

Reinterpreting the working-class neighbourhood

Urban Transformation Framework for Oud Crooswijk, Rotterdam

01 *Introduction*

02 *Problem Statement &
Project urgency*

03 *Approach & Theory*

04 *Urban renewal urgency*

05 *Identity Analysis*

06 *Design Assignment*

07 *Design Vision*

08 *Design Principles*

09 *Potential masterplan &
key interventions*

10 *A final statement*

Rotterdam Crooswijk: a victim of urban renewal

Introduction



01

Rotterdam

Crooswijk

- Working-class neighbourhood in Rotterdam
- One of the original neighbourhoods
- Known for it's social cohesion
- Strongly associated with the 'real' Rotterdammer and the Rotterdam dialect



However...

due to urban renewal

This association is starting to disappear



Dit is een nieuwsbericht van
Rijnmond

Zaterdag 11 september 2021, 09:00

Bewoners zijn verknocht aan 'klotebuurt' Oud-Crooswijk: 'Vroeger lachte ik, nu heb ik een huilkoppie, maar ik laat me niet wegpesten uit mijn wijk'



19 JUNI 2024

**HUURDERS CROOSWIJK VOEREN ACTIE VOOR
BETERE WOONOMSTANDIGHEDEN**



Woonproblemen

Wijken voor de yuppies in Rotterdam Crooswijk: "Het idee dat ik weg moet, vind ik heel akelig"

REPORTAGE

Ooit de trots van een Rotterdamse volkswijk, nu verpauperd en onveilig – oudgediende moet Crooswijkseweg opknappen



Dit is een nieuwsbericht van
Rijnmond

Vrijdag 10 september 2021, 08:10

Een diepgeworteld wantrouwen in plannen Oud-Crooswijk door sloopdrift in Rotterdam



KRO-NCRV (2020) NOS and Rijnmond (2021), SP Rotterdam (2024) and Volkskrant (2024)

Urban renewal

Nieuw Crooswijk

- Early 2000s
- Urban renewal in Nieuw Crooswijk
- Leading to:
 1. A completely altered physical appearance
 2. Large demographic shift



(Maarten van Biezen, 2019)

Forcing current residents out

As a result of the urban renewal

- Attempt to make the city more attractive for higher incomes
- Makeover offered room for upper-class
- Disregarding the current working-class
- Leading to gentrification

*“When they start demolishing, the only
have room for 450 social houses.*

*Where do the rest of the
Crooswijk-natives have to go?”*

*“To the next about to be demolished
neighbourhood ofcourse!*

*That is what you call efficient
demolition policy.”*



www.rotterdamwoont.nl

Spreading fear in Oud Crooswijk

- Currently in need of renewal
- First visible signs of gentrification
- Residents fear their area is next



'This is a working-class' neighbourhood. But people want us out. The 'Yuppen' (upper-class) are going to kick me out'

"Crooswijk has been ruined, and I fear this cannot be fixed anymore..."

"It all started when they started renovating Nieuw Croosijk."



"People are chased out. People had a rent of €350,-. They were promised to be able to return after the renovation. However, their rent increased to €720,- which they could not afford ofcourse."



"Everyone helped each other, everyone knew and greeted each other. Nowadays, if you say hello to someone, they will not even look at you."



(NPO, 2018)

Problem Statement

*“Urban renewal threatens to **push out the current inhabitants and alter the physical appearance of the neighbourhood.***

*As a result, Oud Crooswijk could become completely unrecognizable, **removing the working-class character of the neighbourhood.”***

The importance of the working-class

- Working-class = DNA
- The DNA makes Rotterdam unique and attractive

Bold

Rotterdam is a city that's direct and unpolished. Rotterdammers say what they mean. Rotterdam is a city where anything is possible. Rotterdam is constantly changing and never finished. The city is young and unpolished. This means that anyone can contribute to the city and connect with it.

Forward

In Rotterdam it doesn't matter where you come from, it matters where you're going. Those who want to create something new can find what they want in Rotterdam. Rotterdam is the city of initiative and innovation.

Culture

Rotterdam is a world port city. The port is the largest and most modern of Europe and belongs to the top 10 ports globally. Additionally, the city knows a powerful skyline and modern architecture. 178 different nationalities live together in Rotterdam and the city has an international network. Rotterdam is the city with an open mind.

*The DNA of Rotterdam
(Gemeente Rotterdam, N.D.)*



(Rotterdam City archive)



(Rotterdam City archive)



(Rotterdam City archive)

Problem Statement & Objectives

Design Objective

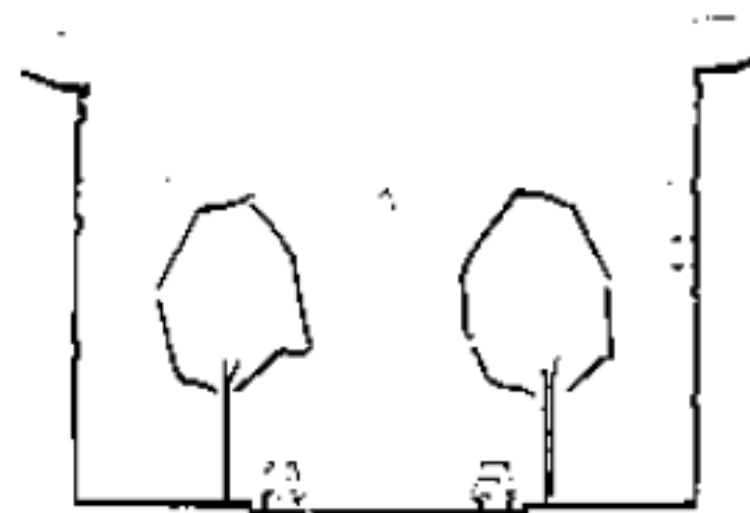
*“Creating a **transformation framework**
that ensures Oud Crooswijk is still recognizable as a **working-class neighbourhood**
after **urban renewal**”*

Keeping the working-class character recognizable

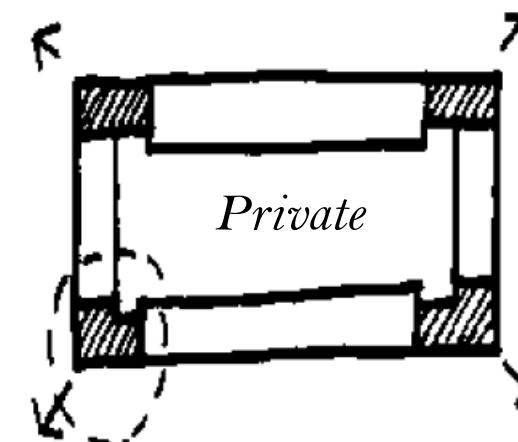
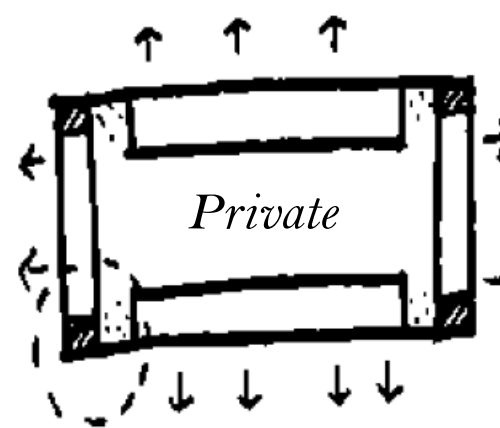
- Urban renewal requires spatial interventions
- Emphasis on original spatial characteristics



Street layout follows the old underlying polder structures



Compact public space



Closed building blocks

(Welstandsnota Rotterdam, 2012)

— *Ensuring the
working-class character*

*Approach
&
Theory*

**NIET LULLEN
MAAR POETSEN**

*Don't talk
Just do it*

03



Main research question

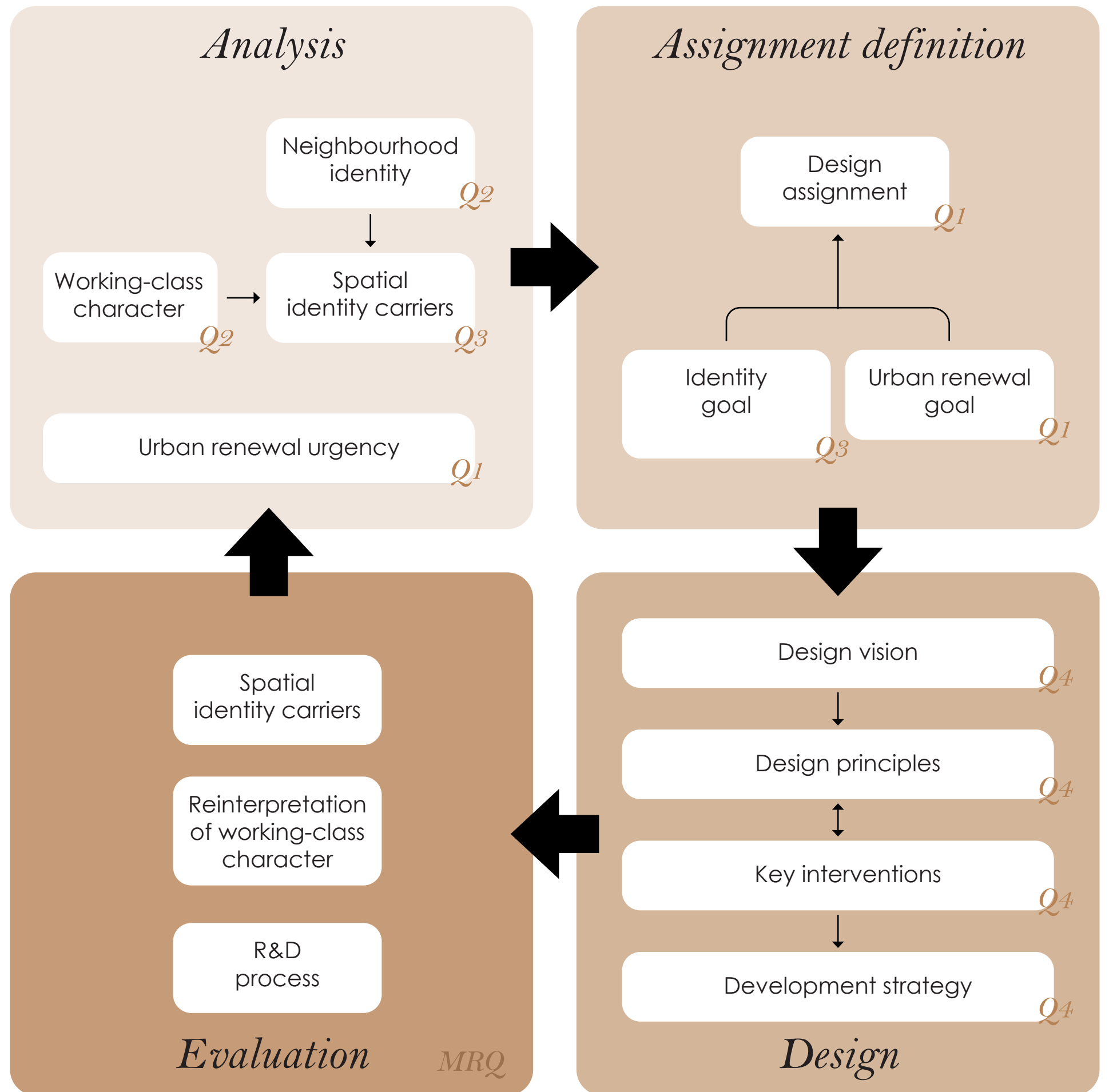
“How to renew the urban fabric of Oud Crooswijk and reinterpret it’s working-class character?”

Subquestions

- 1. What is the urban renewal assignment of Oud Crooswijk?*
 - 2. What defines the modern-day working-class character of Oud Crooswijk?*
 - 3. What are the spatial elements that carry the neighbourhood’s identity?*
 - 4. How to embed the spatial identity-carrying elements into the urban fabric?*
-

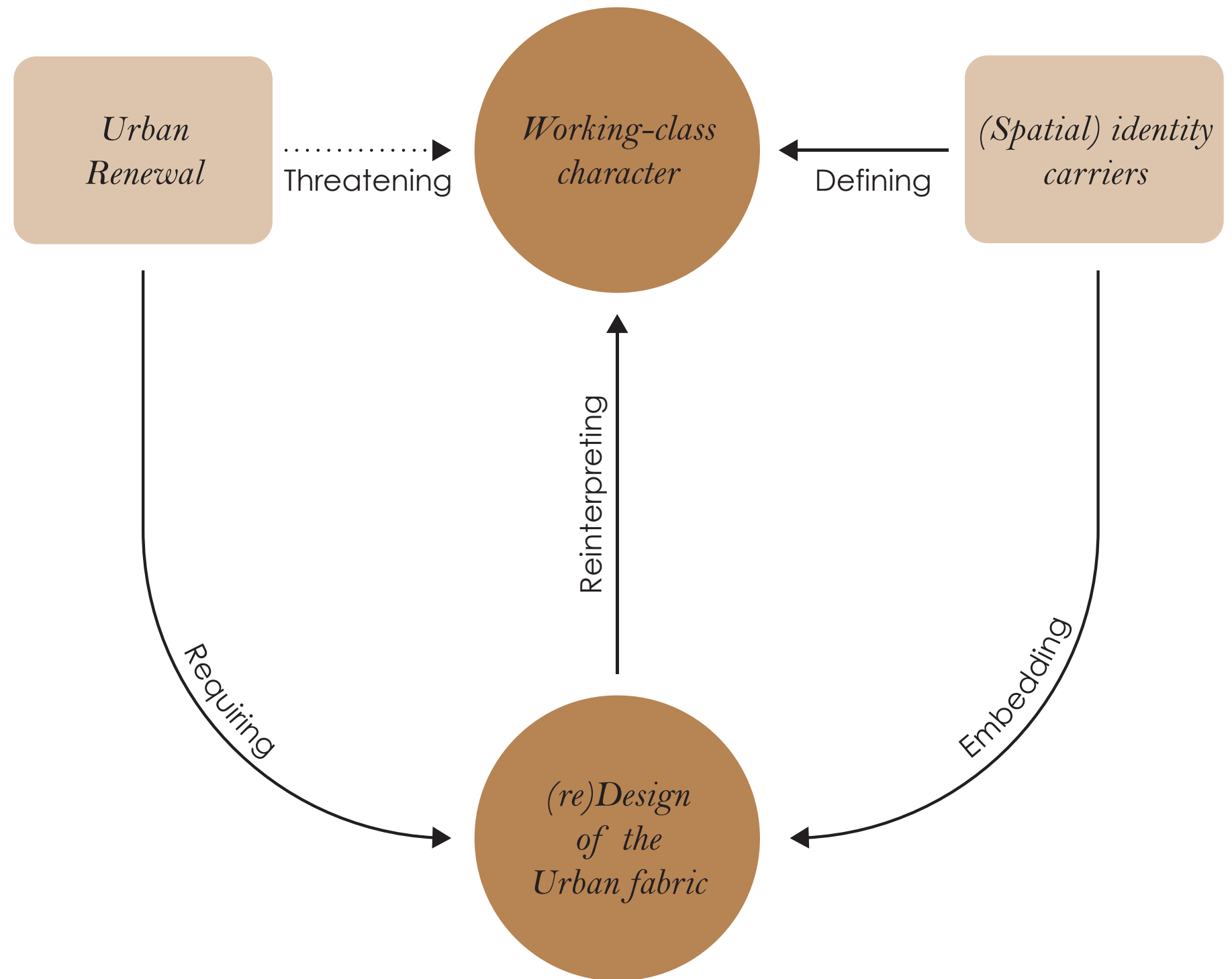
Transformation framework

Approach



Transformation framework

Scope



Analysis Pt. 1
Urgency for urban renewal

04



Urgency

For urban renewal

- Spatial and social urgency
- In the area of Oud Crooswijk



Spatial urgency

For urban renewal

- Impoverished neighbourhood heart



“Ooit de Trots van een Rotterdamse volkswijk, nu verpauperd en onveilig - oudgediende moet Crooswijkseweg opknappen”

(Volkskrant, 2024)

“Als buurtbewoners door de Crooswijkseweg in Rotterdam moeten, gaan ze soms liever een blokje om. ‘Malafide ondernemers trekken onguur volk aan.’ ”

Spatial urgency

For urban renewal

- Fragmentation
- Poor housing condition
- Heat stress
- Lack of green



Social urgency

For urban renewal

- Unaffordable homes
- Poverty
- Poor liveability

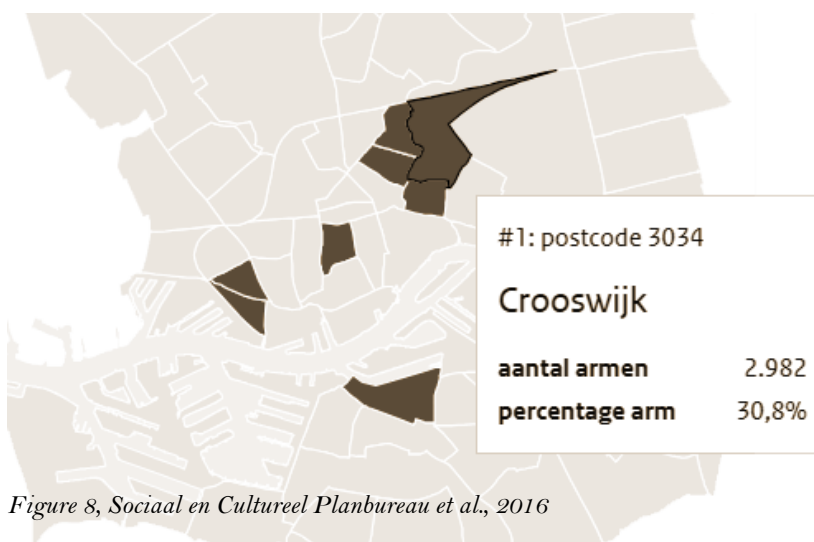
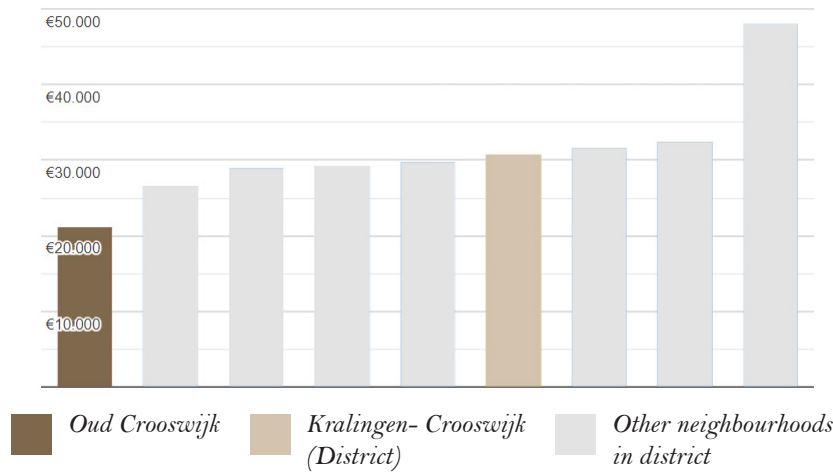


Figure 8, Sociaal en Cultureel Planbureau et al., 2016

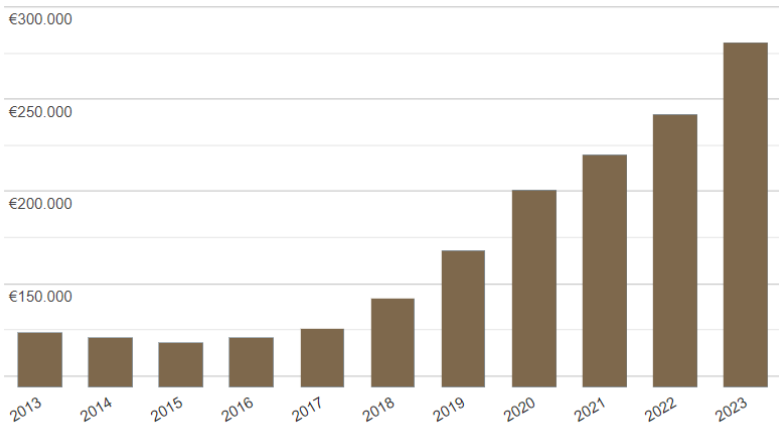
| | | % of household living around or below social norm | % of people receiving welfare benefits |
|---------------|----------|---|--|
| Oud Crooswijk | Buurt | 25% | 11% |
| Nederland | Land | 6% | 2% |
| Rotterdam | Gemeente | 13% | 5% |

(Buurt Oud Crooswijk AlleCijfers.nl, 2025)

Average annual income per person
€22.900,-



Average housing price
€294.900,-



Average housing price: €294.000
Average annual income: €22.900

Maximum mortgage

- 2x € 22.900
- No (student) debts

ING: €193.638
Rabo Bank: €194.123
ABN AMRO: €192.433
Independer: € 206.081

Buurt Oud Crooswijk AlleCijfers.nl, 2025 and ING, Rabo Bank, ABN AMRO, & Independer, 2024)

Urban renewal goal

*“Creating a **coherent** and **sustainable** urban fabric,
designed from the **public space** perspective”*

Analysis Pt. 2

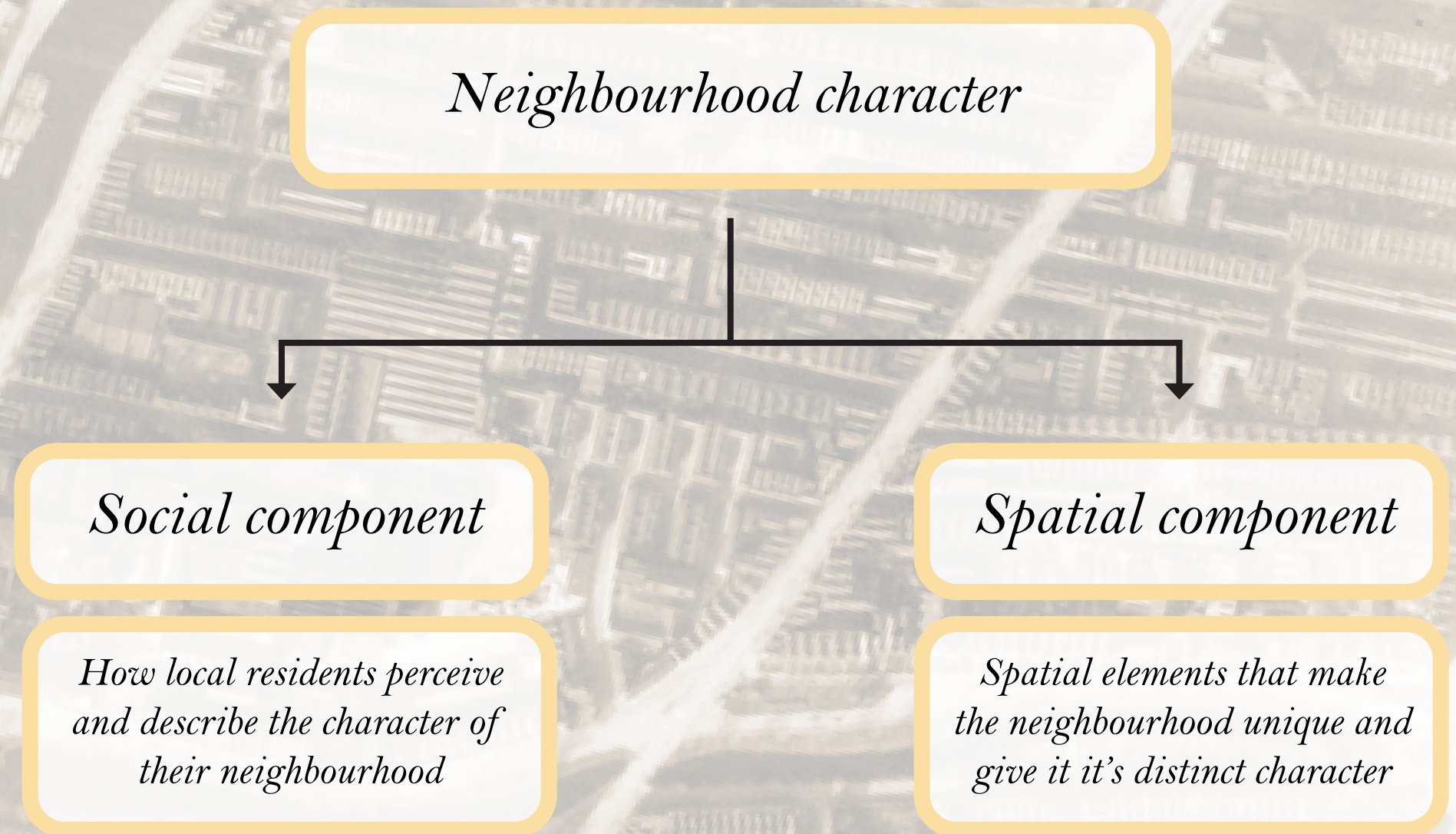
*Defining the modern-day
working-class character*

05



Statue of famous Oud Crooswijk native and boxer Bep van Klaveren

Defining the character of a neighbourhood



Character of Oud Crooswijk

Past

- Working-class
- Defined by
 - Manual labour professions



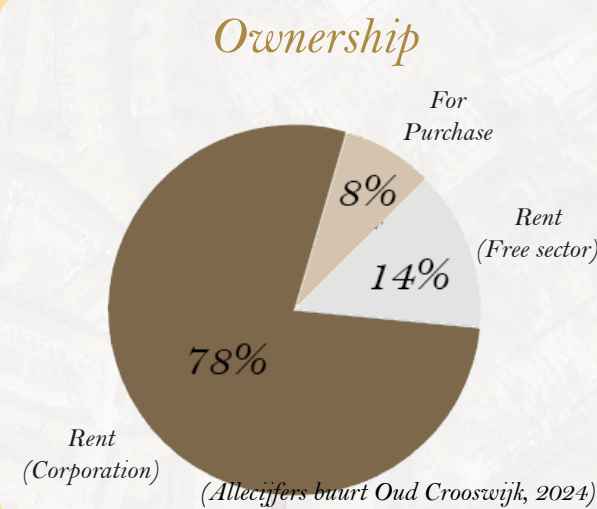
Character of Oud Crooswijk

Present

- Working-class
 - Due to economic shift
 - Concept has strongly diffused
 - Present:
 - Poverty
 - Limited access to goods & technology
 - Social housing
 - Manual labour professions
- (Pilgrim-Brown, 2023)

“Conceptualising what it means to have a working-class identity in 2023 is complicated, complex, and consistently under debate.”

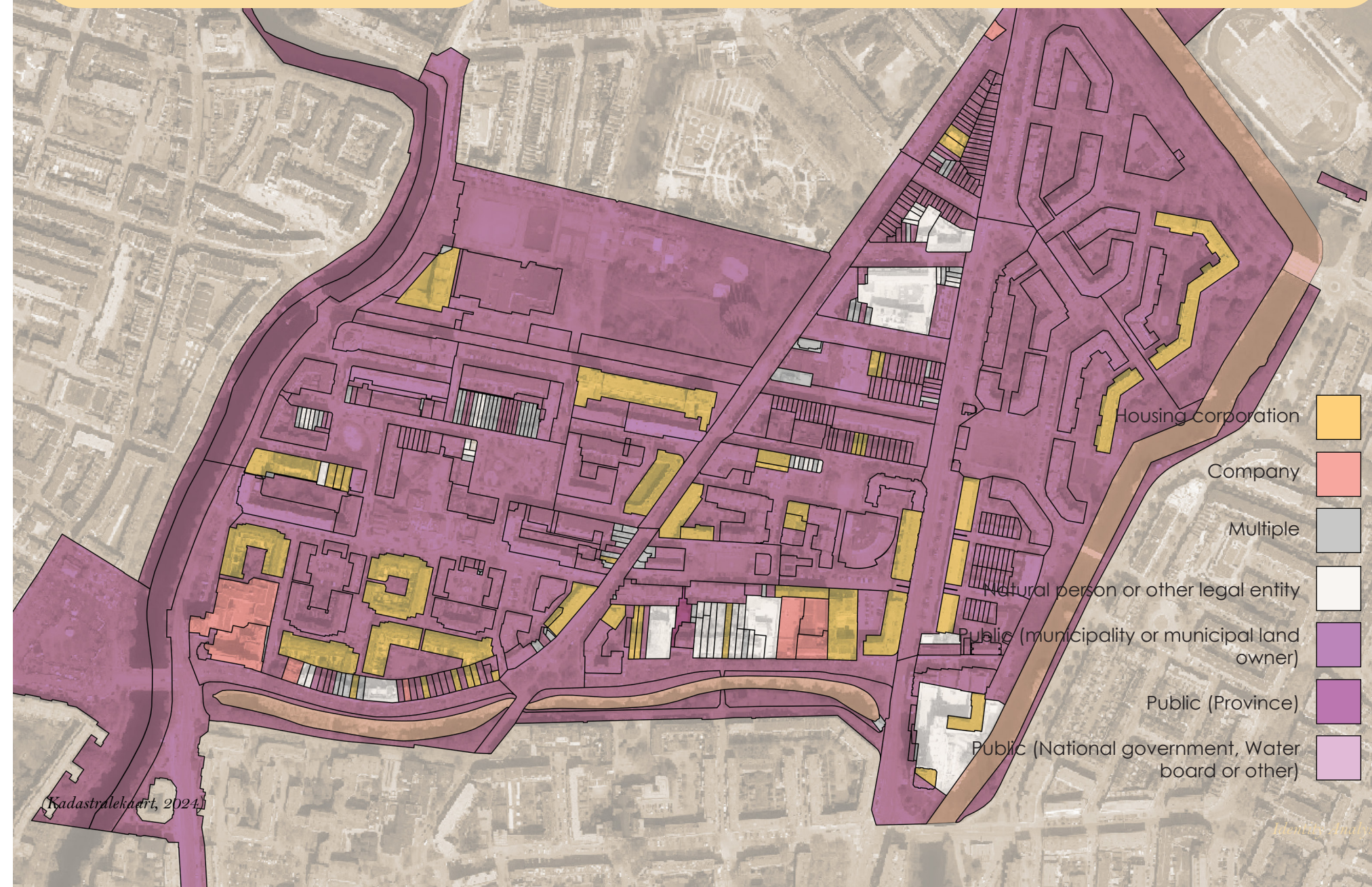
(Pilgrim - Brown, 2023)



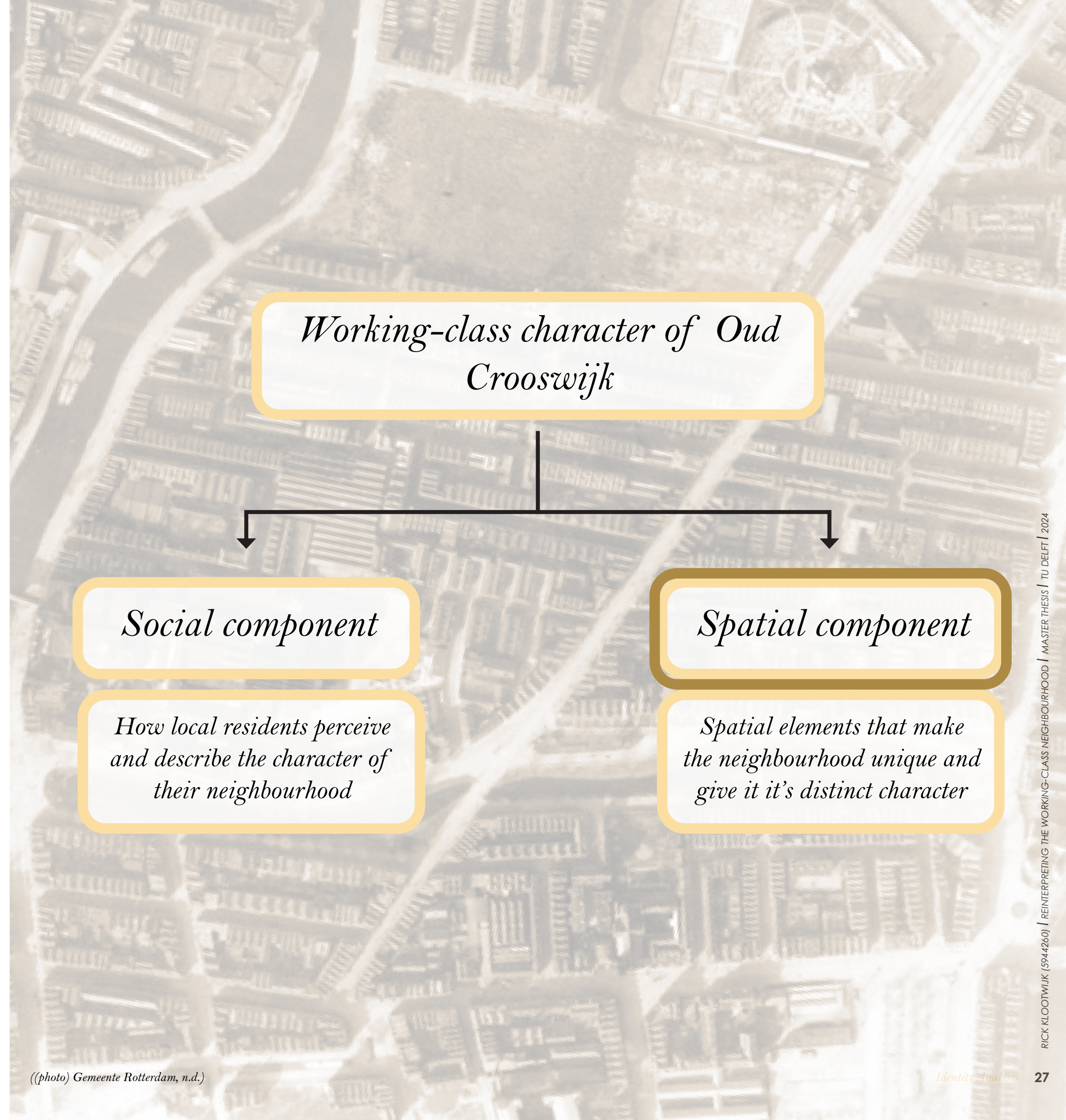
48%

Of the total working population of Oud Crooswijk has a working-class profession

(Onderzoek010 - Werk en Inkomen -Rotterdam, 2024)



Defining the spatial character of Oud Crooswijk



Working-class character of Oud Crooswijk

Social component

*How local residents perceive
and describe the character of
their neighbourhood*

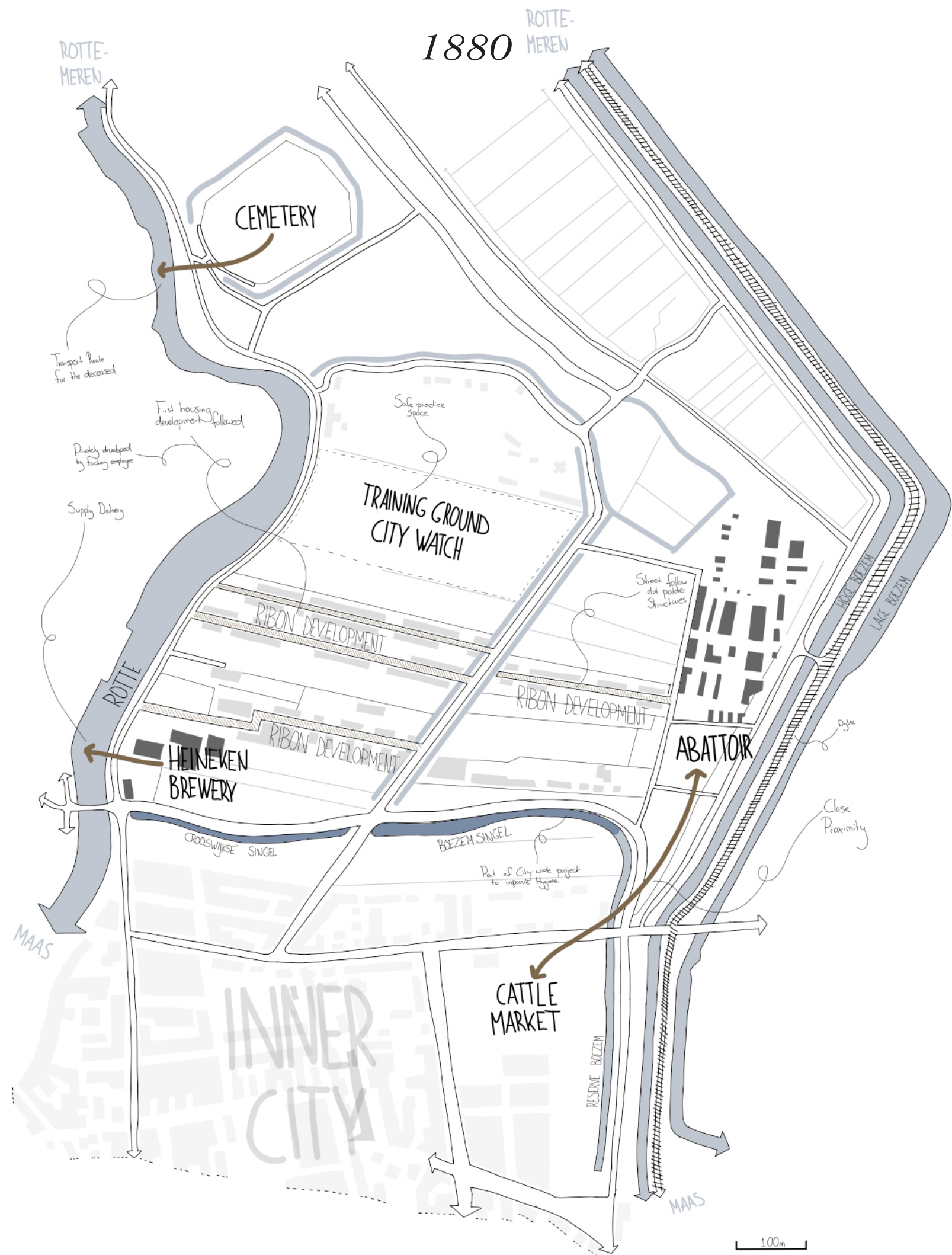
Spatial component

*Spatial elements that make
the neighbourhood unique and
give it it's distinct character*

Crooswijk

Early development

- Originated in the late 1800s
- Non-planned city-expansion
- Unwanted industries for the inner-city
- Urbanization of local polders



Crooswijk

Densification

- Speculative development
- Following old waterways
- Heavy densification
- Compact public space as a result
- Expensive houses along the singels



Crooswijk

Birth of Nieuw Crooswijk

- Further expansion of Rotterdam
- Planned development



Crooswijk

Large scale urban renewal

- Oud Crooswijk was not hit during the bombings of WWII
- Focus was on rebuilding the city
- Crooswijk was neglected in the years following WWII

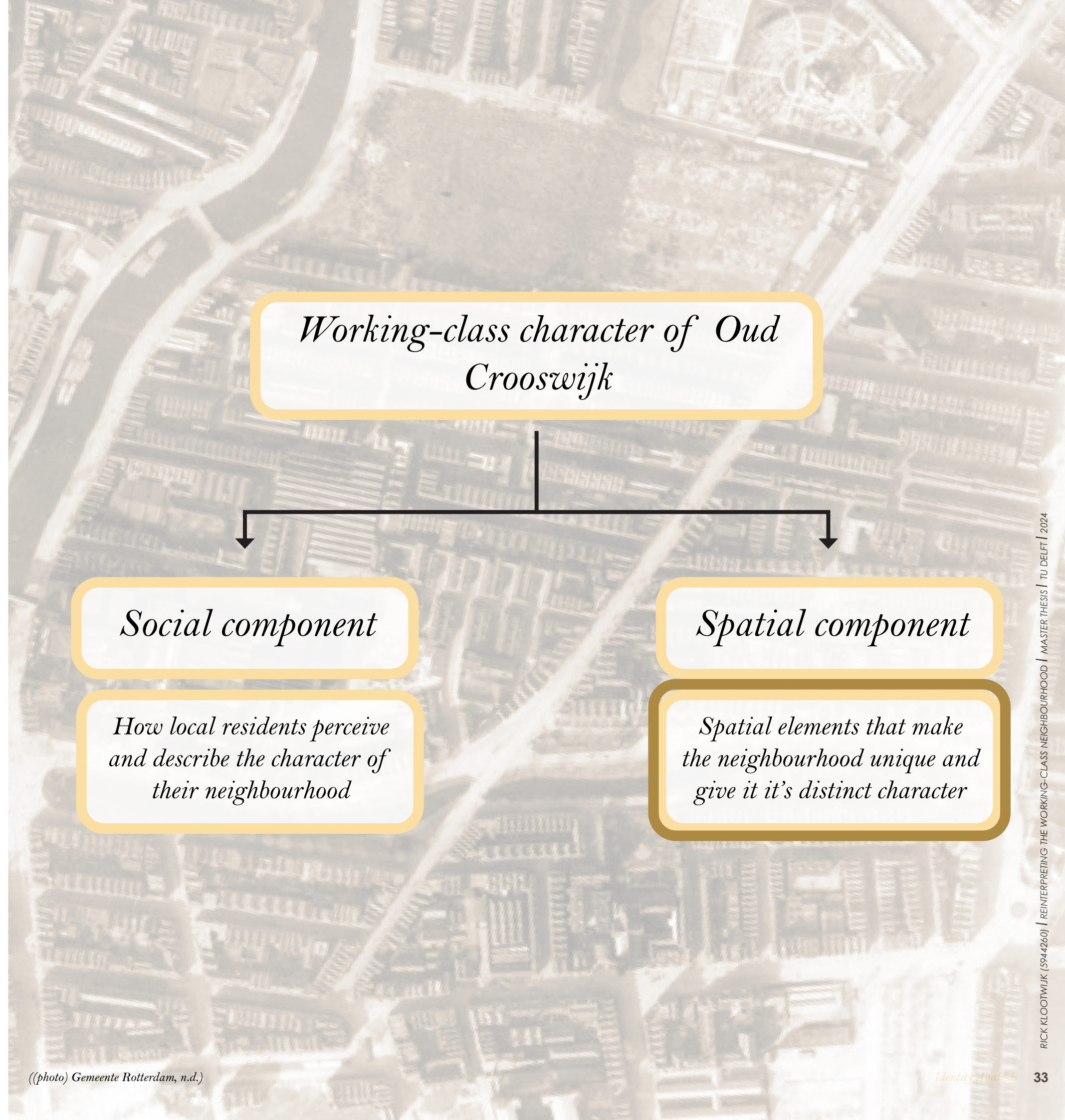


Comparing the urban layout Then vs Now

- Old waterway parcellation
- Closed building blocks
- Compact public space



Defining the spatial character of Oud Crooswijk



Working-class character of Oud Crooswijk

Social component

*How local residents perceive
and describe the character of
their neighbourhood*

Spatial component

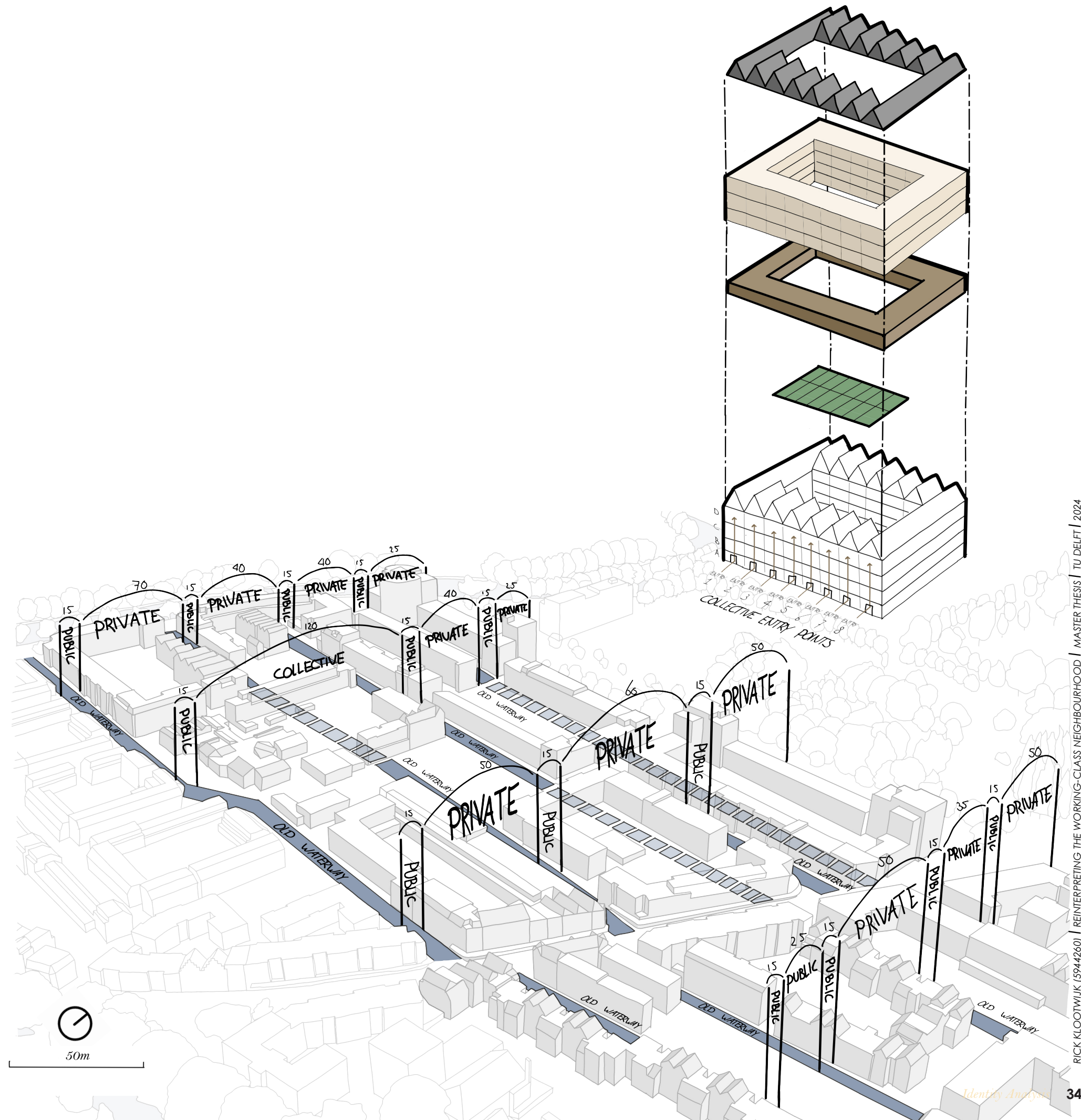
*Spatial elements that make
the neighbourhood unique and
give it it's distinct character*

Characterizing elements

Spatial identity-carriers

Original spatial characteristics

1. Old waterway parcellation
2. Compact public space
3. Closed building blocks with tenement housing



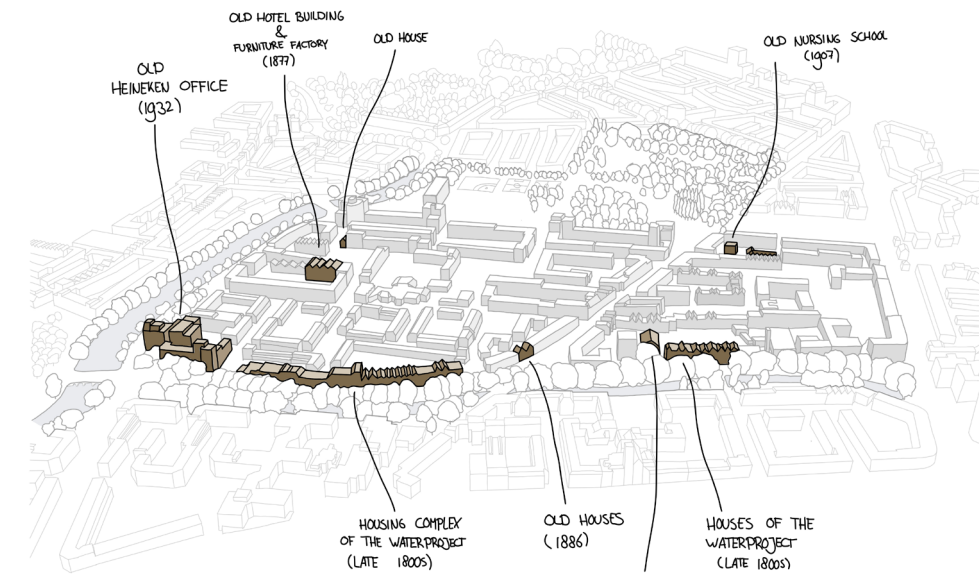
Characterizing elements

Other spatial identity-carriers

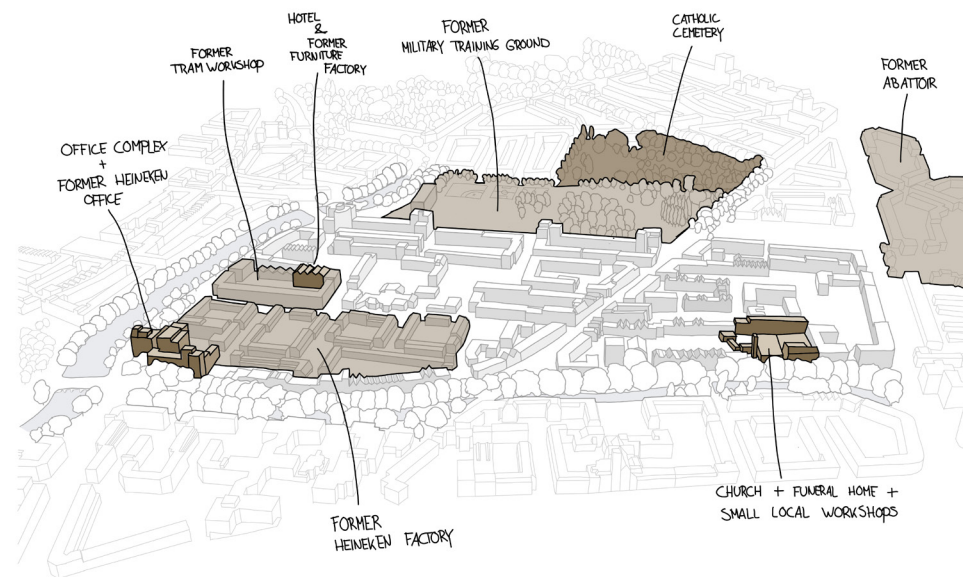
4. Social housing
5. Urban ensemble
6. Historical objects
7. Enclosing green structures
8. Open spaces & courtyards
9. Low urban density
10. Car dedicated public space
11. Working in the neighbourhood
12. Cozy neighbourhood heart



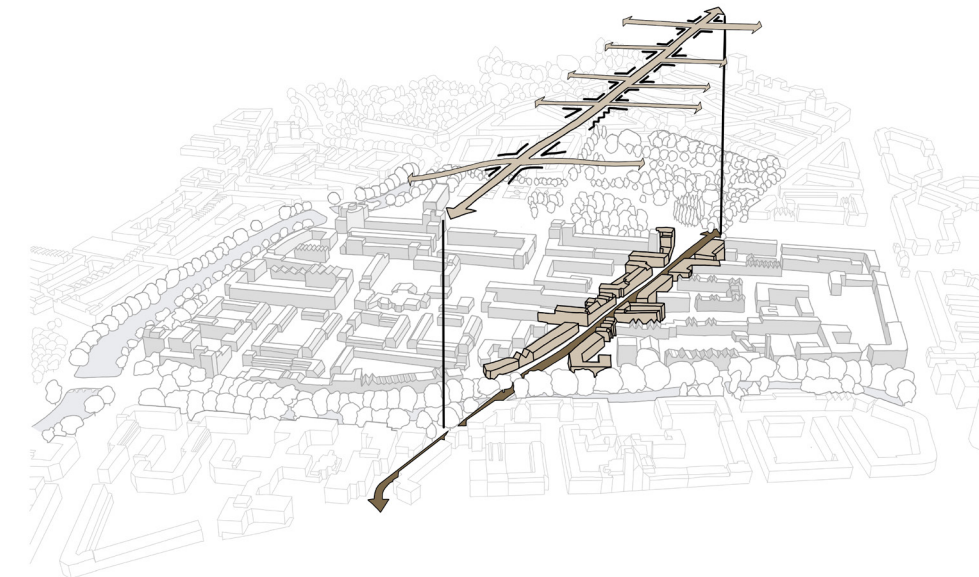
Urban ensemble



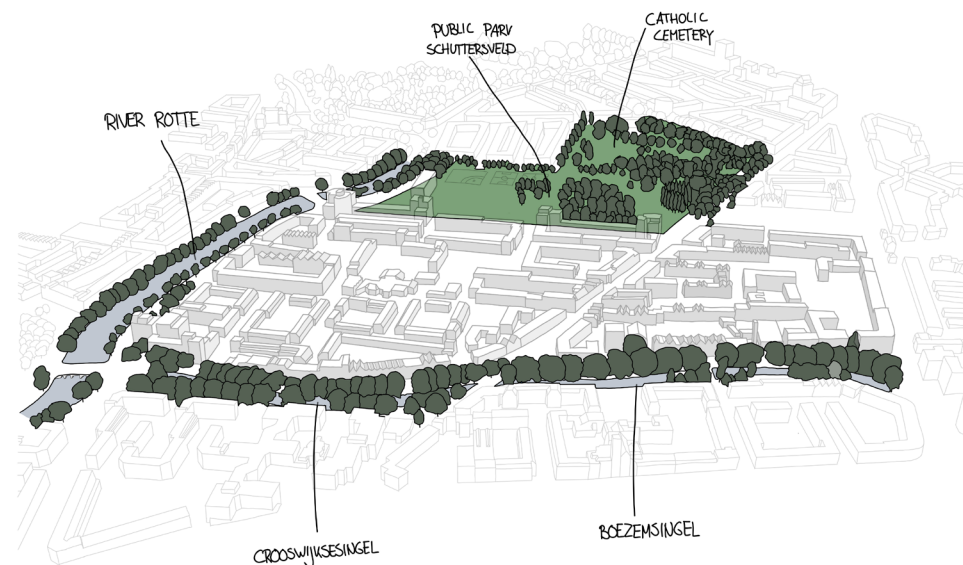
Historical objects



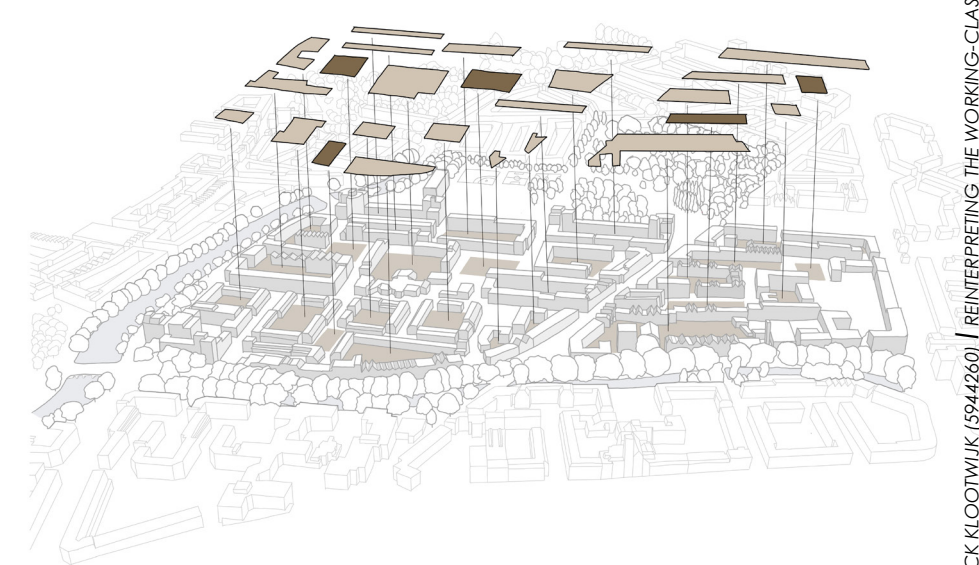
Working in the neighbourhood



Cozy neighbourhood heart



Enclosing green structures



Open spaces & courtyards

Working class character of Oud Crooswijk in the 21st century

*The tangible characterizing elements and remnants that have derived from the
industrial history of the neighbourhood'*

Identity goal

*“Preserving the spatial identity-carriers of the **present** and
anticipating on potential carriers for the **future**”*

*Reinterpreting the
working-class neighbourhood*

Design assignment

06



(Rotterdam City archive)

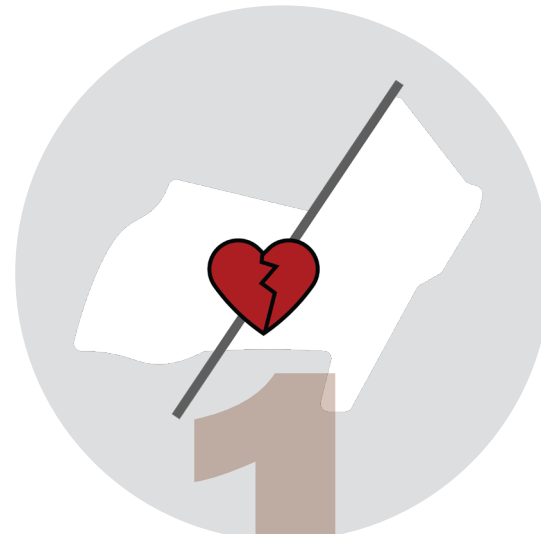
Design assignment

*“Oud Crooswijk as a **re**interpretation of
the traditional **working-class** neighbourhood”*

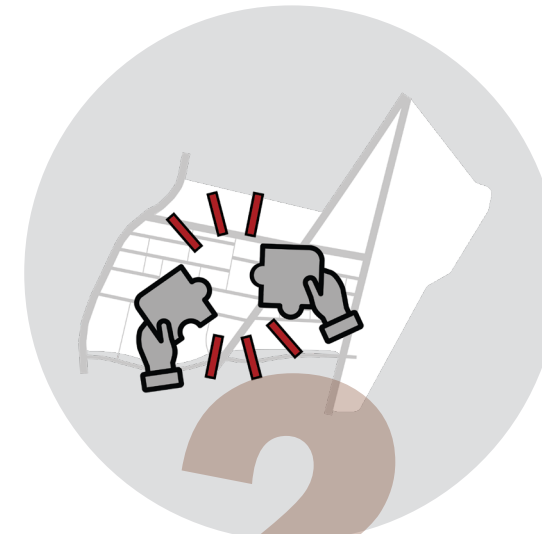
Reinterpreting the working-class character

- Urban renewal goal
- +
• Identity goal

5 subassignments



Revitalizing the neighbourhood heart



Creating more spatial coherence



Improving the liveability



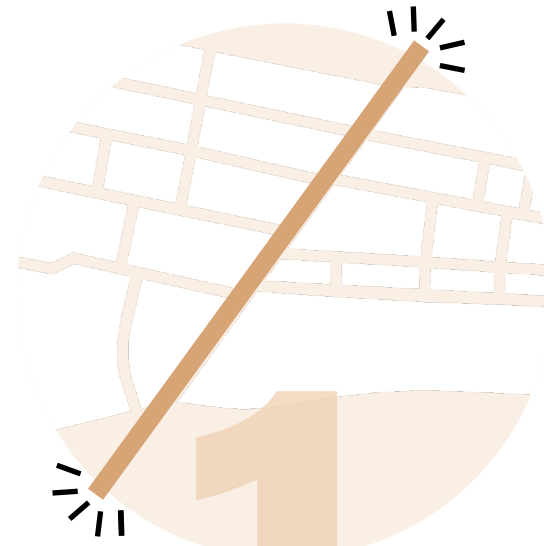
Finding a place for the car



Offering a place to work

Een dorp in de stad
Design vision





*De Crooswijkseweg as
the main street*



*Old waterways as
green image carriers*



*Neighbourhood gardens &
renovated building blocks*



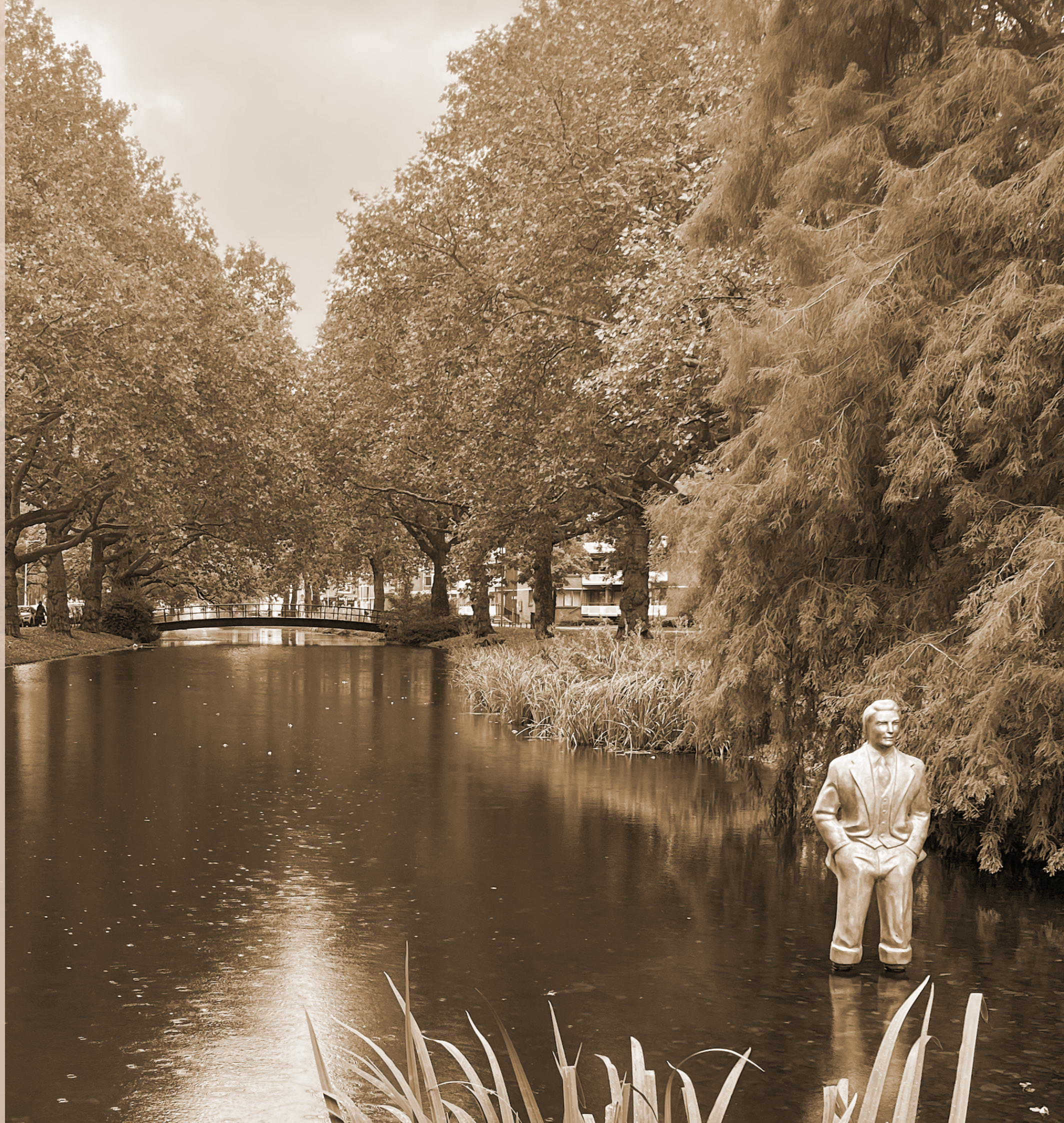
*A pedestrian friendly
neighbourhood with room
for the car*



Neighbourhood workshops

*Translating the vision
to Design
Design principles*

08



Overarching

0A: Preserving the enclosing green structures

0B: Preserving the current spatial density

0C: Renovation over demolition & reconstruction

0D: Greening and cooling the neighbourhood

0E: Tree lines connecting the enclosing green structures

0F: Romanticizing the industrial past through materialization

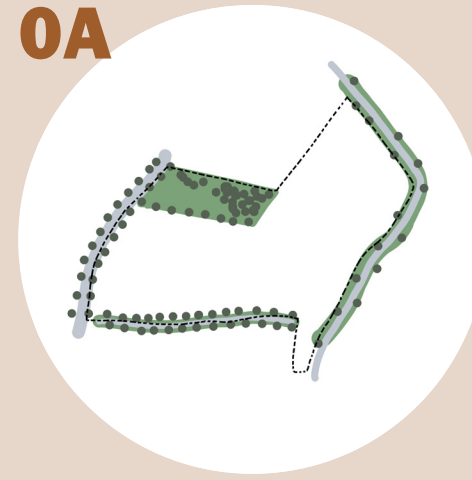
0G: The toolkit Rotterdamse Stijl as base for materialization of the public space

0H: Enhancing the quality of public and collective spaces

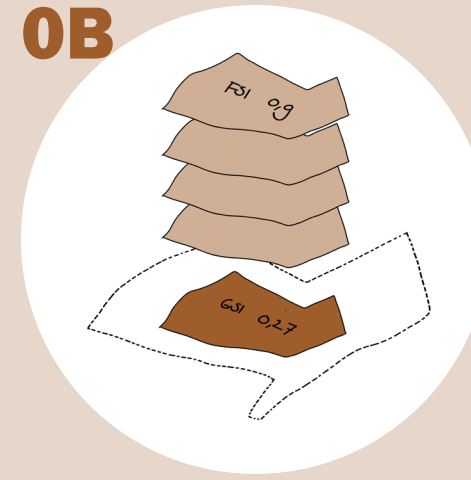
0I: Phasing out personal vehicles

0J: More room for cyclists & pedestrians

0A



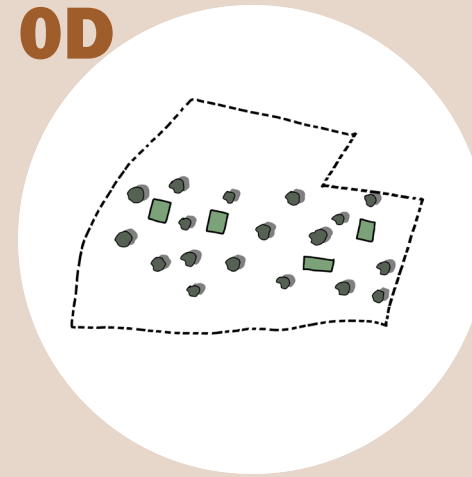
0B



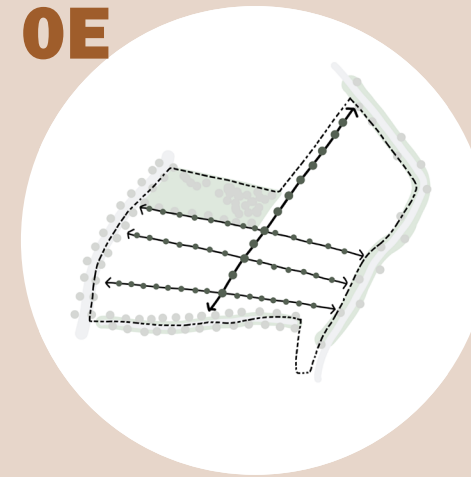
0C



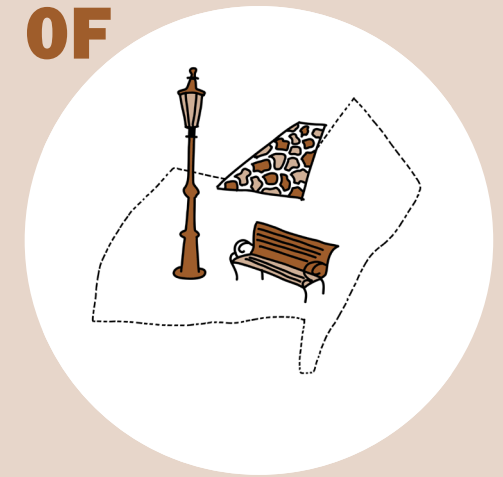
0D



0E



0F



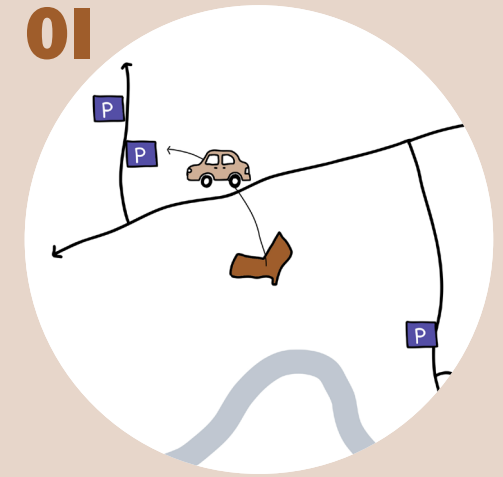
0G



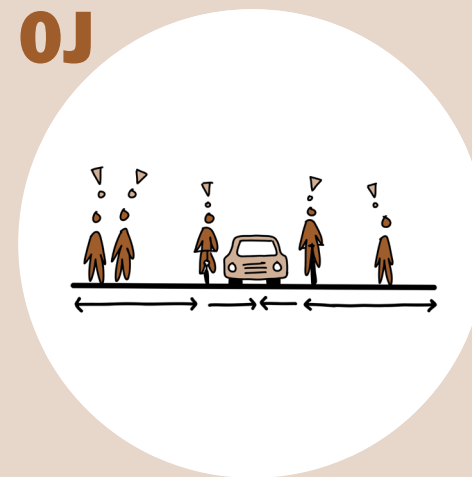
0H



0I



0J



Crooswijkseweg as the main street

1A: Street profile proportions of at least 1:1

1B: Activating plinths

1C: Creating more space to stay

1D: Greening by adding trees

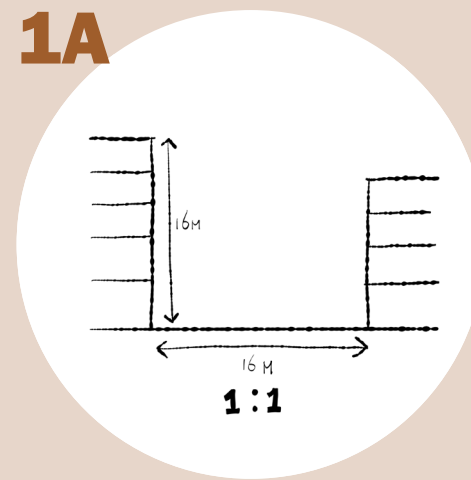
1E: Clustering local services and amenities

1F: No car parking space

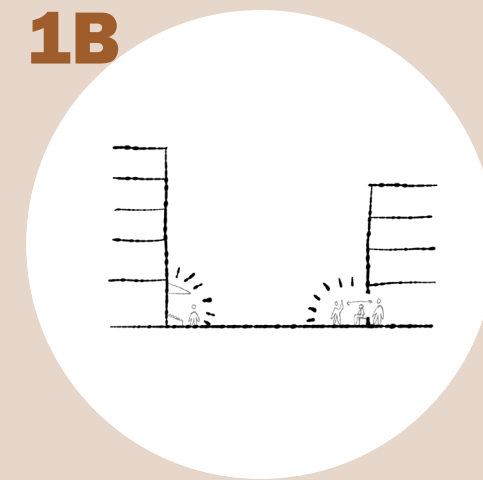
1G: Dedicated supply and delivery zones

1H: Preserving characteristic parcel- and building corners

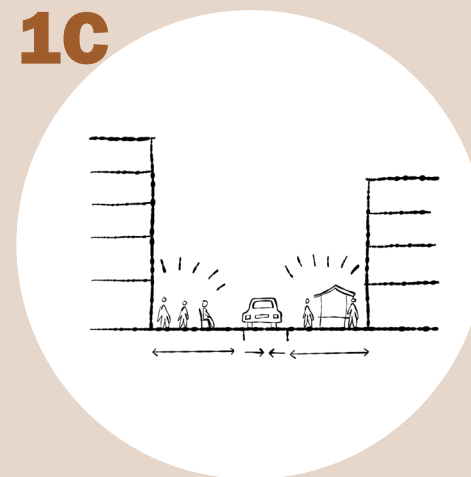
1A



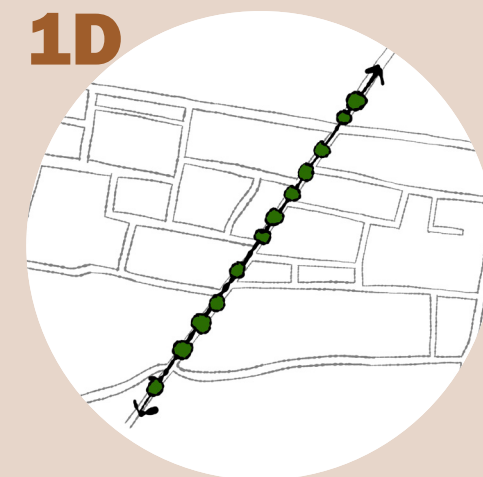
1B



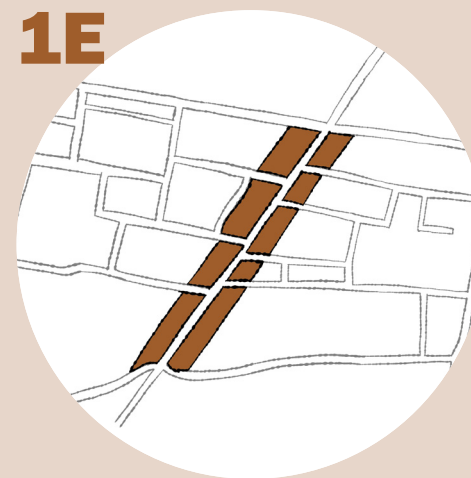
1C



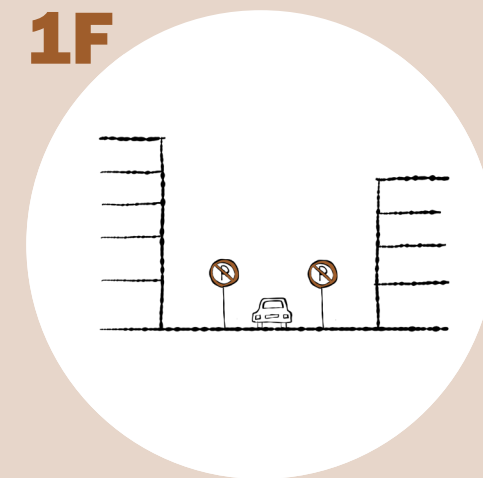
1D



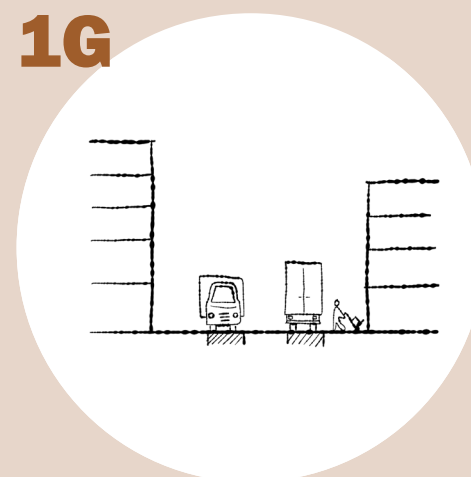
1E



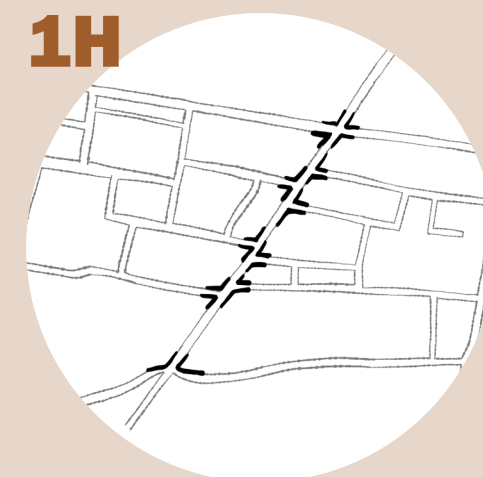
1F



1G



1H



2 Old waterways as image carriers

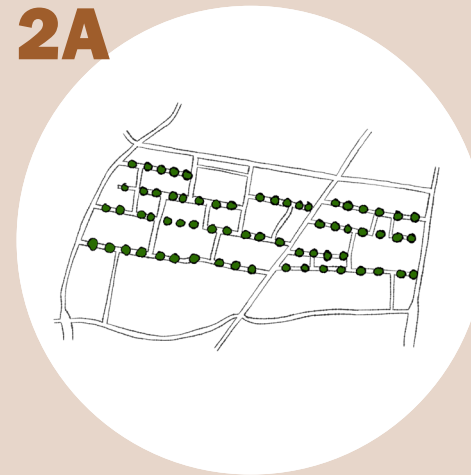
2A: Adding trees on the old waterways

2B: Each waterway it's own character

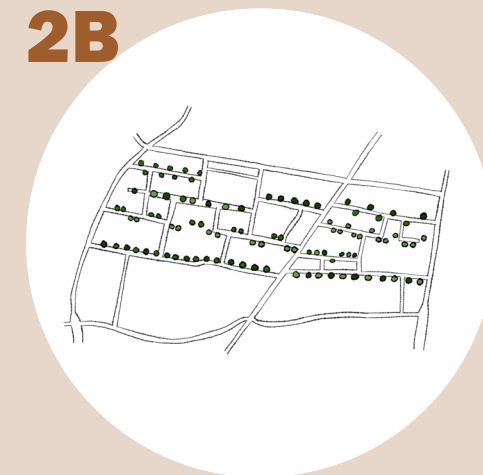
2C: Fully integrating street furniture into street profile

2D: No car parking space

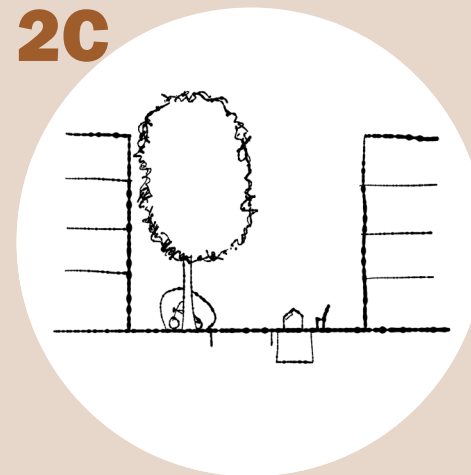
2A



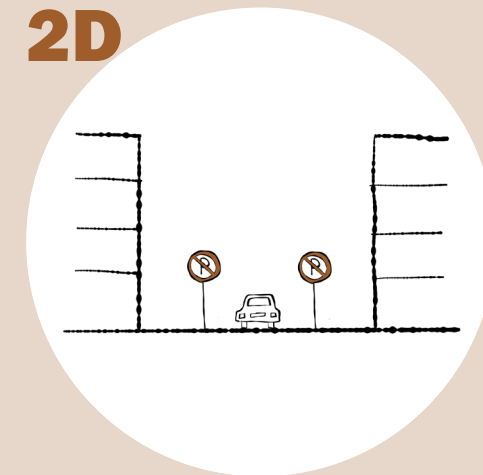
2B



2C



2D



3

Neighbourhood gardens & renovated building blocks

3A: Preserving the spatial characteristics of a not-planned expansion neighbourhood

3B: Medium sized apartment houses

3C: Tenement building entries

3D: Many facade openings

3E: Three-way split facades

3F: Flat or pitched roofs

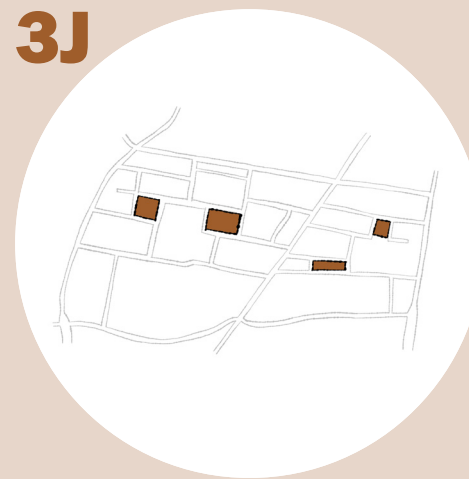
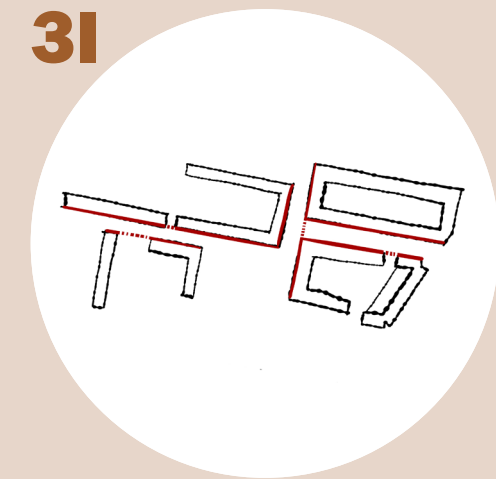
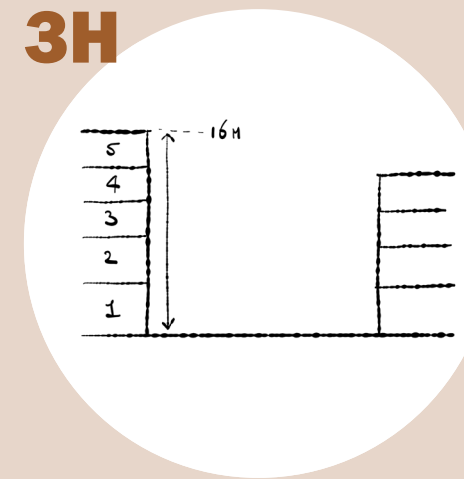
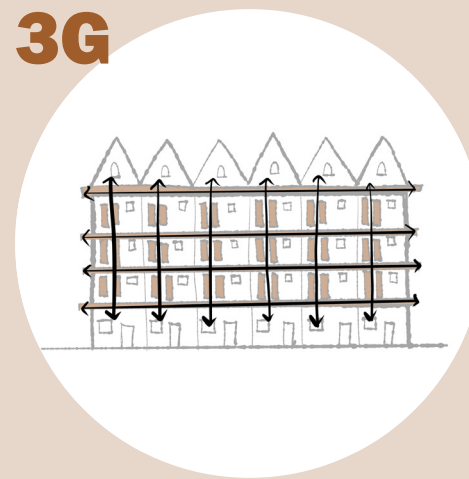
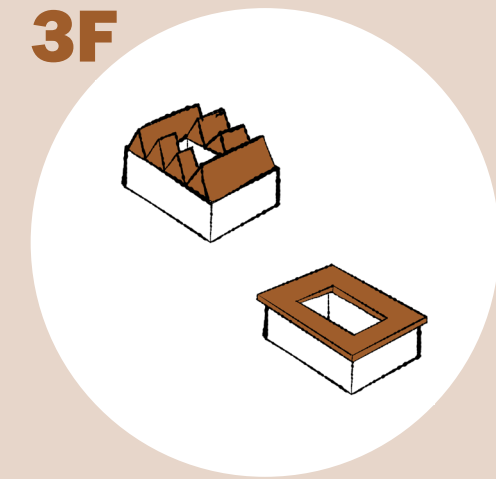
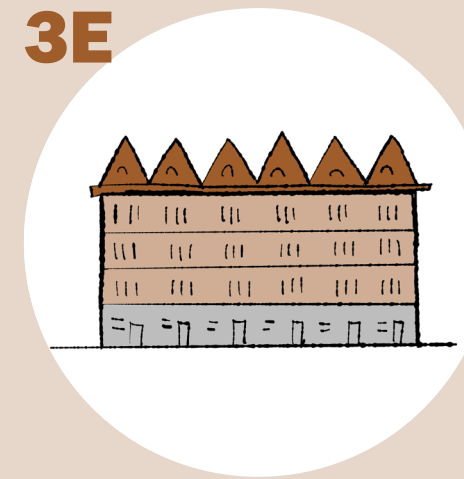
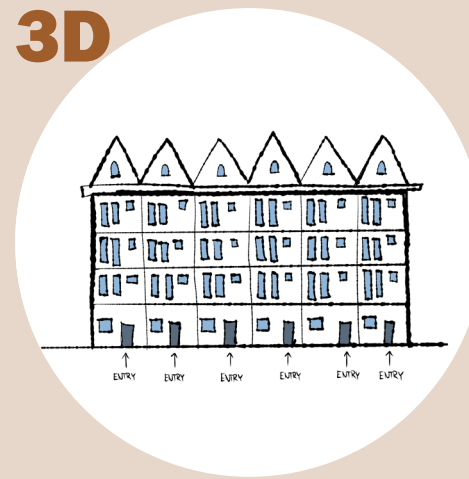
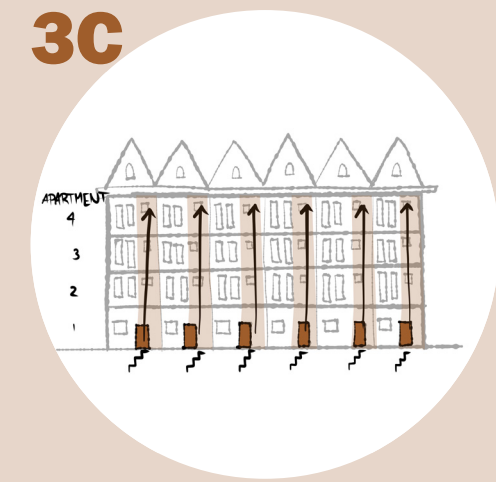
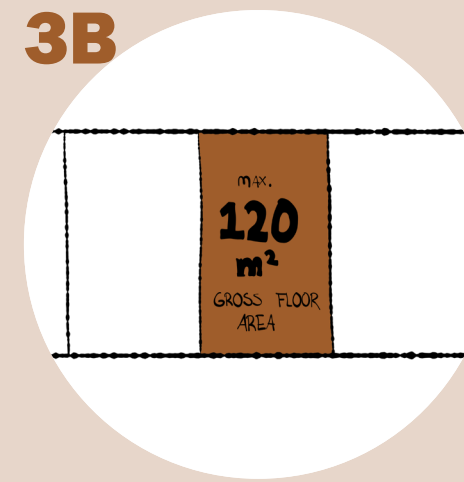
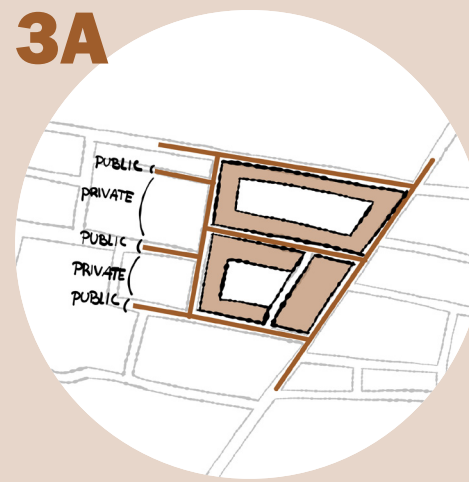
3G: Interwoven horizontal and vertical facade elements

3H: Maximum building height of 5 layers and 16 meters

3I: Straight building lines

3J: Preservation of historic and monumental elements

3K: Presence of open spaces



4

A pedestrian friendly neighbourhood

4A: No (personal) car parking space

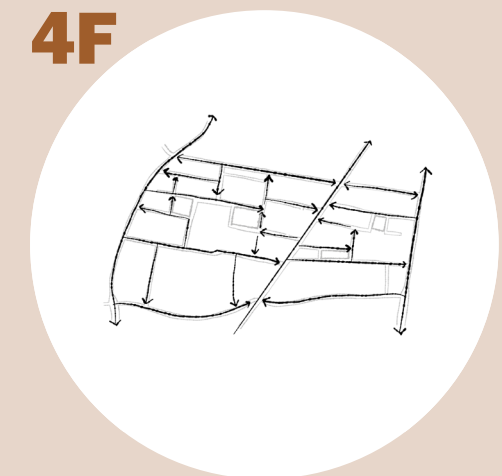
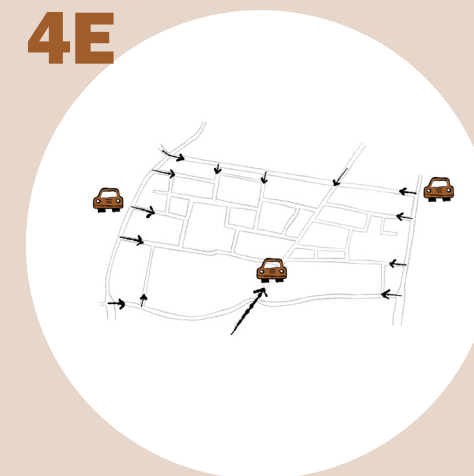
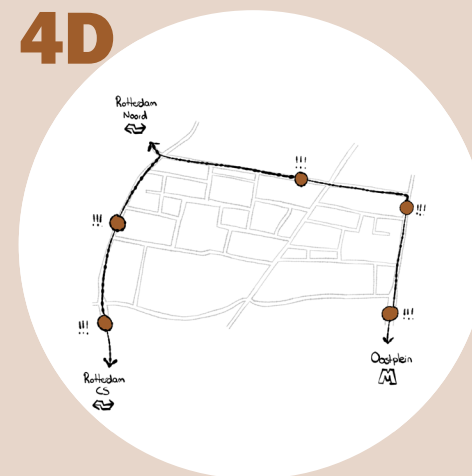
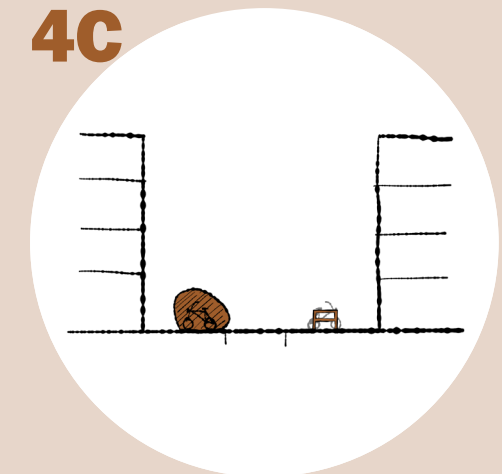
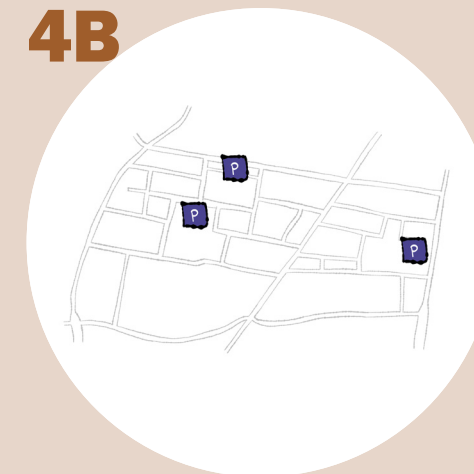
4B: Clustered parking facilities for commercial vehicles

4C: Creating more bicycle parking facilities

4D: Preserving and enhancing accessibility by public transit

4E: Neighbourhood remains accessible by cars

4F: One-way streets



5

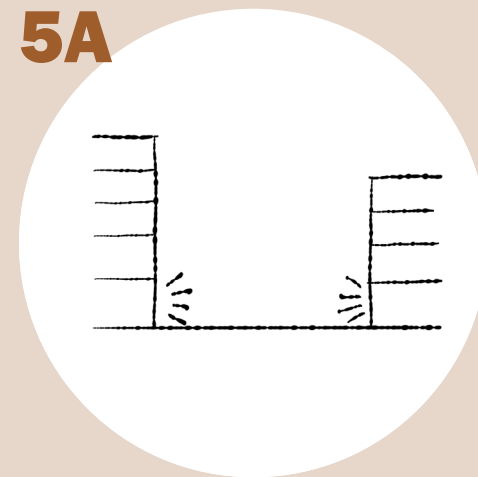
Neighbourhood workshops

5A: Activating plinths

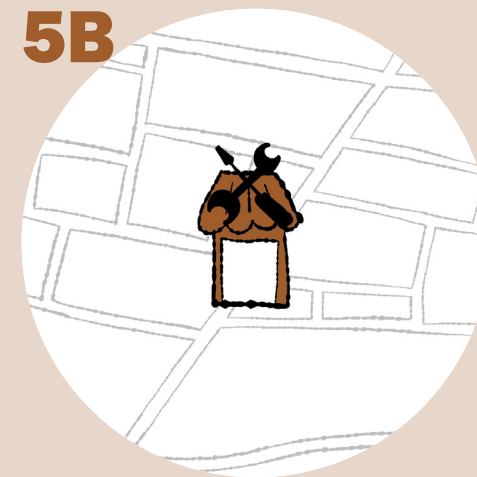
5B: Local “working-class” stores

5C: Collective storage units for tools and equipment

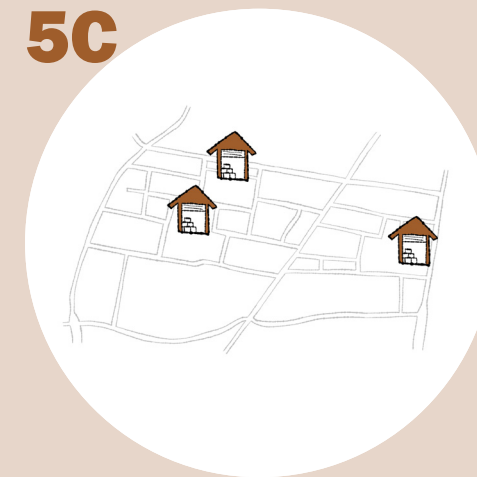
5A



5B



5C



The Design

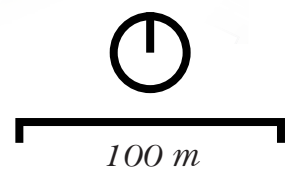
Potential masterplan & key interventions



09

Current situation

Oud Crooswijk



Proposed masterplan

Oud Crooswijk: Een dorp in de stad



To demolish & Transform

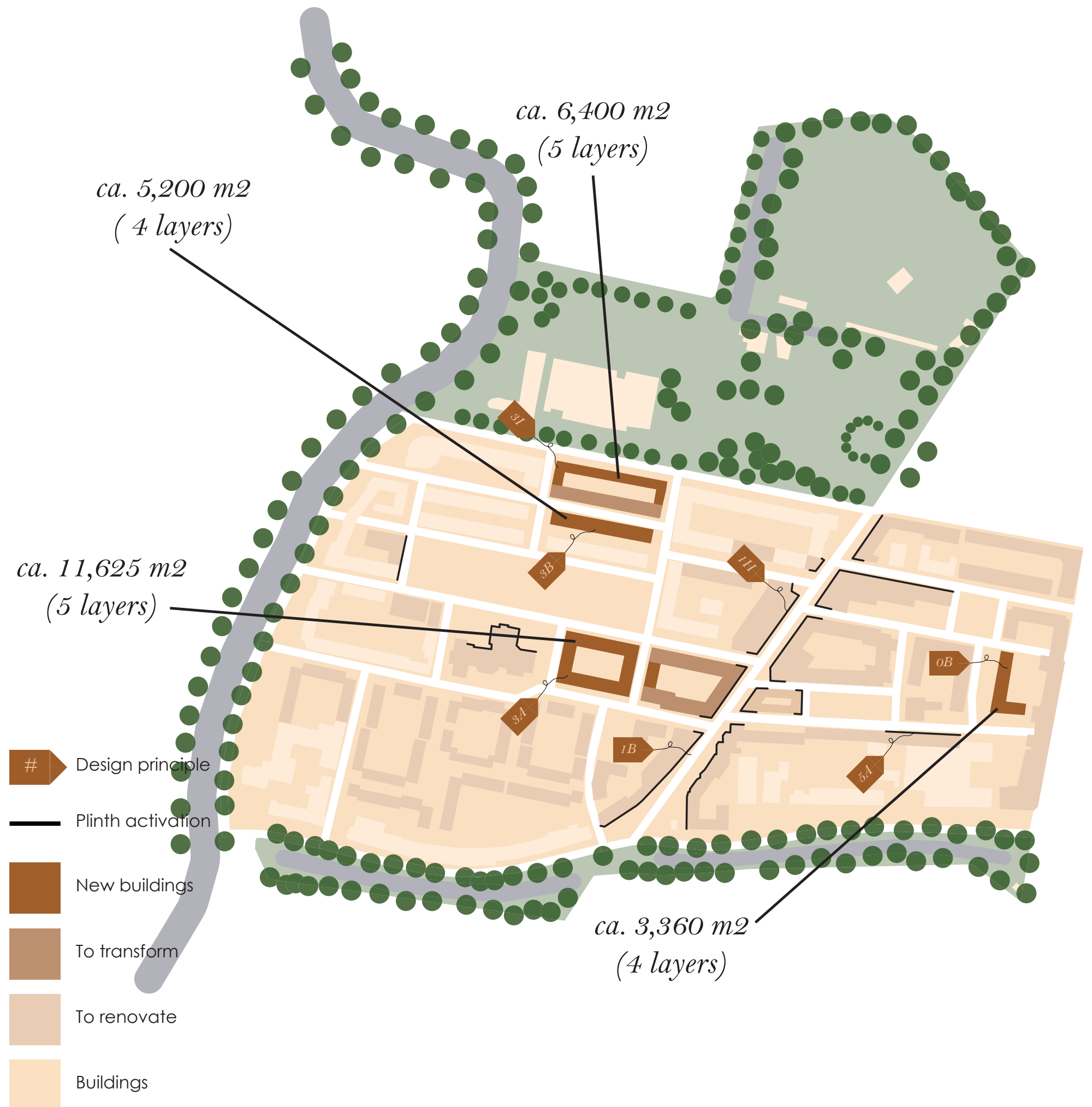
- Minimal demolition
- Functions to be removed
 - 186 houses
 - 1 school gym
 - 1 kindergarten



To build & renovate

- Full compensation
- Total new floor space:
26,585 m²
- Newly developed

| | |
|----------------|---------------------------|
| 1 Schools | (840 m ²) |
| 1 Kindergarten | (750 m ²) |
| 1 School gym | (375 m ²) |
| 205 | (120 m ² each) |
- Similar urban density



Programme

- Crooswijkeweg as cluster of amenities
- Local workshop areas
- Communal green spaces
- 2 schools



Accessibility

- Creating room for green and slow traffic users
- Clustered parking for commercial vehicles only
- Mostly one-way roads



Materialization

Subtitle

Pavement & Surface



Pavement



Pedestrian pavement



Pedestrian pavement



Turf (play areas)

Trees & Green



Trees (old waterways)



Trees (old waterways)



Trees (old waterways)



Trees (community gardens)



Hedges (front)

Furniture



Street lanterns



Lamp posts



Seating



Planters



Underground container



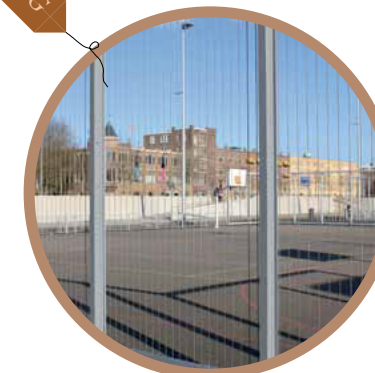
Trash cans



Bicycle storage



Bicycle parking

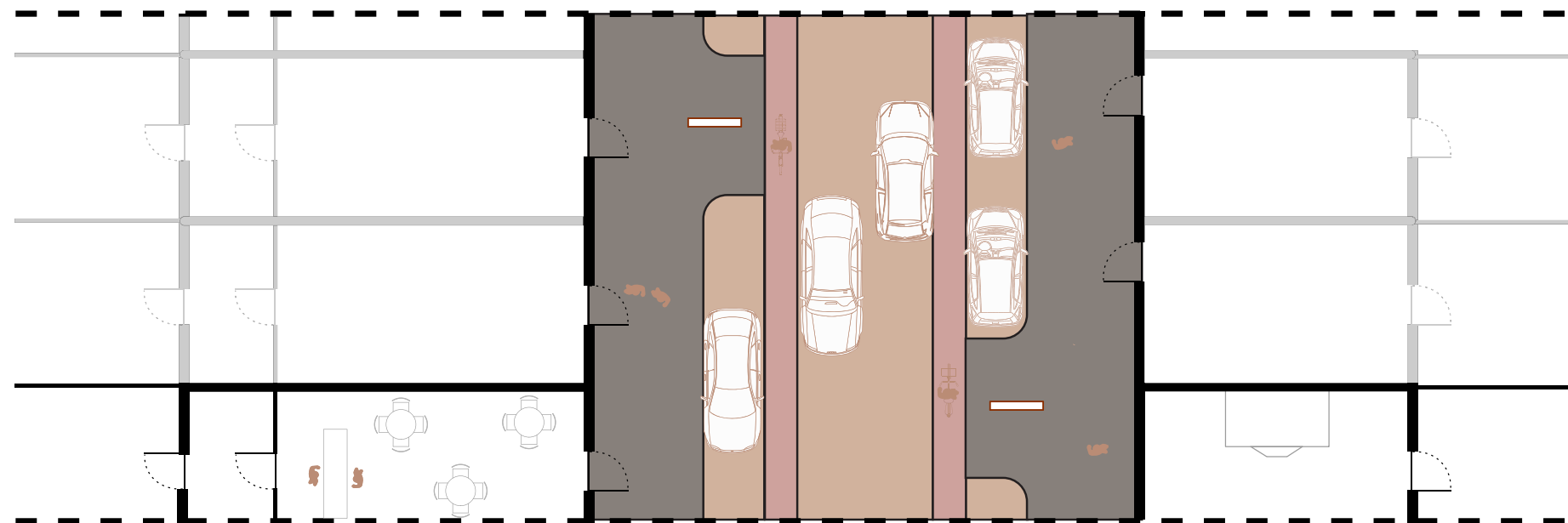
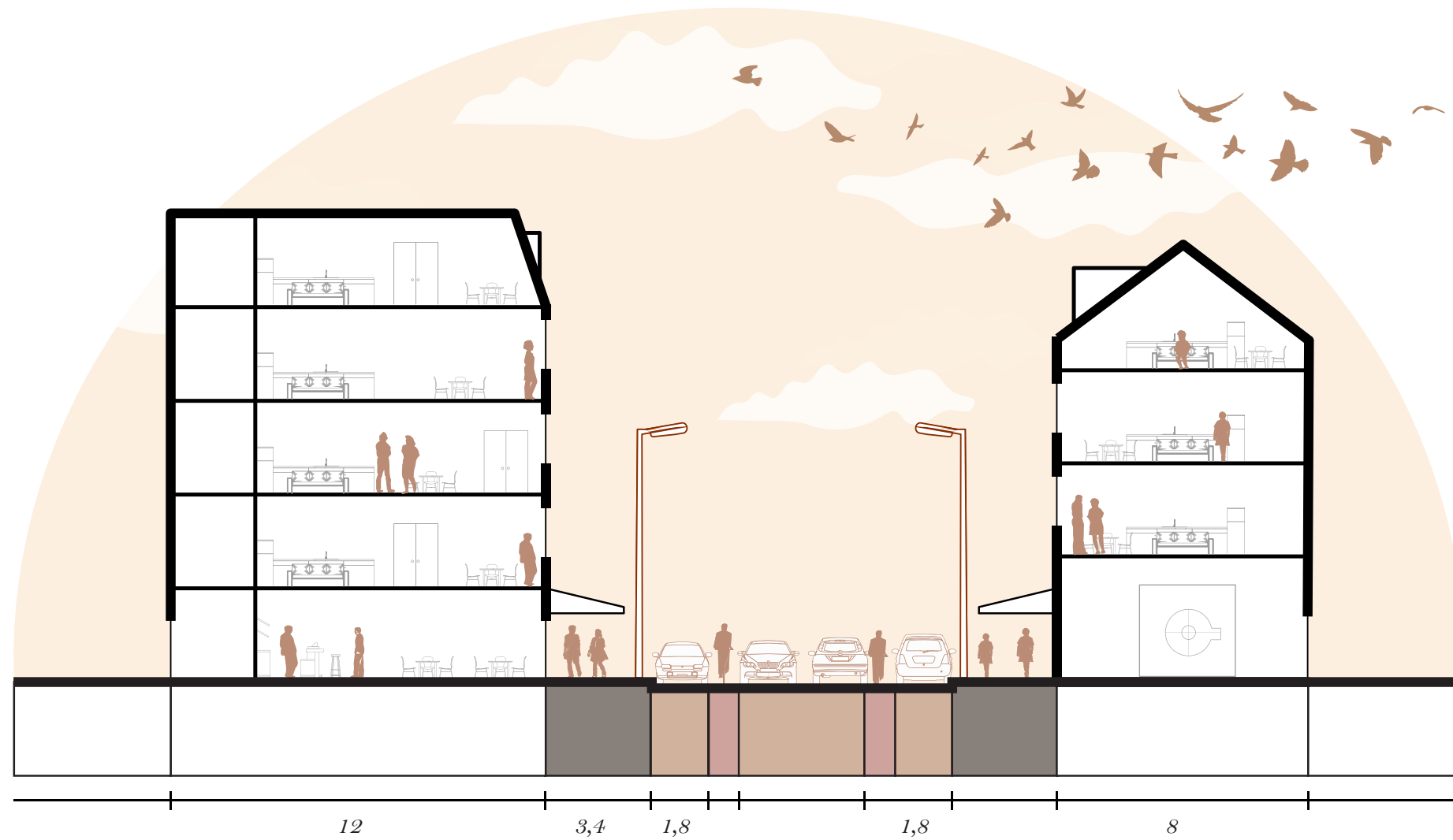


Fencing (play area)

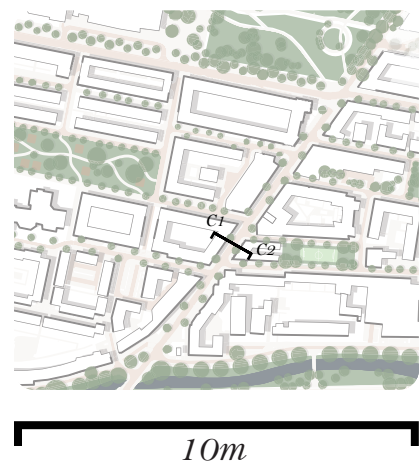
Design principle

Crooswijkseweg

Current situation

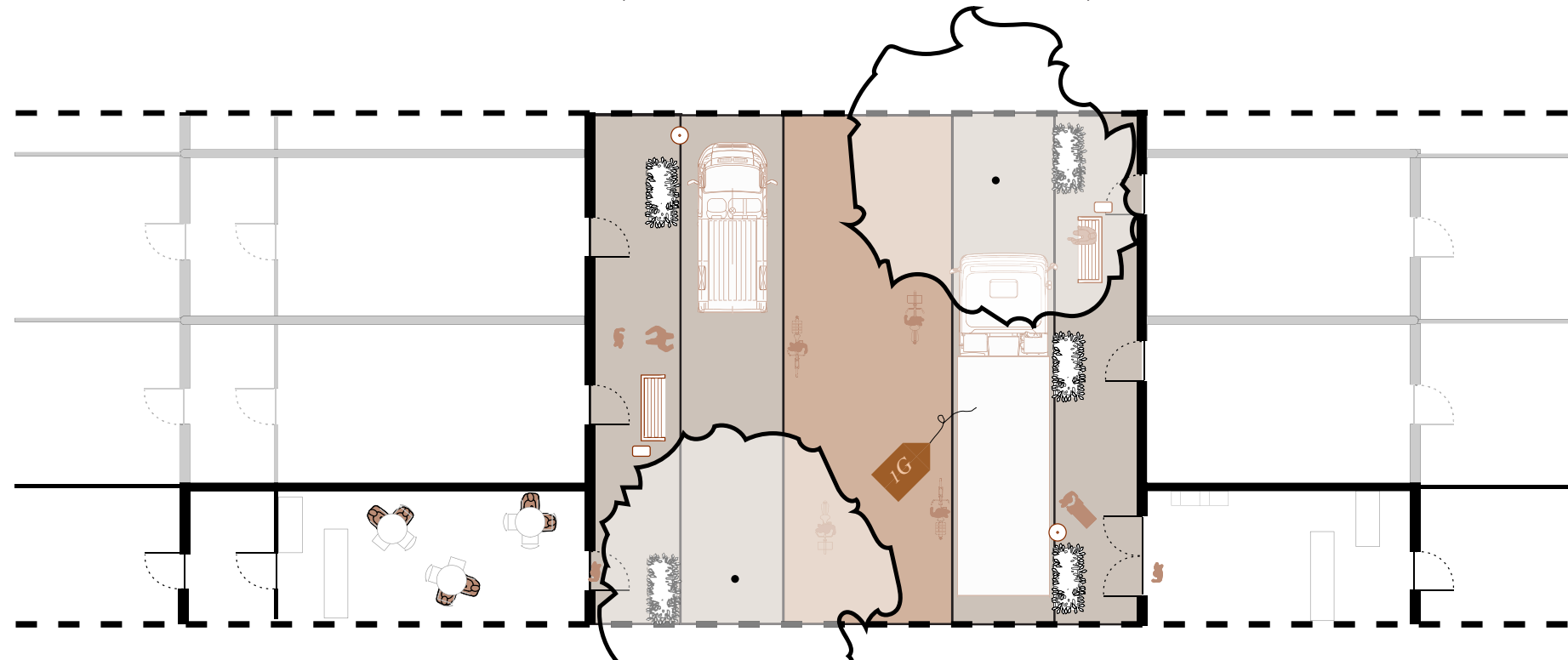
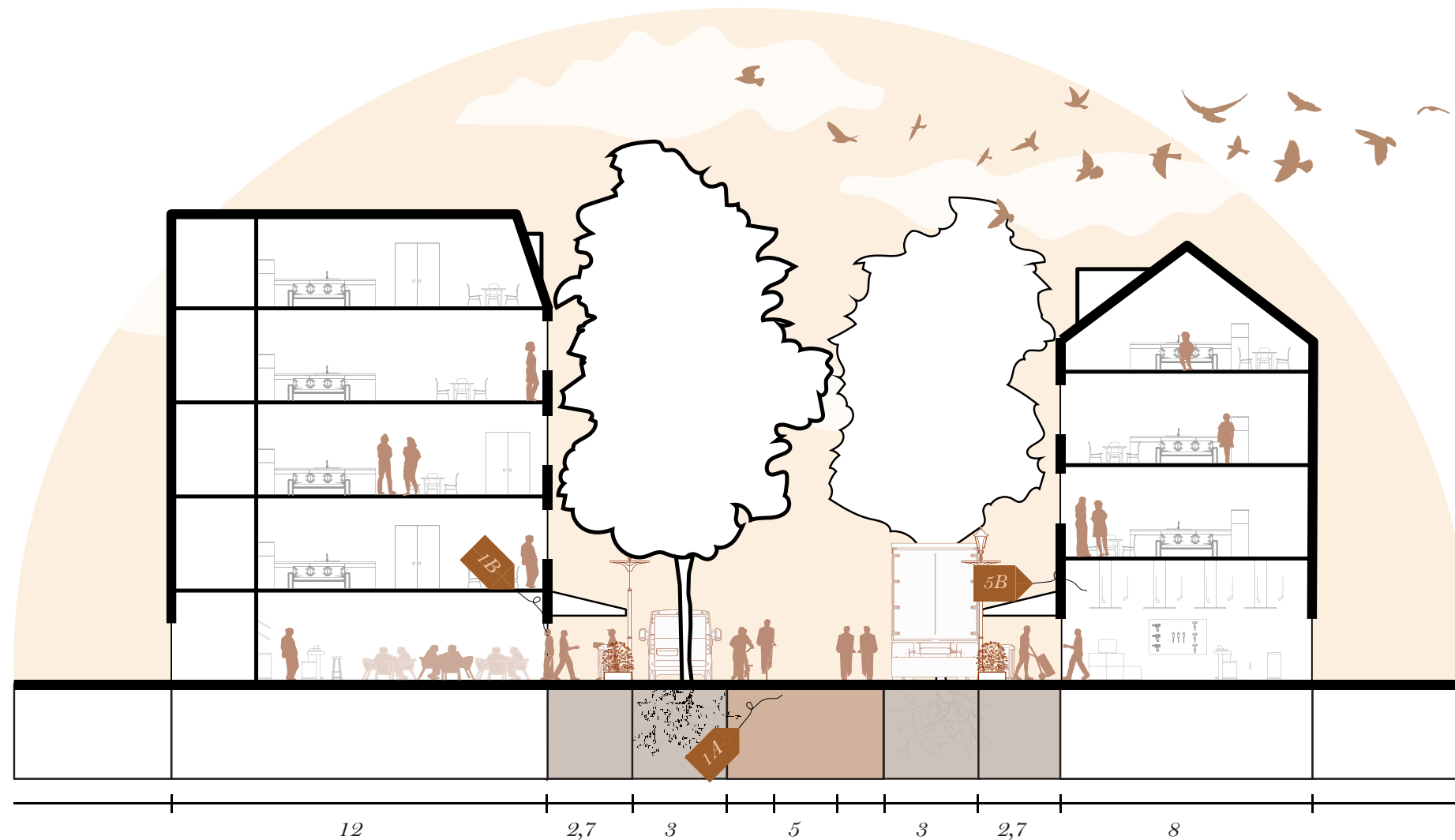


Design principle



Crooswijkseweg

Proposed situation (between delivery hours)

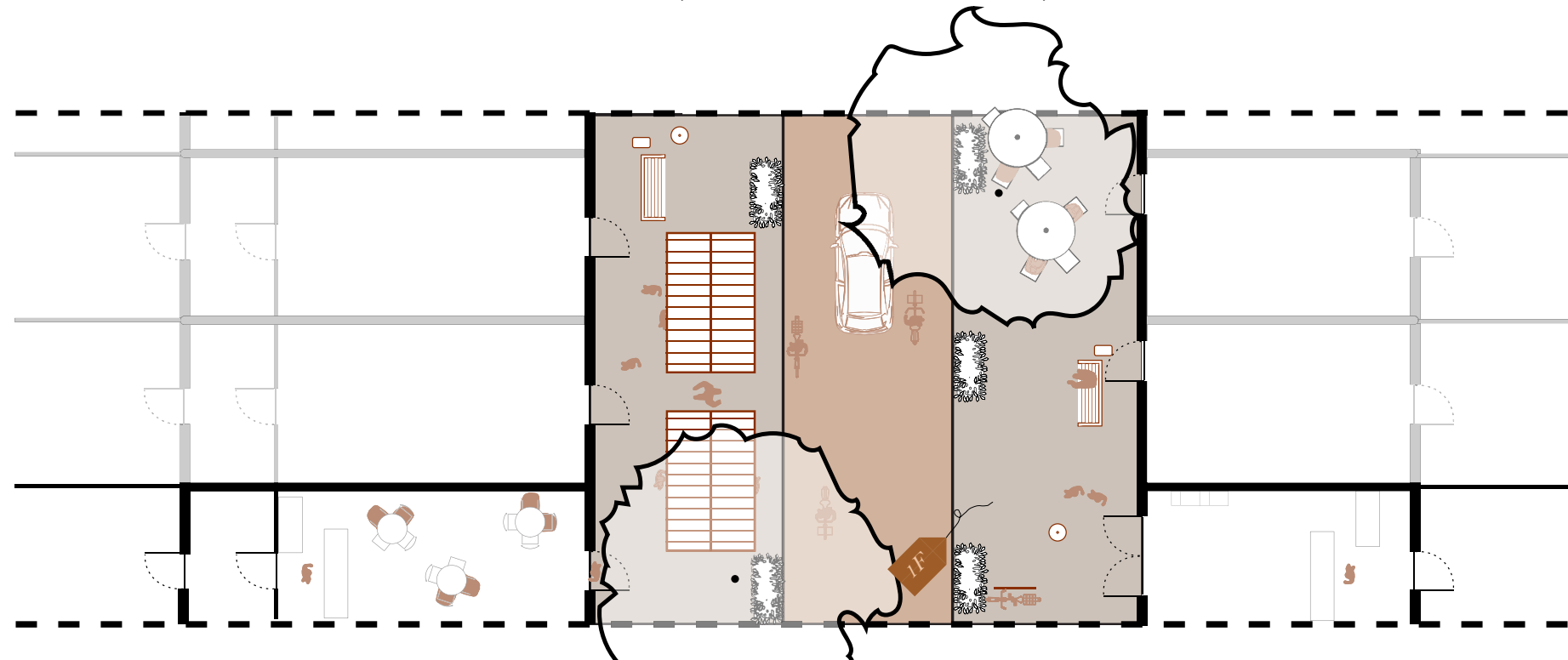
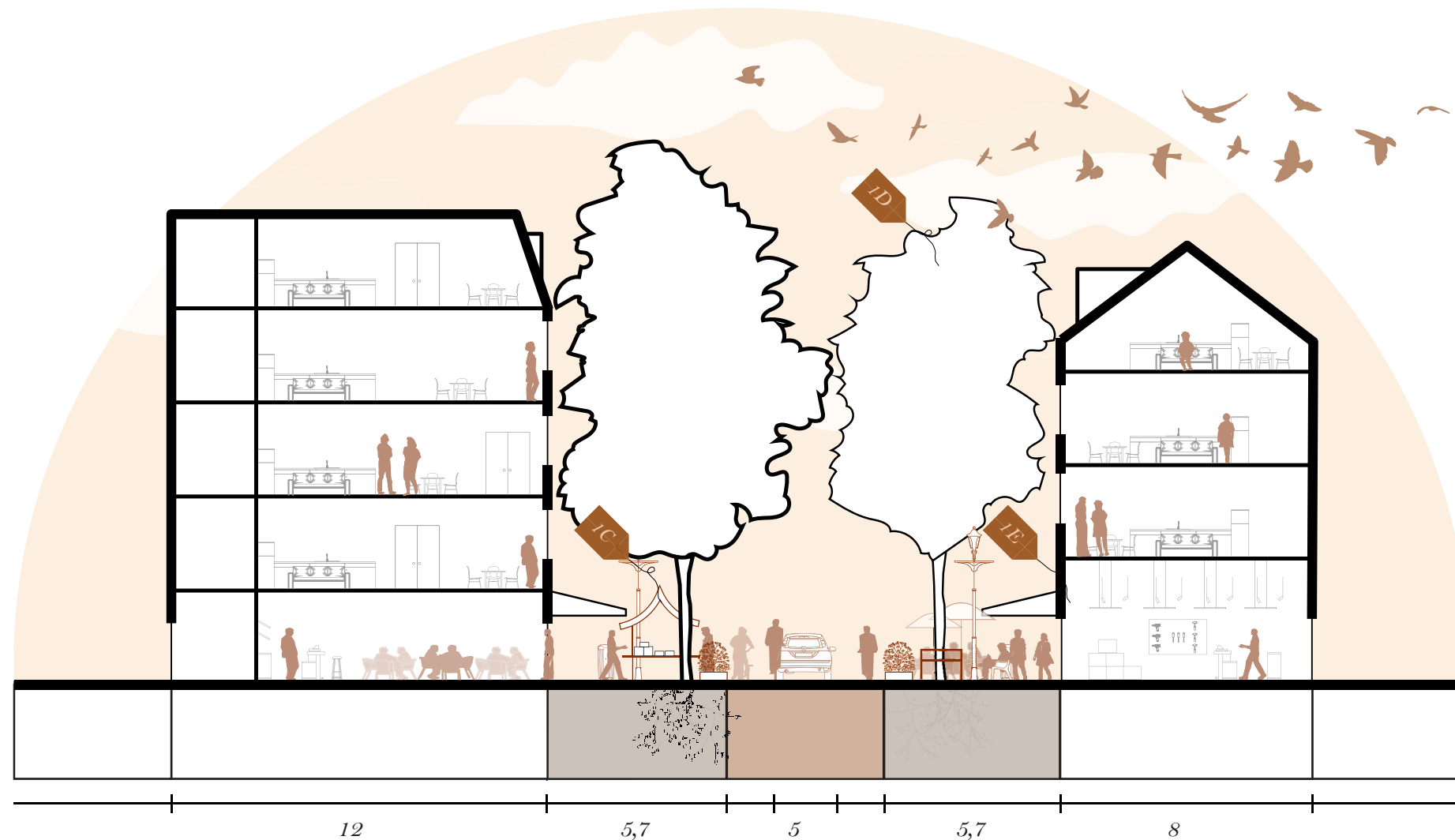


Design principle

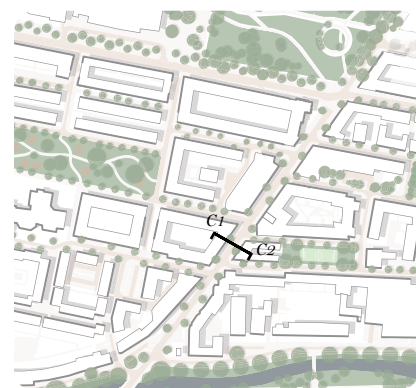


Crooswijkseweg

Proposed situation (between delivery hours)



Design principle



10m

Crooswijkseweg

Atmospheric impression



Crooswijkseweg

Atmospheric impression



Crooswijkseweg

Atmospheric impression

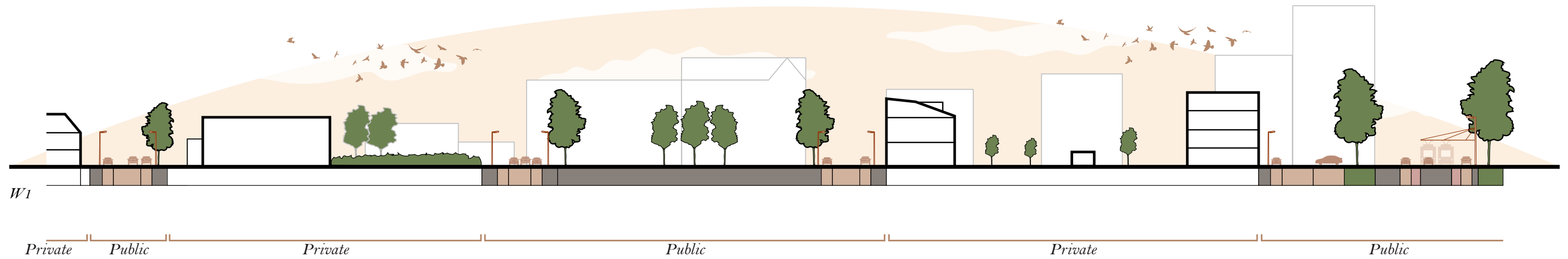




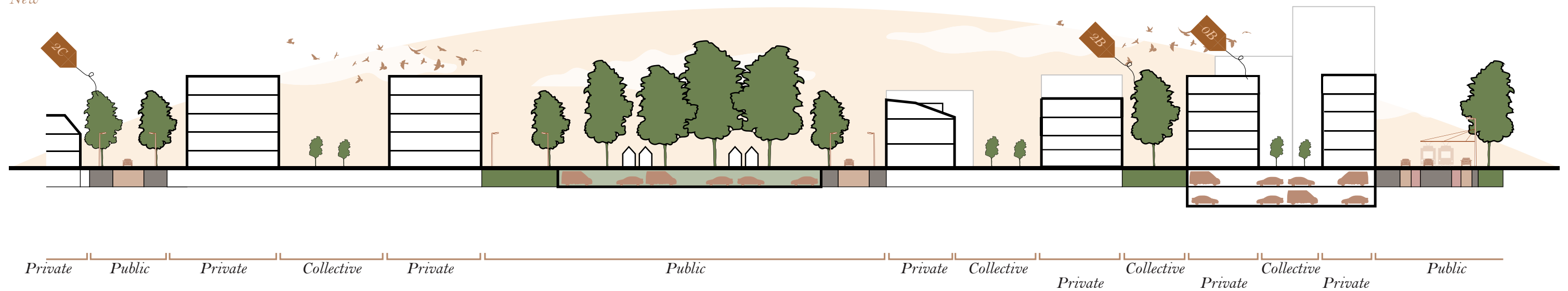
Western old waterways

Proposed situation

Current



New

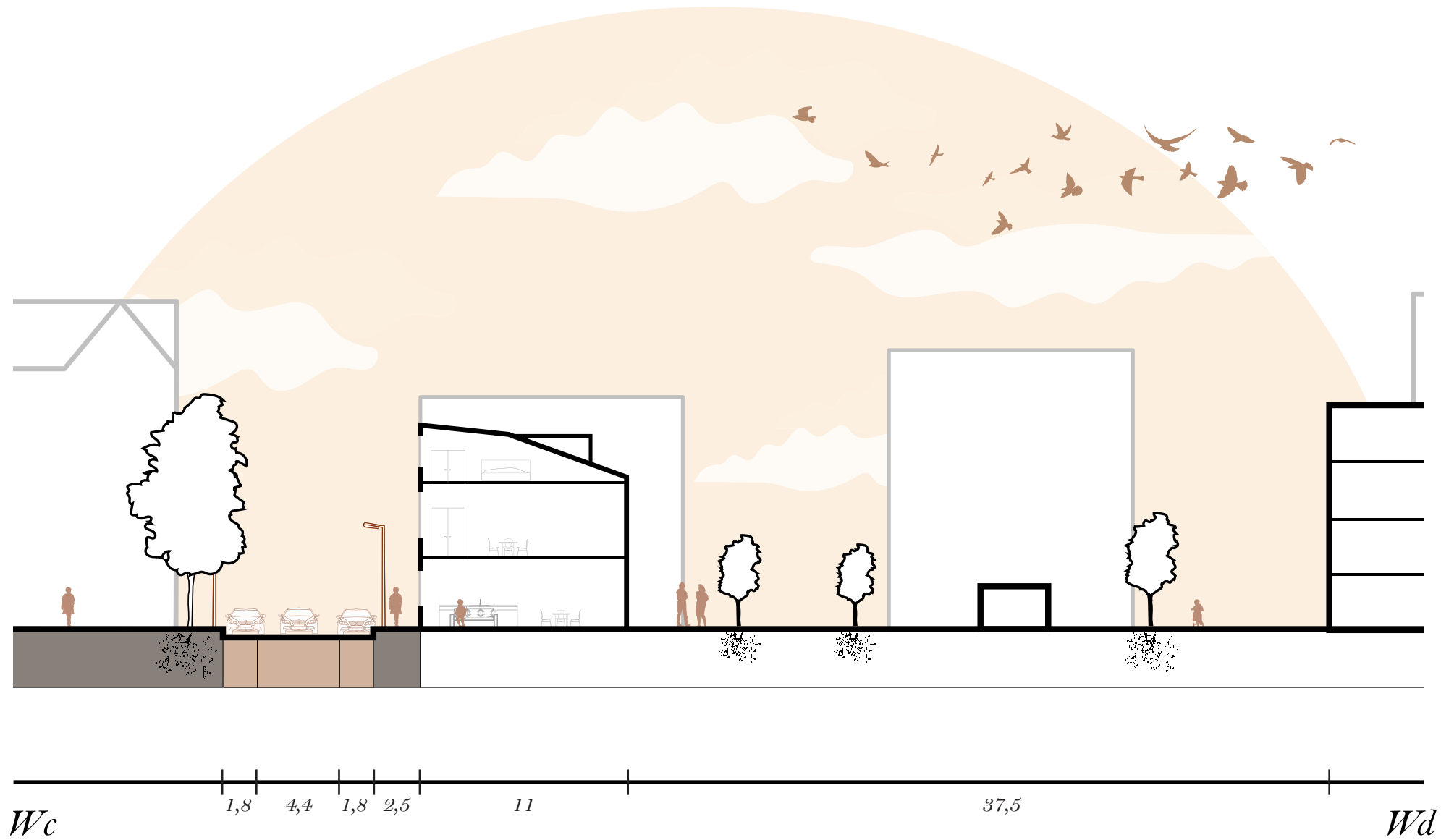


Design principle

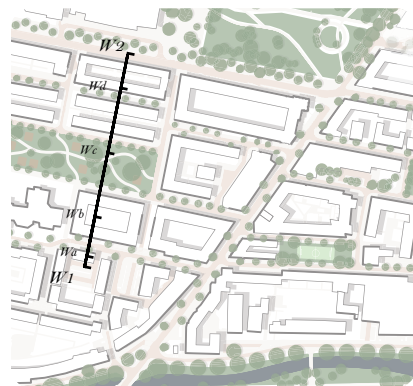
25m

Frederikstraat

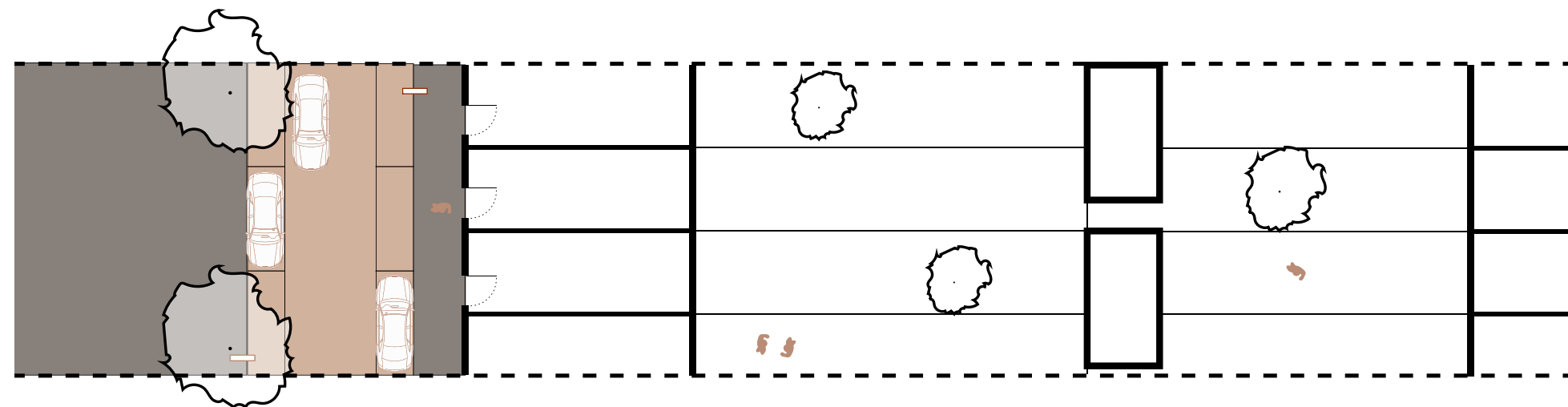
Current situation



Design principle

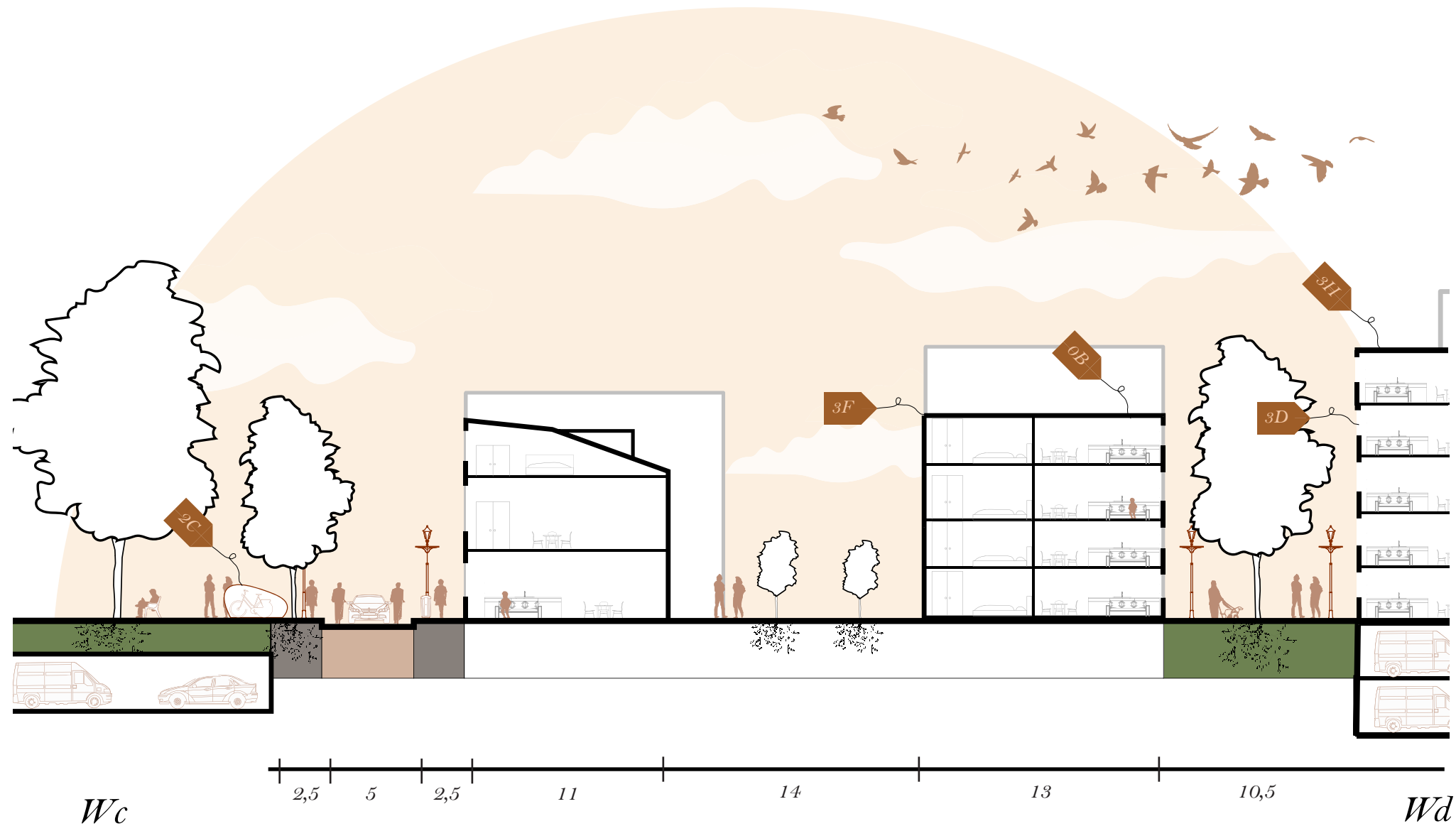


10m

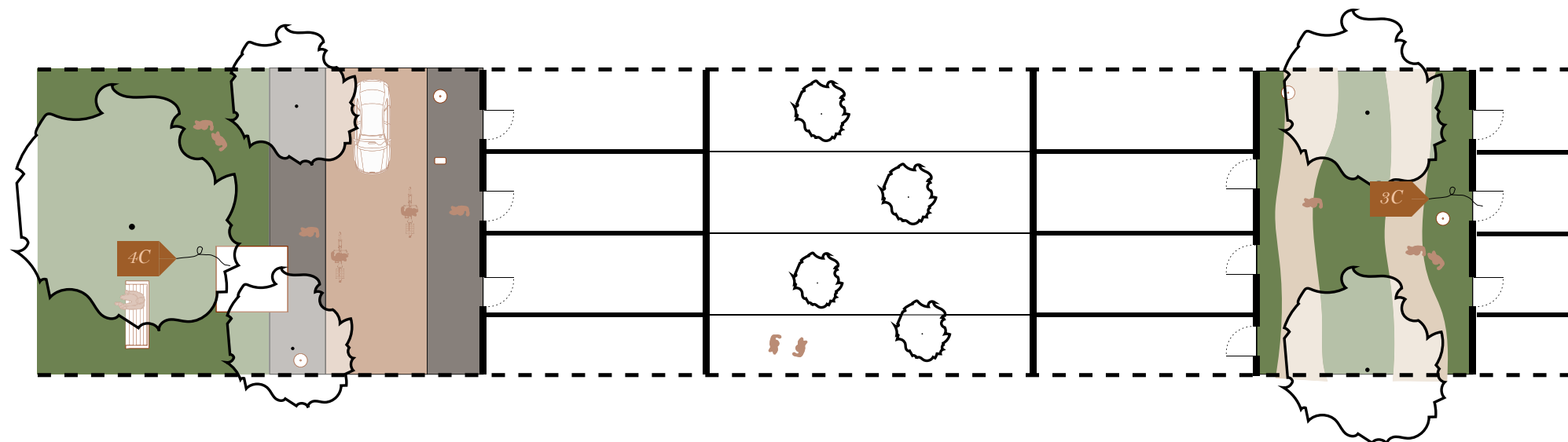
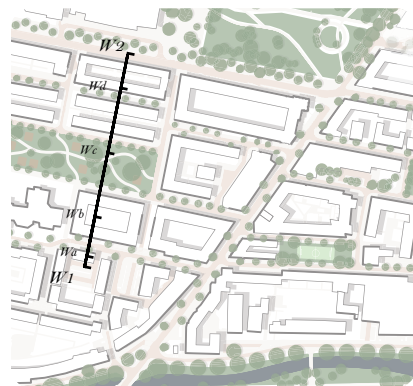


Frederikstraat

Proposed situation



Design principle



Hendrikstraat

Atmospheric impression



Hendrikstraat

Atmospheric impression



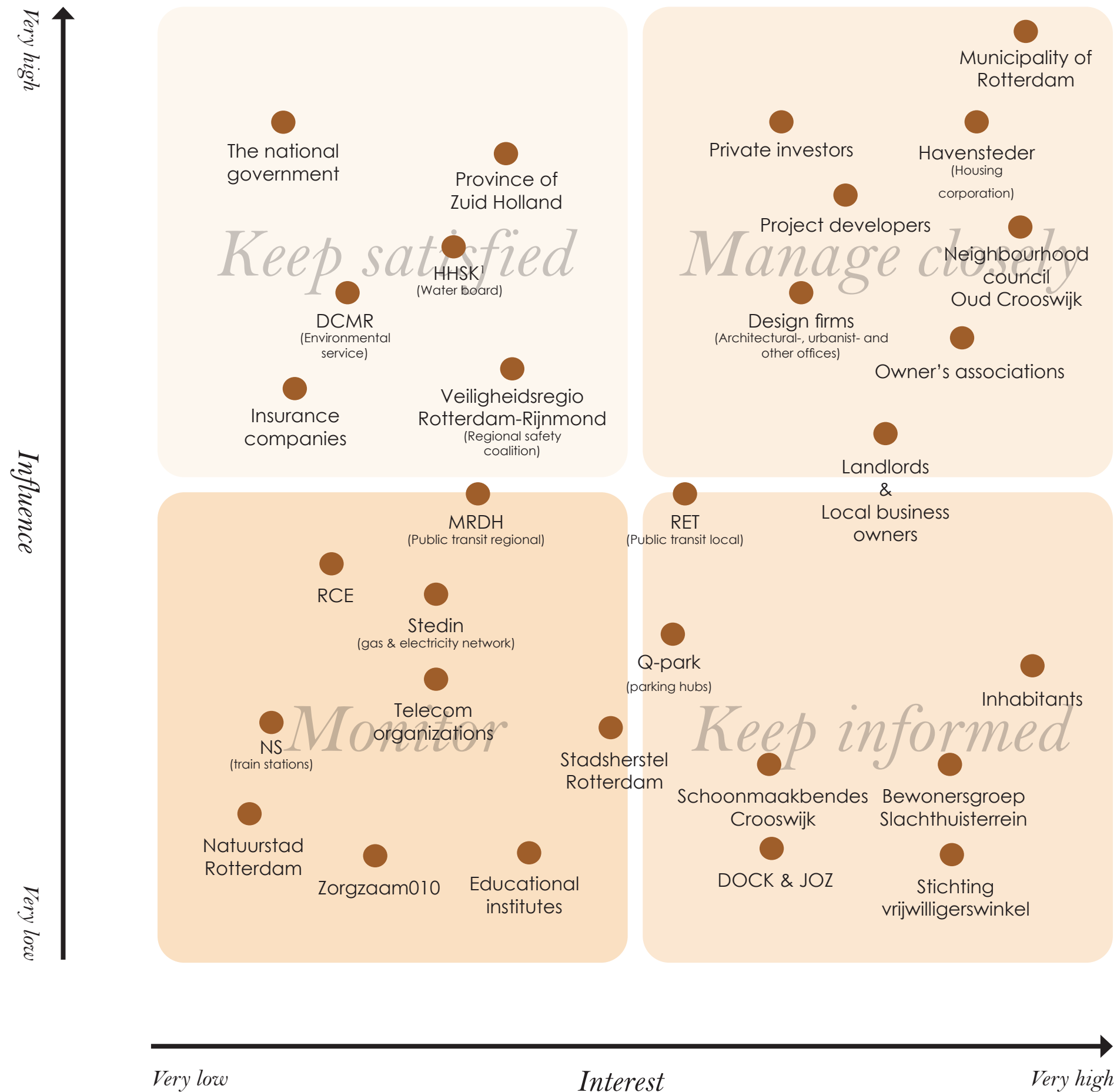
Hendrikstraat

Atmospheric impression



Stakeholder overview

Power - interest matrix



Development strategy

Of the ideal scenario

Phase 1

Revitalizing the heart



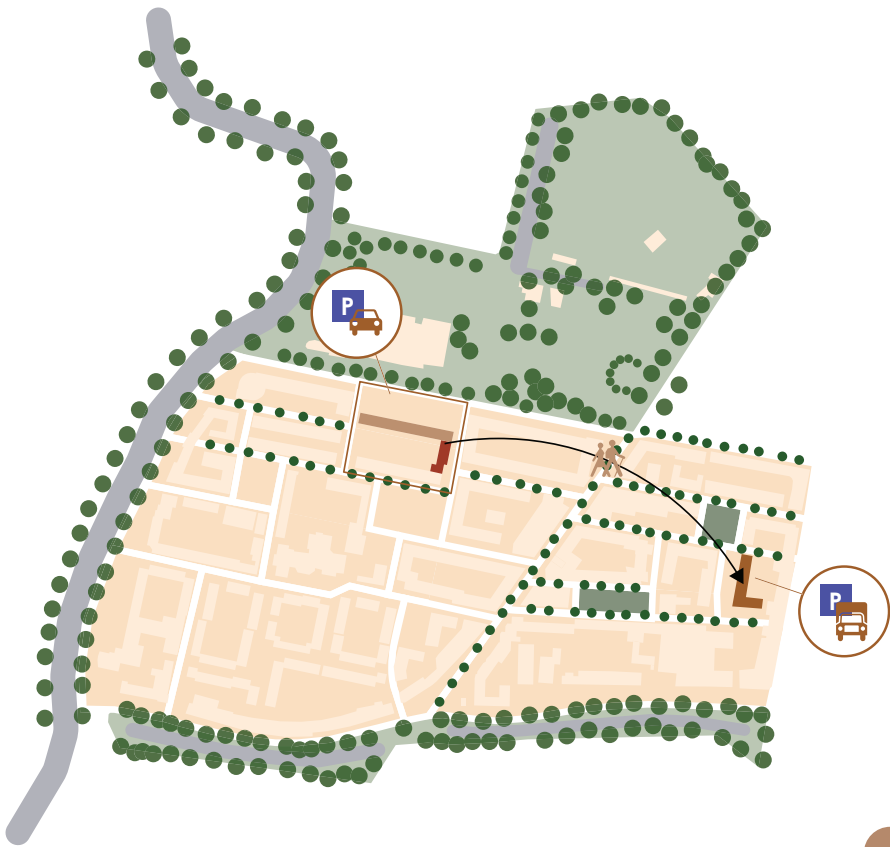
Phase 2

Enhancing recognition of the working-class character



Phase 3

Realization of first new working-class homes



Now

2030

2035

2040



Design principle

Development strategy

Of the ideal scenario

Phase 4

Creating a central communal area



Phase 5

Monitoring and anticipating on future needs



2045

2050



#

Design principle

*Risk-assessment
Matrix*

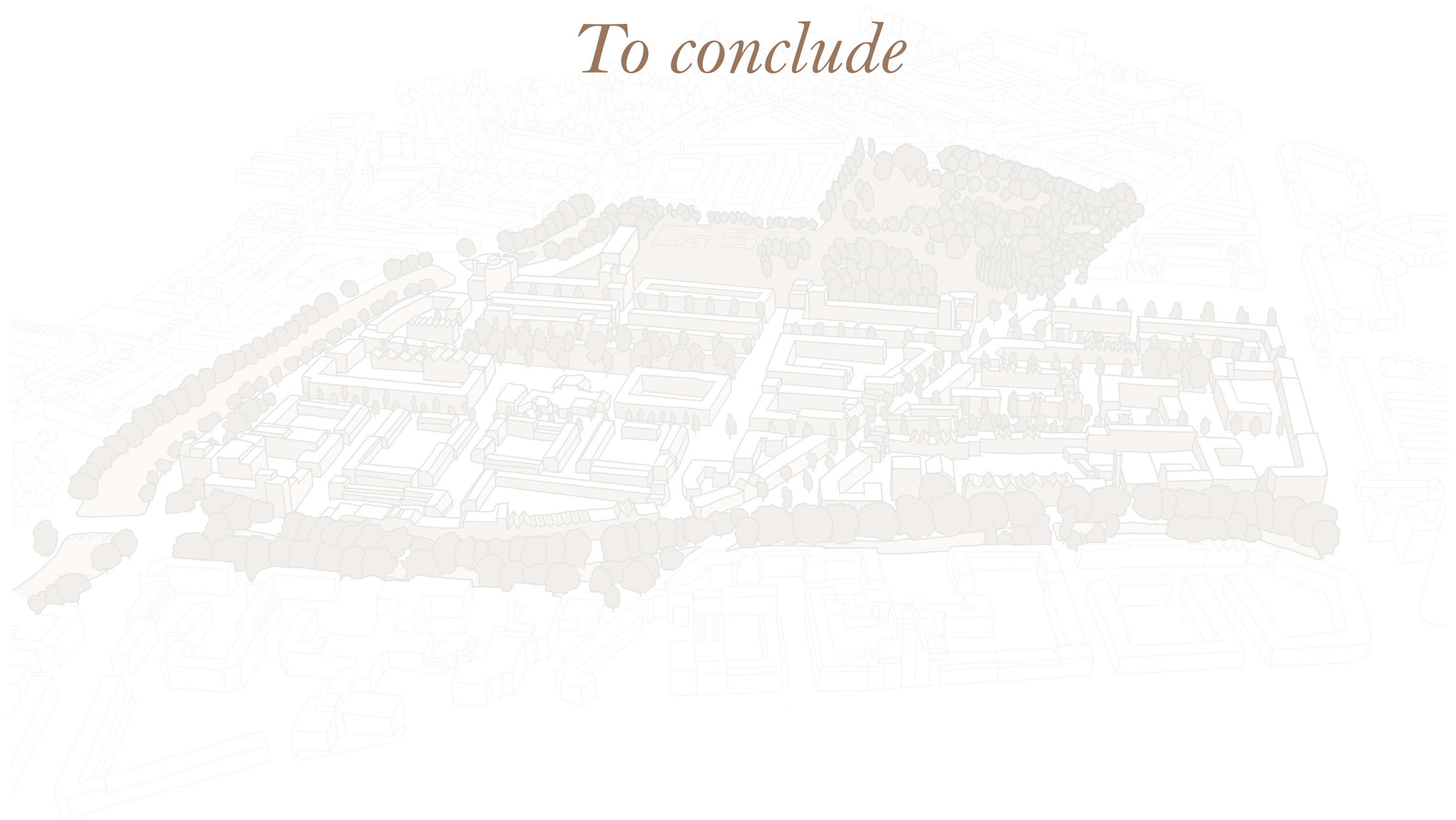


A final statement

10

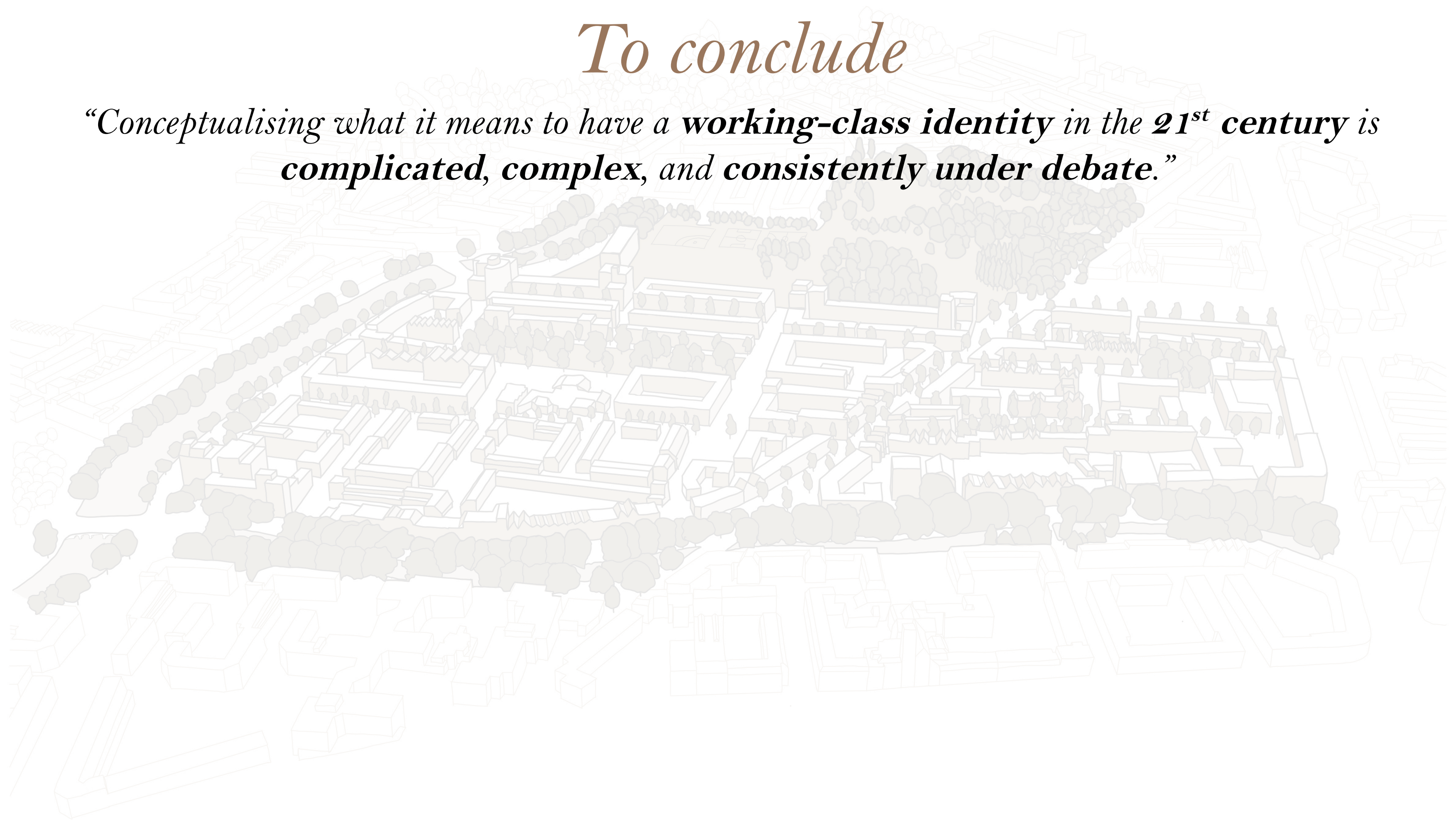


To conclude



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*“Therefore, keeping Oud Crooswijk **recognizable** as a working-class neighbourhood after urban renewal, **requires anticipation** on what this character will embody in the **future**”*

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*“To anticipate on this, this thesis provides a **transformation framework** that **reinterprets** the concept of a **working-class neighbourhood**”*

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*And while the findings are promising, this framework is only **limited** to Oud Crooswijk.*

To conclude

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*And while the findings are promising, this framework is only **limited** to Oud Crooswijk.*

*Therefore, to test its true **validity** and **transferrability**, I would like to **invite** the audience to **apply** this framework and let me know **your results!***

Thank you!



*Figure 2. Aerial view of Oud Crooswijk in 1967
(Rotterdam City archive)*

