



MIDDEN DELFLAND

towards 2070

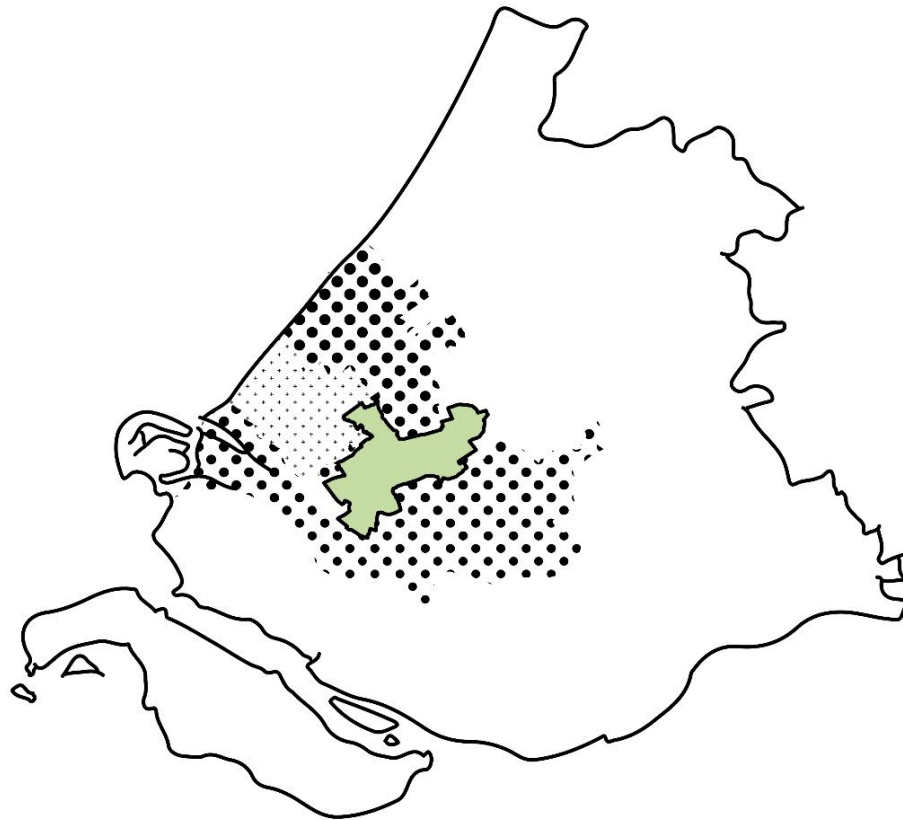
THE METROPOLITAN PARK

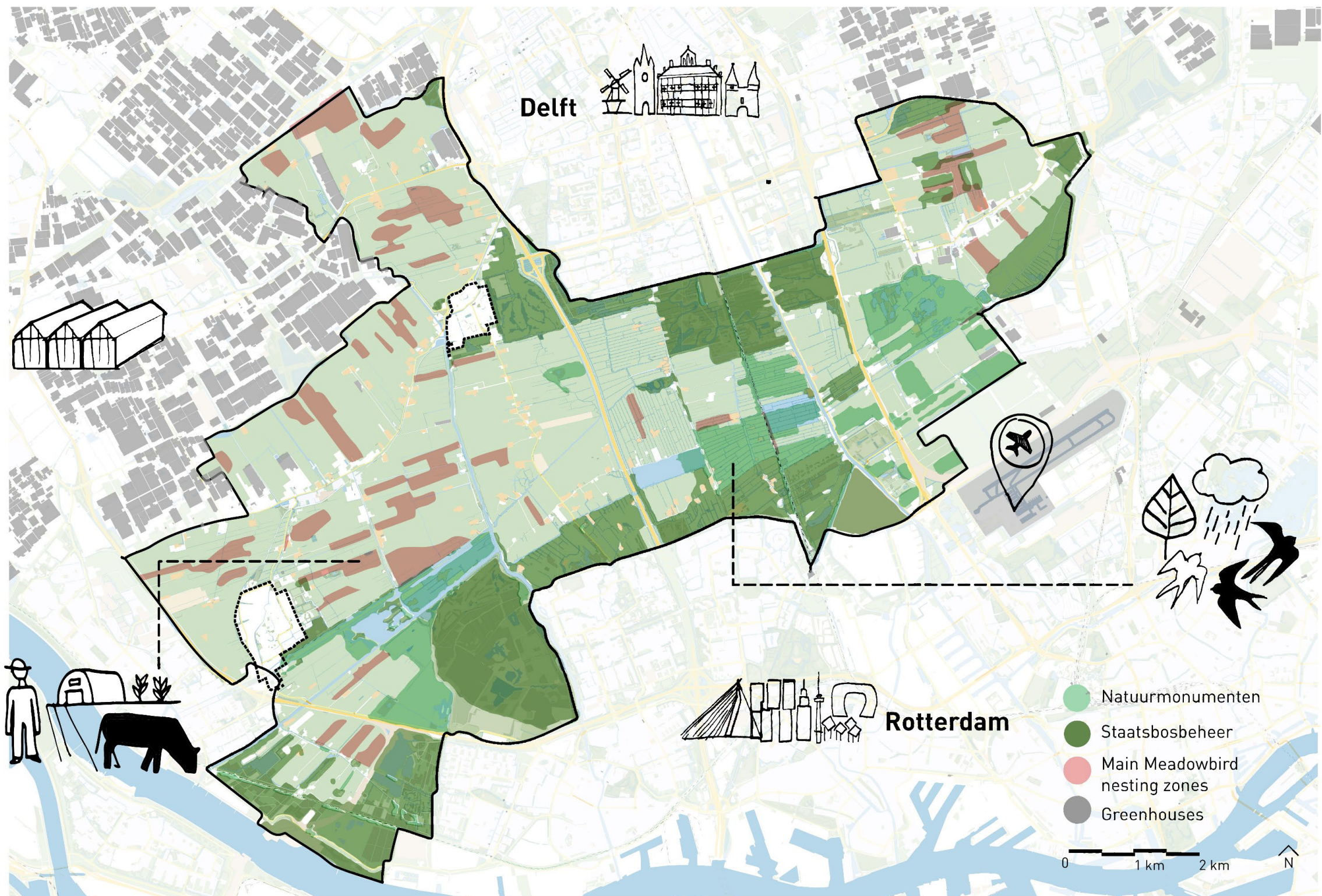
Wieke van Ulsen
Metropolitan Ecologies of Place
Msc Urbanism

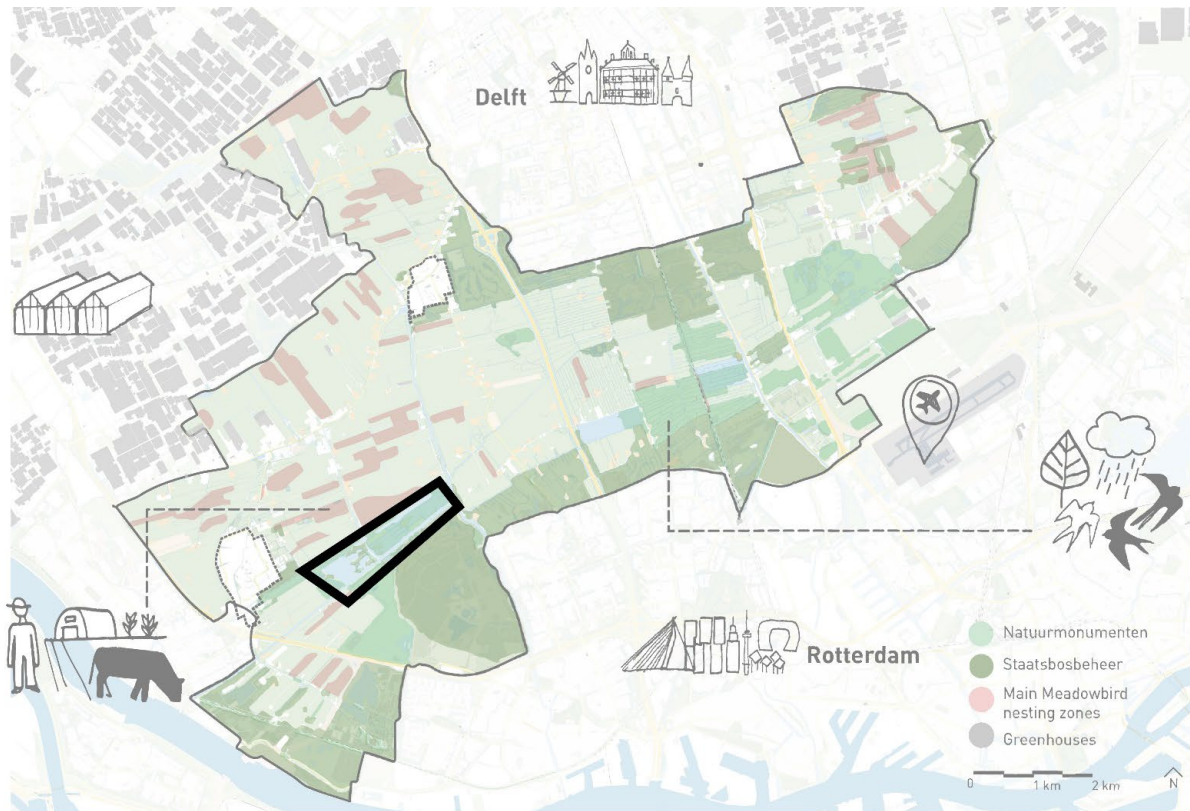


Midden-Delfland, met Rotterdam aan de horizon. (*Natuurmonumenten, Polder Schieveen, 2023*)

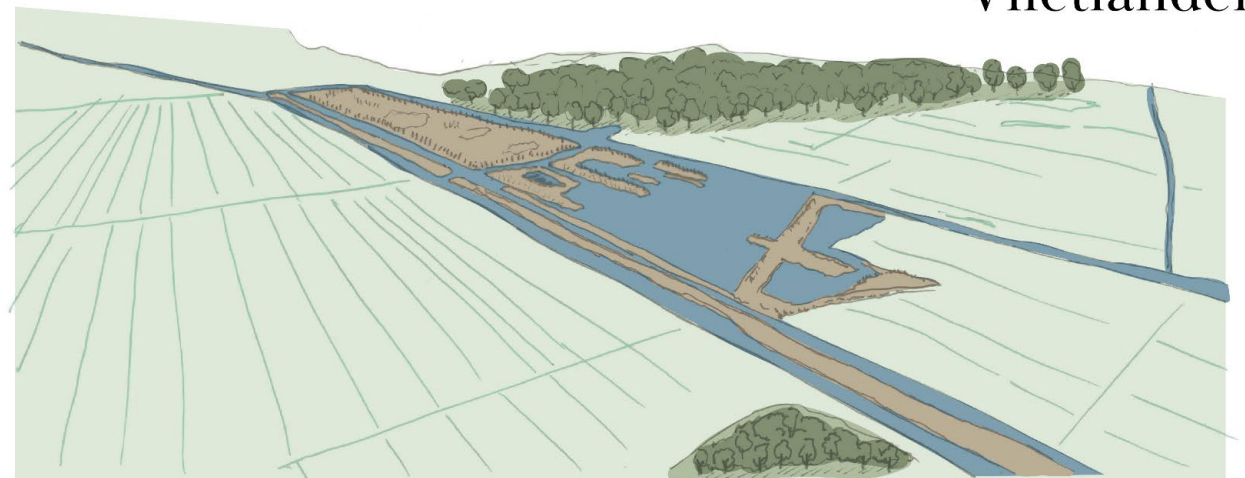


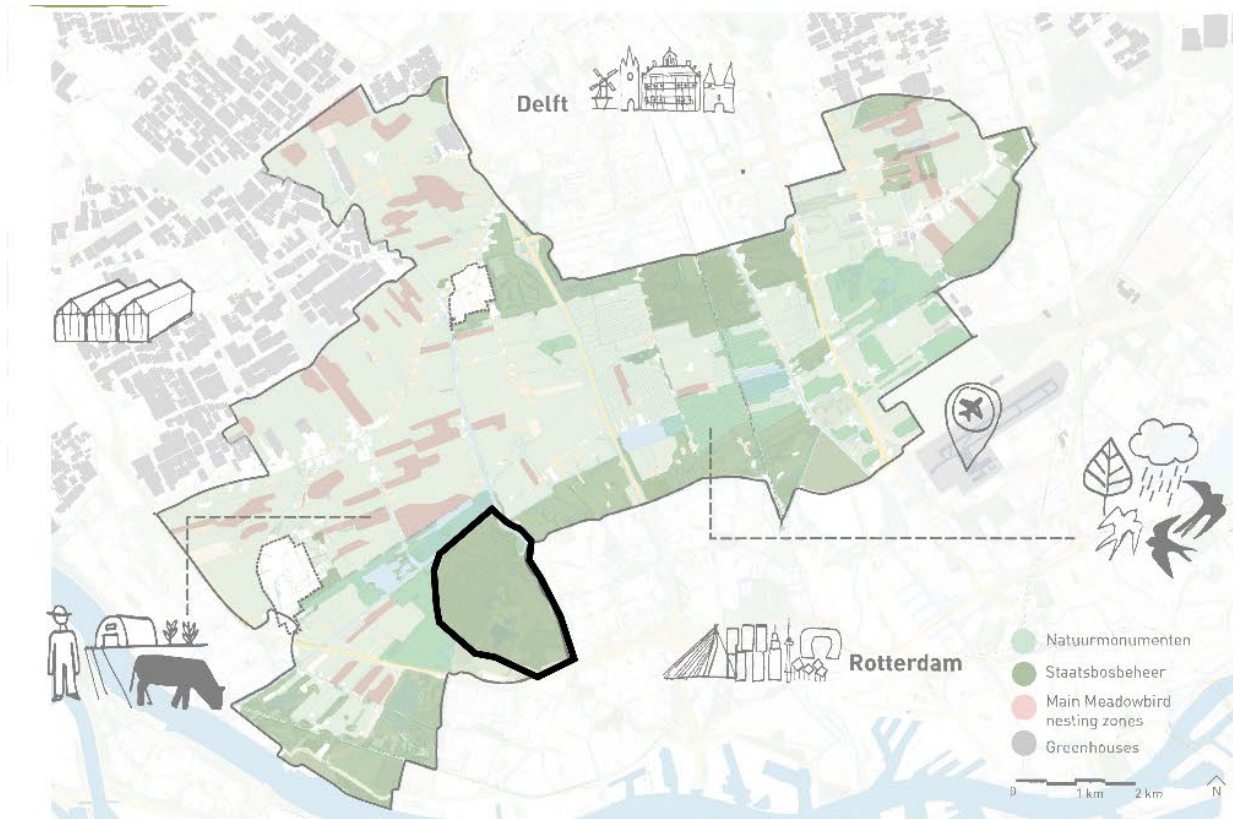




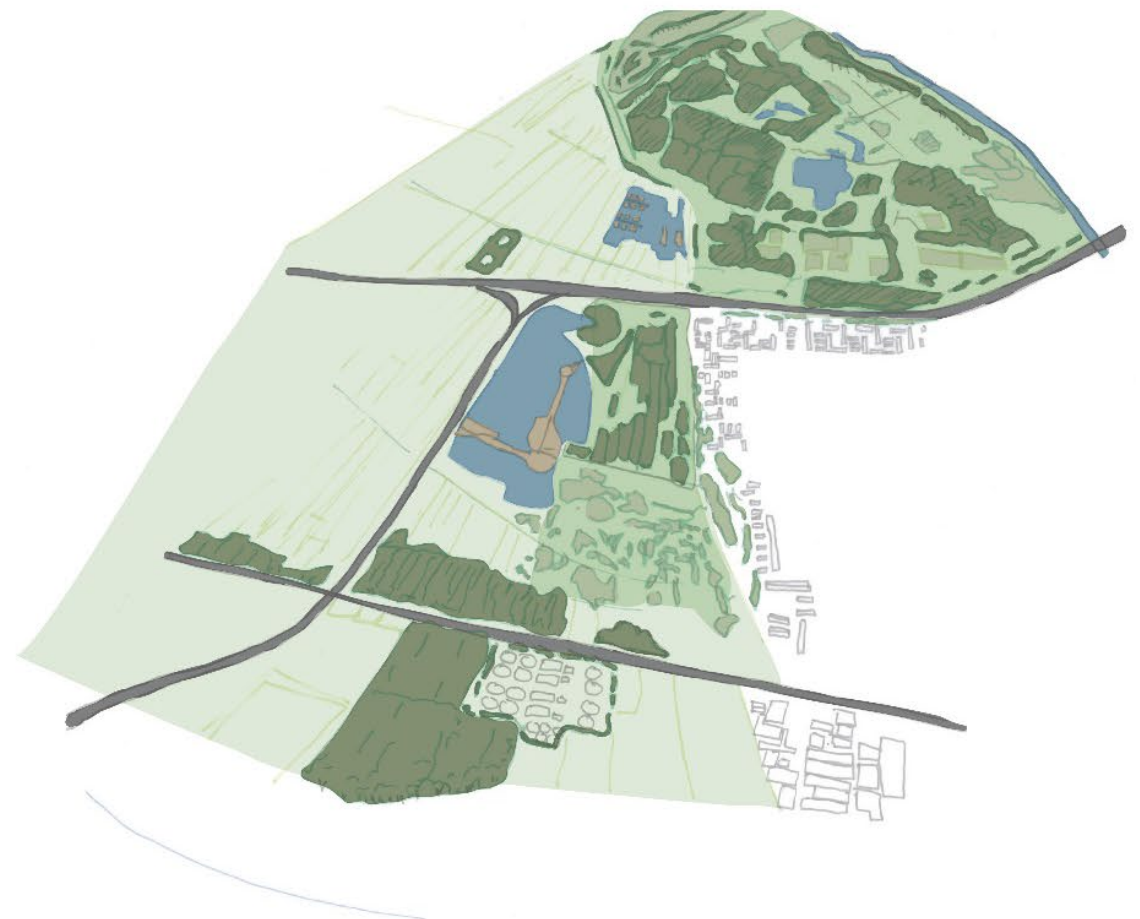


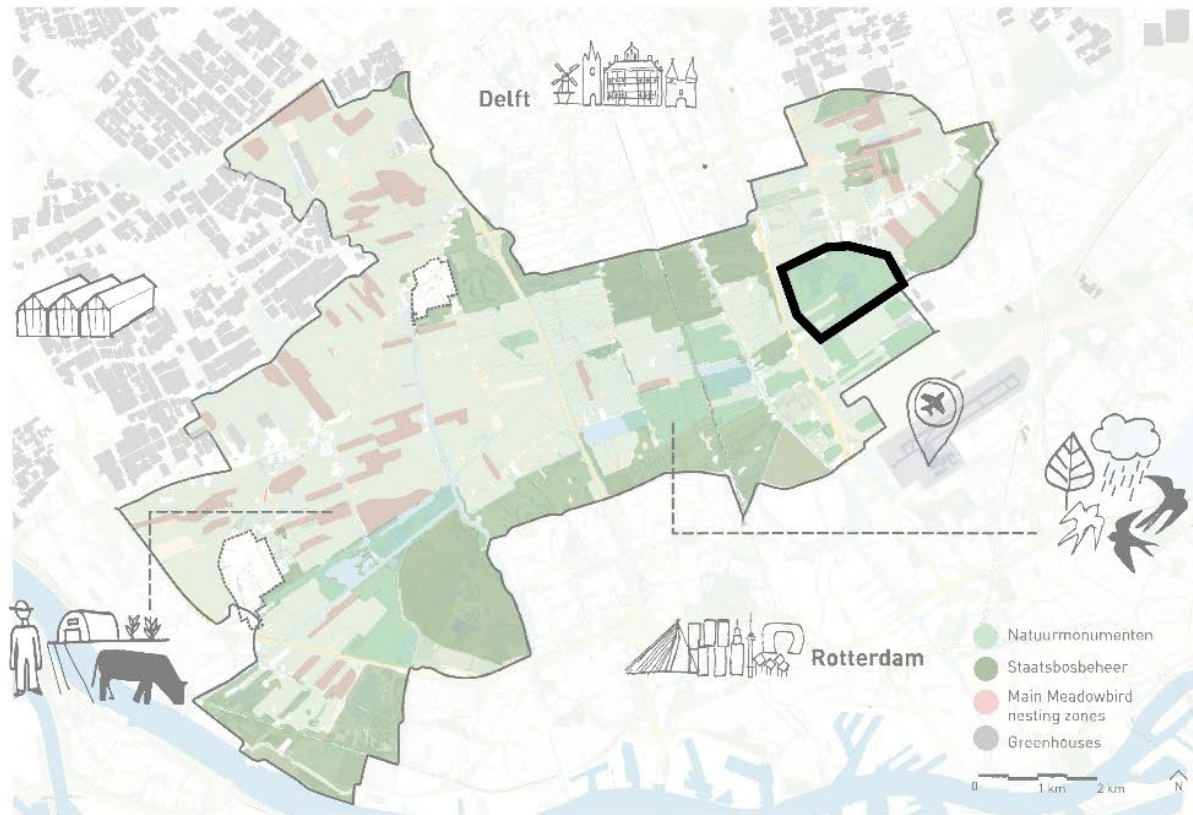
Vlietlanden





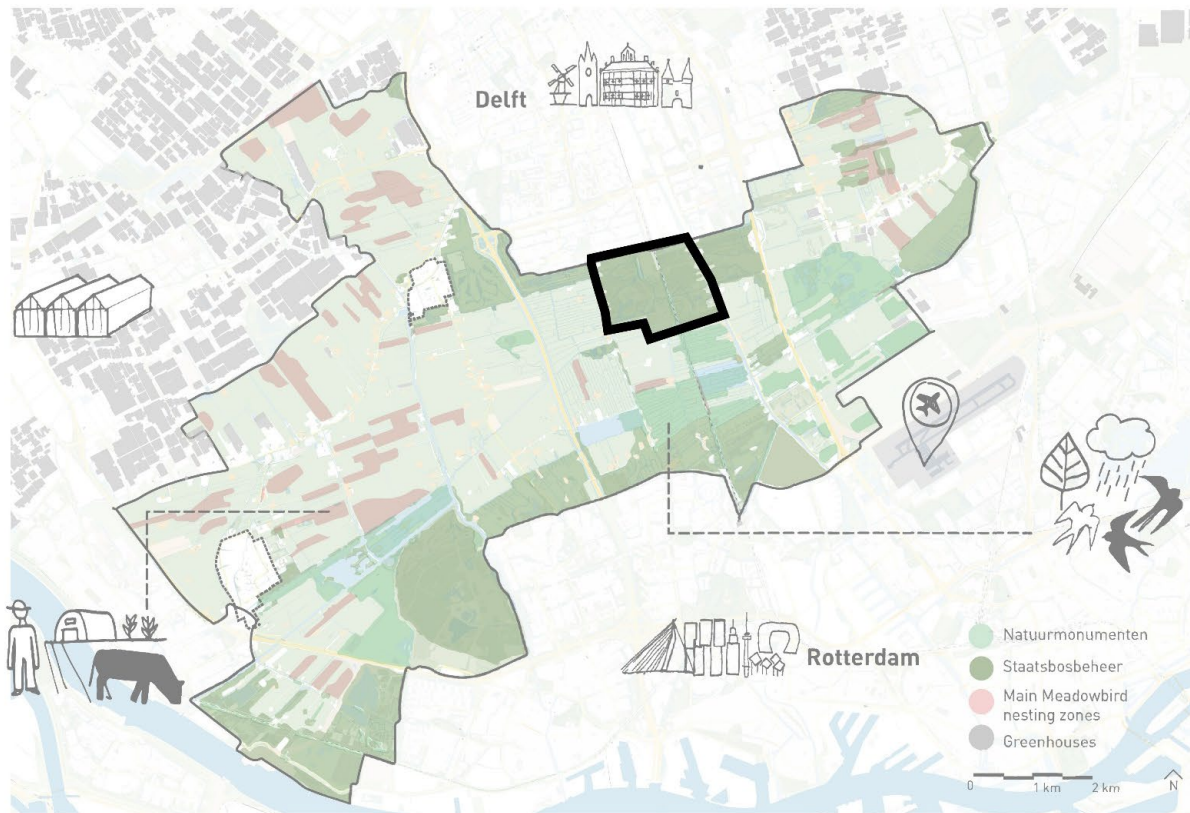
Broekpolder





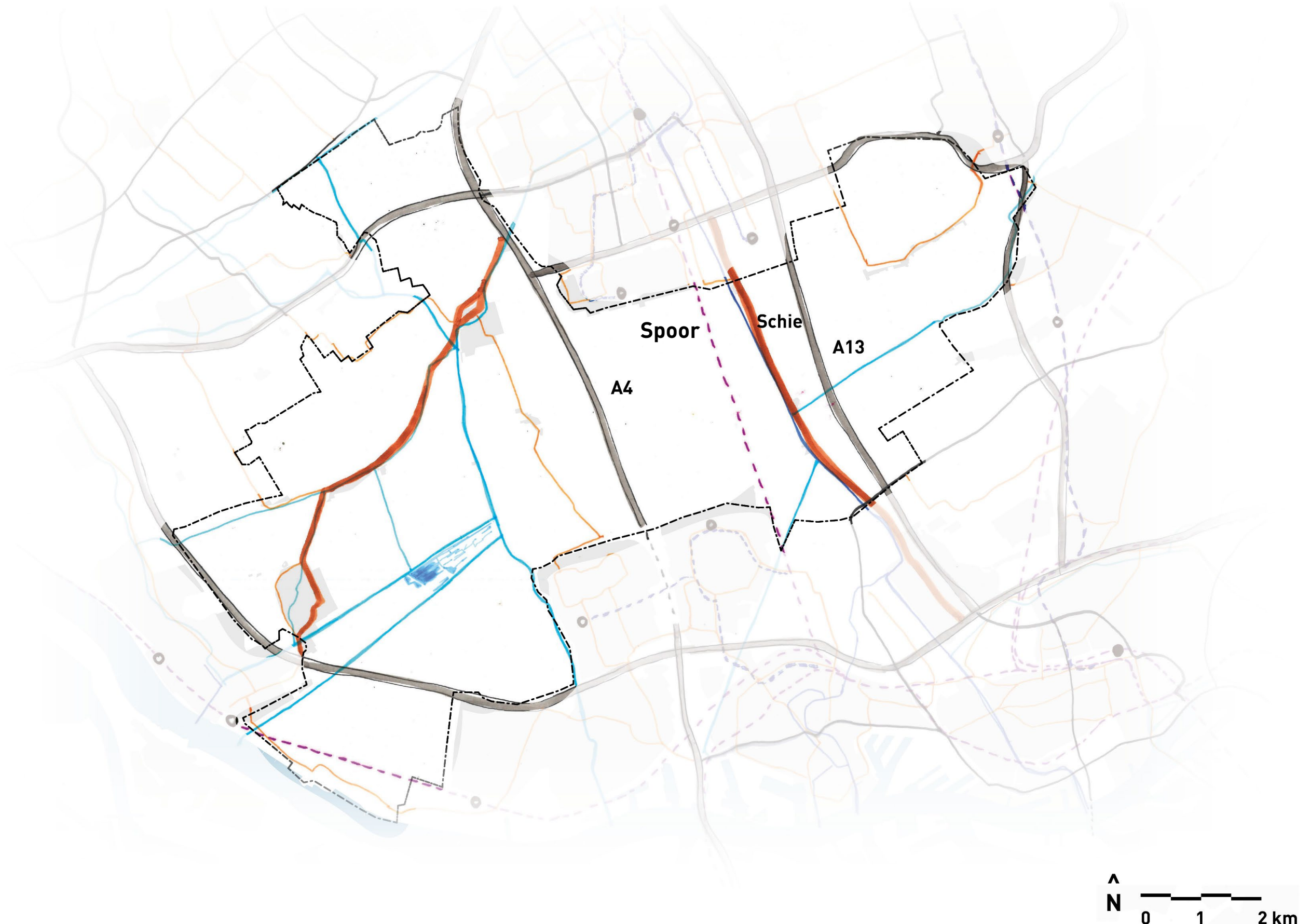
Akerdijkse Plassen





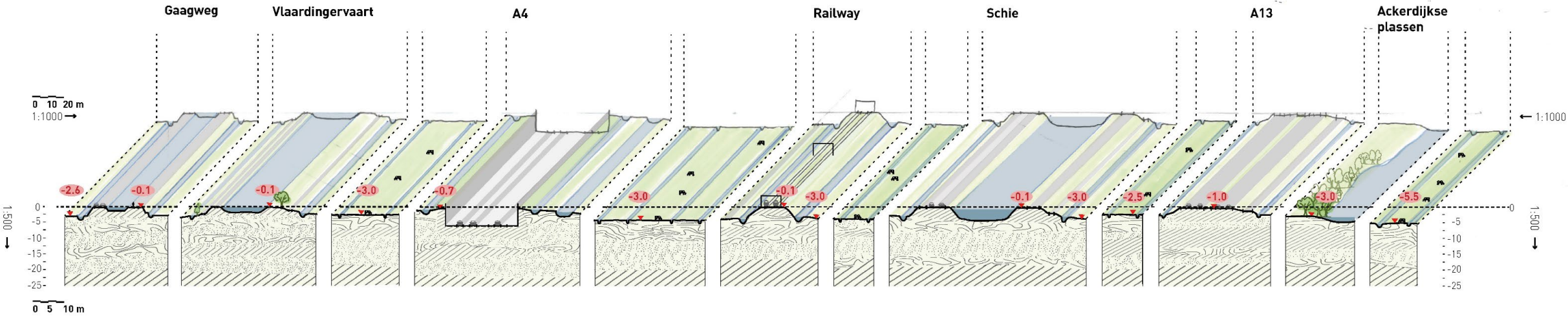
Abtswoudse Bos



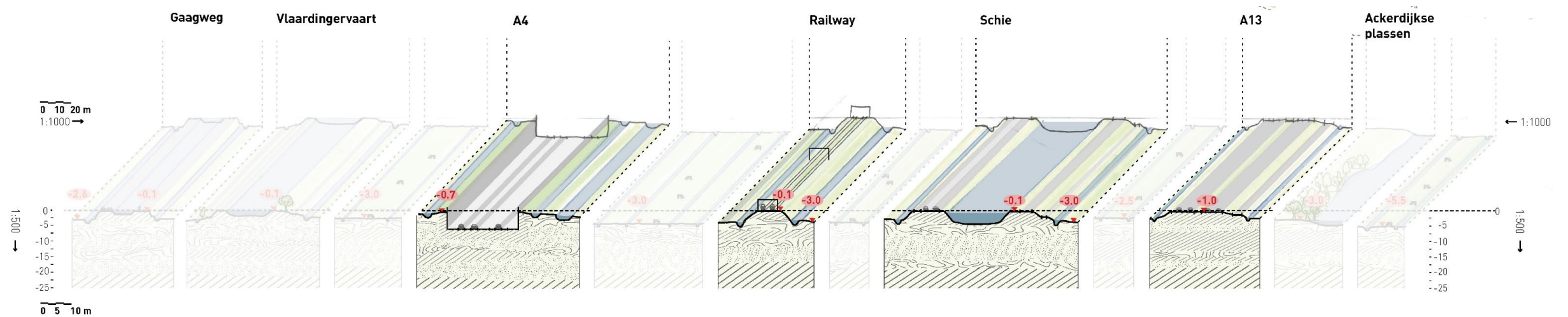




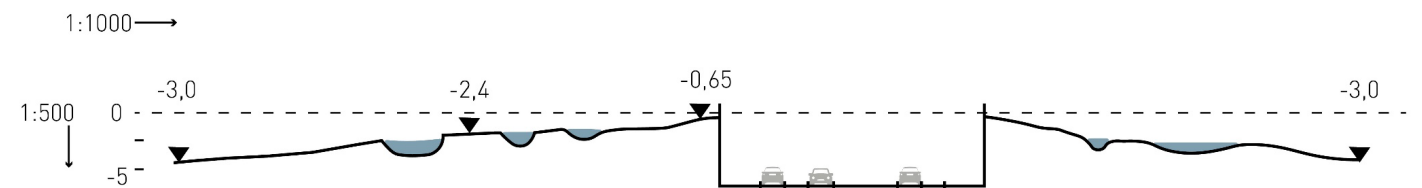
Doorsnede A



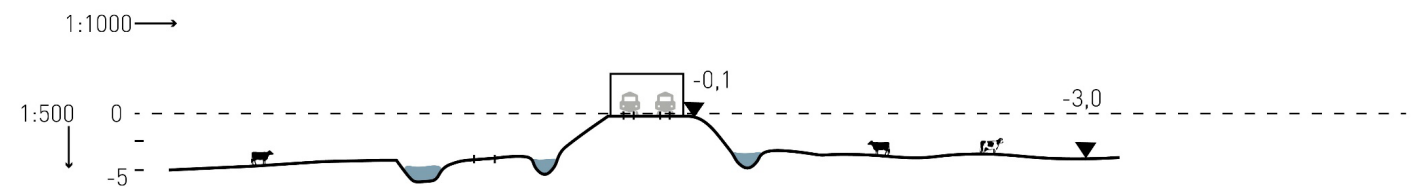
Doorsnede A



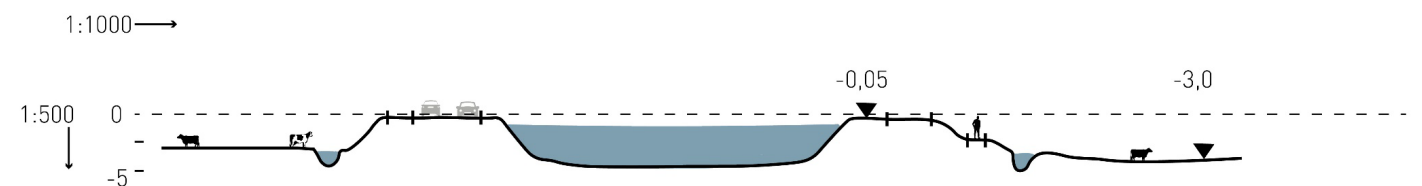
Doorsnede A4

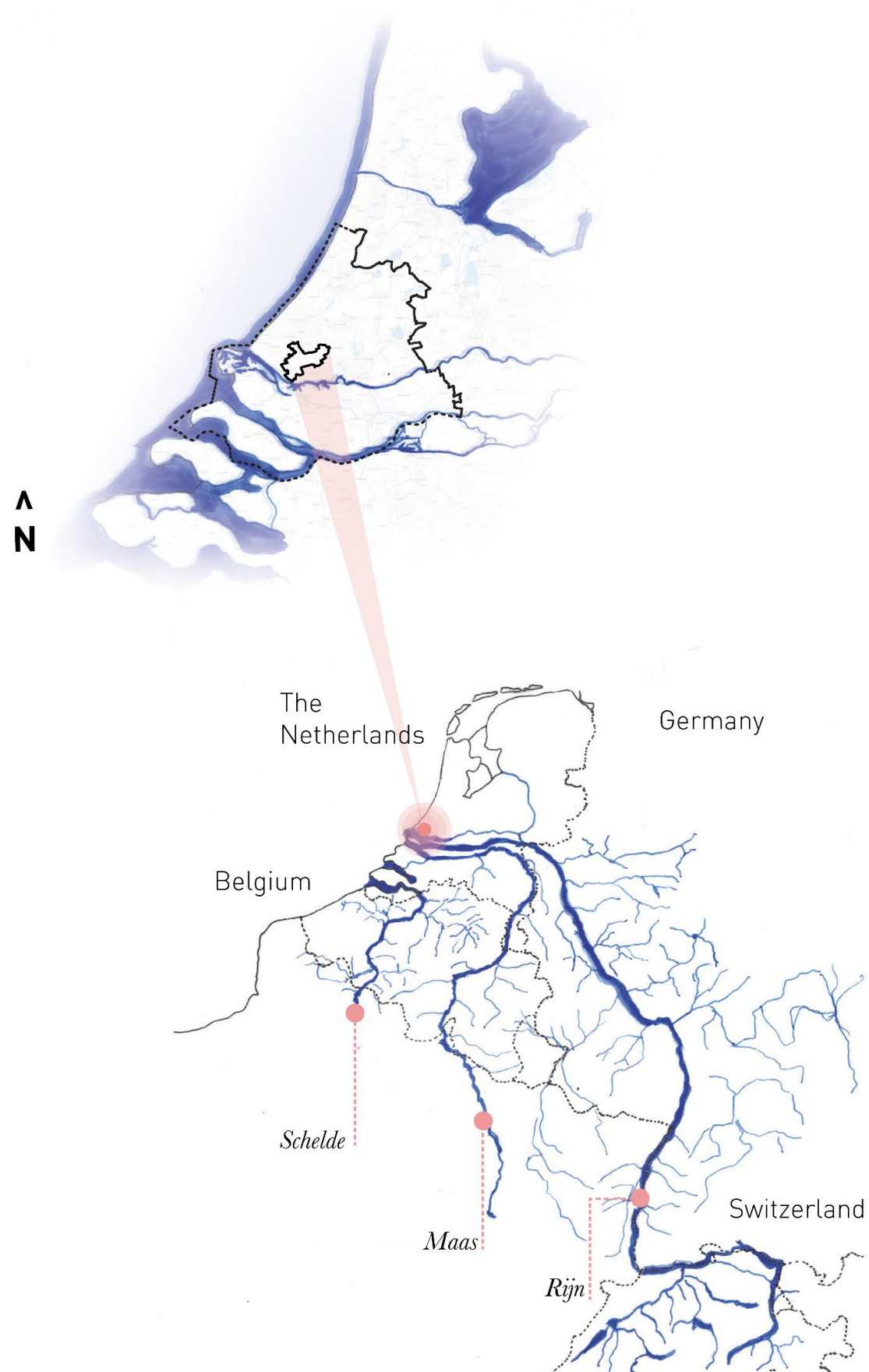


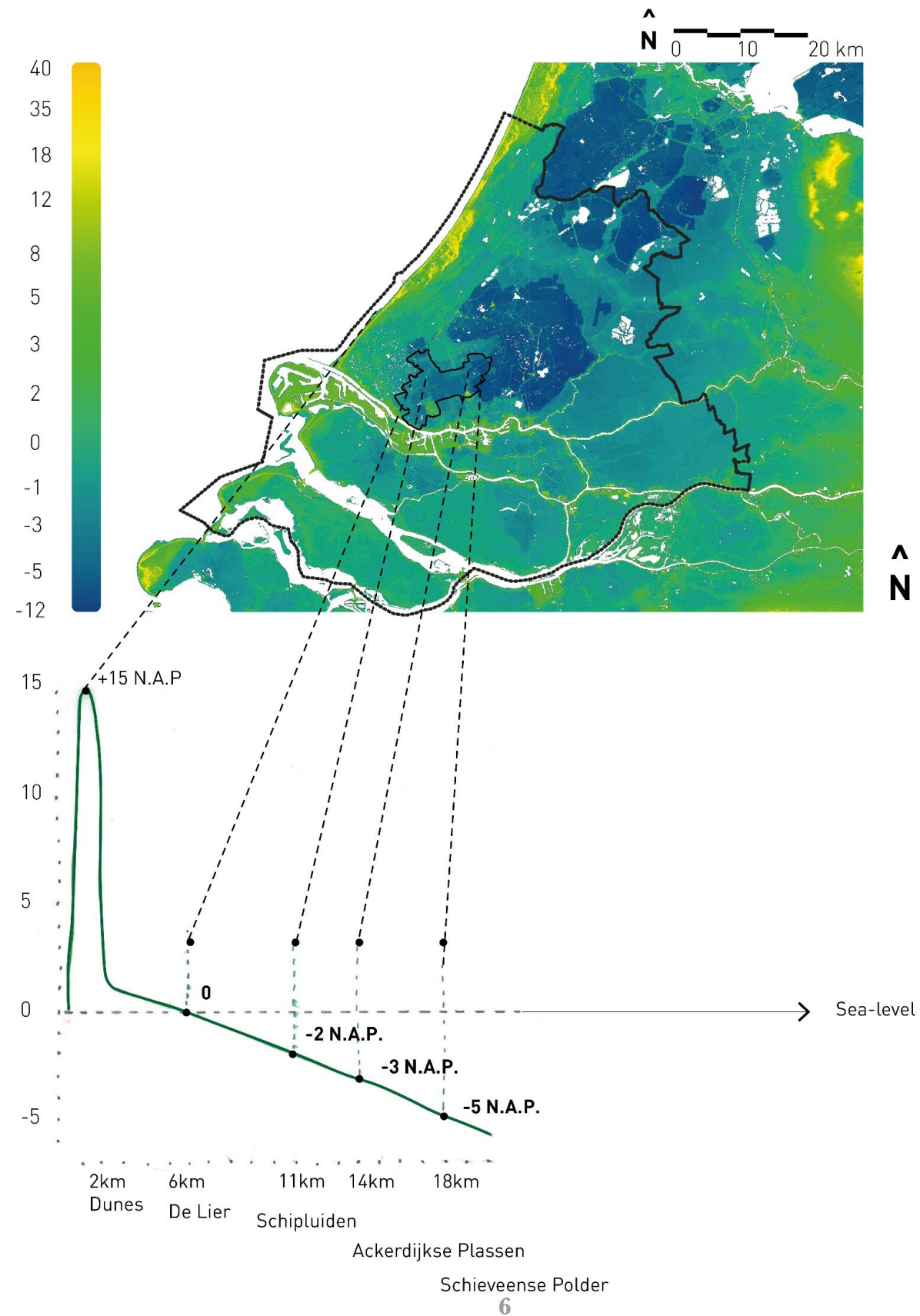
Doorsnede Spoor

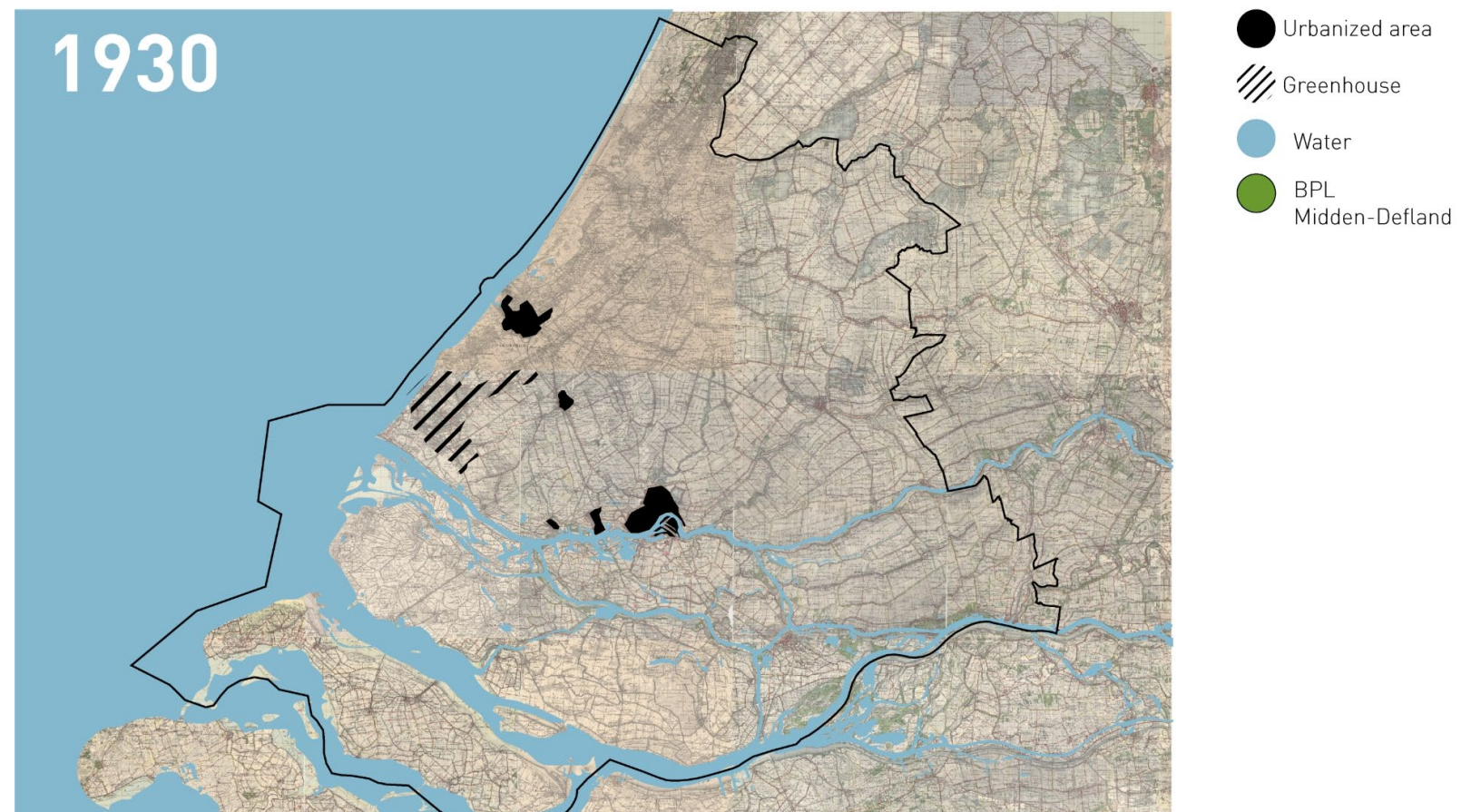


Doorsnede Schie

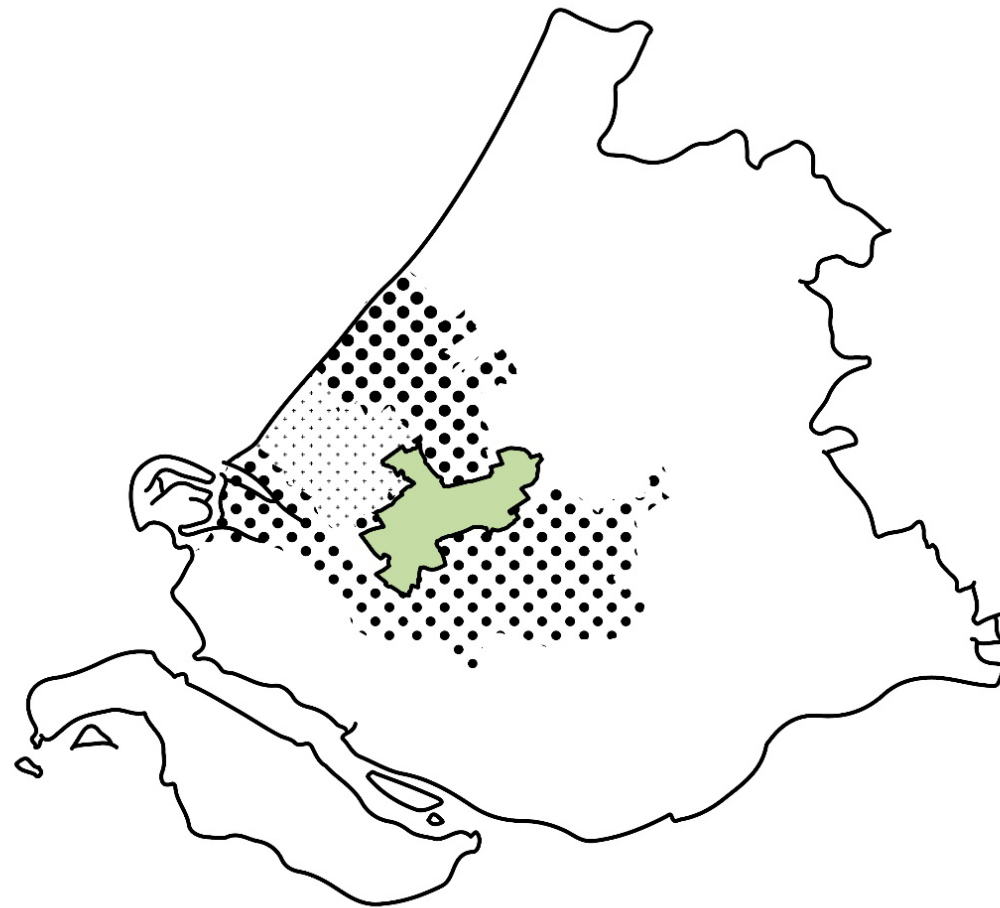


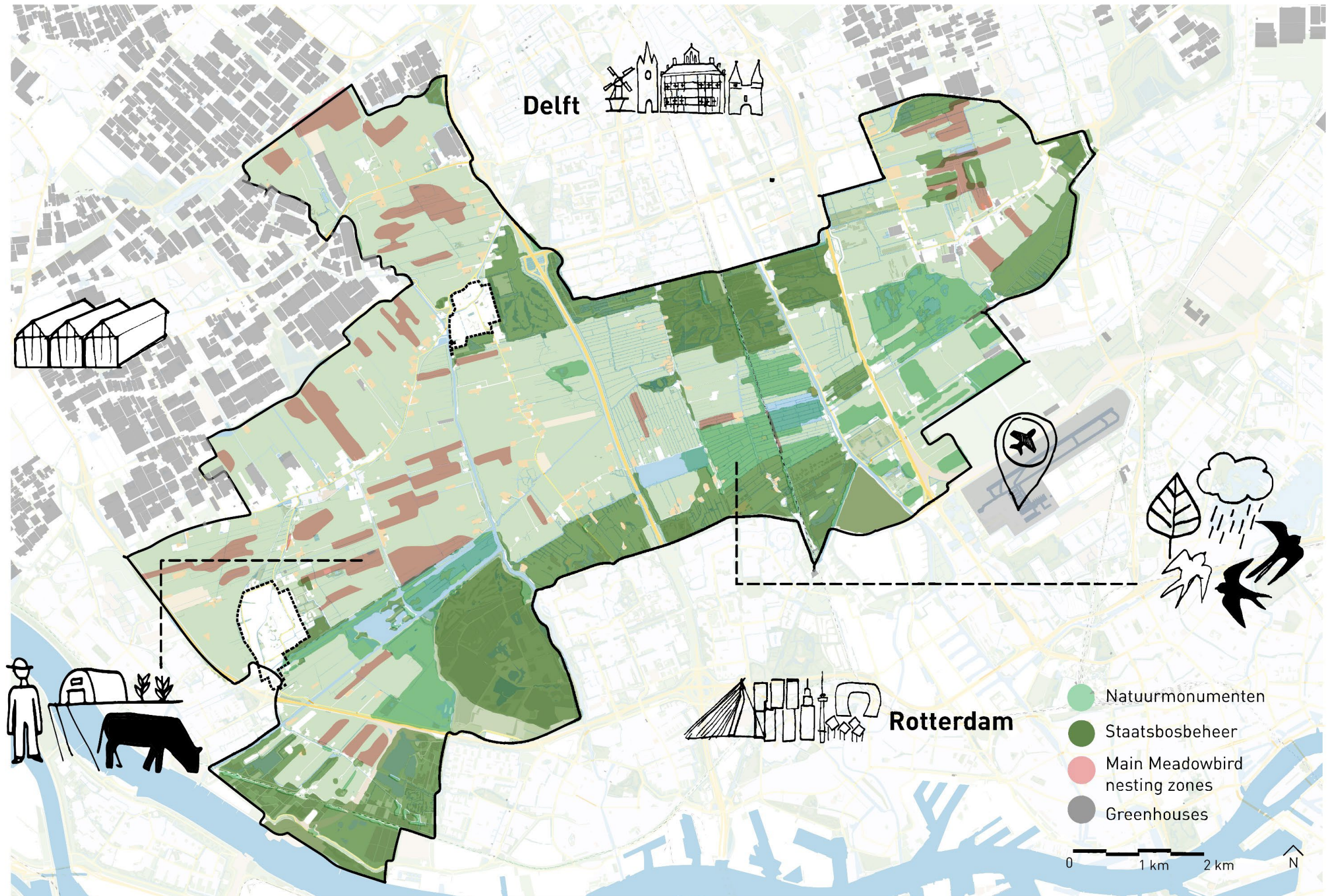




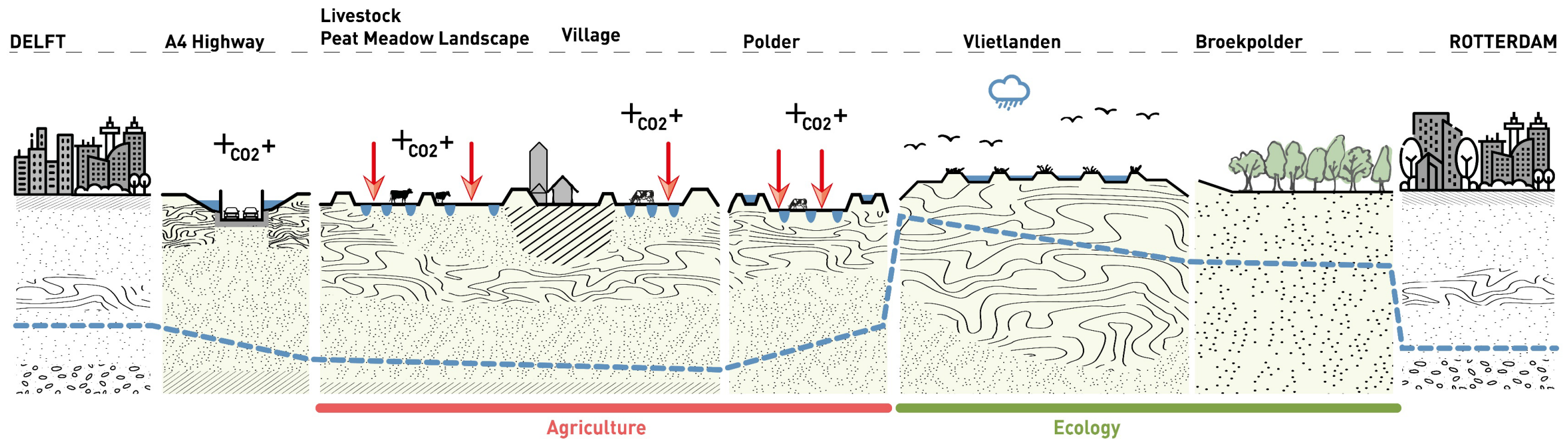


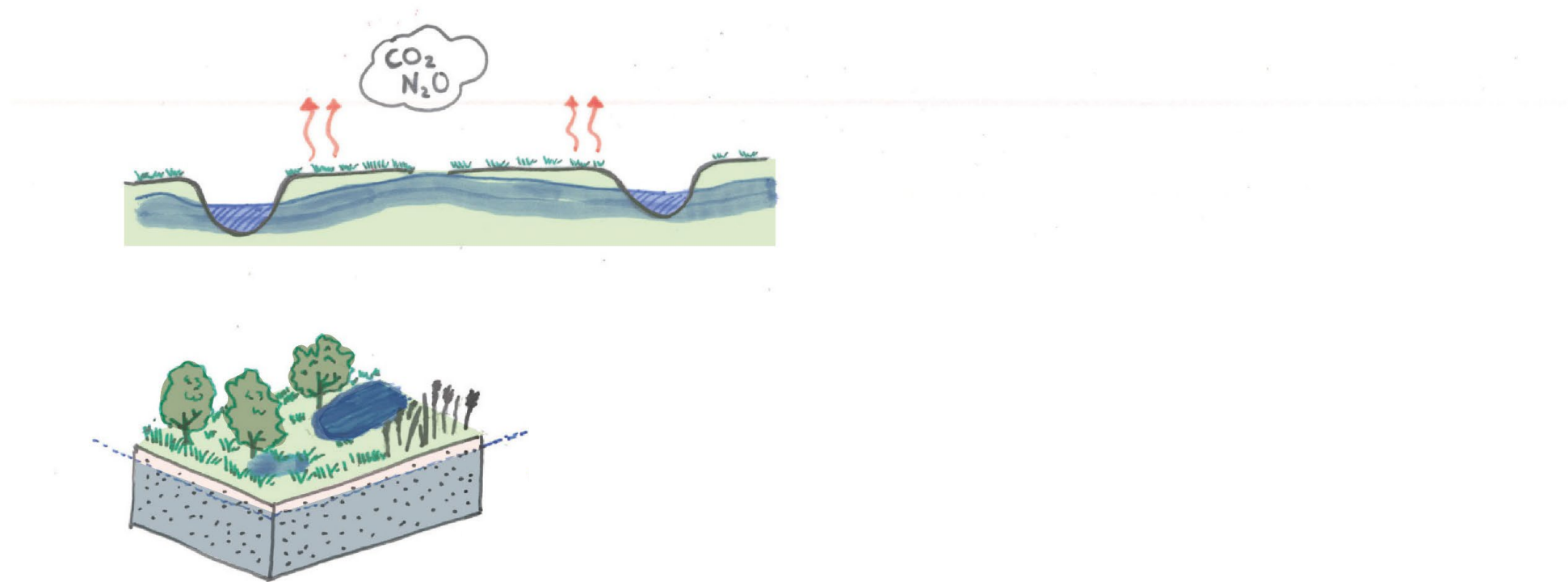
***“Buitenruimte voor de 2 miljoen inwoners
van de metropoolregio Rotterdam- Den Haag”***





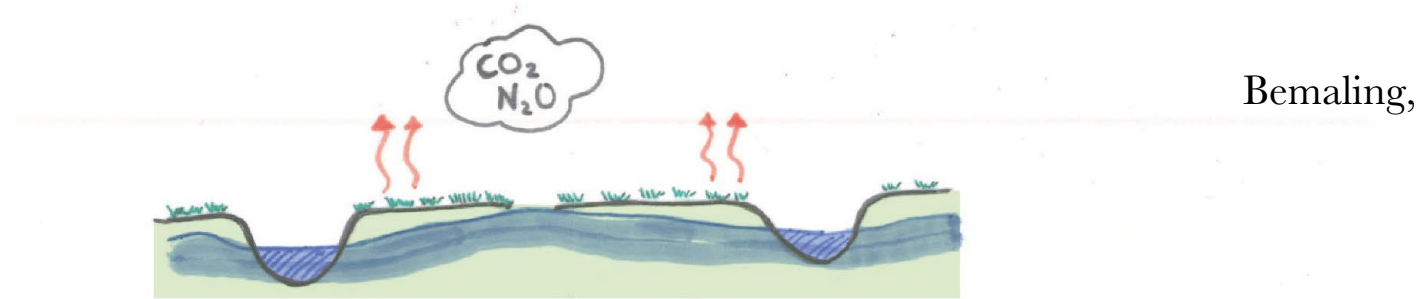
Versimpelde Landschapsdoorsnede



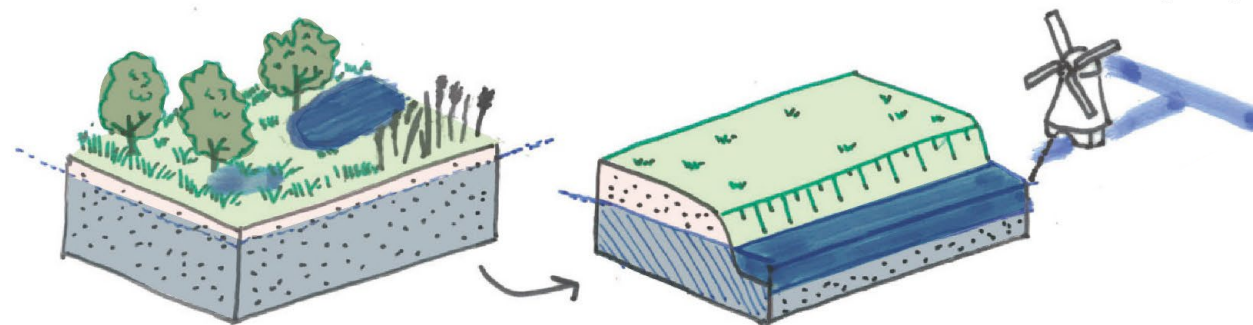


Oorspronkelijk landschap:
Veenlandschap

Bodemdaling: een vicieuze cirkel



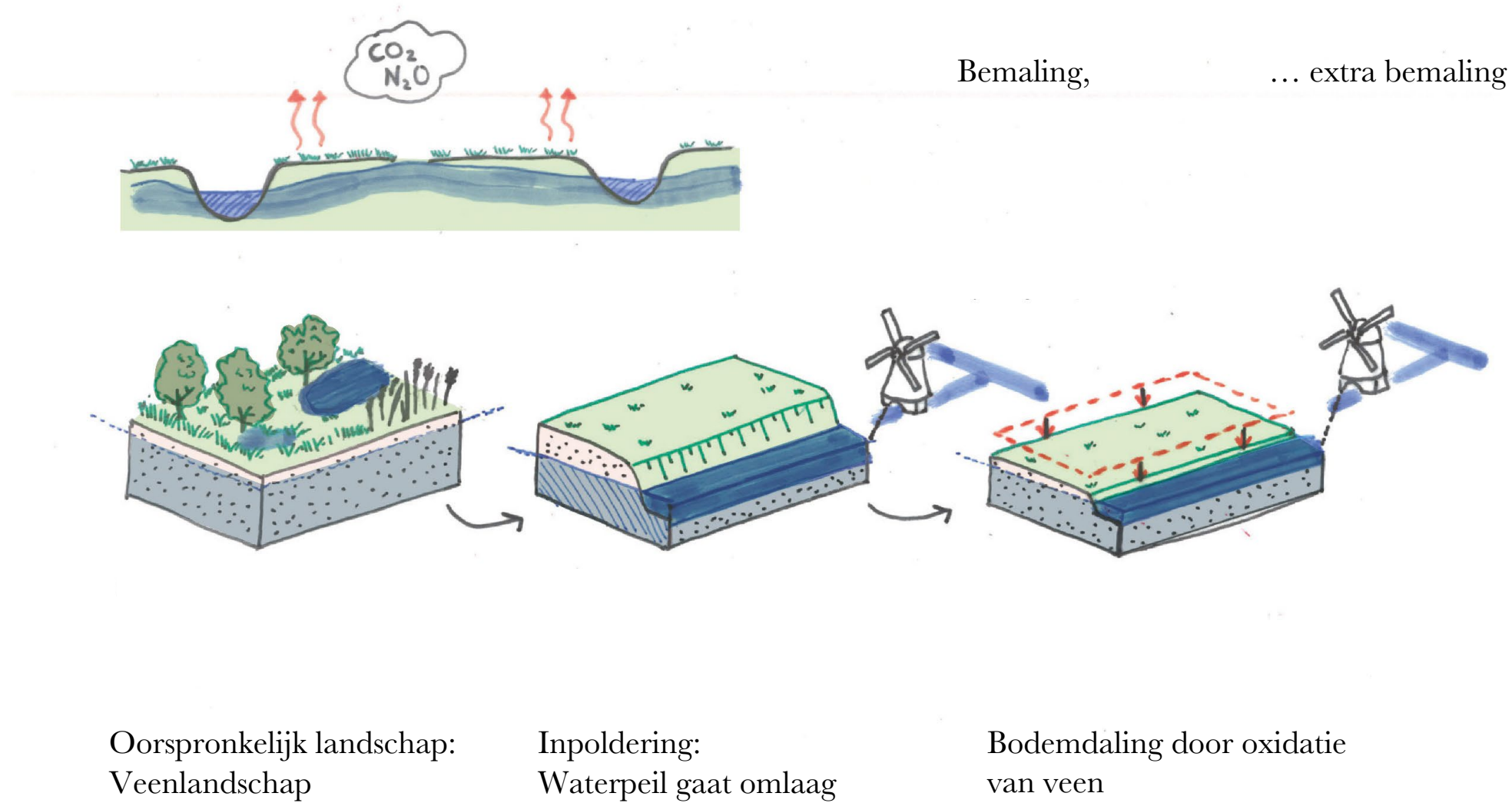
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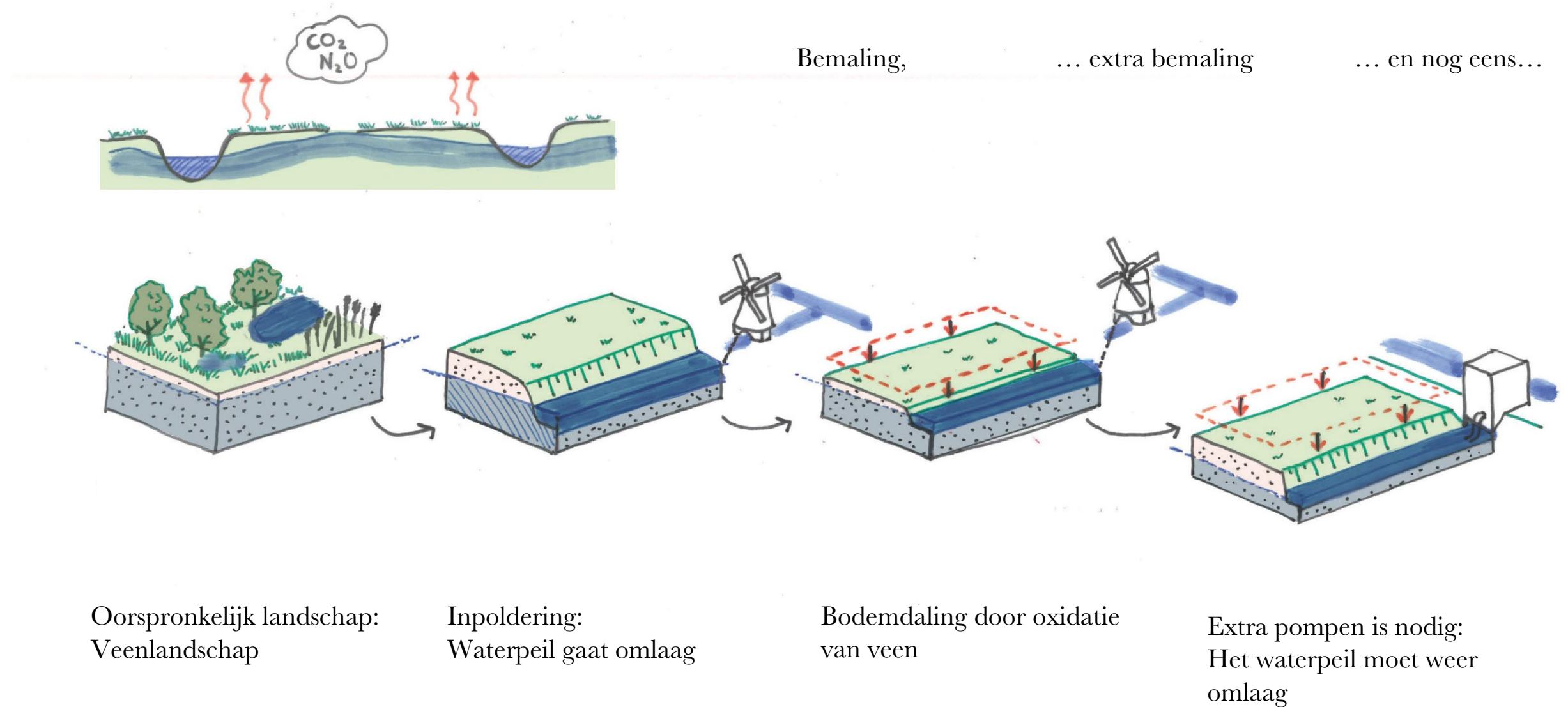


Oorspronkelijk landschap:
Veenlandschap

Inpoldering:
Waterpeil gaat omlaag

Bodemdaling: een vicieuze cirkel

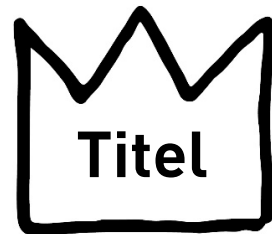




Bodemdaling: een vicieuze cirkel



NU

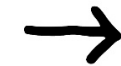


Bijzonder Provinciaal
Landschap



Toekomst

Den Haag



Rotterdam



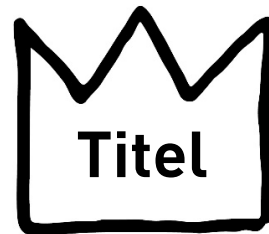
Delft



Ecologie

Recreatie

Landbouw

NU

Bijzonder Provinciaal
Landschap

**Toekomst**

Den Haag



Delft



Rotterdam

**Ecologie****Recreatie****Landbouw**

*“Hoe kan de ontwikkeling en integratie van **het ecologische karakter**,
de agrarische sector en de **recreatieve functies**
bijdragen aan het bevorderen van een duurzame toekomst voor de regio
Midden-Delfland richting 2070?”*

Wat moet er gebeuren met de regio Midden-Delfland tot 2070? - ONDERZOEKSOVERZICHT

2024

1

Midden-Delfland

Introductie

De Uitdagingen

Probleemstelling

3 Thema's

Wat is er ?



Open & Groen

Bijzonder Provinciaal Landschap



Klimaatverandering

fragmentatie
 bodemdaling
 verstedelijking

ECOLOGIE
 LANDBOUW
 RECREATIE

Literatuur
Onderzoek

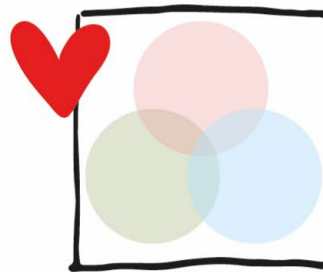
2

Wat kan er
gebeuren ?

Maximalisatie



Optimalisatie



Ontwerp
oplossingen



Analyse

Stakeholders



3

Wat is
daarvoor
nodig ?

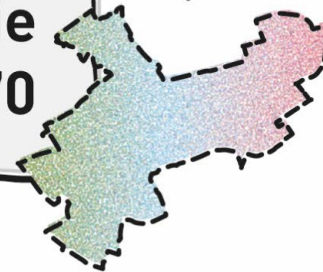


Strategie



Visie
2070

Ontwerp



Hoe zal Midden-Delfland eruit zien in 2070?

2070

Wat moet er gebeuren met de regio Midden-Delfland tot 2070? - ONDERZOEKSOVERZICHT

2024

1

Midden-Delfland

Introductie

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Wat is er ?

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Klimaatverandering

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 verstedelijking

ECOLOGIE
 LANDBOUW
 RECREATIE

2

Wat kan er gebeuren ?

Maximalisatie



Optimalisatie



Literatuur Onderzoek

Analyse

Ontwerp oplossingen



Stakeholders



3

Wat is daarvoor nodig ?

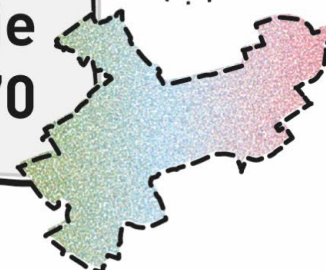


Strategie



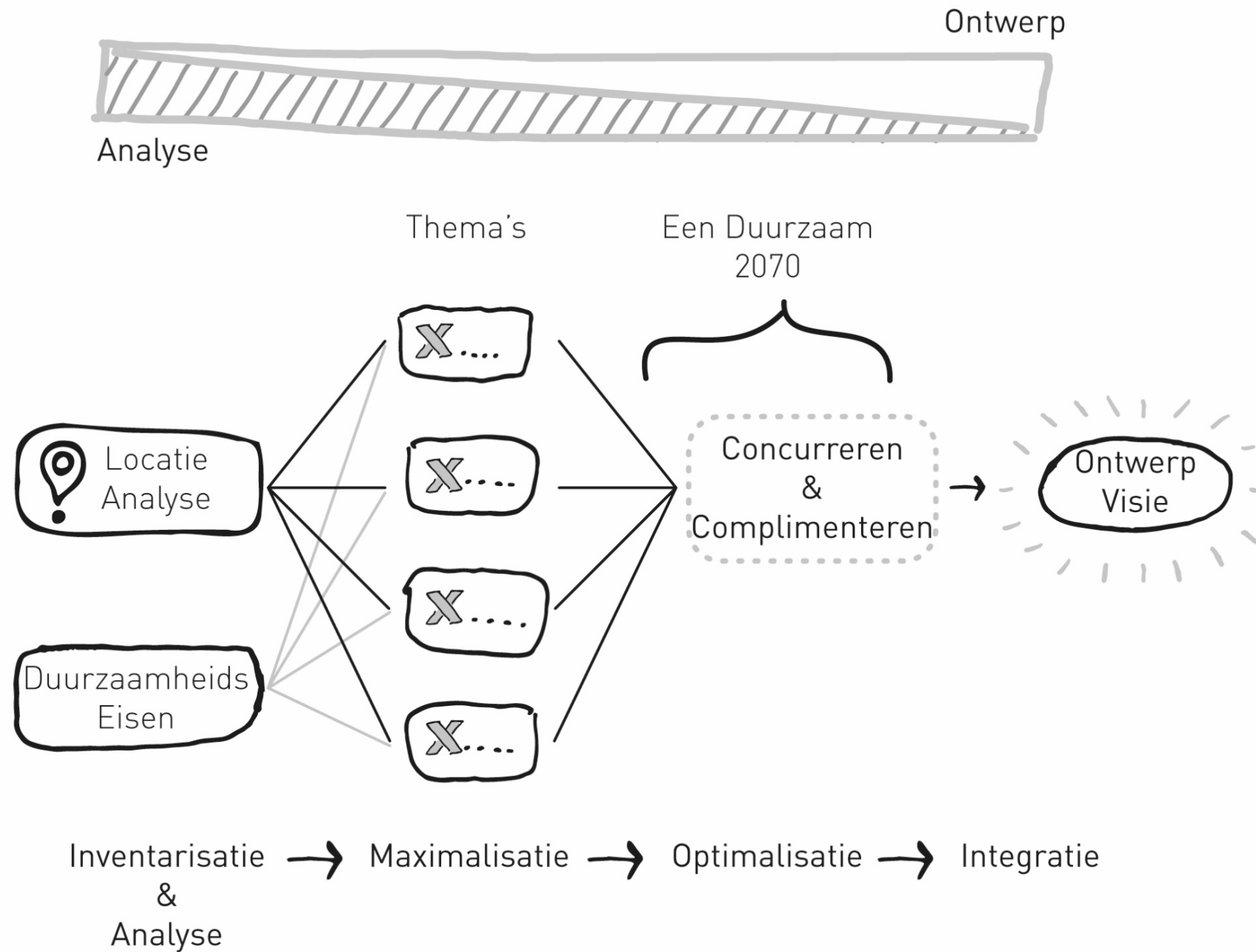
Visie 2070

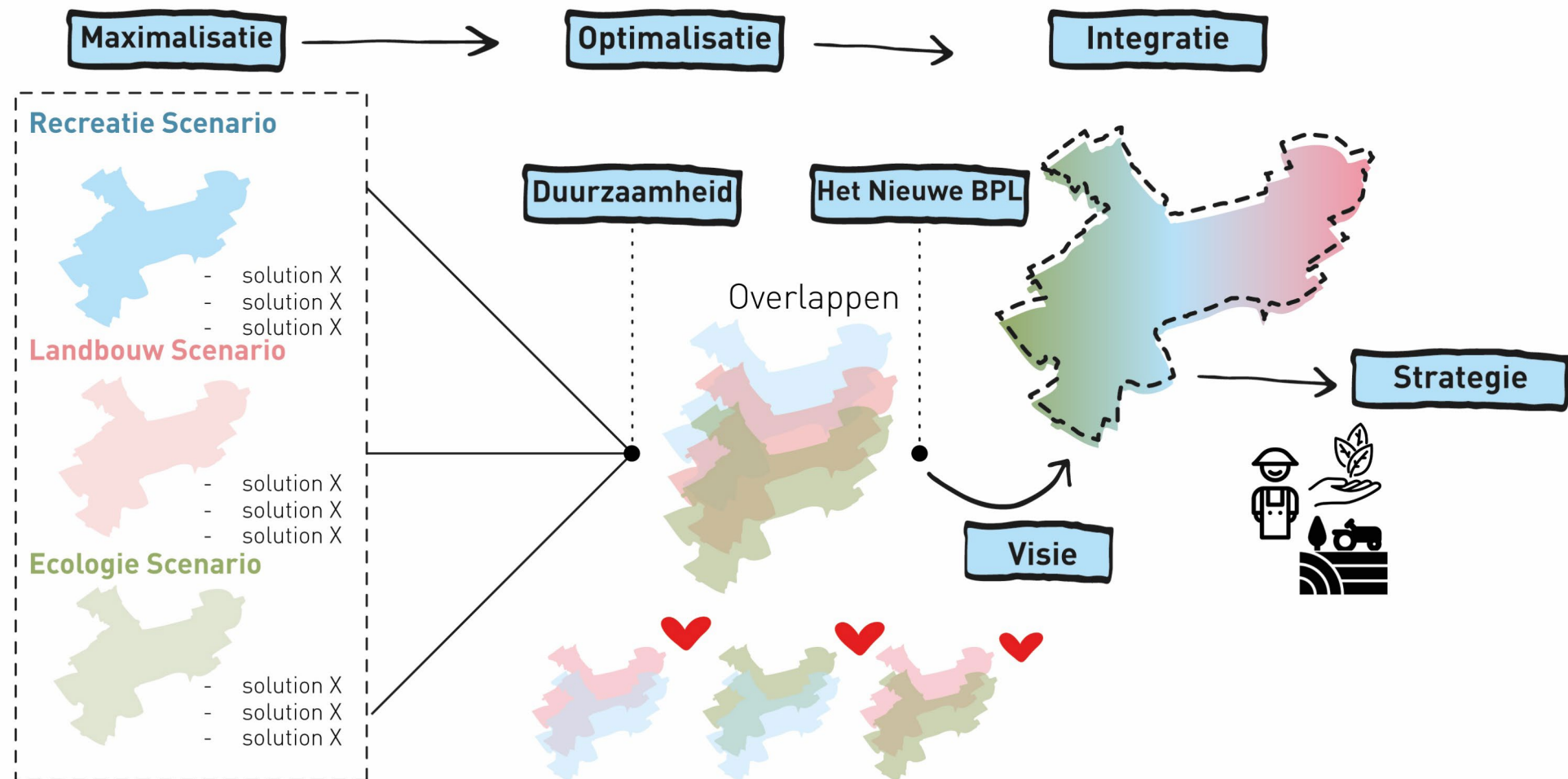
Ontwerp



Hoe zal Midden-Delfland eruit zien in 2070?

2070

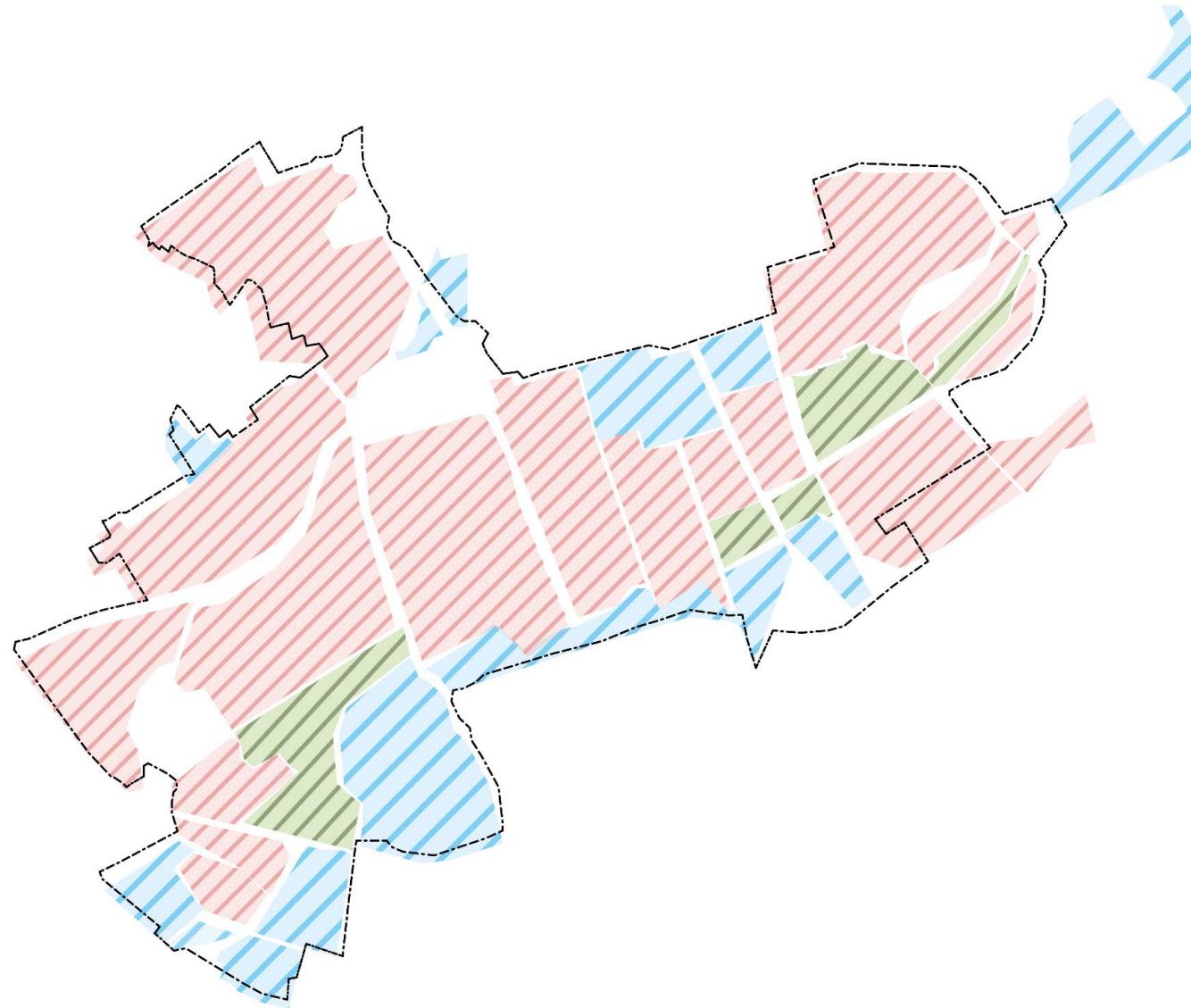




Landbouw

Ecologie

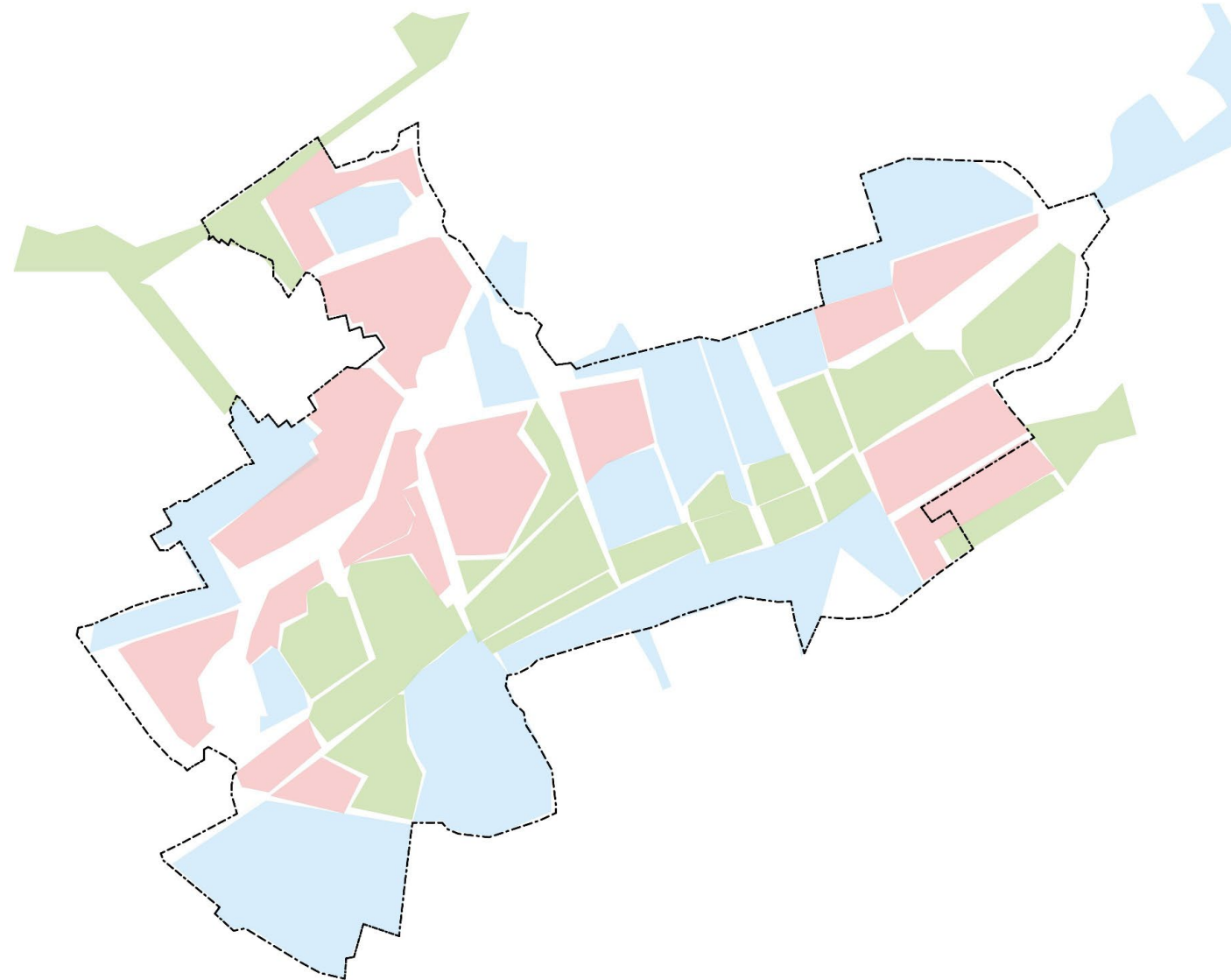
Recreatie



Landbouw

Ecologie

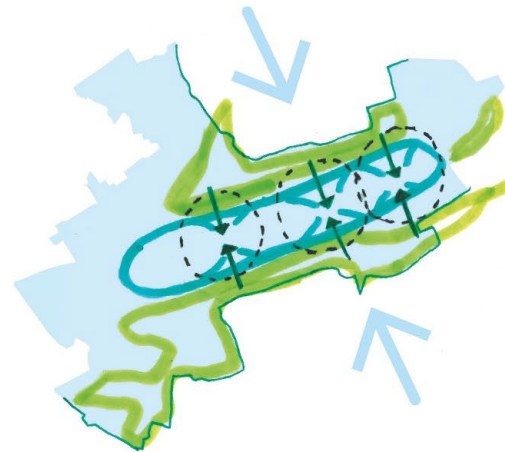
Recreatie



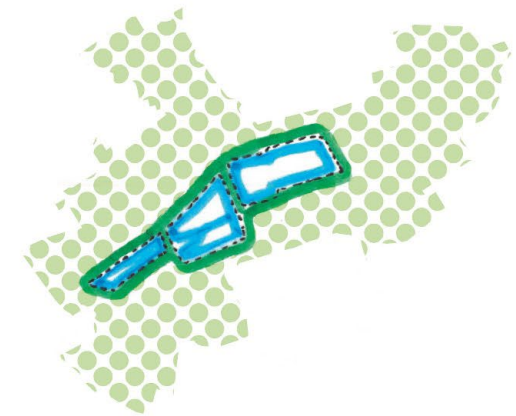
Op zoek naar synergie: Wat krijgt de meeste ruimte?

L

- Verandering van landgebruik met hoger waterpeil

R

- Intensieve recreatiegebieden breiden uit naar de kern

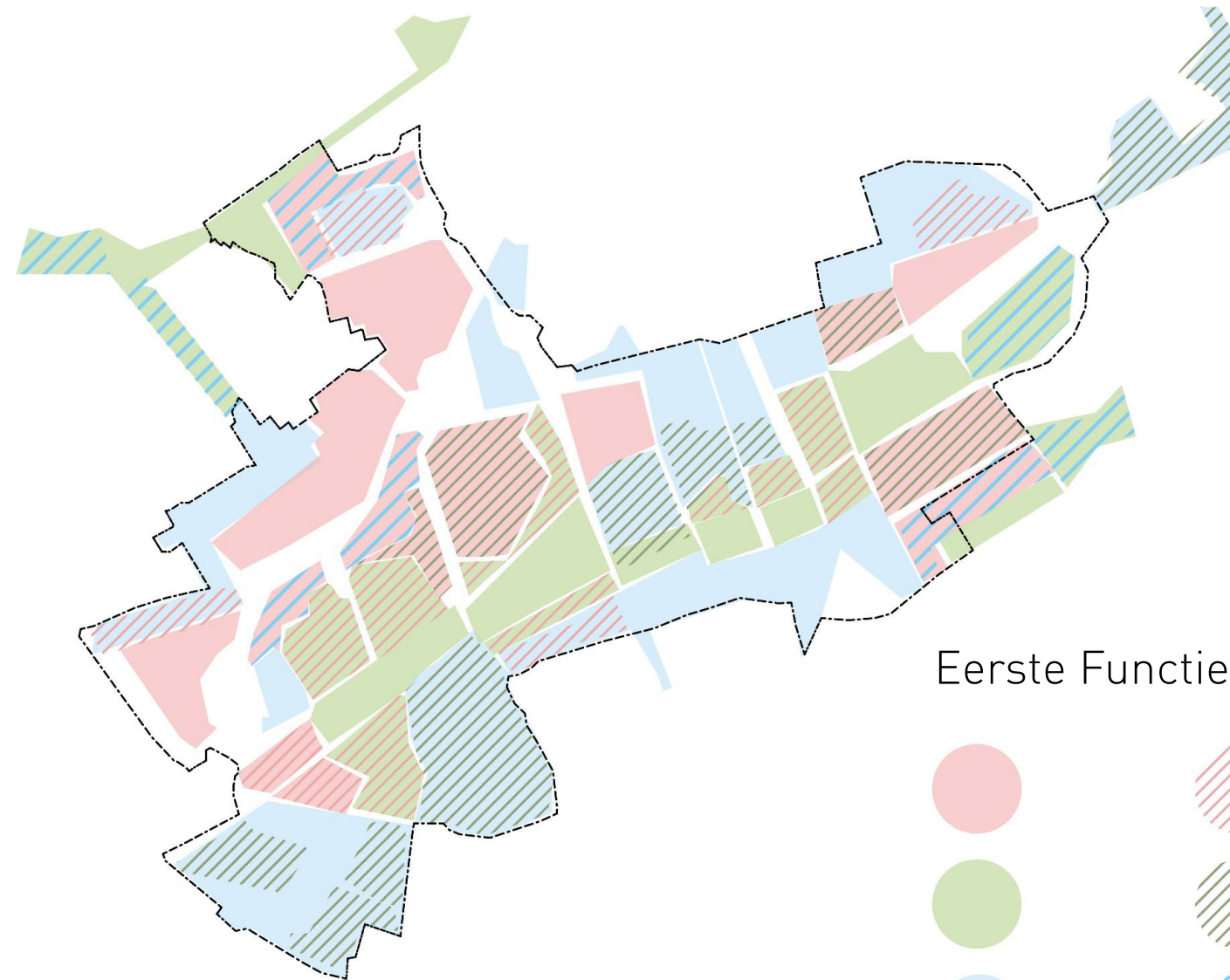
E

- Creëer een kerngebied van wilde natuur

Landbouw

Ecologie

Recreatie



Eerste Functie Tweede Functie



E



Maximalisatie Ecologie

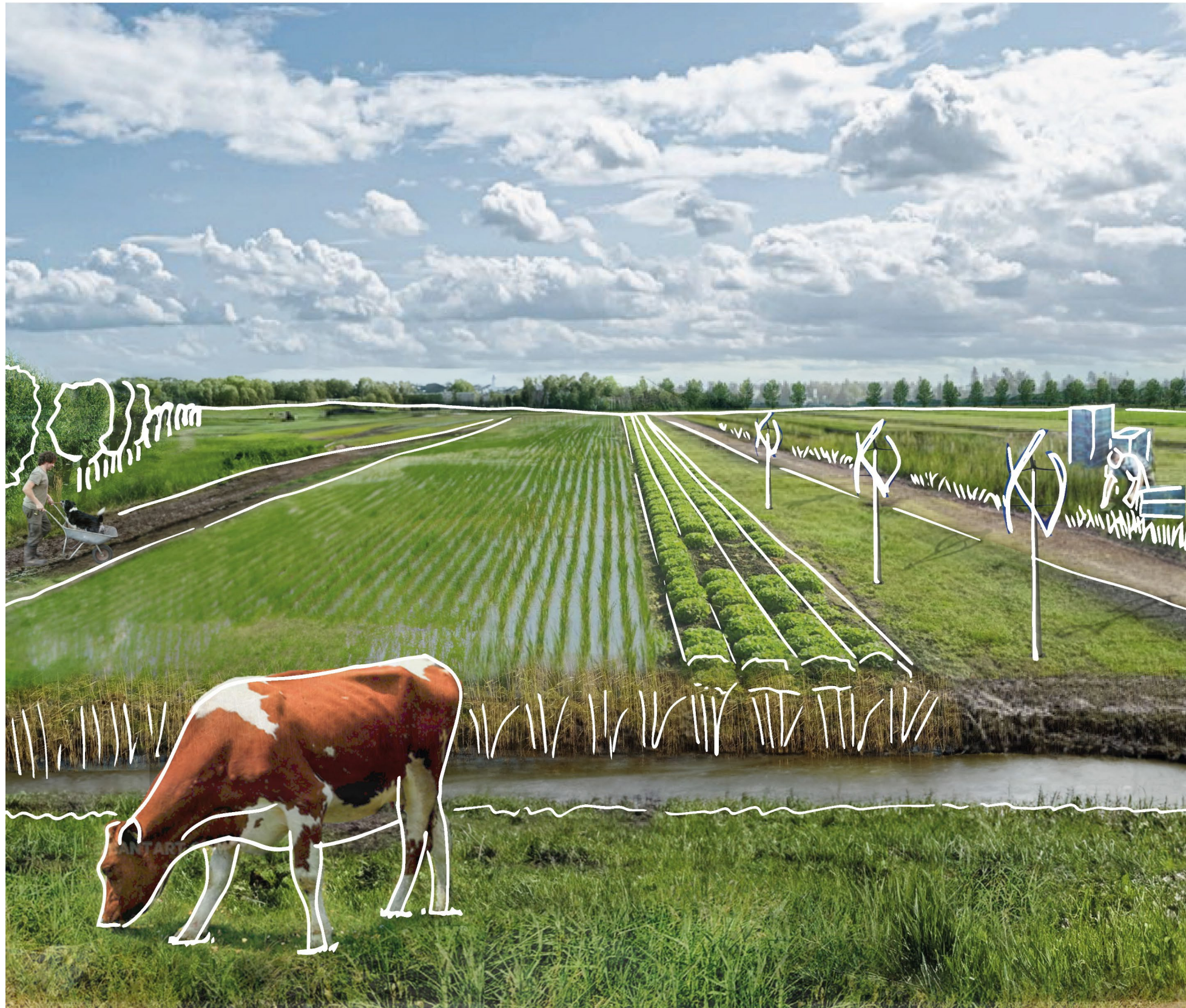
E

R



Synergie Ecologie + Recreatie

L



Maximalisatie Landbouw

L



E

Synergie Landbouw + Ecologie

R



Maximalisatie Recreatie

R

L



Synergie Recreatie + Landbouw







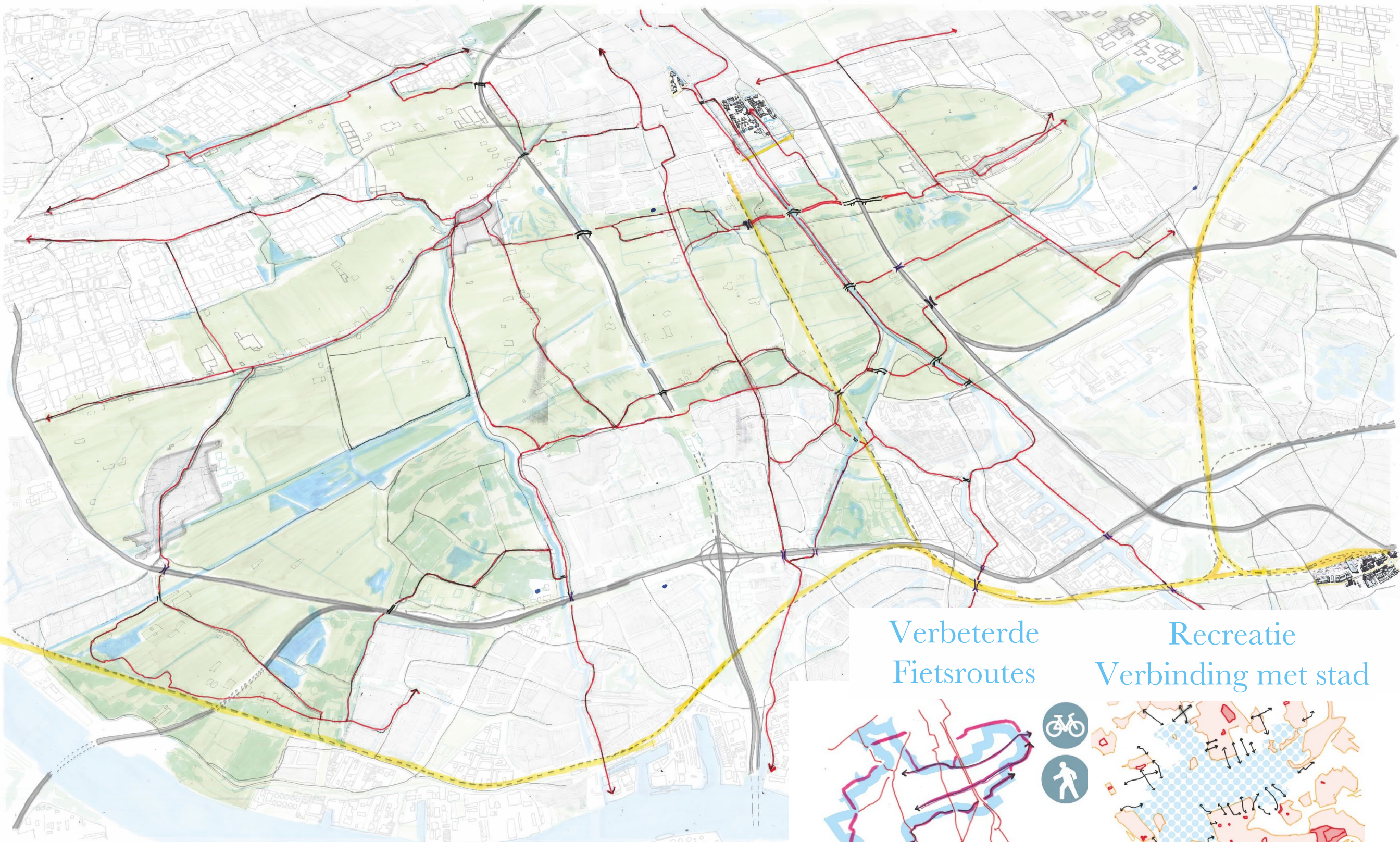
Landbouw



Connectiviteit,
Diversiteit

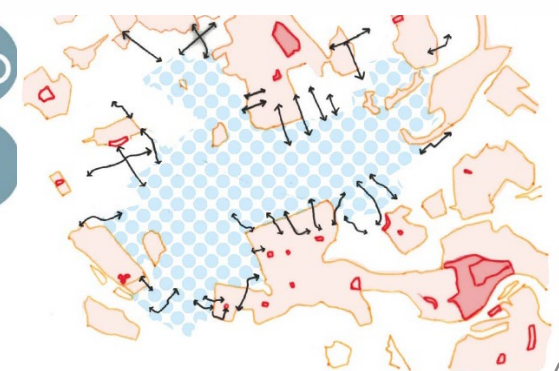
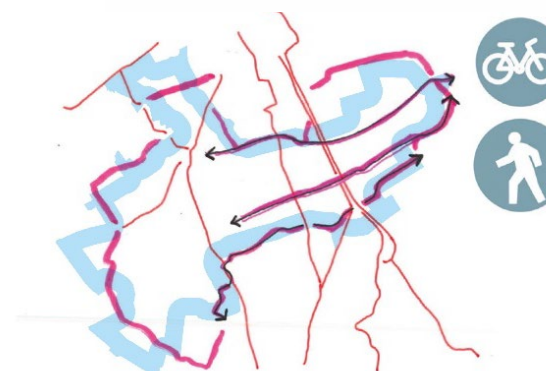
Herstel
Veenlandschappen

Ecologie

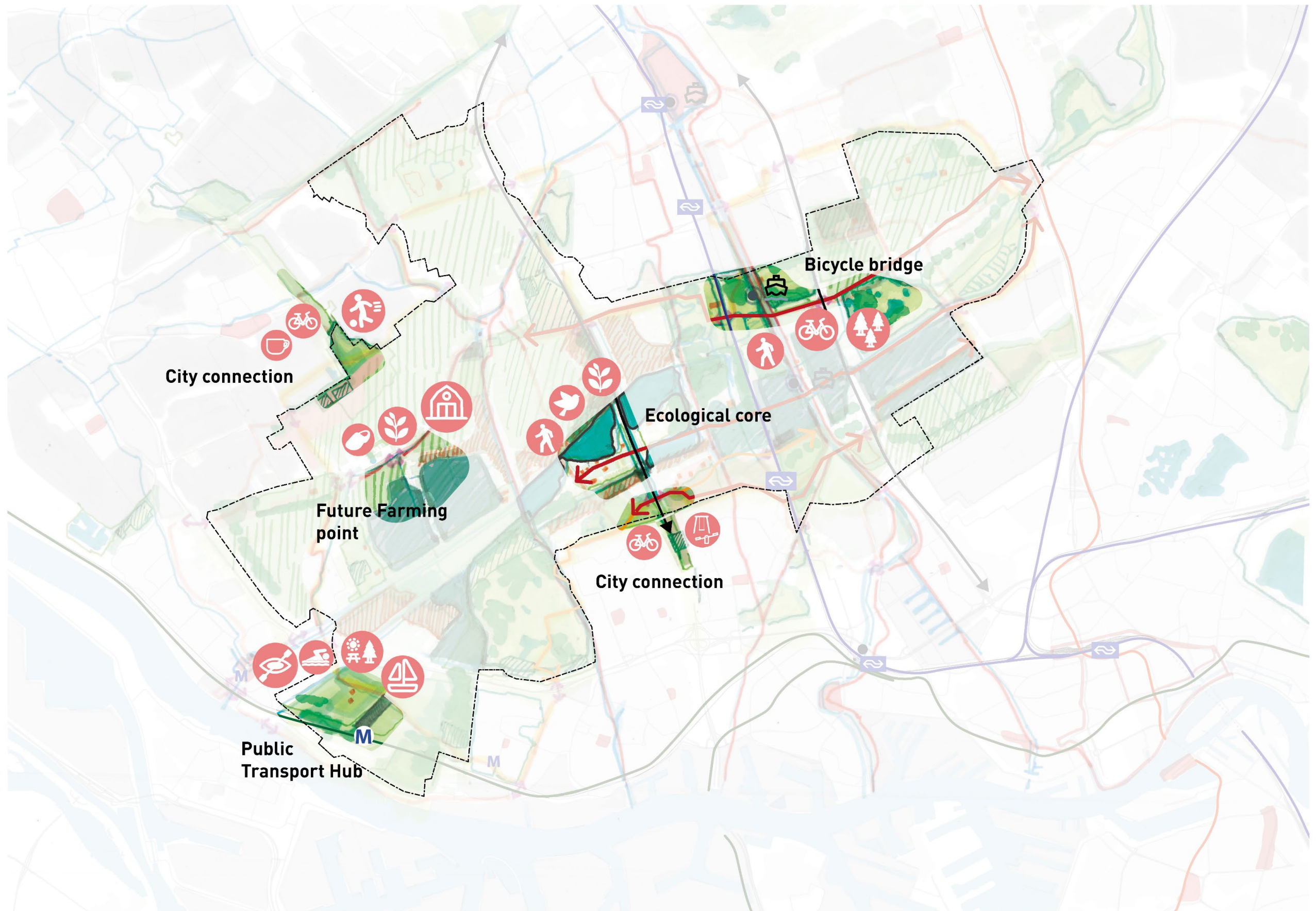


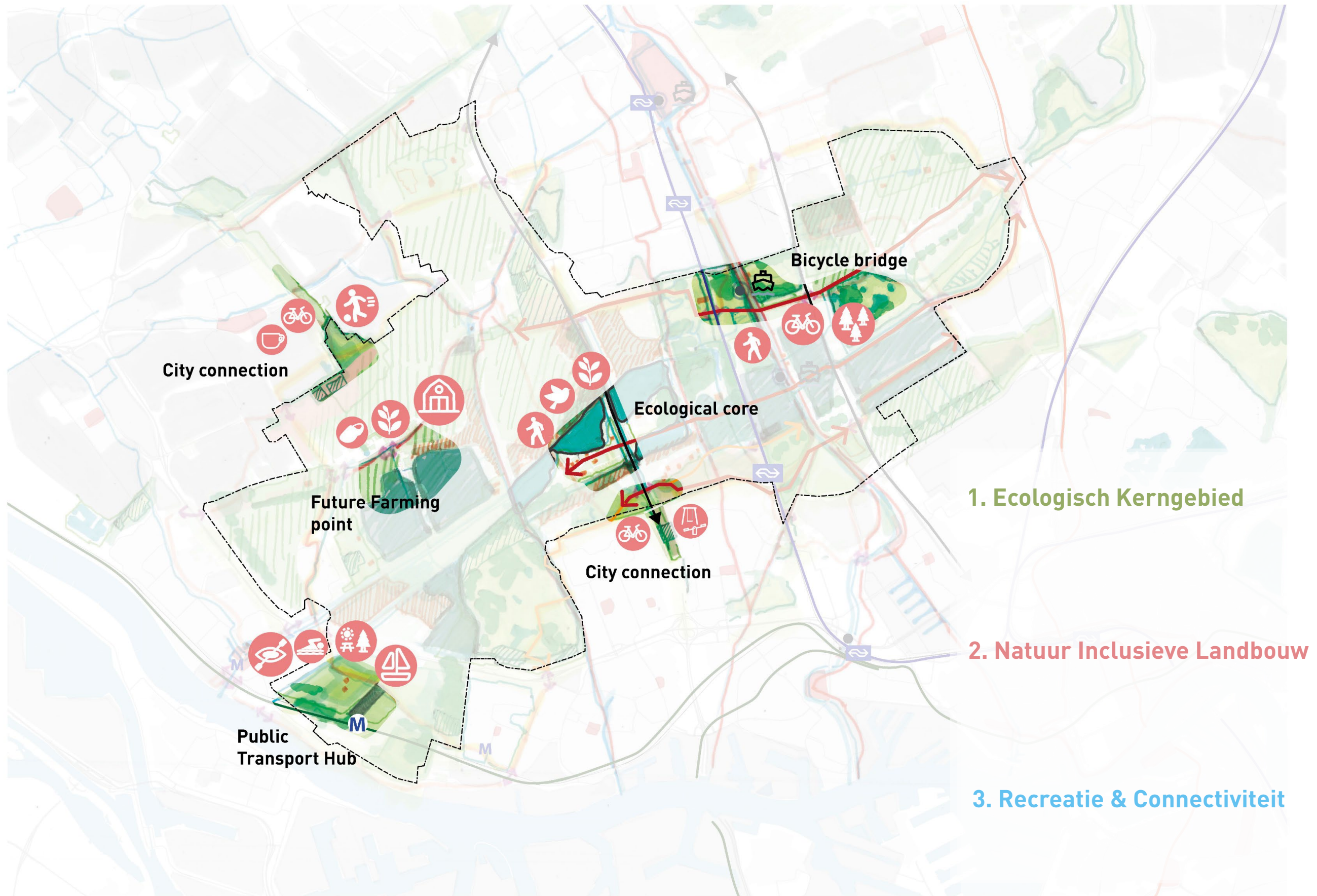
Verbeterde
Fietsroutes

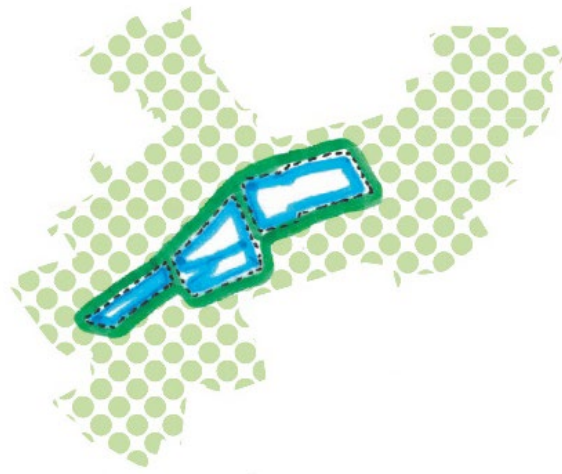
Recreatie
Verbinding met stad



Recreatie

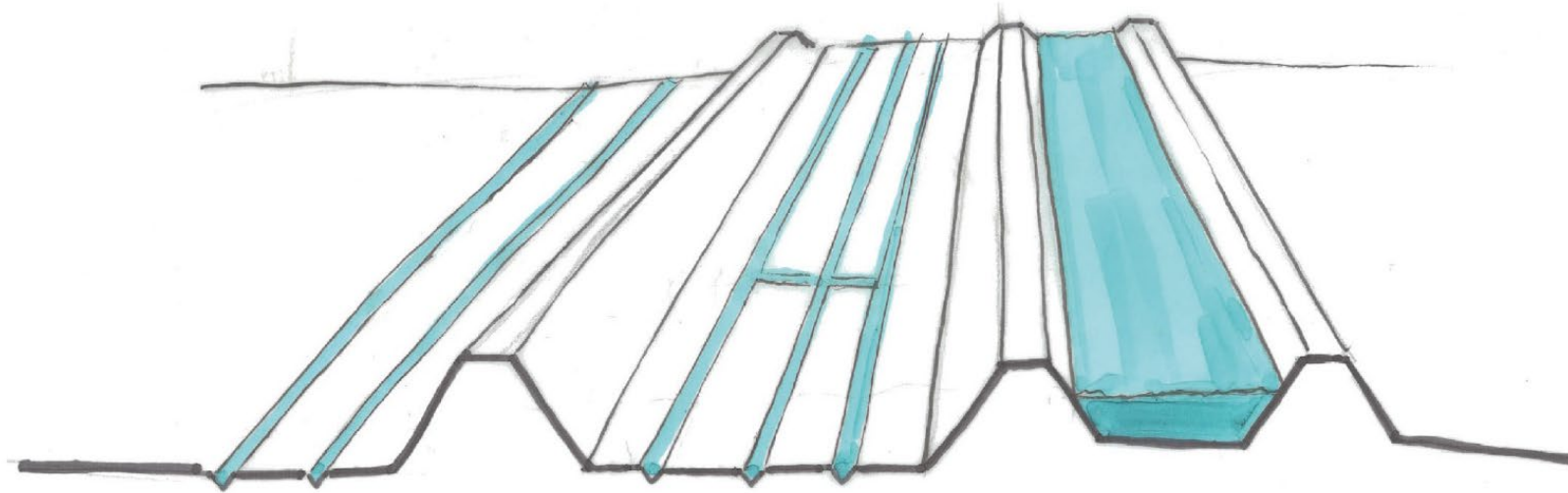




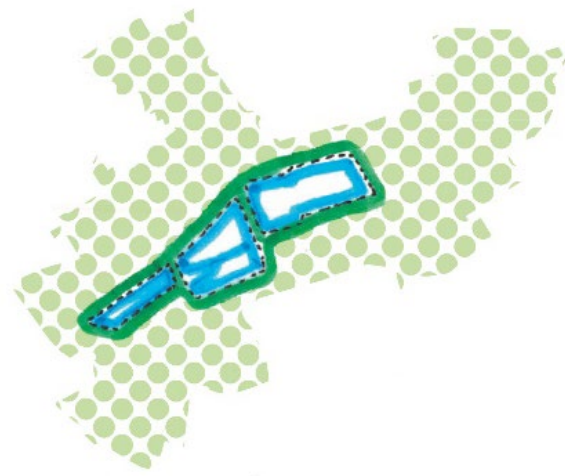


Locatie

Huidig

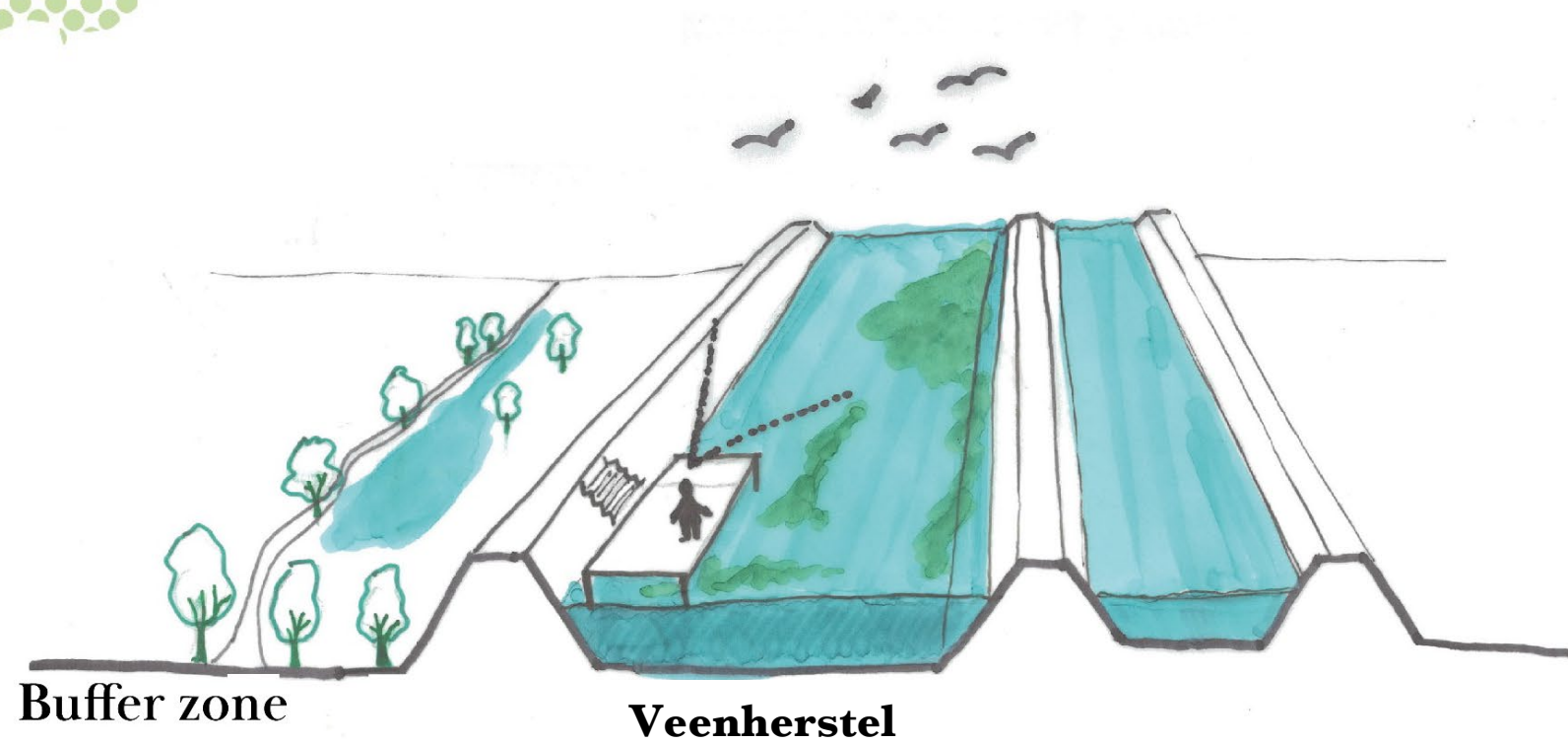


Polderlandschap



Locatie

Nieuw





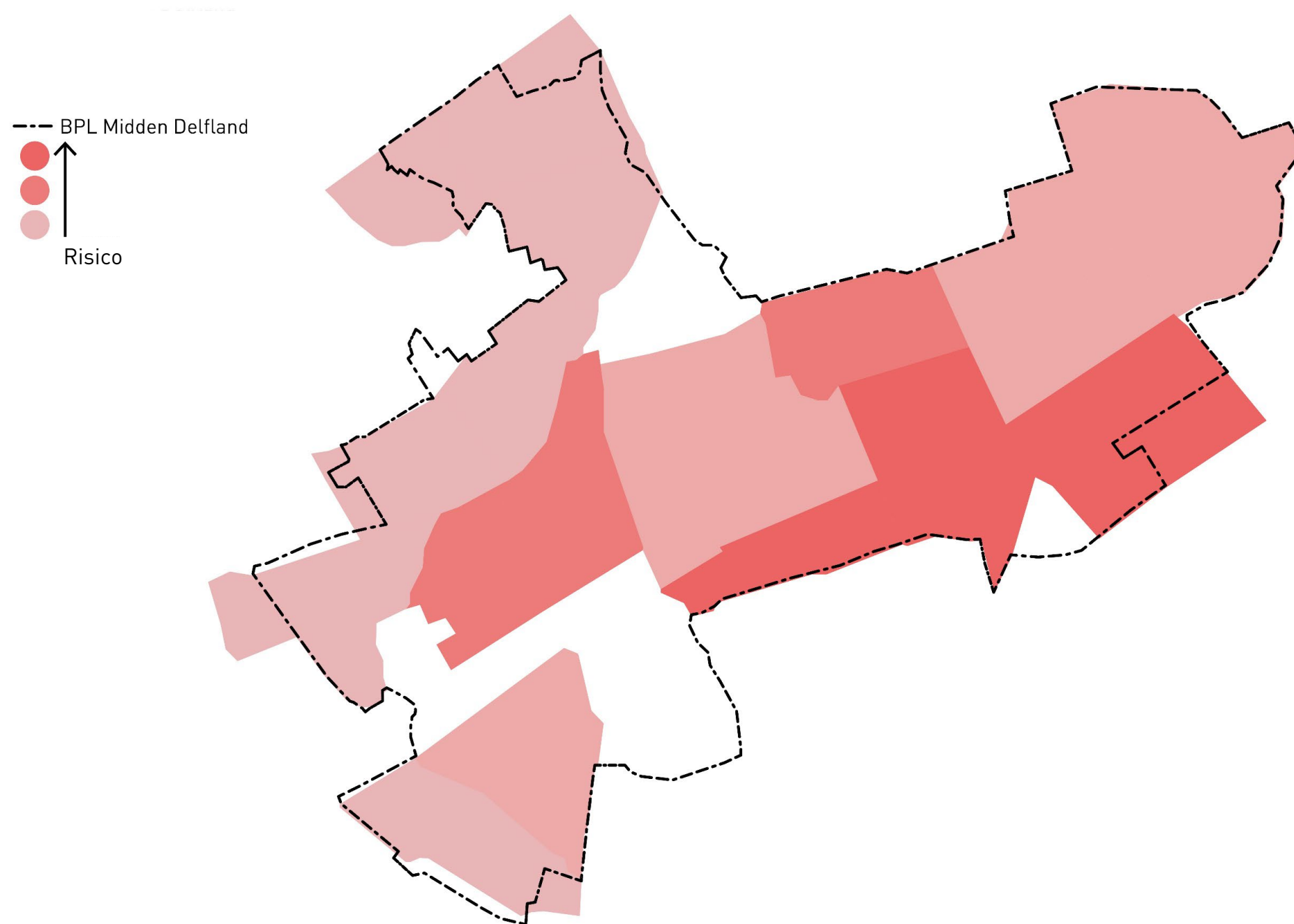
1. Ecologisch Kerngebied

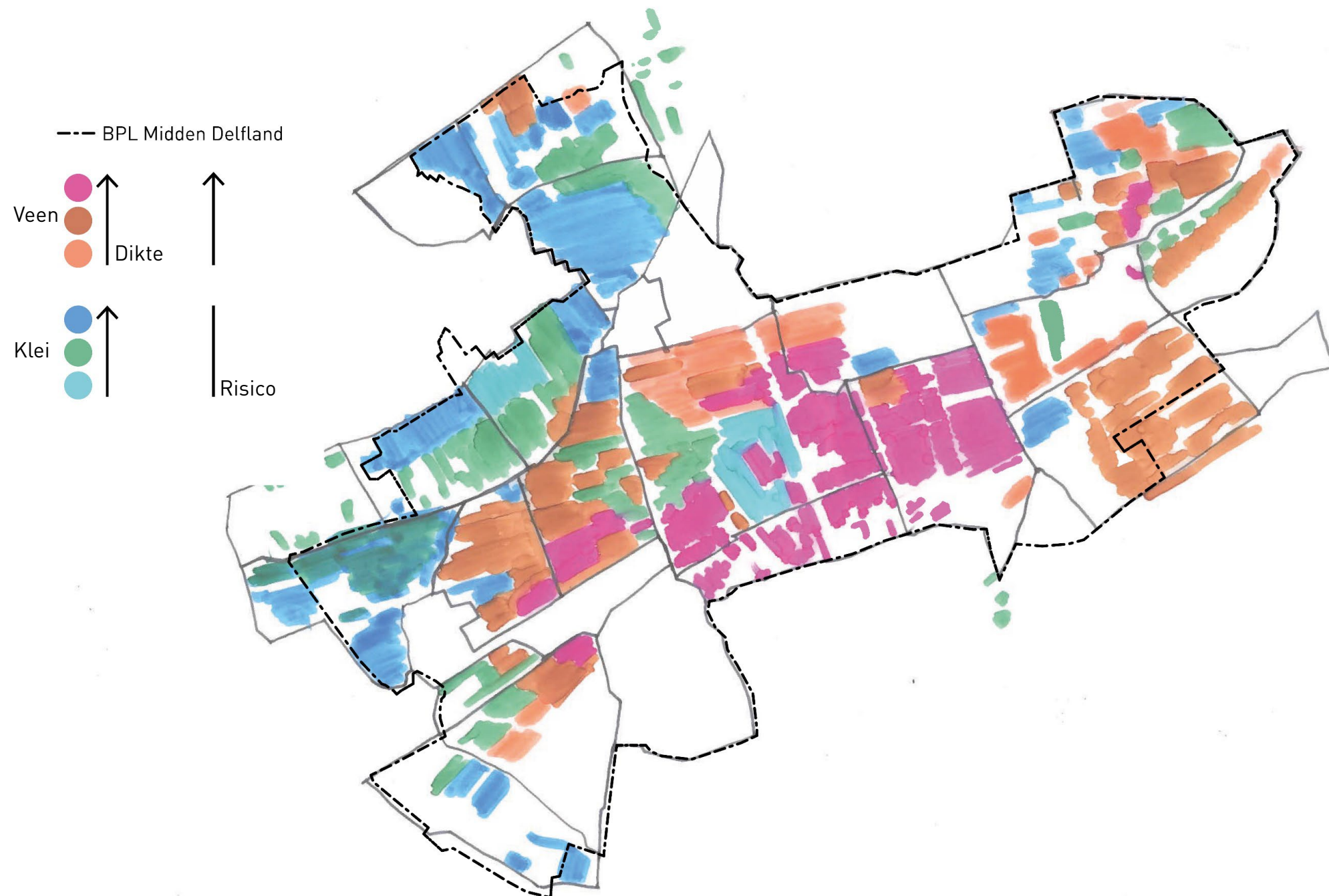


1. Ecologisch Kerngebied



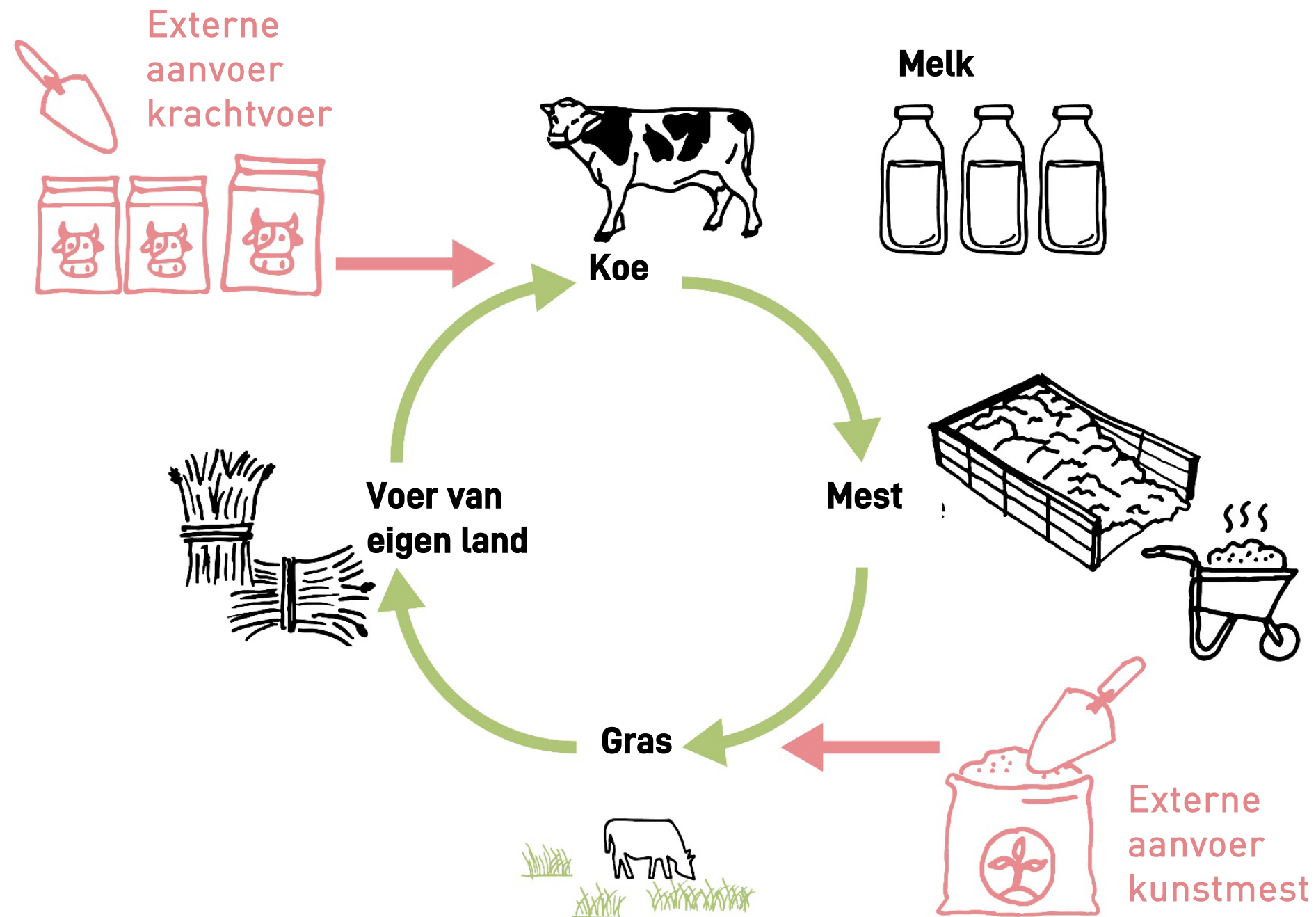
1. Ecologisch Kerngebied – verandering door de tijd





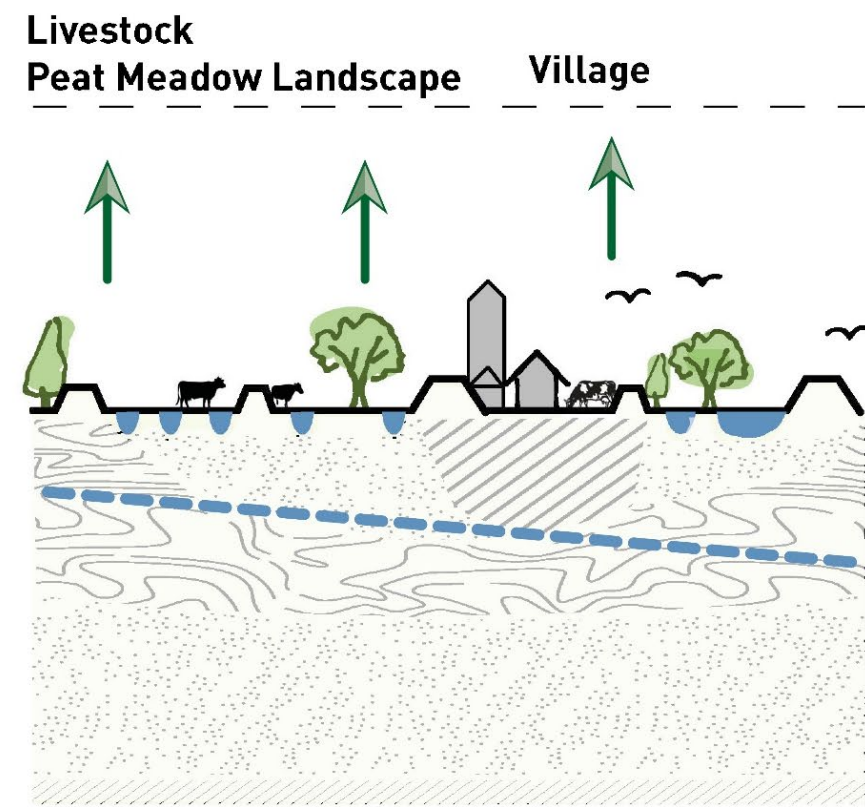
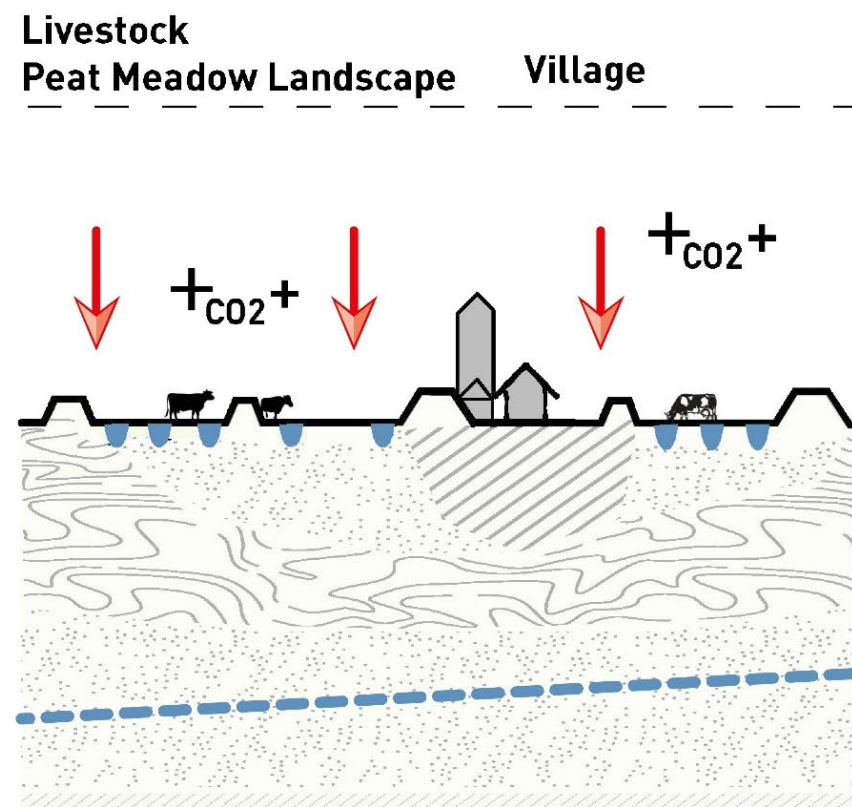


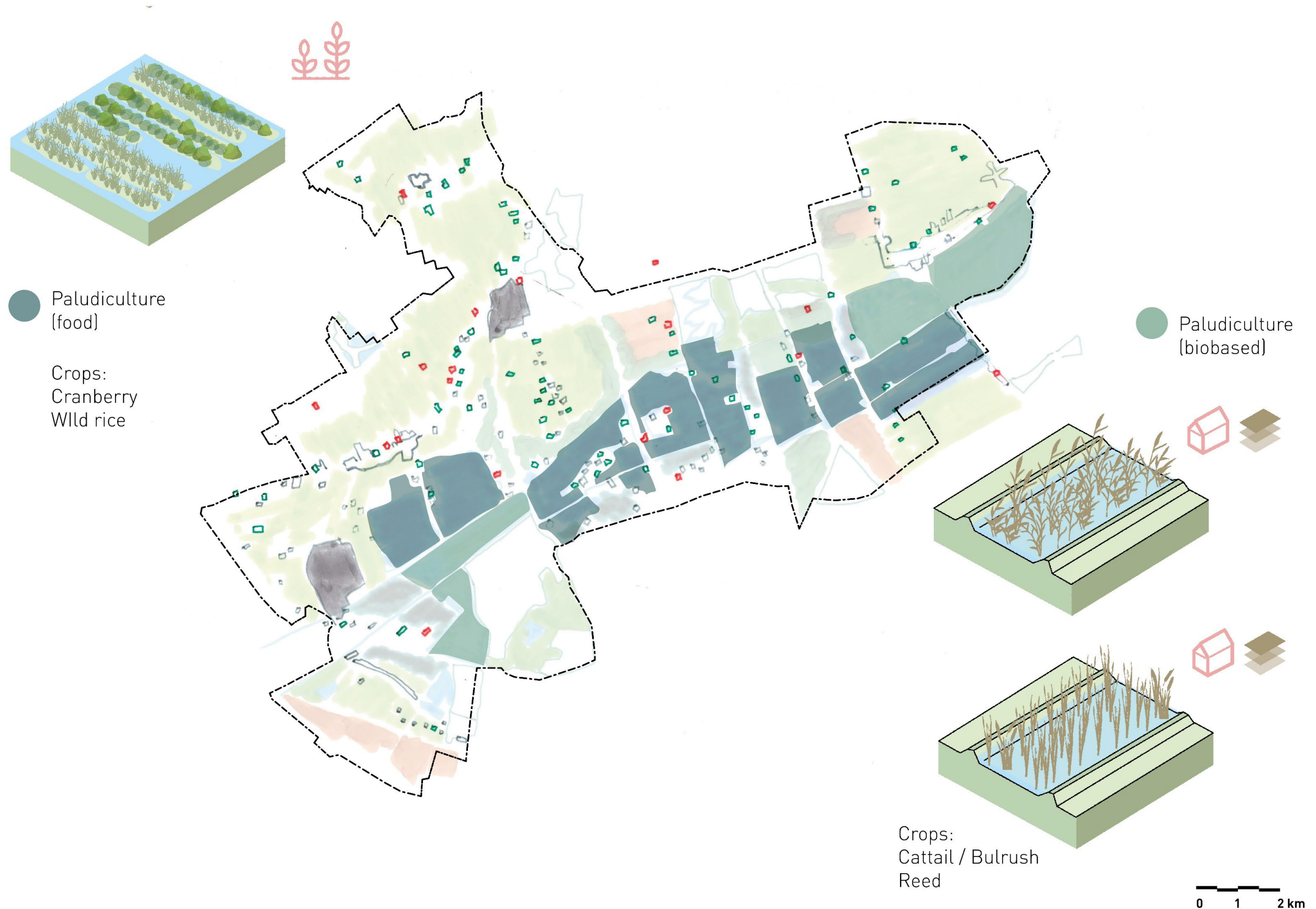
2. Natuur Inclusieve Landbouw – Kringlooplandbouw & Veeteelt



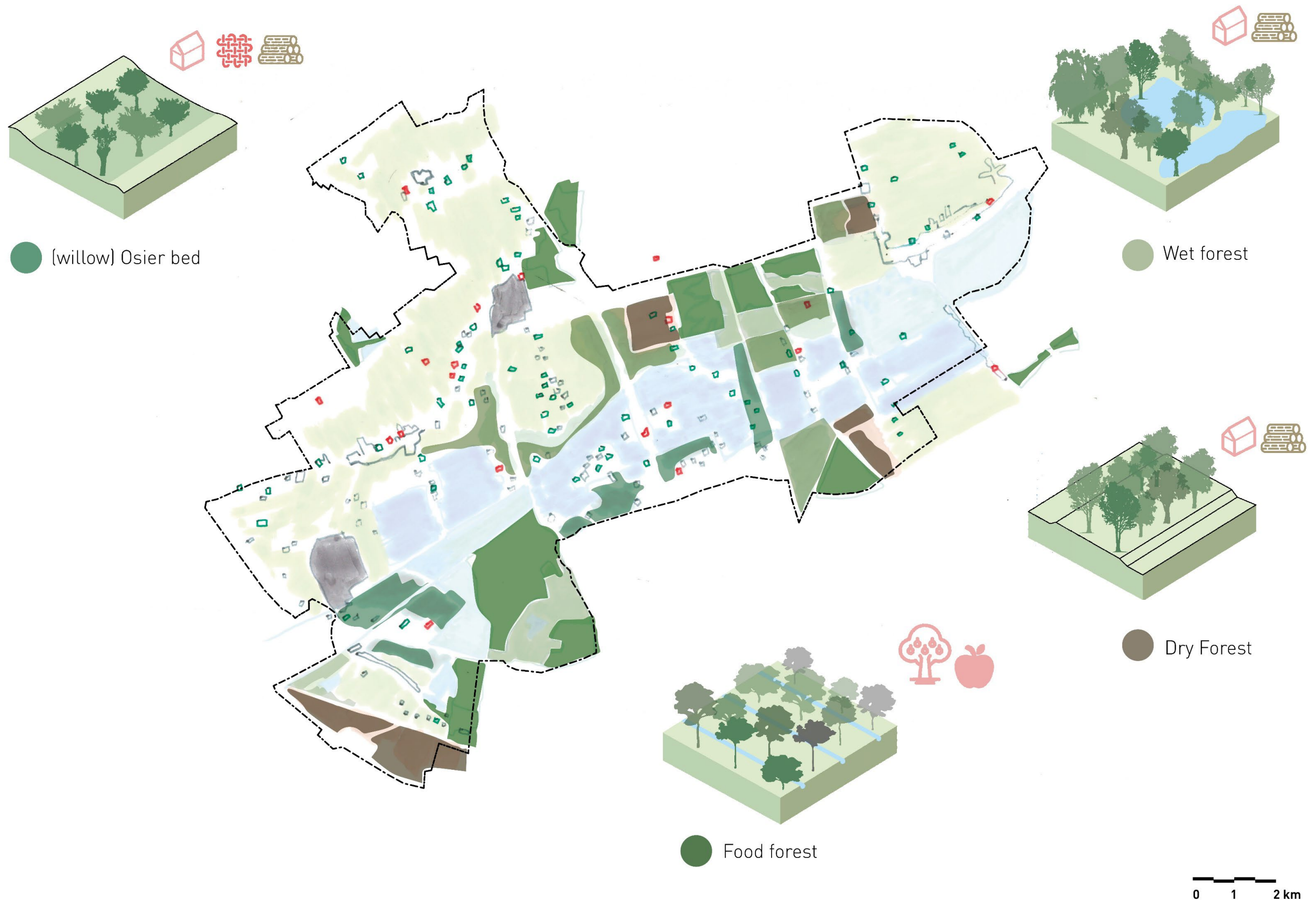
2. Natuur Inclusieve Landbouw – Kringlooplandbouw & Veeteelt

Waterpeil gaat omhoog



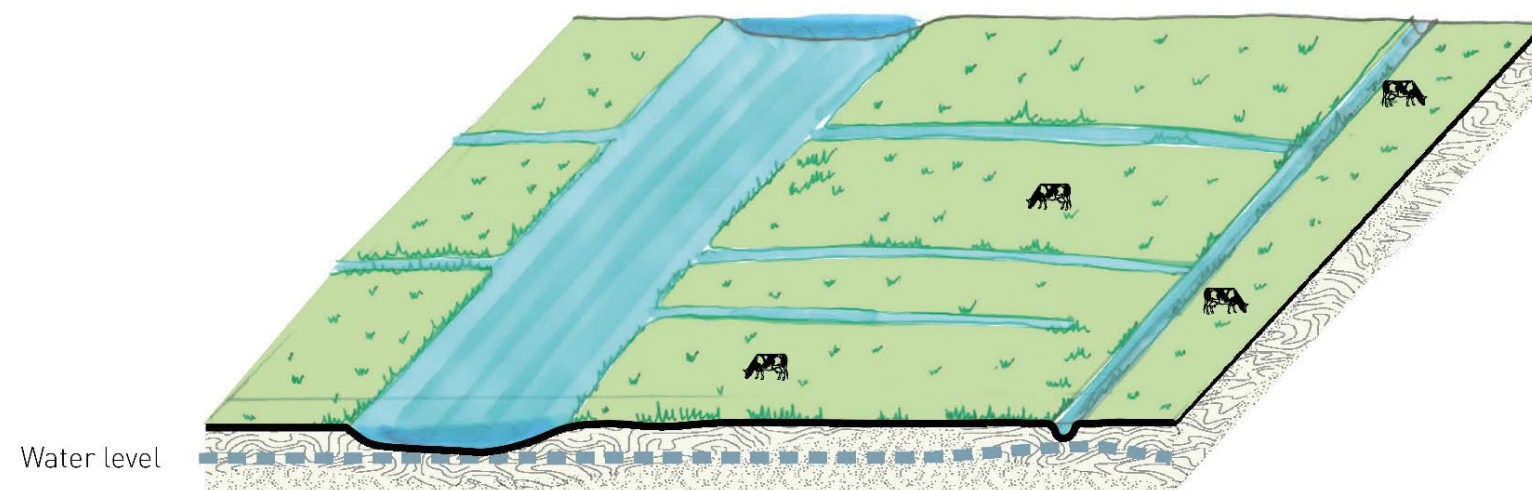
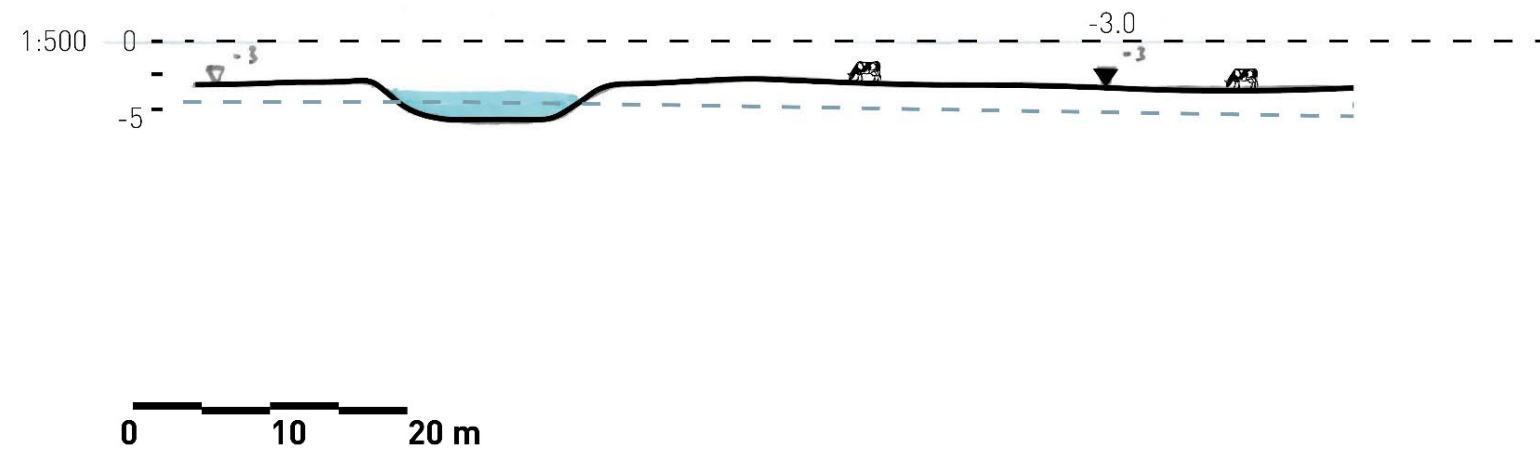
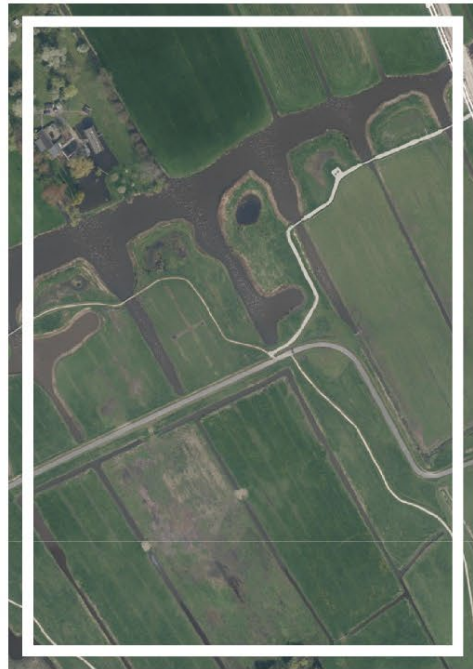


2. Natuur Inclusieve Landbouw – Paludicultuur

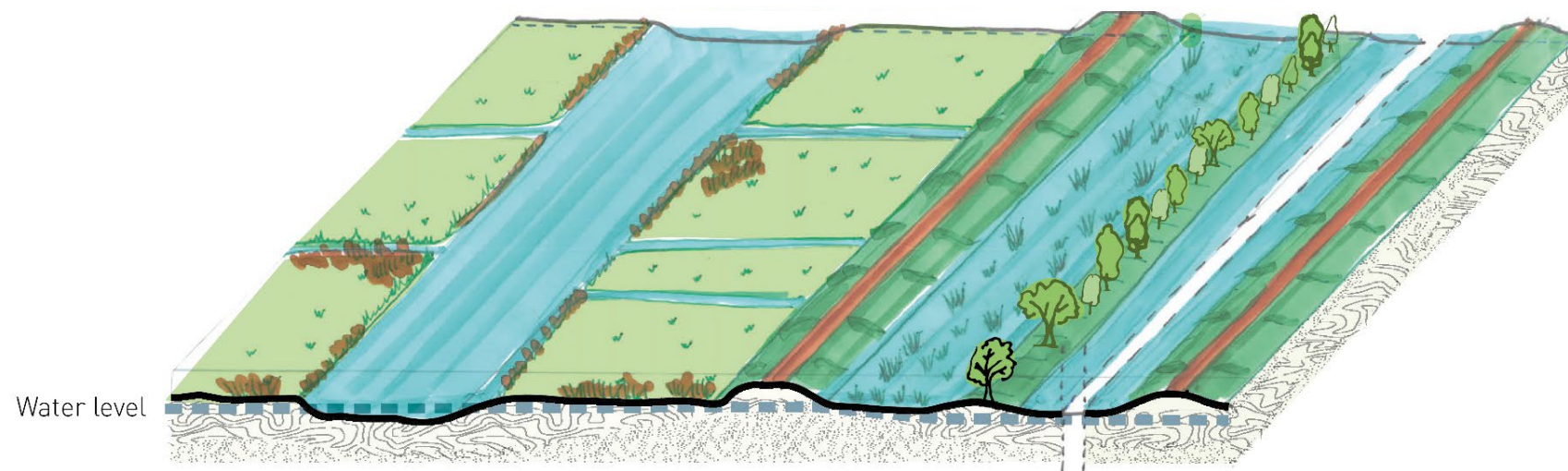
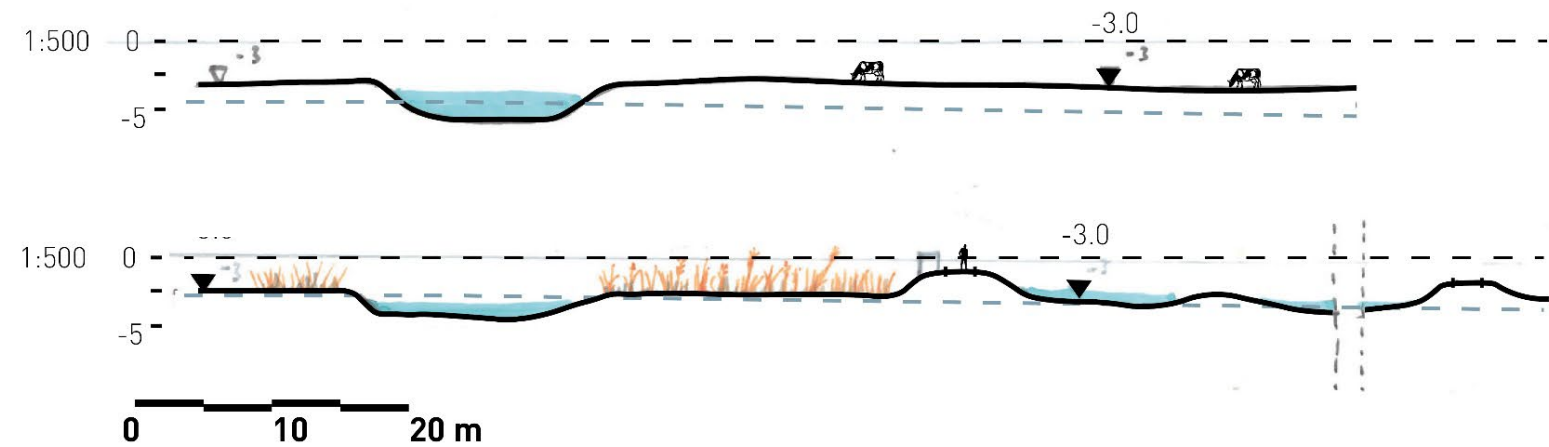
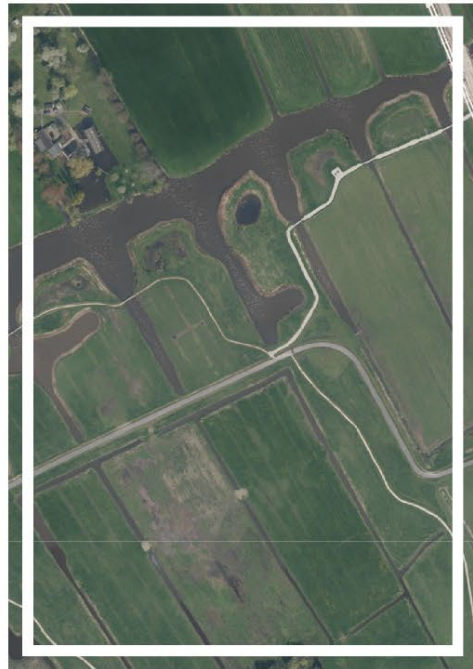


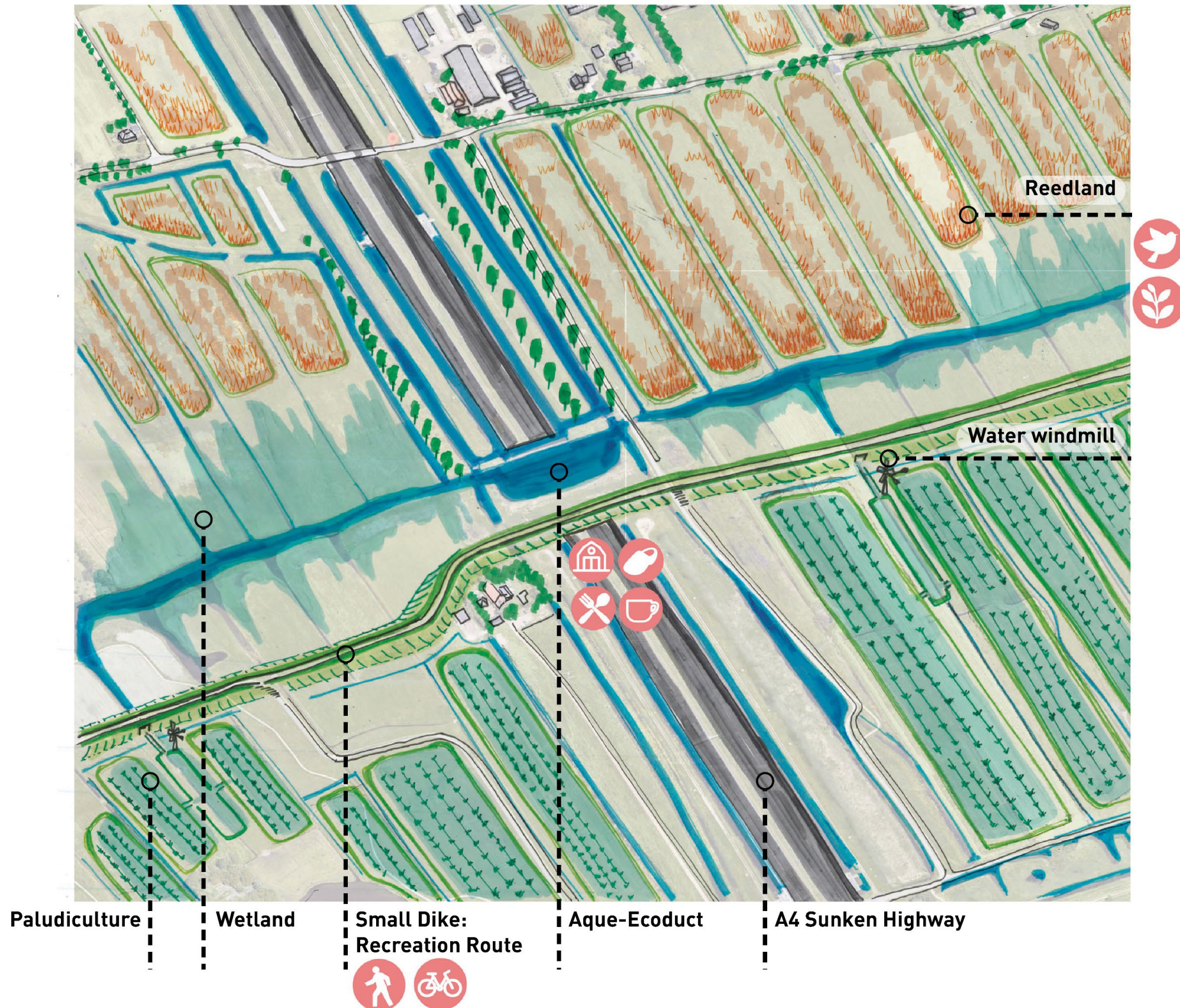
2. Natuur Inclusieve Landbouw – Agroforestry

Huidig



Nieuw



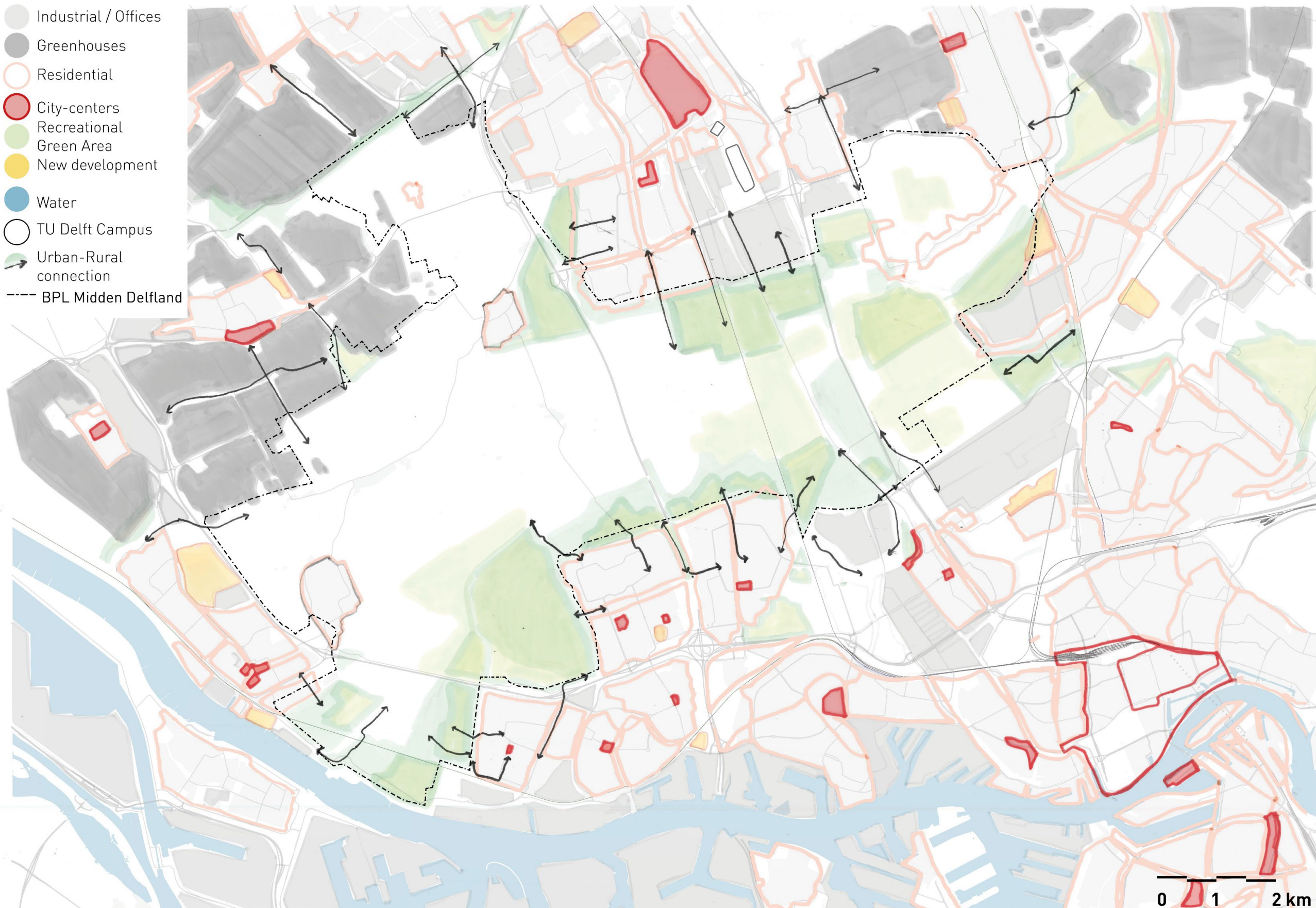


2. Natuur Inclusieve Landbouw – Een productief nat landschap



3. Recreatie & Connectiviteit

- Industrial / Offices
- Greenhouses
- Residential
- City-centers
- Recreational
- Green Area
- New development
- Water
- TU Delft Campus
- Urban-Rural connection
- BPL Midden Delfland



3. Recreatie & Connectiviteit – Verbinding stad - land

Water

Water connections

Water network

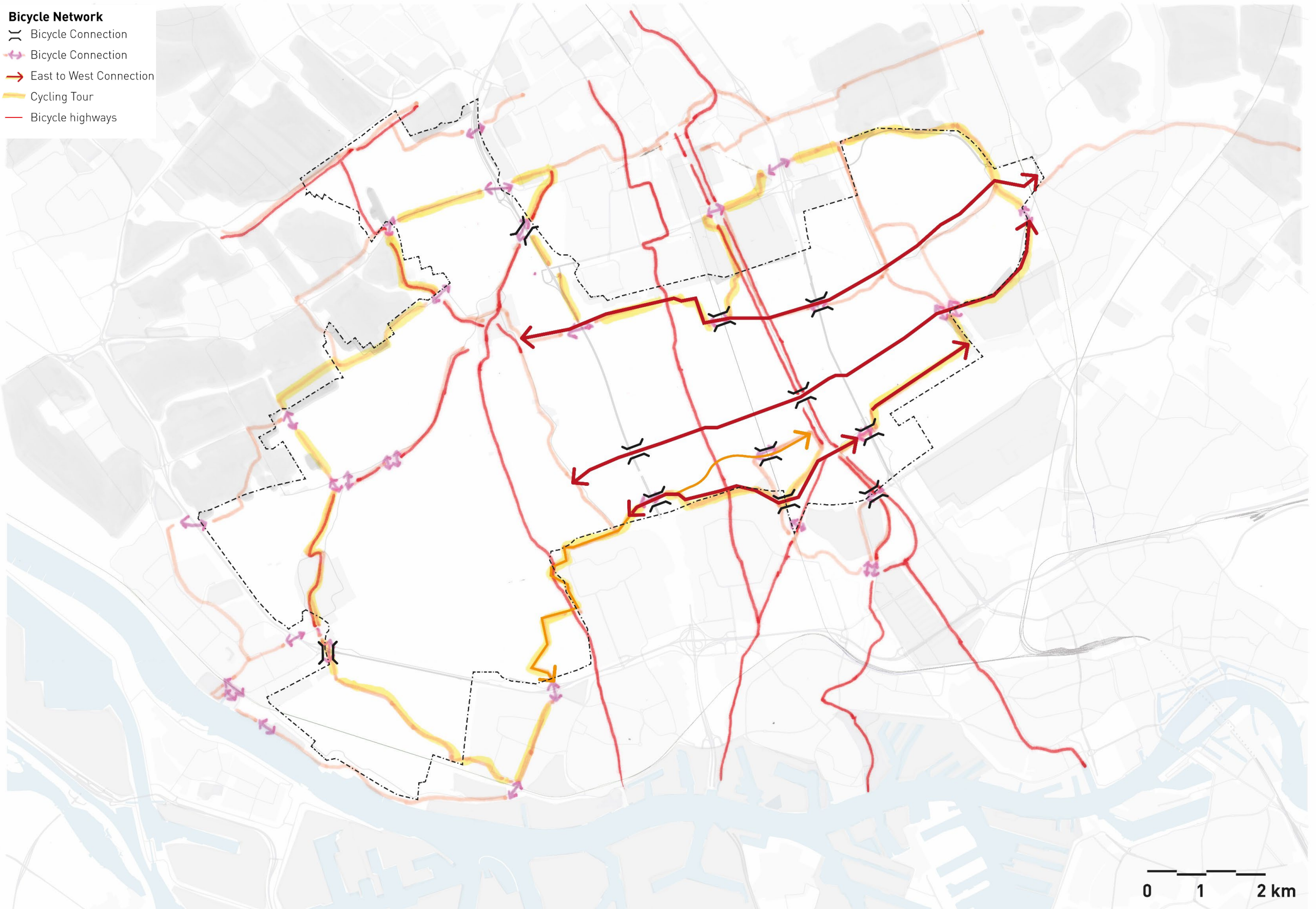
Maas River



3. Recreatie & Connectiviteit – Water recreatie in de kern

Bicycle Network

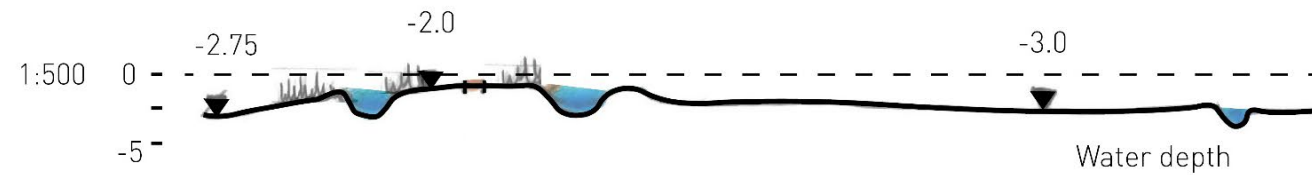
-  Bicycle Connection
-  Bicycle Connection
-  East to West Connection
-  Cycling Tour
-  Bicycle highways



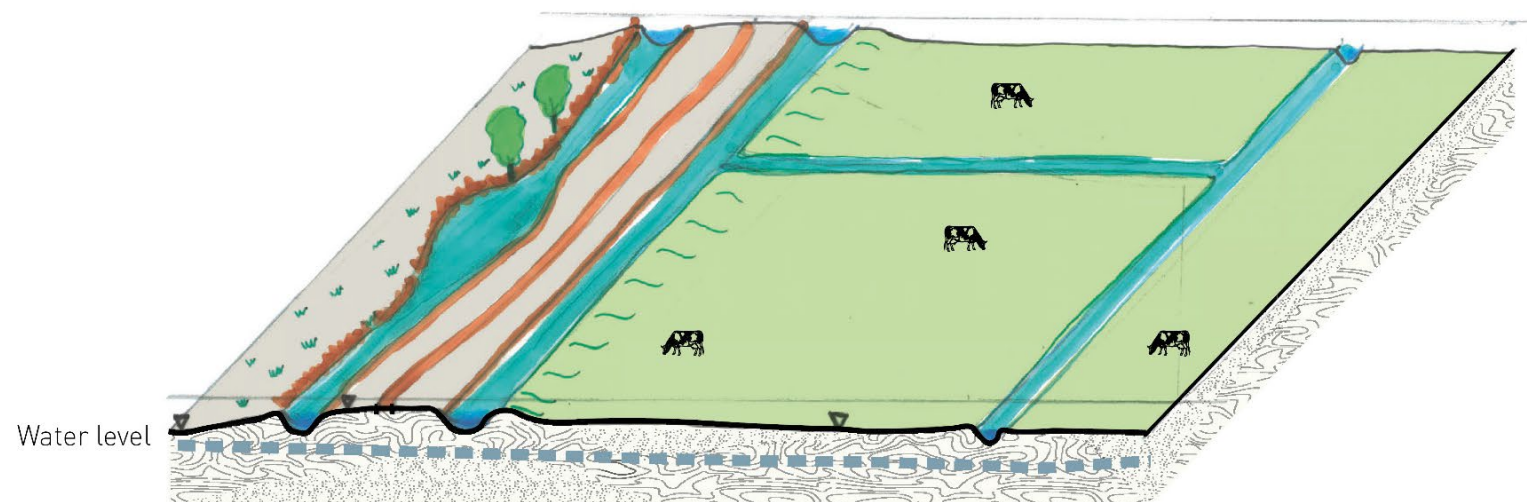
3. Recreatie & Connectiviteit – Verbeterd fietsnetwerk



Huidig



0 10 20 m

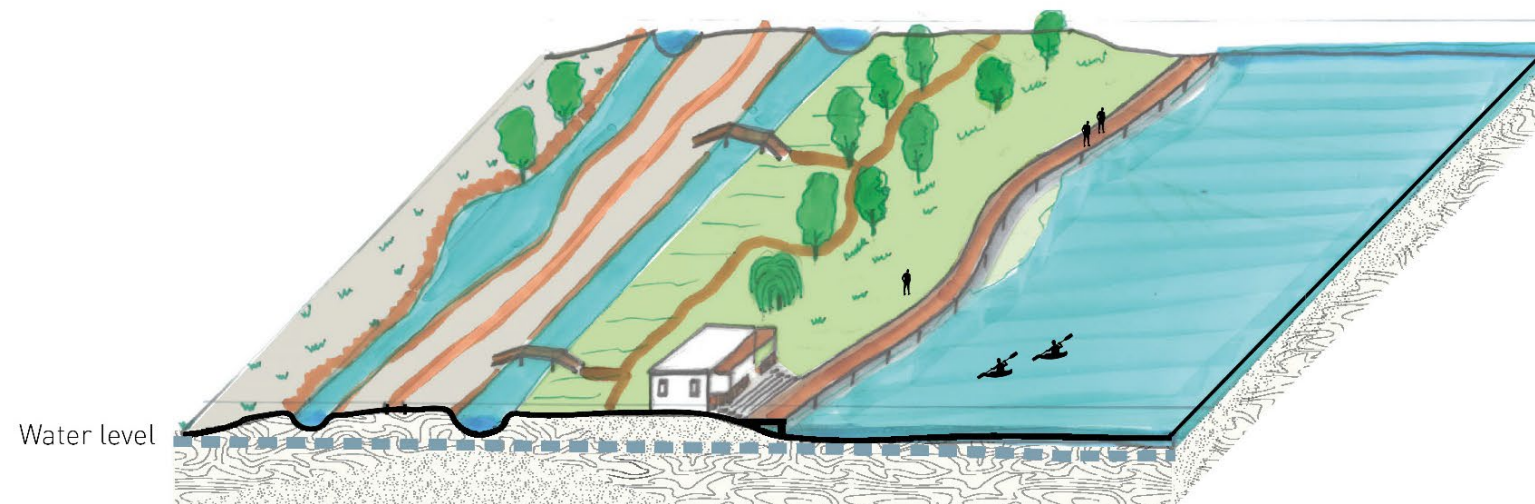
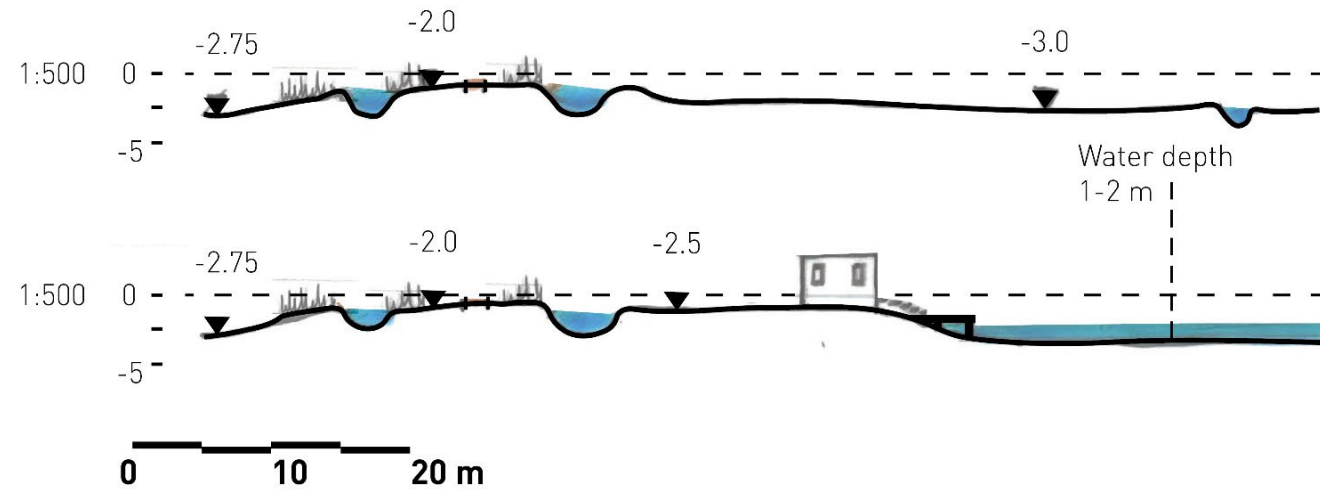


Locatie





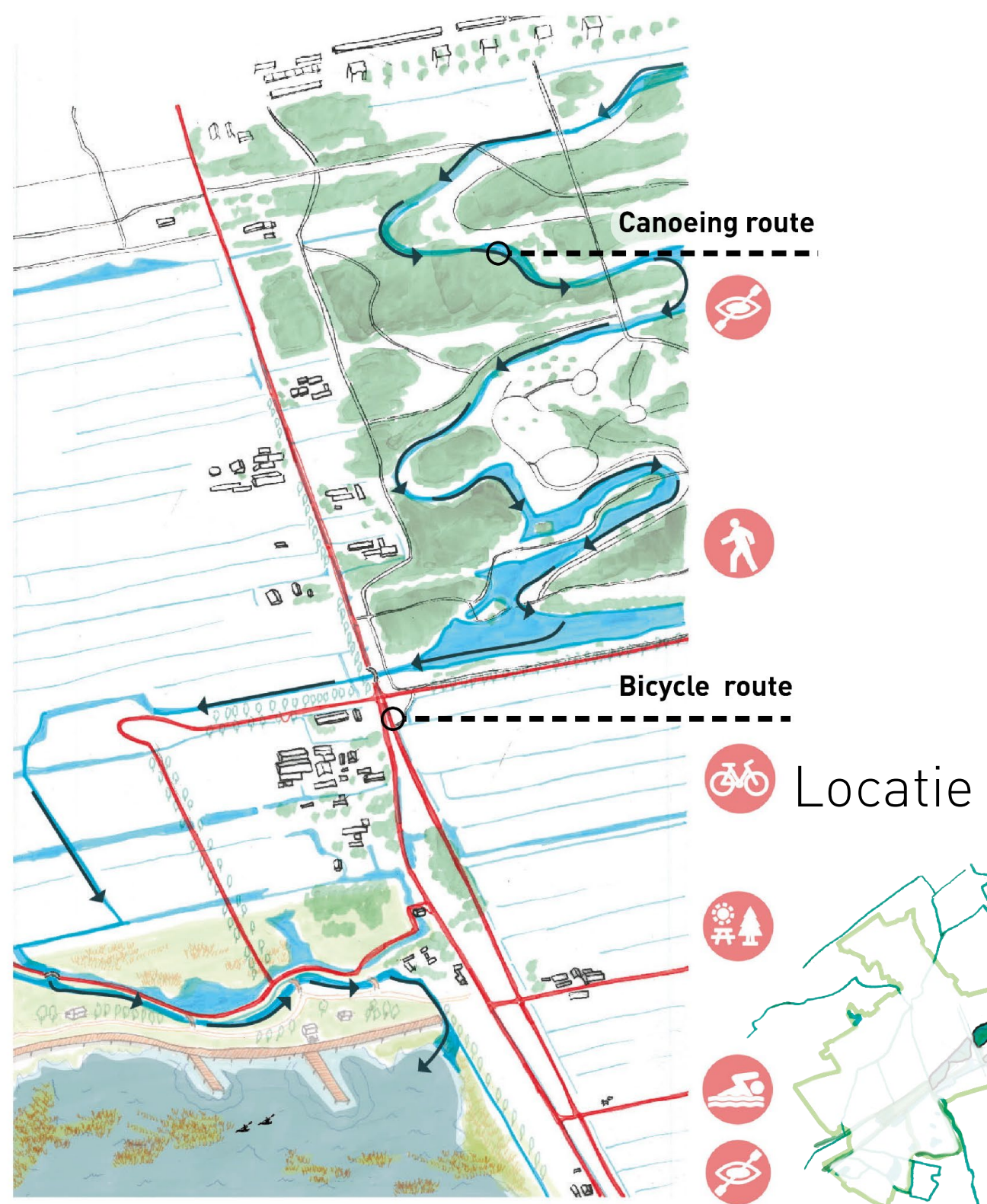
Nieuw



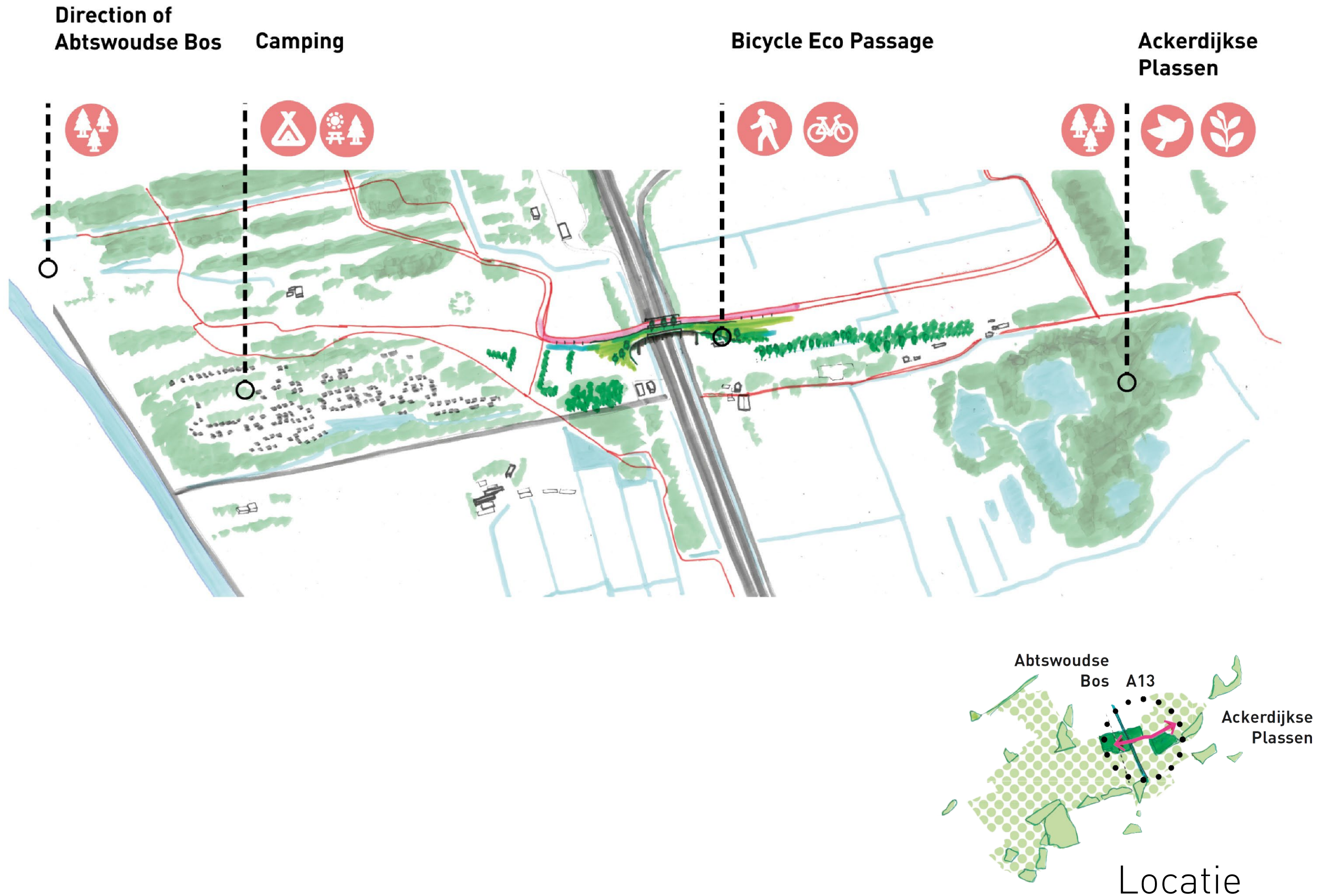
Locatie



City edge of Delft



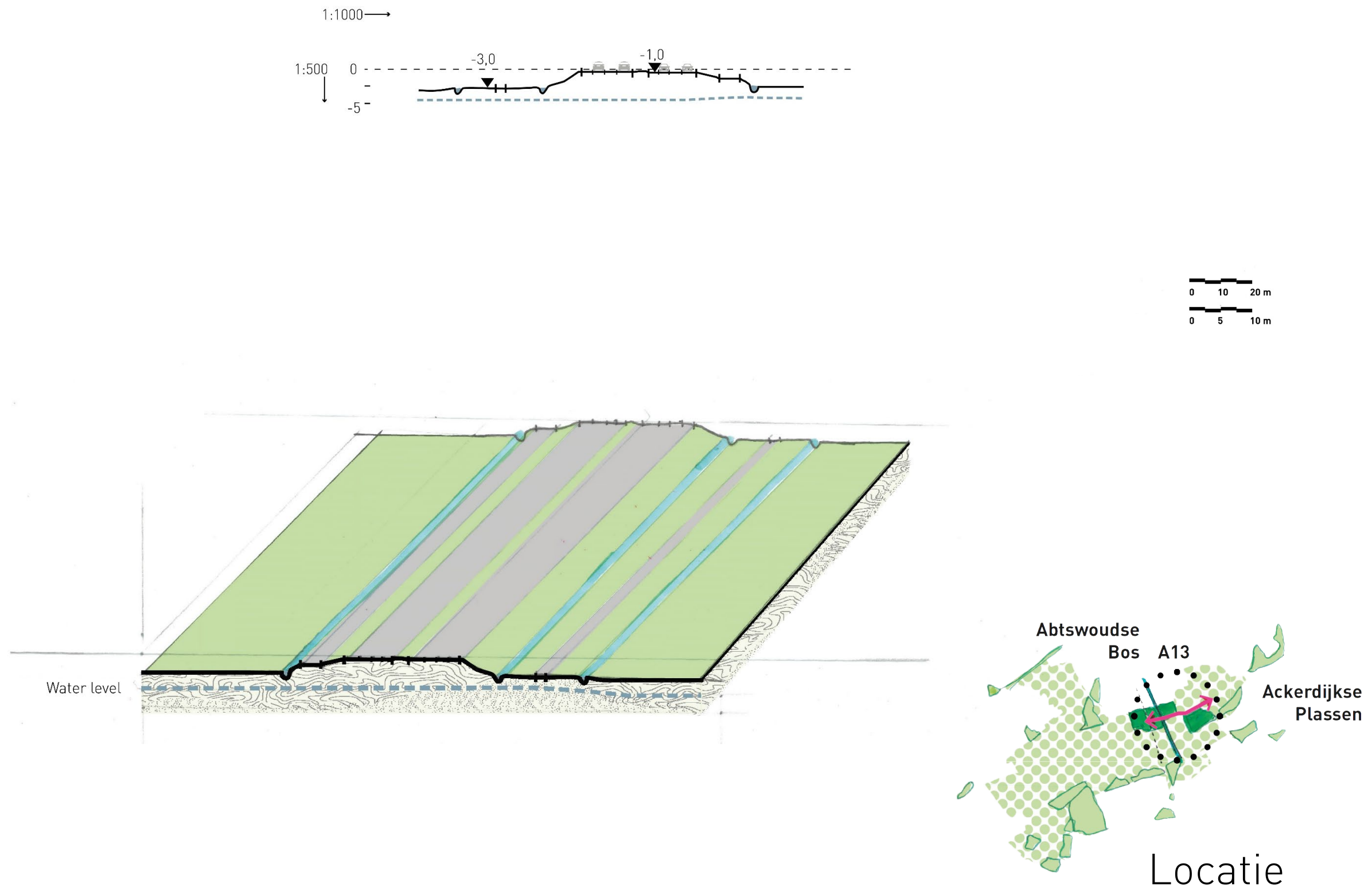
3. Kanoverbinding & Waterrecreatie - Visualisatie



3. Connectiviteit – Fietsecoduct over de A13 – Visualisatie

Huidig

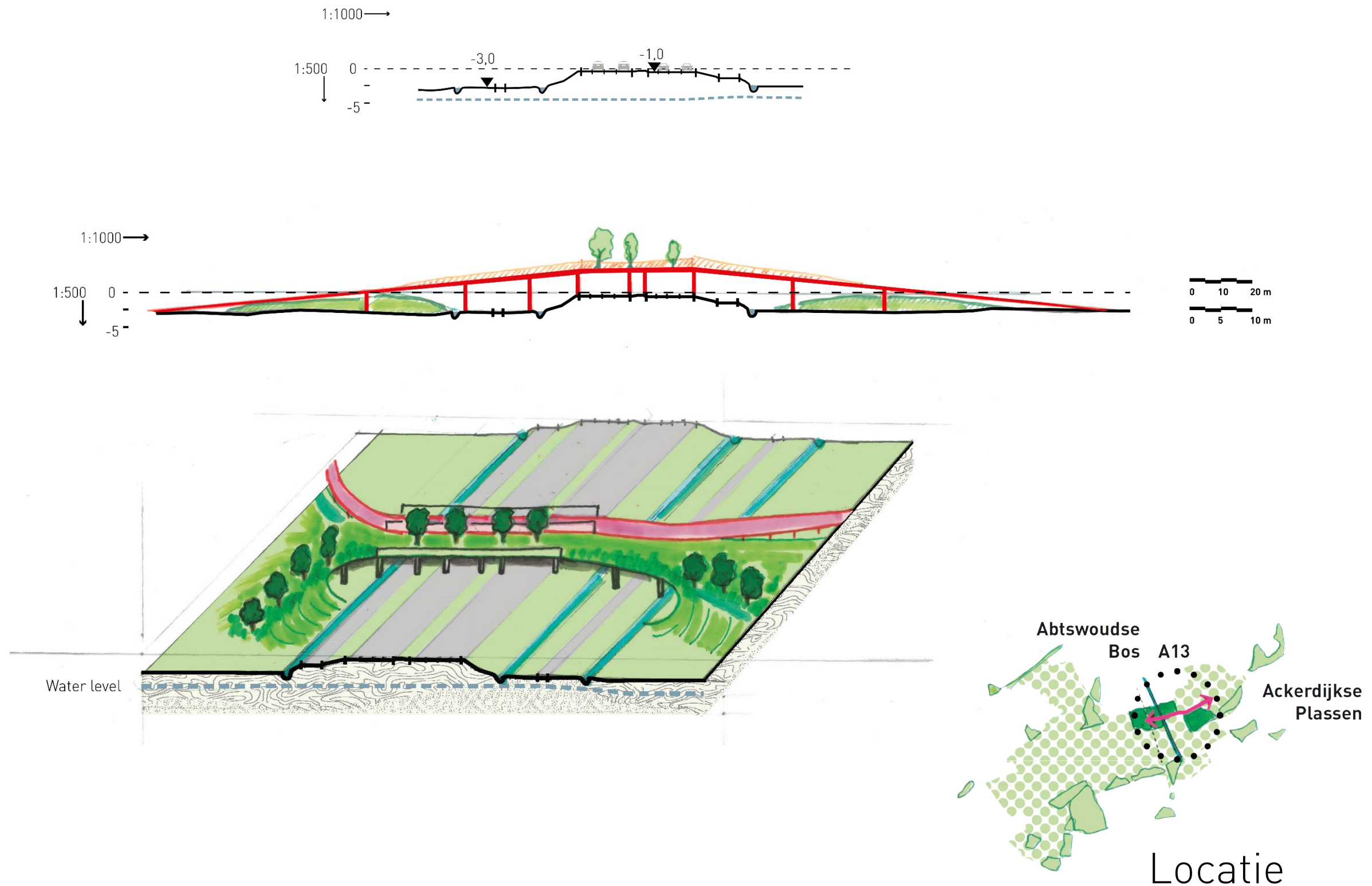
A13 Doorsnede



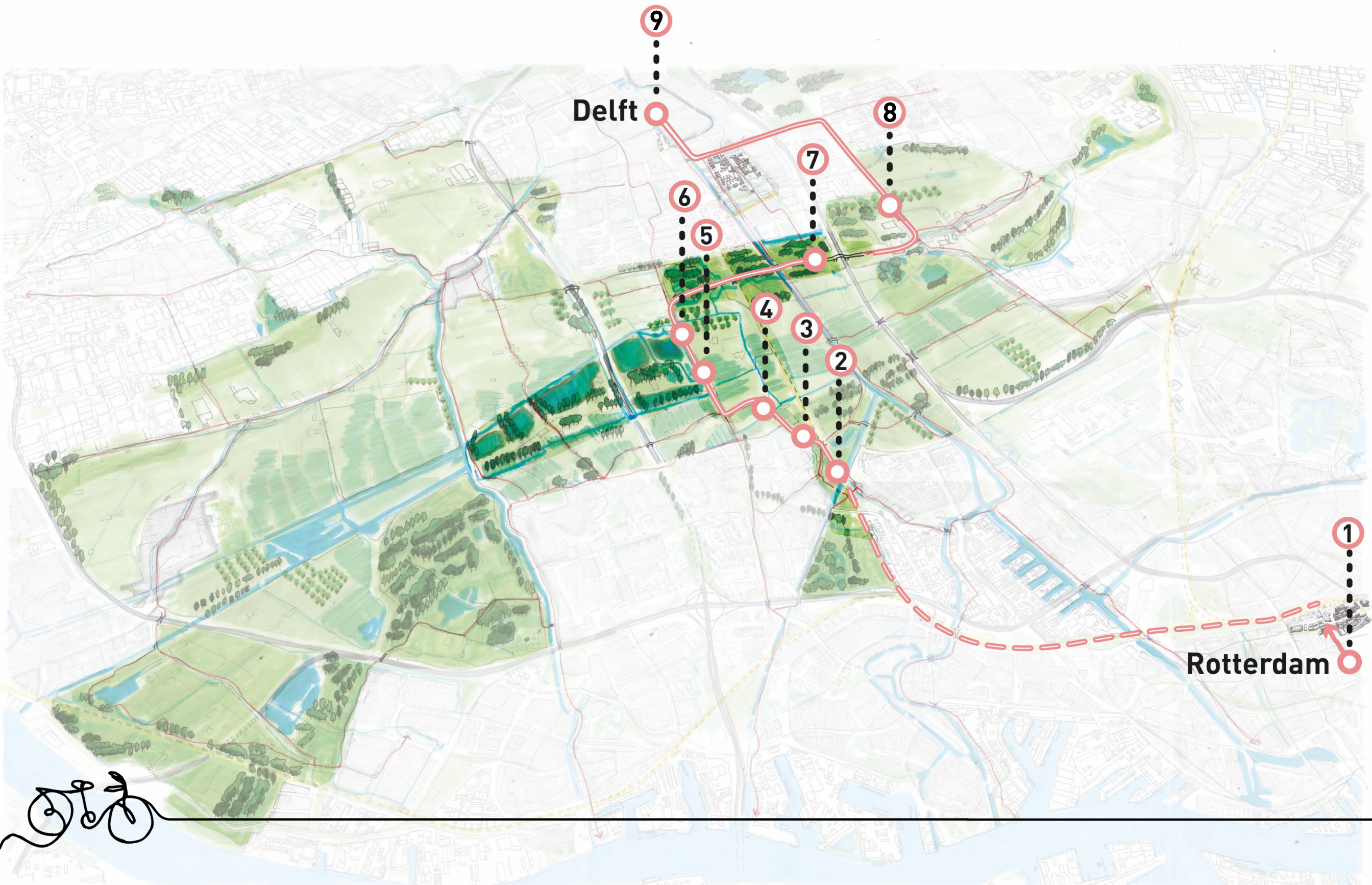
3. Connectiviteit – Fietsecoduct over de A13 – Doorsnede

Nieuw

A13 Doorsnede

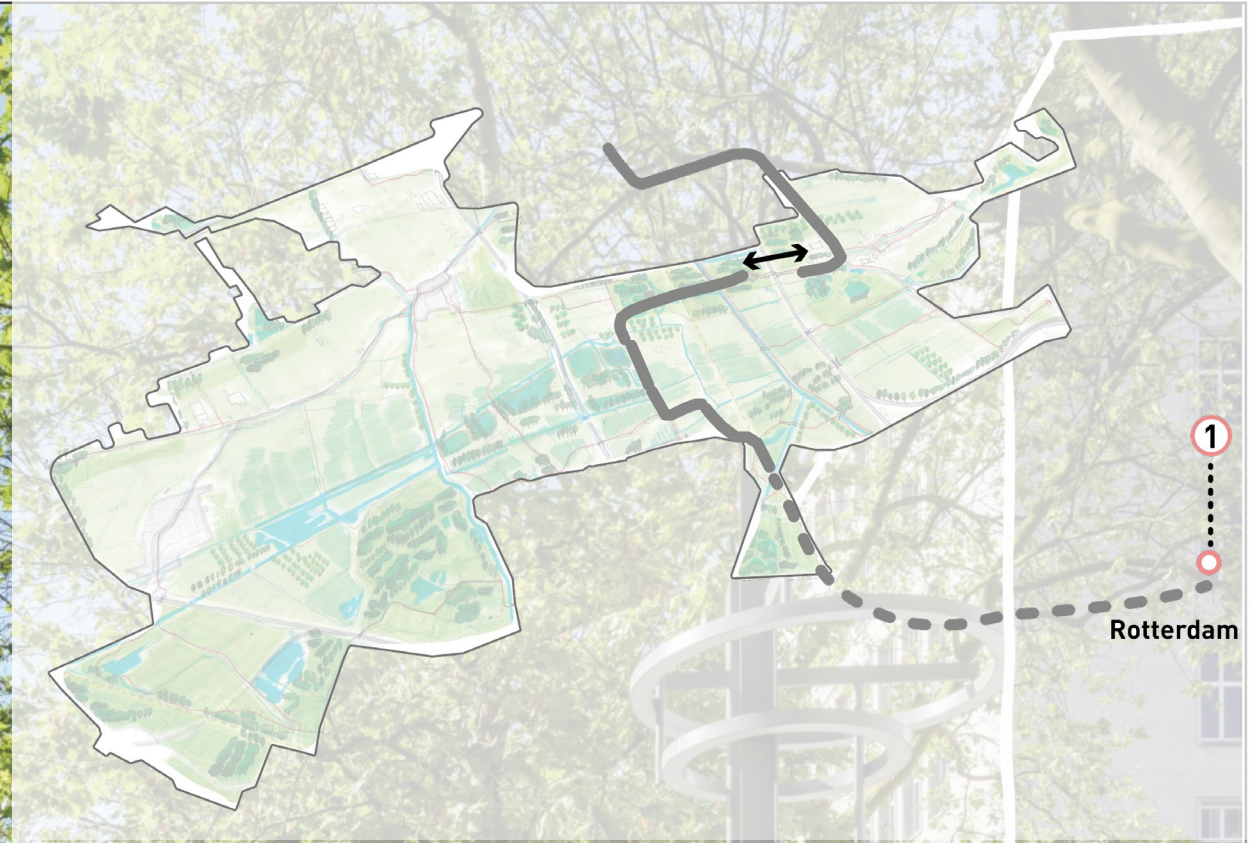
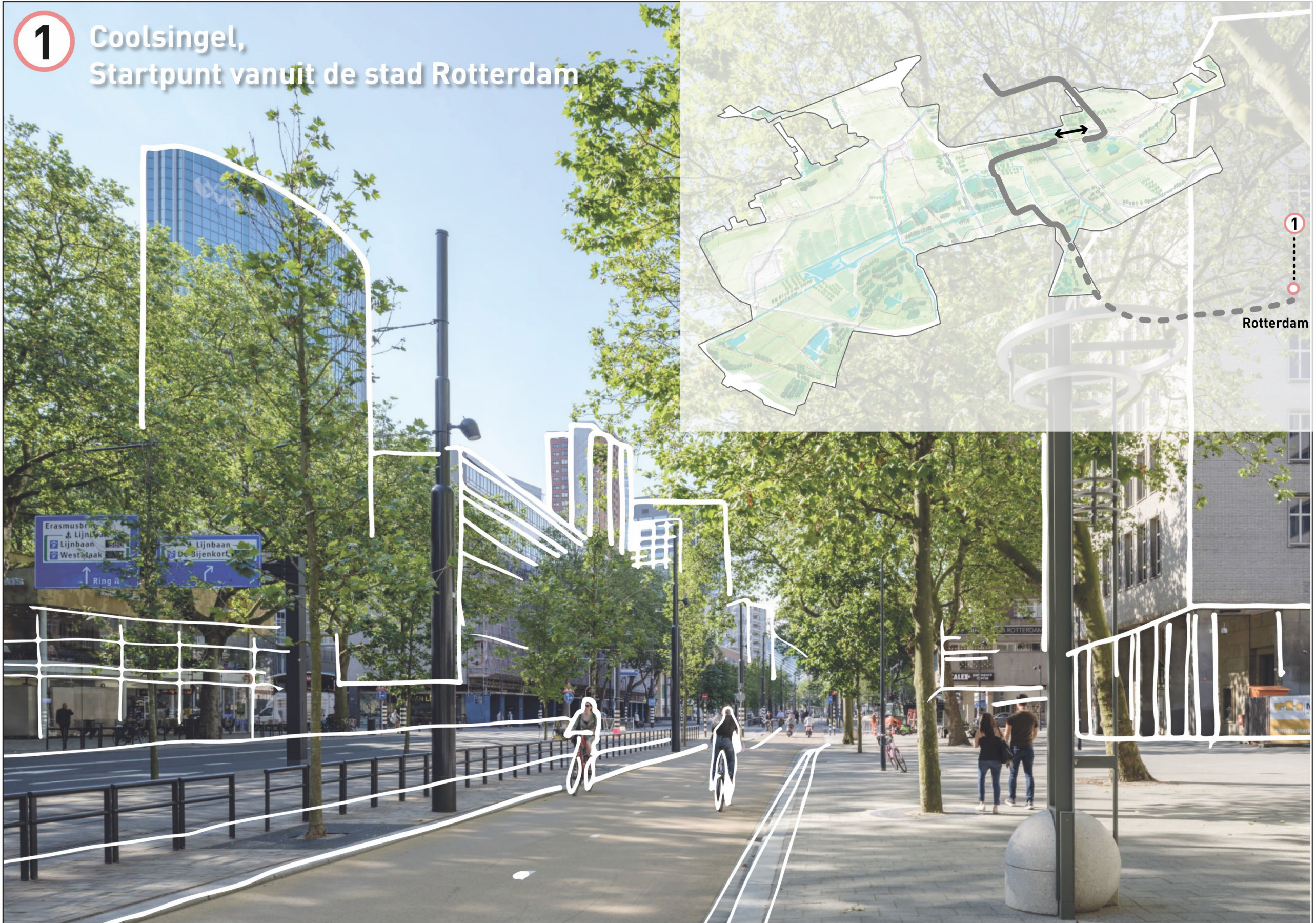


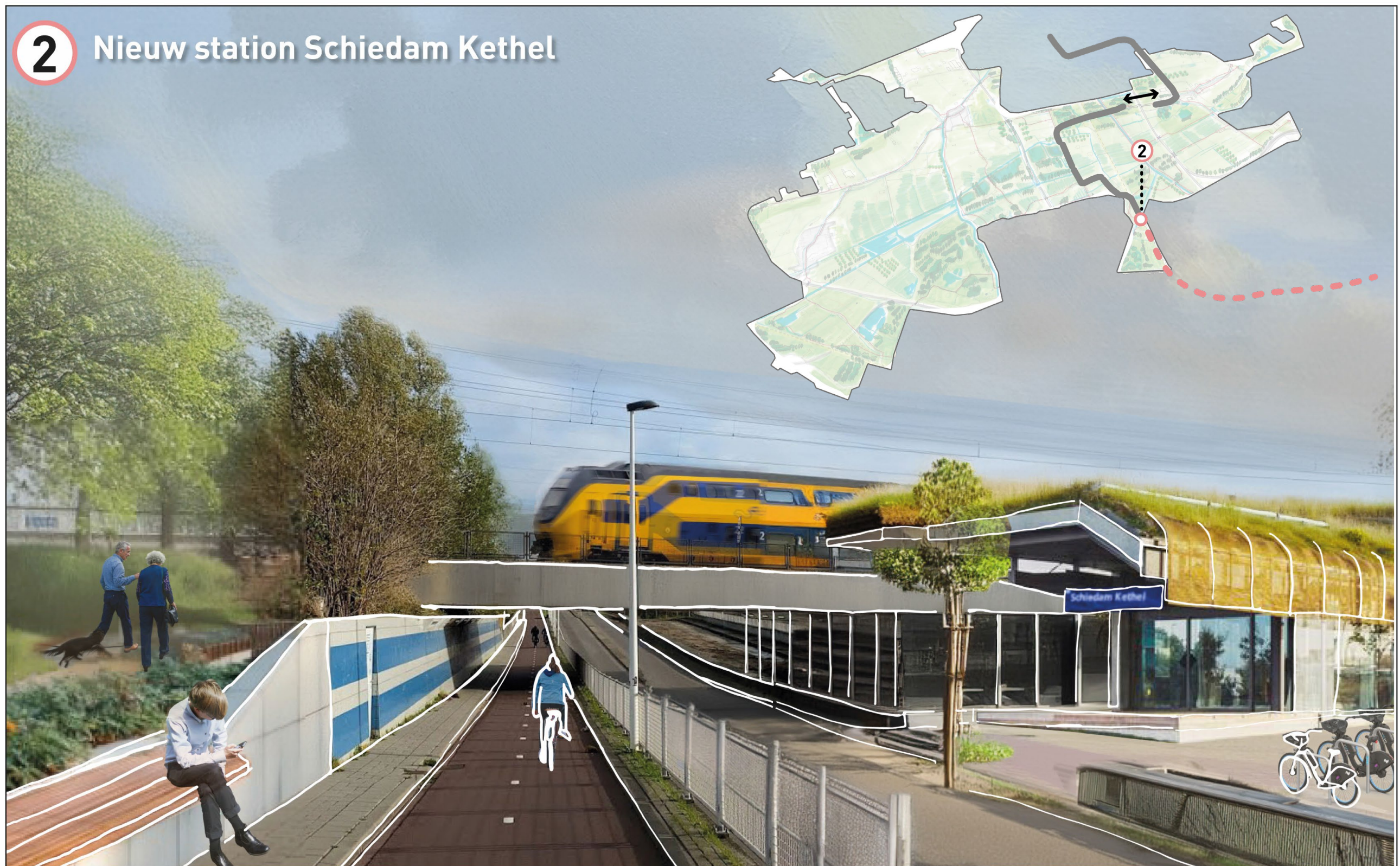
3. Connectiviteit – Fietsecoduct over de A13 – Doorsnede





1 Coolsingel, Startpunt vanuit de stad Rotterdam





2 Nieuw station Schiedam Kethel



3 Belevenisboerderij en gemeenschappelijke tuinen aan de randen van Midden-Delfland





4 Rietteelt & Extensieve, circulaire landbouw





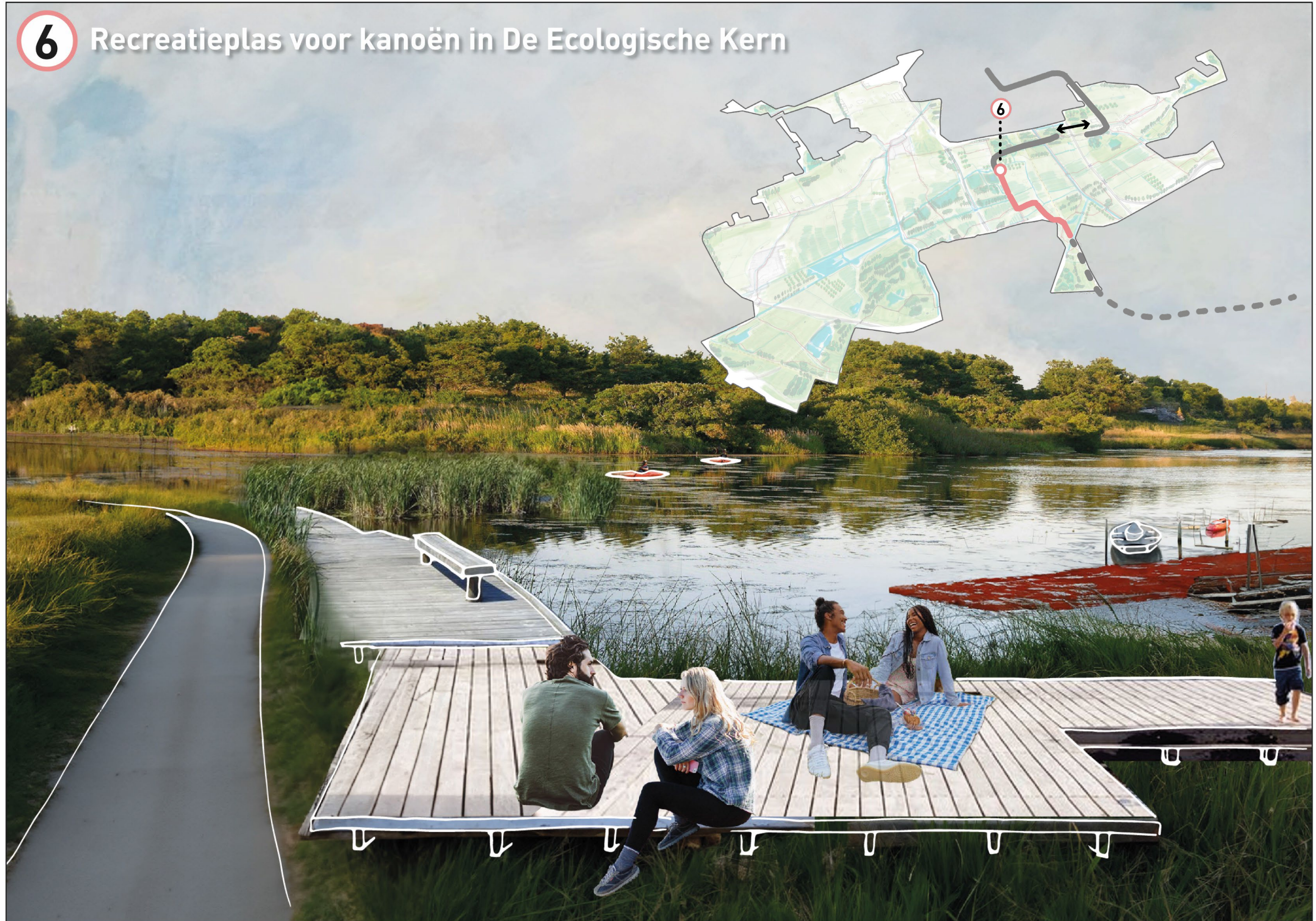
5 Divers Agrarisch Landschap





6

Recreatieplas voor kanoën in De Ecologische Kern





7 De A13 oversteken met het Fietsecoduct





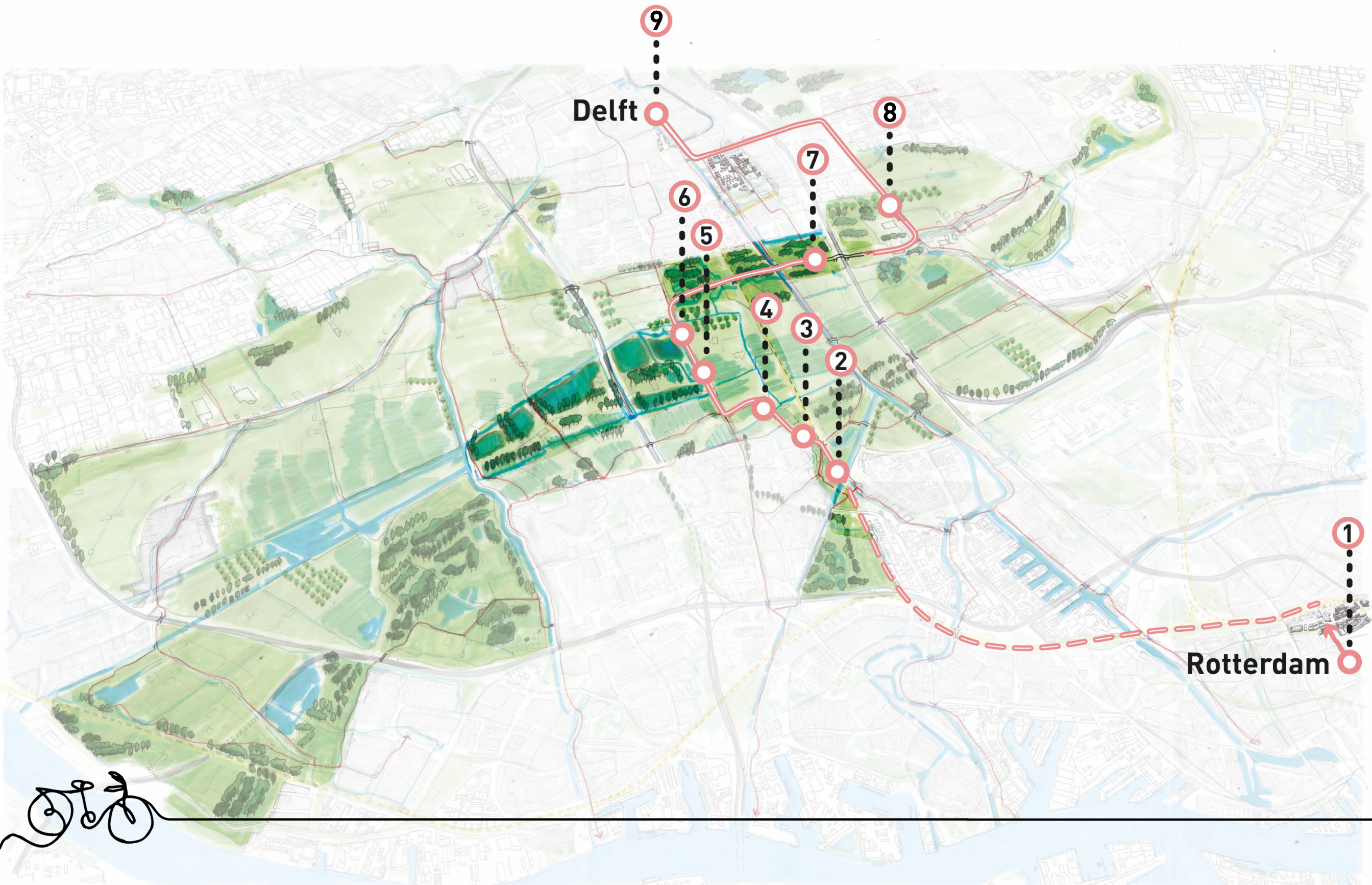
8 Gemakkelijke en snelle verplaatsing door Midden-Delfland met Openbaar Vervoersknooppunten



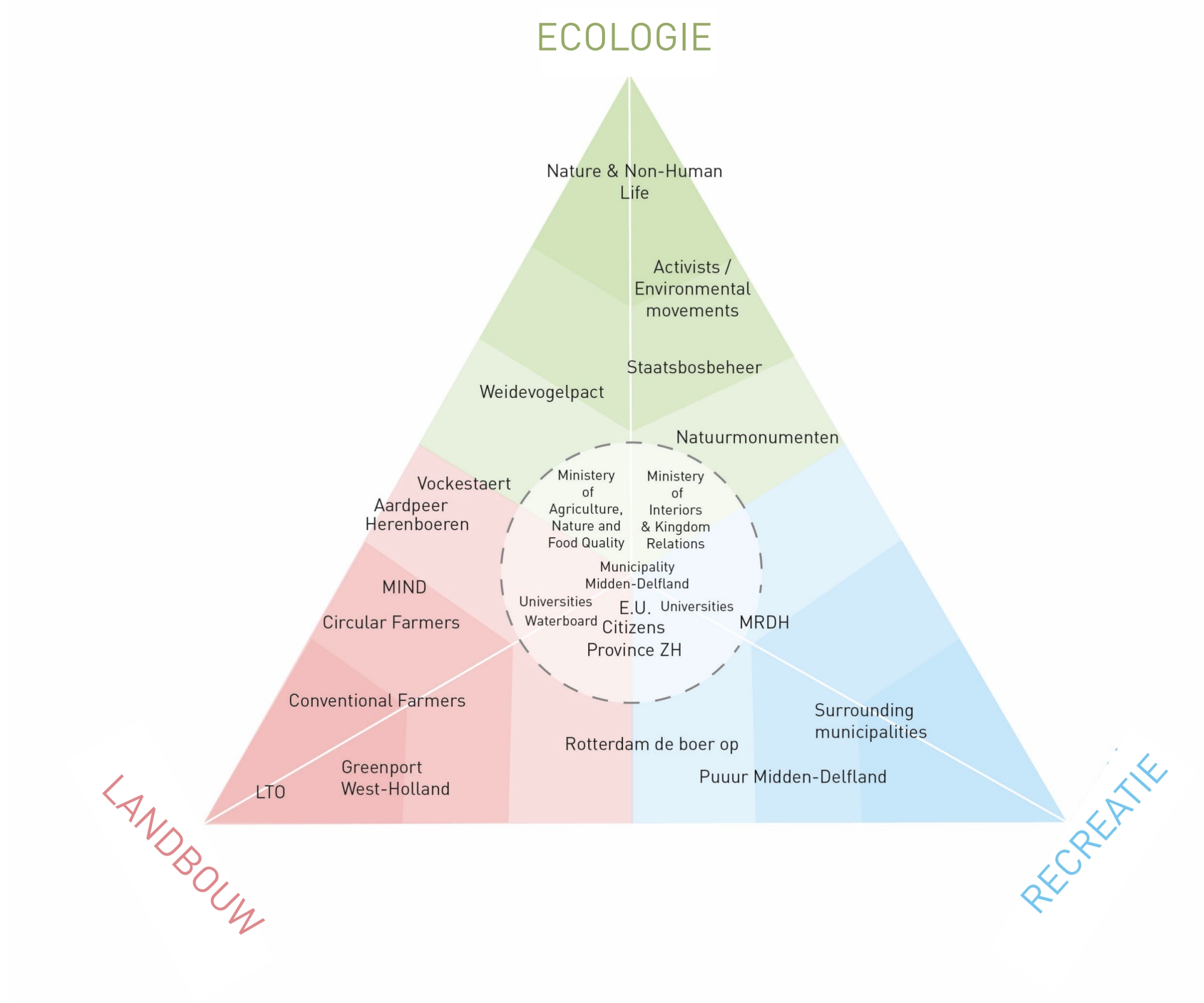


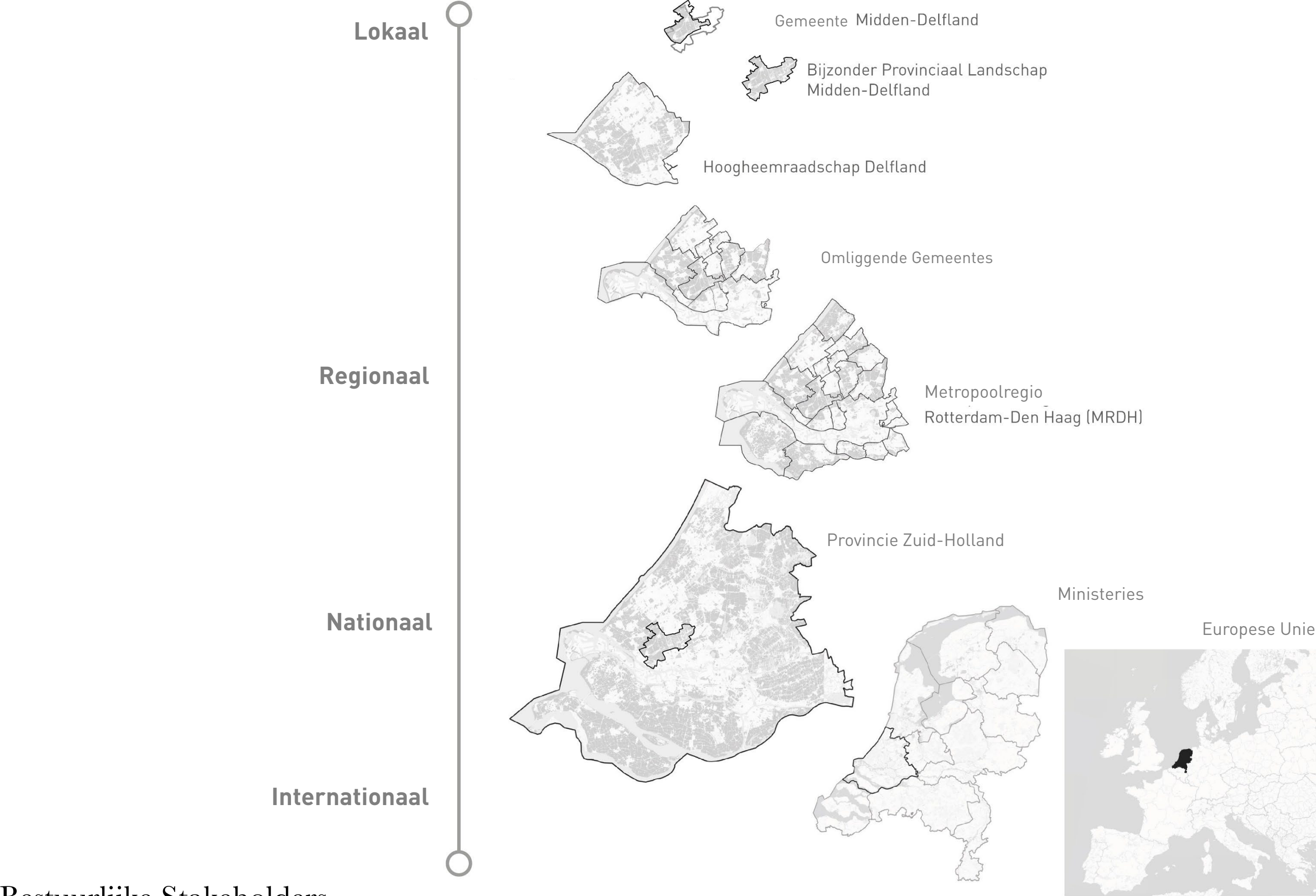
9 Aankomst in de stad Delft



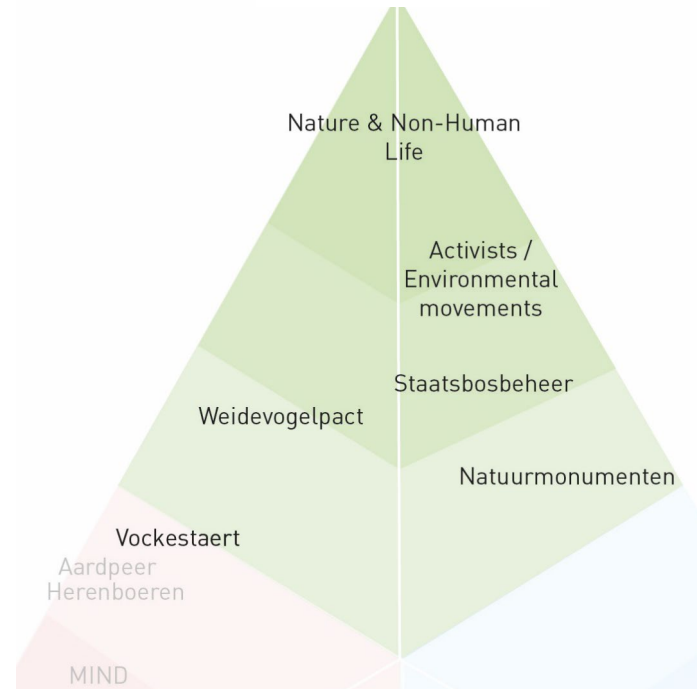


Een fietstocht door Midden-Delfland in 2070 - Route

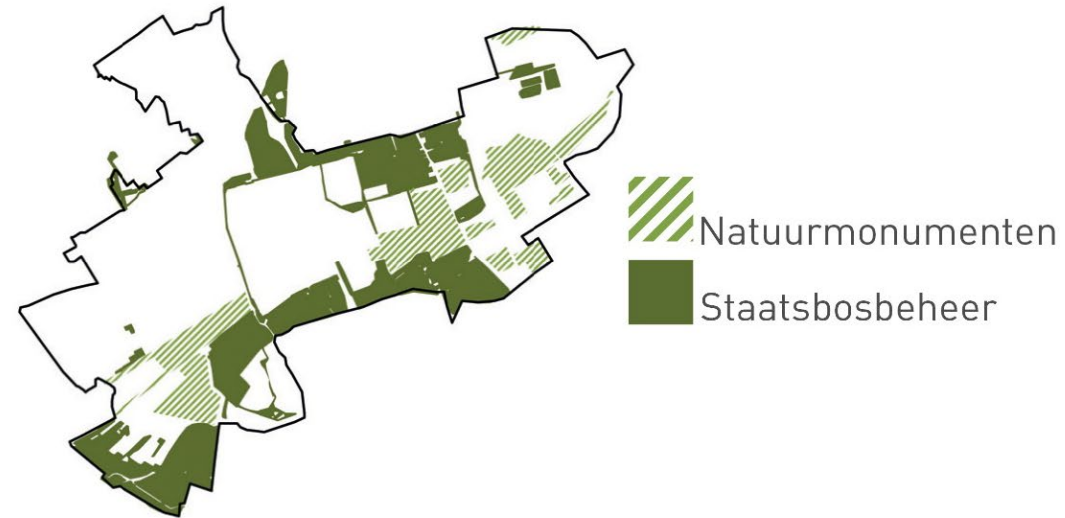




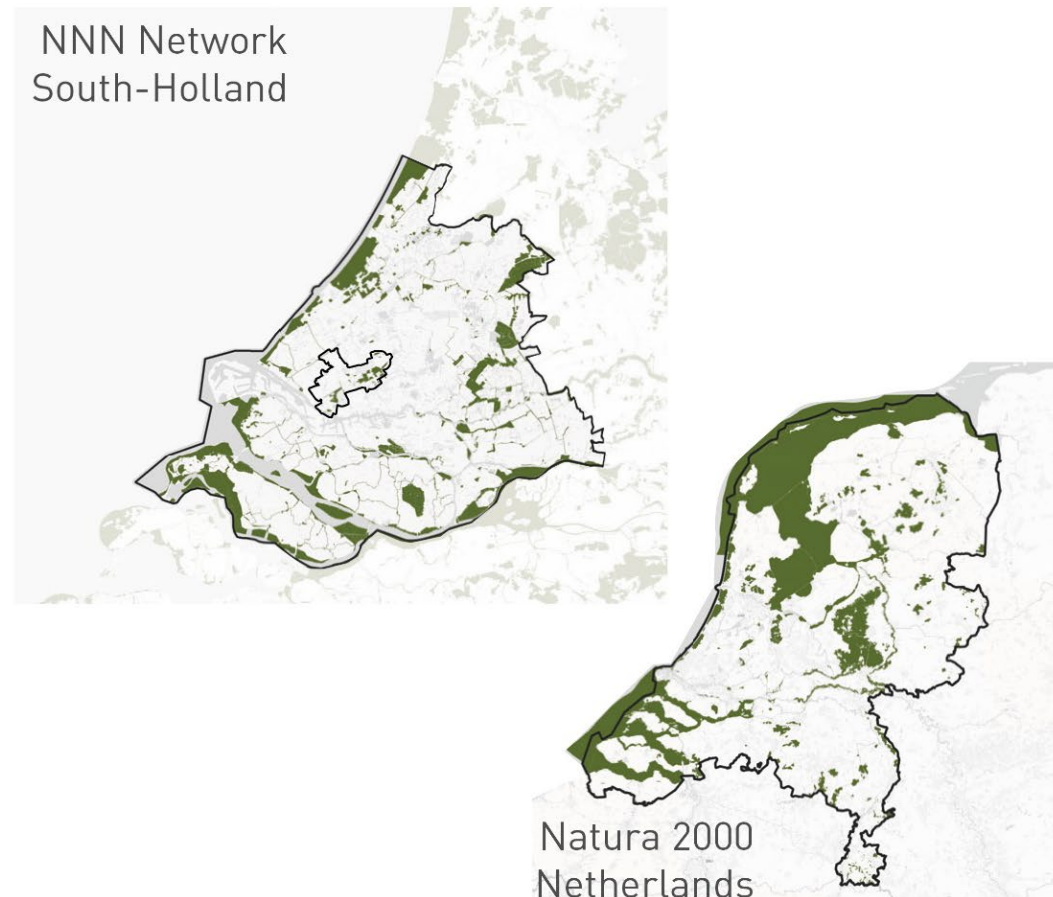
ECOLOGIE



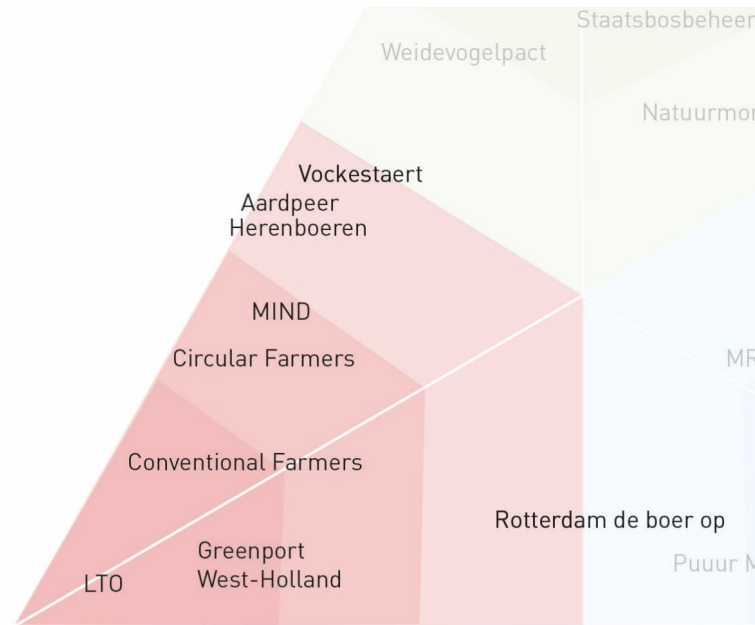
BPL Midden-Delfland



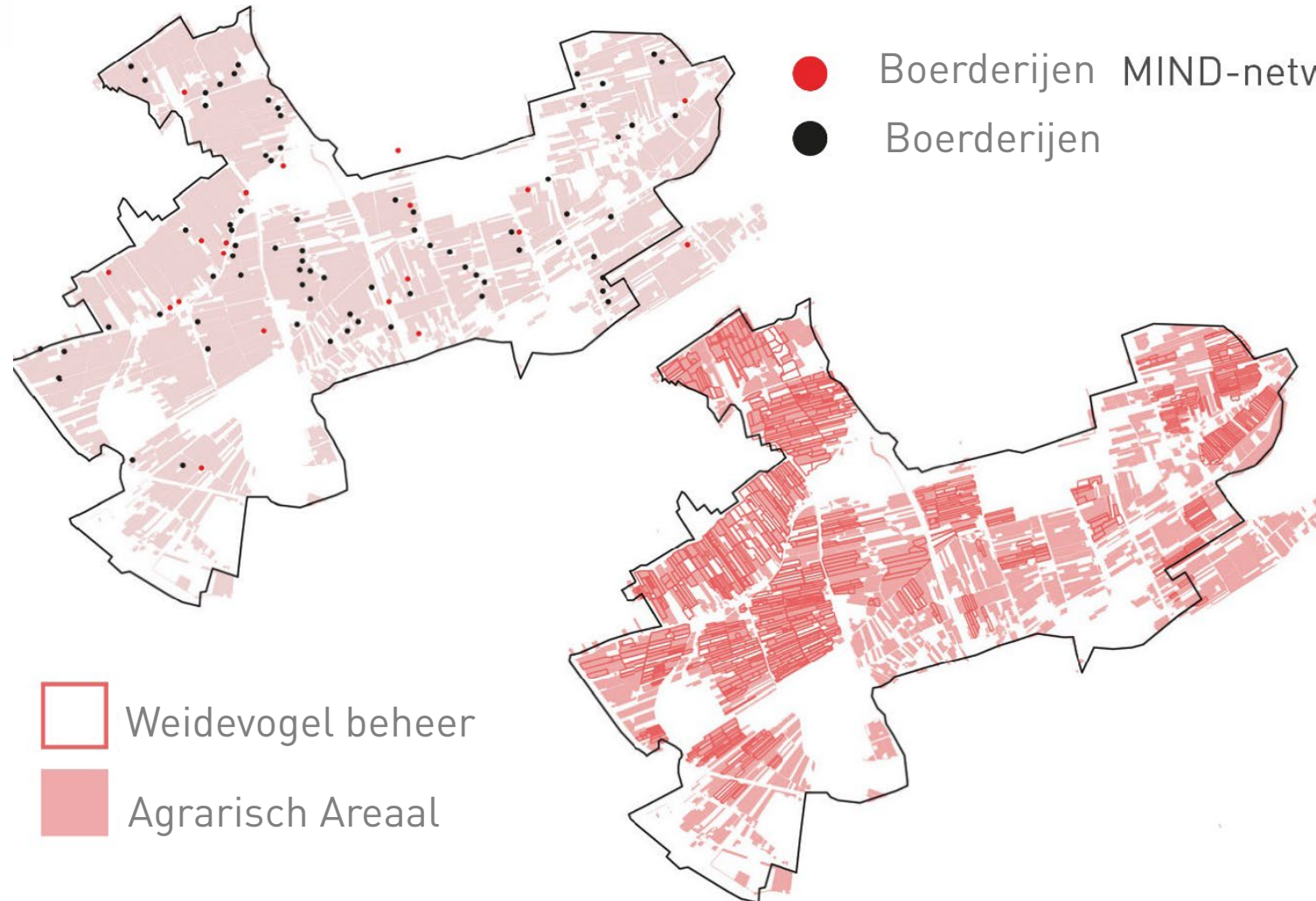
NNN Network
South-Holland

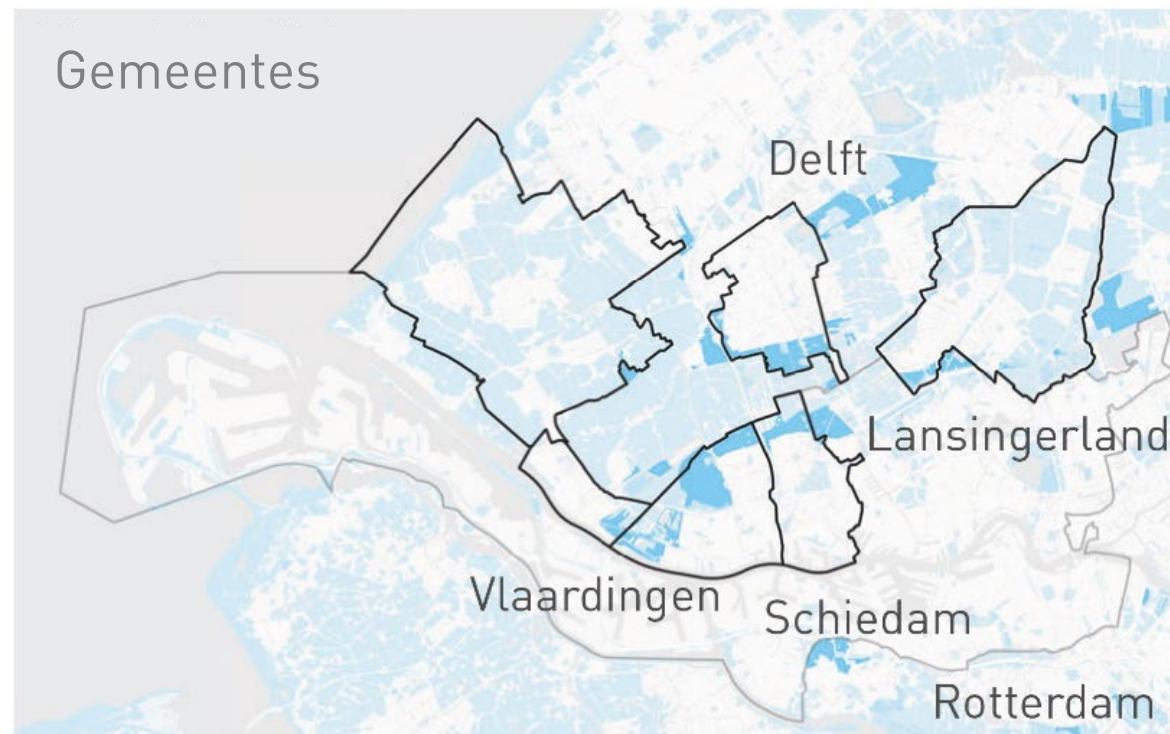
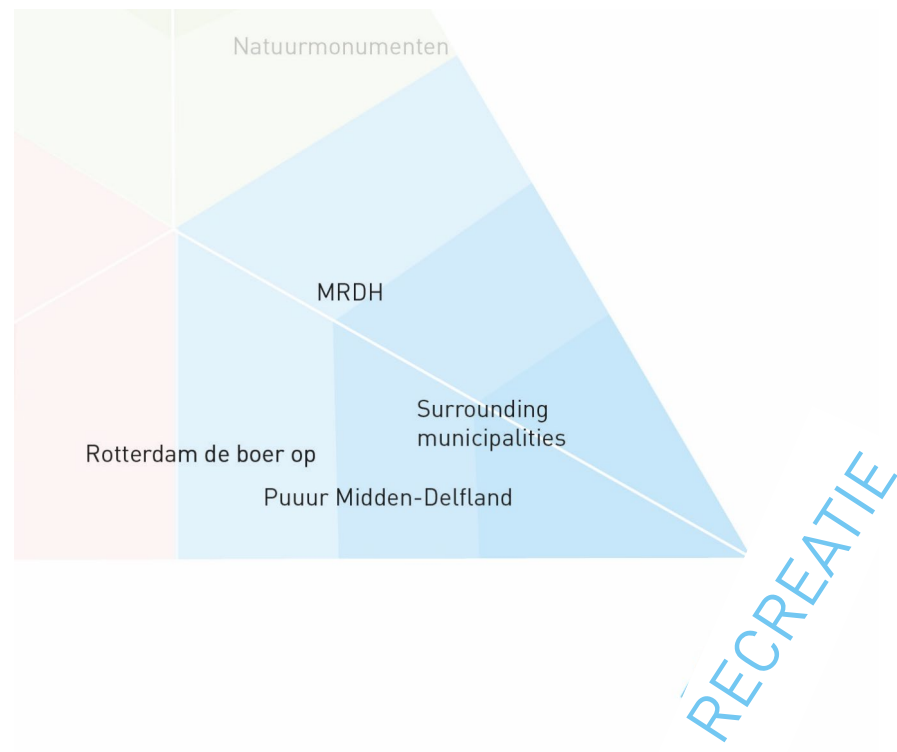


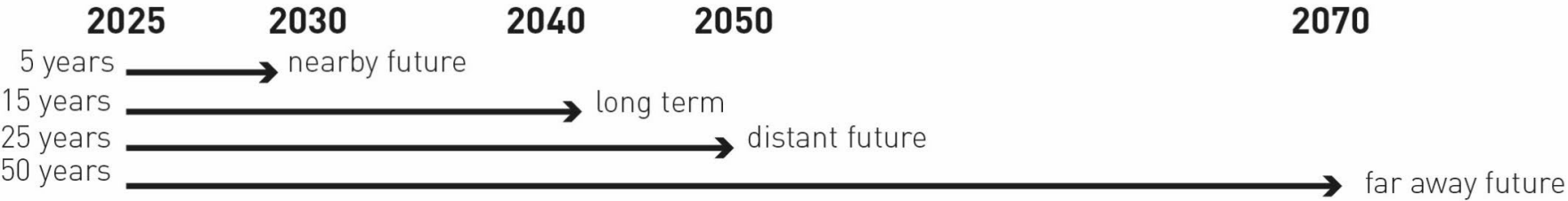
LANDBOUW



BPL Midden-Delfland







Landbouw

Ecologie

Recreatie

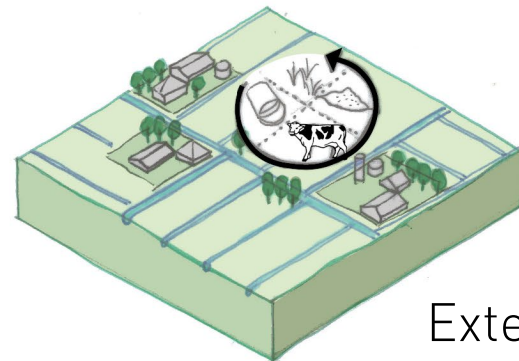
2025
 5 years
 15 years
 25 years
 50 years

2070

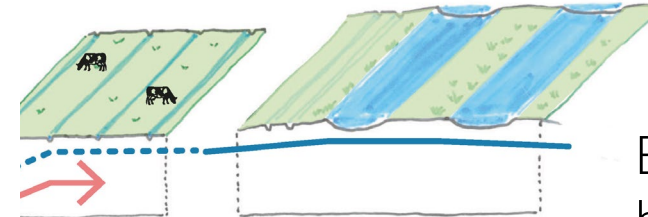
istant future

far away future

Landbouw

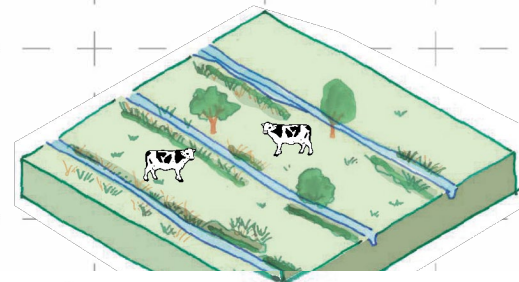


Extensieve
Kringlooplandbouw



Eerste projecten met
hoger waterpeil

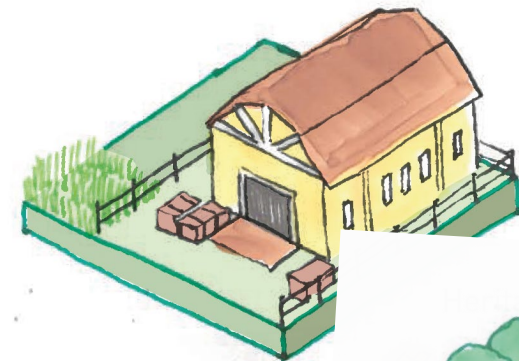
Ecologie



Agro tourism

Ecologische Oevers
Weidevogelbeheer

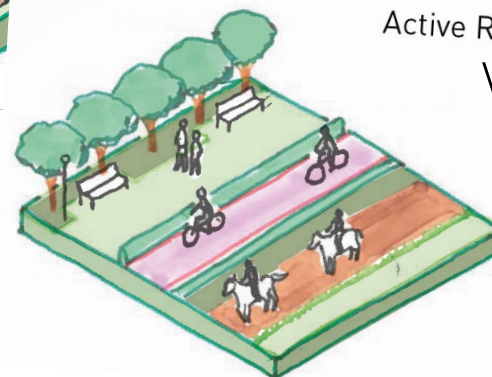
Recreatie



Bezoekersboerderijen

Active Routes

Verbeterde fietspaden

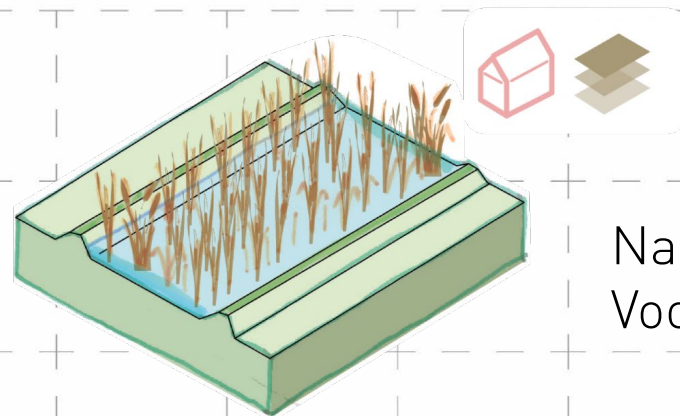


Ontwikkelstrategie & Tijdlijn

**1. Pilot Projecten
& Eerste Initiatieven**

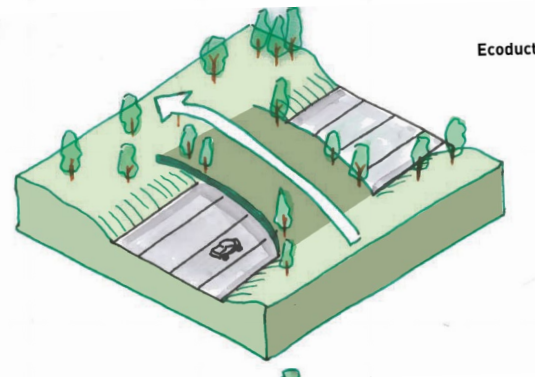


Landbouw



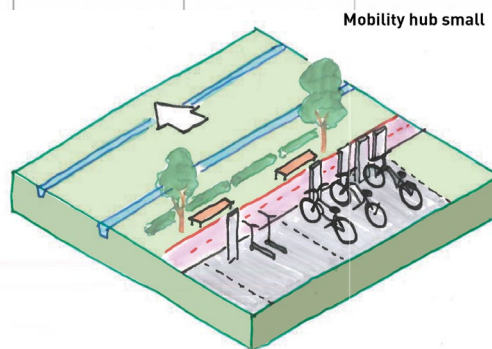
Natte teelten, rietteelt
Voor biobased materialen

Ecologie

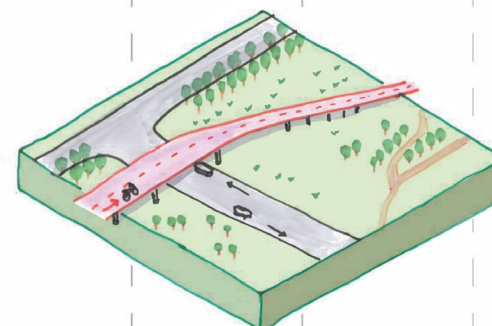


Ecologische verbindingen

Recreatie

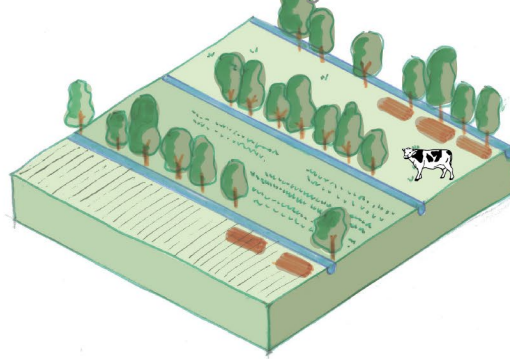


Mobiliteitshub



Fietsecoduct,
fietsverbindingen

20
5 years
15 years
25 years
50 years



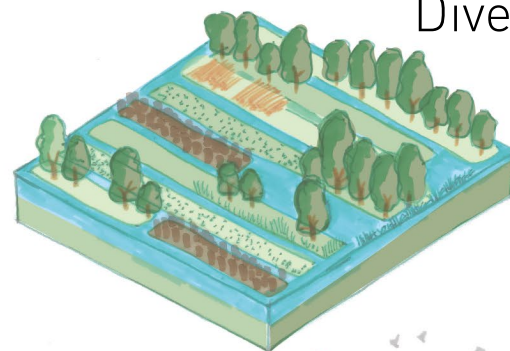
150

▶ distant future

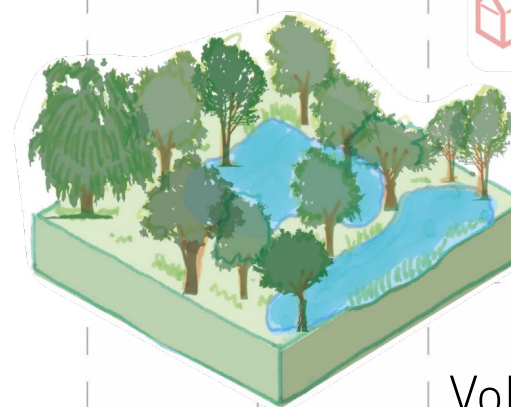
2070

→ far away future

Landbouw

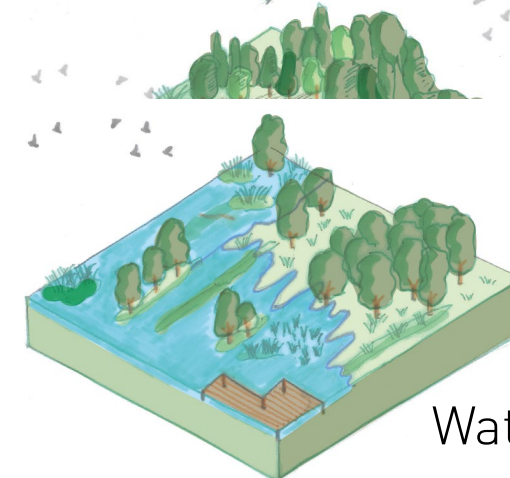


Divers, productief veenlandschap

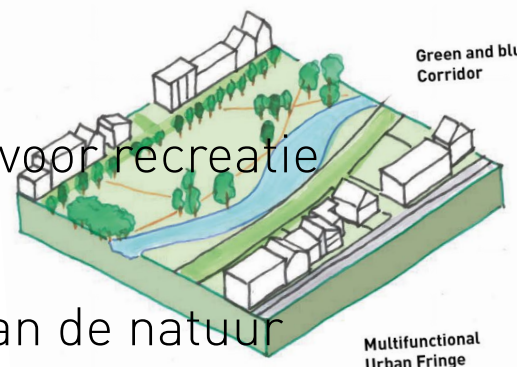


Volgroeide grienden, bosbouw

Ecologie



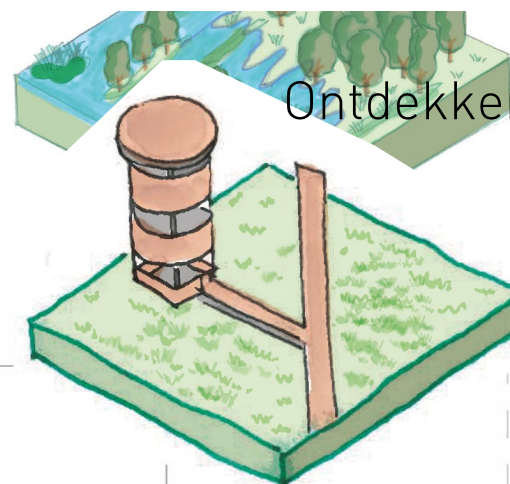
Water voor recreatie



Green and blue
Corridor

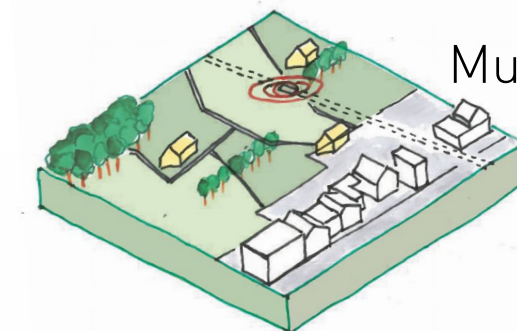
Ontdekken van de natuur

Recreatie



Multifunctional
Urban Fringe

Multifunctionele stadsranden



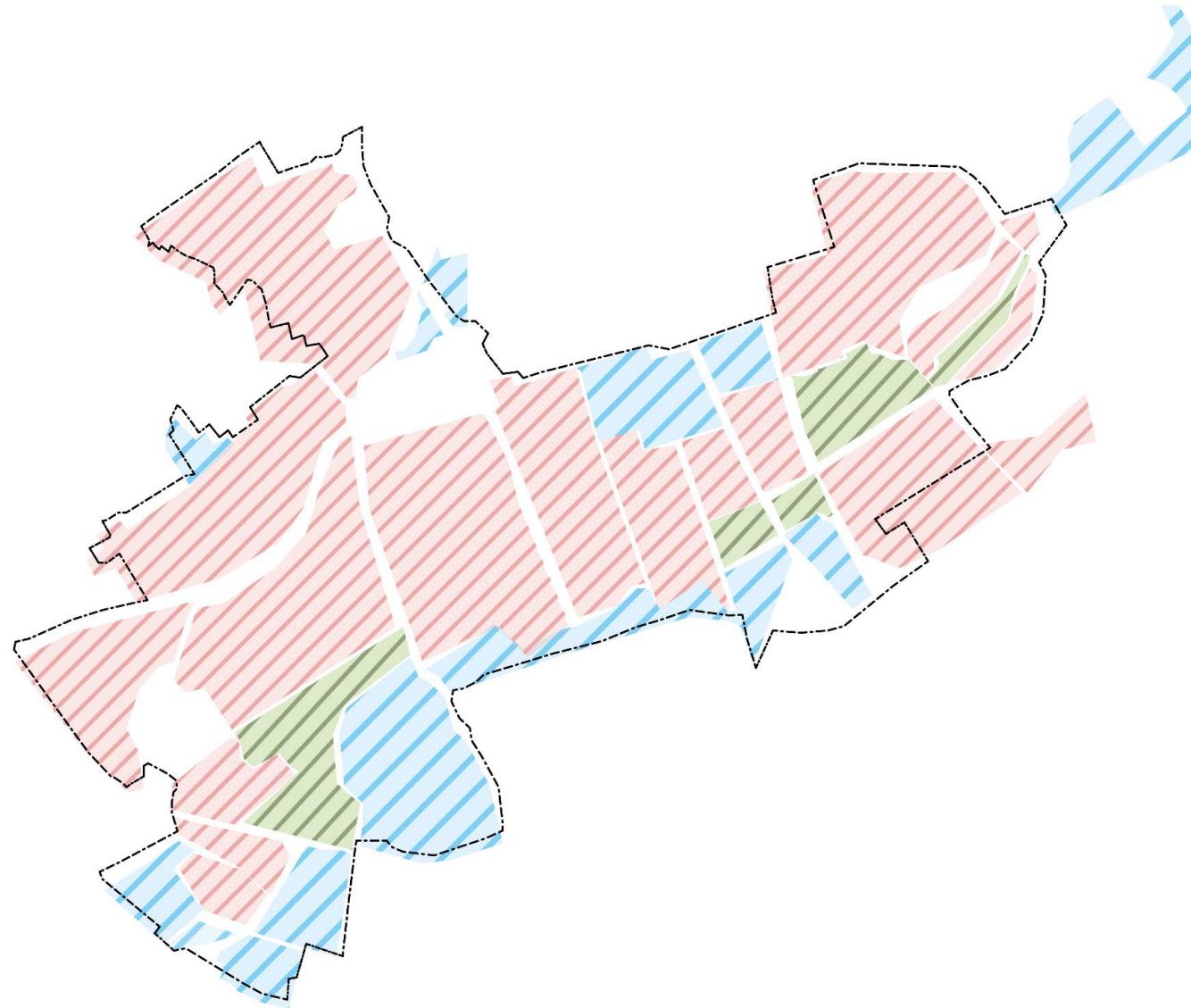


[Fig.1] Midden-Delfland, with the city of Rotterdam at the horizon. (*Natuurmonumenten, Polder Schieveen, 2023*).

Landbouw

Ecologie

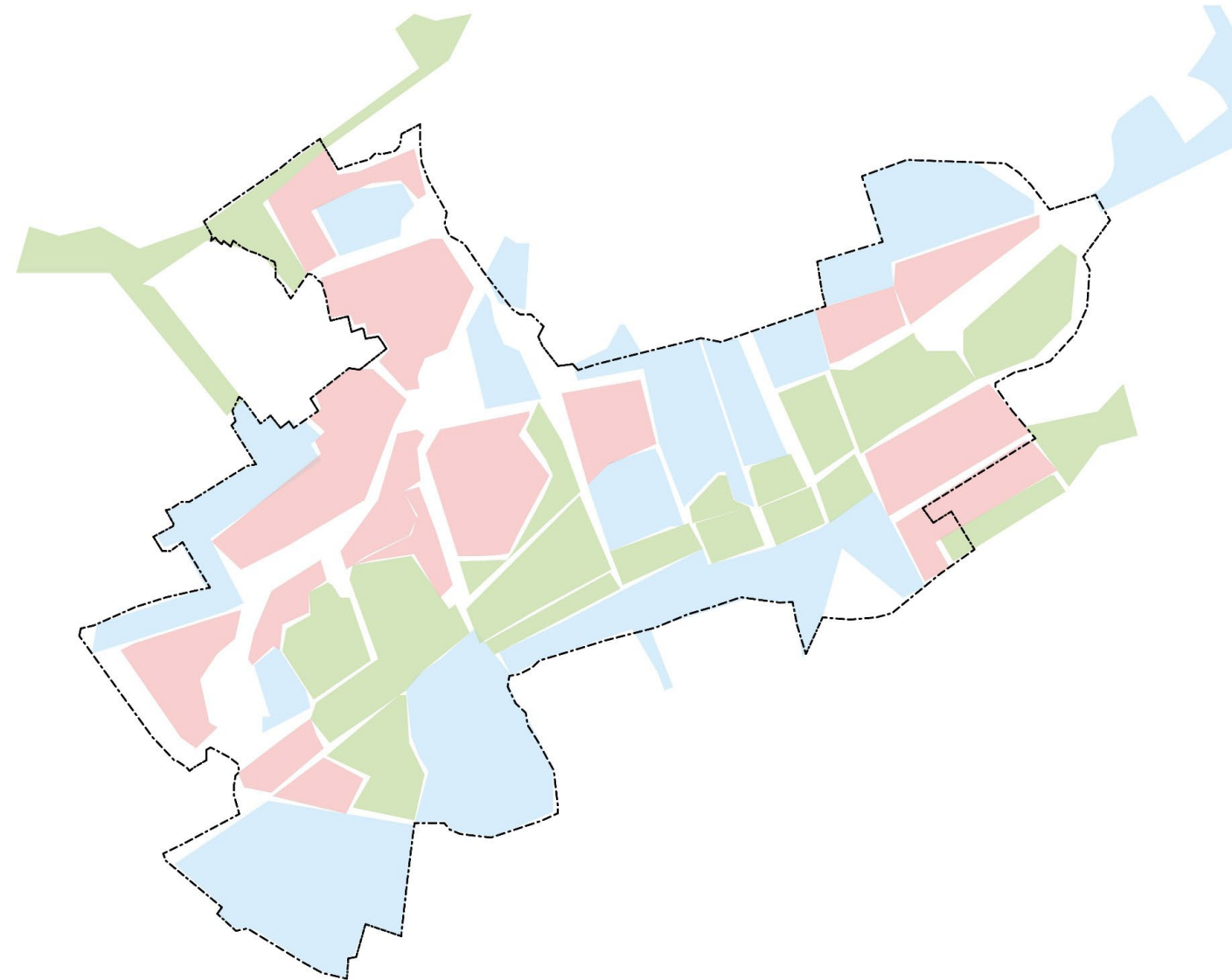
Recreatie

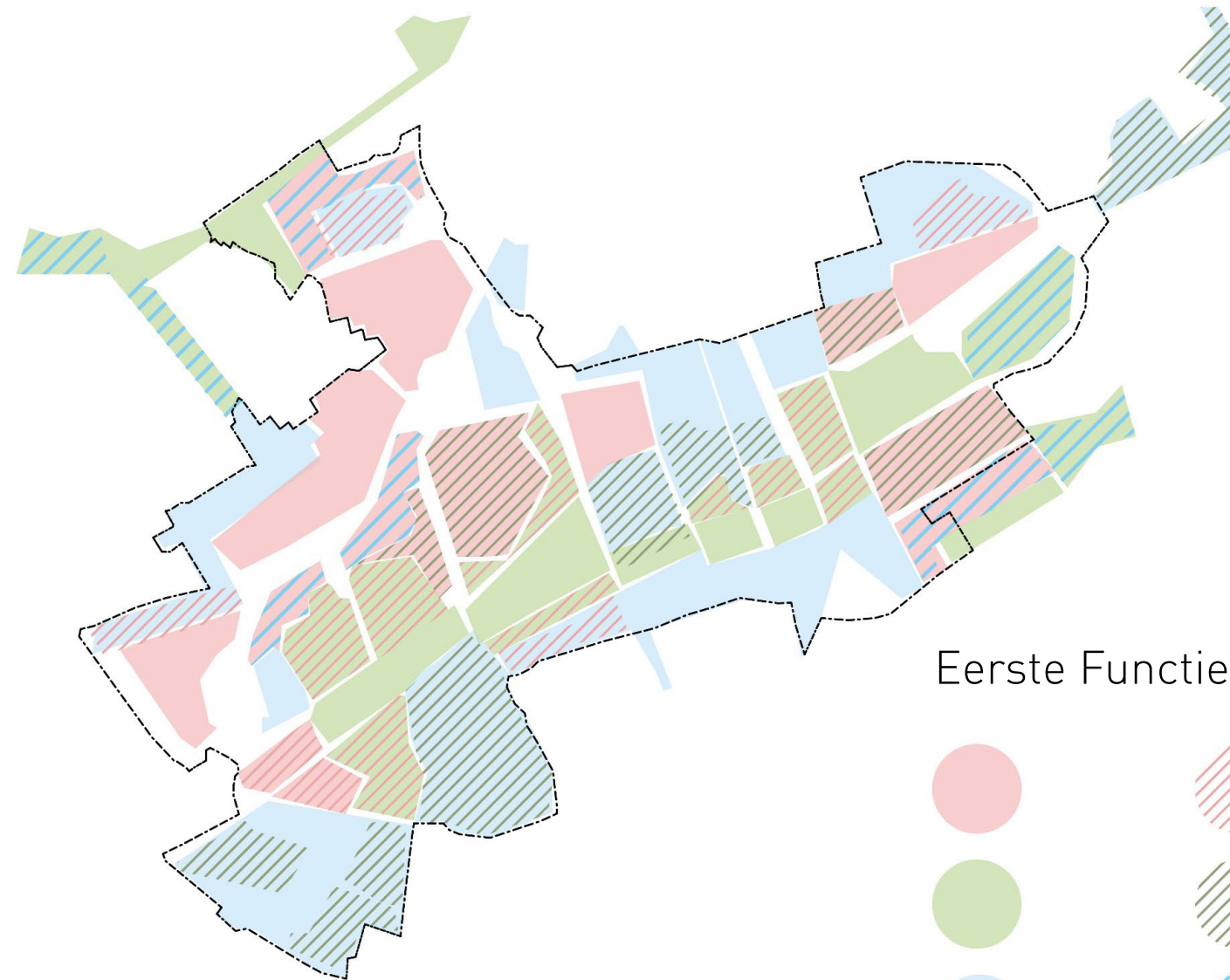


Landbouw

Ecologie

Recreatie



Landbouw**Ecologie****Recreatie**

Eerste Functie Tweede Functie



Bird's Eye View - Midden-Delfland
The Metropolitan Park towards 2070



- | | | | |
|------------------------|-----------------|---------------------|---------|
| Rotterdam Airport | Metro Station | Bicycle Connections | Highway |
| Small village 't Woudt | Railway Station | Railway | Metro |

Visie voor 2070



