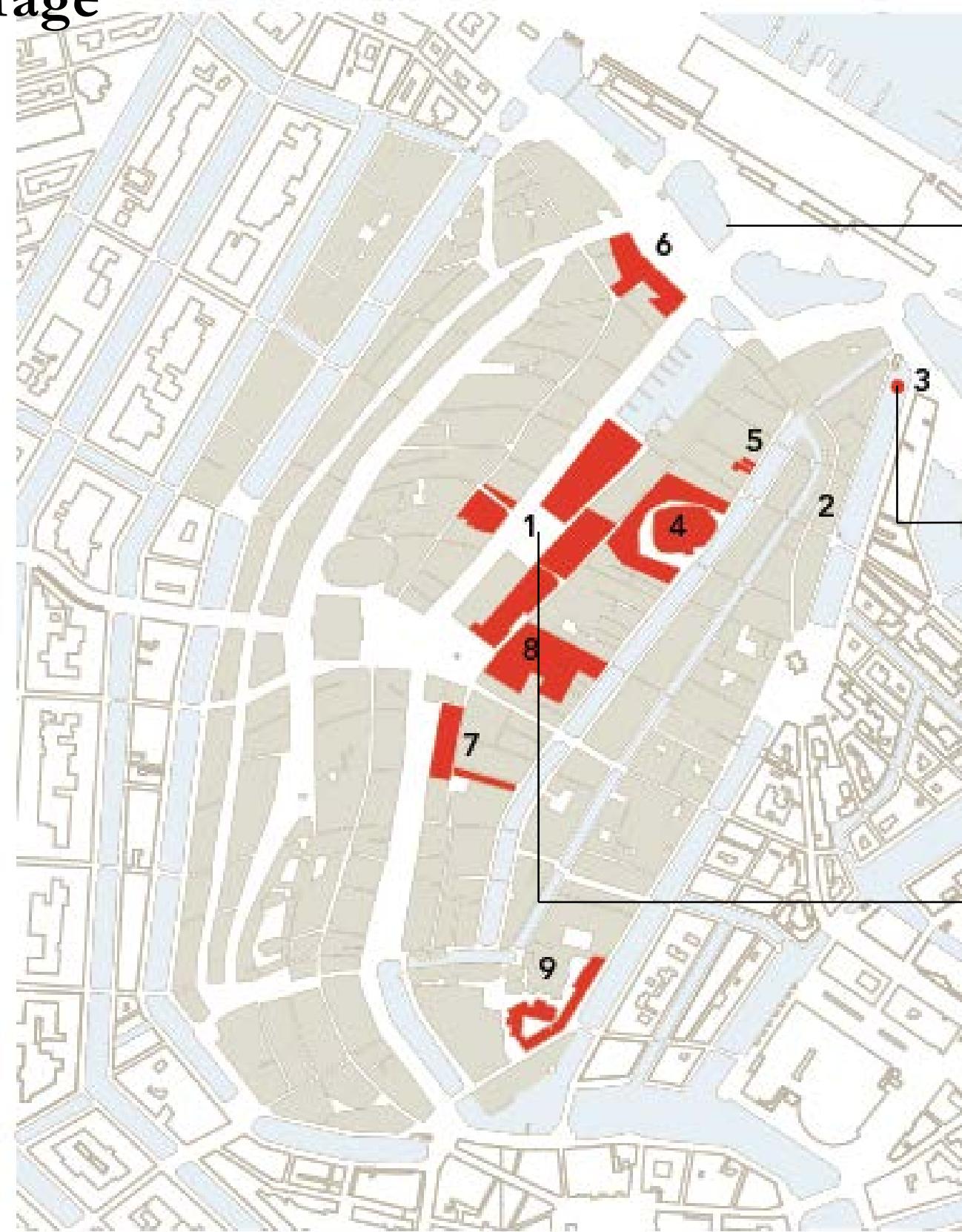
Municipality of Amsterdam

Project: Red Carpet

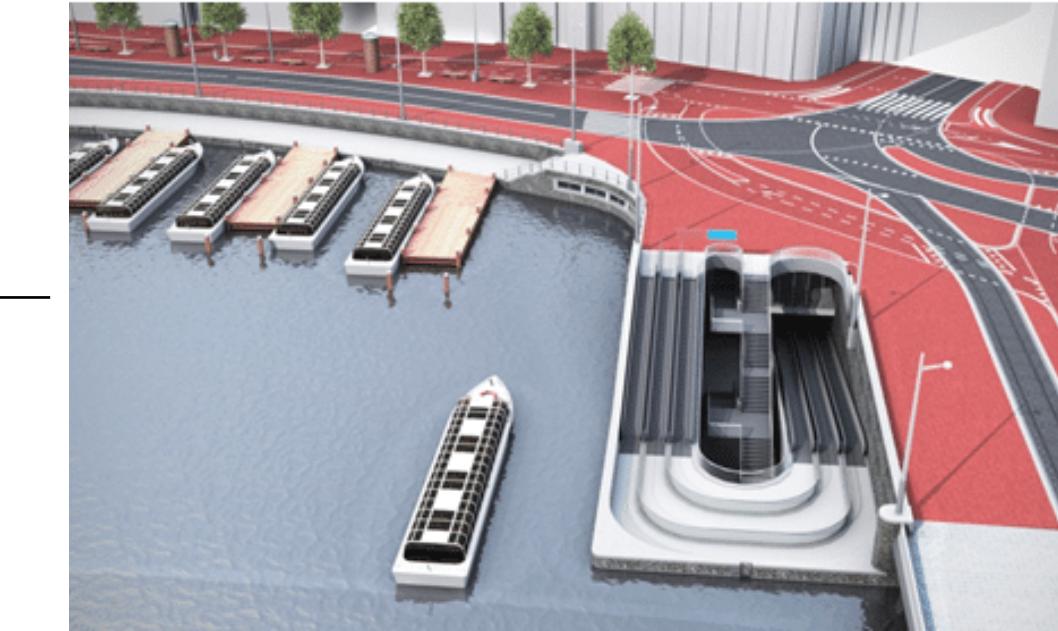
Source: <https://www.amsterdam.nl/projecten/rodeloper/>



4.1.2.2 Bike Storage



Nine key projects



Parking Garage

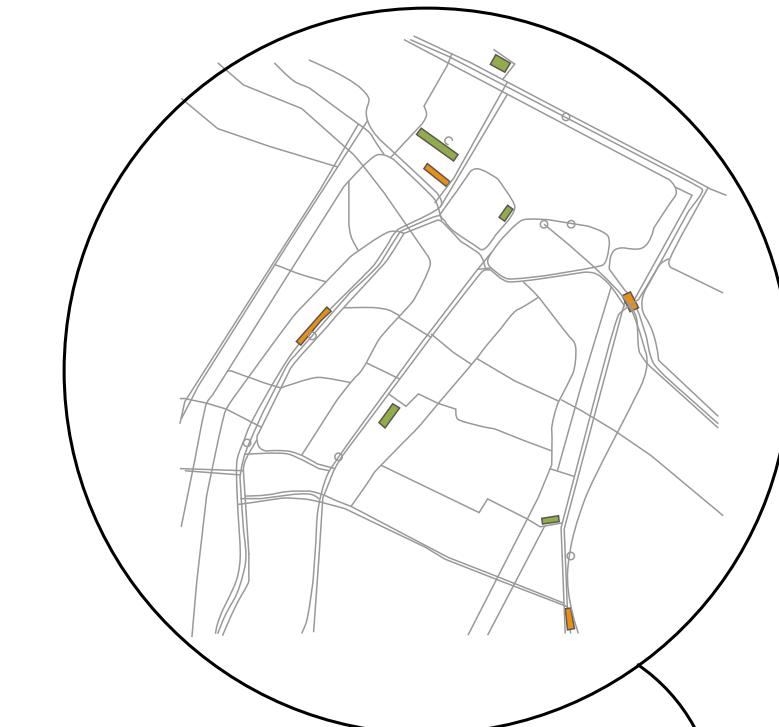
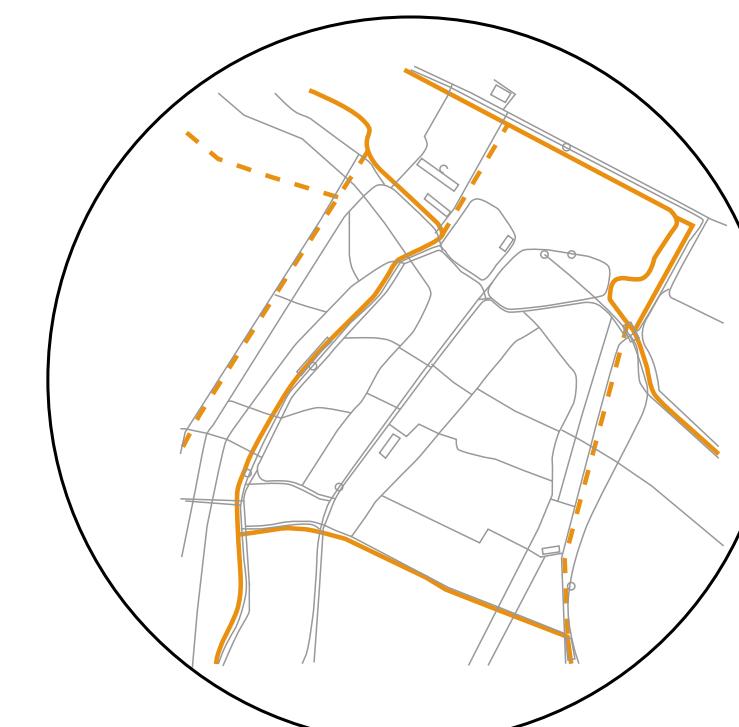
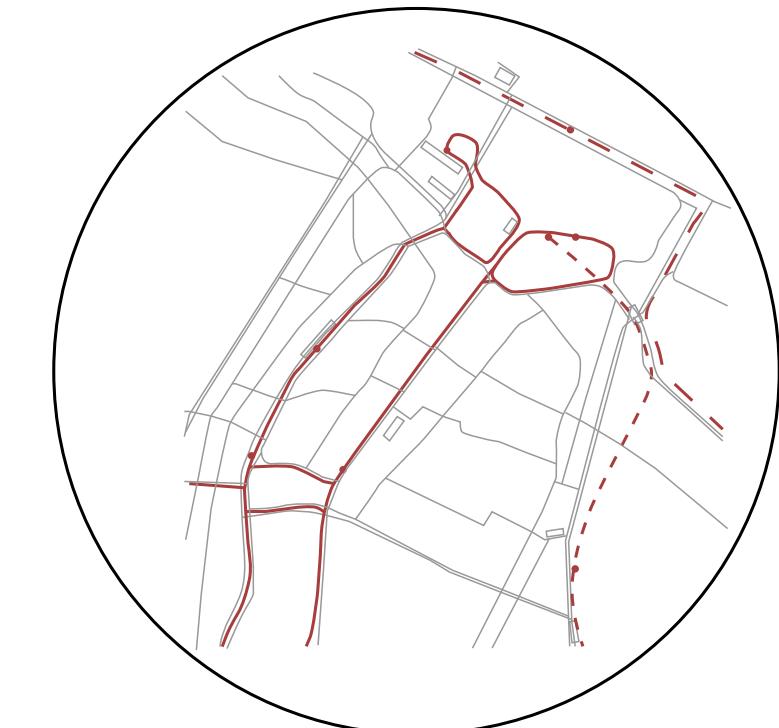
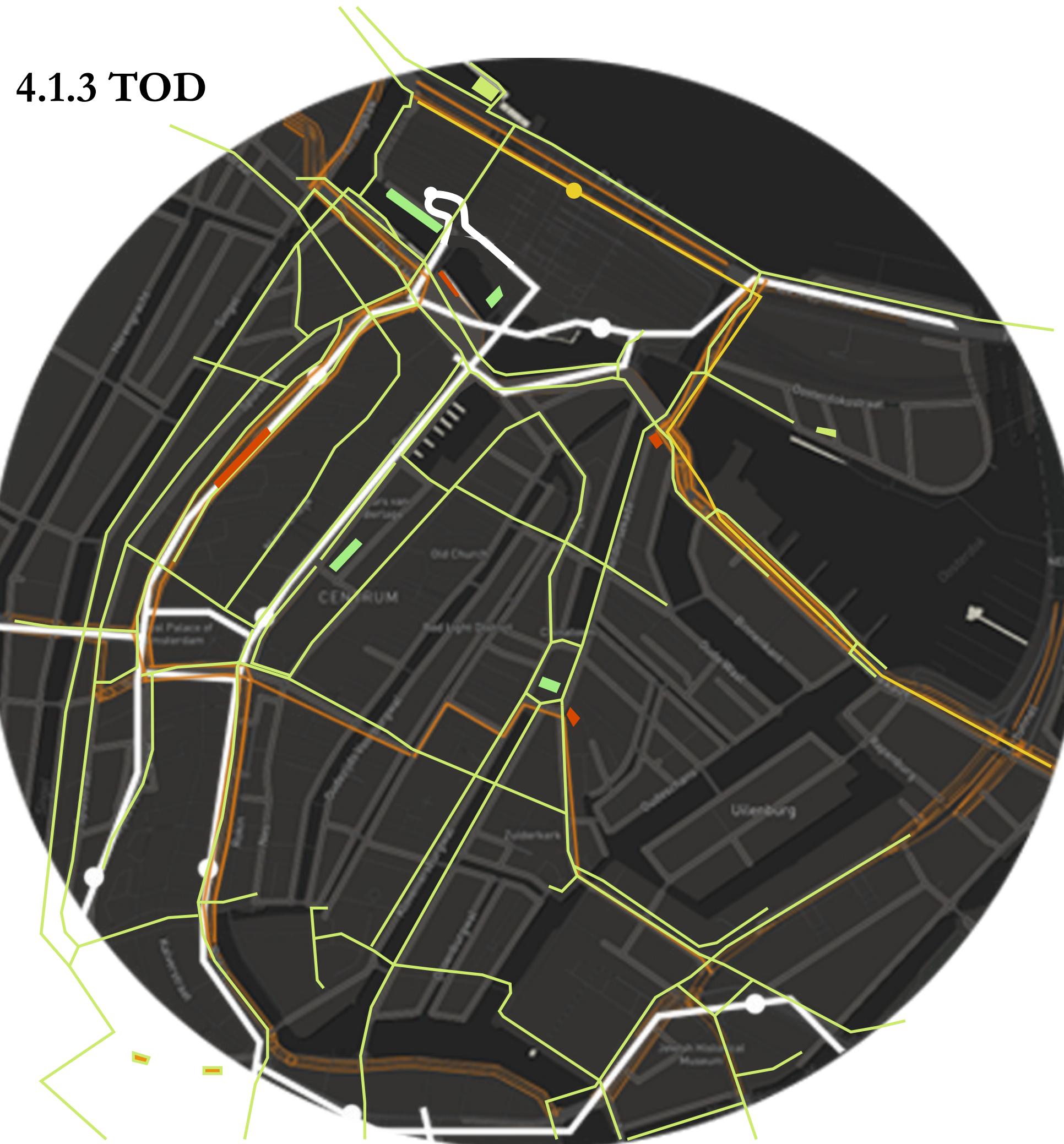


Underground Bike Parking

Municipality of Amsterdam

Project: Project 1020

Source: <https://www.amsterdam.nl/projecten/project-1012/>

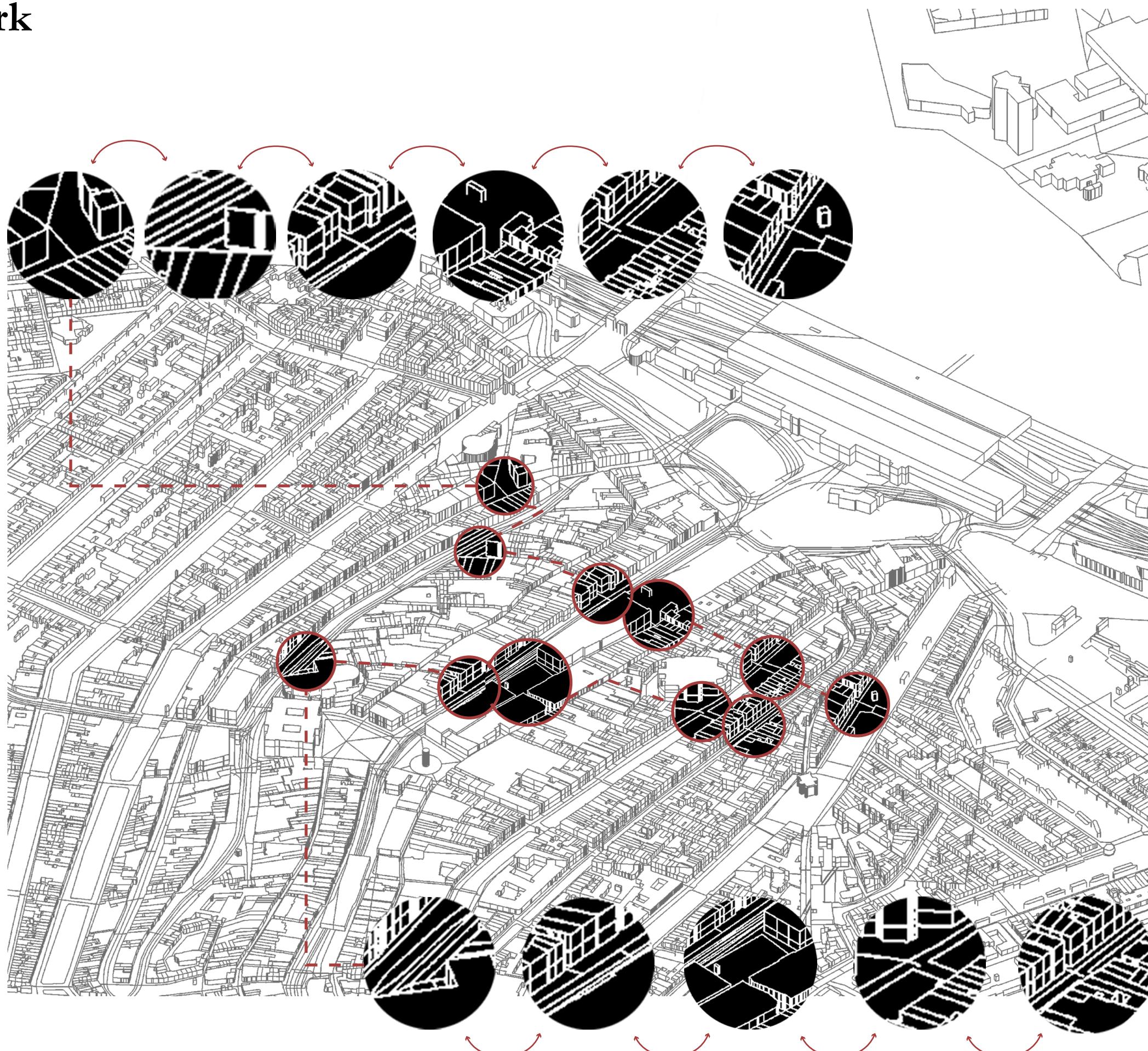


4.2 The Flow of People

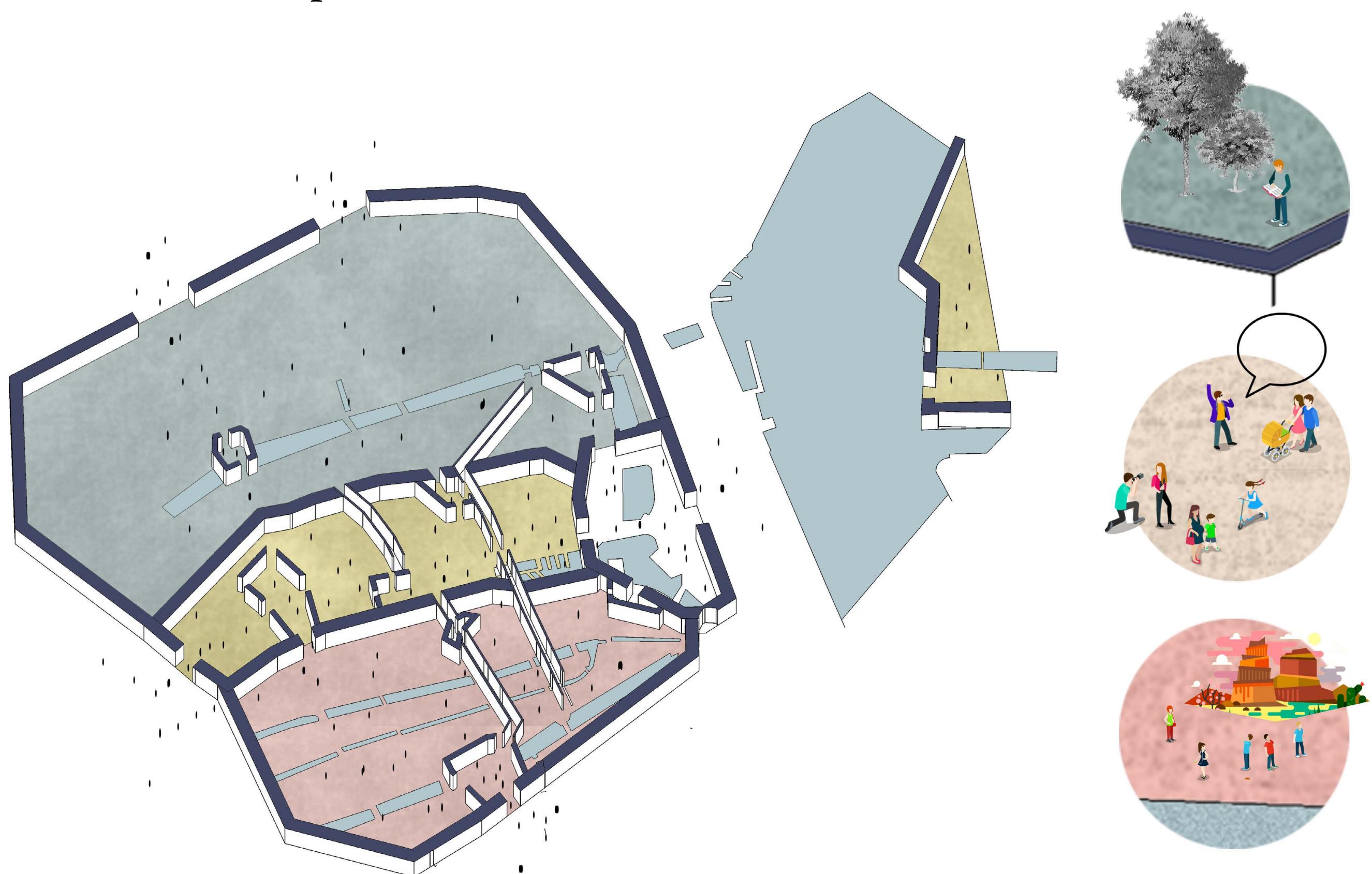
4.2.1 Internal Public Space

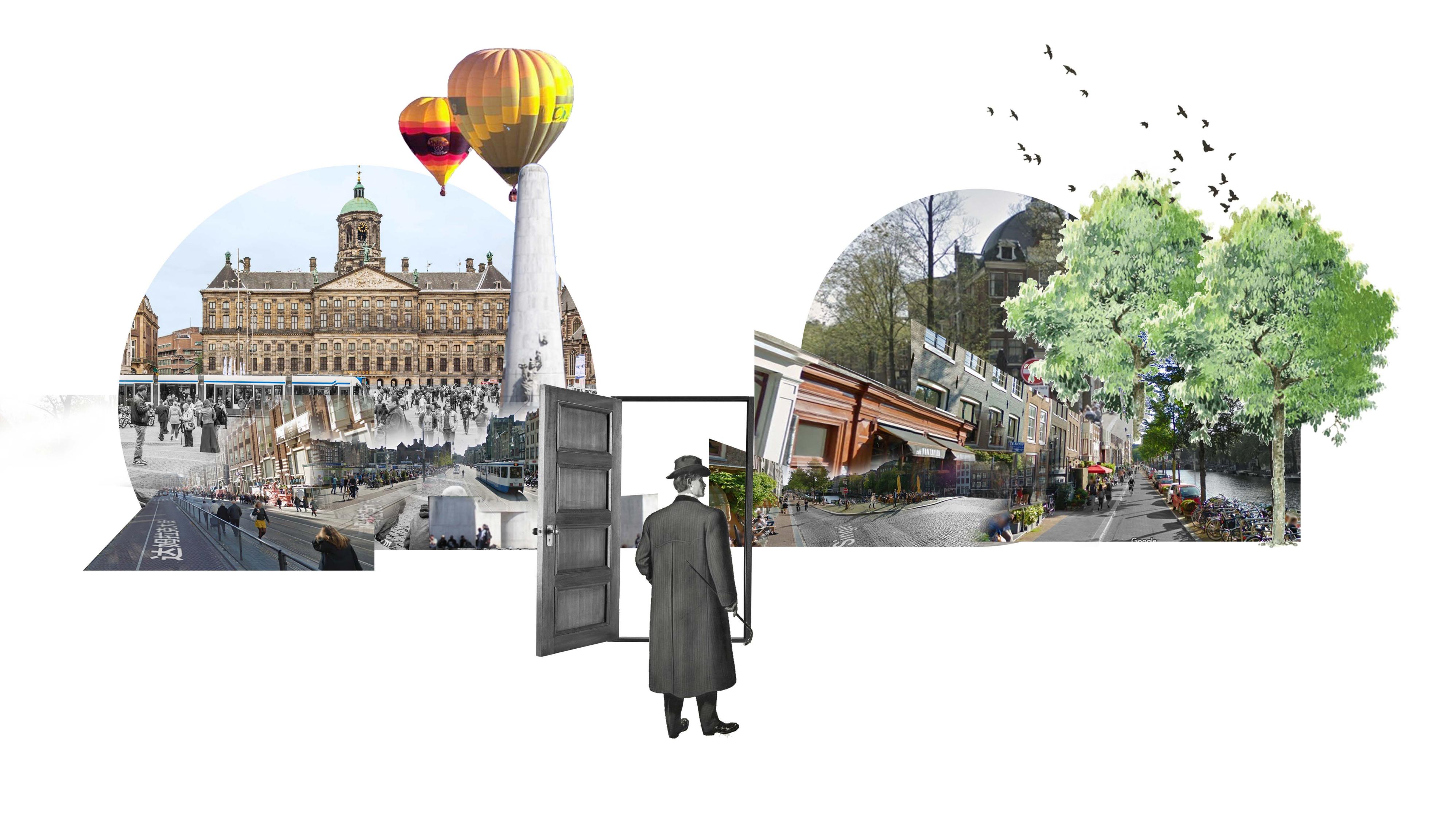


4.2.2 Internal Network

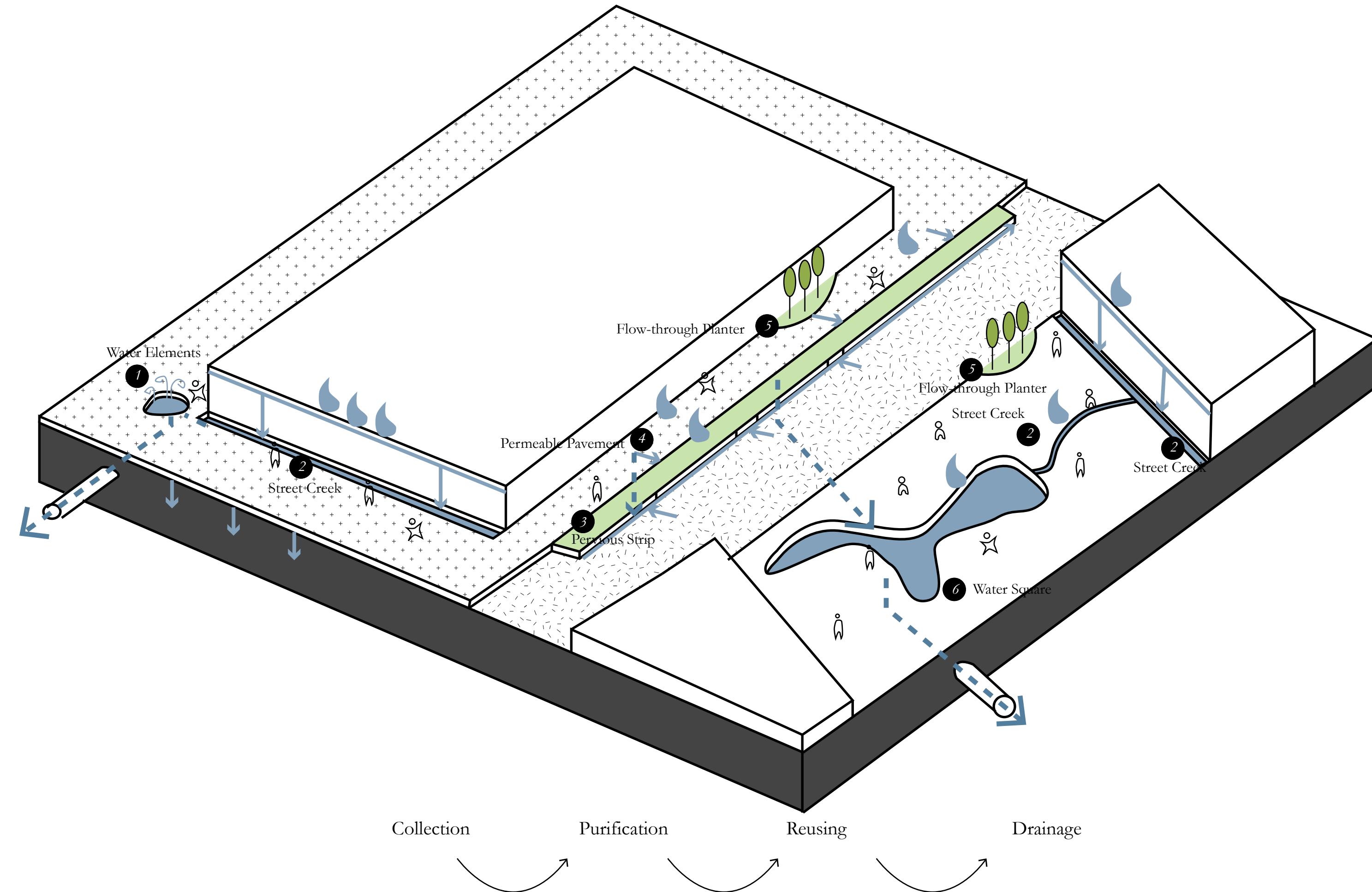


4.2.3 People Movement Concept





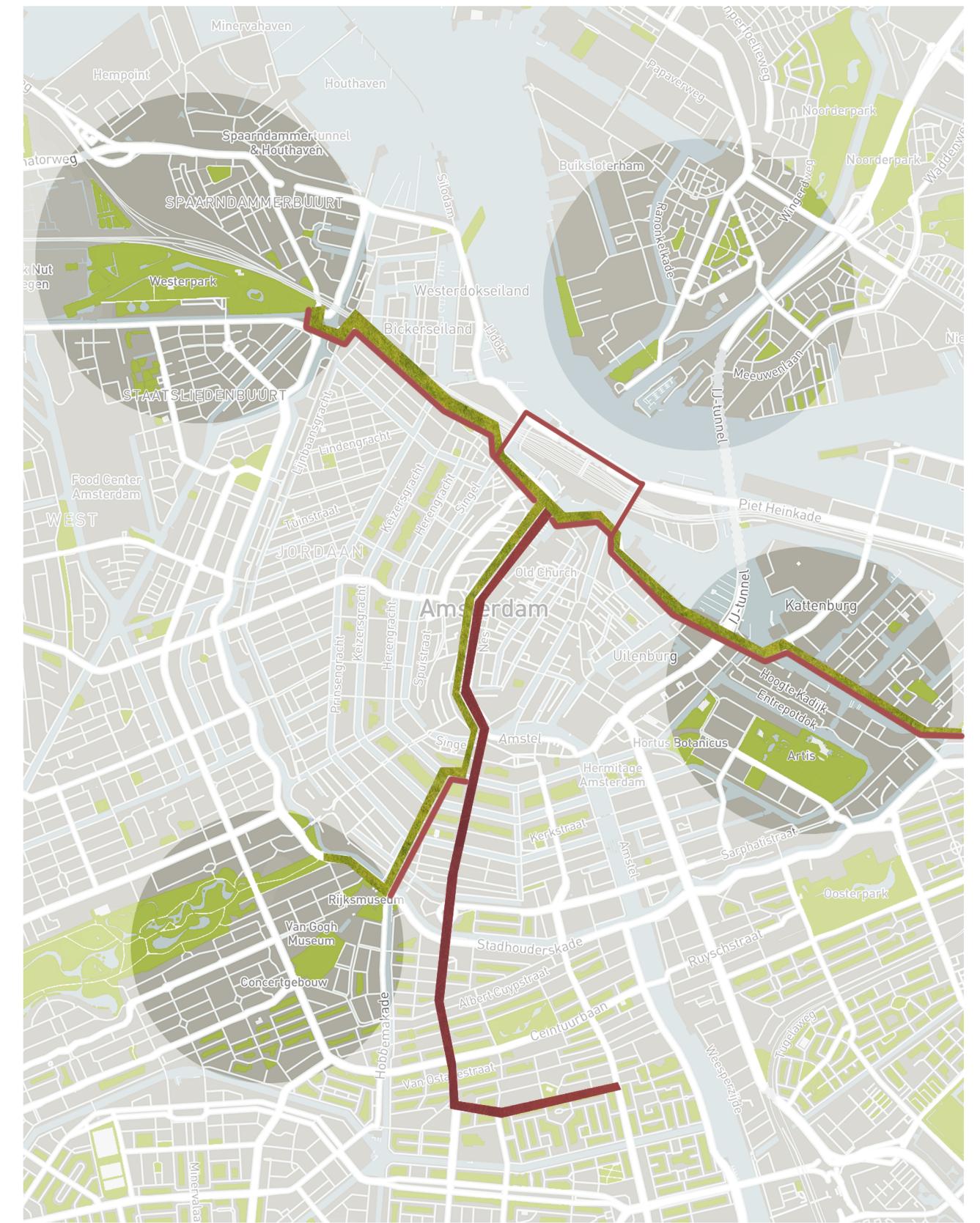
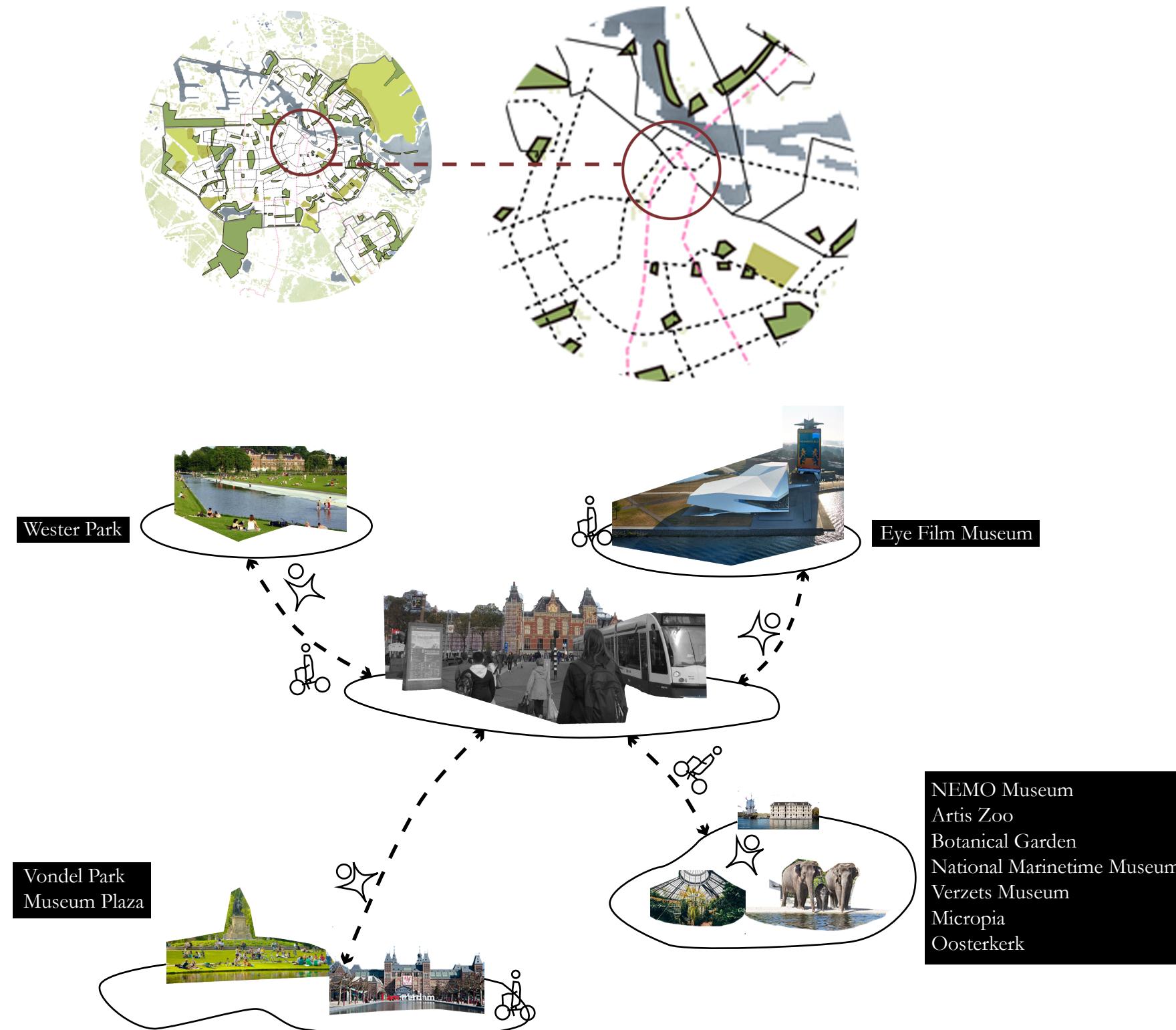
4.3 The Flow of Water



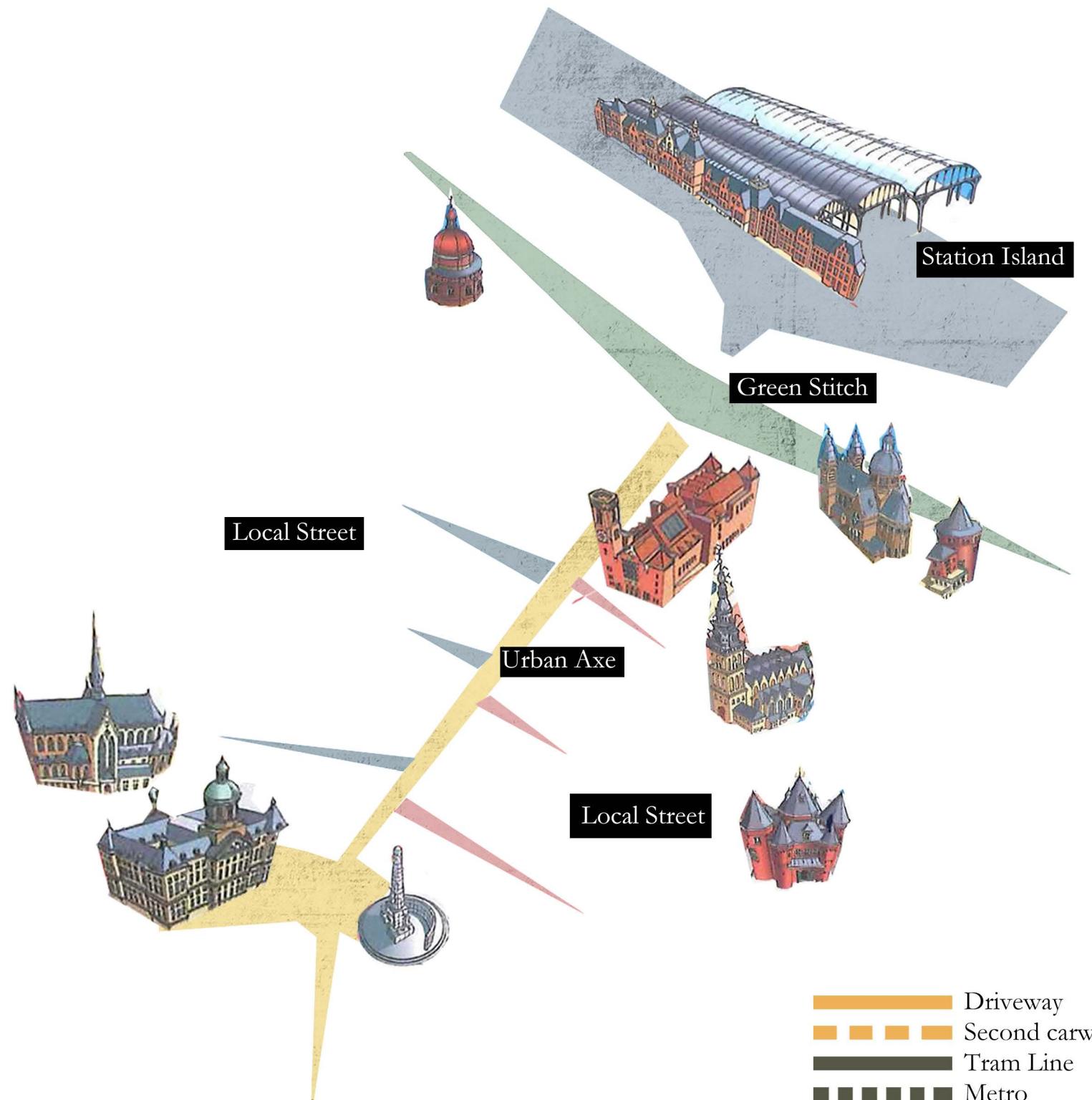


5. Structure Application

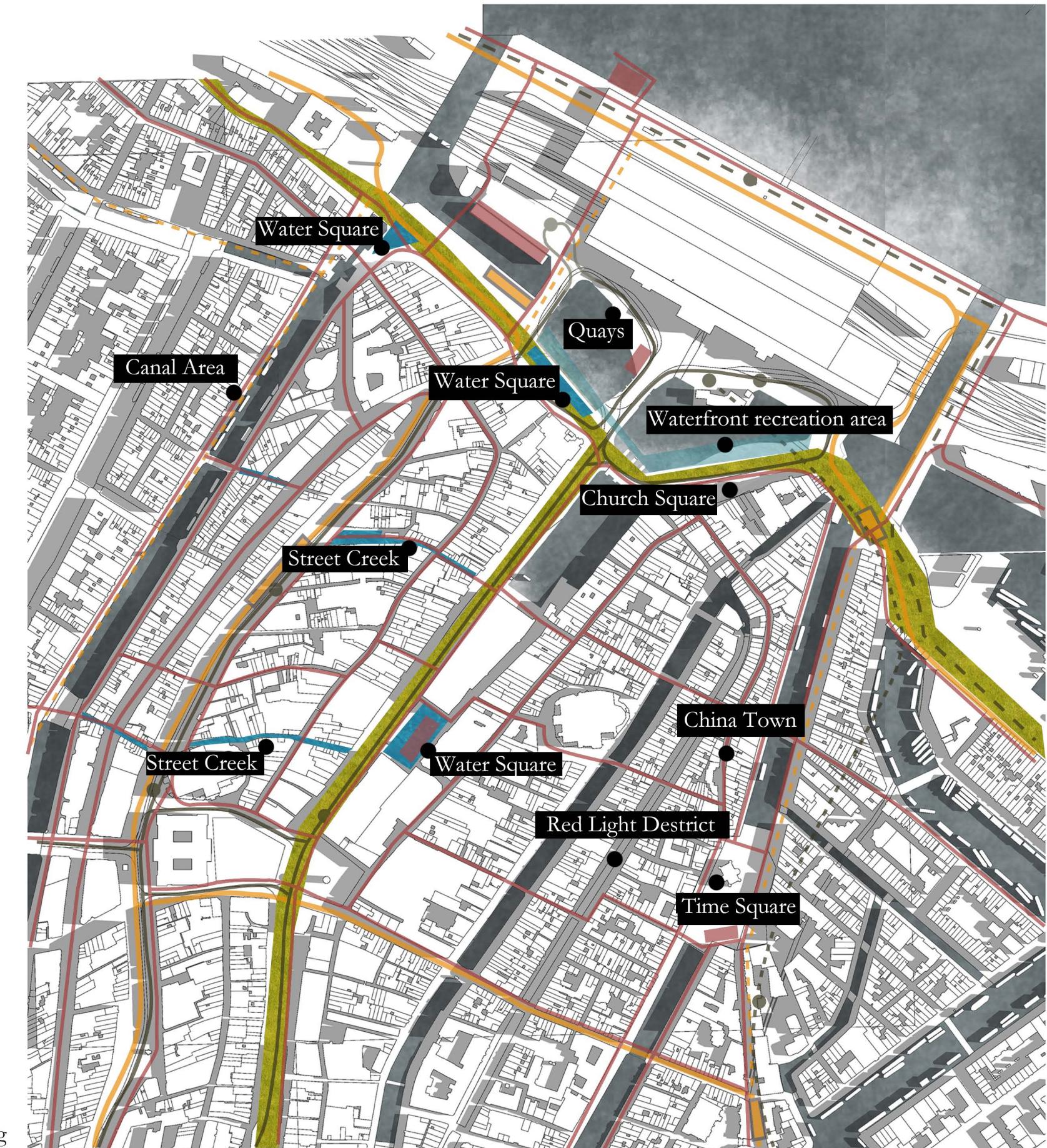
5.1 Large Scale



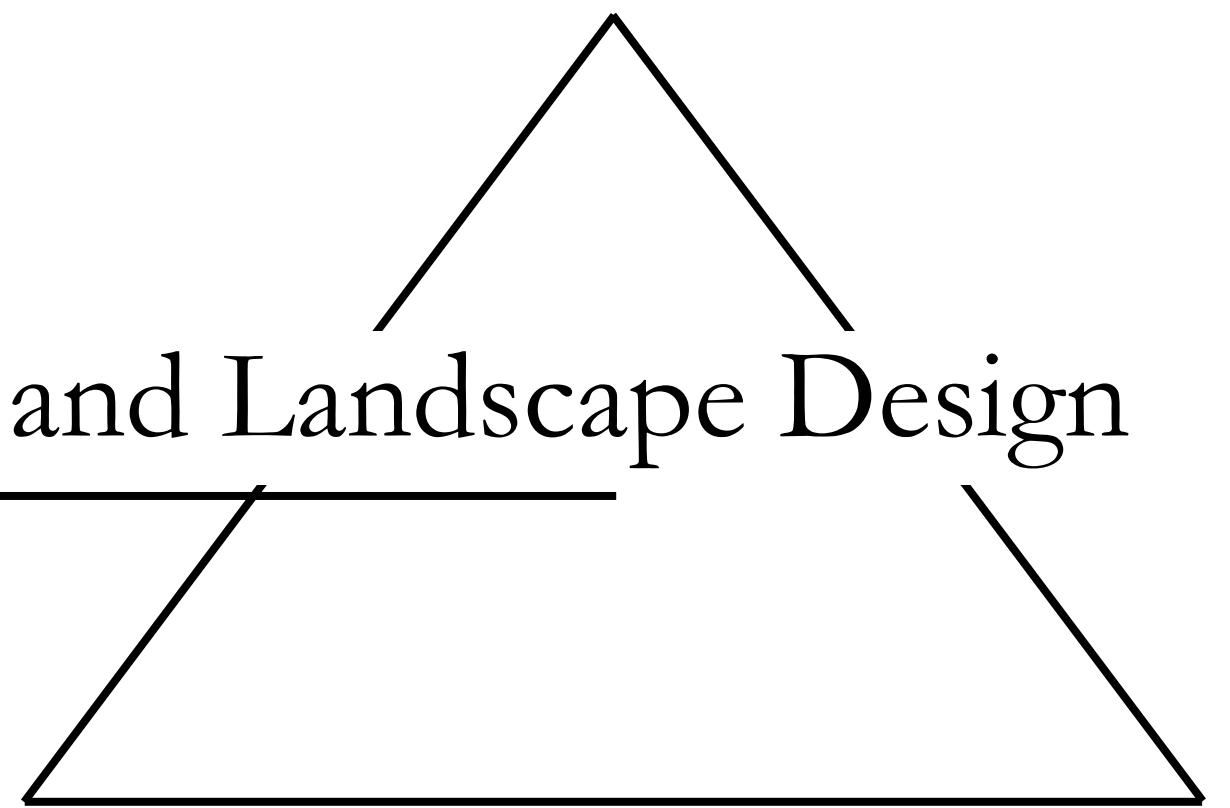
5.2 Medium Scale



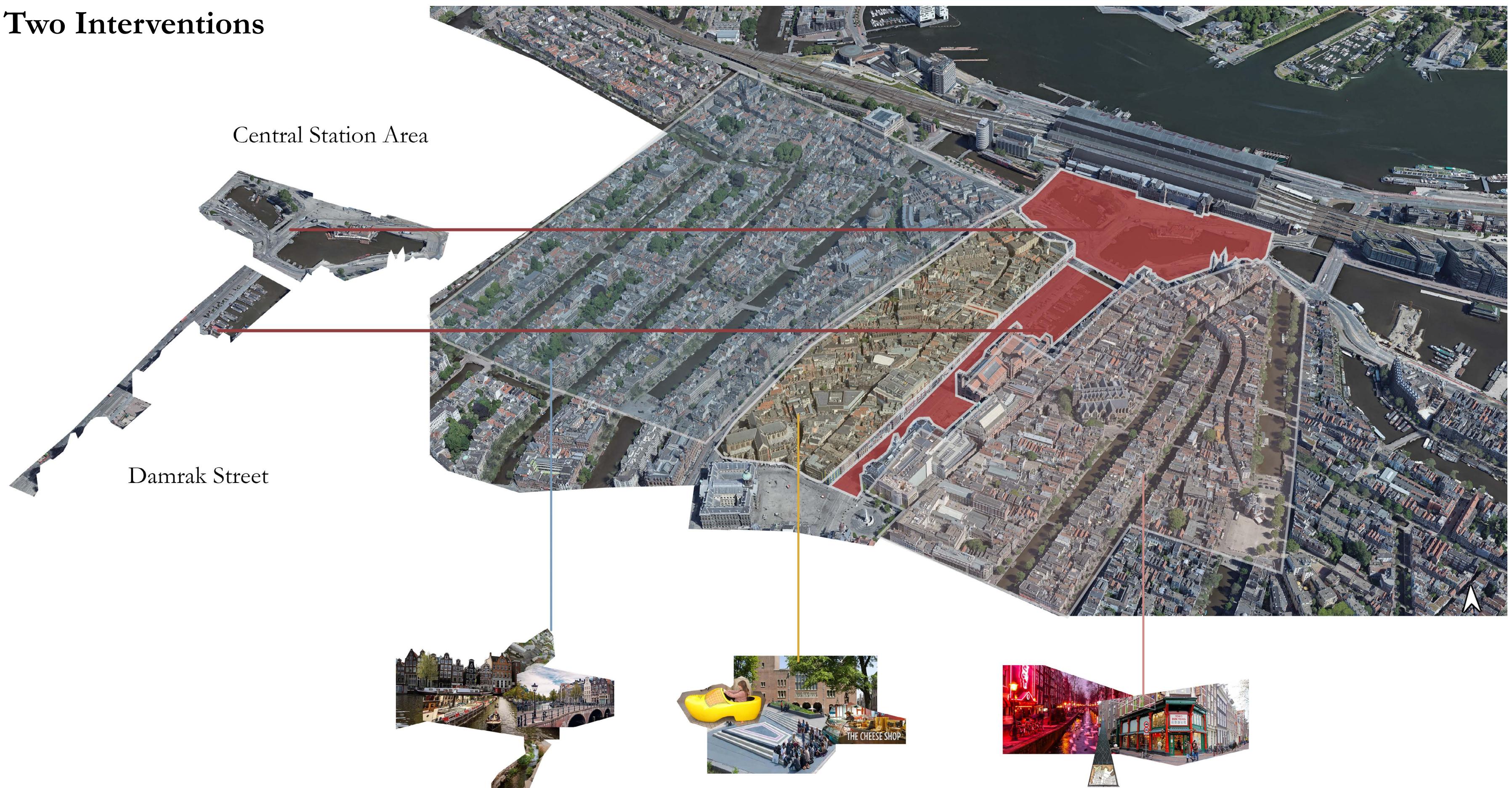
- Driveway
- Second carway
- Tram Line
- Metro
- Bus way
- Bike Path
- Public Station
- Bike Storage
- Underground Car Parking



6. Local Analysis and Landscape Design

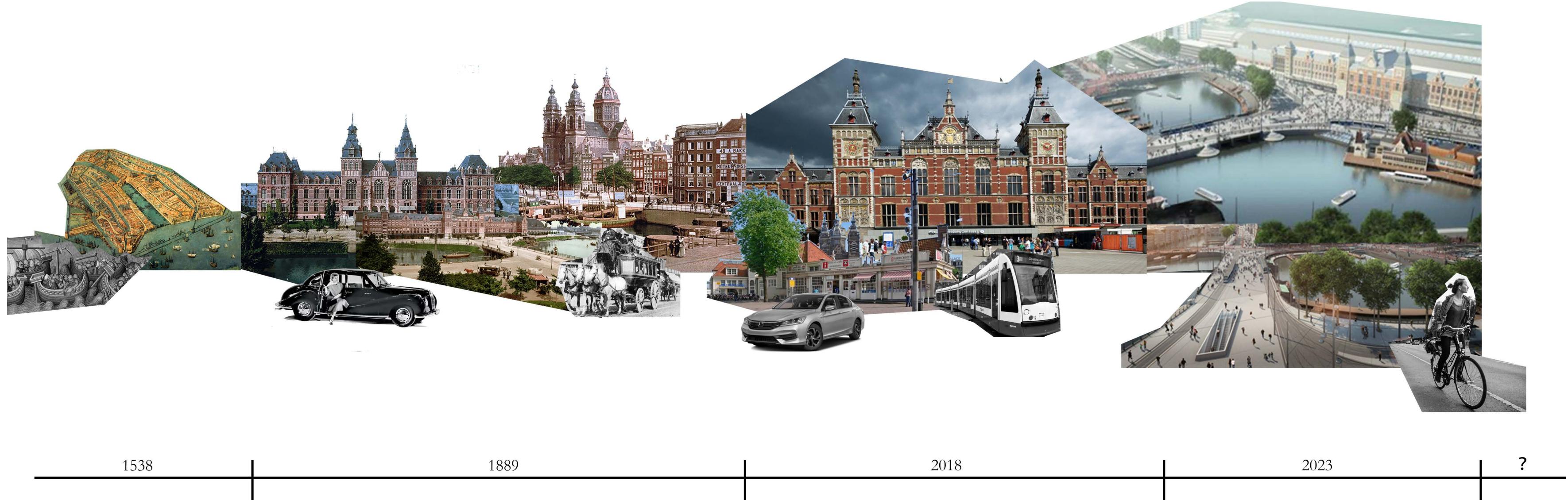


6.1 Two Interventions

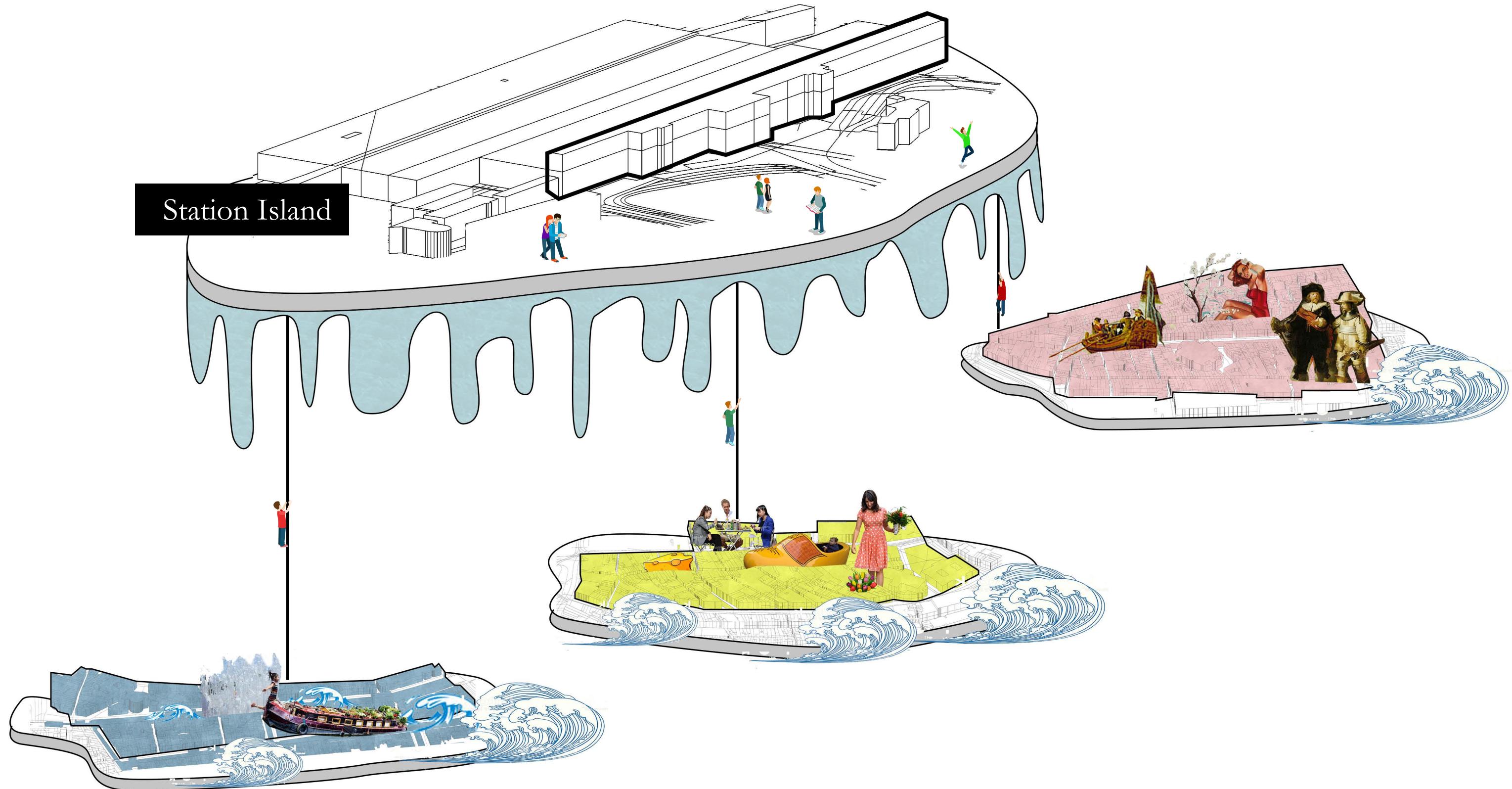


6.2 Central Station Area

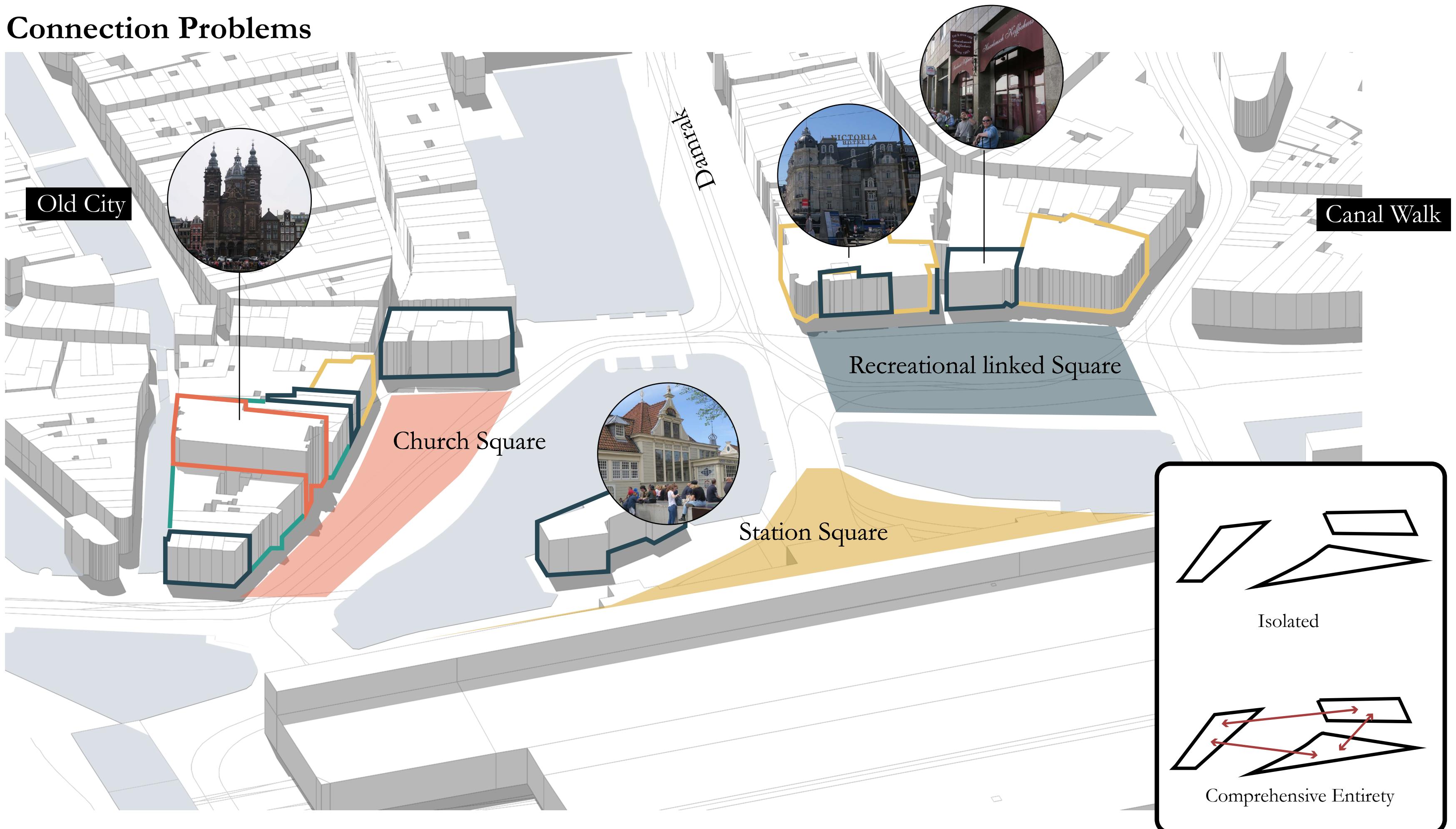
6.2.1 From History to Future



Riding the Wave

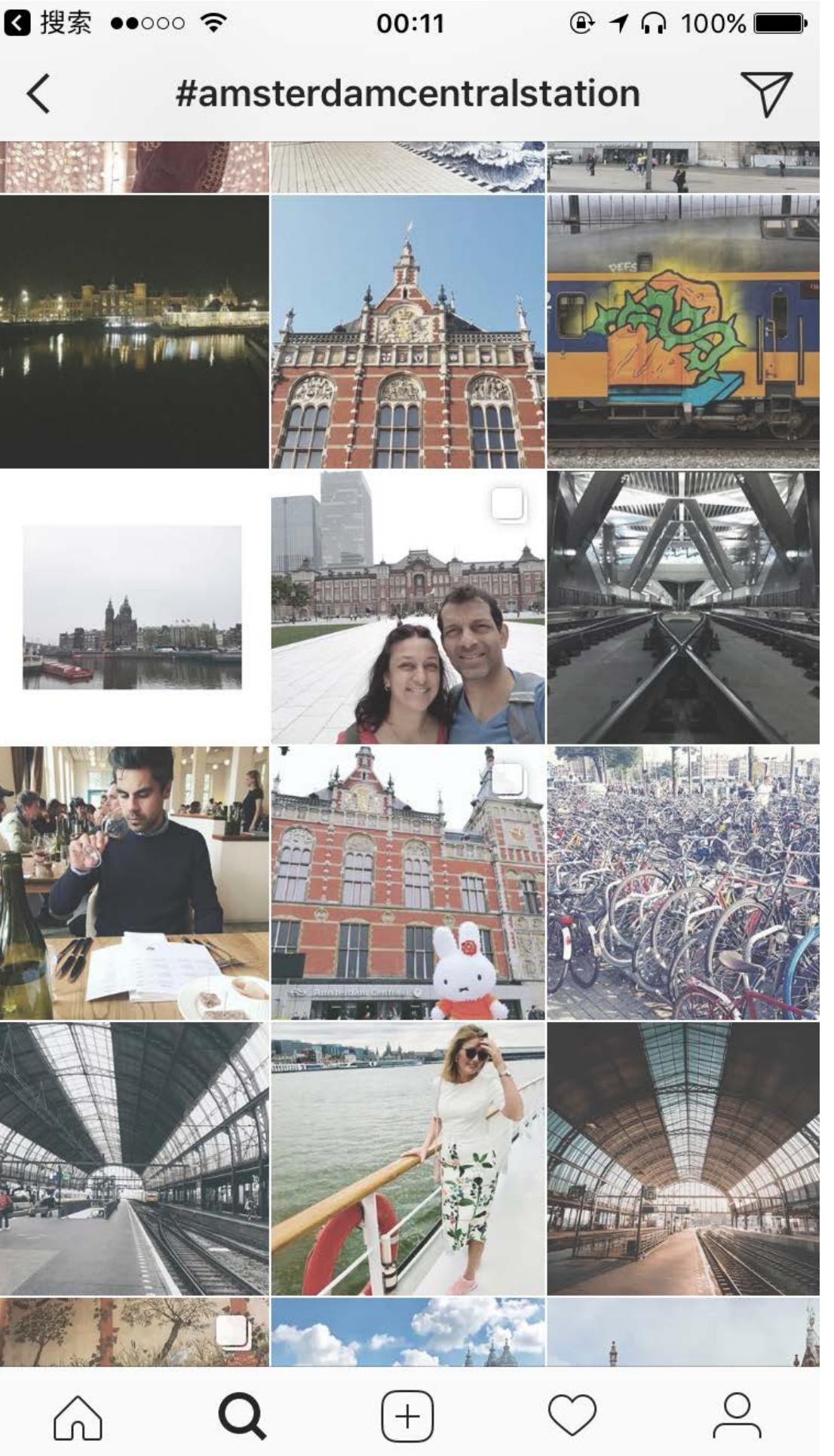


6.2.2 Connection Problems



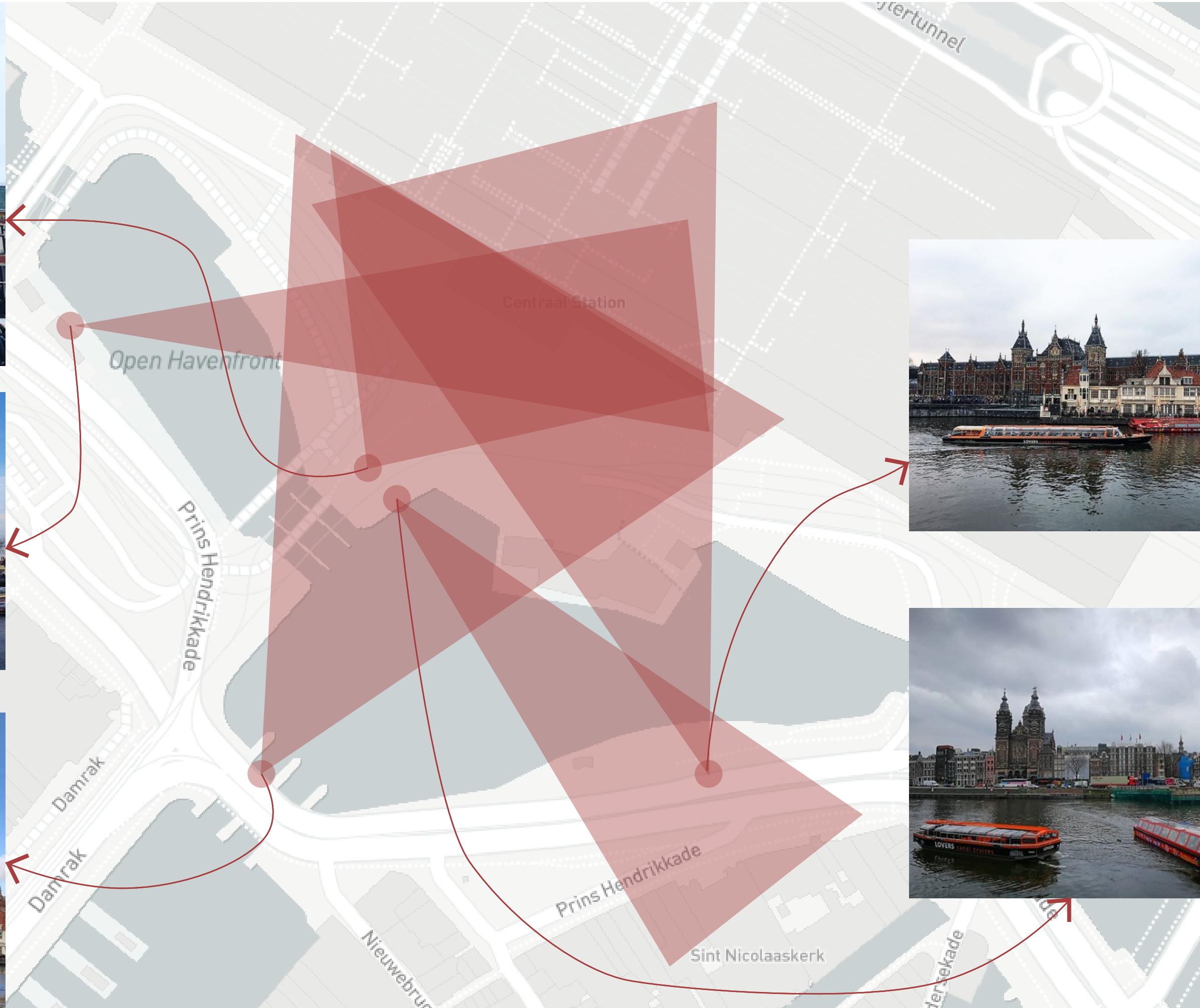
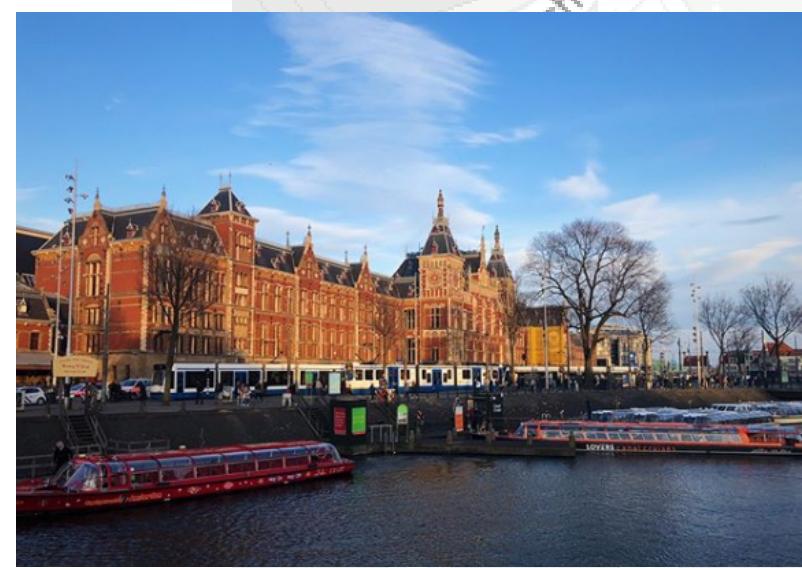
For most human beings, the primary way of knowing the material world is through vision; the simple act of opening ones eyes and looking at an object, a scene, a horizon.

Harris and Fairchild Ruggles (2007)

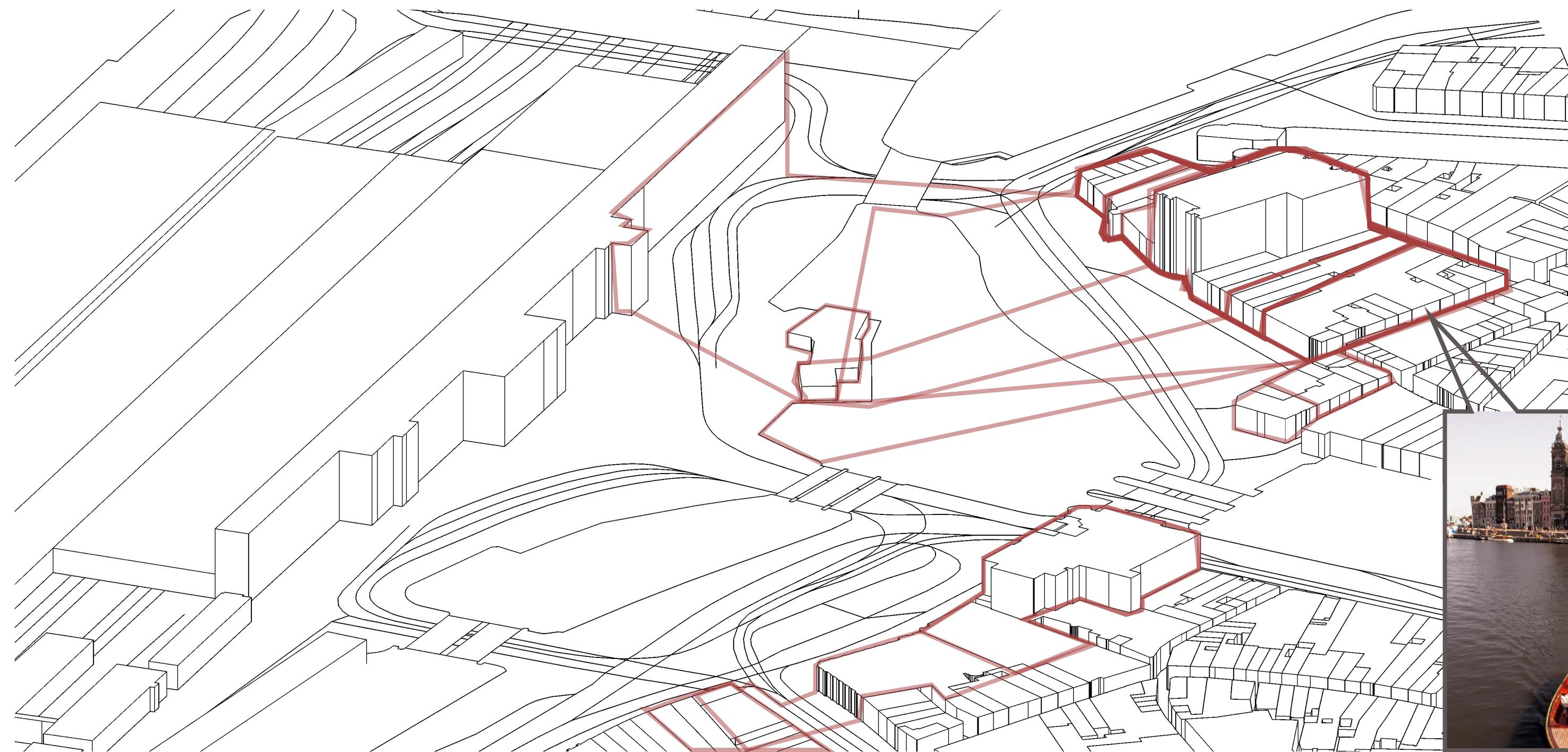


6.2.3 Vision Research





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Coherence

Legibility

Complexity

Mystery

× 1

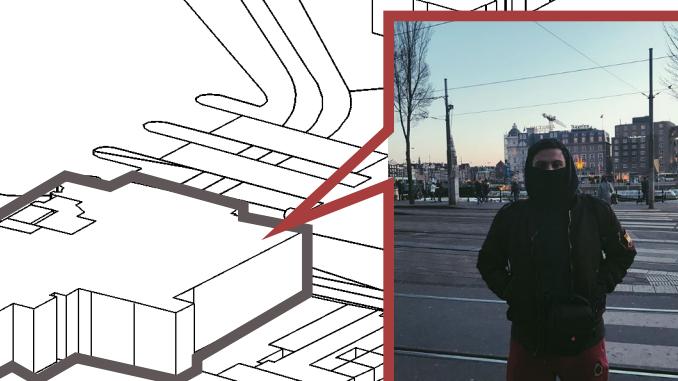
× 24



× 10



× 17



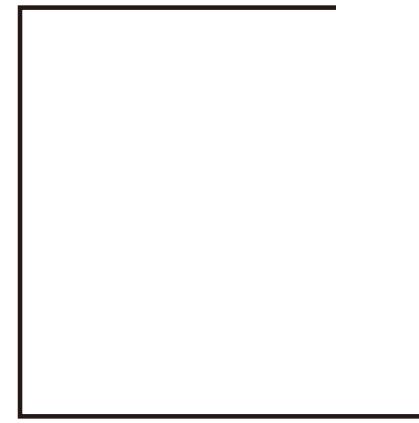
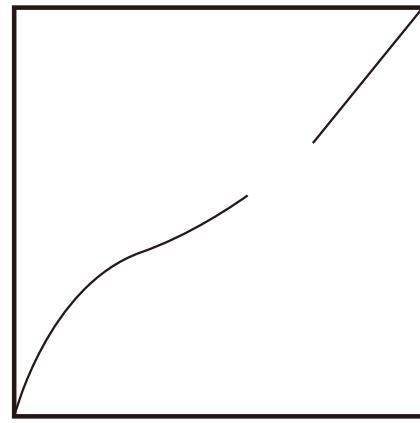
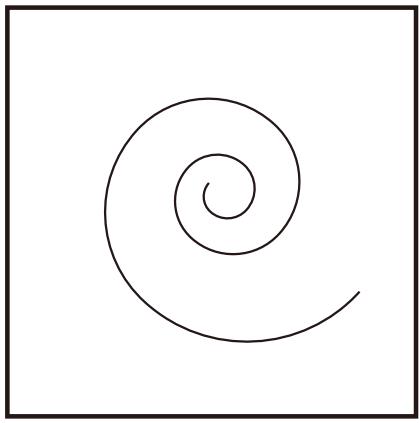
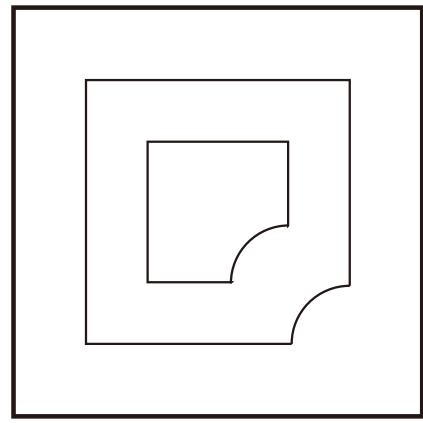
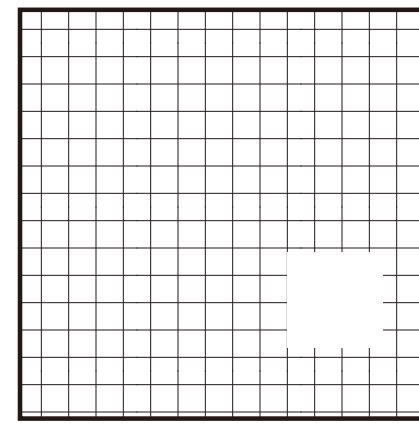
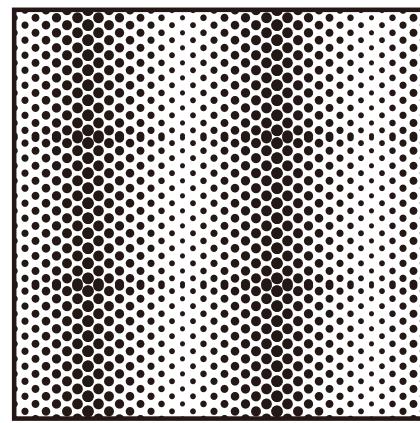
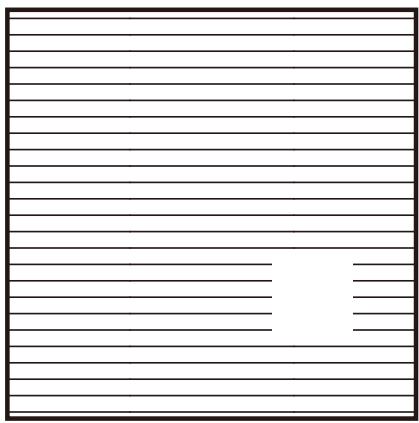
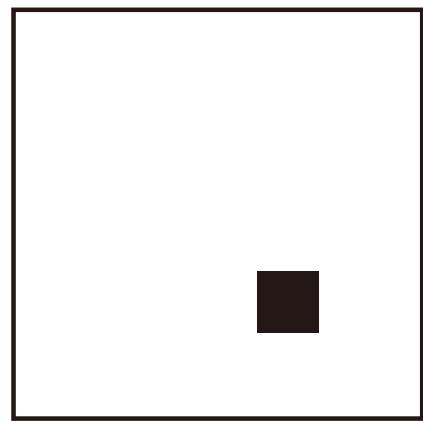
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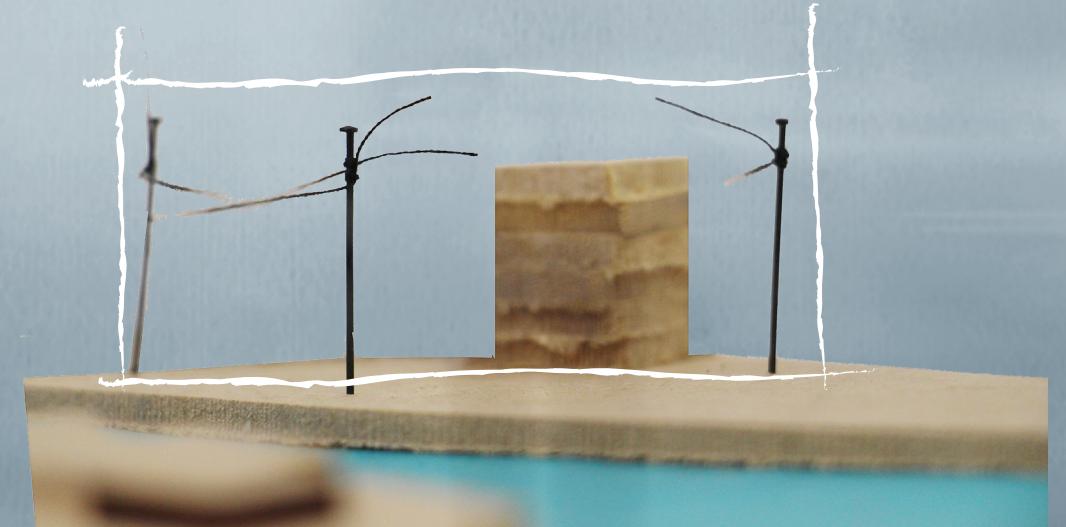
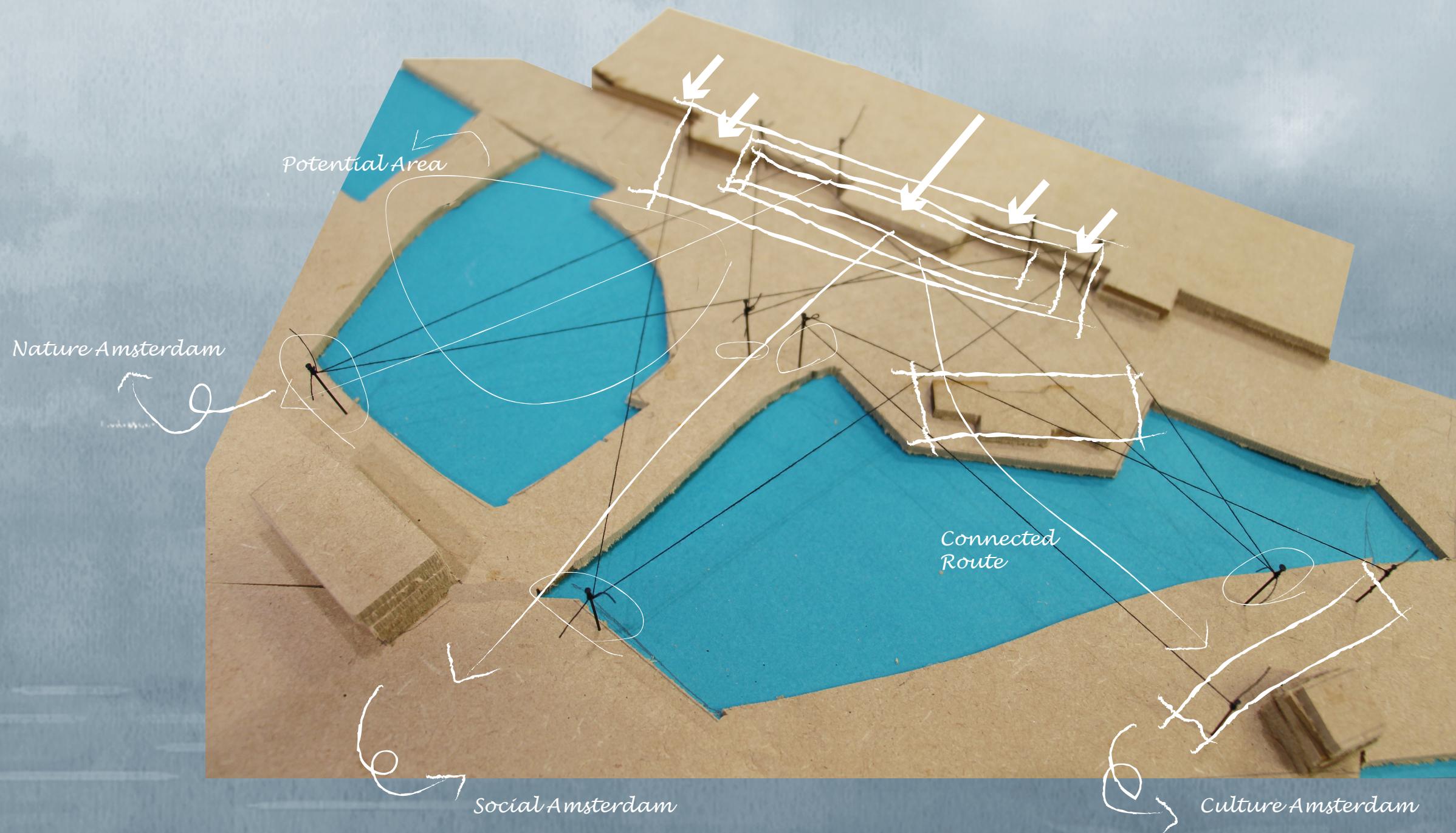


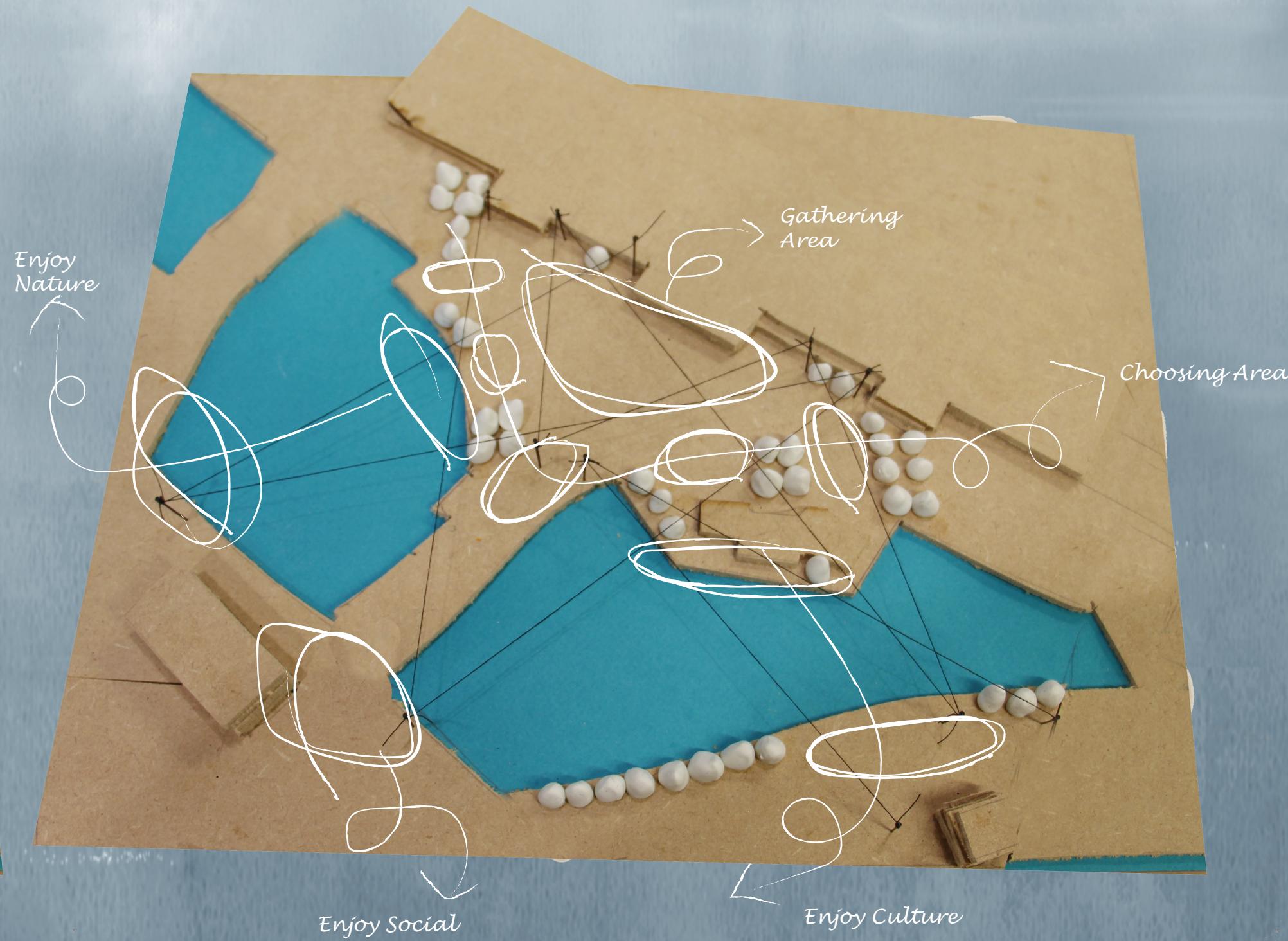
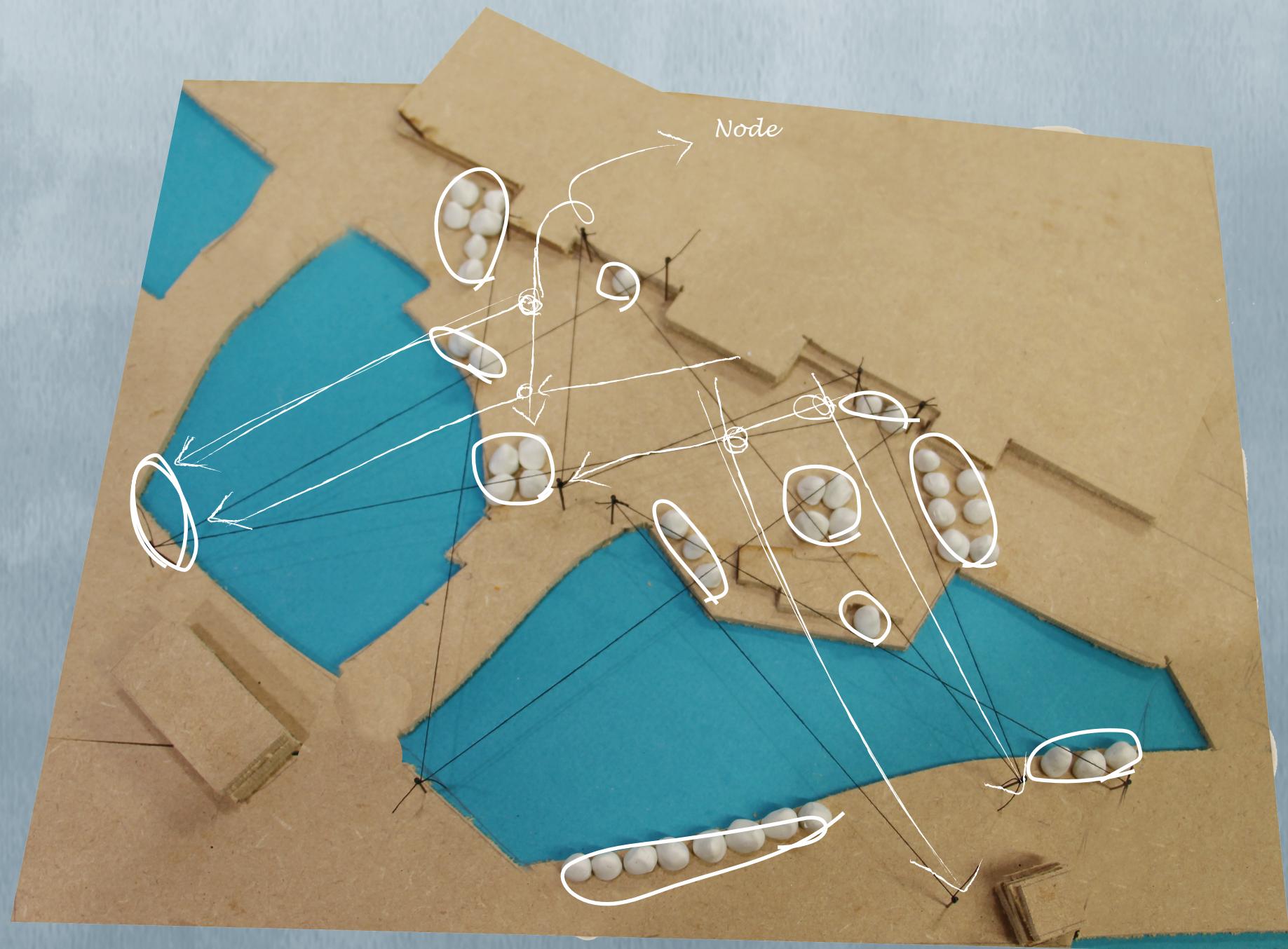
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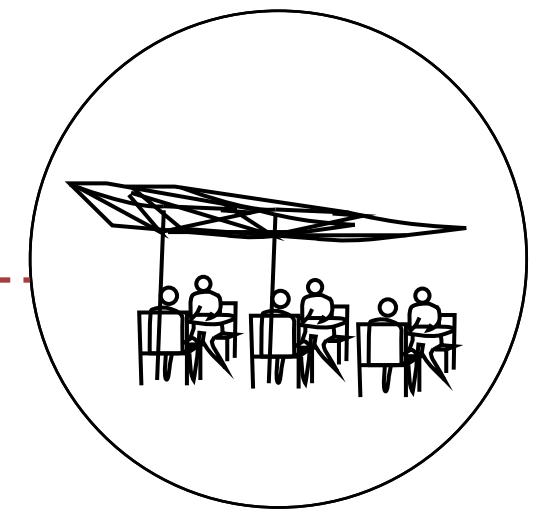
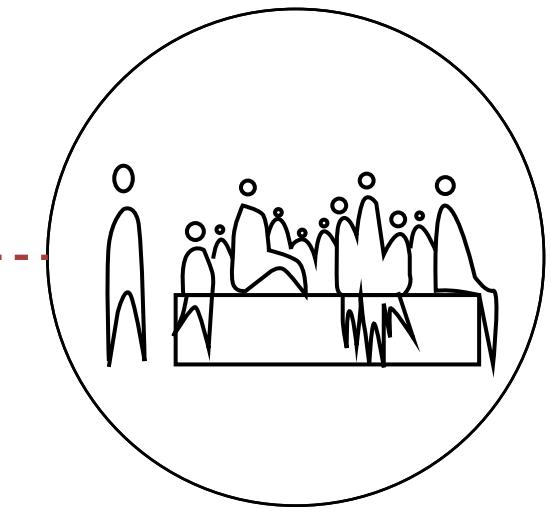
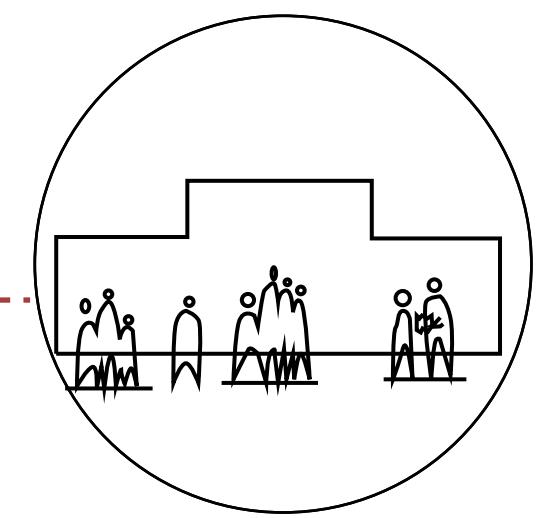
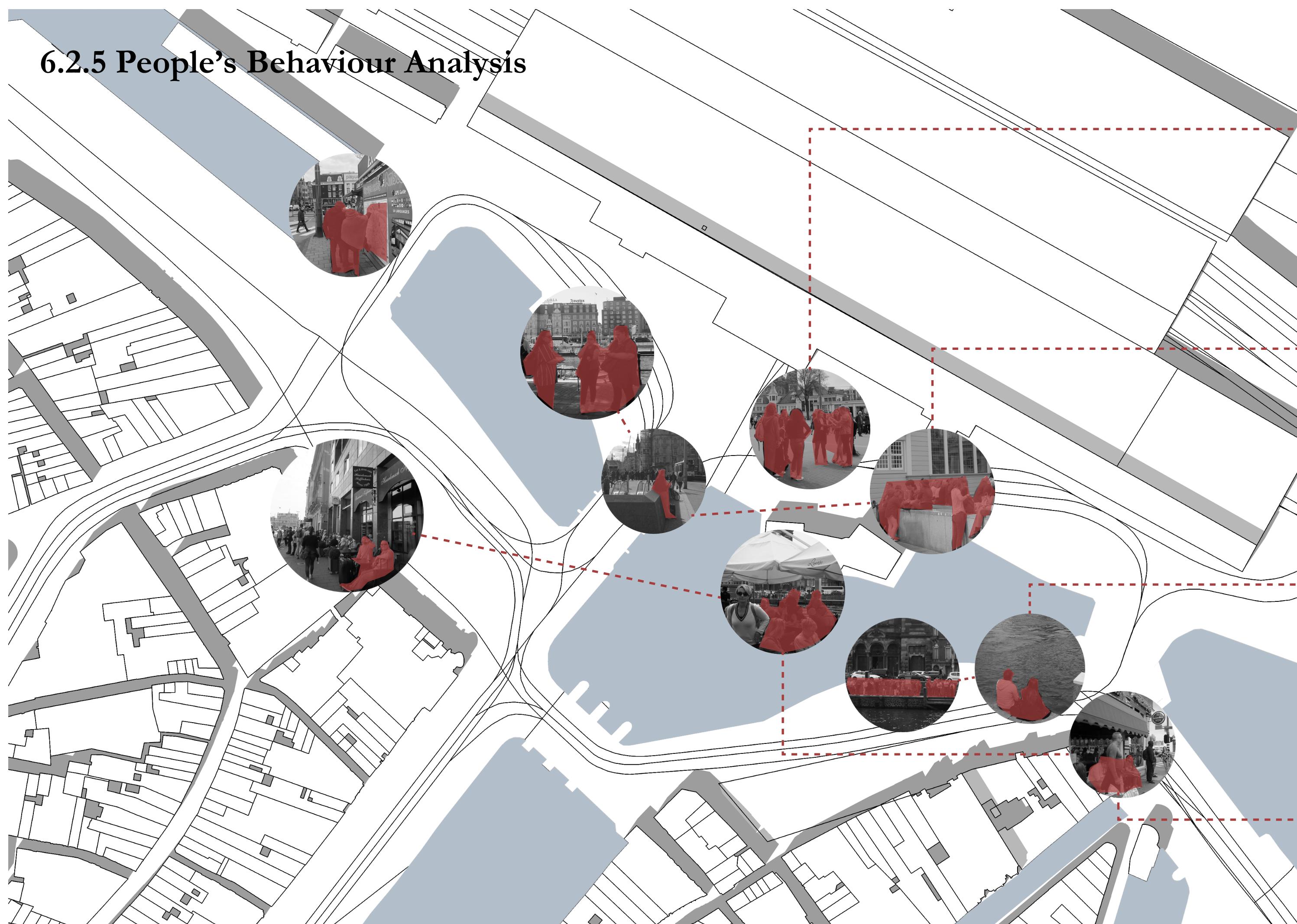
6.2.4 Visually Controlled Movement -- Focus



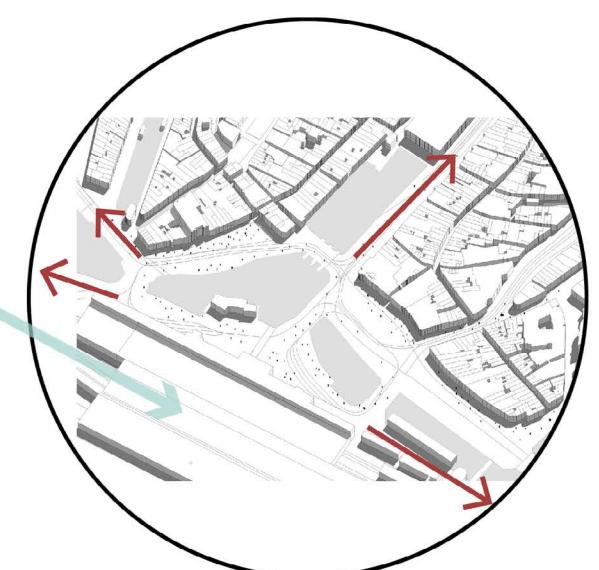
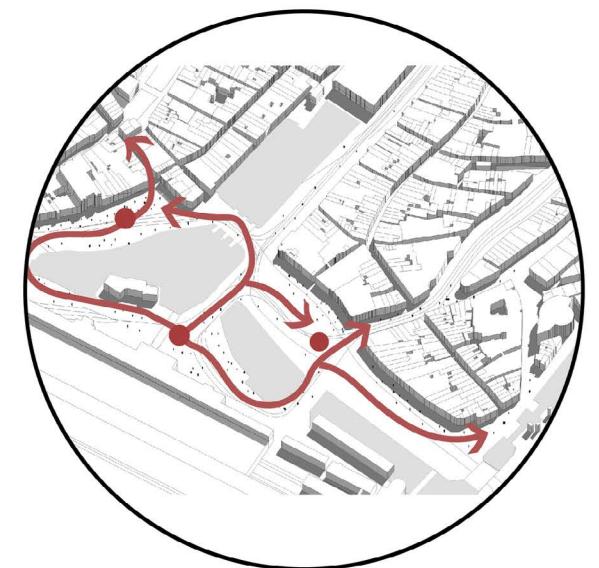
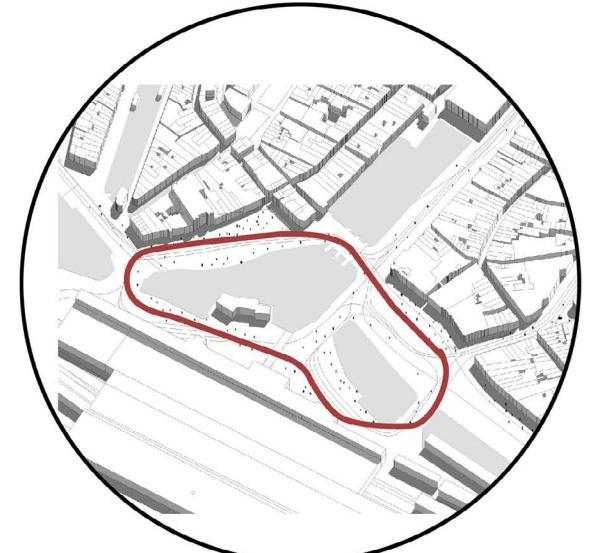
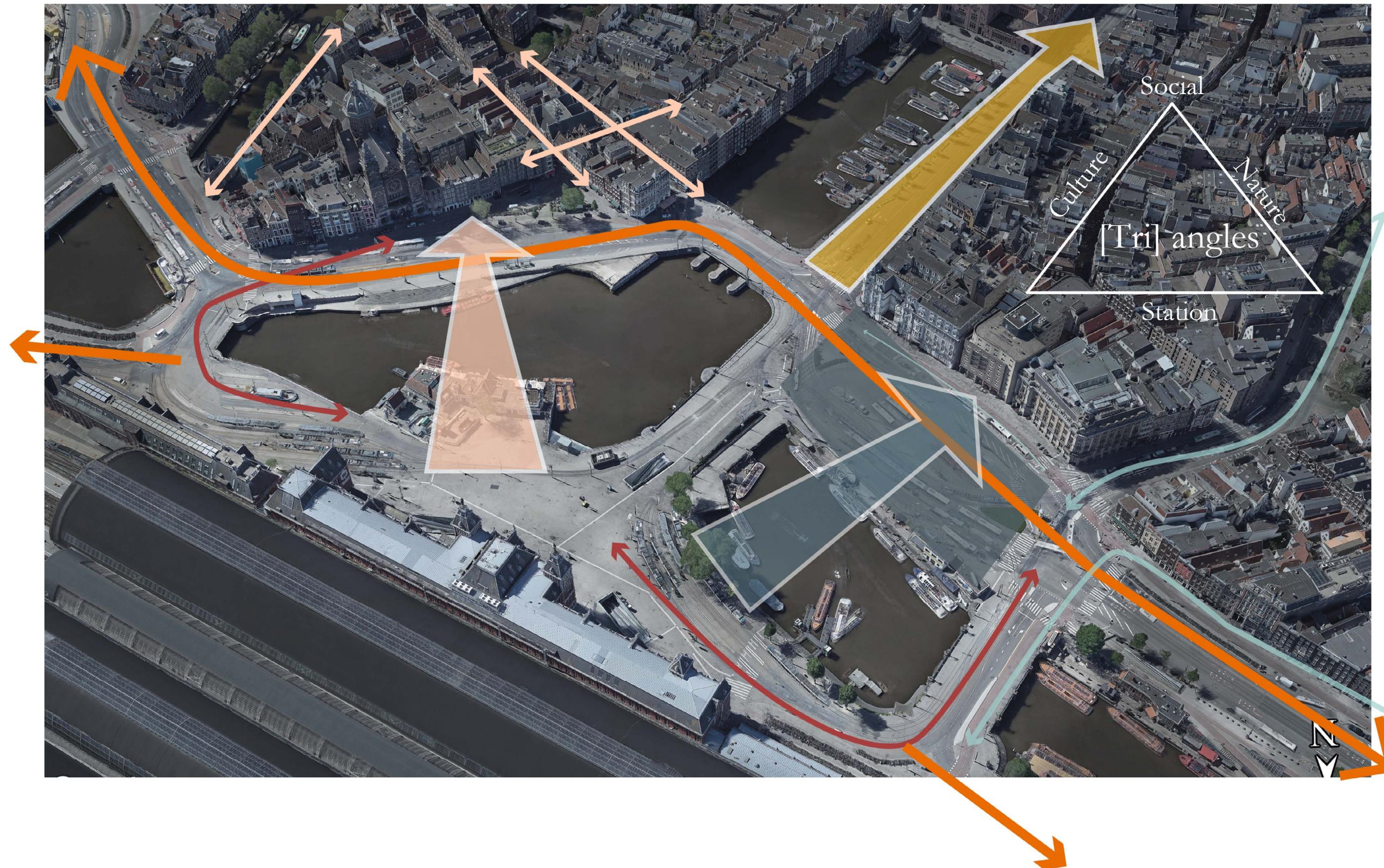




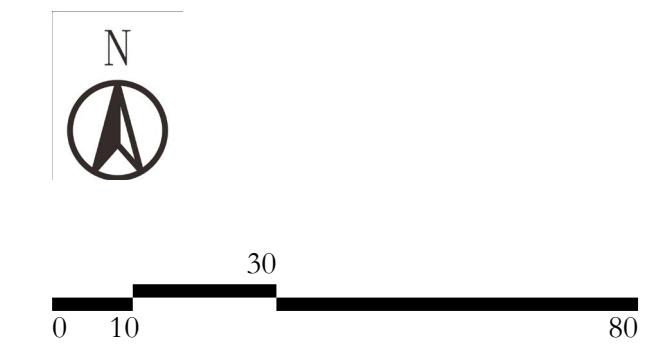
6.2.5 People's Behaviour Analysis



6.2.6 Tri-Angles

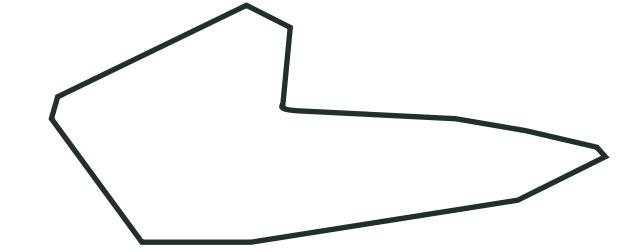
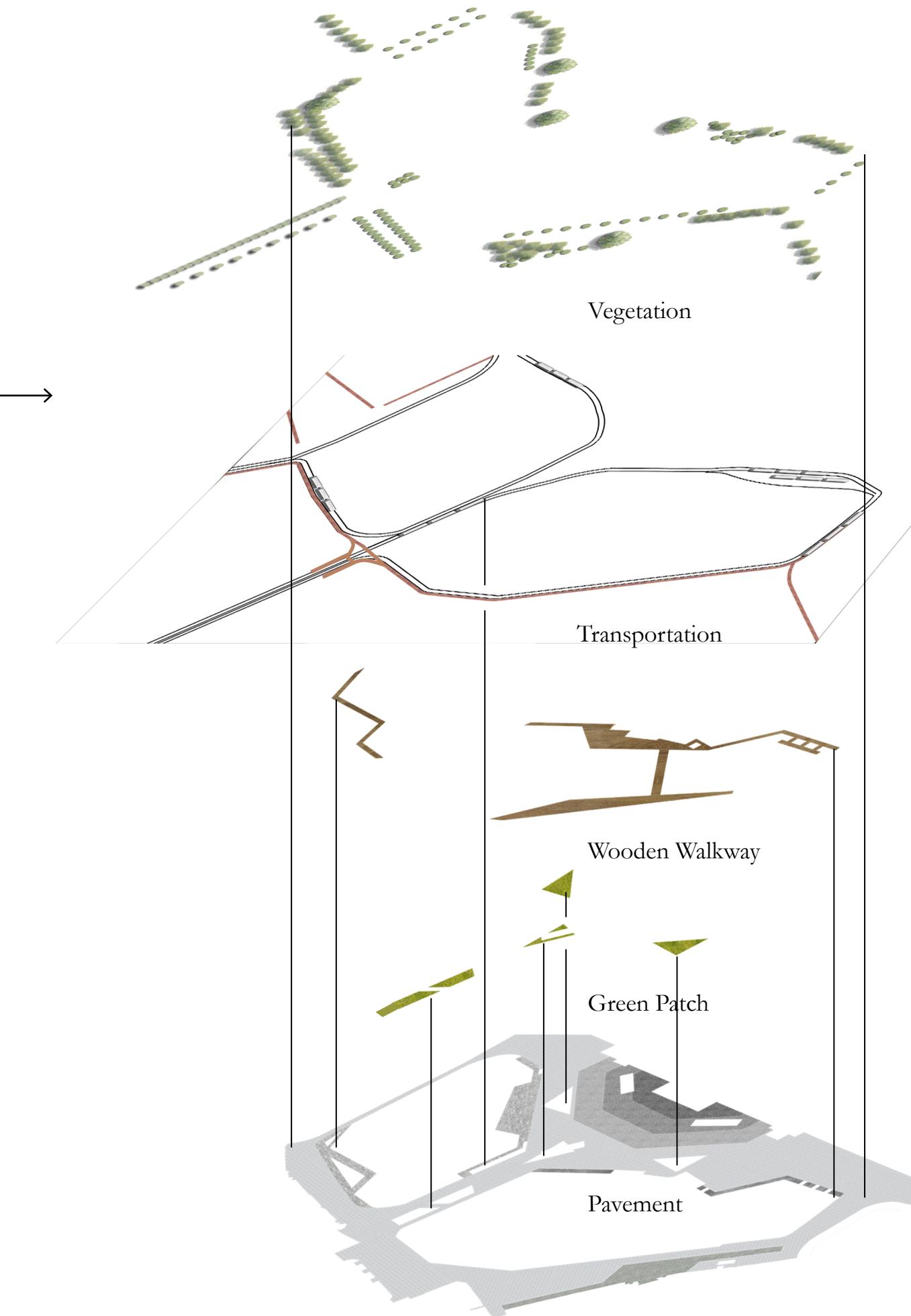
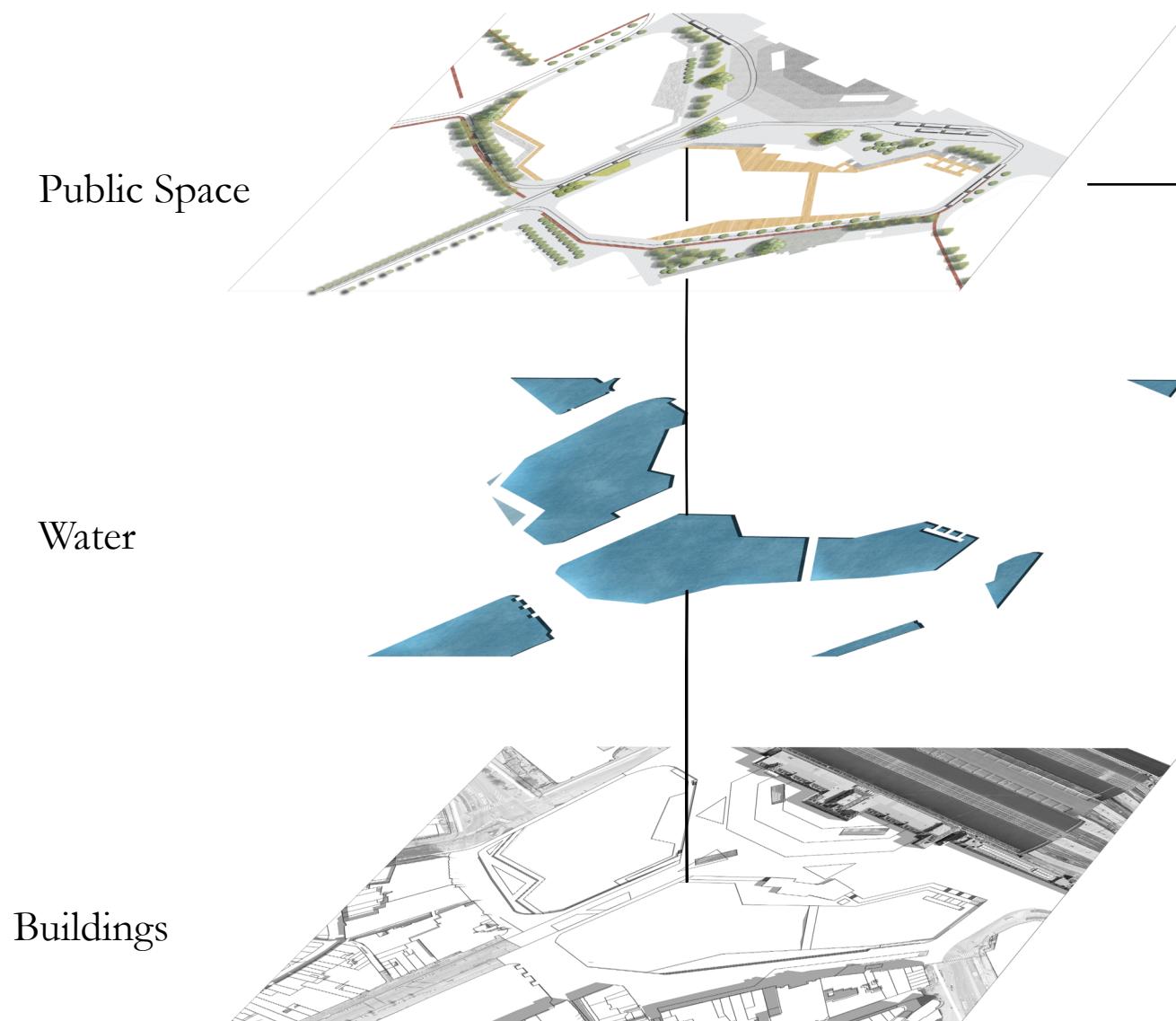


6.2.7 Master Plan

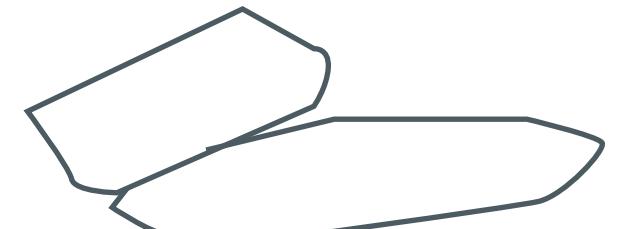


1. Amsterdam Centre Station
2. Station Square
3. Waterfront Plaza
4. Tourists Information Center
5. Outdoor Cafe
6. Wave Bridge
7. Waterfront wood platform
8. Understory Cafe
9. Church Square
10. The Nicolas Church
11. Fountain Plaza
12. Ulmus Avenue
13. Tram Station
14. Quay
15. Cycling Path
16. Underground Bike Storage

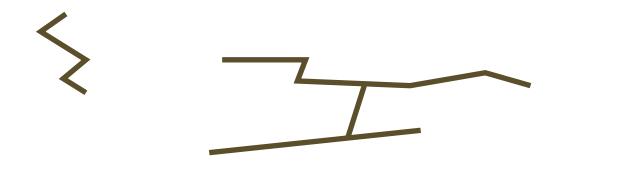
6.2.8 Structure Analysis



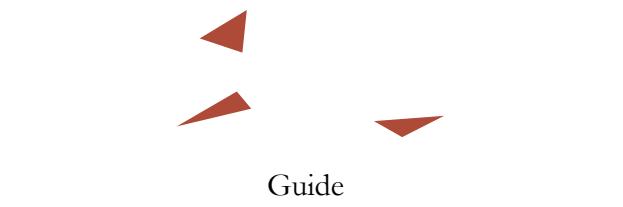
Structural Connection



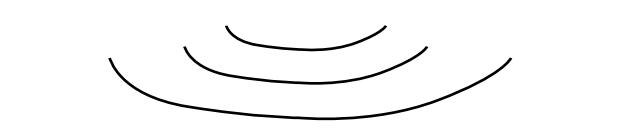
Traffic Connection



Waterfront Connection

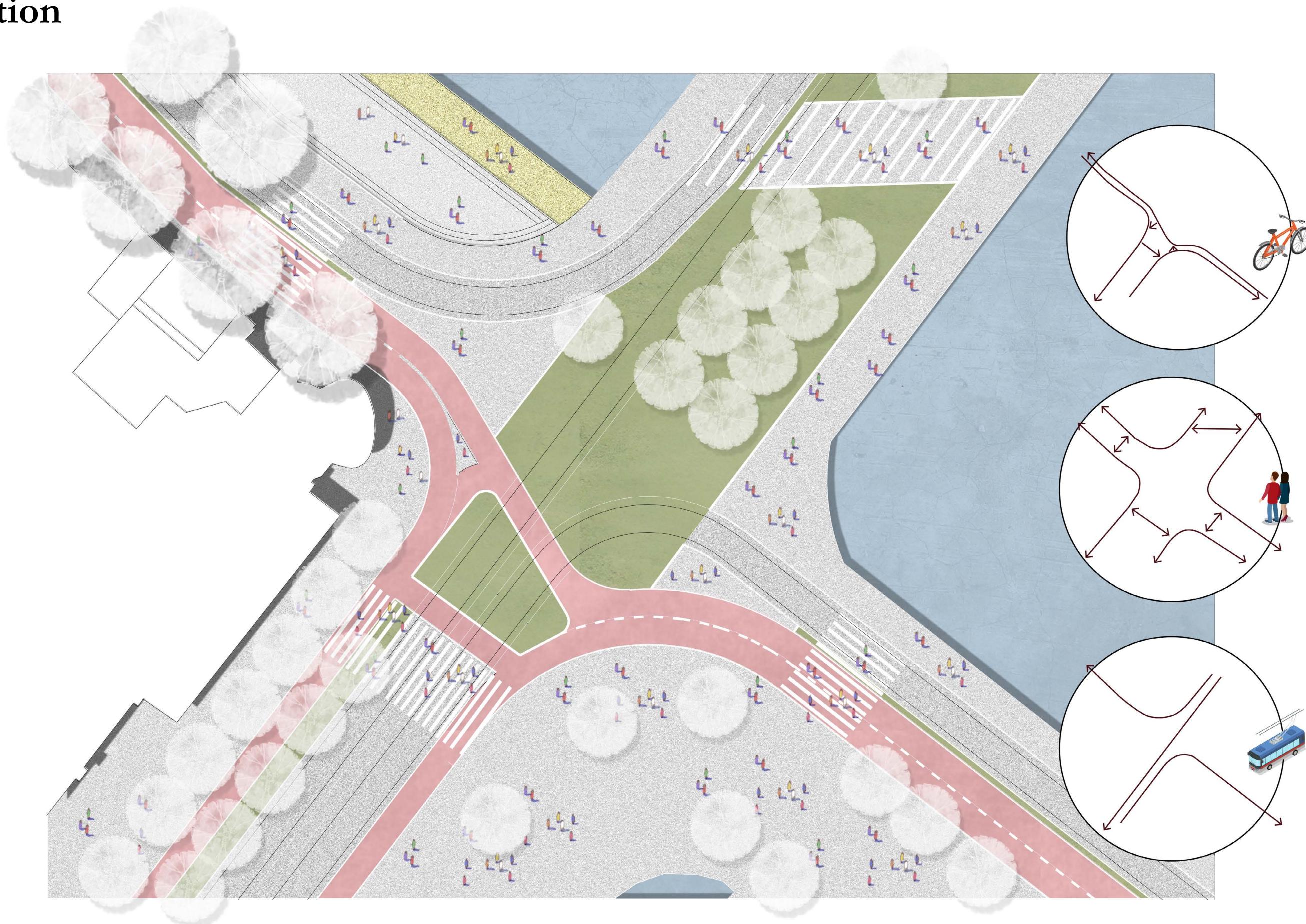


Guide

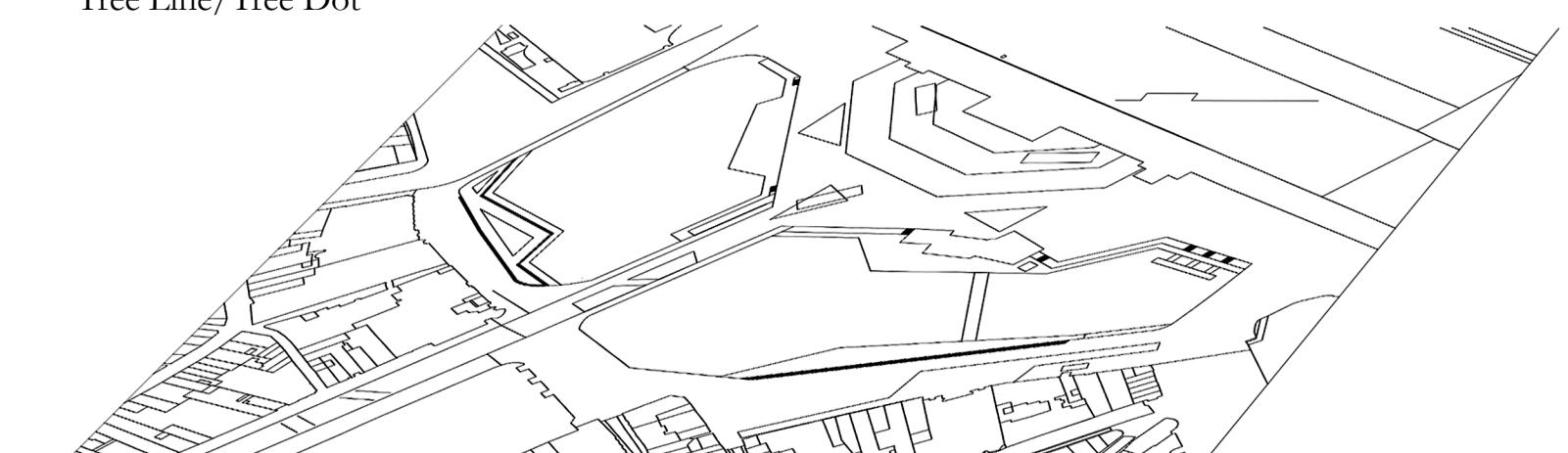
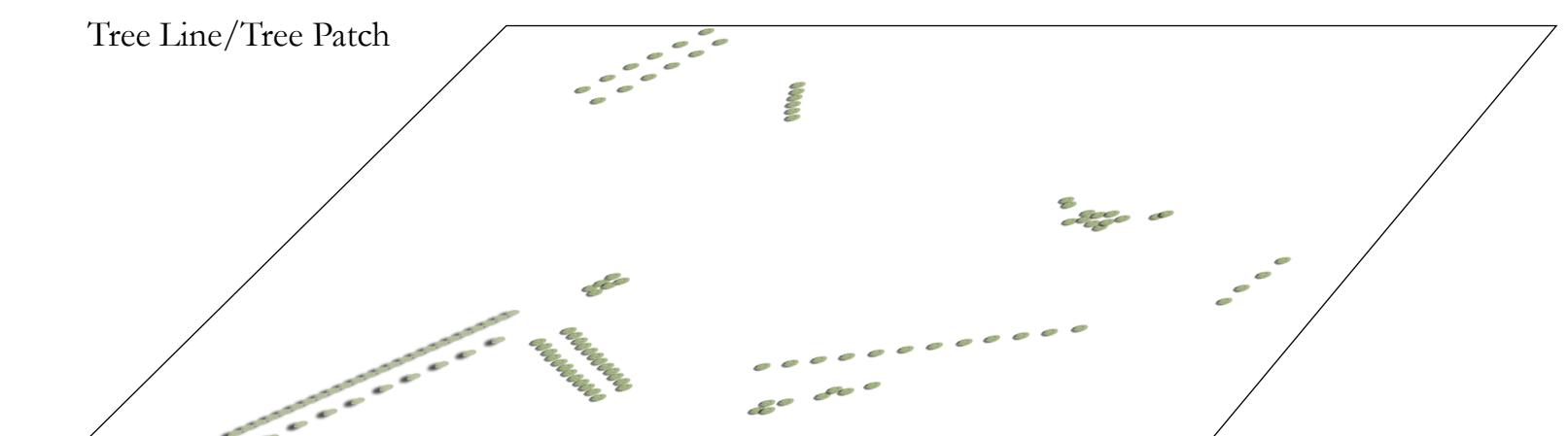
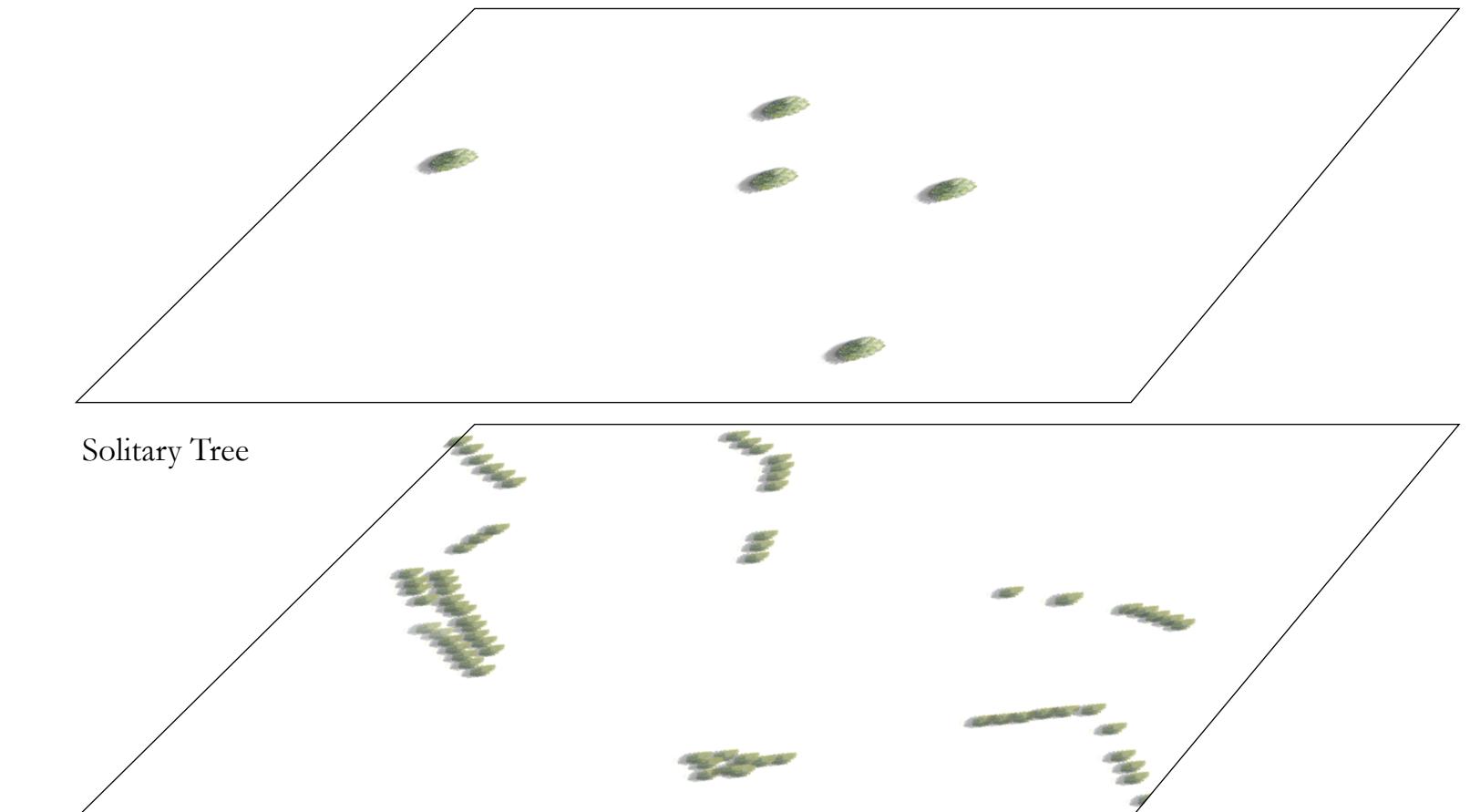
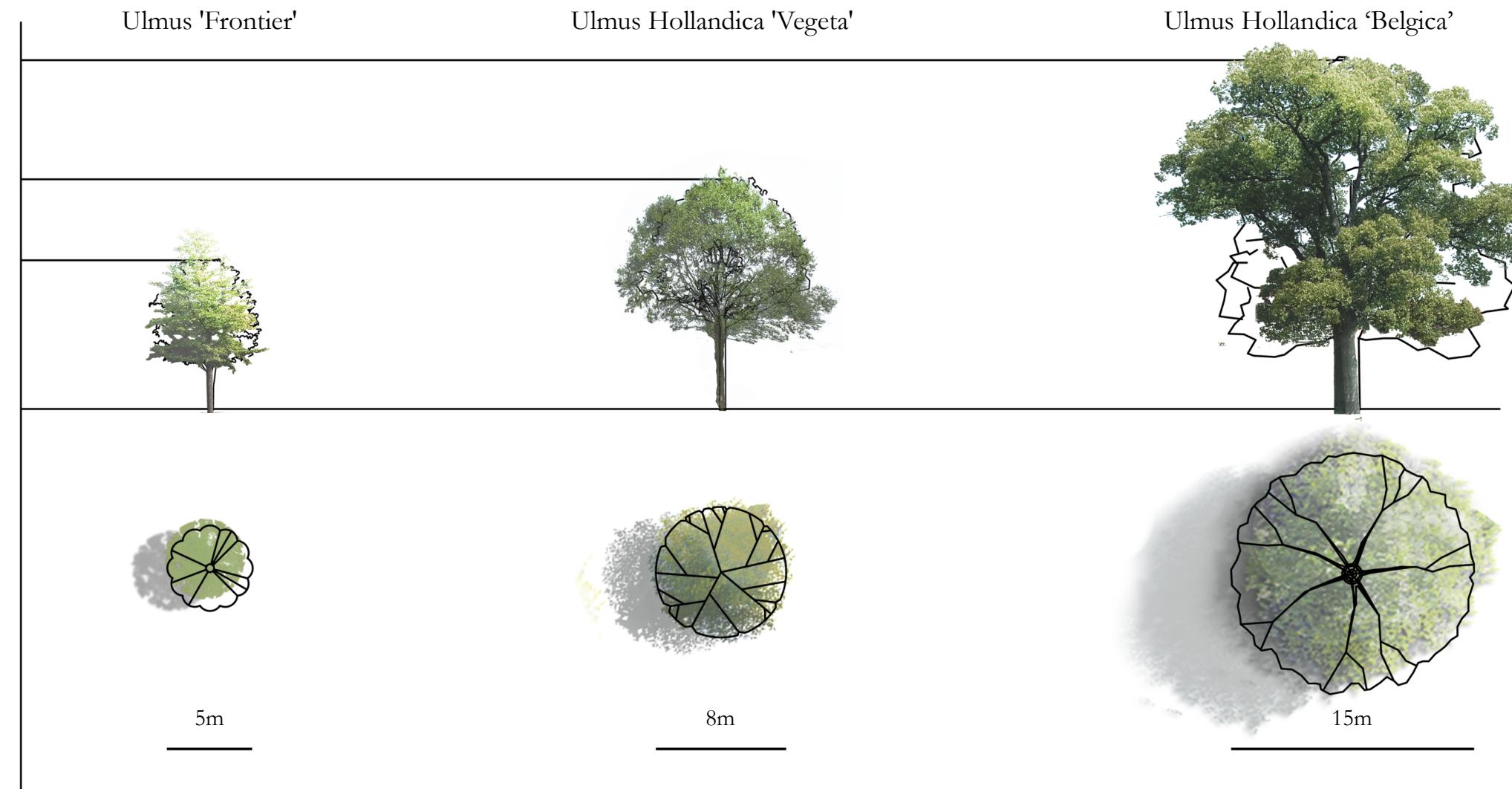


Color: Ripple of Water
Shape: Imitation of Canal Structure
in Amsterdam

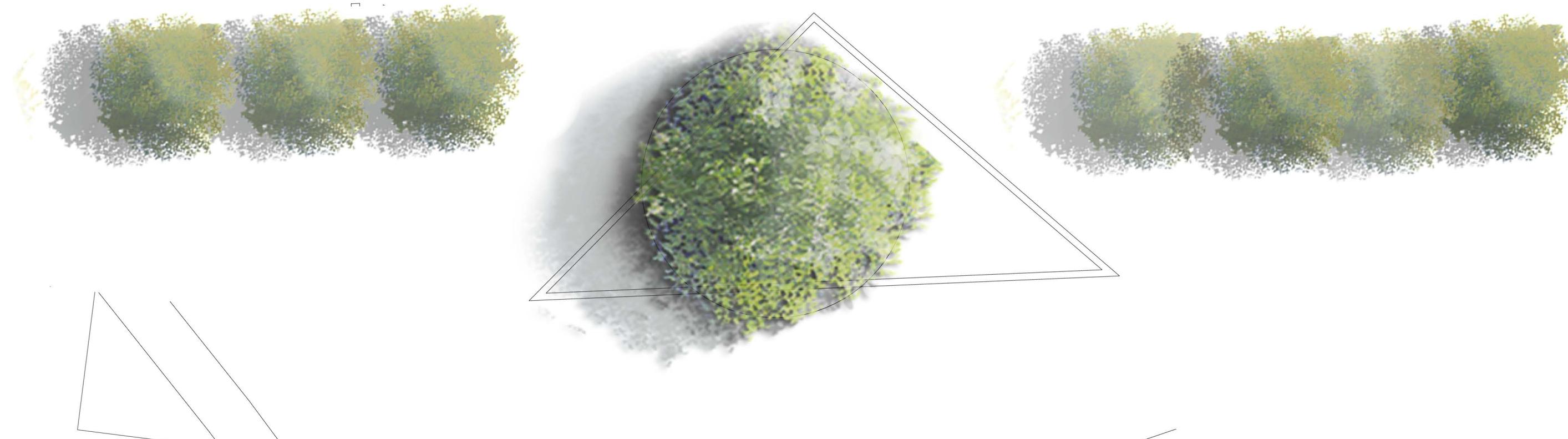
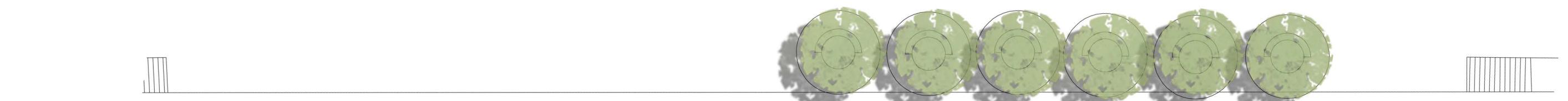
6.2.9 Traffic Junction



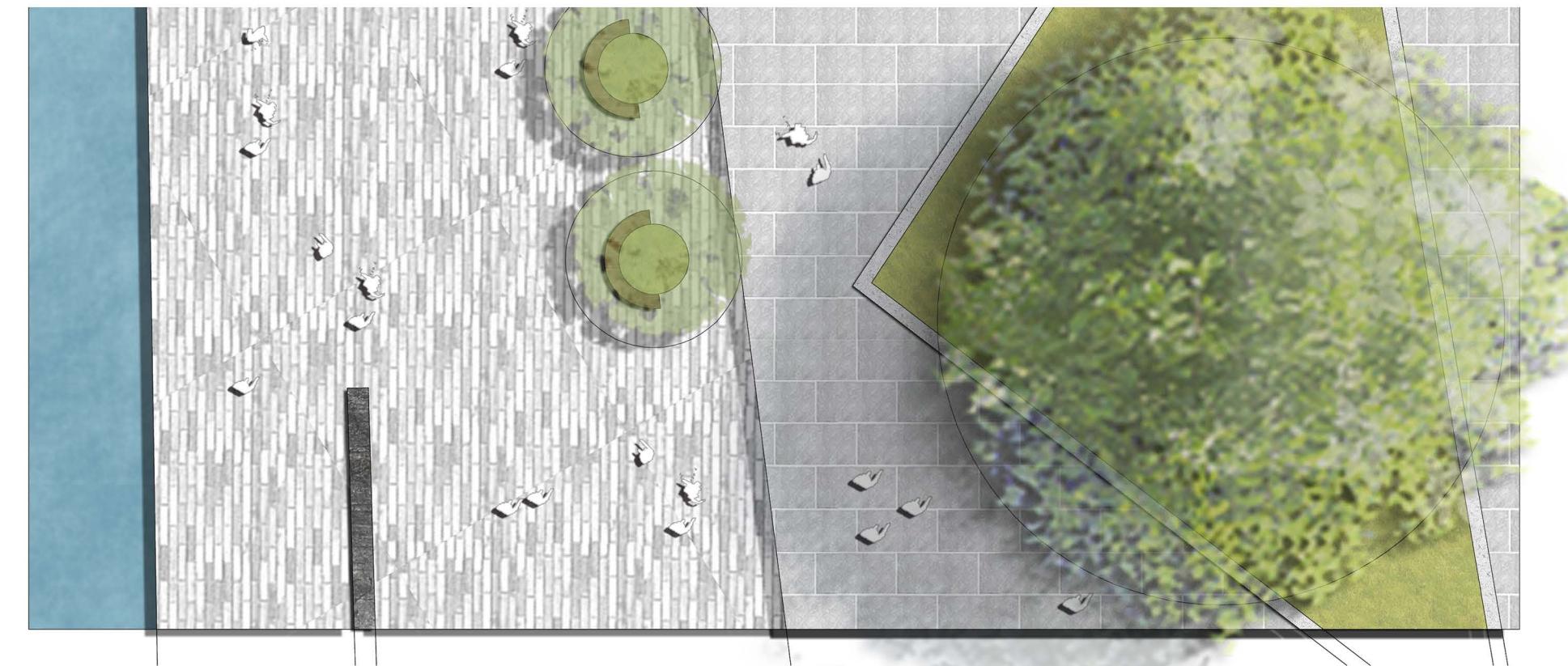
6.2.10 Tree Analysis

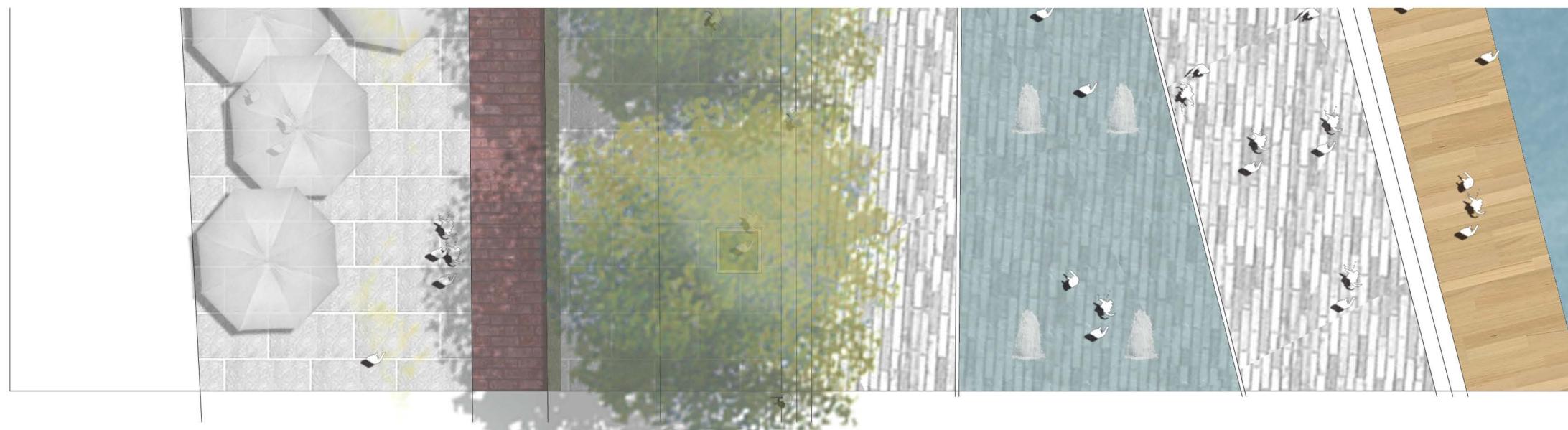
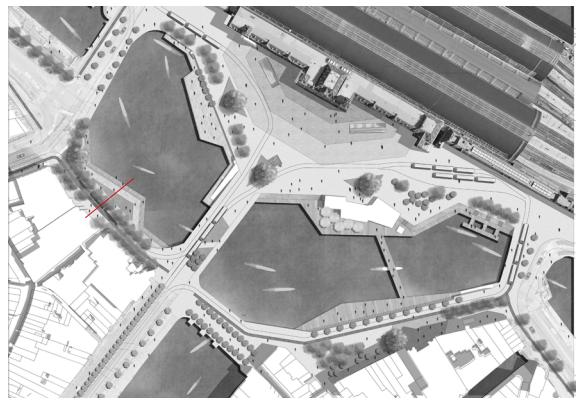


6.2.11 Tree Composition Section



6.2.12 Waterfront Design









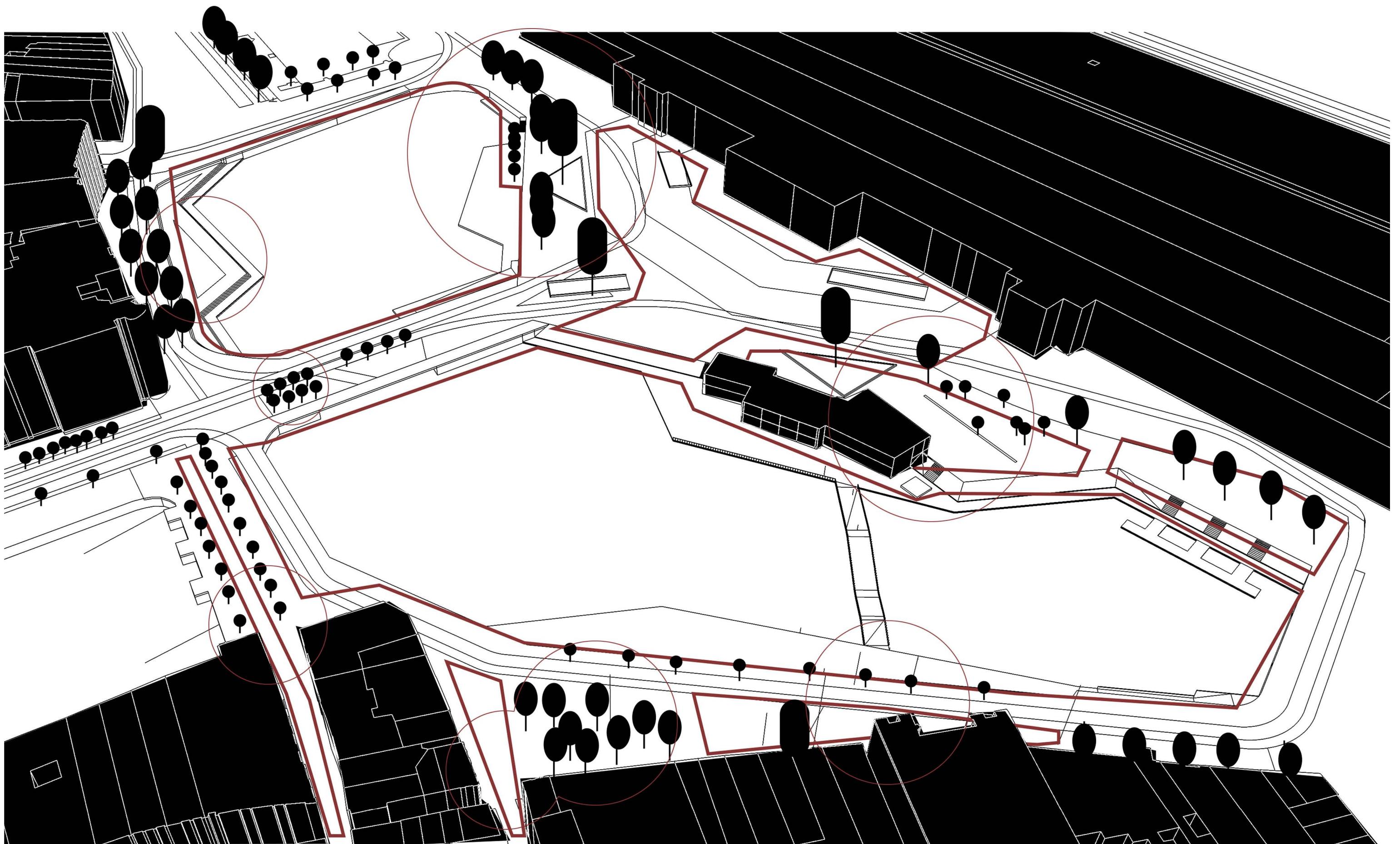




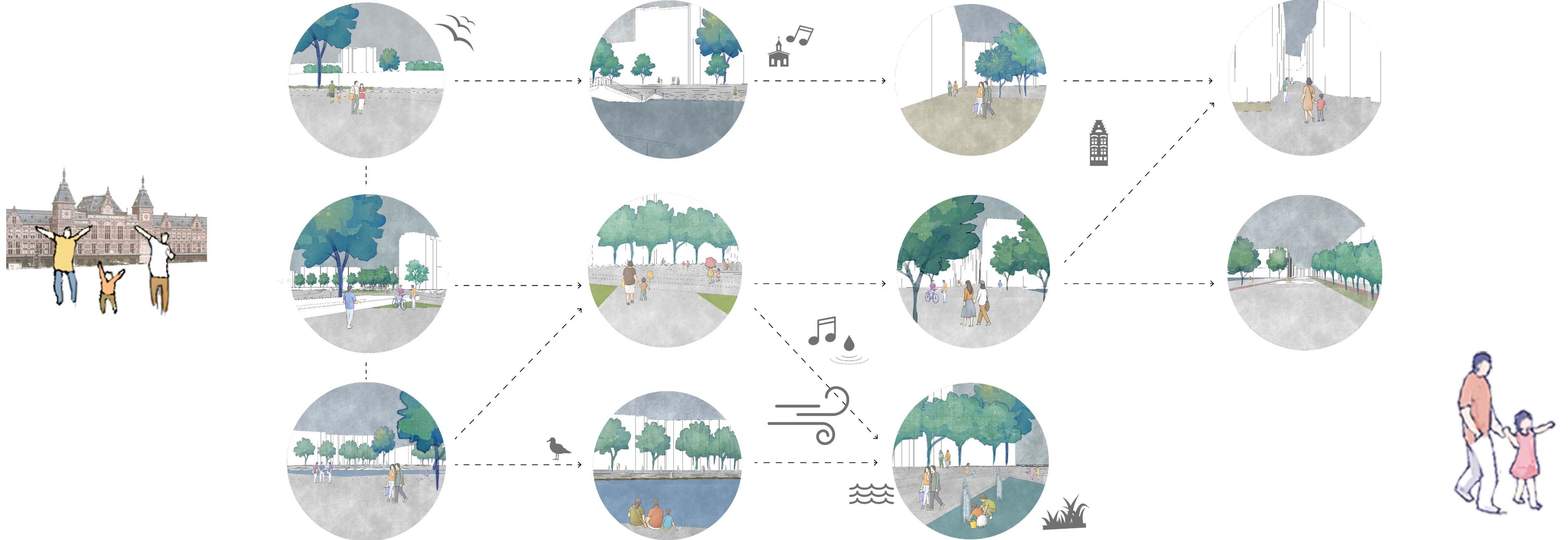
6.2.13 Bird View



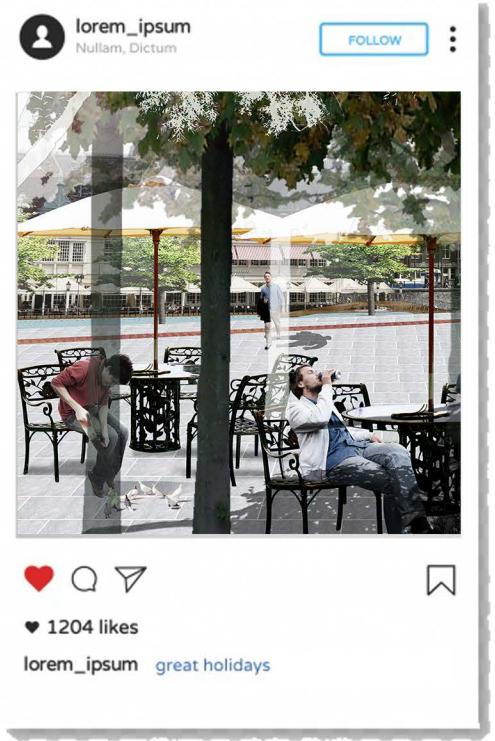
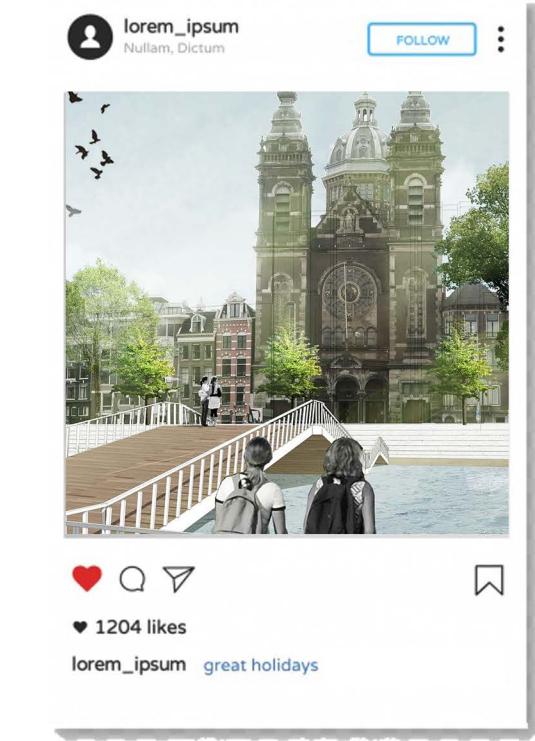
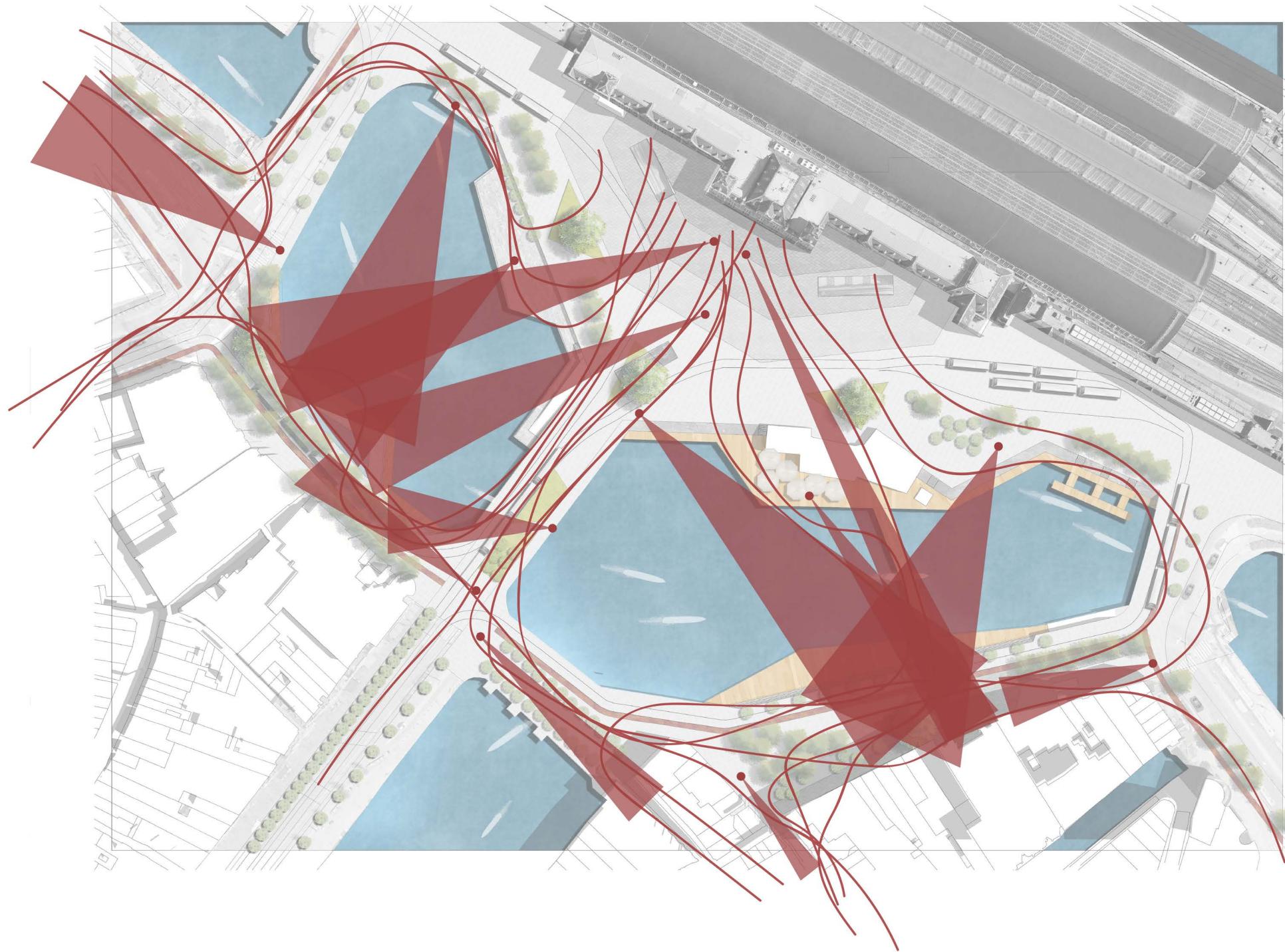
6.2.14 Structural Organization



6.2.15 Visual Sequence

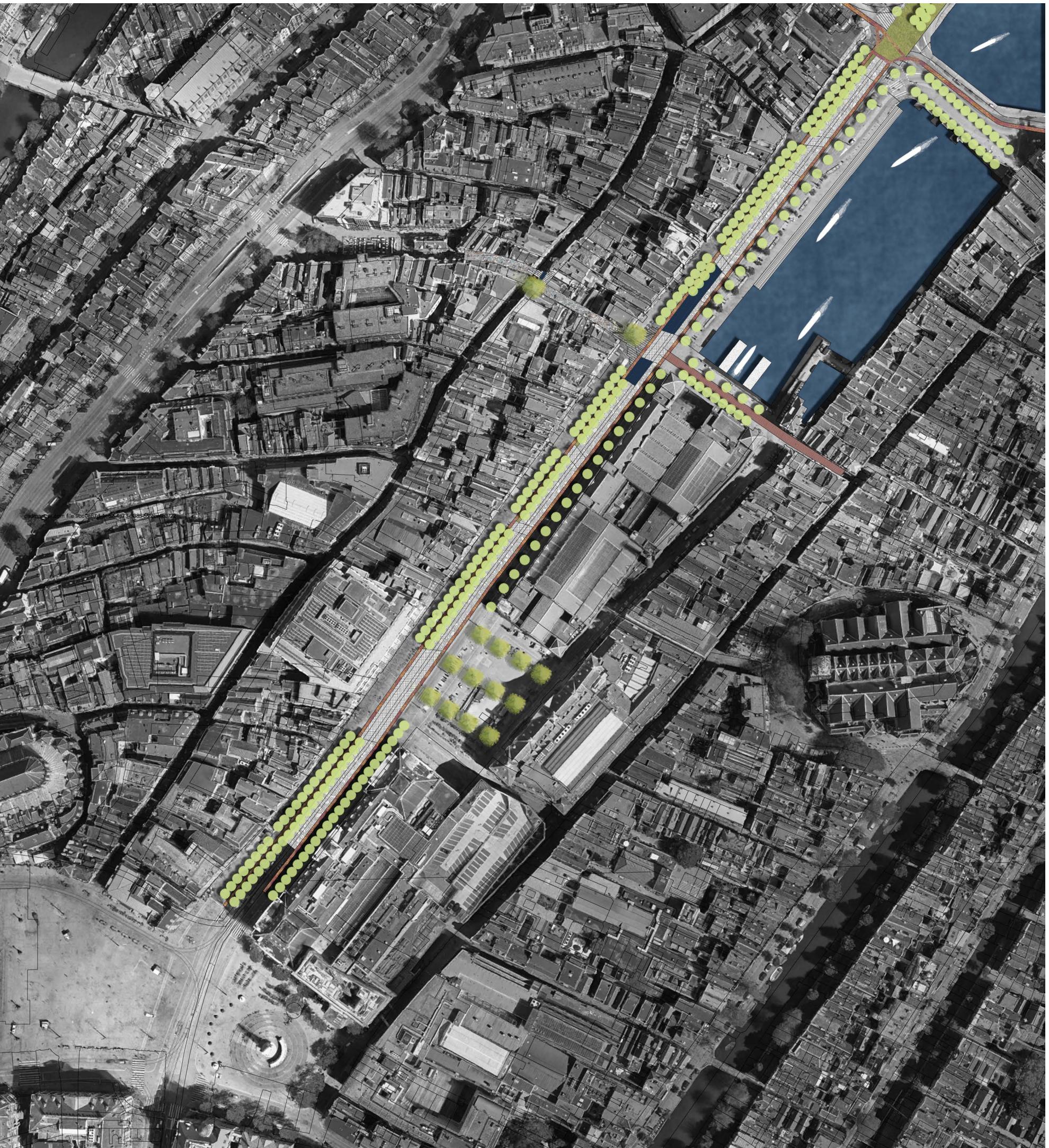
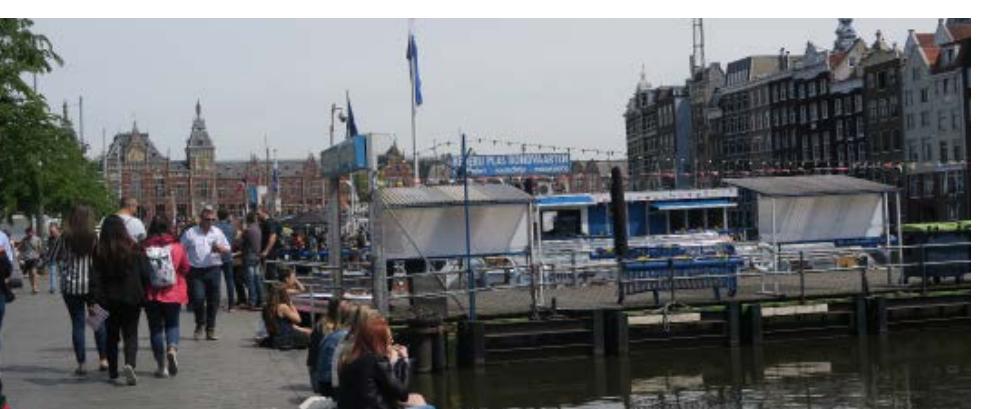
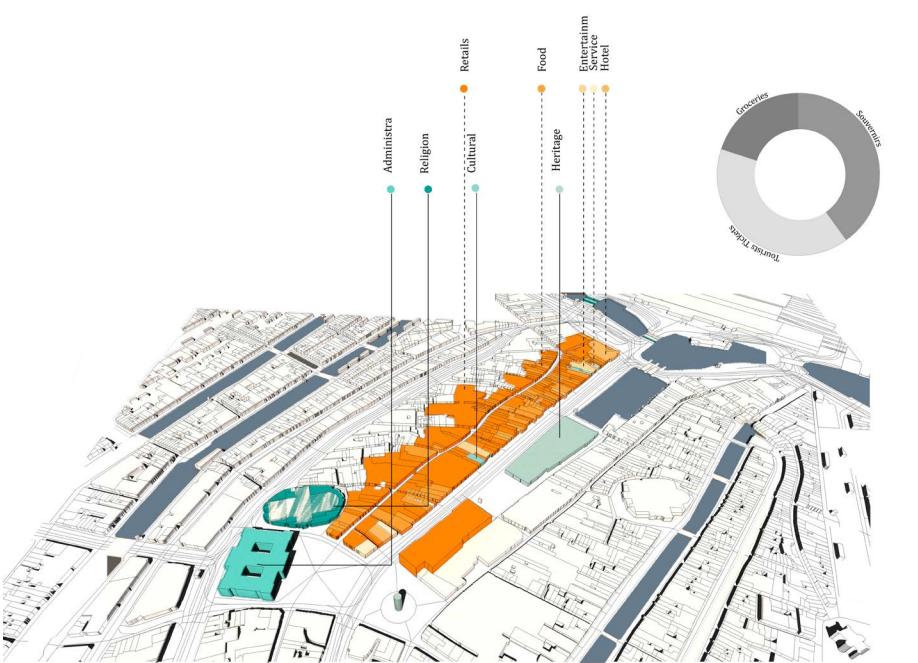


6.2.16 Predicted Future

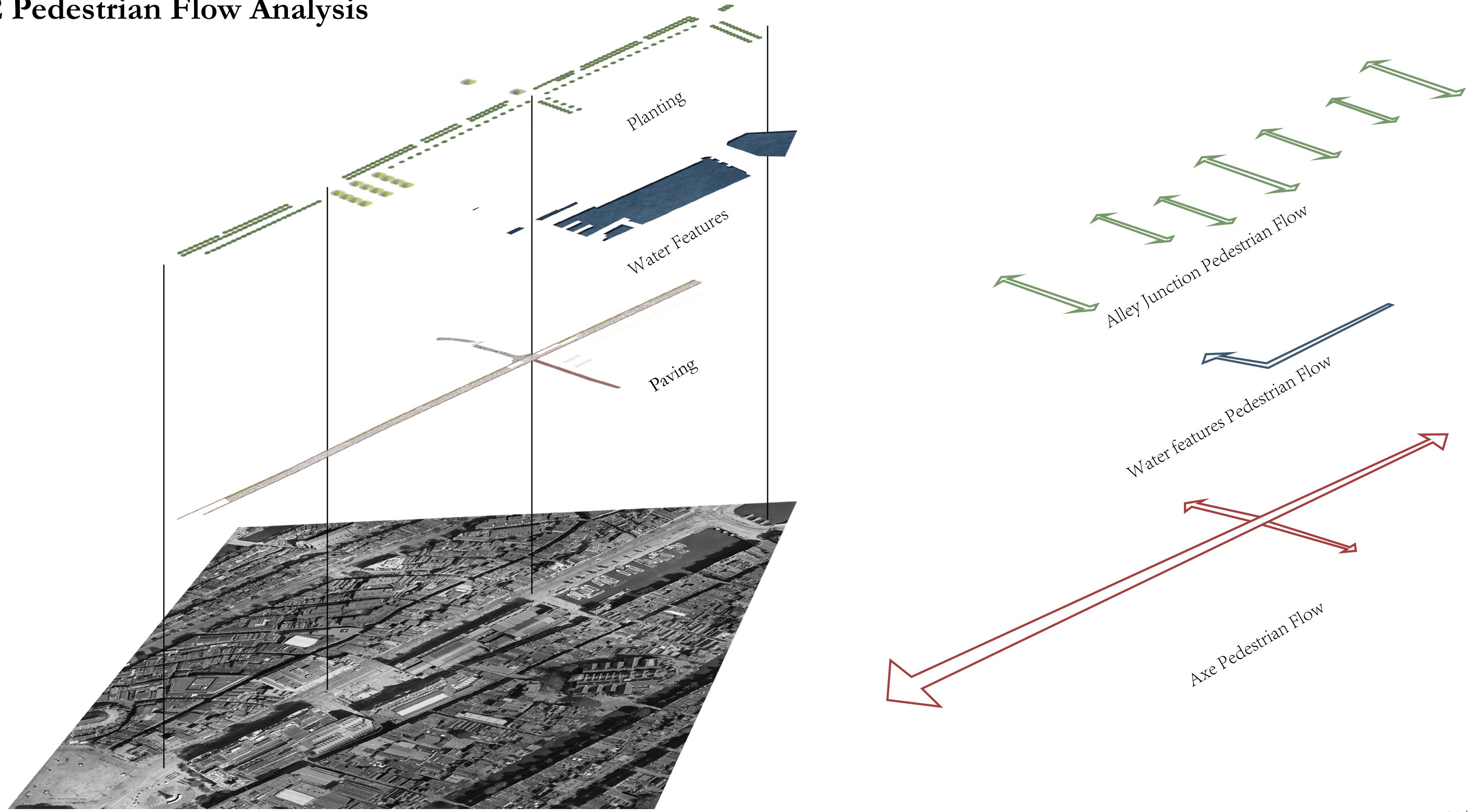


6.3 Damrak Street

6.3.1 Structure



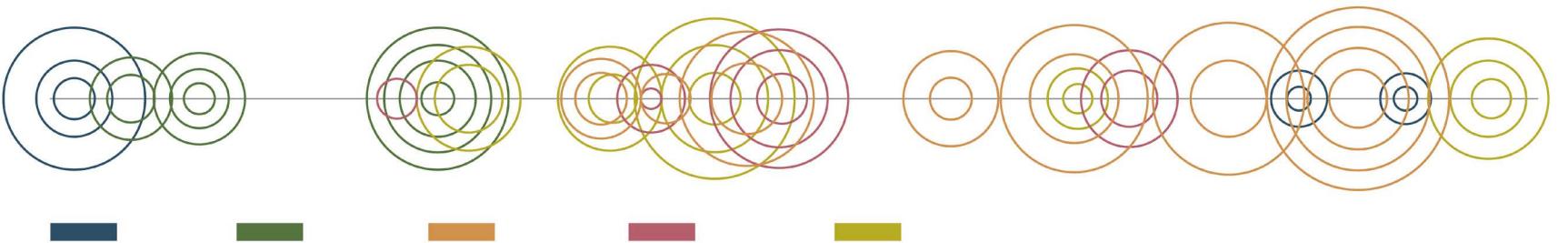
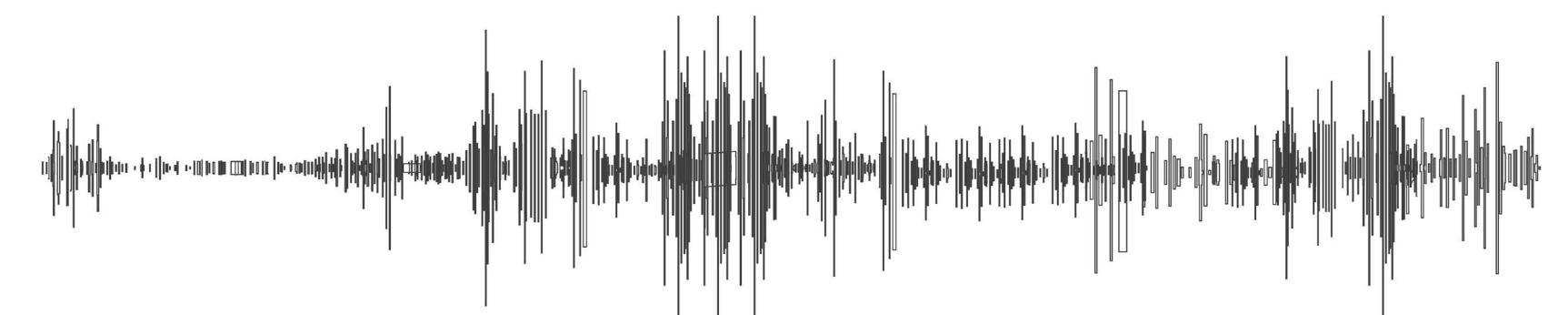
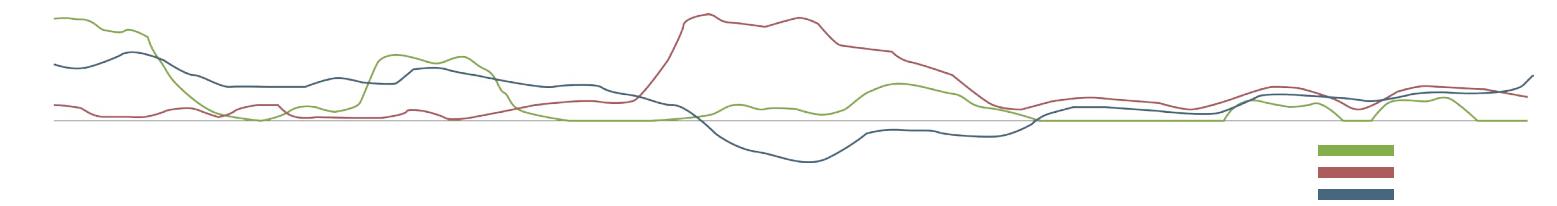
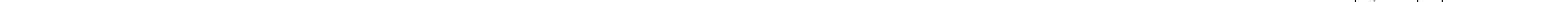
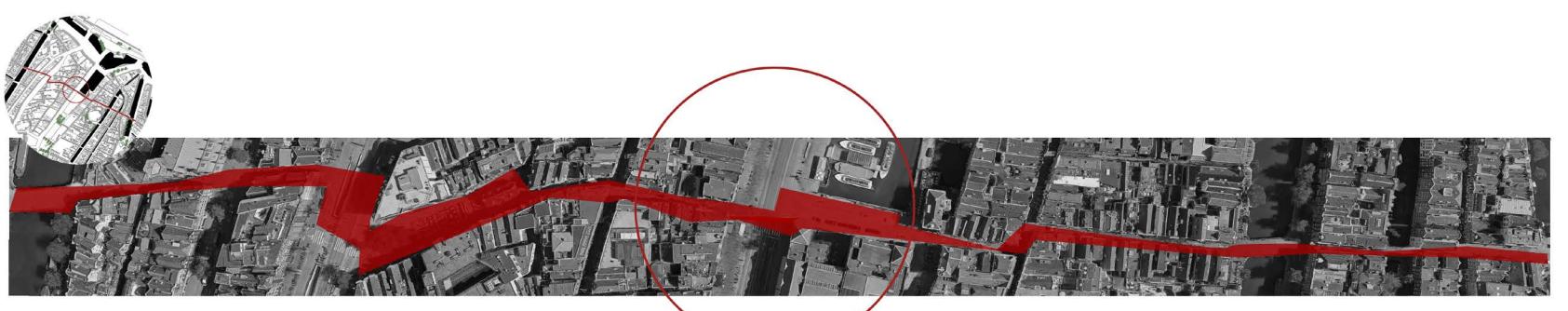
6.3.2 Pedestrian Flow Analysis



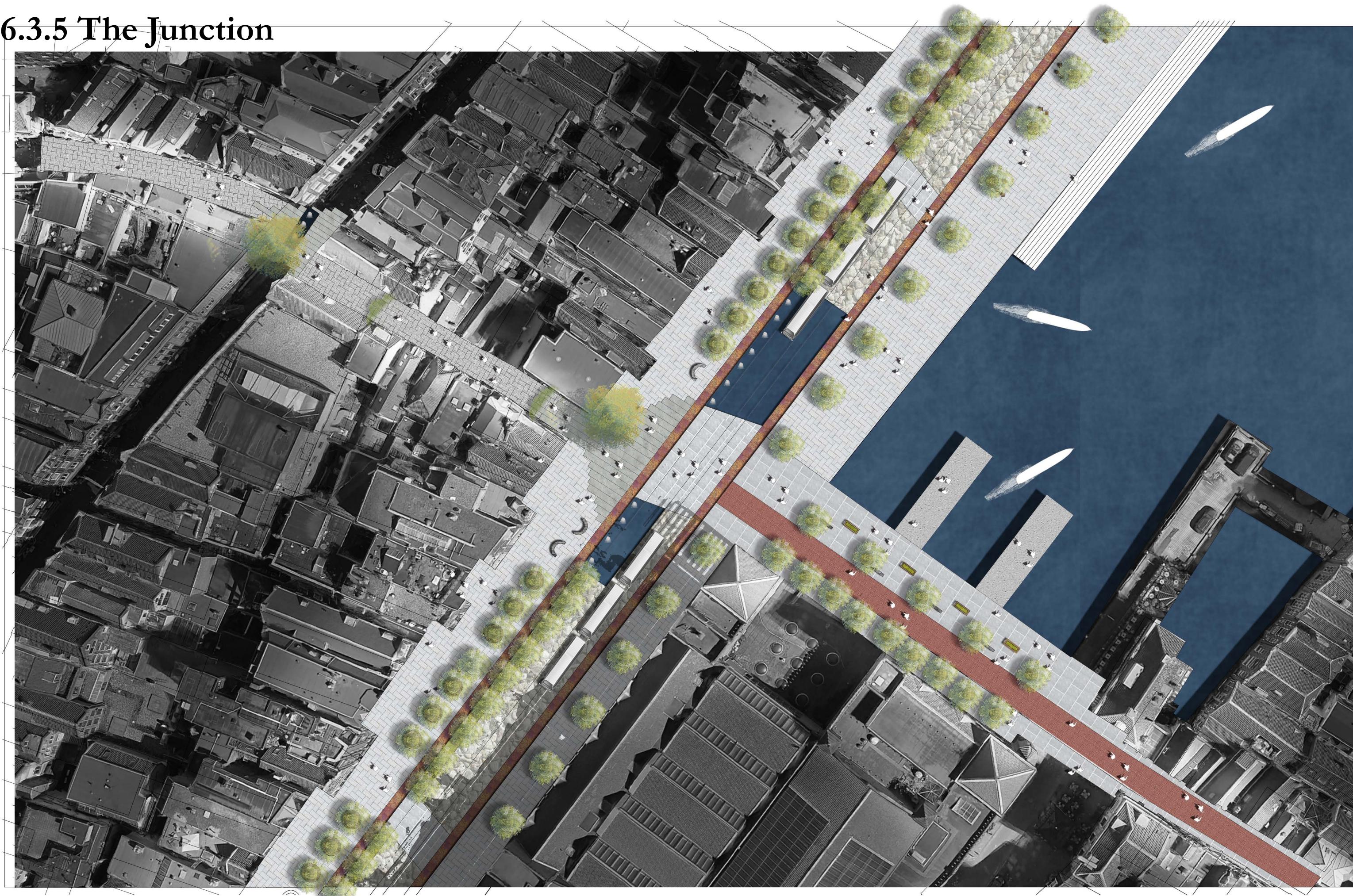
6.3.3 Water Management



6.3.4 Horizontal Connection Analysis



6.3.5 The Junction





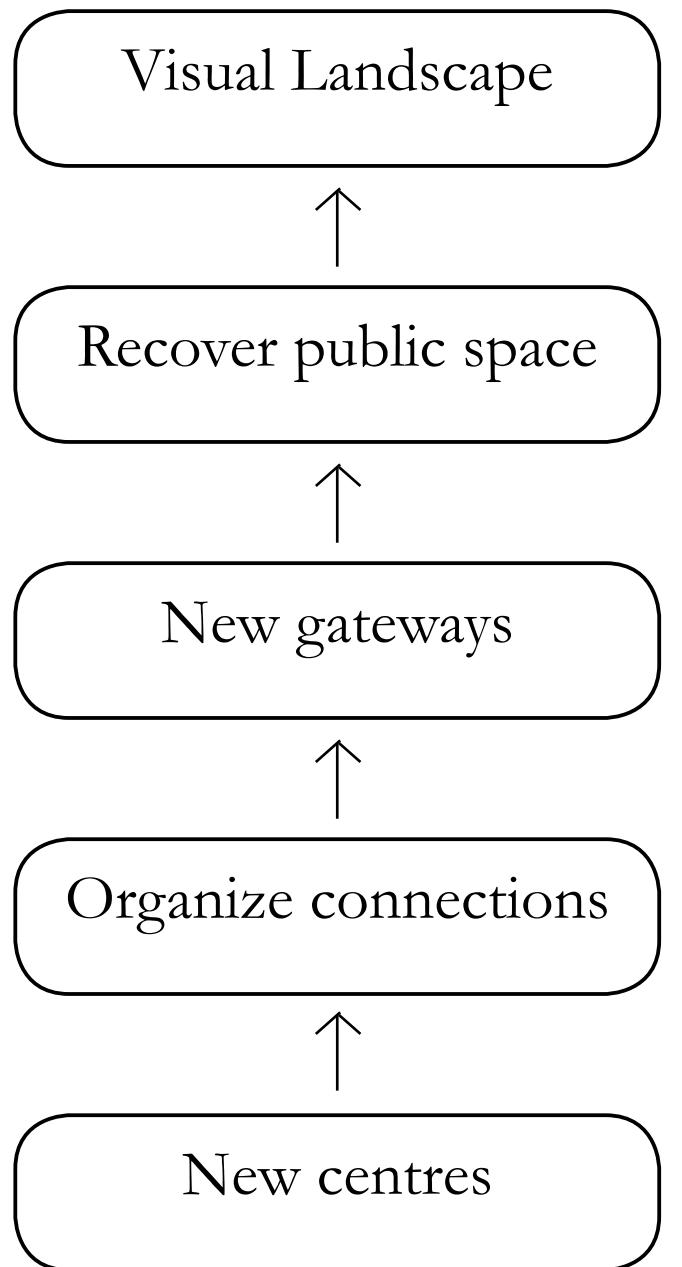






7. Conclusion

7.2 Applicable Principle



Thank You!