Green Bond Amsterdam-Noord

Re-organize urban forest for future garden city

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Mentors:

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MSc Architecture, Urbanism and Building Sciences •
MSc track Landscape Architecture Graduation Studio Flowscapes 2019-2020
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1 Introduction 2 Theory 3 Site study

4 Design 5 Conclusion & Reflection

1 Introduction

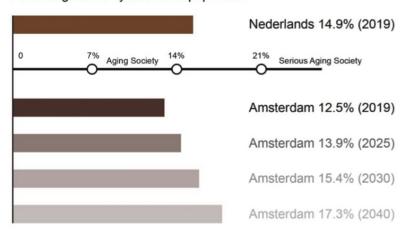
Context Problem Statement Methodology "Population ageing and urbanization are two global trends that together comprise major forces shaping the 21st century."

----World Health Organization, 2007

Introduction

Context

Percentage of 65+ years old in population

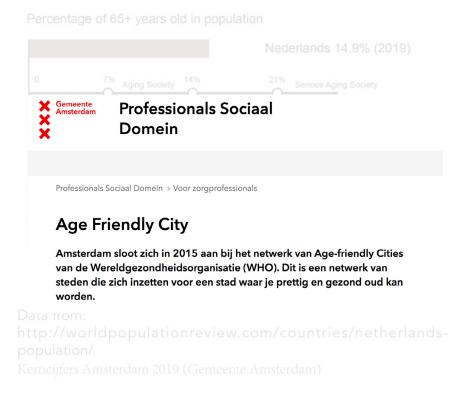


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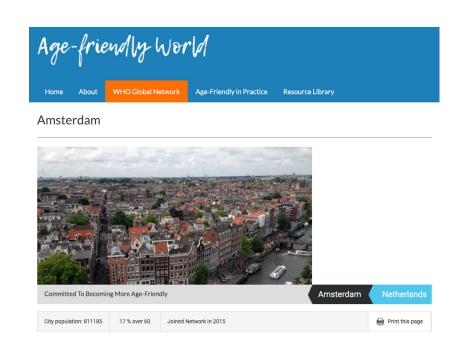
http://worldpopulation review.com/countries/netherlands-population/

Kerncijfers Amsterdam 2019 (Gemeente Amsterdam)

Amsterdam, too, is facing aged population.

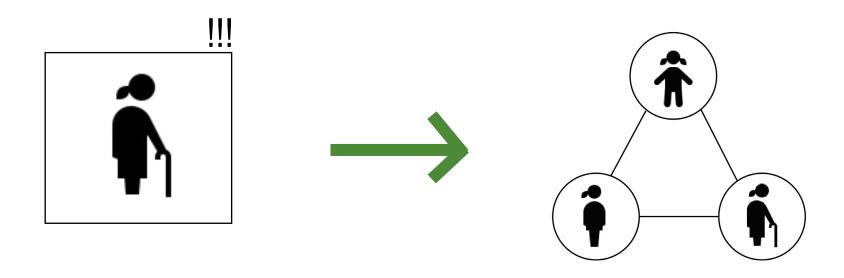


Amsterdam, too, is facing aged population.
Building an age-friendly city becomes a urgent misson.

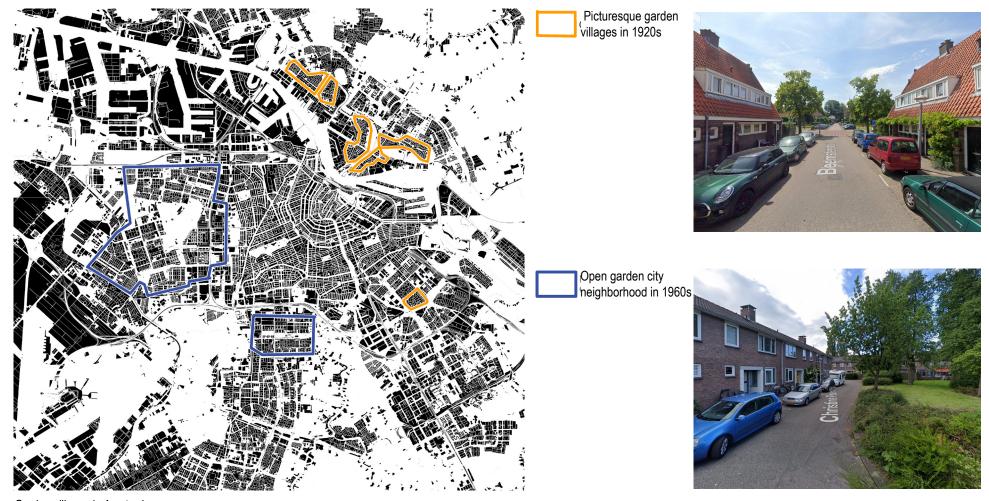


souce: Gemeente Amsterdam

https://extranet.who.int/agefriendlyworld/network/amsterdam/



From age-friendly city to *All-age friendly city*: preventive, healthy, and supportive city for all.

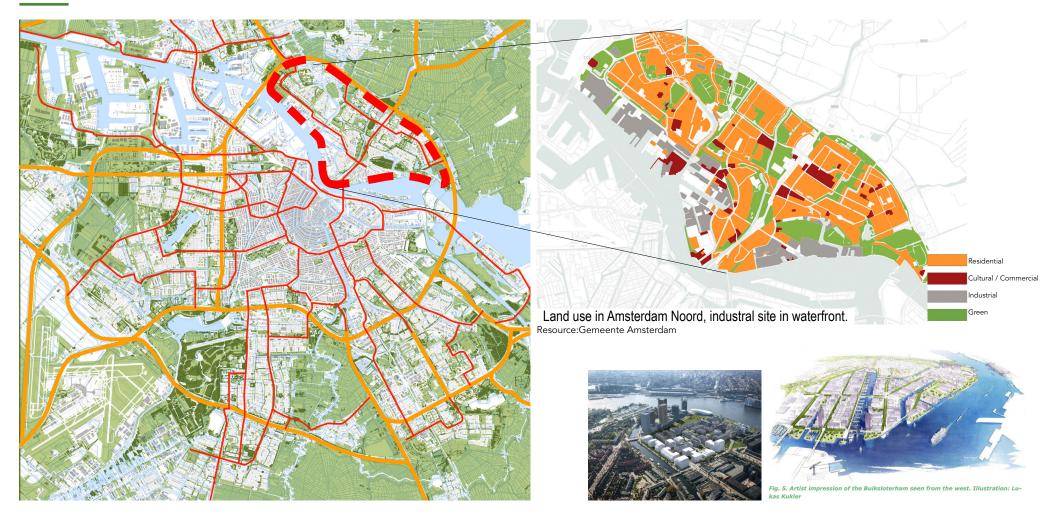


Garden villages in Amsterdam.

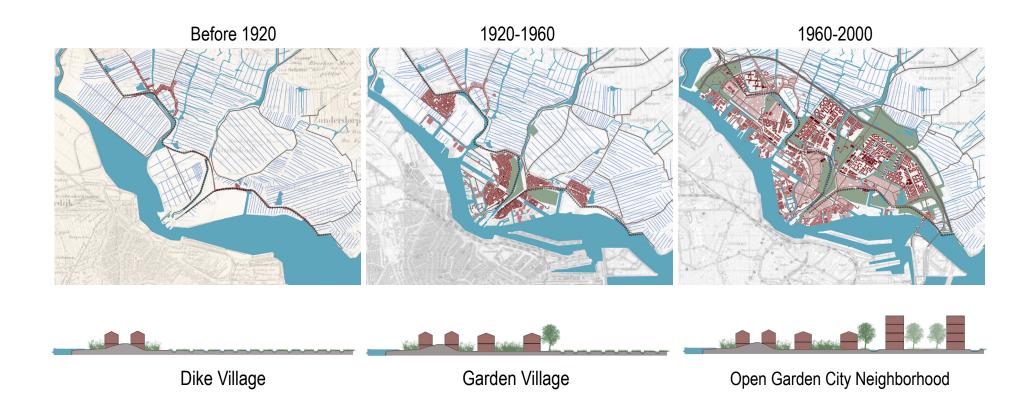
Amsterdam has a Garden City tradition that explores healthy urbanization(1920s and 1960s).

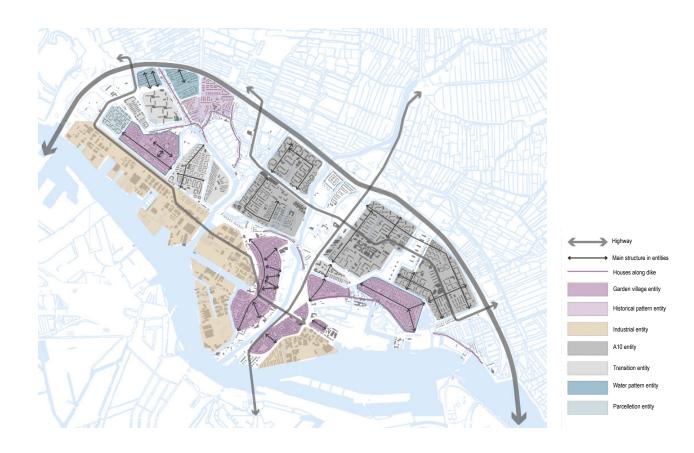
Introduction

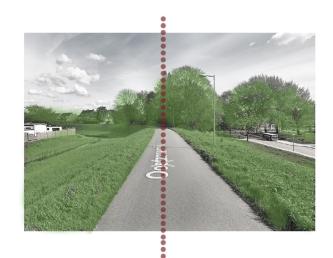
Context



Amsterdam Noord, a garden city "green getaway" facing high density transformation and crisis in its rural identity.



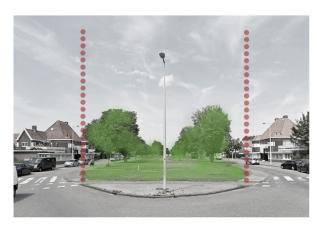




Topos feature, dike, becomes barrier for connectivity

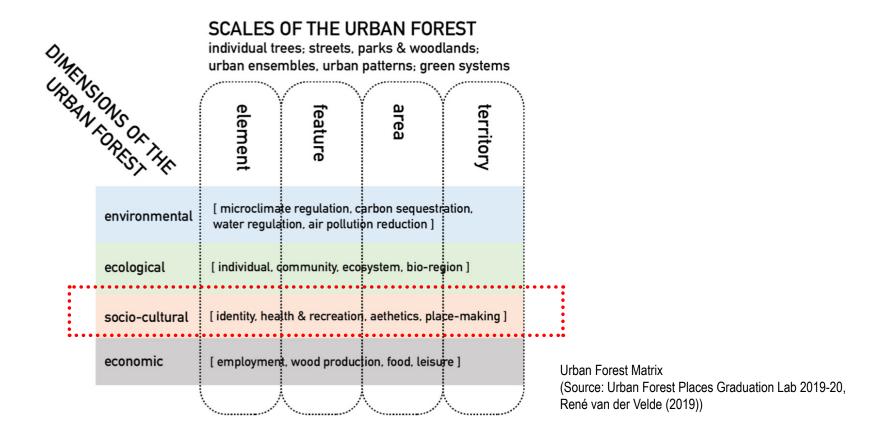


Dike is fragmented as traffic infrastructure



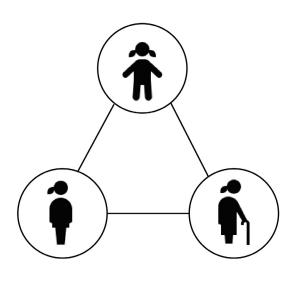
Public space in Garden villages lacking relation to the surrounding landscape

With the tradition garden city ideas, green spaces in Amsterdam Noord were built as buffers or enclosed entities from the industrial nuisance, this results in disconnection and lost in its green identity.



In Urban Forest lab, urban forest, defined as urban green spaces with trees as its backbone, are considered as an important resource of the city.





The challenge from the expanding high-dense city that threatens its rural identity, and the requirement to build an all-age-friendly city.

Urban forest, could be the key element the renovate Amsterdam Noord.

This leads to the research objectives and research questions:

Research Objectives

To explore design principles for re-organizing urban forest to promote the urban identity and all-age-friendly network for Amsterdam Noord.

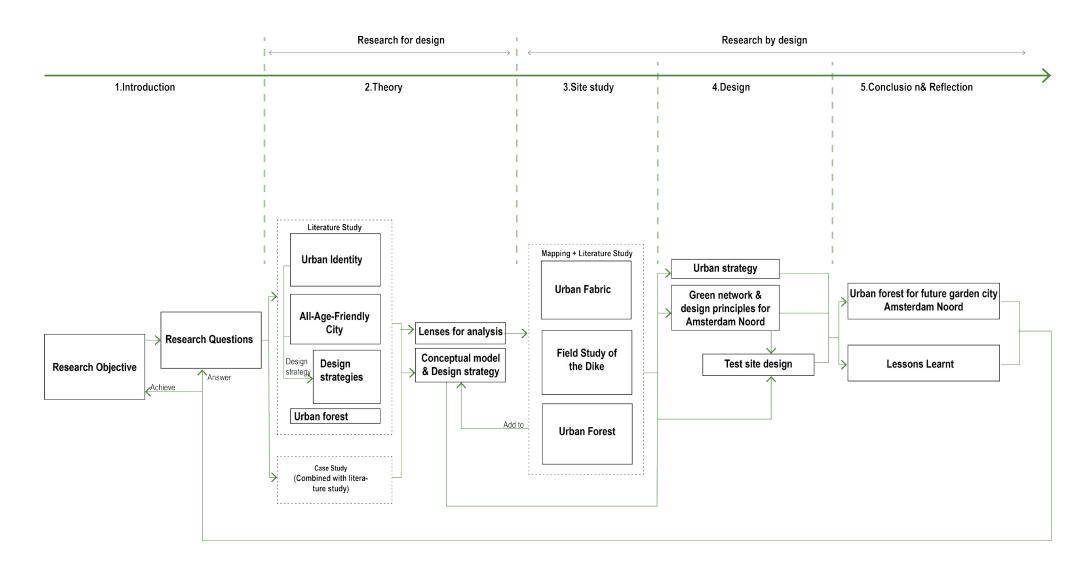
To explore landscape design principles for place making, to improve the material quality that would develop the identity and provide all-age-friendly value.

Main Research Question

How can urban forest be used to develop a future sustainable garden city in dialogue with the green urban identity and Garden City tradition of Amsterdam Noord, and to promote an age-friendly city? How can this prototype for Amsterdam Noord be used as a case study to provide universal value?

Sub-question

- 1. What is the urban forest tradition in Amsterdam Noord?
- 2. What element represents the identity of Amsterdam Noord? What potential do the representative elements have to be included in the urban forest?
- 3. What defines an all-age-friendly city for Amsterdam Noord? How can urban forest contributes to it?



2 Theory Literture Study Theoretical Framework

Theory Literature study

Urban Identity

Design goal to enhance urban identity Design strategy: Landscape narratives All Age-friendly City

Design goal to enhance age-friendly Design strategy: Supportive landscape **Urban Forest**

Urban Forest Matrix

Urban Identity

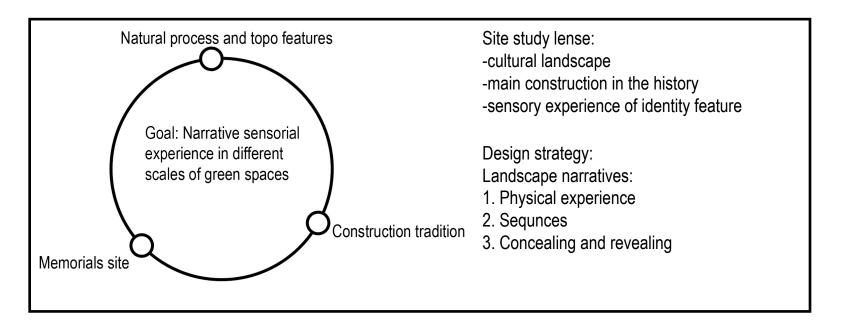
Design goal to enhance urban identity Design strategy: Landscape narratives

All Age-friendly City

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Urban Forest

Urban Forest Matrix



Urban Identity

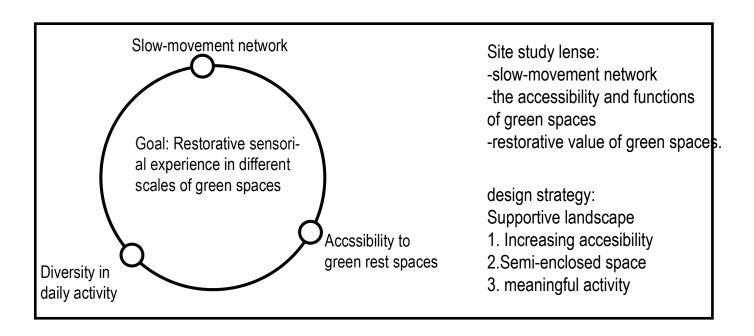
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Theory Literature study

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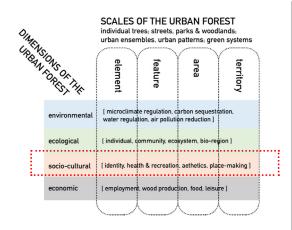
Design goal to enhance urban identity Design strategy: Landscape narratives

All Age-friendly city

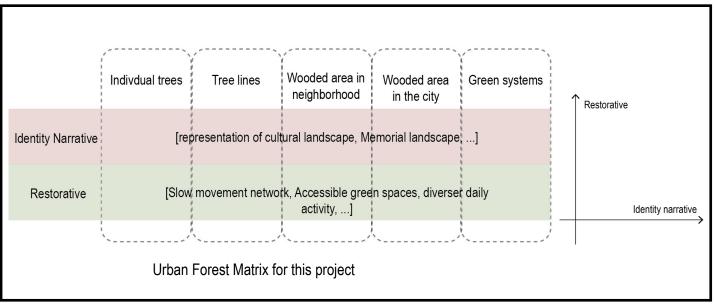
Design goal to enhance age-friendly Design strategy: Supportive landscape

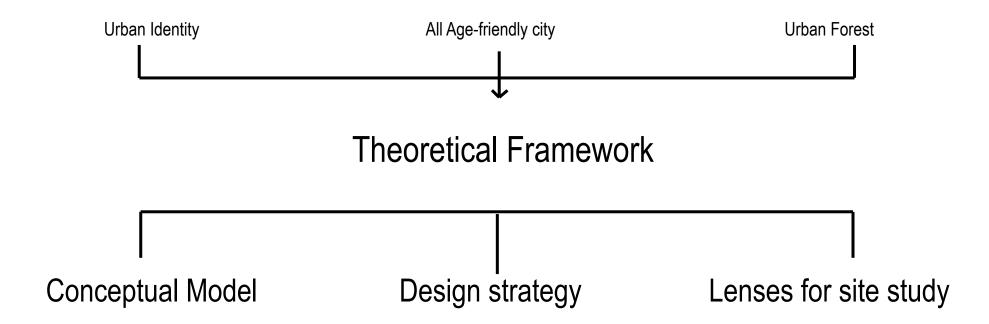
Urban Forest

Urban Forest Matrix



Urban Forest Matrix (Source: Urban Forest Places Graduation Lab 2019-20,René van der Velde (2019))

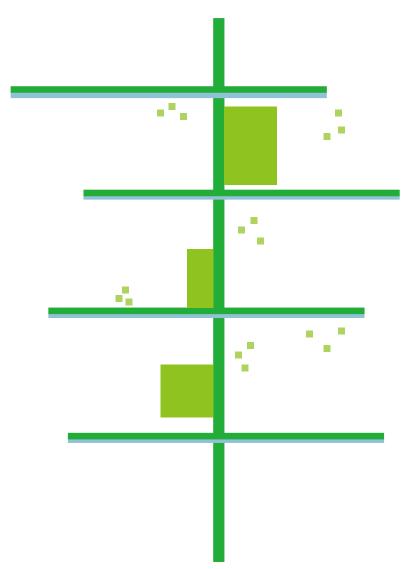




Conceptual model:

Green network in the city

- (Wooded) lines for slow-movement network
- (Wooded) nodes for identity narrative and restorative experience



Theory

Theoretical Framework

Design Strategy: Green network in the city

City network scale:

- A slow-movement network with accessibility to green spaces
- Connection of identity representative elements that can create sequnces for identity narratives and restirative activities







Green spaces scale:

Lines:



- Non-obstable design: smooth surface, at least 1.2m wide for pathways, use ramp instead of steps.









- Concealation of busy traffic and high-rise building
- Revealation of polder landscape and garden villages
- Sensory experience of being on a dike/waterside
- Sensory experience of seasonal change with plants

Nodes:



- Semi-enclosed space for stay and rest
- Activity to encourage intergenerational inclusion

Theory

Theoretical Framework

Lenses for site study:

To investigate:

- -cultural landscape
- -main construction in the history
- -sensory experience of identity feature
- -slow-movement network
- -the accessibility and functions of green spaces
- -restorative value of green spaces.

Urban fabric

- -cultural landscape
- -main construction in the history
- -sensory experience of identity feature
- -slow-movement network
- -the accessibility and functions of green spaces
- -restorative value of green spaces.

Field study of the dike

- -cultural landscape
- -main construction in the history
- -sensory experience of identity feature
- -slow-movement network
- -the accessibility and functions of green spaces
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Urban forest

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3 Site study

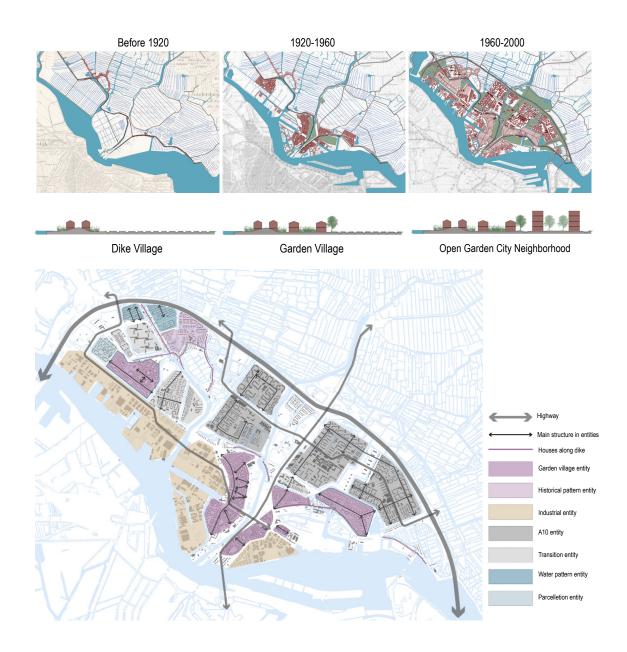
Site Analysis
Urban Fabric
Field Study of the Dike
Urban Forest
Potential Exploration

Urban Fabric Field Study of the Dike Urban Forest

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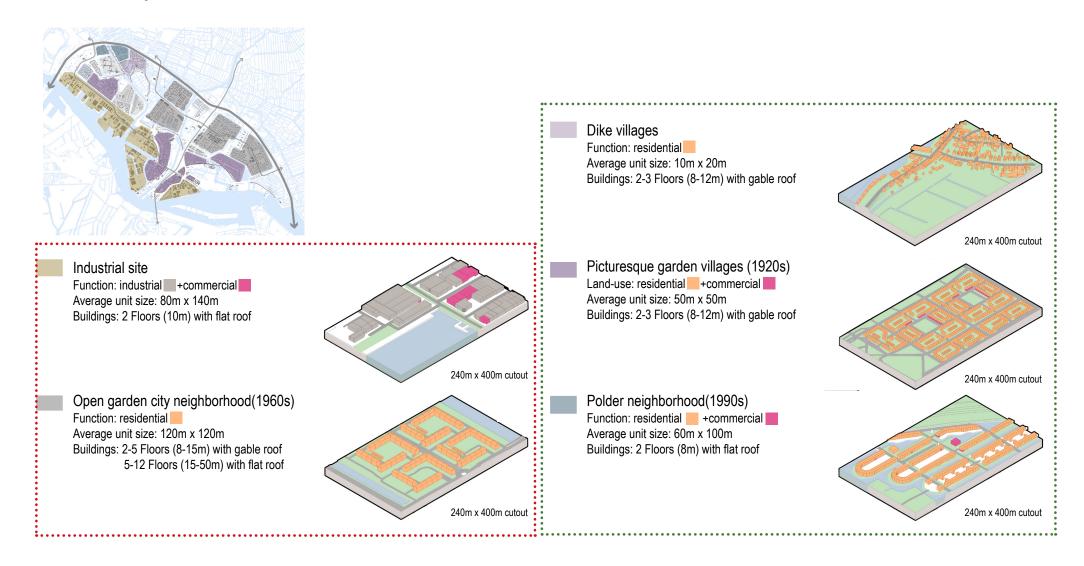
Site Analysis_Urban Fabric

History and entities



Site Analysis_Urban Fabric

Entities and buildings

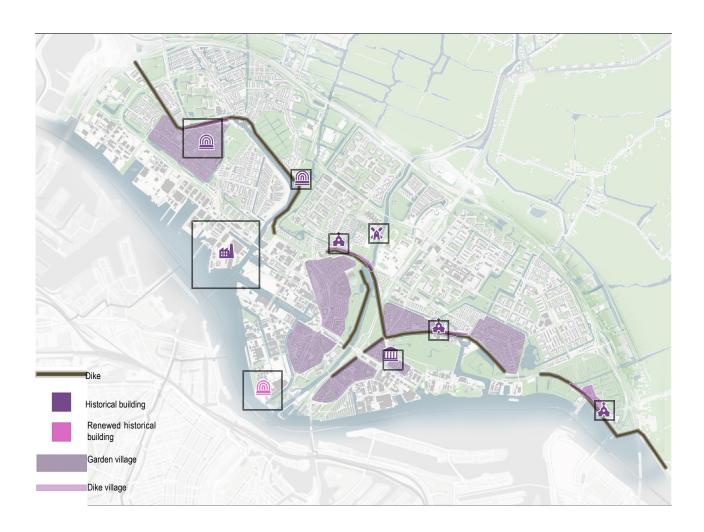


Site Analysis_Urban Fabric

Identity and historical elements

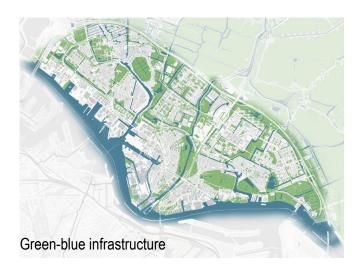
- The dike
- Dike villages
- Garden villages
- Historical buildings

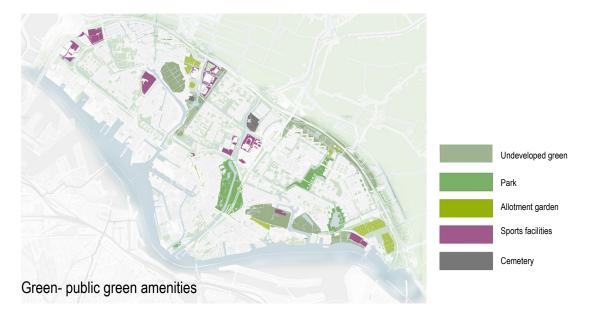
Dike as a connecting element.

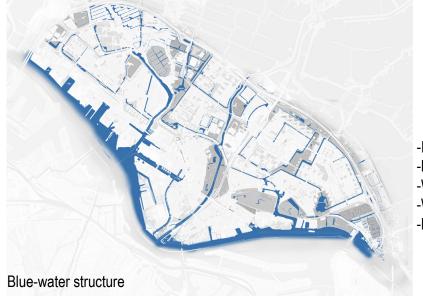


Site Analysis_Urban Fabric

Green and Blue Infrastructure

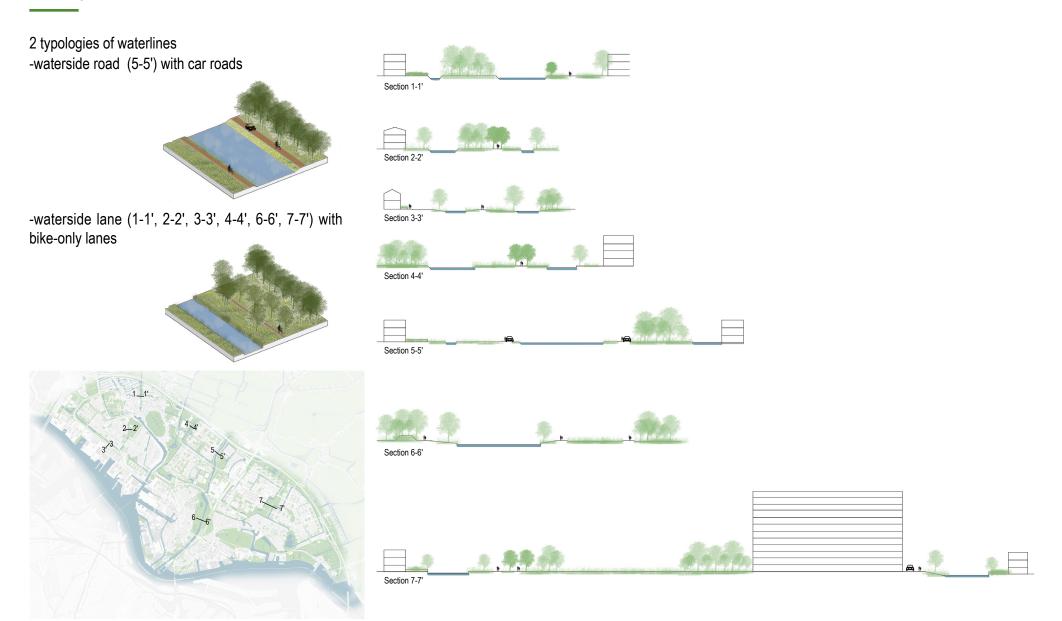






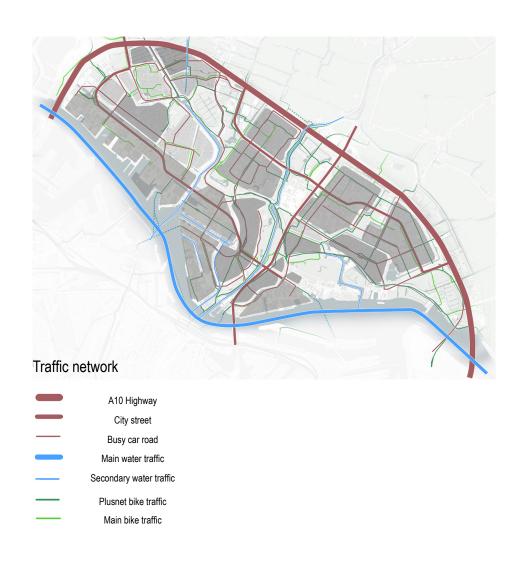
- -Noordhollandcanal -Waterways
- -Water body around entities
- -Polders

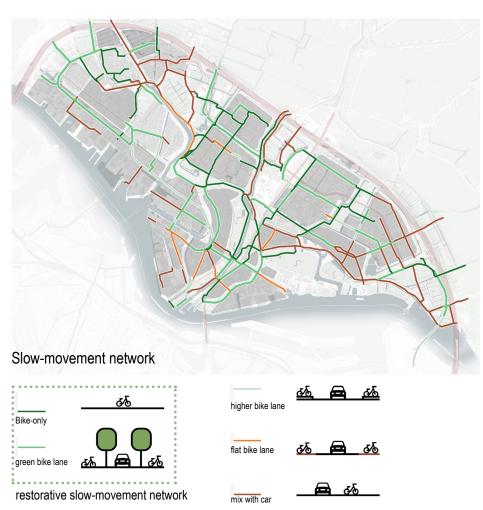
Site Analysis_Urban Fabric

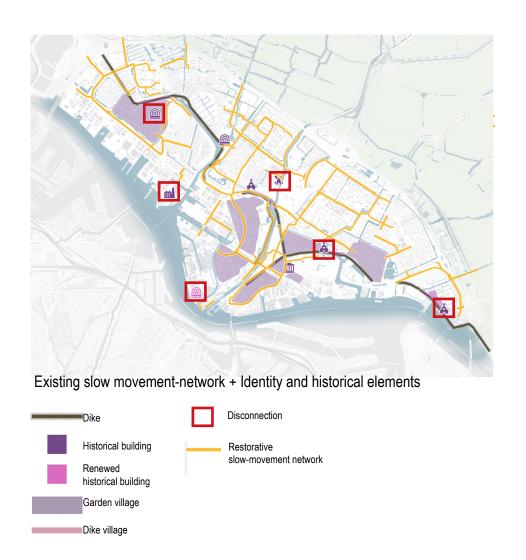


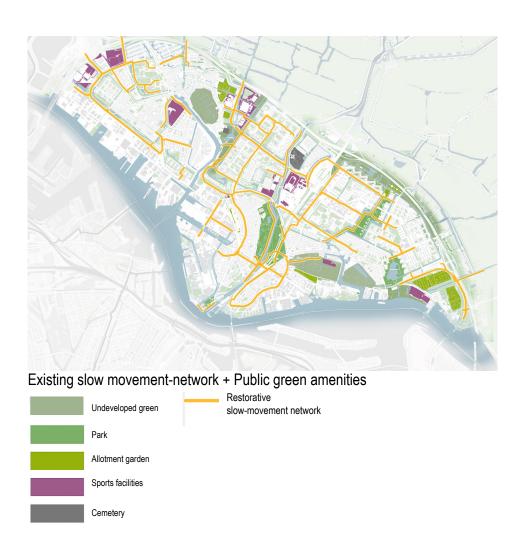
Site Analysis_Urban Fabric

Connectivity









Site Analysis_Urban Fabric

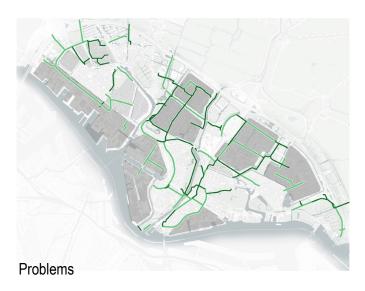
Conclusion of Urban Fabric

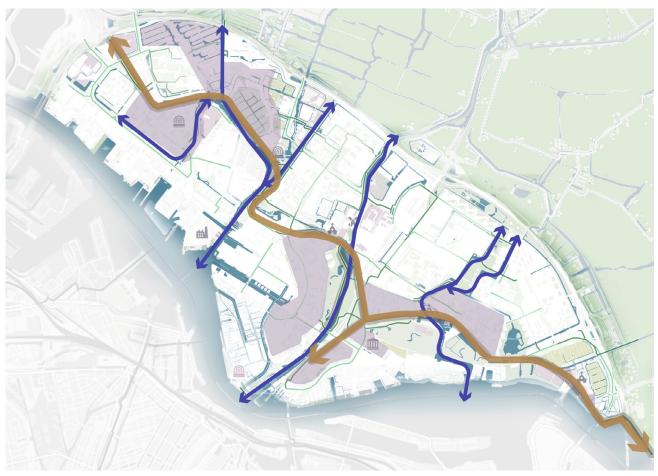
Problems:

- 1. Disconnected cross-entity slow movement network
- 2. Open garden city neighborhood and indutrail entities need renovation

Potential values:

- 1. Dikes and waterlines have the potential as restorative connecting elements
- 2. Dike villages, picturesque garden villages, polder neighborhood still preserve the dike city identity.



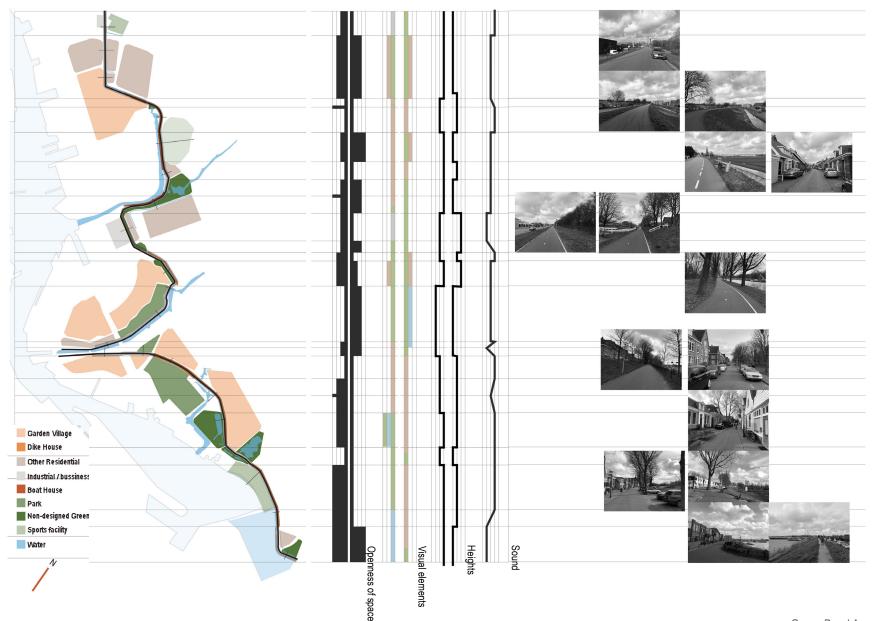


Potential value

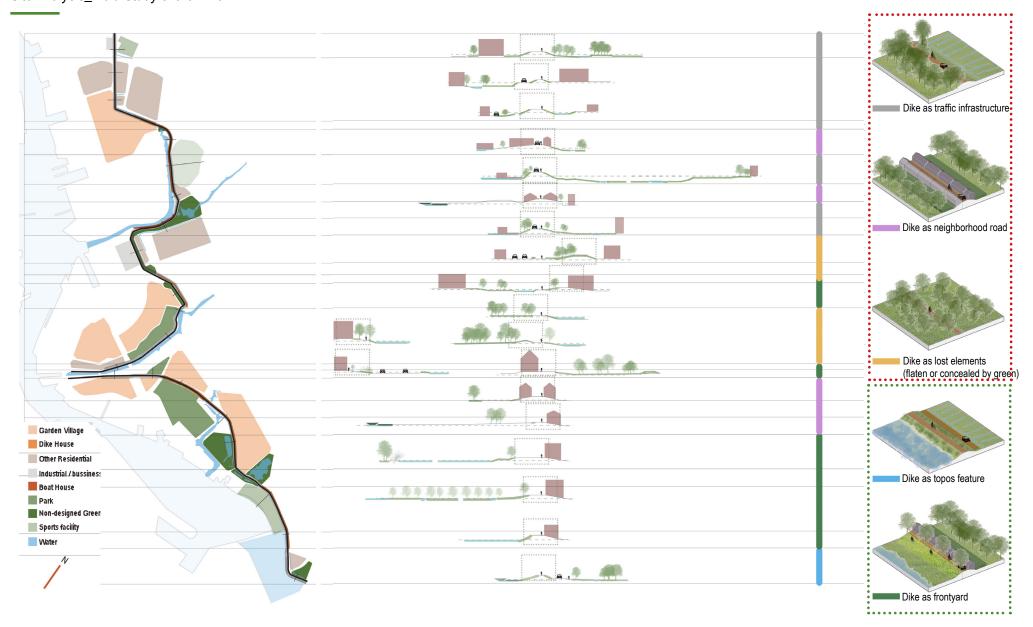
Urban Fabric Field Study of the Dike Urban Forest

Site Study

Site Analysis_Field Study of the Dike



Site Study
Site Analysis_Field Study of the Dike



Site Analysis_Field Study of the Dike

Dike and identity elements

Dike Historical building Renewed historical building Garden village Dike village

Historical buildings



1. Concertgemaal
Built in: 19?? (1984)
Original Function: Power station
New Function: Concert hall, workplace



view from the dike



2. Buiksloterkerk
Built in: 1609
Original Function: Church
New Function: Church, monument,
concert hall







3. Augustinuskerk Built in: 1888 Original Function: Church New Function: Church (locked)







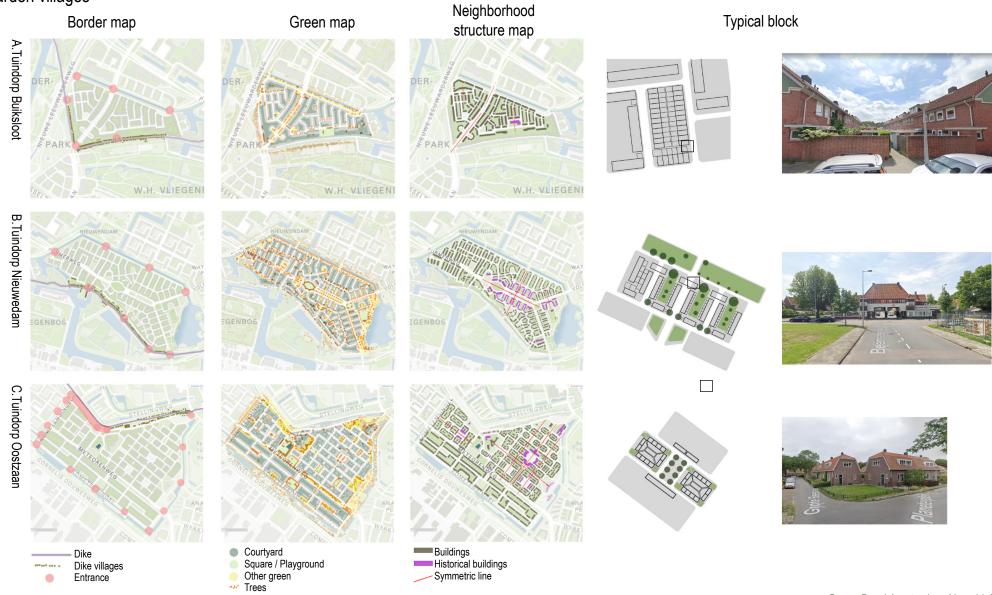
4. Schellingwouderkerk
Built in: 1866
Original Function: Church
New Function: Church, Dining place





Site Analysis_Field Study of the Dike

Garden villages



Site Analysis_Field Study of the Dike

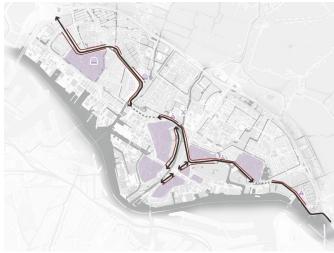
Conclusion of Field Study of the Dike

Problems:

- 1. Lost sensorial experience of dike.
- 2. Important historical elements are concealed and disconnected in lanscape.

Potential values:

- 1. The dike itself provides rich sensorial experience.
- 2.New green spaces can be made to link historical elements to the dike.

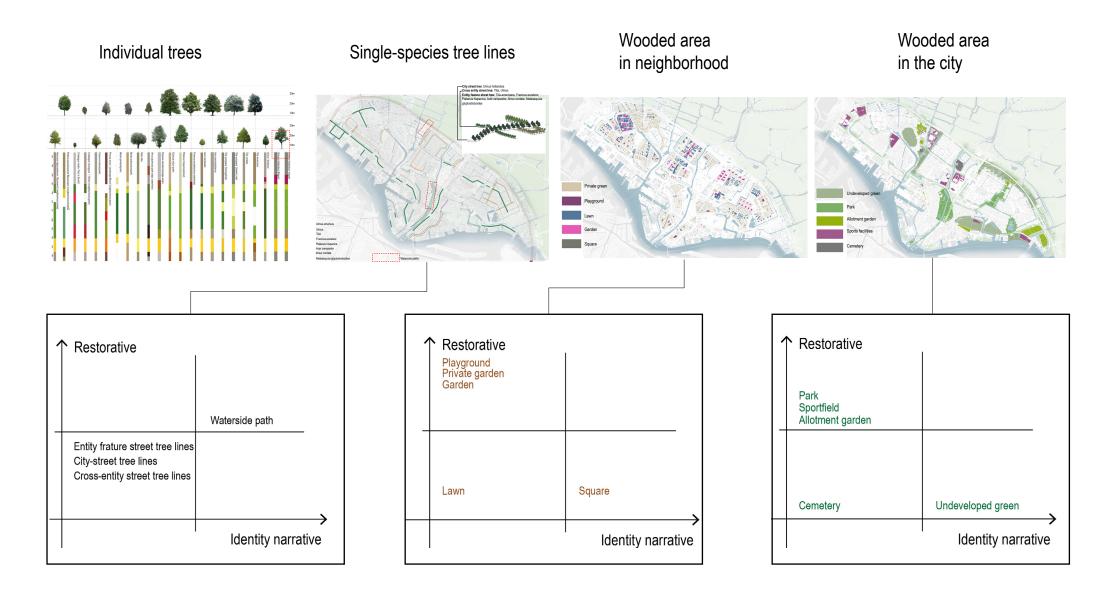


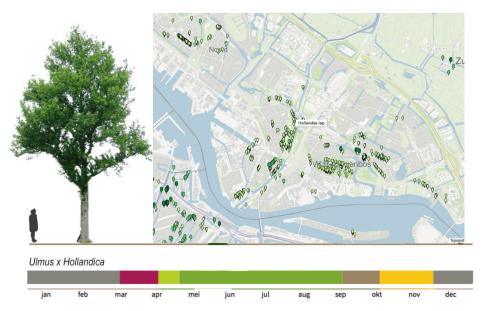




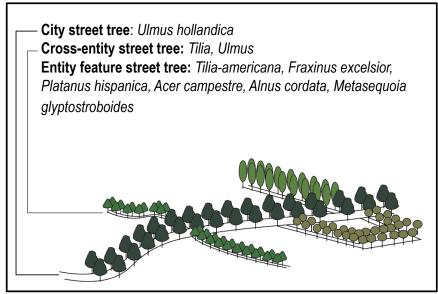
Potential value

Urban Fabric Field Study of the Dike Urban Forest





Monument trees along the old dike structure: *Ulmus hollandica* (Source: Het Amsterdamse Bomenboek, Gemeente Amsterdam)



Species language in street tree lines.

Site Analysis_Urban Forest

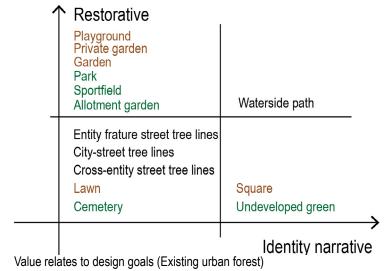
Conclusion of Urban Forest

Problem:

The existing tree features are mostly function-oriented. Identity elements such as dike is seldomly recognized in the existing tree features and areas.

Potential values:

- 1. Ulmus hollandica is recognized as a simbol tree for dike identity
- 2. Tree lines and green areas in the city already provide high restorative value.



House City Neighborhood Landscape **IJmeer** Preserved nature Sports field Playground Green facilities Polder landscape Neighborhood street City street Waterfront green A10 highway Green system of Amsterdam Noord

Probelms and potential values

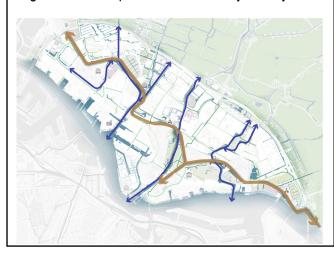
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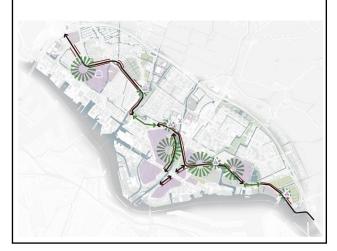
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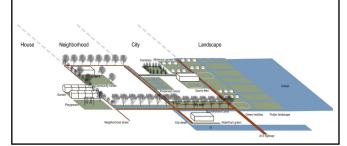
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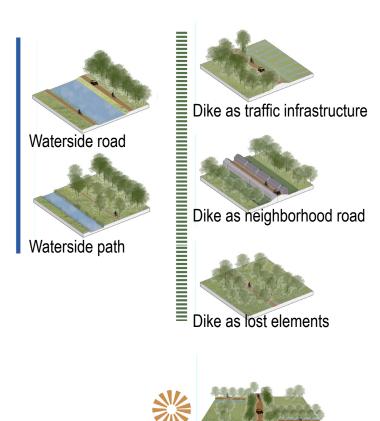
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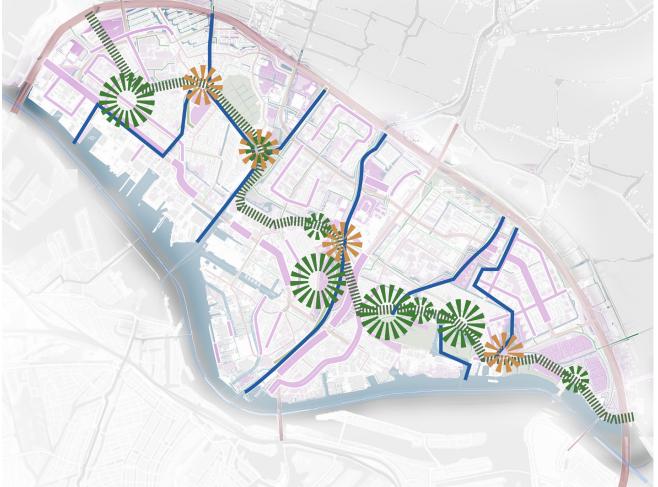
Exploration

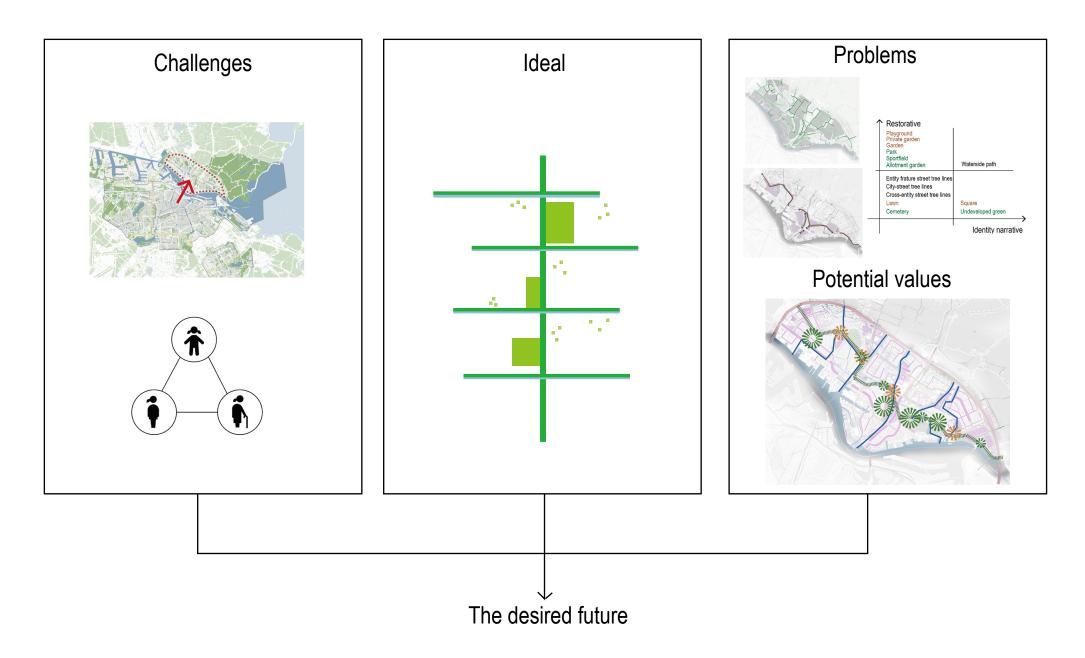
Potenrial values for design:



Dike + Crossing

Dike + Historical elements





L : Urban Strategy M: Green Bond S: Place Making

L: Urban Strategy

Proposed urban structure Urban Design

M: Green Bond

Proposed Urban Forest Network Landscape design principles

S: Place Making

Test Sites Design

L: Urban Strategy

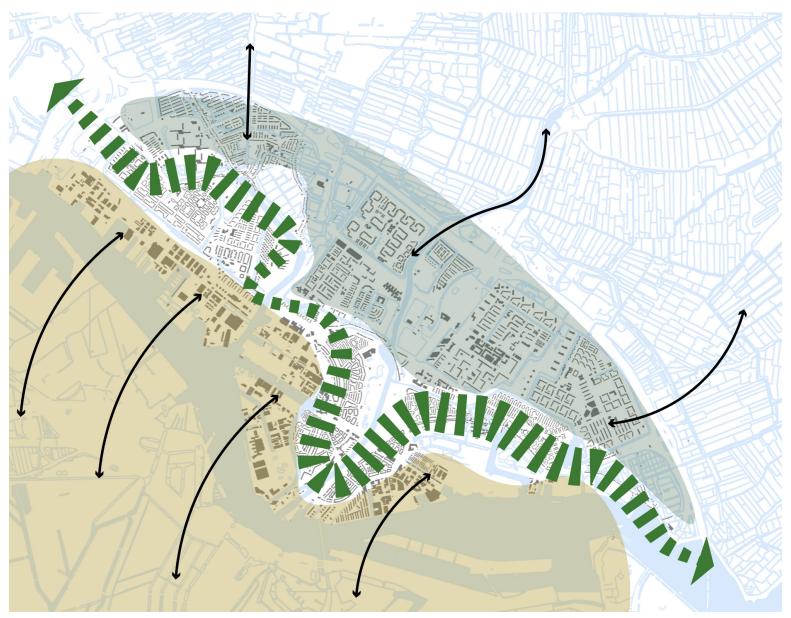
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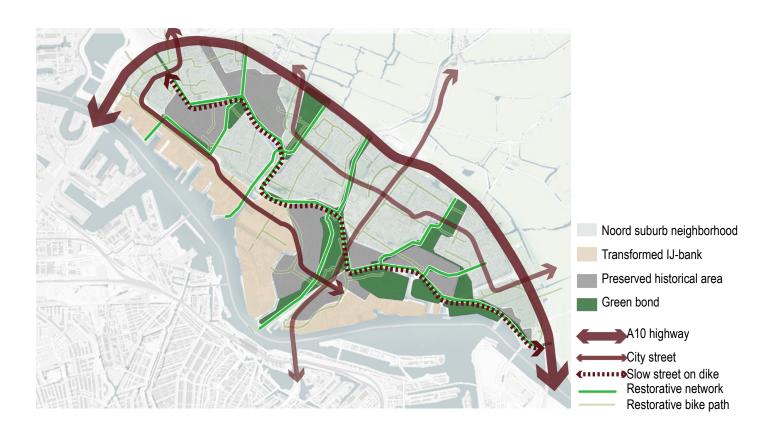
Development zone



Major car traffic



Slow-movement network



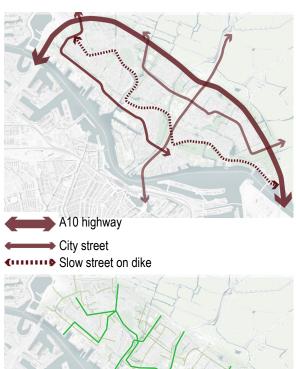
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Green bond Amsterdam-Noord

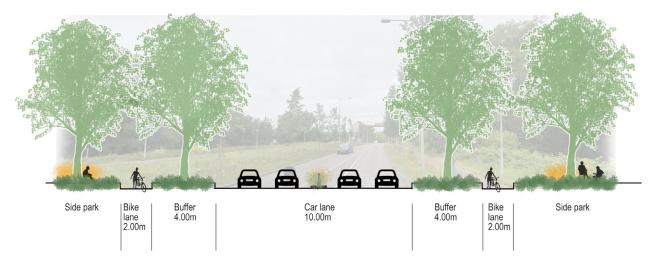
240m x 400m cutout

L: Urban Strategy

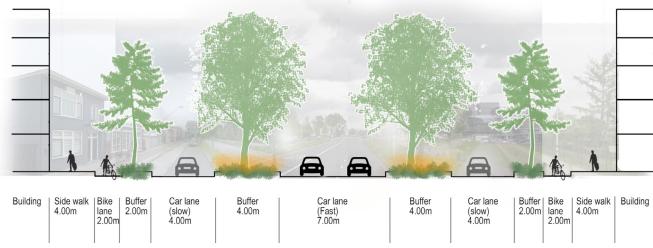


Restorative network

Restorative bike path



Proposed street in Noord suburb neighborhood (low density)



Proposed street in transformed IJ bank (high density)

L: Urban Strategy

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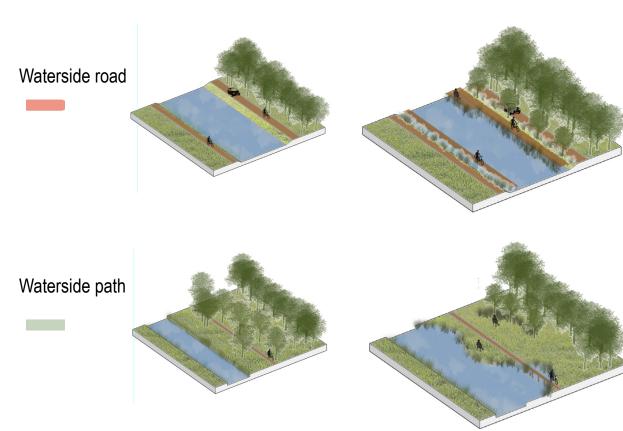


M: Green Bond



Waterside lines

- -Non-obstable design: smooth surface, at least 1.2m wide for pathways, use ramp instead of steps.
- Concealation of busy traffic and high-rise building
- Sensory experience of being on a waterside
- Sensory experience of seasonal change with plants
- Semi-enclosed space for stay and rest



M: Green Bond



- steps.
- plants



M: Green Bond



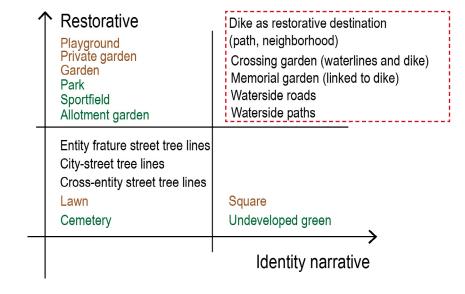
Dike nodes:

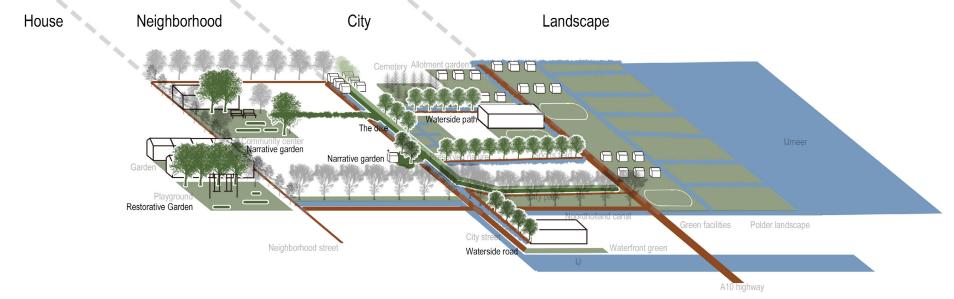
- Non-obstable design: smooth surface, at least 1.2m wide for pathways, use ramp instead of steps.
- Revealation of the dike
- Sensory experience of being on a dike
- Sensory experience of seasonal change with plants
- Semi-enclosed space for stay and rest

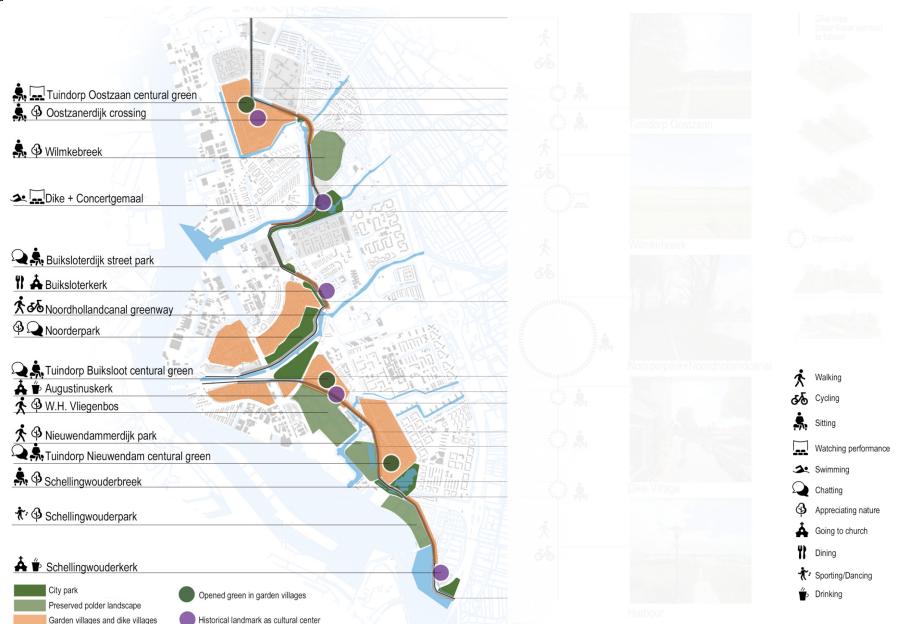


In the proposed urban forest system

- -The dike and waterside as central feature lines that connects green nodes
- -The dike becomes the spine of this network









L: Urban Strategy

Proposed urban structure Urban Design

M: Green Bond

Proposed Urban Forest Network Landscape design principles

S: Place Making

Test Sites Design



Test site 1: Dike + Concertgemaal

Test site 2: Dike + Tuindorp Oostzaan

S: Place Making

Test site 1: Dike + Concertgemaal





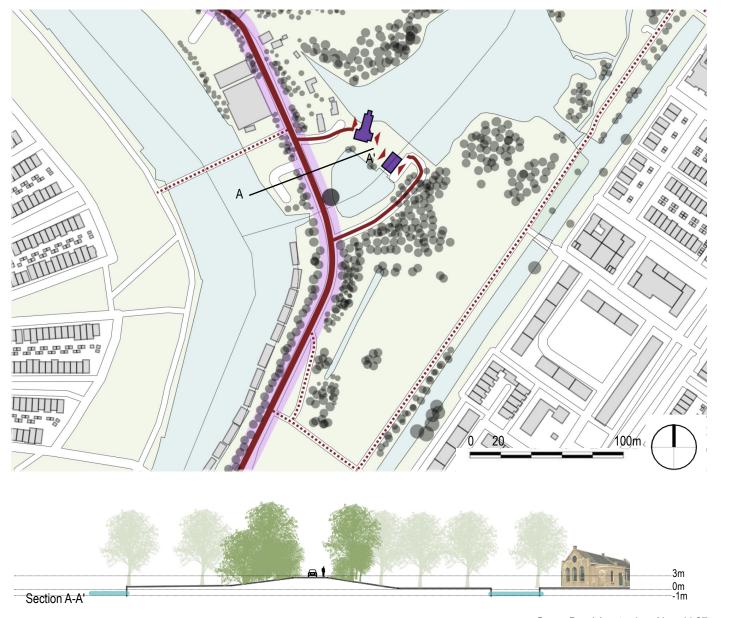


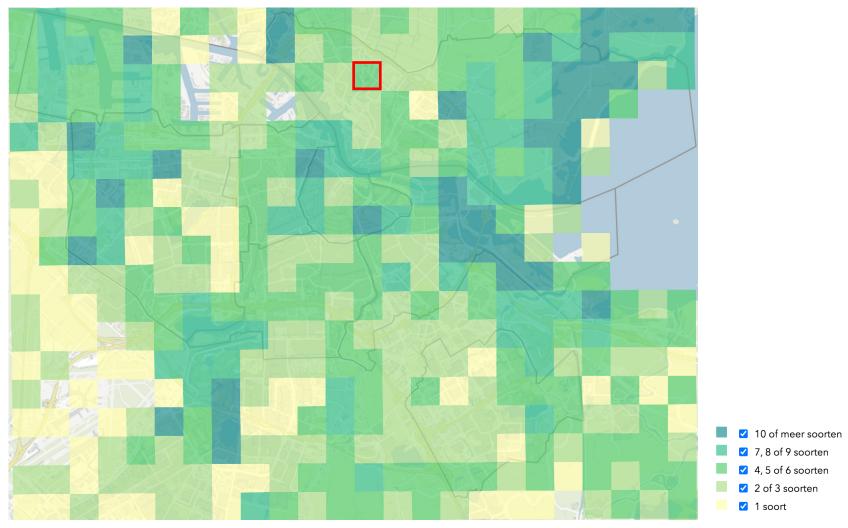
Car road
Pedestrain/bike path
The dike

Entrance to building

Historical building

Existing tree





Test site 1 is an area of higher bio-diversity. Source: Protected Flora and Fauna, Gemeente Amsterdam

S: Place Making

Diagnosis:

- 1. Dike as traffic infrastructure: Car traffic is not separate from the bike lane; undeveloped water front area(hidden by trees)
- 2. Disconnection in landscape to Concertgemaa I(hidden by trees)
- 3. Waterside path missing the node
- 4. Bio-diversity needs to be protected

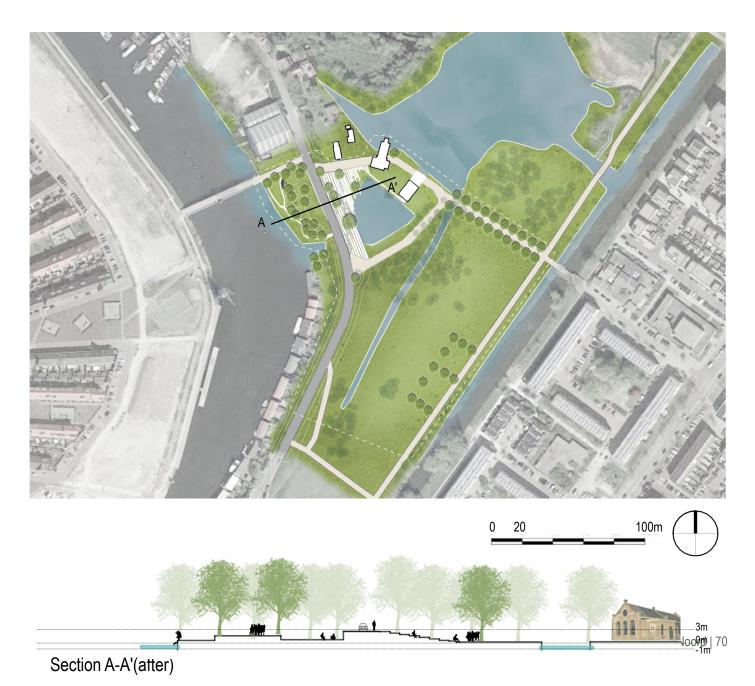
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Design interventions:

- 1. Car traffic is limited by speed <30 km/h
 - Waterfront urban forest
- 2. Outdoor theater space connecting dike to Concertgemaal
- 3. New connection of lines, with tree lines as guidance
- Along the waterside path, garden, which uses the size of garden city community green spaces, is made as resting spot.
- 4. Original plantations around the polder is kept to keep the original eco system and biodiversity



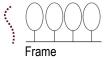
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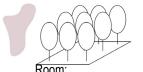
Plantation scheme



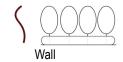


View line from the dike through the waterfront forest





activity space underneath trees





Block: inaccessible forest

Circulation and main program



- 1 The dike 🕏 🗳 2 Sunken space 🙇 🗳 📿 3 Slope terrace
- 4 Waterfront terrace
- 5 Ourdoor theater 🛕 🗘 🛄 🖐
- 6 Waterside garden 🛕 🚱 🔾



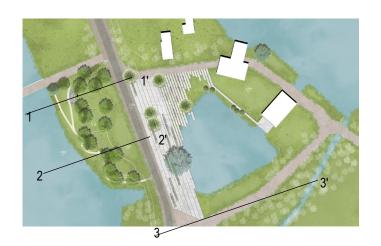
S: Place Making

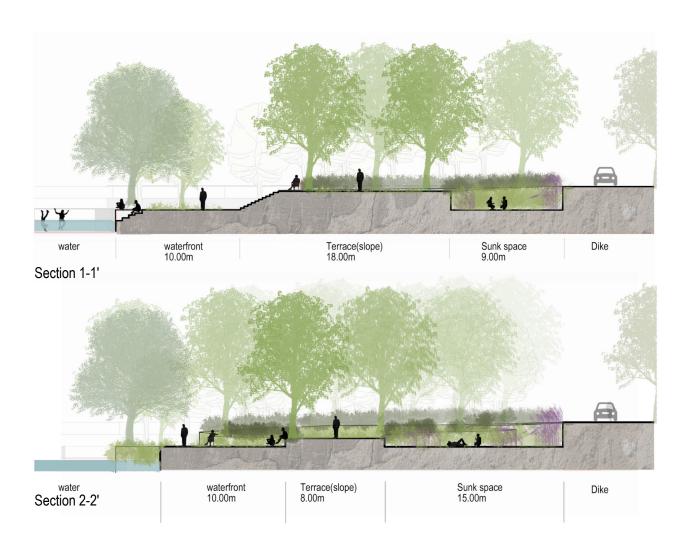
Secasonal color change of trees





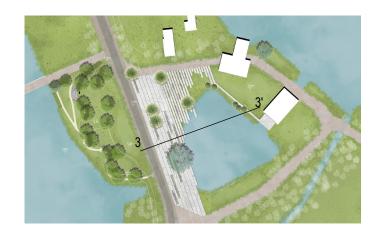
Design
S: Place Making







Design S: Place Making





Section 3-3'



S: Place Making

Test site 2: Dike + Tuindorp Oostzaan



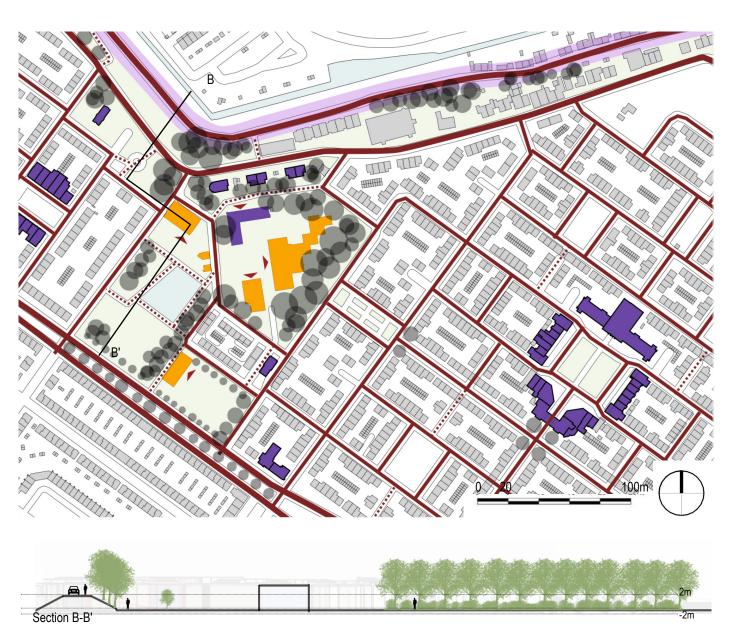






Car road
Pedestrain/bike path
The dike

Entrance to building
Historical building
Public service building
Existing tree



S: Place Making

Diagnosis:

Dike and Garden village:

1.Disconnection in landscape

Public space in Garden Village:

- 1. Single tree species, lack of varilety in plants
- 2. Swimming pool as important public space, but only used in summer
- 3. Entrance of public service buildings are hard to find

S: Place Making

Diagnosis:

Dike and Garden village:

1.Disconnection in landscape

Public space in Garden Village:

- 1. Single tree species, lack of variiety in plants
- 2. Swimming pool as important public space, but only used in summer
- 3. Entrance of public service buildings are hard to find

Design intervention:

Dike and Garden village:

1. Connect the dike to the front garden

Public space in Garden Village:

- 2. Build square that connects all entrances of Public service buildings
- 3. Multi-functional centural green with more subspace(water pond, semi-enclosed lawn, shaded squarem cafe) that has more functions through the years and more diverse plants. The size of the suspace is the same as the typical neighborhood plants.



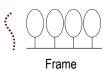


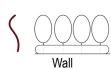
Section B-B'(after)

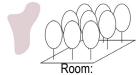
S: Place Making

Plantation scheme









activity space underneath trees



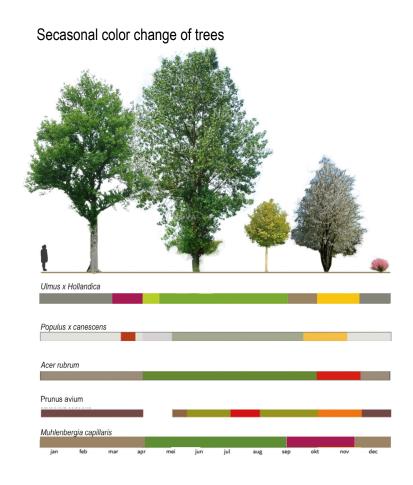
Block: inaccessible forest

Circulation and main program



Detailed plan 1: dike and garden village





S: Place Making





Design
S: Place Making



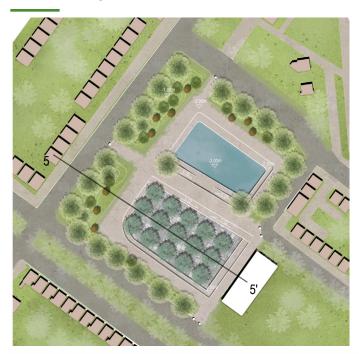
Green Bond Amsterdam-Noord | 86

S: Place Making

Detailed plan 2: public green spaces



S: Place Making





Sidewalk +parking 6.00m

Green fence 7.00m, 1.00m e. Sitting lawn 10.00m, 1.00m

e.

Path 6.00m

Sunken square 4.00m+46.00m+4.00m -2.50m -3.00m -2.50m

Path 4.50m

Cafe

House

Neighborhood road 6.00m

Section 5-5'



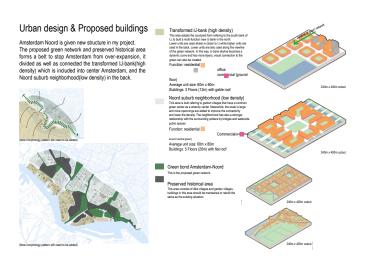
5 Conclusion & Reflection

Conclusion & Reflection

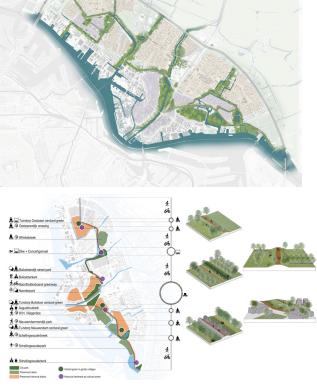
Cross-scale work

In this project, urban forest is used and reorganized for future garden city in 3 scales:

-L-City scale:



-M-Green system scale:



-S-urban forest place scale:



Conclusion & Reflection

Post-industrial transformation





Fig. 5. Artist impression of the Buiksloterham seen from the west. Illustration: Lukas Kukler $\,$



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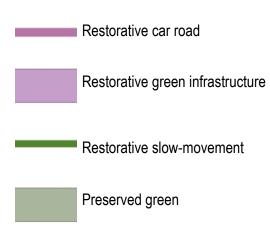


Site Study

Reflection of the existing urban forest

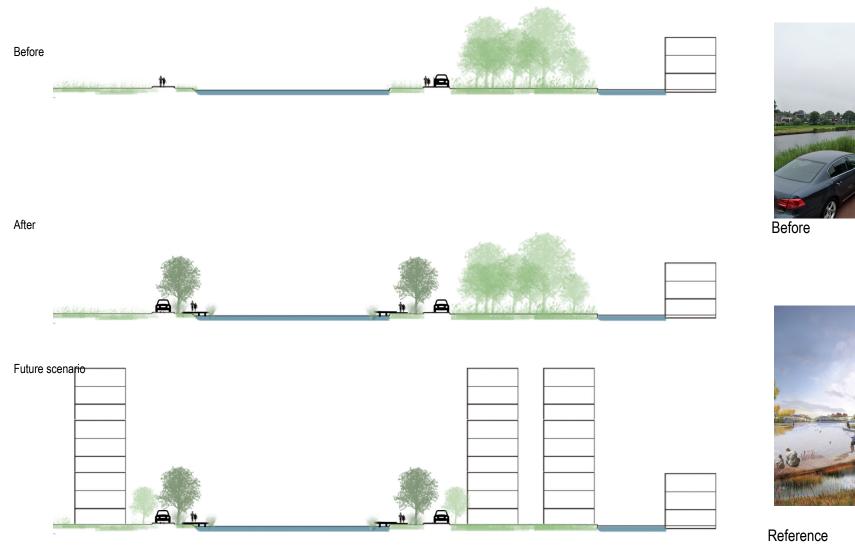
Amsterdam Noord:

- -Function-oriented green spaces.
- -Identity elements are separate and disconnected.
- -Slow movement system also need to be further developed.





Concpetual design_waterside roads

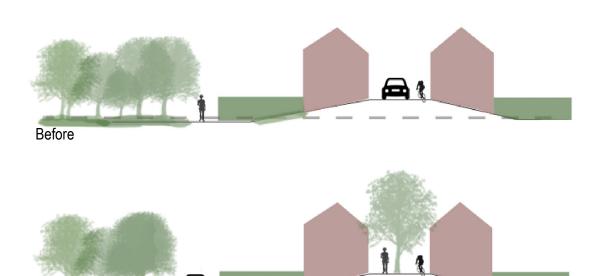






After

Concpetual design_Dike as neighborhood road





Before



Reference

Design Concpetual design_Dike as lost elements









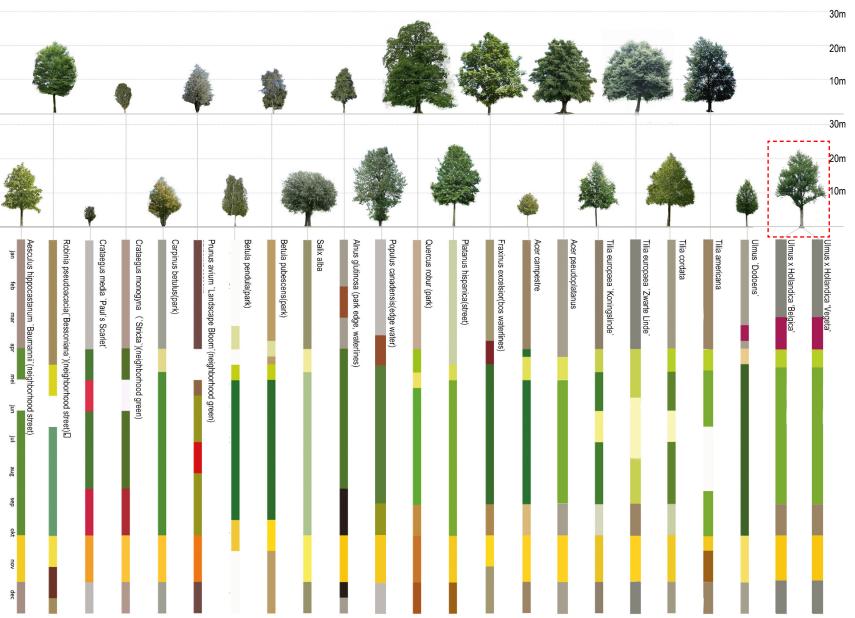
Before



Reference

The commonly trees in Amsterdam Noord are deciduous trees, which has a rich seasonal change through out the years.

The mostly used tree is *Ulmus hollandica*. This is also the most used tree in the whole, Amsterdam because it suits well with the salty water and soil condition. In Amsterdam Noord, *Ulmus hollandica* is also seen as monument trees along the old canal structures, thus it is the representative tree of the dike identity.(Source: Stiller, L., & Blankers, E. (2011). Het Amsterdamse Bomenboek).



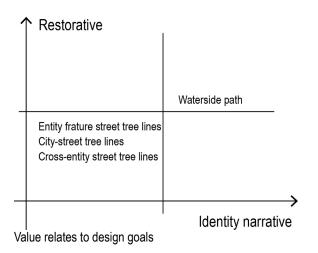
3.3 Urban forest

Features: single-species tree lines

A single-species tree line can create a strong sense of place and identity, thus is a important identity representative elements.

Apart from 2 watersiden path, the single-species tree lines in Amsterdam Noord are mostly used along car roads as street tree lines. There is a species language in hierarchy of 3 streets: City street tree lines (which is planted along city street, usually *Ulmus Hollandica*), cross-entity street tree lines (which is planted along main street that cross entities, usually *Ulmus* and *Tilia*) and entity feature tree.

Landscape features such as dikes and most waterside features can not be recognized in this network.





Ulmus city street lines

Ulmus

Tilia

Fraxinus excelsior

Platanus hispanica

Acer campestre

Alnus cordata

Metasequoia glyptostroboides

Waterside paths

City street tree: Ulmus hollandica
Cross-entity street tree: Tilia, Ulmus
Entity feature street tree: Tilia-americana, Fraxinus excelsior,
Platanus hispanica, Acer campestre, Alnus cordata, Metasequoia
glyptostroboides

Species language in street tree lines.

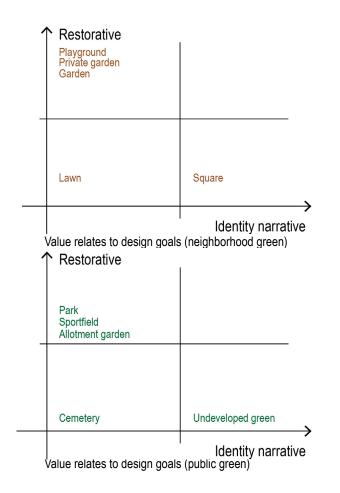
3.3 Urban forest

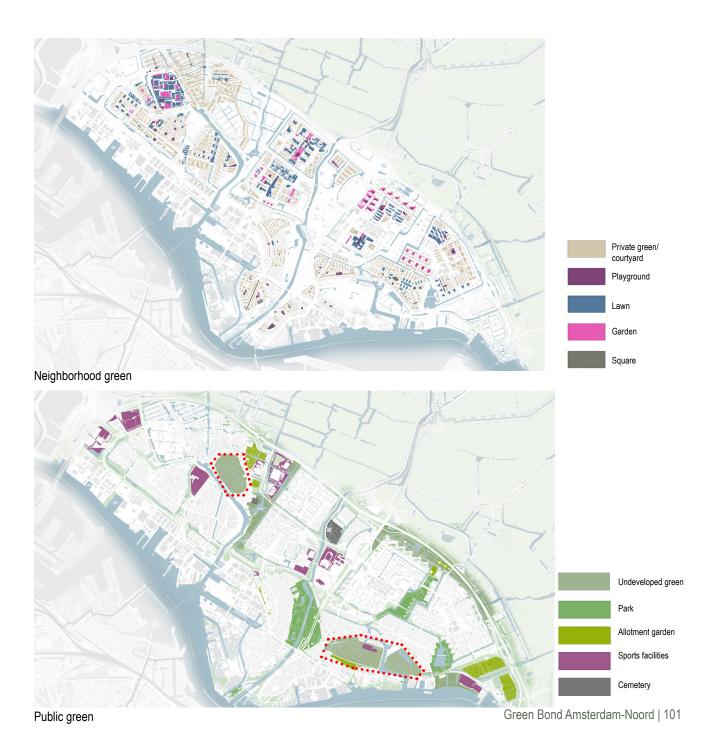
Areas: single-species tree lines

Neighborhood green and public green areas in the city are most functional oriented, such as playgrounds and sportfields.

Only a few has an enclosed space that can provide restorative value, such as gardens and city parks.

Only in 3 public areas can the green urban identity be seen in the landscape, such as a preserved polder and preserved forest.





Site Study

Site Analysis_Urban Fabric

Historical buildings with new functions Mostly hidden from the dike









Historical buildings along the dike

Buiksloterkerk Built in: 1609 Original Function: Church New Function: Church, monument, concert hall





Schellingwouderkerk Built in: 1866 Original Function: Church New Function: Church, Dining place





Augustinuskerk Built in: 1888 Original Function: Church New Function: Church (locked)





Concertgemaal Built in: 19?? (1984) Original Function: Power station New Function: Concert

hall, workplace





Historical buildings in Garden villages

Museum Amsterdam-Noord

Built in: 1918

Original Function: Bath

house

New Function: Museum





Zonnehuis Built in: 1932 Original Function: Community center New Function: Cultural center





Historical uildings at waterfront

Krijtmolen d'Admiraal

Built in: 1792 (1992) Original Function: Grinding

tuff to trass

New Function: Monument, event place for renting





Eye Film Museum/A'DAM Lookout

Built in: 1930(2011) Original Function: -

New Function: Entertainment





NDSM Built in: 1900

Original Function: Factory New Function: Events space



