



LDE STUDENTHUB LEIDEN CITY

28-31st May 2024- Makerscentrale

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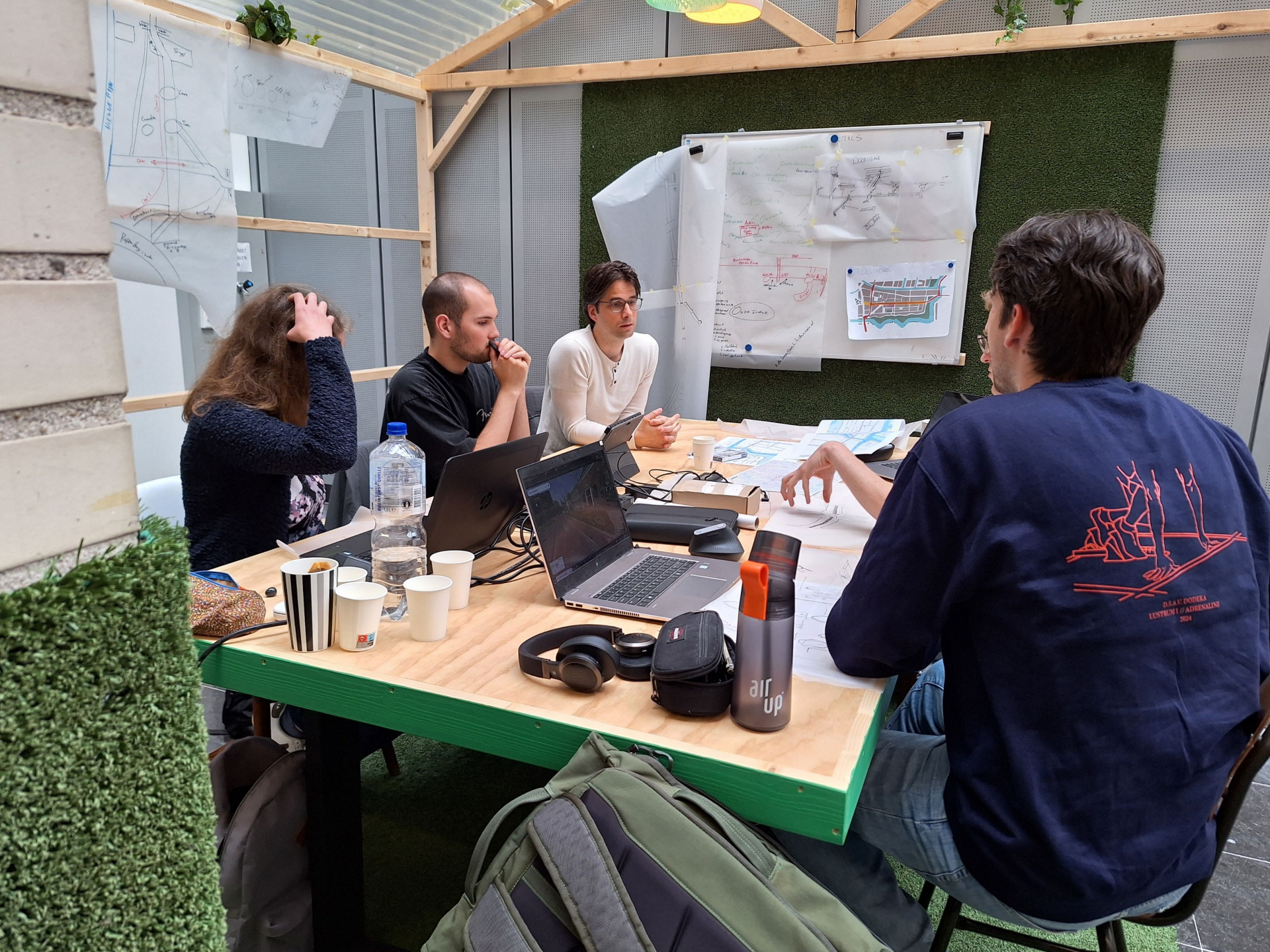
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Alina Bruder



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Antje Ras, Frank Kalshoven,
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Paul Waalboer
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Marius van Putten
Joost Schrieke
Frank Kalshoven
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Project Kenniststad Leiden

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Collaboration:
University Leiden
(Applied Archaeology/

University of Applied
Sciences Saxion

TU Delft (Landscape
architecture/
Urbanism

Zes nieuwe projecten in de Erfgoed Deal

Nieuwsbericht | 04-10-2023 | 10:04

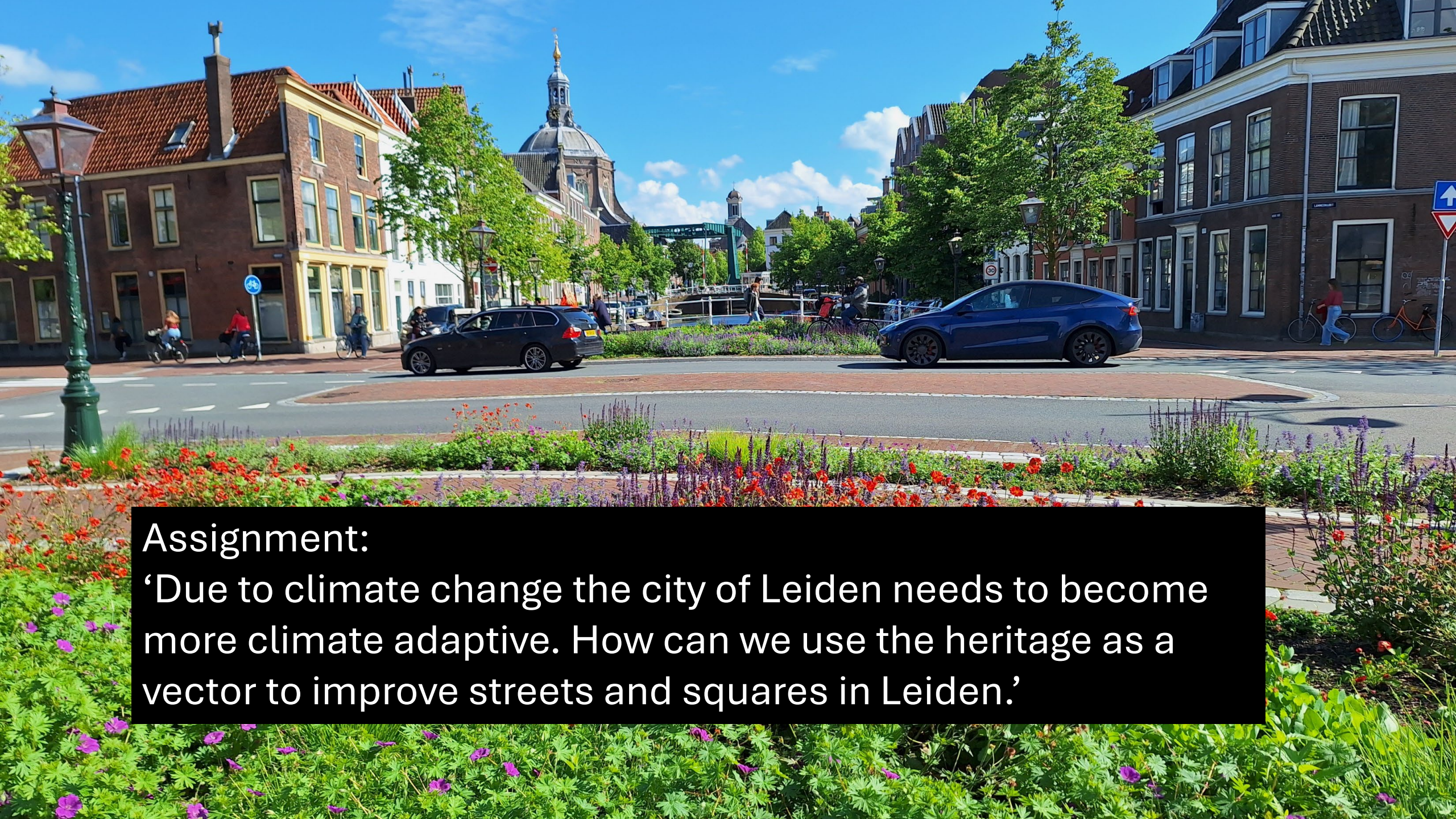
In de zevende ronde van de Erfgoed Deal zijn zes nieuwe projecten toegevoegd aan het programma. Dit brengt het totaal aantal projecten nu op 42. Binnen de Erfgoed Deal maken verschillende partijen afspraken over het behoud en het gebruik van erfgoed bij de grote ruimtelijke opgaven van dit moment.

Klimaatbestendige Leidse binnenstad

De historische binnenstad van Leiden is het economische en toeristische hart van de regio. Door de dichte bebouwing, maar ook door vaak stenige inrichting is de binnenstad vatbaar voor hittestress. De vraag is hoe de historische binnenstad ook in de toekomst aantrekkelijk blijft voor bewoners en bezoekers en tegelijkertijd de unieke historische kwaliteiten versterkt worden. Gemeente Leiden gaat samen met kennispartners onderzoek doen naar de klimaatopgave voor de binnenstad en naar de historische groen- en blauwstructuren. De bevindingen van de onderzoeksfase worden toegepast in een toolbox waarmee in drie verschillende uitvoeringsprojecten gewerkt wordt aan de Leidse grachtenstad van de toekomst.

(Dit project valt onder het thema water en bodem.)

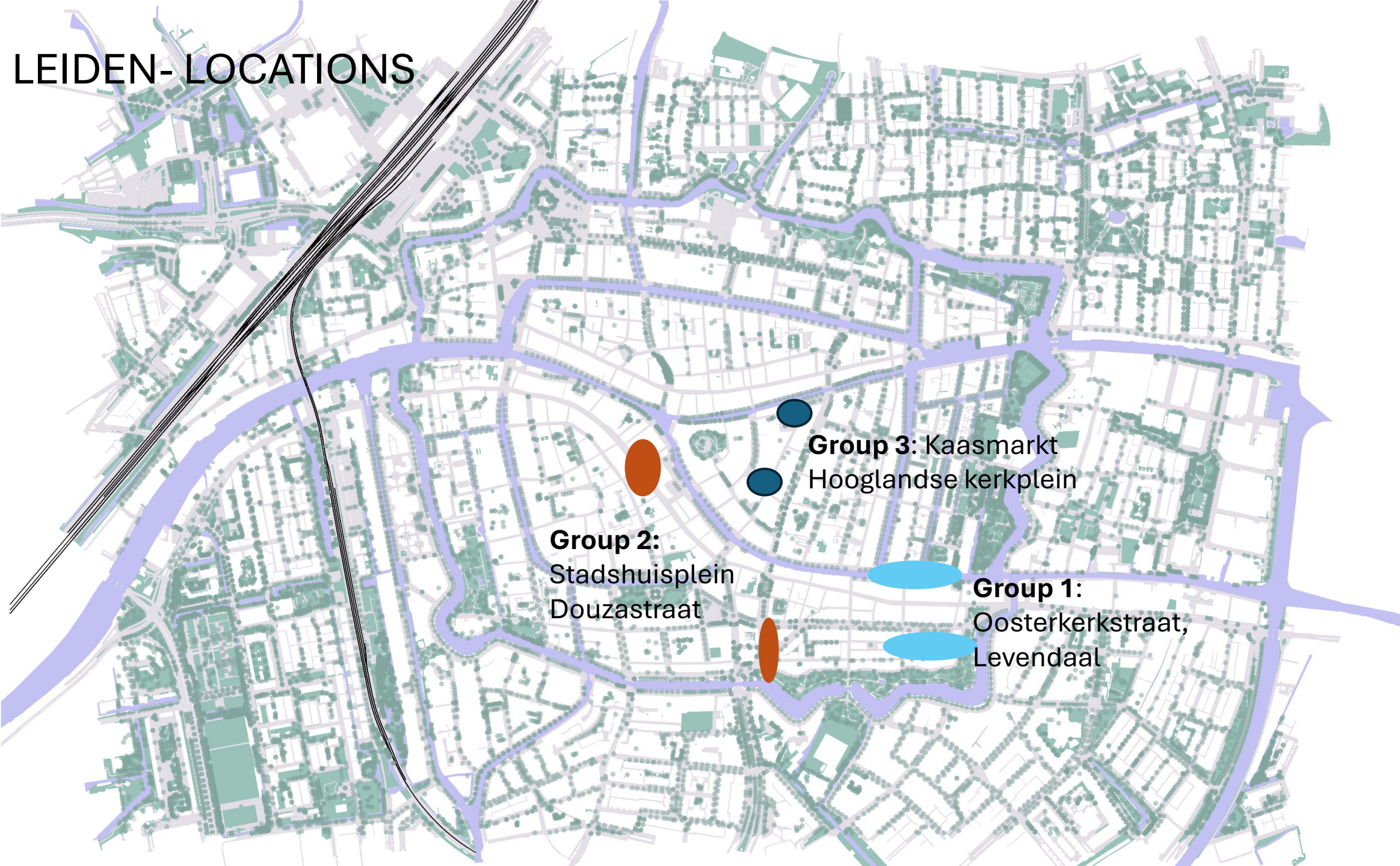




Assignment:

‘Due to climate change the city of Leiden needs to become more climate adaptive. How can we use the heritage as a vector to improve streets and squares in Leiden.’

LEIDEN- LOCATIONS



3 groups

Group 1: **‘Breaking with history’**

Group 2: **‘Design through disaster’**

Group 3: **‘A vision for a greener, open, new, old Leiden’**

Breaking with history

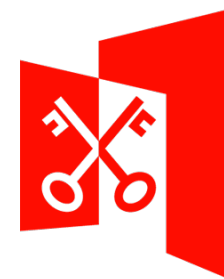
Levendaal & Oosterkerkstraat

Presented by: Alina Bruder & Julius Knoester

Other contributors: Luka Stuurman, Robin van Wolfswinkel & Jasper Kooiker



**Universiteit
Leiden**
The Netherlands

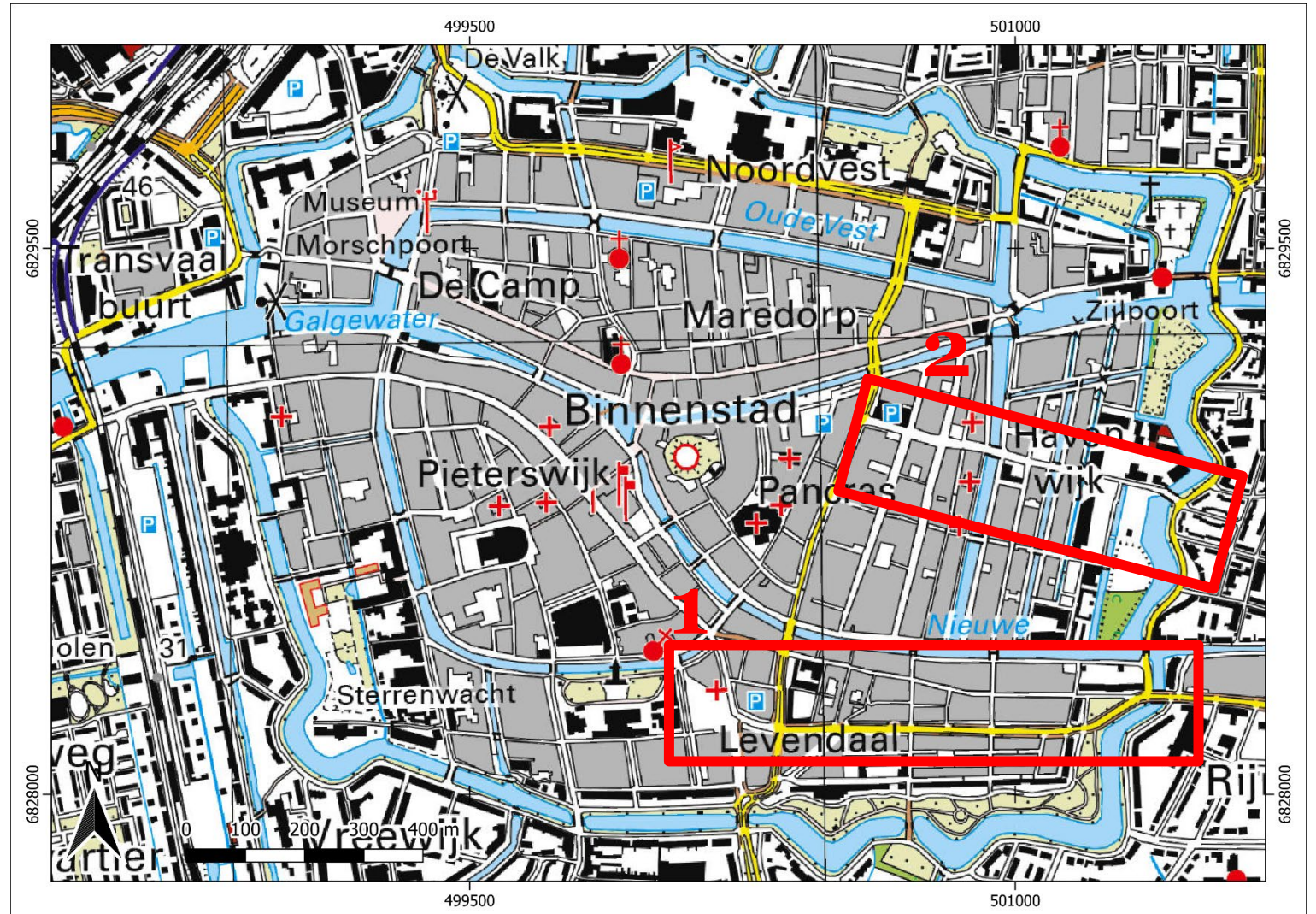


Leiden

Discover the world at Leiden University

The two streets

1. Levendaal
 2. Oosterkerkstraat (Ir. Dreissenstraat)
- Both connected through a shared theme of 'breaks'



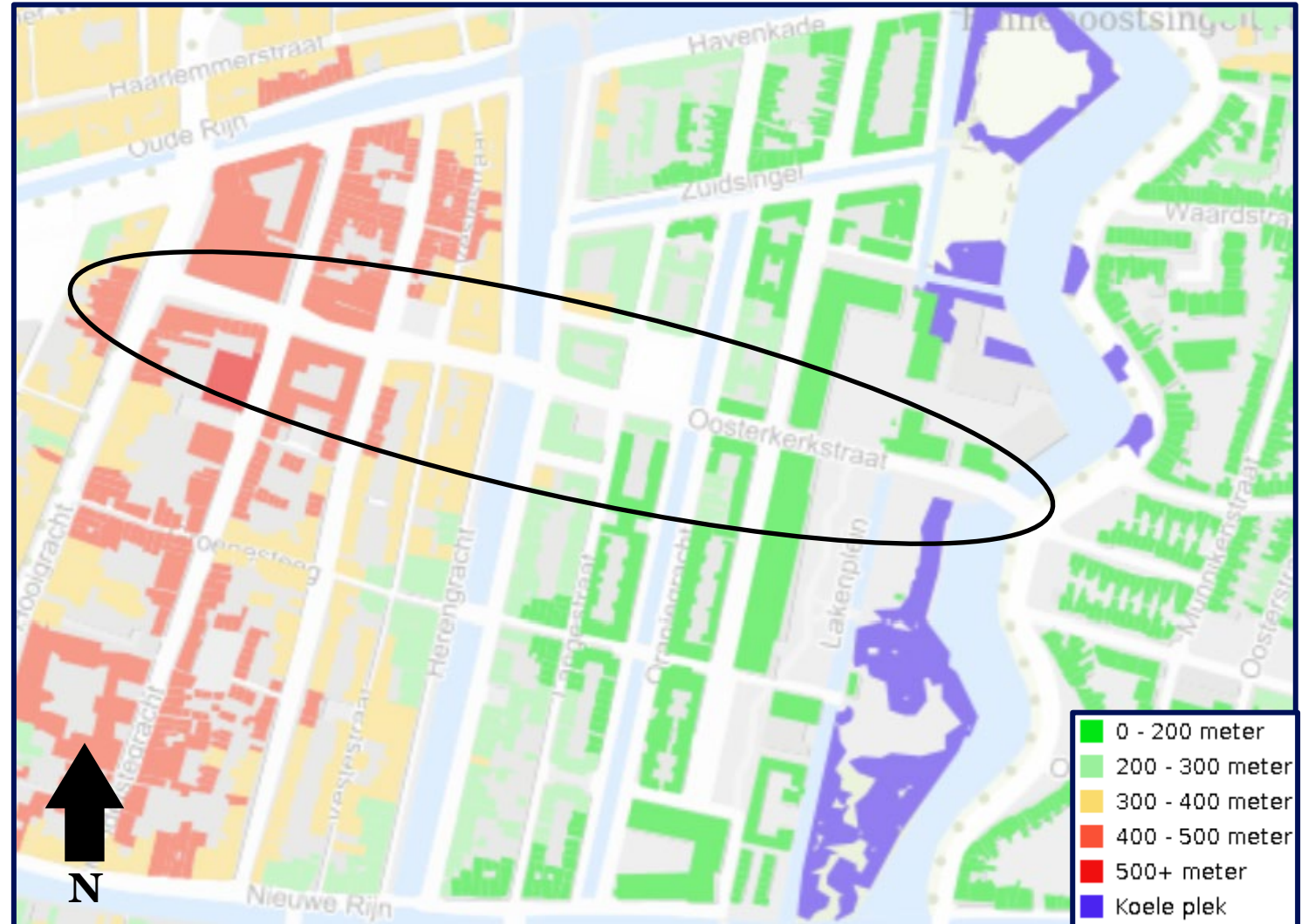
Climate effects 1/2

- Both areas exhibit high-water retention
 - In 2050
- They also have a high perceived temperature
 - In 2050



Climate effects 2/2

- In the Ir. Driessenstraat there is a lack of greenery
 - 300-500m away



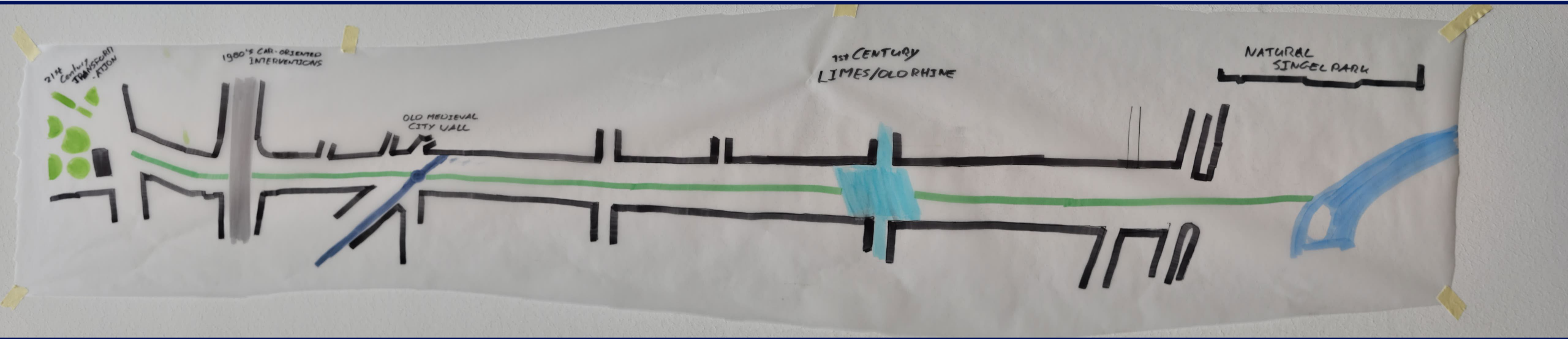
Levendaal

Theme: Historic breaks

- The old canal (dug in 1386 - 1389)
 - Removed between 1934 and 1936
- Crosses the Roman 'Limes'
- On the border of the old city wall



Overview of the streets/changes



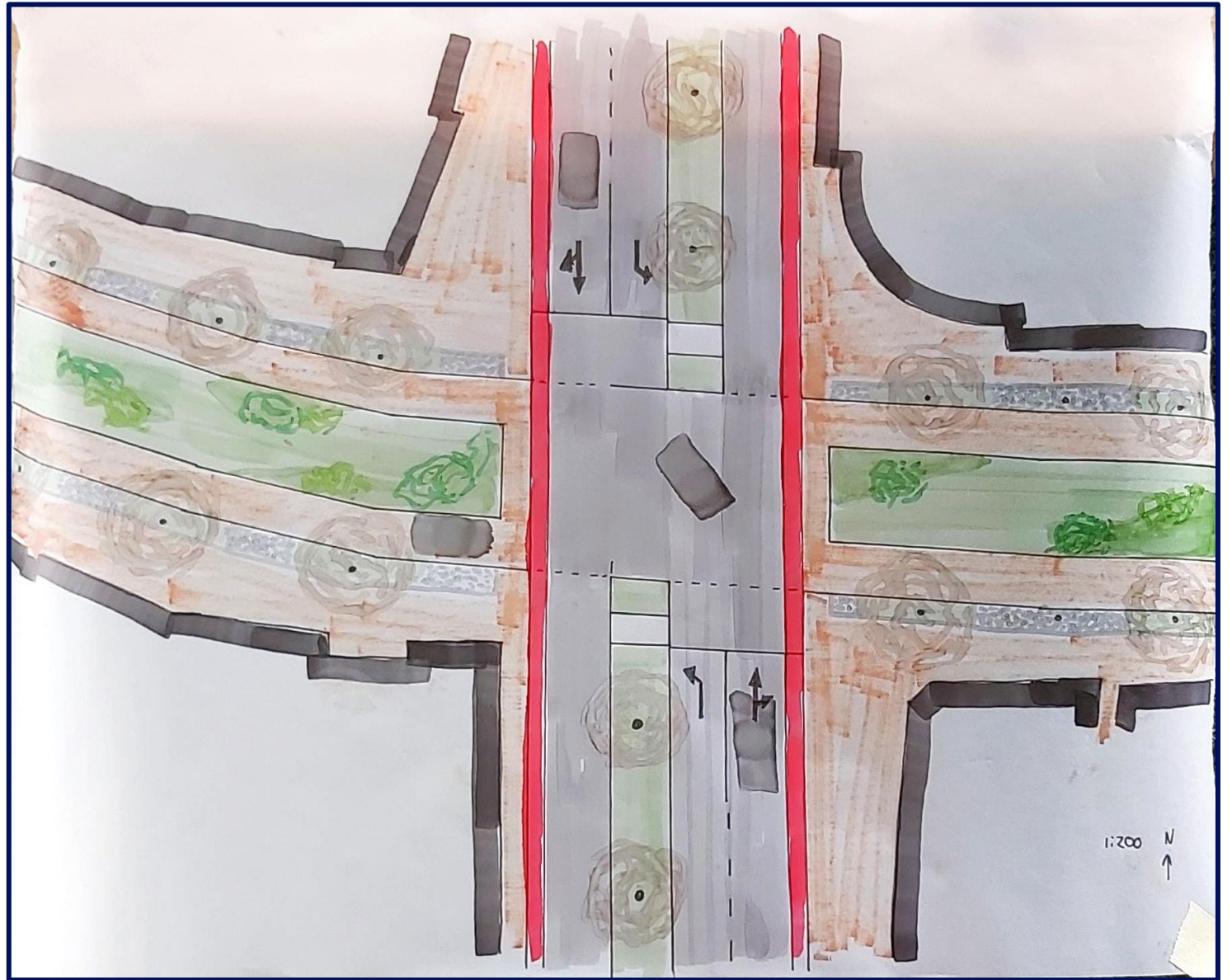
Levendaal canal

- Standard street profile Levendaal
- Representing the old canal



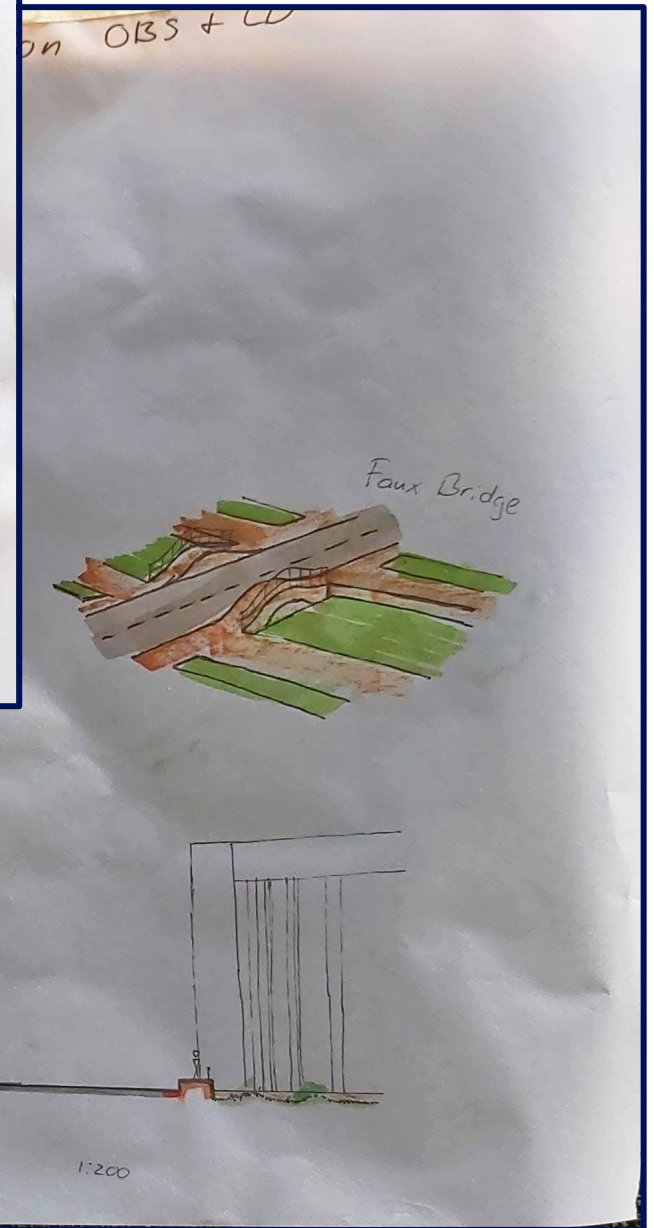
Levendaal

- Oranjeboomstraat intersection
 - (Hooigracht)
 - Breakthrough theme
- Next slide



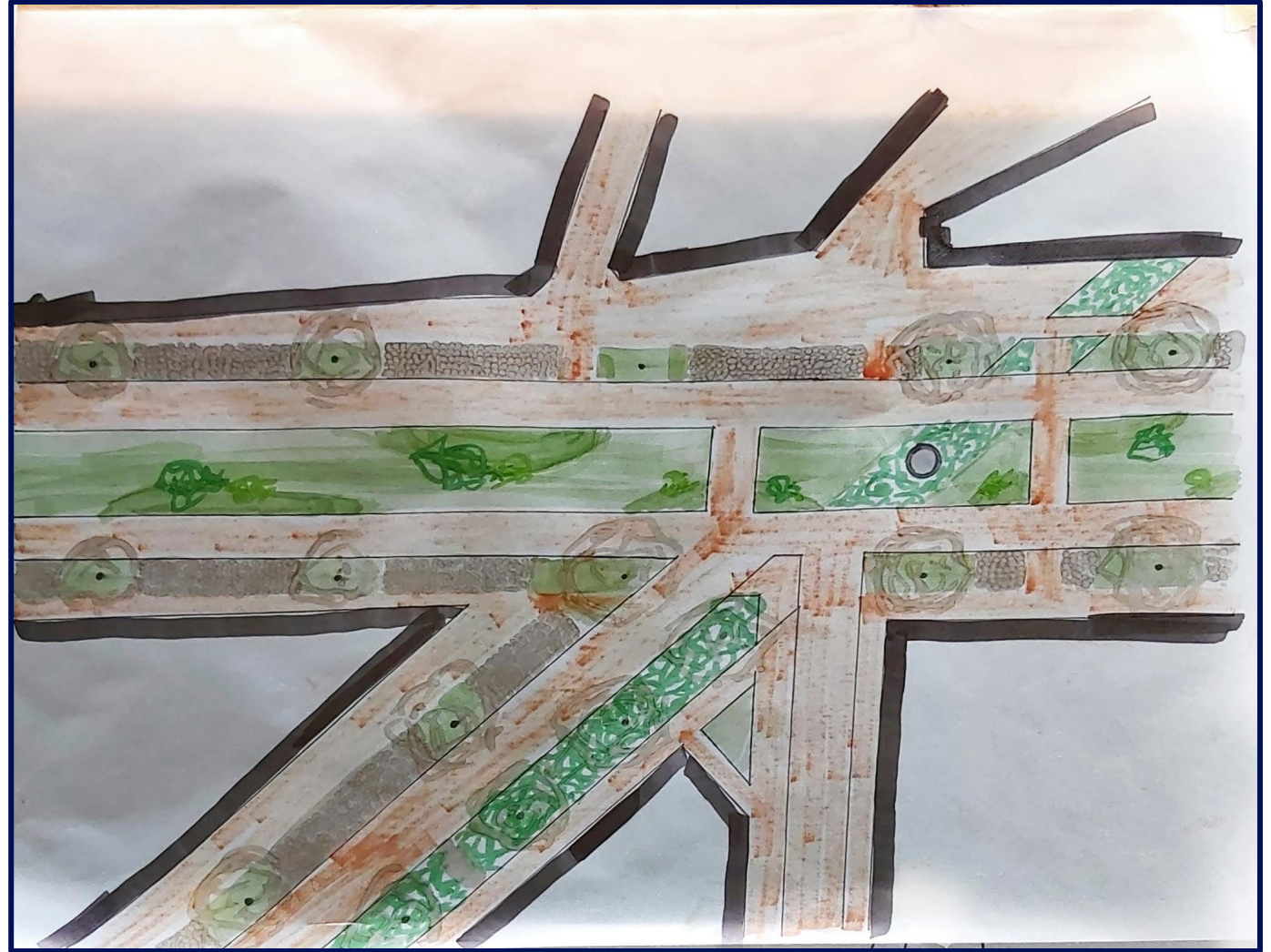
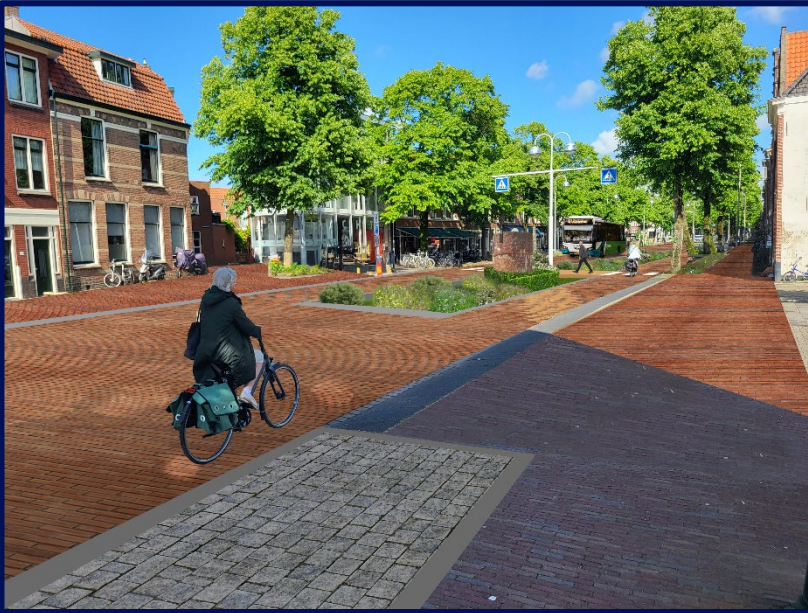
Levendaal

- Bridge design



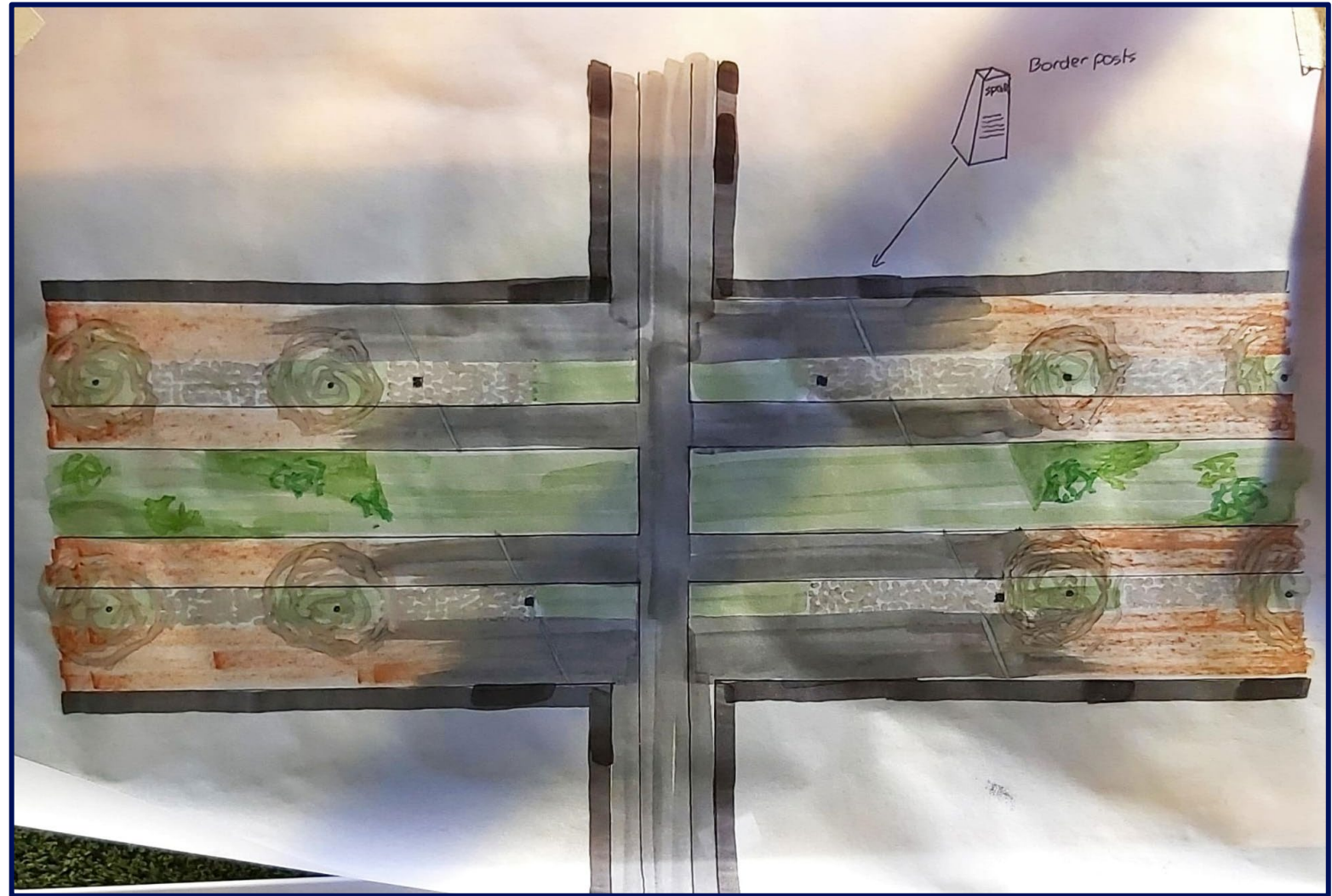
Levendaal/Gerengracht

- A straight green stroke
- The 'Levendaalsetoren'
 - 80 years war



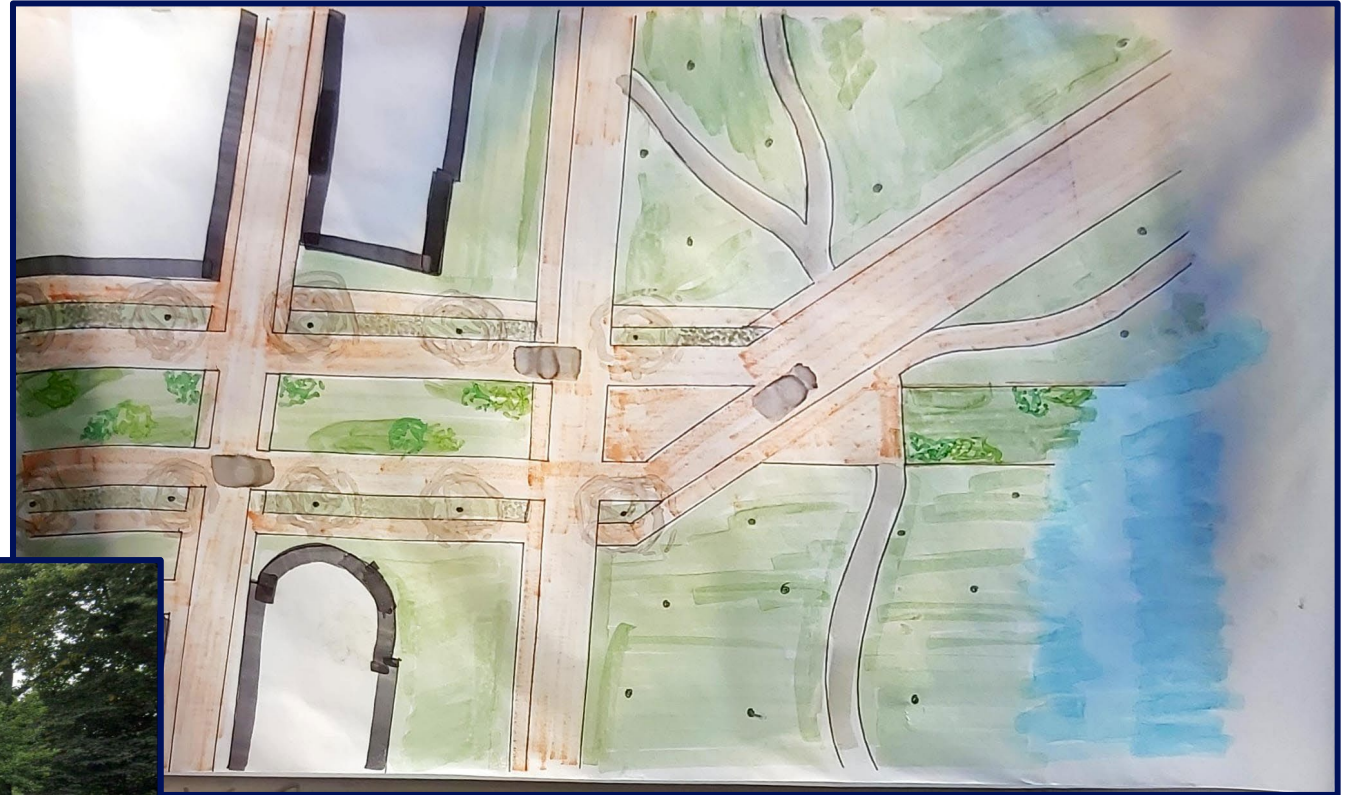
Levendaal limes

- The limes border
 - Represented with a brick gradient and a 'Roman' border stone



Levendaal/Plantagelaan

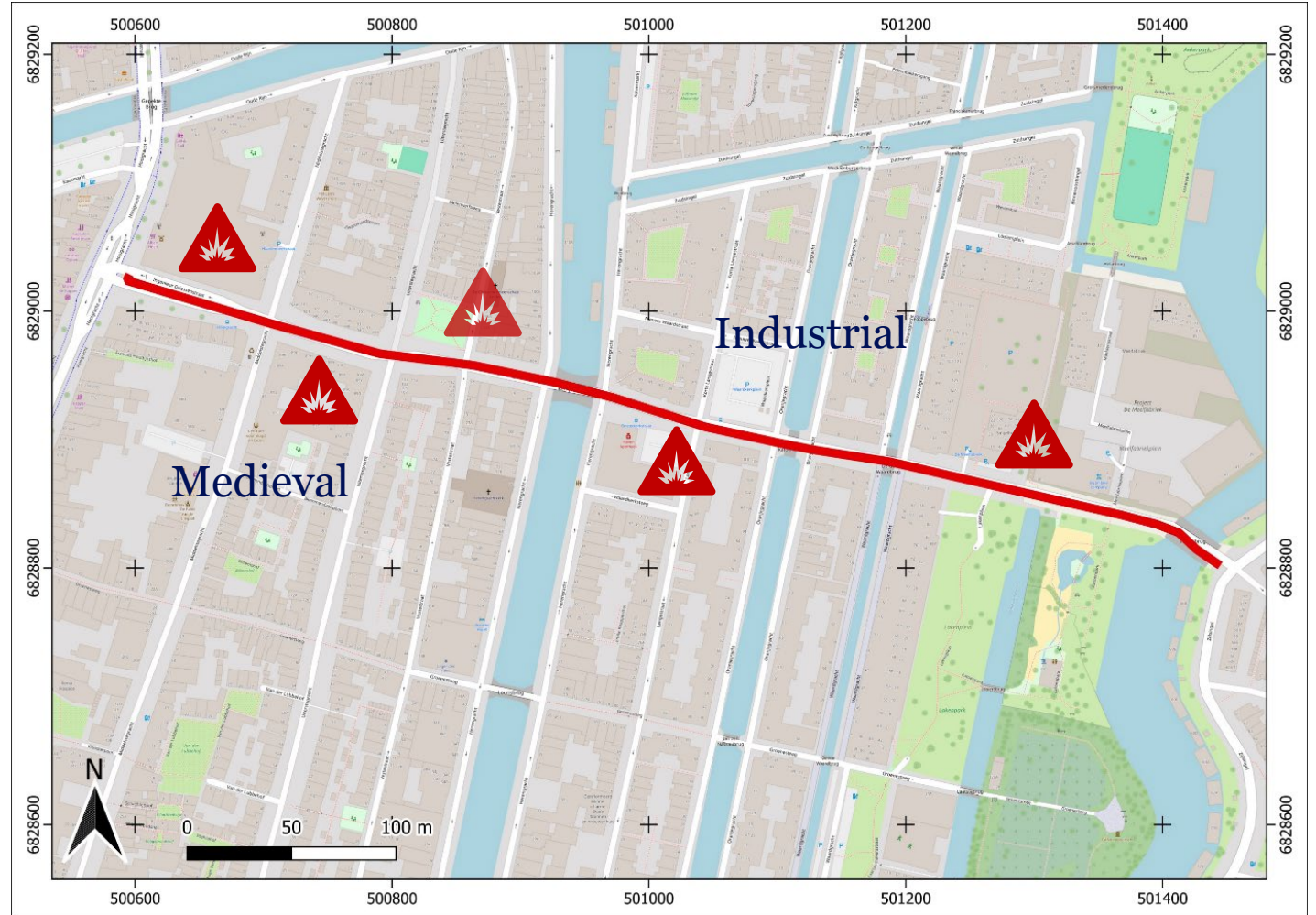
- Connection
- Rejoining of traffic
- Water drain
 - Into the Singel



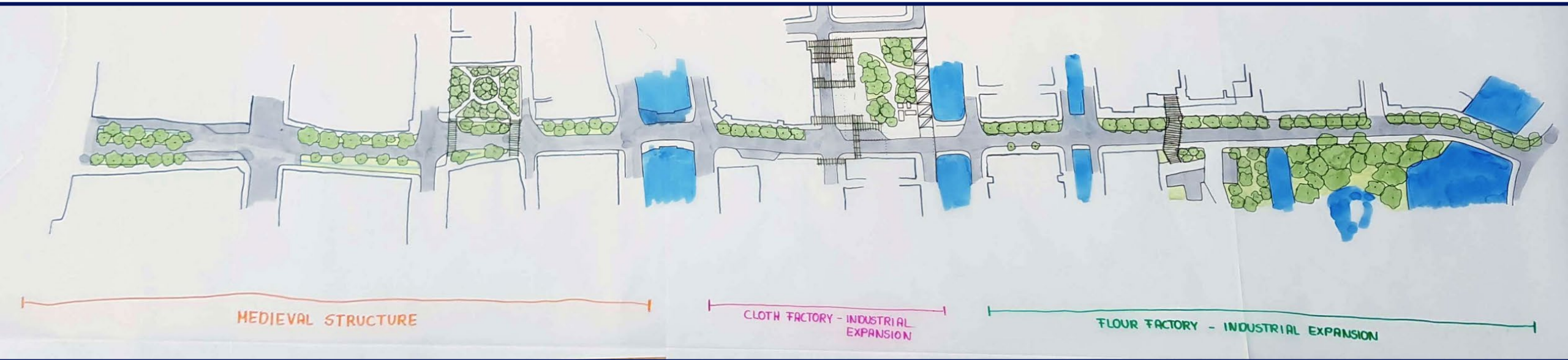
Oosterkerkstraat/Ir. Driessenstraat/Kerksteeg

Theme: Literal breakthroughs

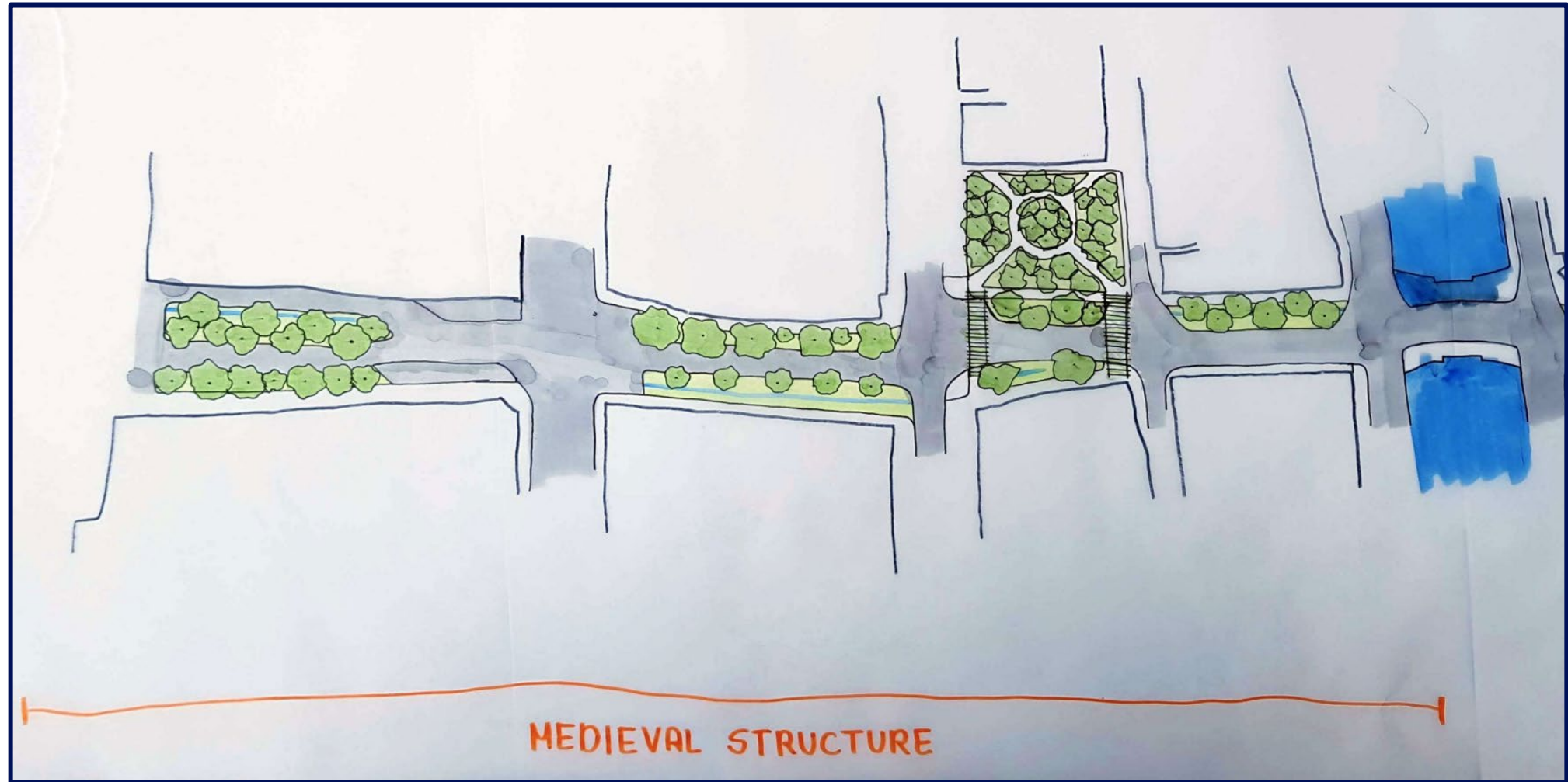
- Started in 1938
- Literal breakthroughs
- Traffic road 1960s
- Currently not that busy



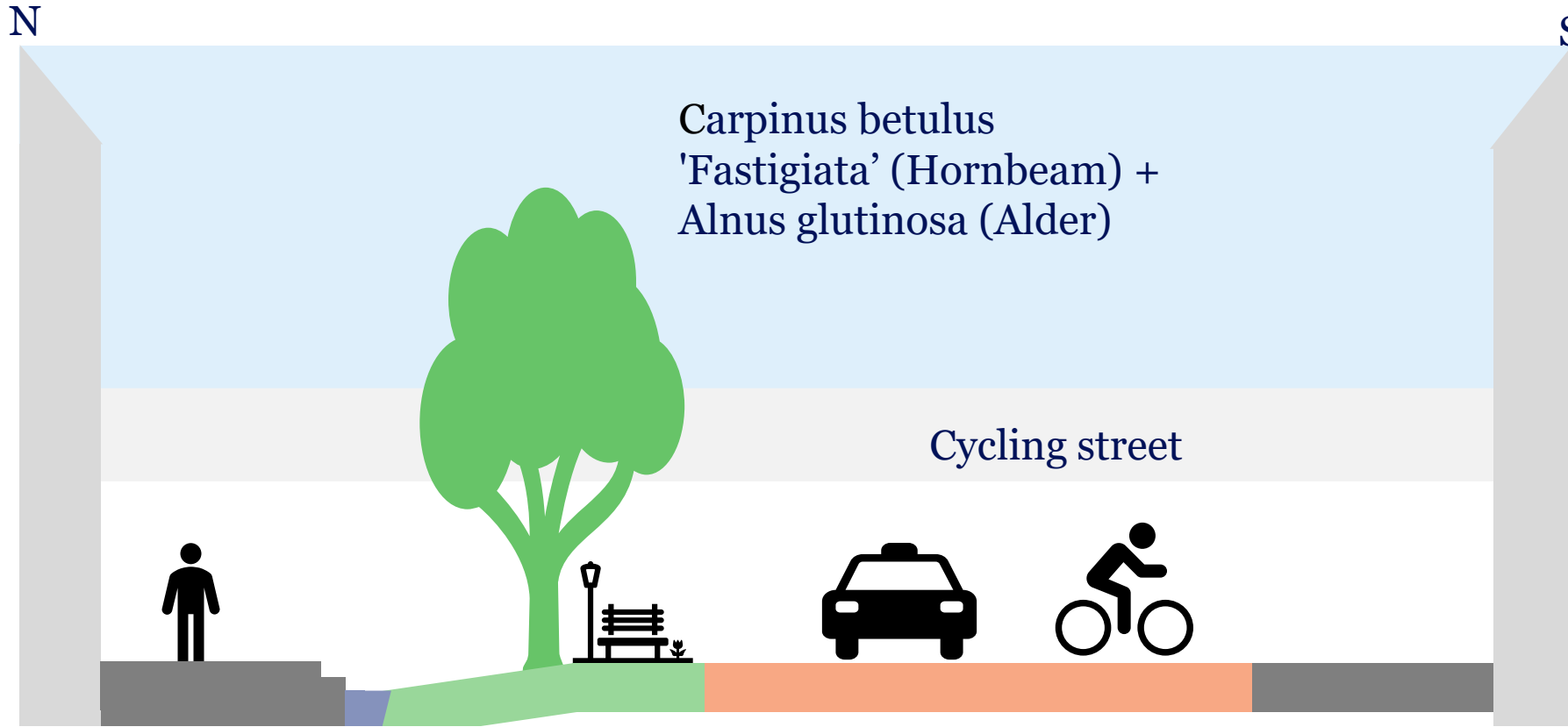
Overview of the streets/changes



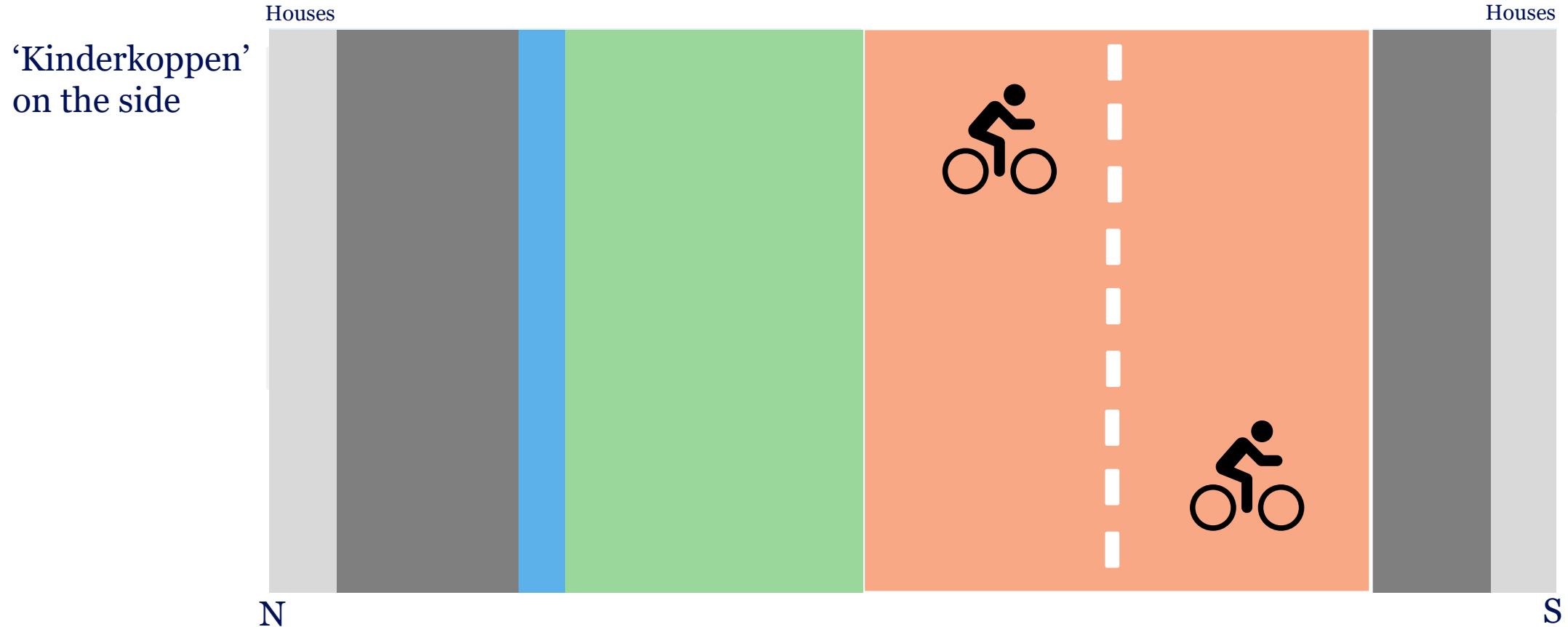
Medieval



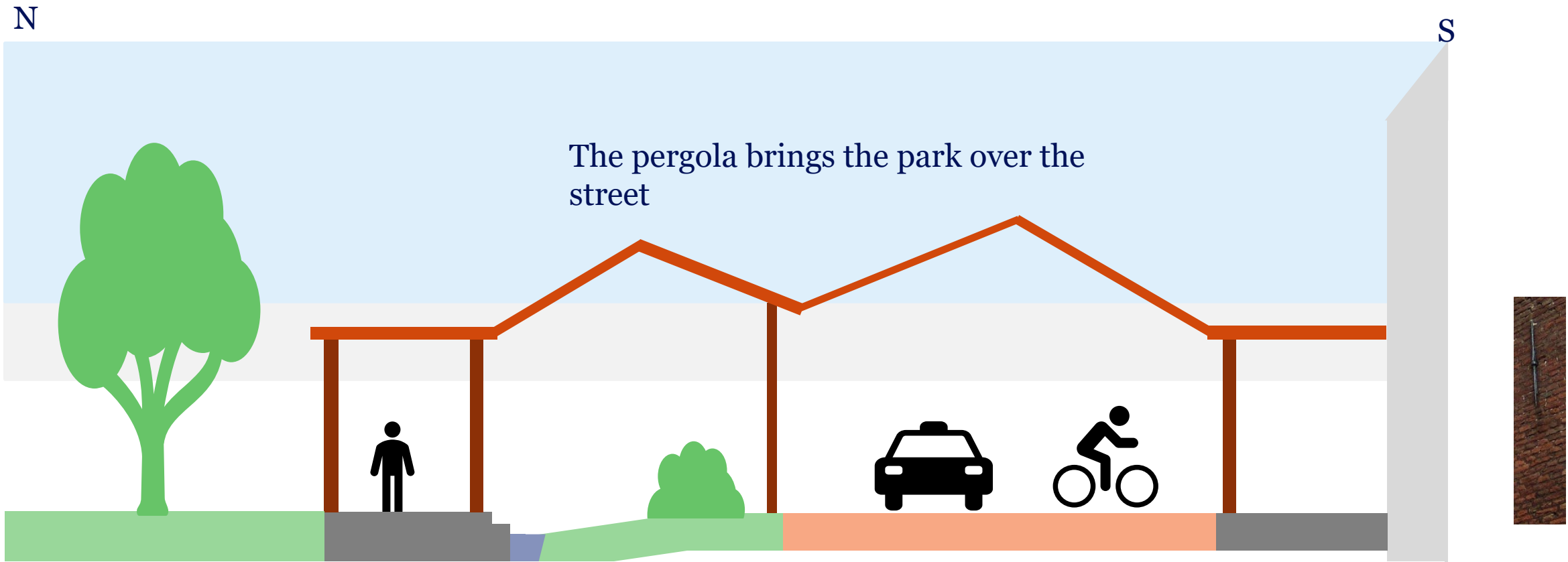
Design 1: Late Medieval cross section



Design 1: Late Medieval street top view



Design 1.1: Late Medieval cross section (next to park)



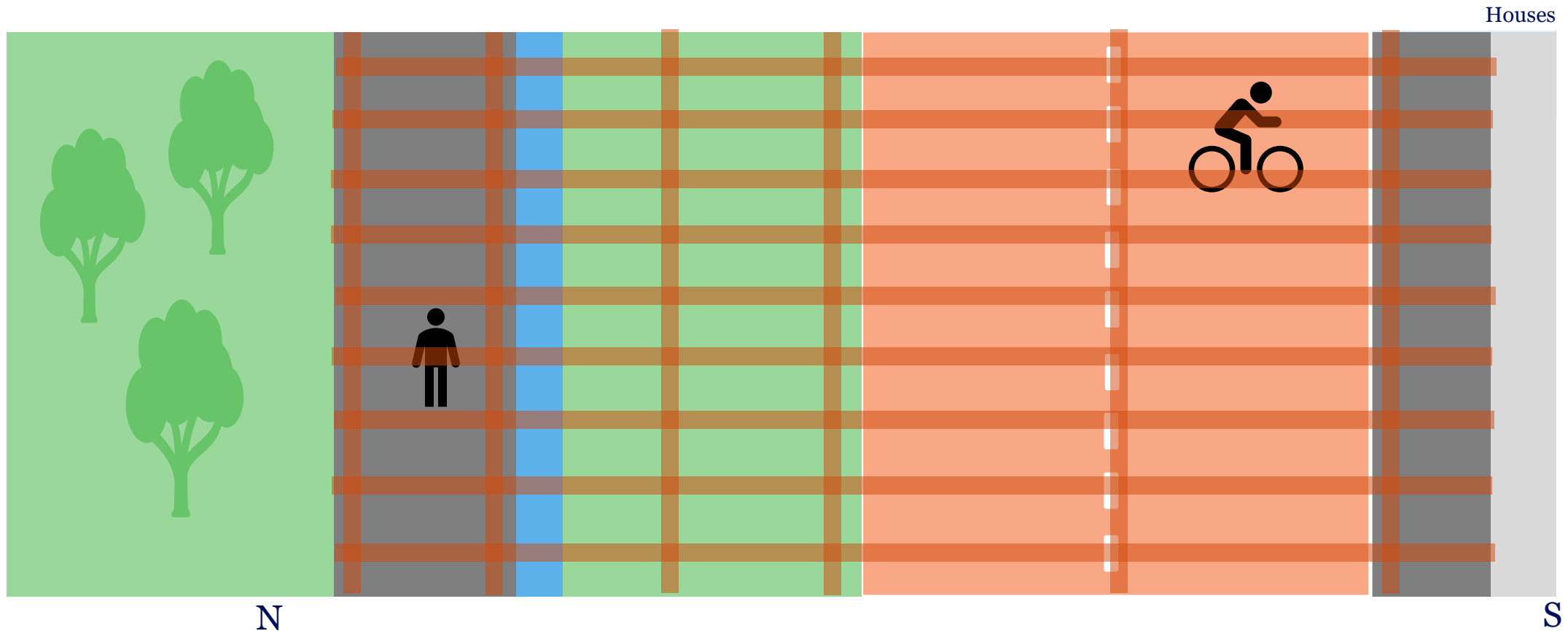


Ir. Driessenstraat in 1957

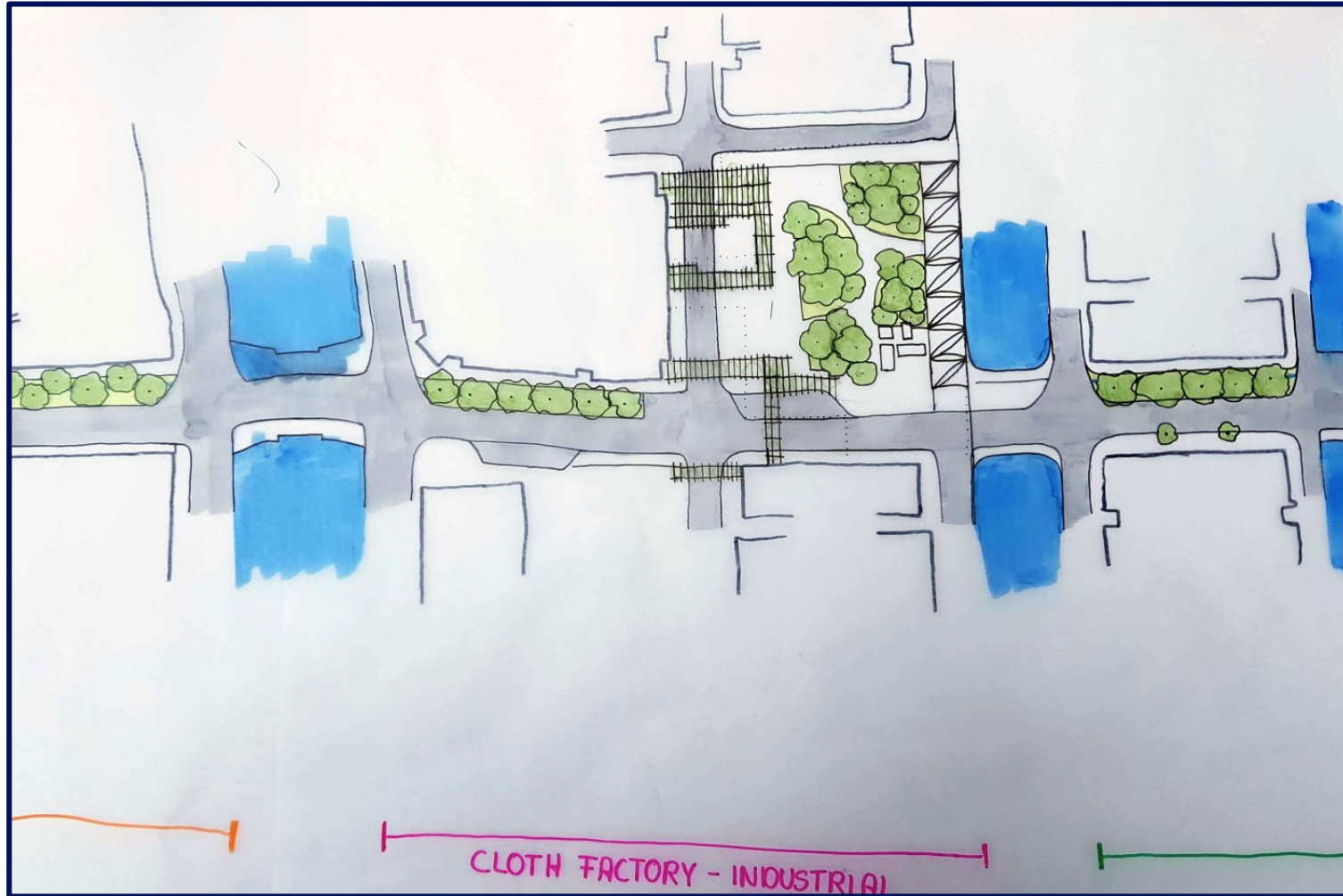


Design 1: top view

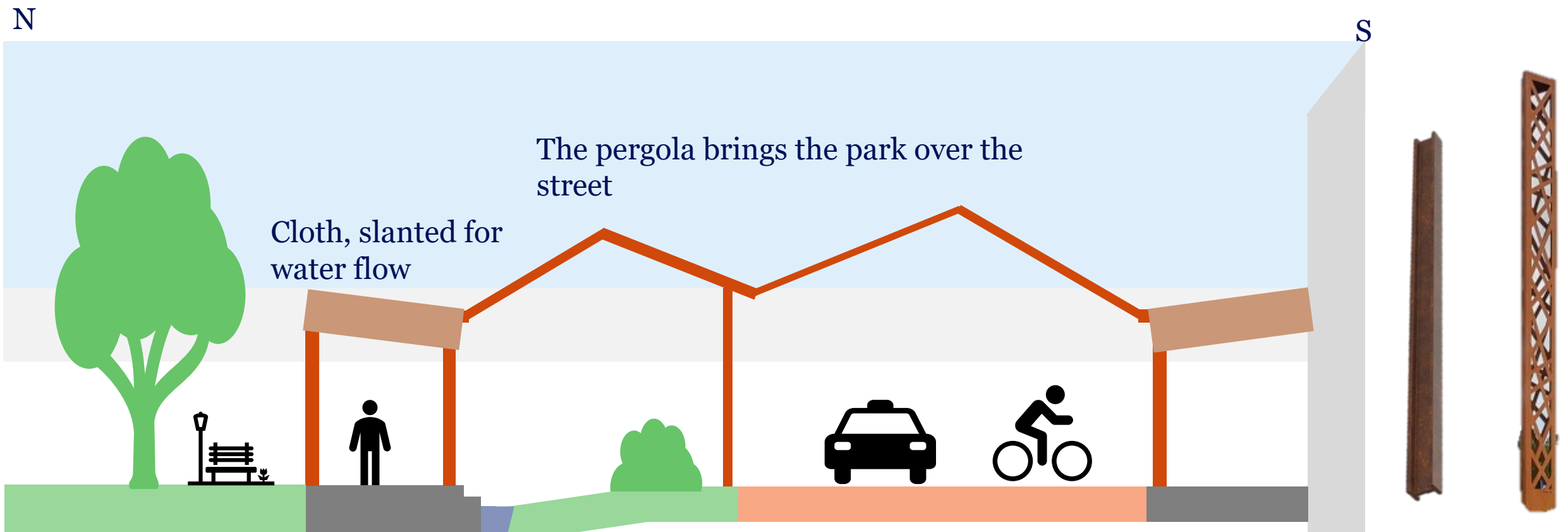
Lonicera periclymenum
(honeysuckle; medieval medicine)



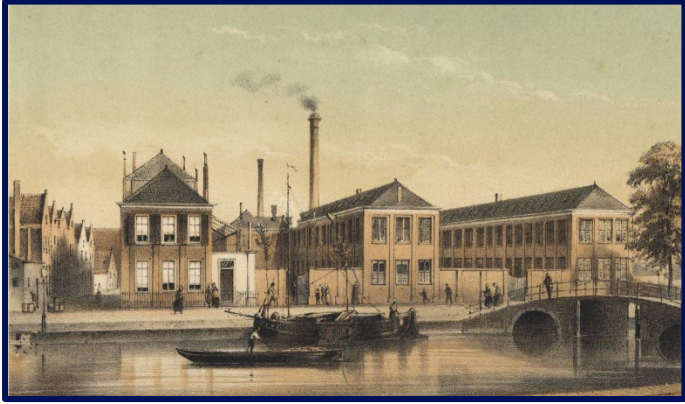
Cotton factory



Design 2: Cotton factory cross section (next to park)



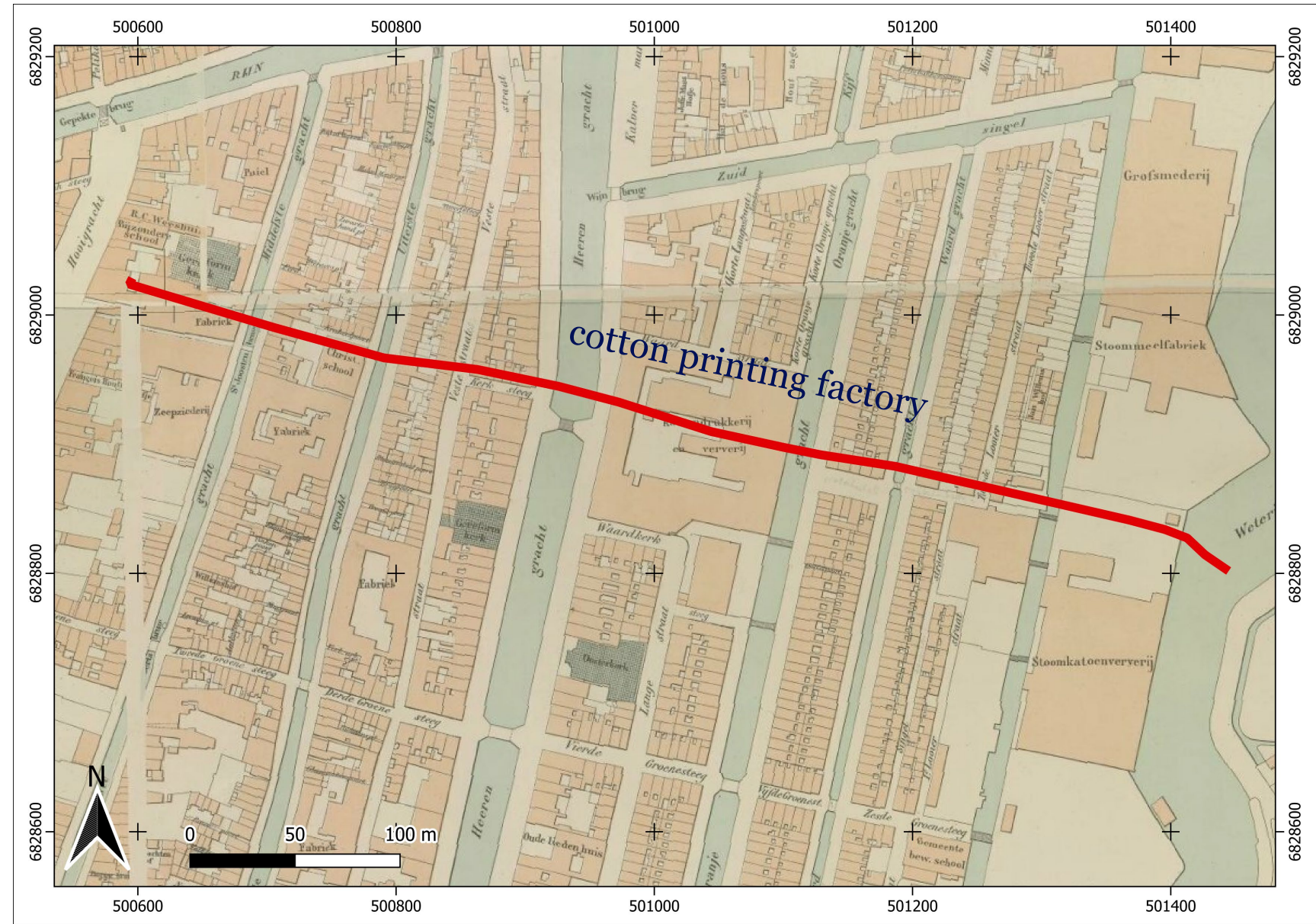




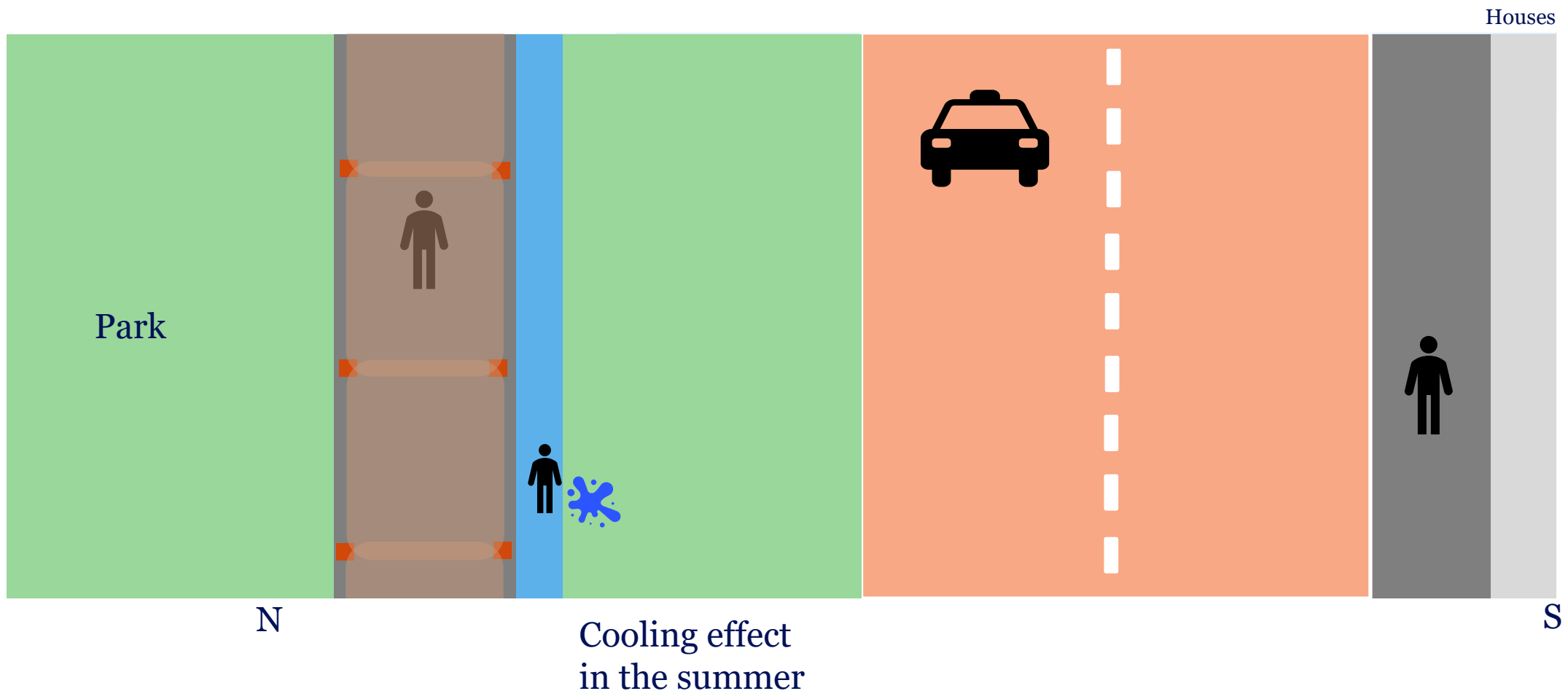
The 'Katoenfabriek'



The Oosterkerk next to the cotton factory



Design 2: Cotton factory top view

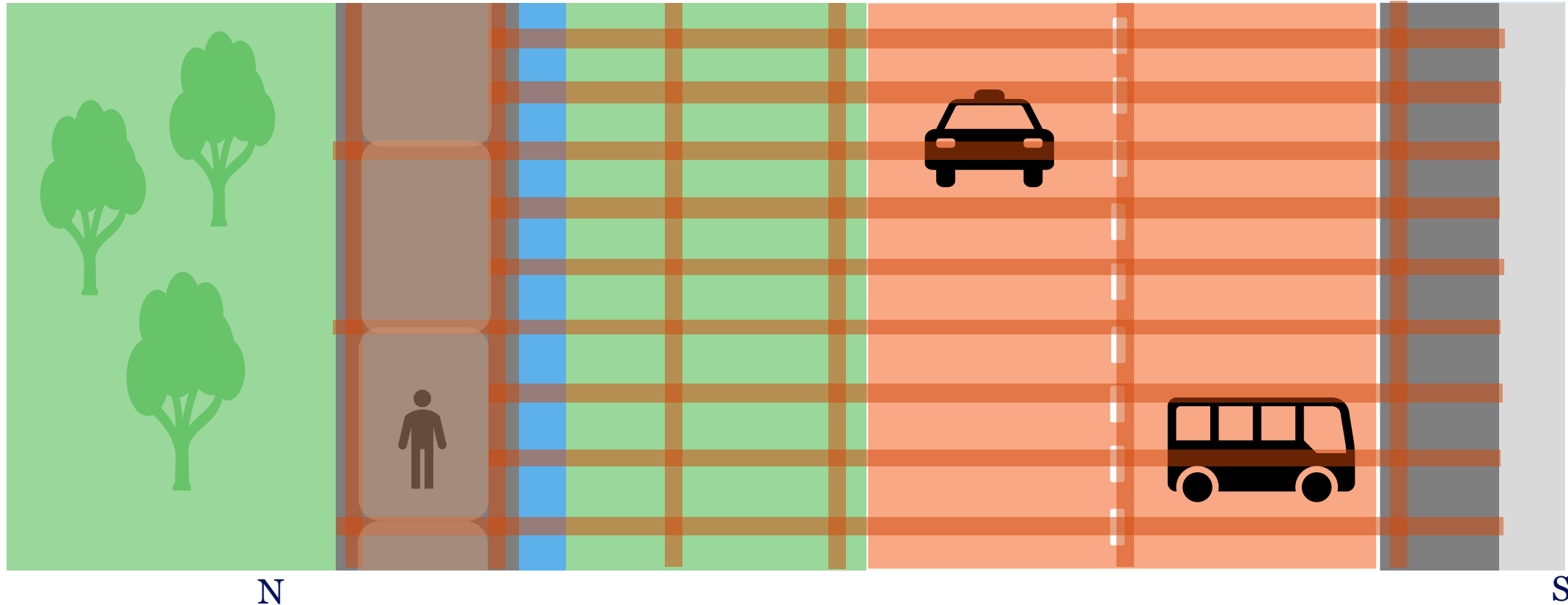


Design 2: Cotton factory park top view

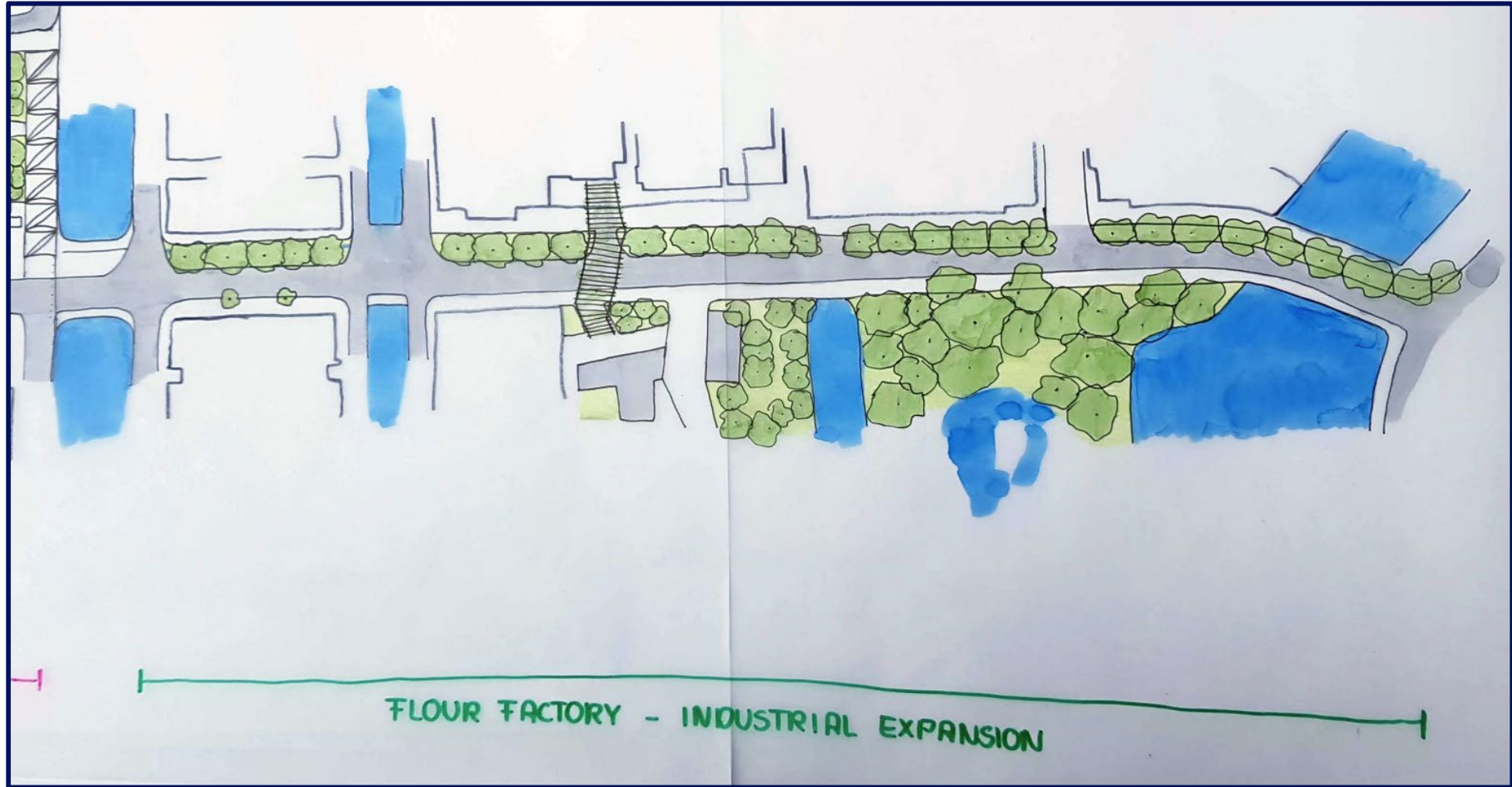
Clematis vitalba (old man's beard; Looks like cotton)



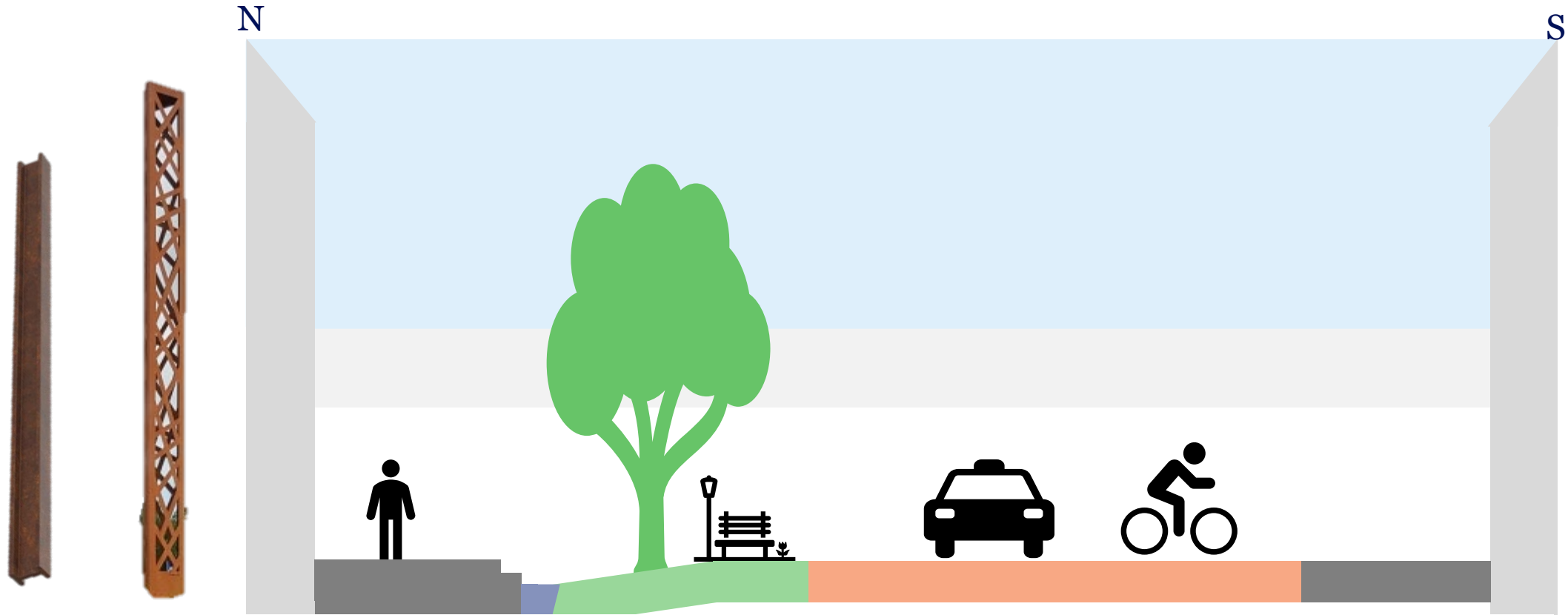
Houses



Flour factory



Design 3: Meelfabriek cross section

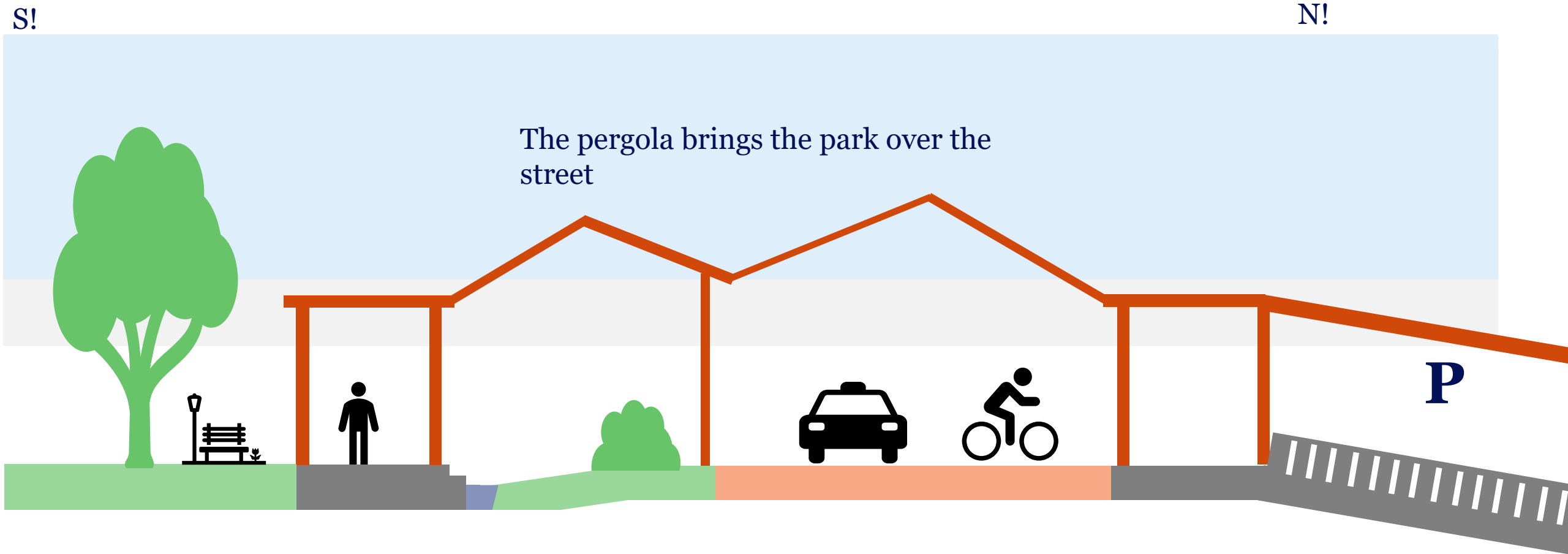




The 'Meelfabriek' in 1970 and now



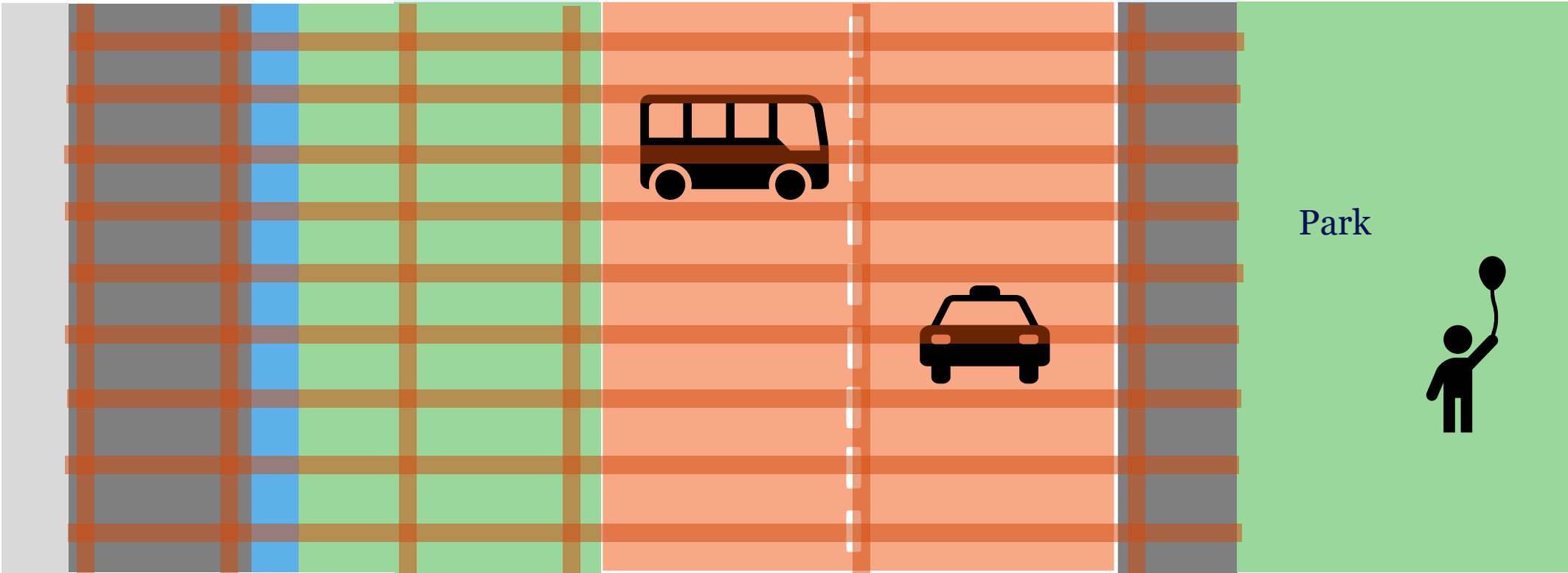
Design 3: Meelfabriek cross section (next to park)



Design 3: Meelfabriek top view

‘Meelfabriek’

Akebia quinate (chocolate vine)



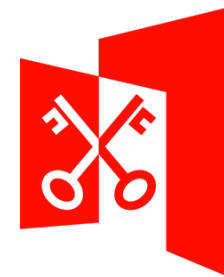
S

Recycled steel from the ‘Meelfabriek’

Short Questions/Remarks



Universiteit
Leiden
The Netherlands



Leiden

The background is a painting of a Dutch town scene. On the left, there are multi-story brick houses with white window frames. In the center, a large green tree stands in front of a windmill. To the right, more houses and trees are visible. In the foreground, there's a canal with a red boat and a white fence. The overall style is a soft, painterly illustration.

Landscape Heritage Spatial Planning and Sustainable Development

**By: Annika van der Nat, Elise Criqui, Melanie Marshal
Nektaria Alyfanti & Maria Vamvoukaki**

CONTENTS

- Introduction: The Design Through Disasters
- Our sites
- Historic Value
- Social Value
- Environmental Value
- The Green Detour
- Doezastraat: Greenways
- Doezastraat: Street Detail
- Stadhuisplein
- Overview: Cultural Activators
- The Mosaic Tour

●
GOAL

A Sustainable Lanscape with Cultural-Historical Background within Green spaces.



THE DESIGN THROUGH TWO DISASTERS

DOEZASTRAAT GUNPOWDER EXPLOSION

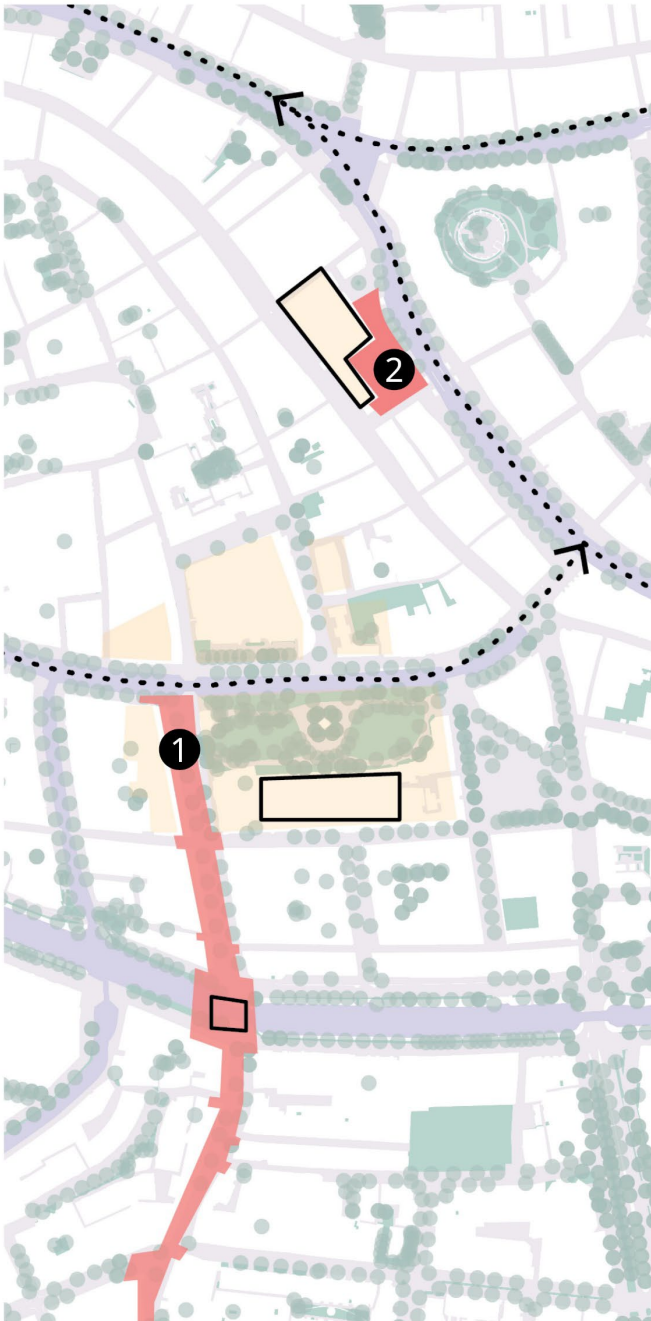
The Doezastraat Area: used to be a canal and after a gunpowder disaster of 1807 reformed as a wide street that ends in the Van der Werf Park.

CITYHALL FIRE

In 1929, the city hall of Leiden fell to flames under very special circumstances. The construction dates back to the late Middle Ages and early Renaissance, reflecting the architectural influences of that era.

Legend

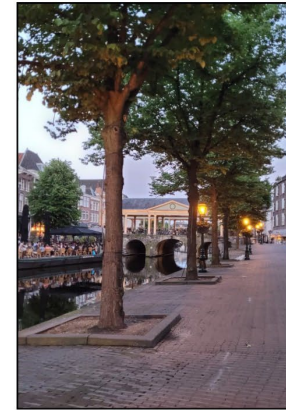
- Site of Disaster
- Area of intervention
- Historic building
- Water route



1 Doezastraat-Herenstraat

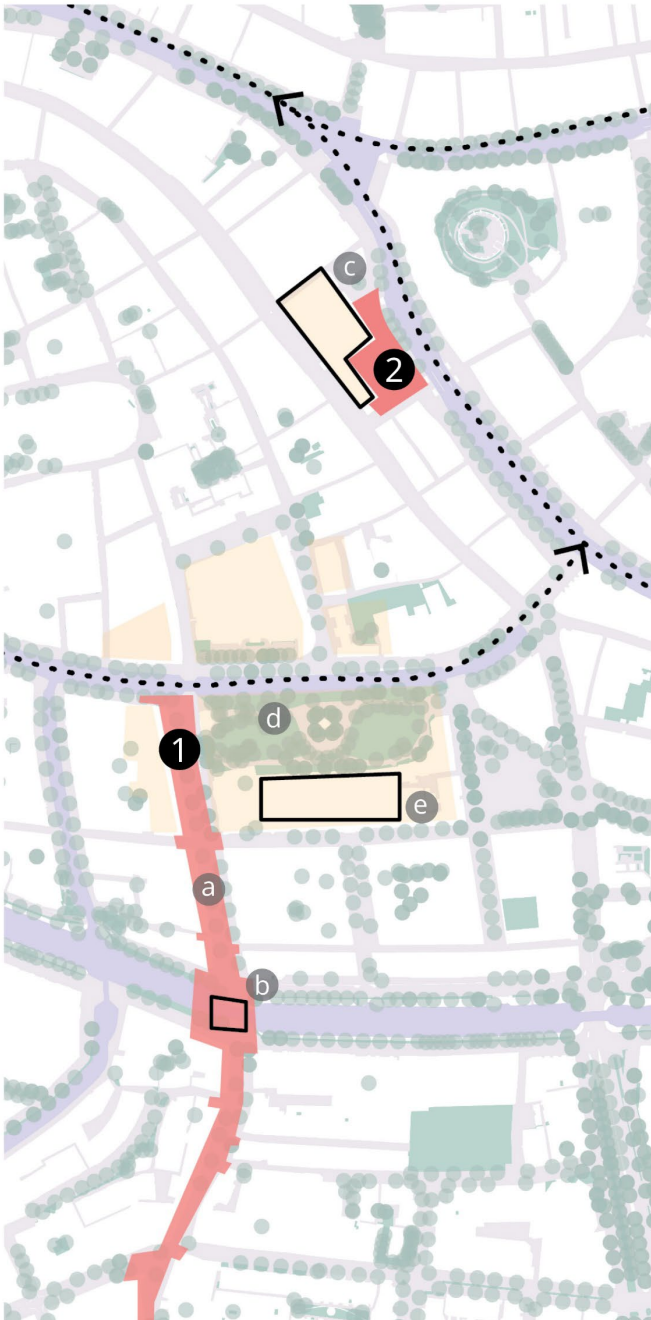


2 Stadhuisplein



Legend

- ① Doezastraat-Herenstraat
- ② Stadhuisplein
- Site of Disaster
- Area of intervention
- Historic building
- Water route



1 Doezastraat-Herenstraat

- Old canal
- 1400s Koepoort
- 1807 Explosion disaster
- 1880s Van der werfpark
- 1900s Naturalis
- Facades

2 Stadshuisplein

- Canal
- 1595 Stadshuis
- 1929 Fire disaster

Legend

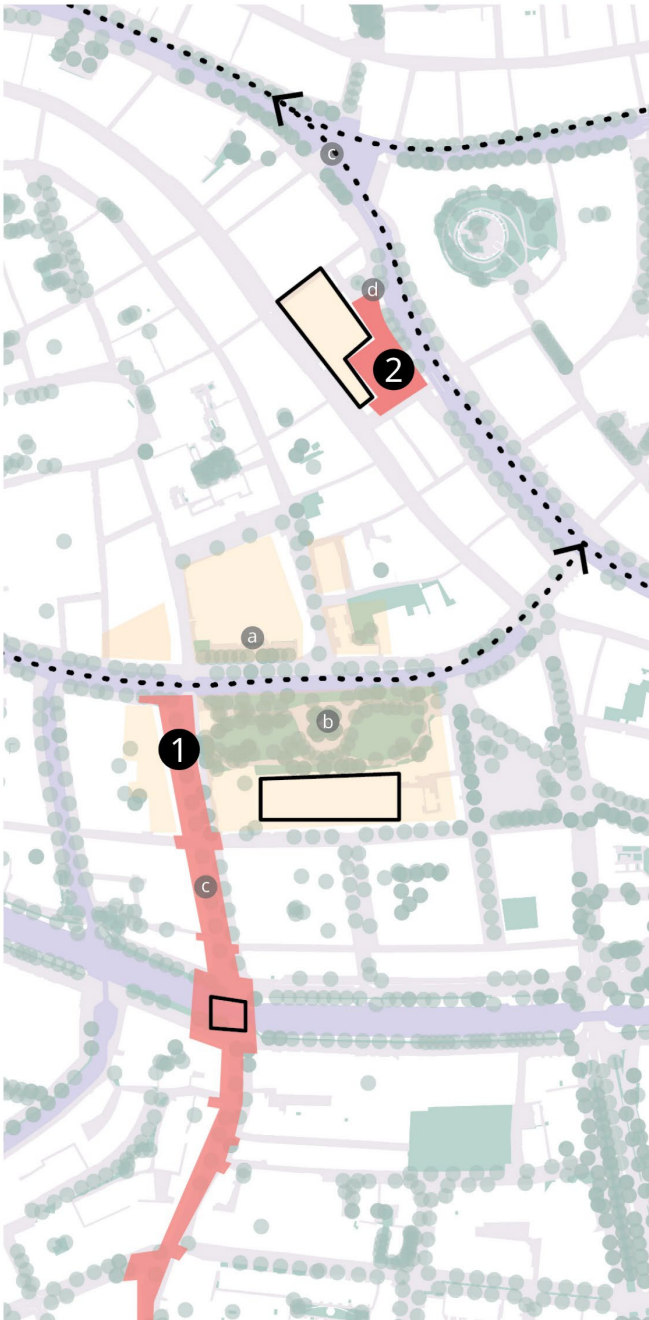
- 1 Doezastraat-Herenstraat
- 2 Stadshuisplein
- a Old canal
- b Koepoort 1400s
- c Stadshuis 1595
- d Van der werfpark 1880s
- e Naturalis 1900s
- Site of Disaster
- Area of intervention
- Historic building
- Water route

Heritage Values:

- Cultural-Historical, Architectural Values and Social Value
- Different architectural styles
- Remain almost intact – Authenticity
- Redevelopment of the area after the explosion in 1807
- Archaeological Value: Archaeological remains of the City Gate



HISTORIC VALUE



Target Groups

1 Doezastraat-Herenstraat

Students
Recreation for locals
Tourists

2 Stadshuisplein

Recreation for locals
Tourists

Legend

- 1 Doezastraat-Herenstraat
- 2 Stadshuisplein
- a Law School
- b Van Der Werff statue
- c Main canal
- d Historic Market
- e Commercial street
- Site of Disaster
- Area of intervention
- Historic building



Ashley

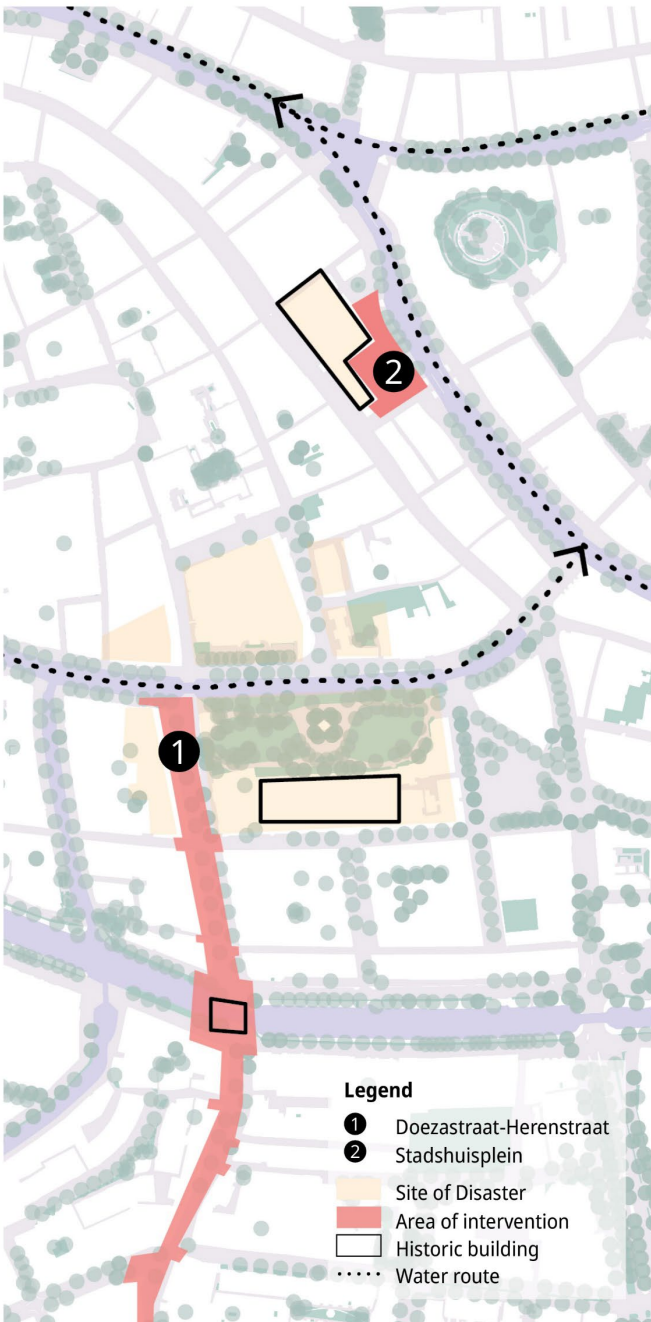
- 22 years old
- Law Faculty student
- Opinion: "Doezastraat is too residential and doesn't give the vibe of the city center"
- Needs: a place to visit with friends near the university and an inspiring study place.

Joost

- 47 years old
- Shop owner and resident of the area
- Opinion: "I like the tight community that we have in our neighbourhood"
- Needs: improve community activities and the retail environment



SOCIAL VALUE



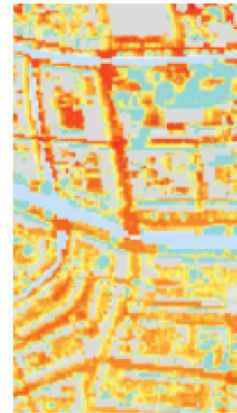
1 Doezastraat-Herenstraat



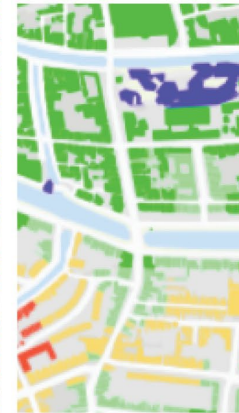
Urban Heat Island Effect



Potential flooding



Perceived temperature



Distance to cooling

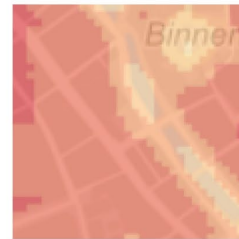


Haagbeuk



Witte esdoorn

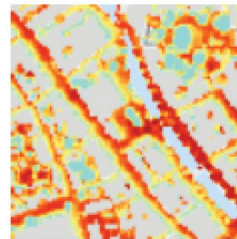
2 Stadshuisplein



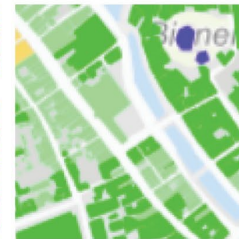
Urban Heat Island Effect



Potential flooding



Perceived temperature



Distance to cooling



Witte paardenkastanje

Common species



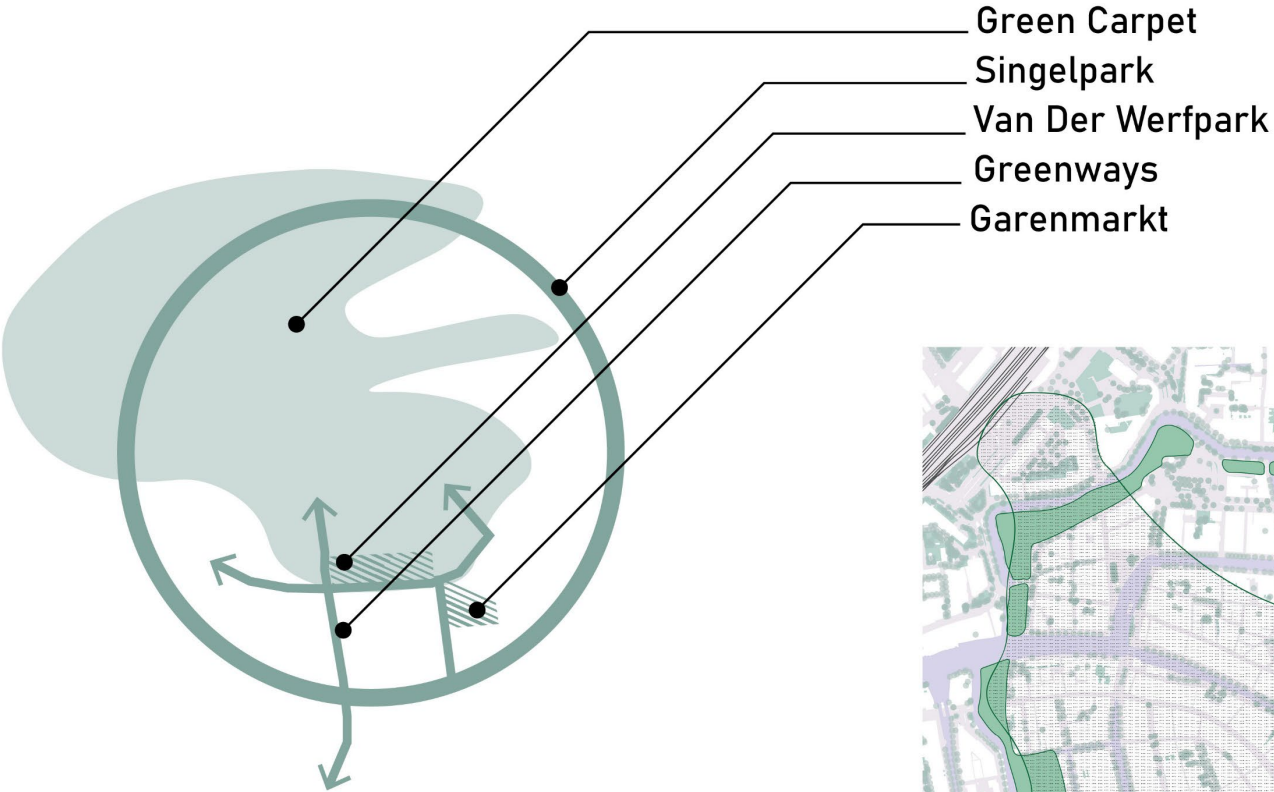
Huismus

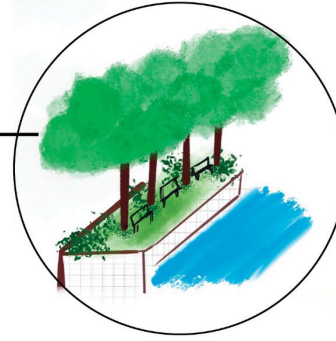
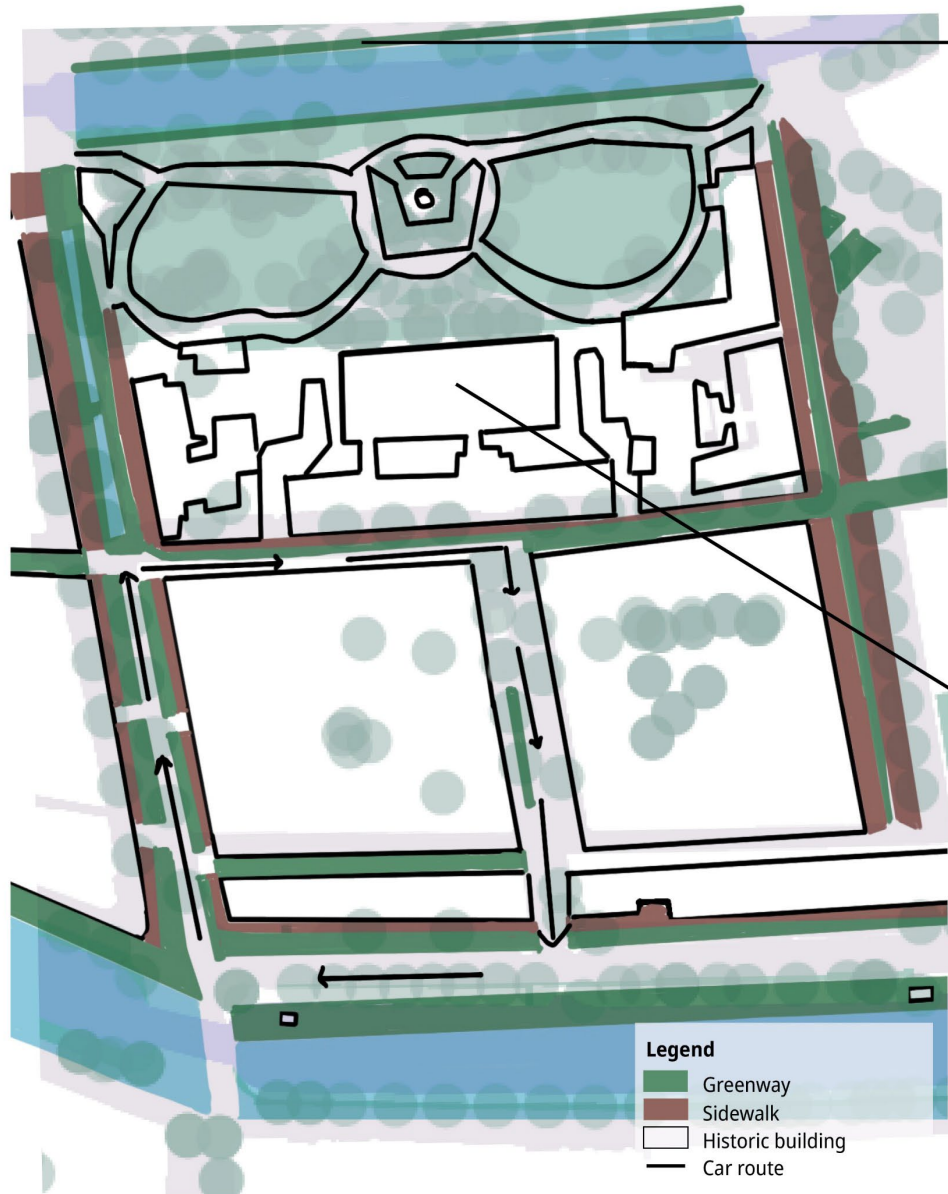


Hollandse linde

ENVIRONMENTAL VALUE

THE GREEN DETOUR





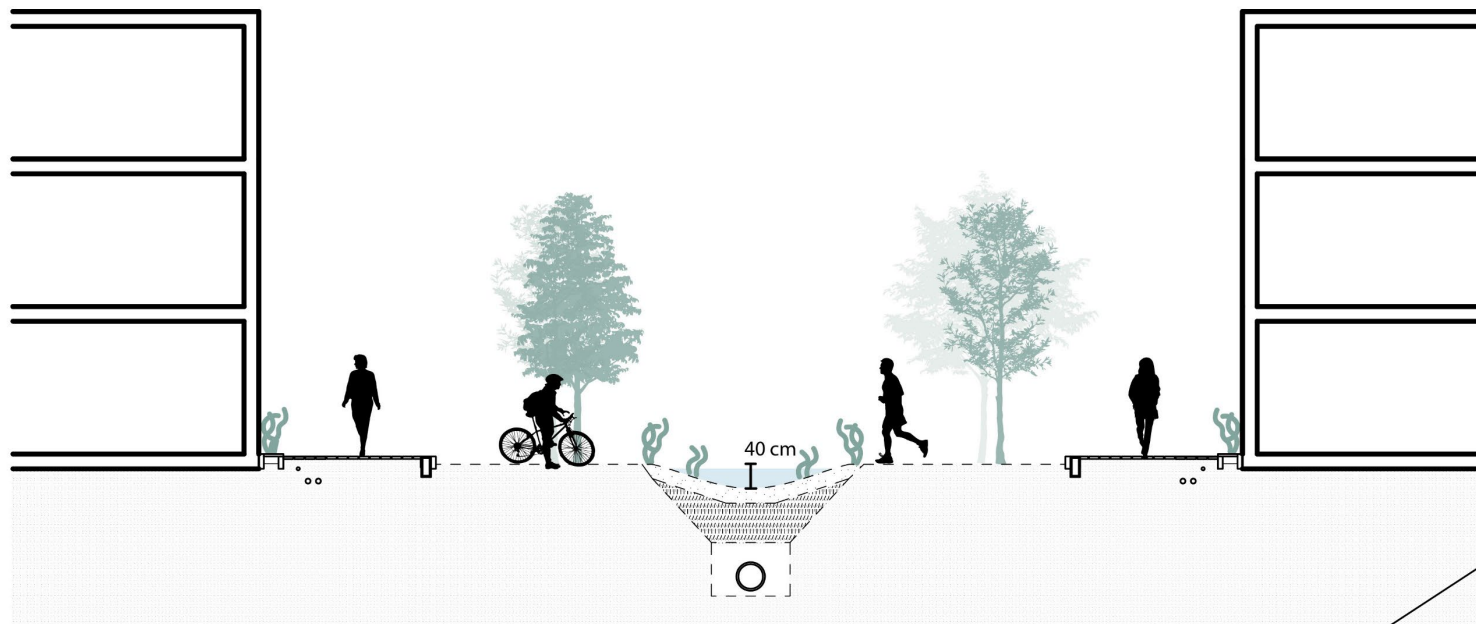
Bench Design:

- Preservation of the canal's edge – historic use value of the site
- Removal of parked cars to enhance greenery and provide a more natural view from the park
- Adding benches featuring mosaics depicting different historical phases of the great ruins
- Making the historical background of the area accessible as a visual narrative



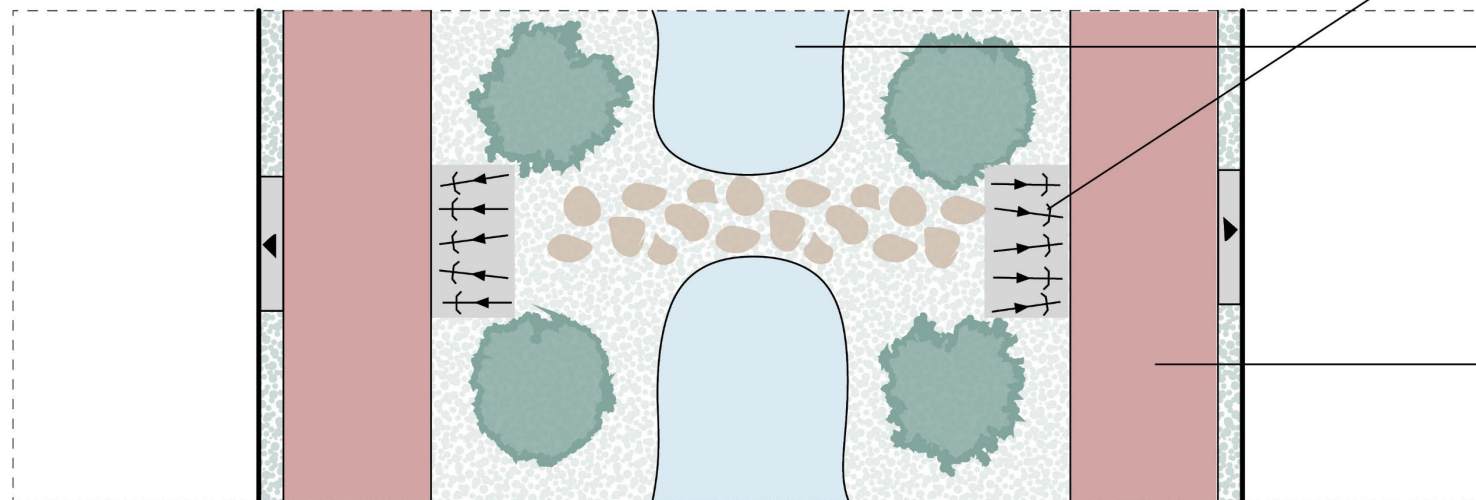
Naturalis:

- Create a cultural place within a green space
- Reasons to actively utilize the park and visit the museum.



DOEZAstraat

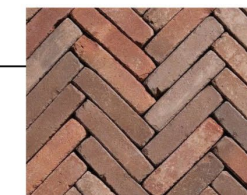
Wadi



Bike Parking



Wadi



Pavement

0,5 m 3 m

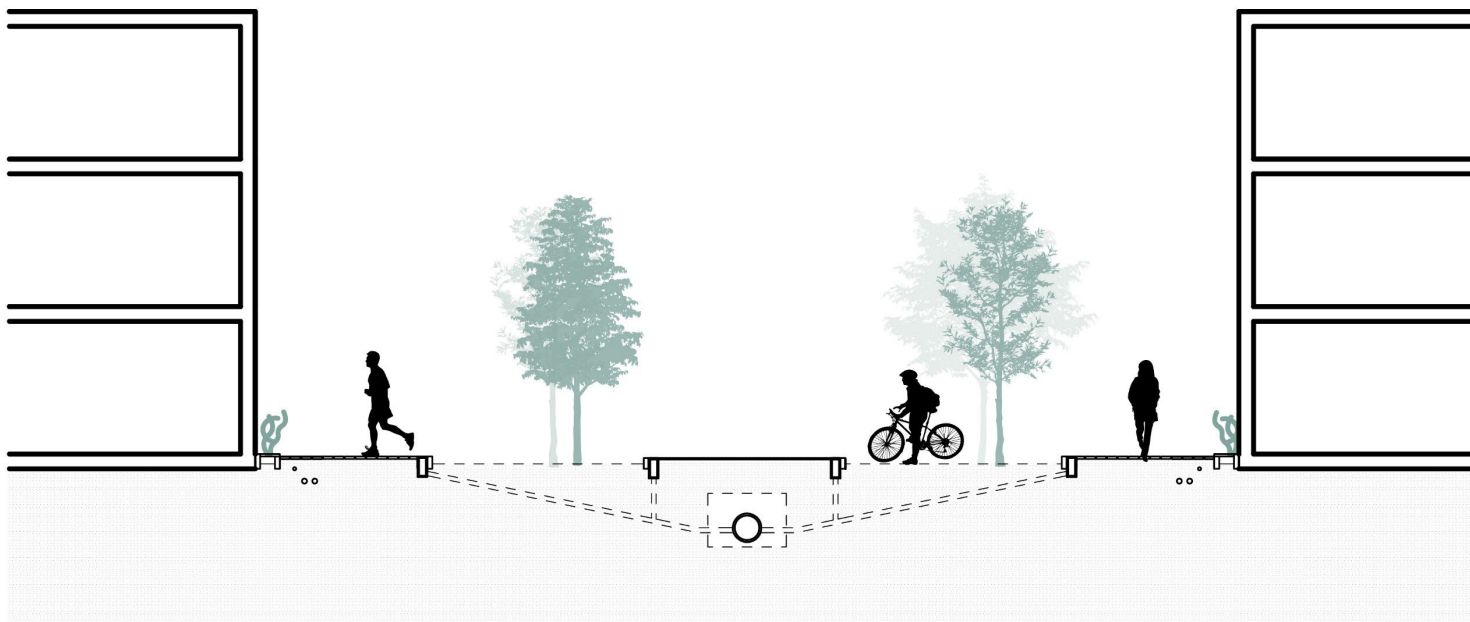
4,5 m

4 m

4,5 m

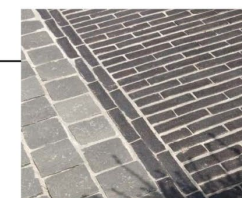
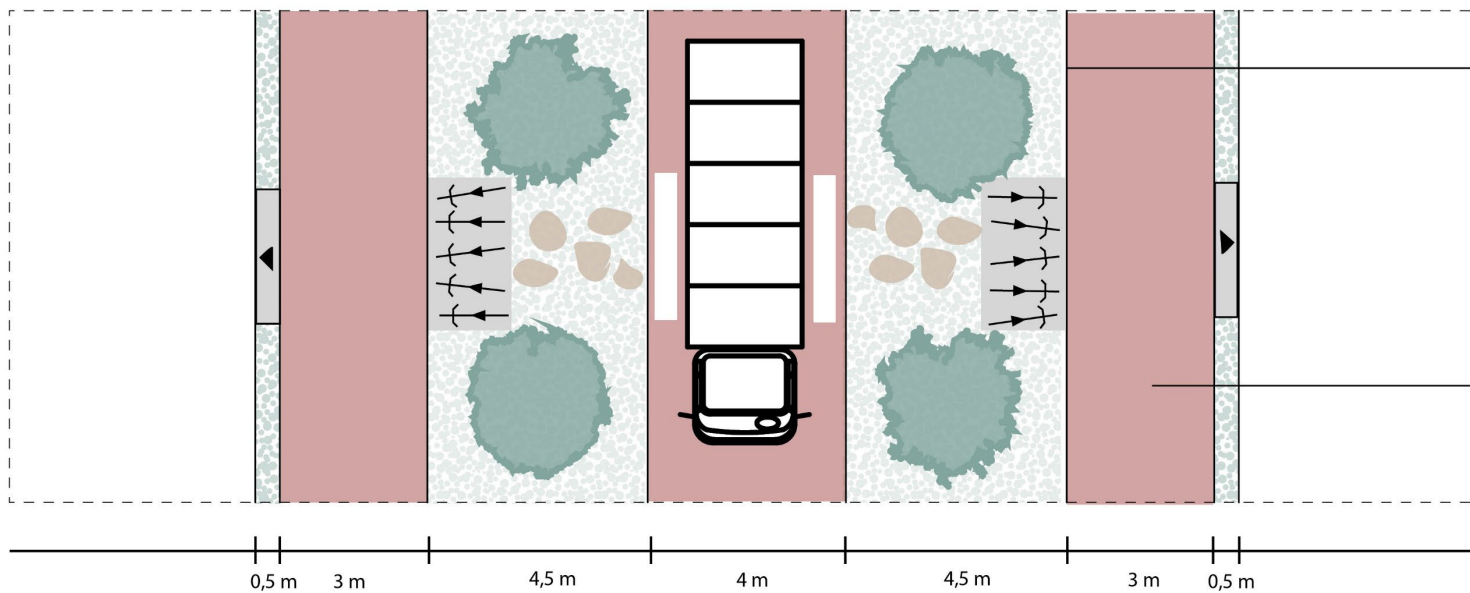
3 m

0,5 m

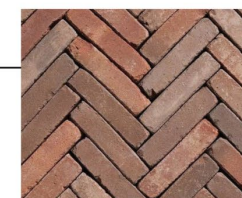


DOEZASTRAAT

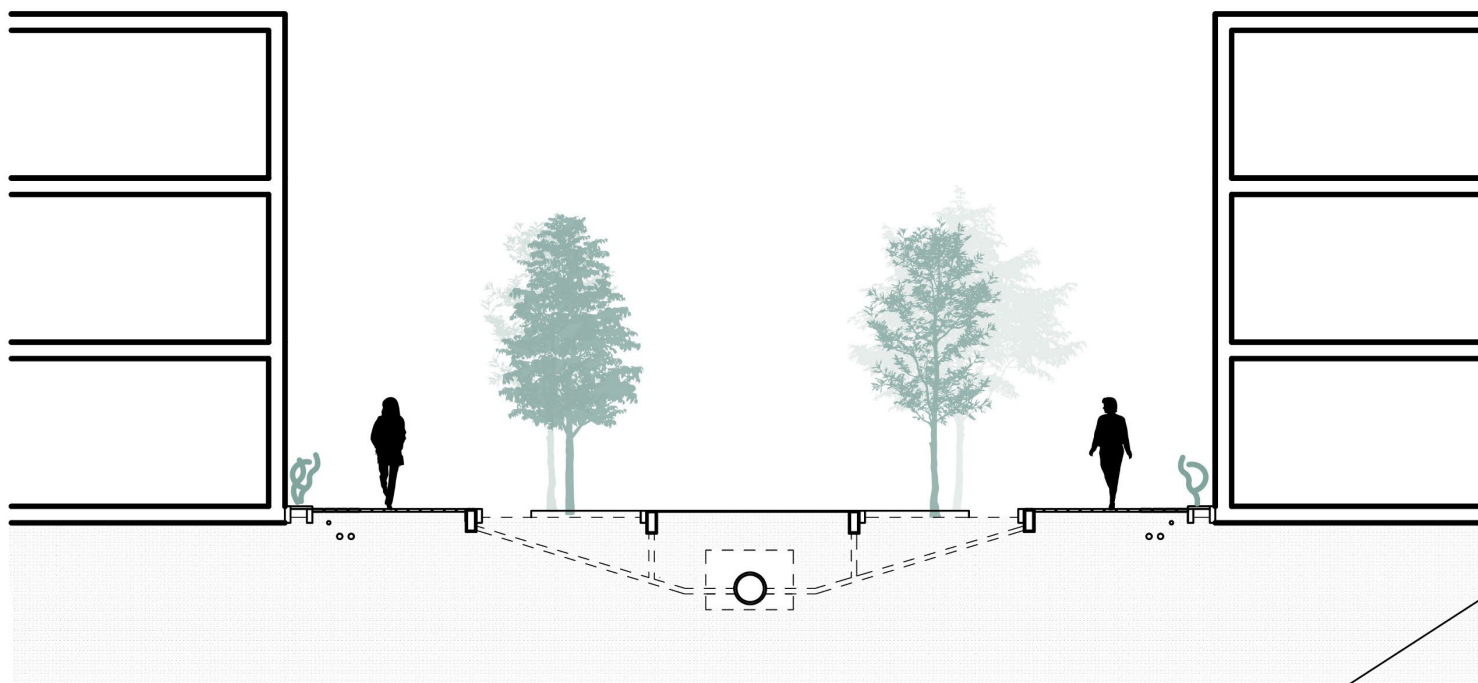
One-way street



Transition blue stone



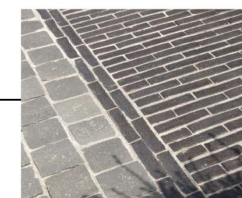
Pavement



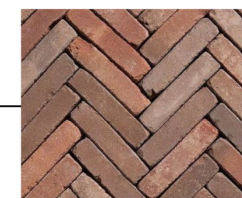
HERENSTRAAT

One-way street

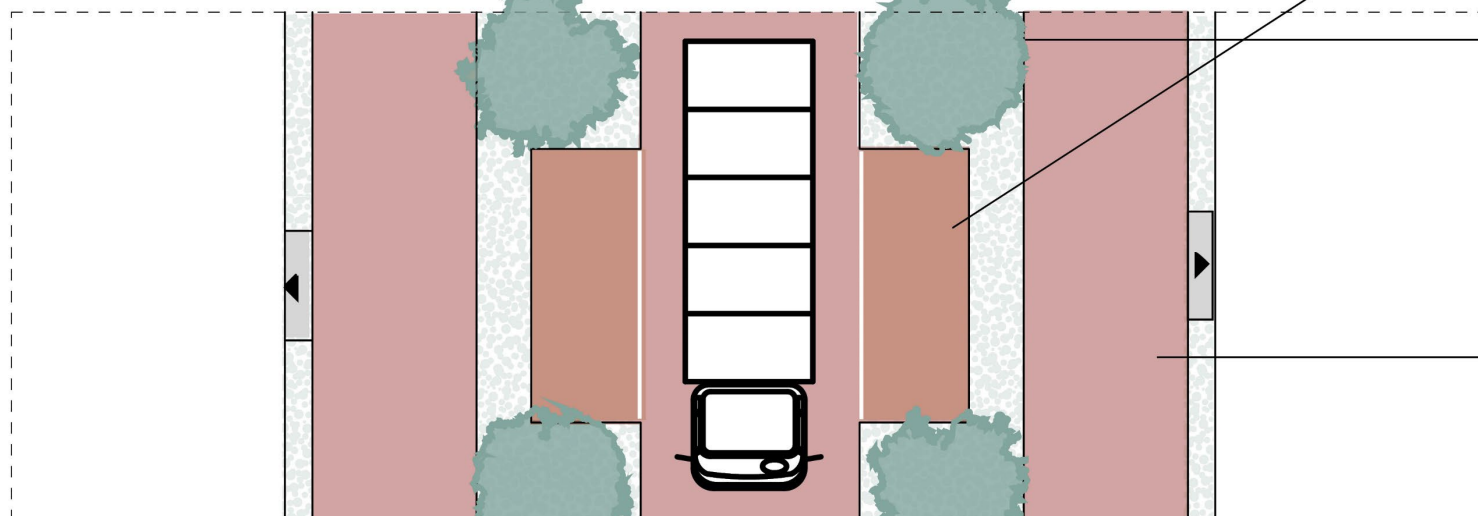
Parking



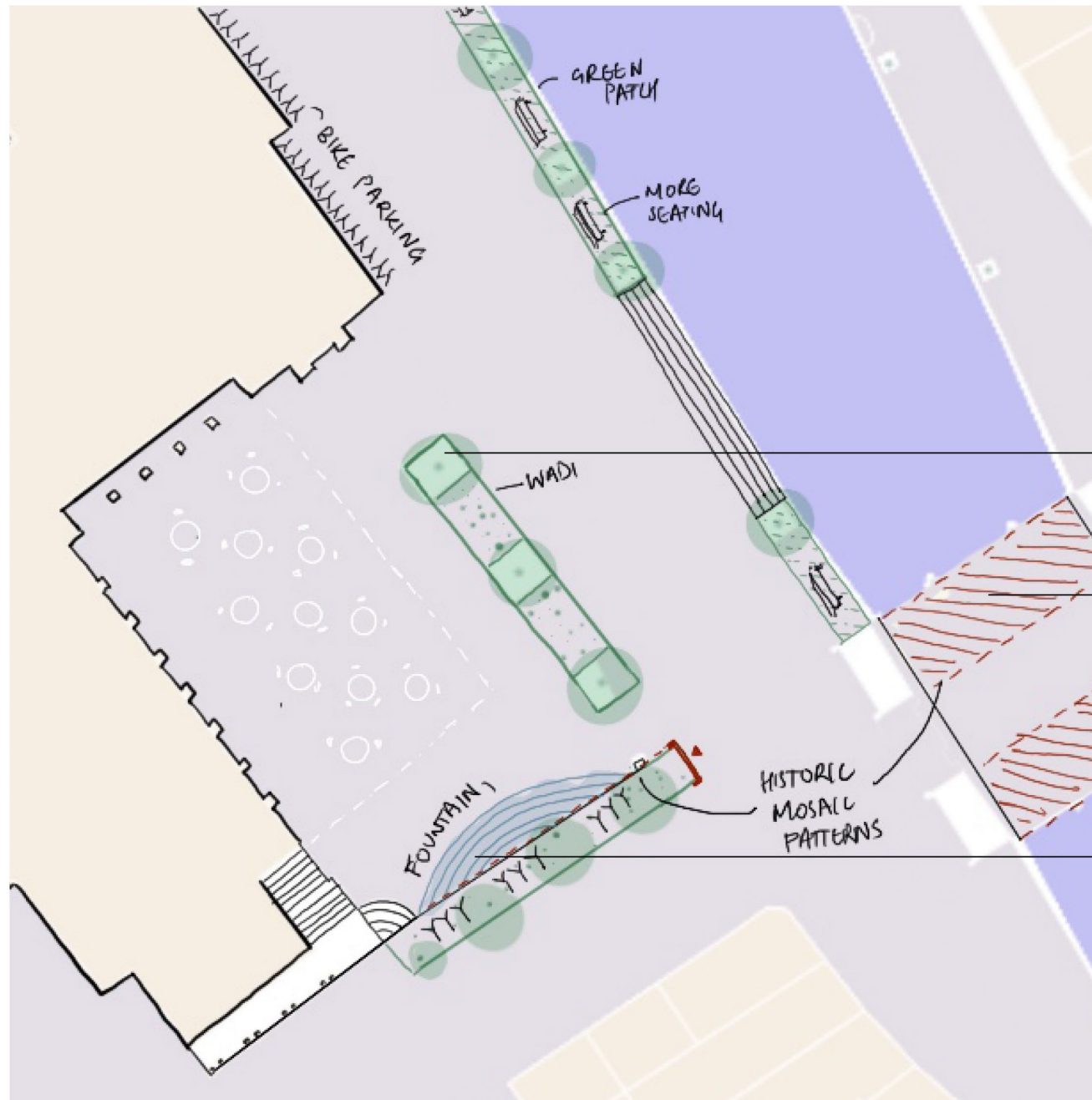
Transition blue stone



Pavement



STADHUISPLEIN



Wadi

<https://www.kanbouwen.nl/2023/07/06/wadis-en-raingardens-lessons-learned/>



Mosaic of the Ostia Marketplace

Source: https://commons.wikimedia.org/wiki/File:Mosaics_of_the_Market_Place_Ostia_Antica_%2846813665721%29.jpg

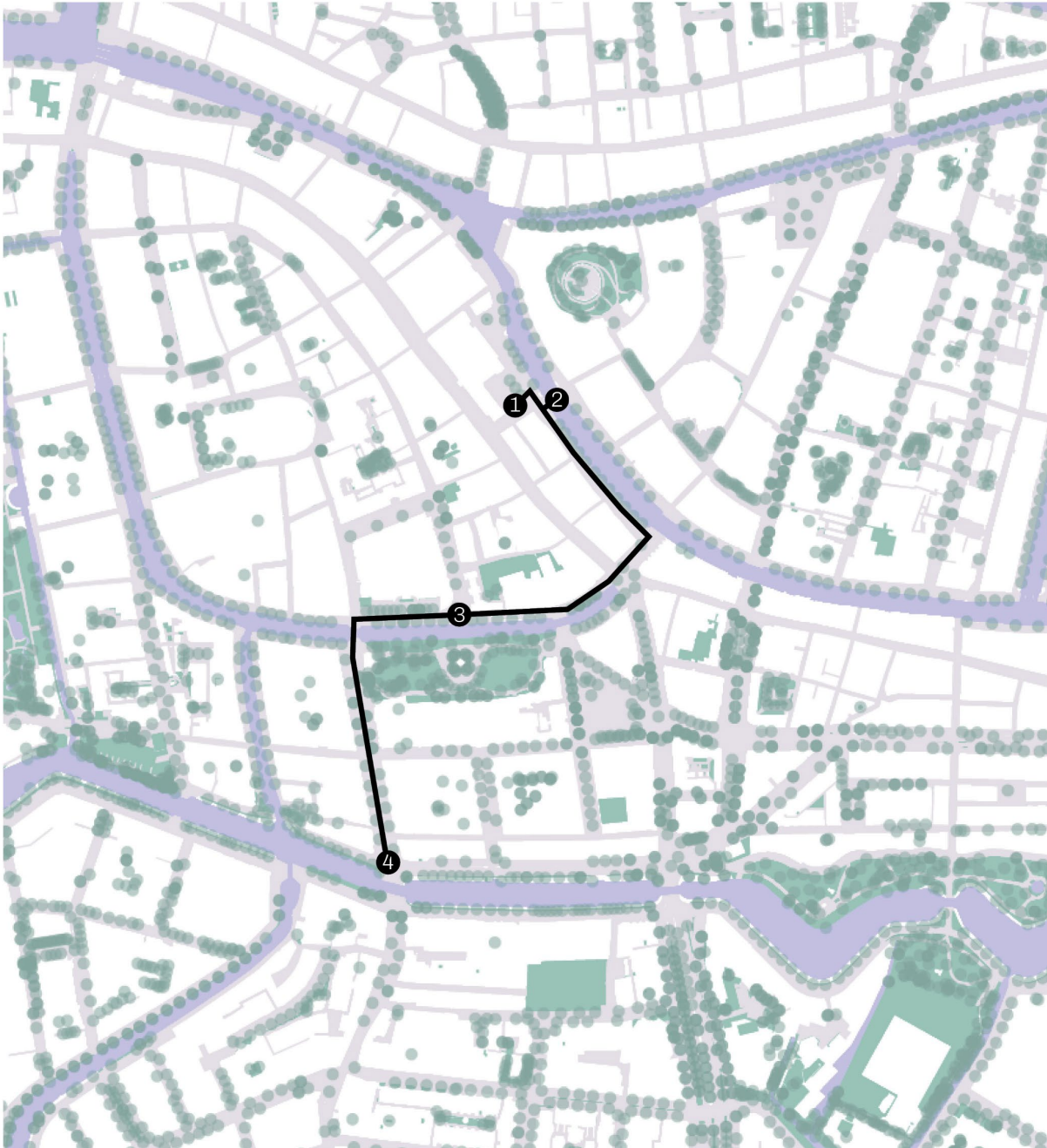


Source: <https://www.flickr.com/photos/mag3737/5329581436>



CULTURAL ACTIVATORS

-  Heritage Buildings
-  Cultural Meeting-points
-  Historical Mosaic



THE MOSAIC TOUR

Benefits of Mosaic



- Historical walkable routes of green that lead to the mosaics
- People become aware of the history through mosaics
- Placed in everyday objects (wall-benches) – daily interaction with the history of the place
- Suggestion for the whole city of Leiden
- Job for local artists



- 1 Fire Cityhall
- 2 Grainmarket
- 3 Gunpowder Explosion
- 4 Citygate

REFERENCES

Photo of the foundation remains of the Koepoort, after Erfgoed Leiden, <https://www.erfgoedleiden.nl/Gymnasium>; after https://www.werkenbijkindergarden.nl/vestigingen/leiden/raamsteeg/bso?gad_source=1&gclid=Cj0KCQjwlZixBhCoARIsAIC745BsL-rEzKroc-jyMpDZOqyf-yvbPmEvELjxYFT0MOe1DCU0BZXX_lm0aAkfMEALw_wcB
Van der Werf Park https://nl.wikipedia.org/wiki/Van_der_Werfpark
The Hogere Burgerschool voor Meisjes; after [https://www.erfgoedleiden.nl/Photographs of Unused Open Spaces of the Museum](https://www.erfgoedleiden.nl/Photographs%20of%20Unused%20Open%20Spaces%20of%20the%20Museum); after Elise Criqui
Leiden, City Hall, after Erfgoed Leiden, <https://www.erfgoedleiden.nl/collecties/beeldmateriaal/zoeken-in-beeldmateriaal/detail/ae3d3468-26bc-11e3-9e7f-3cd92befe4f8/media/4c9db78e-80ca-9b8b-9cea-0fccbd82ad85?mode=detail&view=horizontal&q=stadhuis%20leiden&rows=1&page=45>

Short Questions/Remarks



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Perspectives

Three different approaches to show heritage:

Group 1: in the streets different point in history are shown with elements and greenery that reference the historical situation

Group 2: two places are connected with disaster, being told in a mosaic and fountains. These are parts of a larger heritage route through the area

Group 3: The layout of previous buildings are brought back in the layout of the park and square

Opportunities and reminders

- Incorporating multiple heritage layers in design.
- Integrating elements/plants that relate to these heritage layers.
- Both zooming out and zooming in: What places have similar histories and can be connected.

