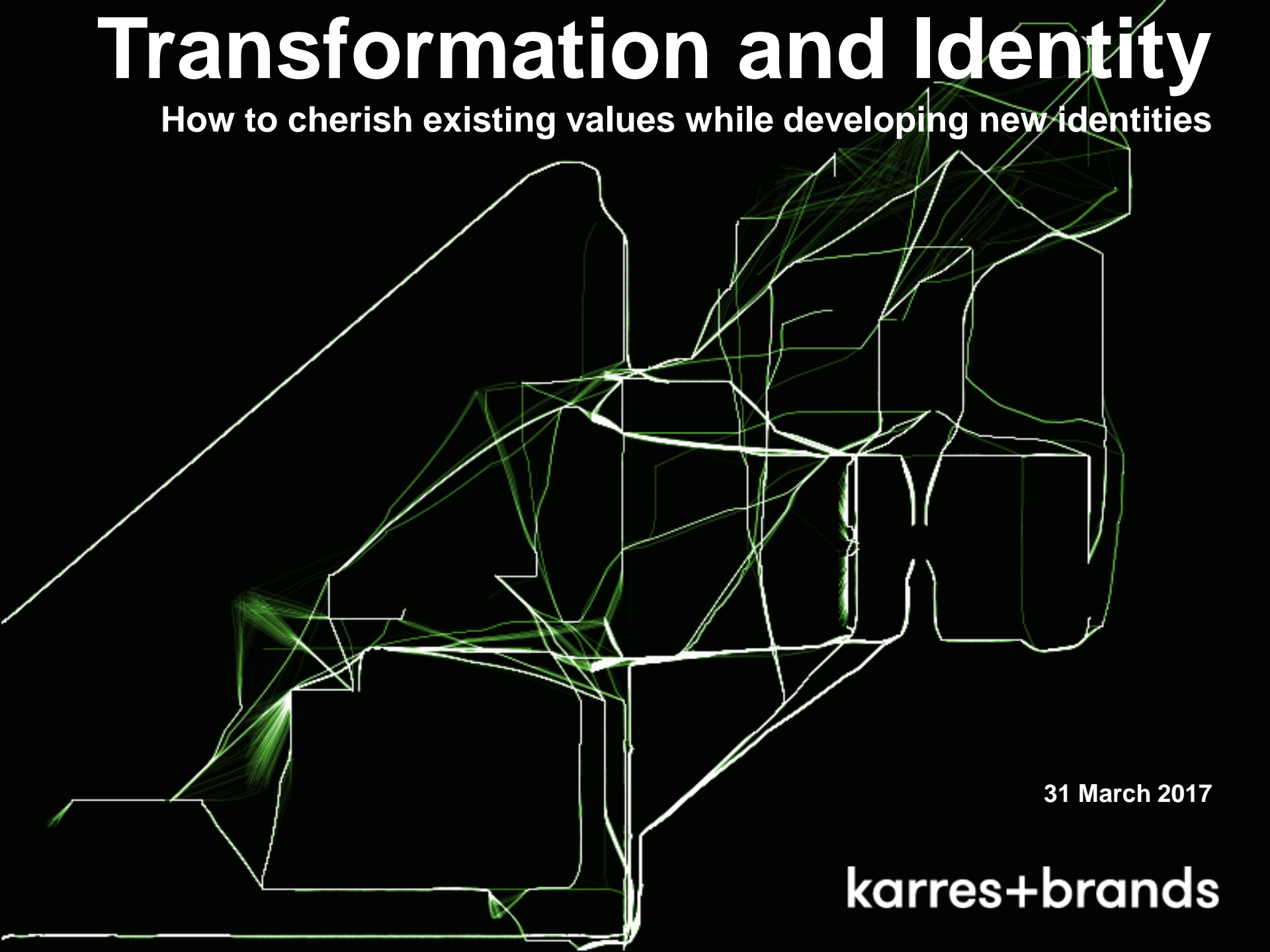


# Transformation and Identity

How to cherish existing values while developing new identities



31 March 2017

karres+brands

- **karres+brands**
- **norway vs the netherlands**
- **dutch landscape**
- **future challenges**
- **office projects**
- **approach**

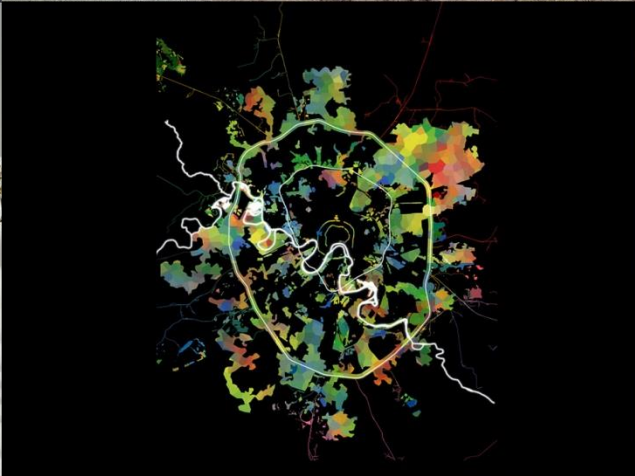
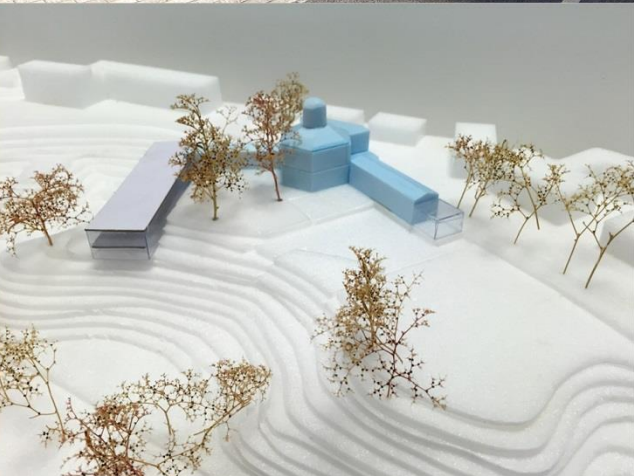


**karres+brands**

# Office













# Federation Square – Melbourne (AU)

## Design public space



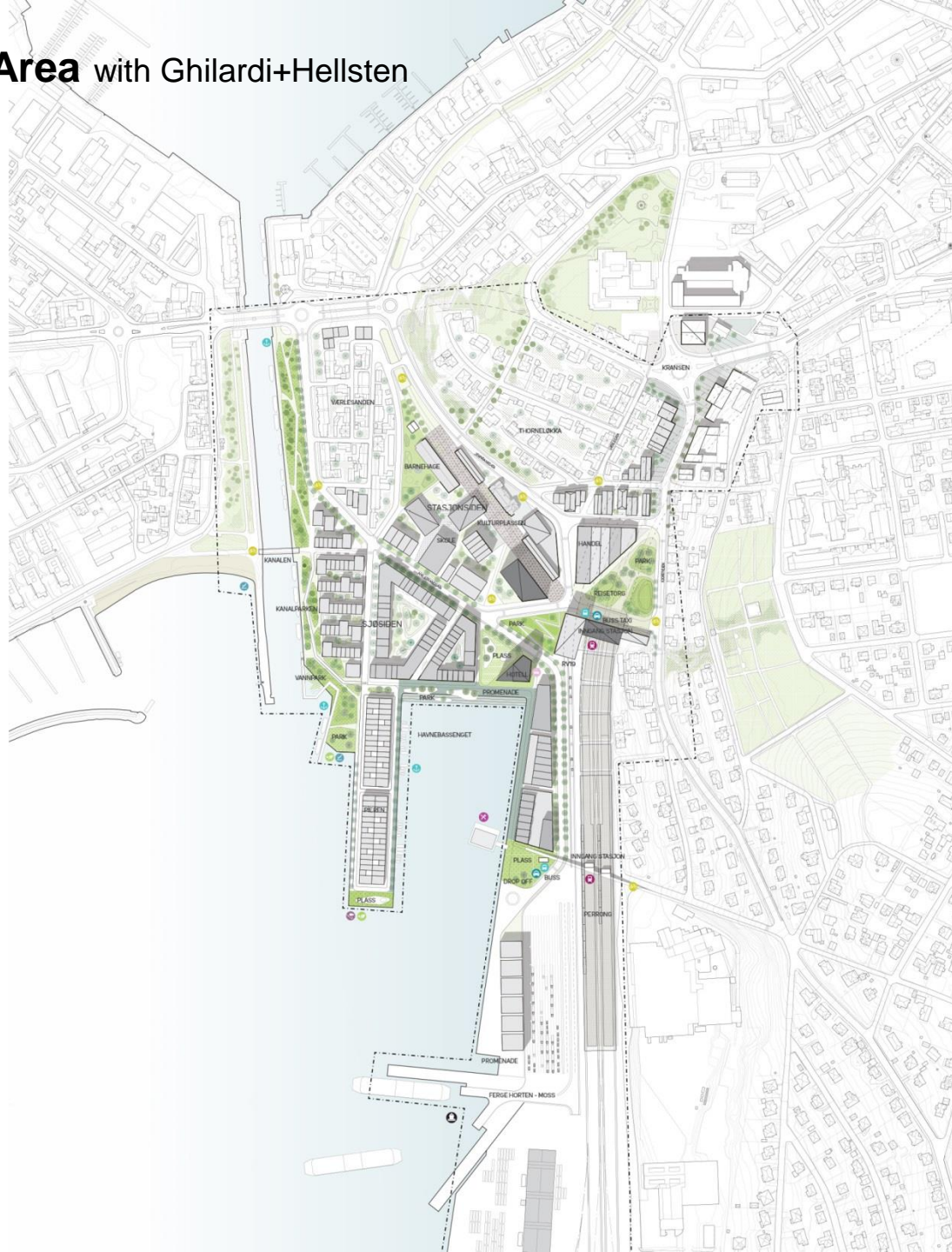


Filipstad Oslo with 3RW and S333





# Moss Station Area with Ghilardi+Hellsten





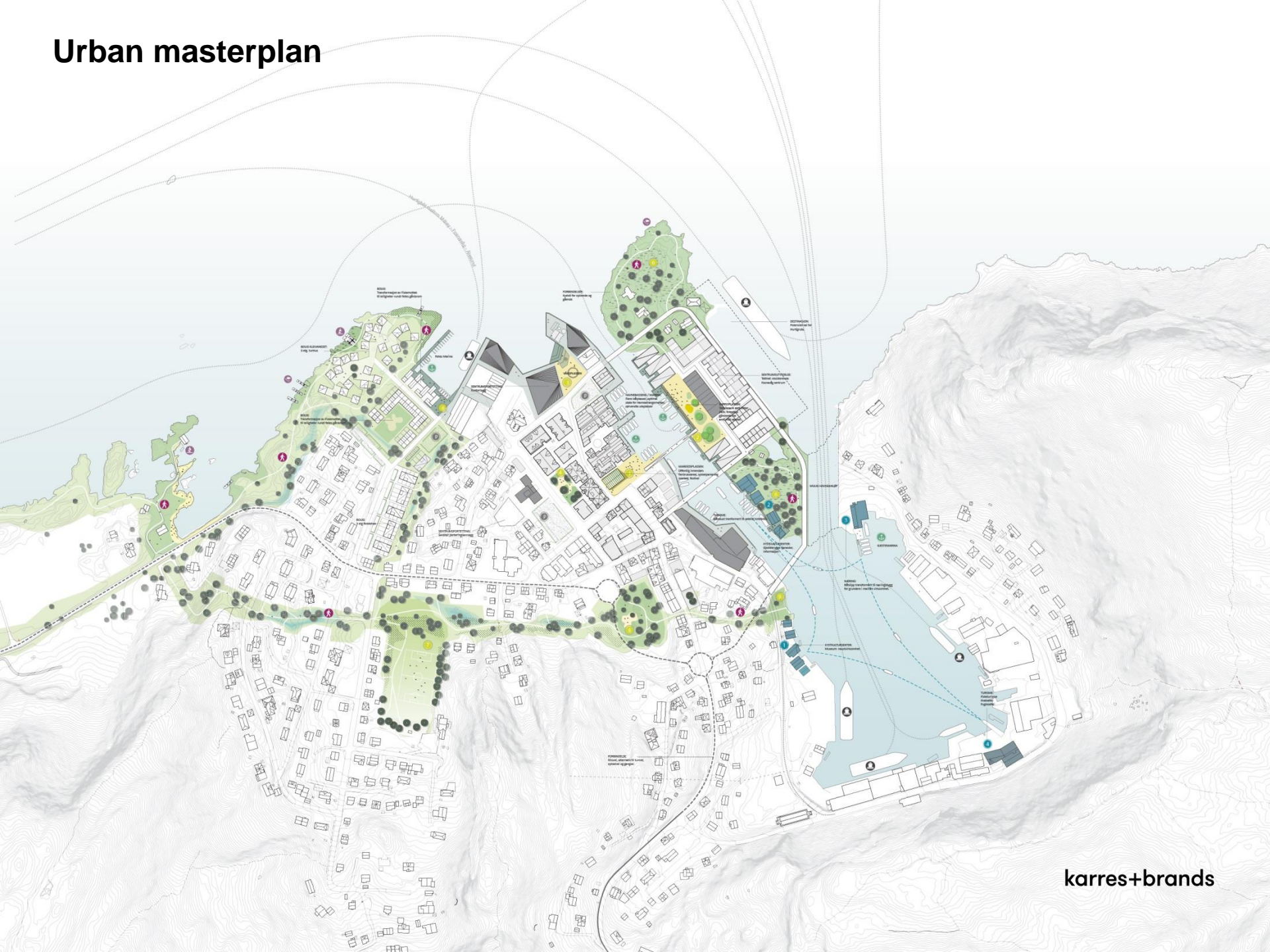
Fosnavåg with Ghilardi+Hellsten



karres+brands



# Urban masterplan





# Temporary square



# Købmagergade, Copenhagen (DK) with Polyform









# Statens Museum for Kunst, Copenhagen (DK) with Polyform



karres+brands





STATSMUSEUMSBEST

# Norway vs The Netherlands



## Norway



## The Netherlands





## NORWAY

Capital: Oslo

Language: Norsk/Nynorsk

Area: 385.178 km<sup>2</sup>

Inhabitants: 5.315.245

Highest point: Galdhøpiggen 2469 m

Average elevation: 460m

Coastline: 19.924km



## NETHERLANDS

Capital: Amsterdam

Language: Nederlands

Area: 33.893 km<sup>2</sup>

Inhabitants: 17.018.959

Highest point: Vaalserberg 323 m

Average elevation: 30m [30% below sea level]

Coastline: 451km



# Urbanisation

## NORWAY

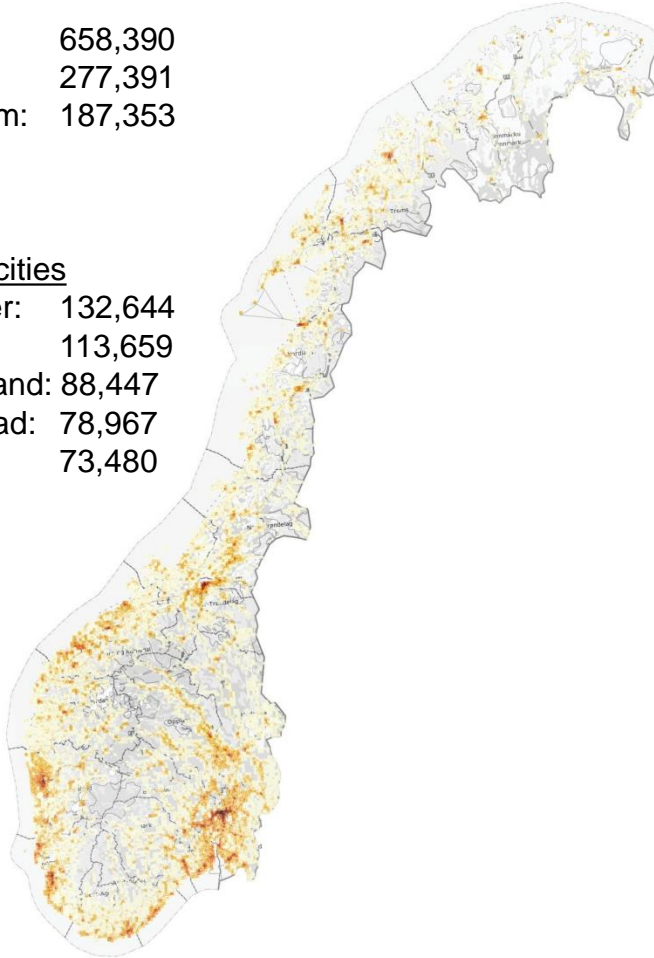
Population density: 15 inhabitants/km<sup>2</sup>  
% living in urban areas: 81%  
Average commuting time: 31 min/day

### Big cities

Oslo: 658,390  
Bergen: 277,391  
Trondheim: 187,353

### Mid size cities

Stavanger: 132,644  
Bærum: 113,659  
Kristiansand: 88,447  
Fredrikstad: 78,967  
Tromsø: 73,480



## NETHERLANDS

Population density: 505 inhabitants/km<sup>2</sup>  
% living in urban areas: 91%  
Average commuting time: 50 min/day

### Big cities

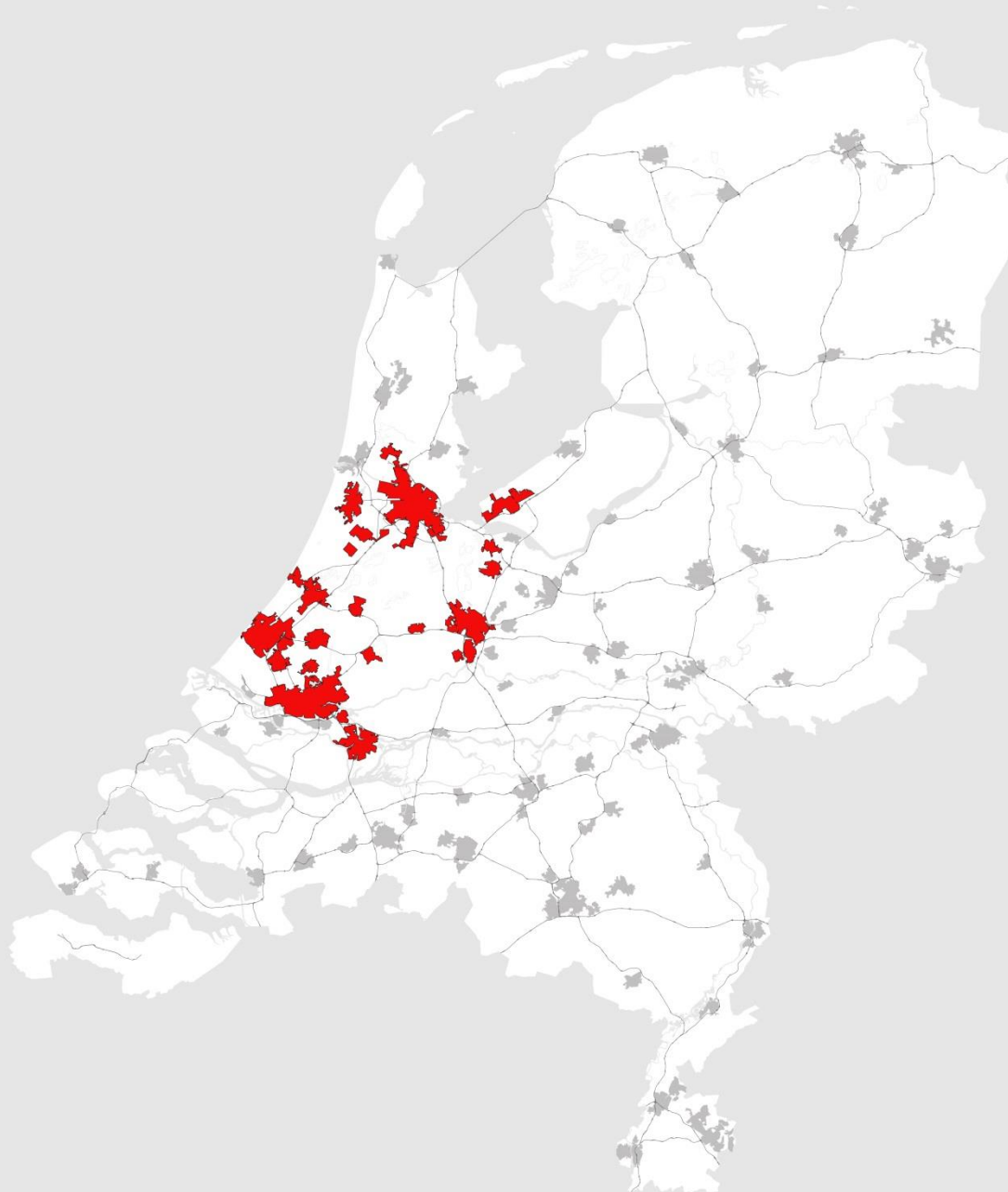
Amsterdam: 741,636  
Rotterdam: 598,199  
Den Haag: 474,292  
Utrecht: 290,529  
Eindhoven: 209,620

### Mid size cities

Tilburg: 199,613  
Groningen: 181,194  
Almere: 176,432  
Breda: 167,673  
Nijmegen: 158,732  
  
Hilversum: 88,008



# Randstad



# Urbanisation

## OSLO REGION

Inhabitants: 1,4 milj.

Population density: 160 inhabitants/km<sup>2</sup>



## RANDSTAD

Inhabitants: 7,1 milj.

Population density: 1.500 inhabitants/km<sup>2</sup>





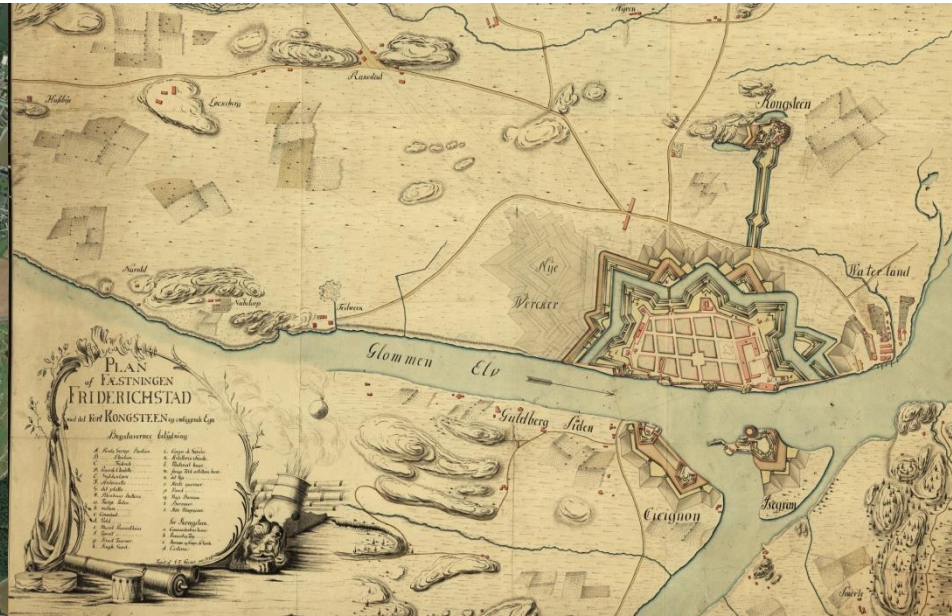


# Rotterdam – harbour city



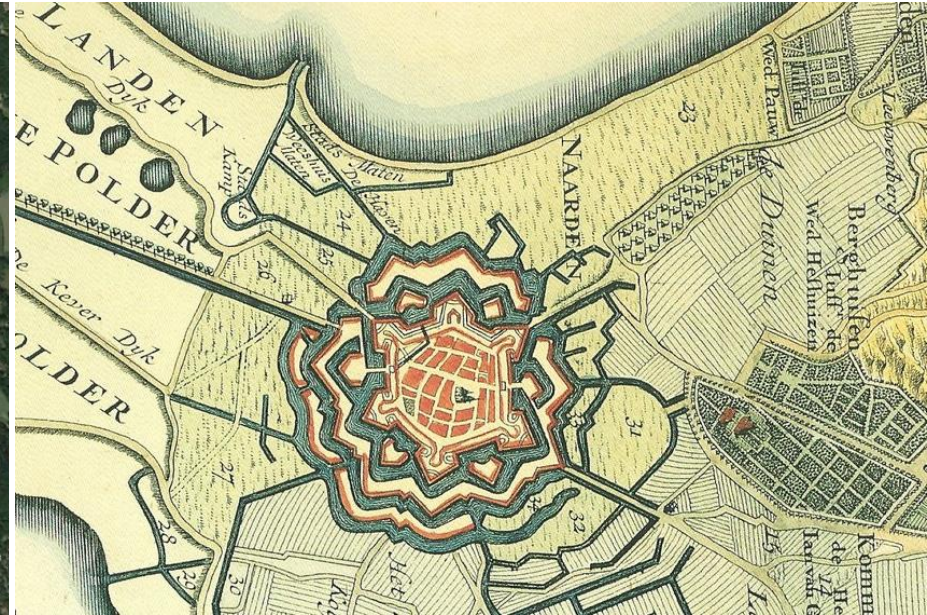


# Frederikstad – fortified city



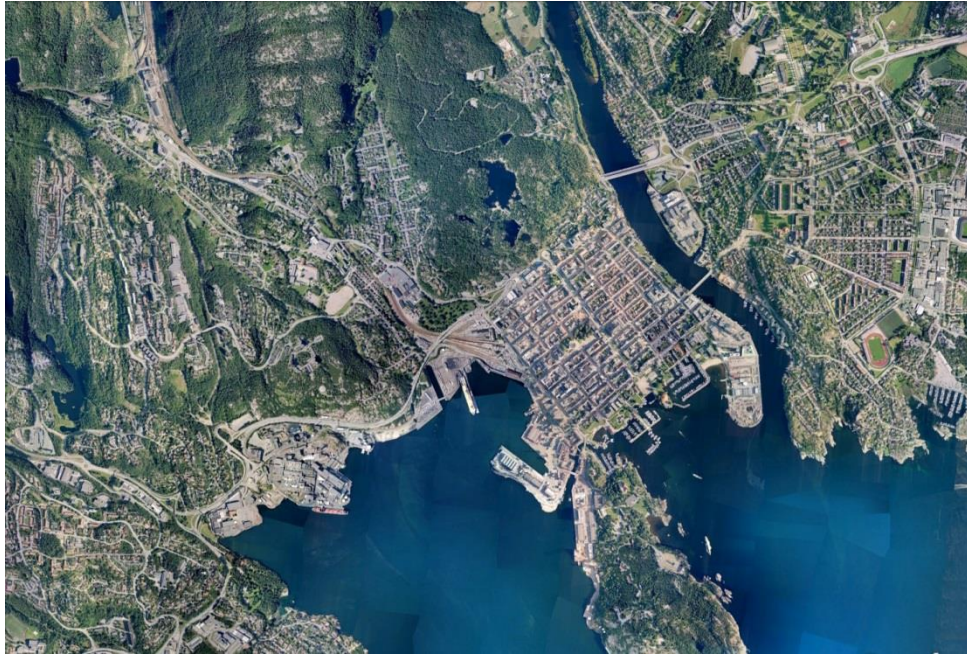


# Naarden – fortified city





# Kristiansand - gridstructure

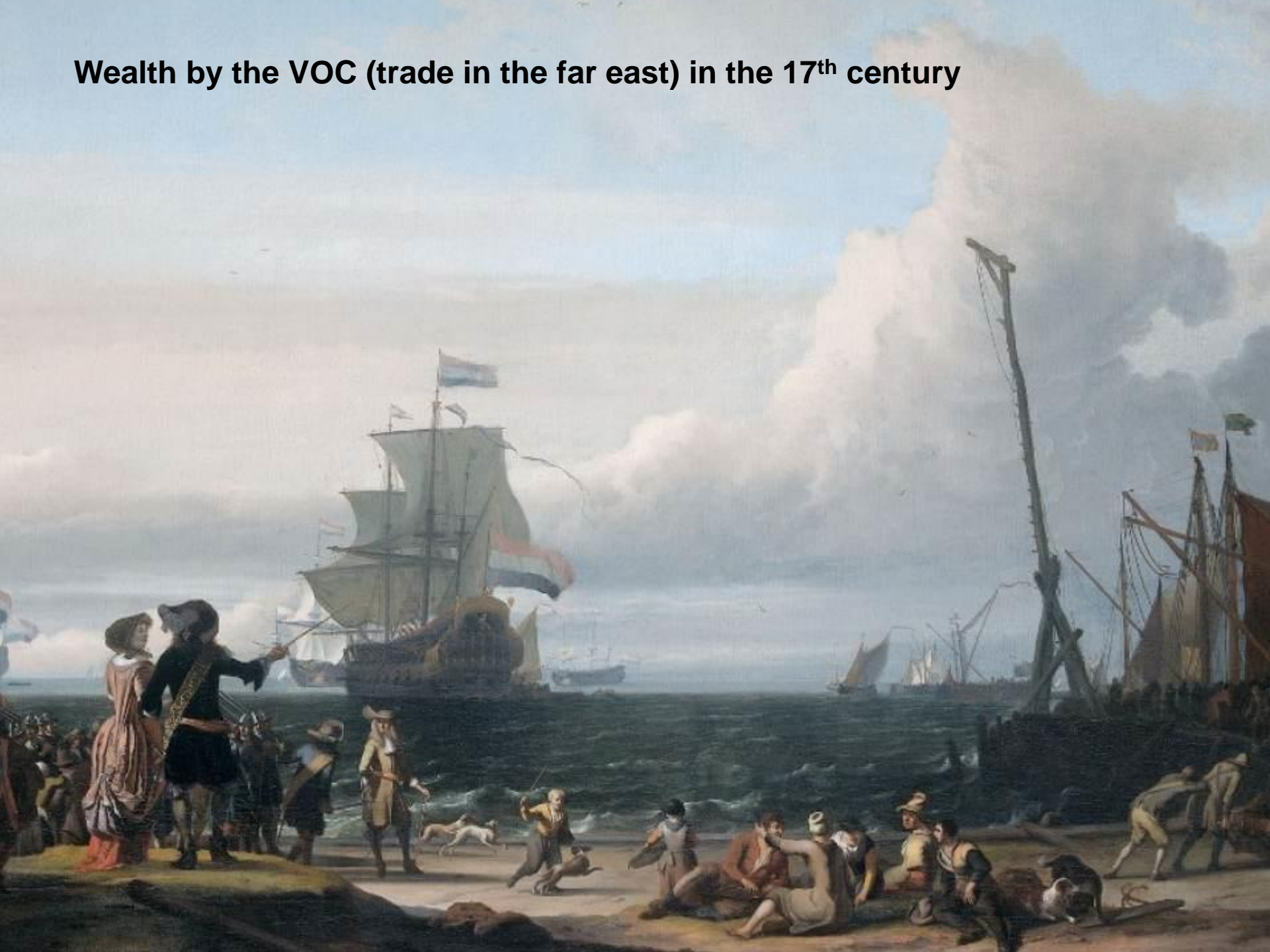




# Elburg – grid structure.....?



# Wealth by the VOC (trade in the far east) in the 17<sup>th</sup> century





AMSTELODAMI VETERIS ET NOVISSIMÆ VRBIS ACCVRATISSIMA DELINEATIO.

AENWYSSINGHE

Met de Nieuwe Begijnen der Stad van de Deltaverreder.

1. De Begijnen
2. De Nieuwe Begijnen
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39. De Nieuwe Begijnen
40. De Nieuwe Begijnen

Schale van 3000 Amstelams voetren.

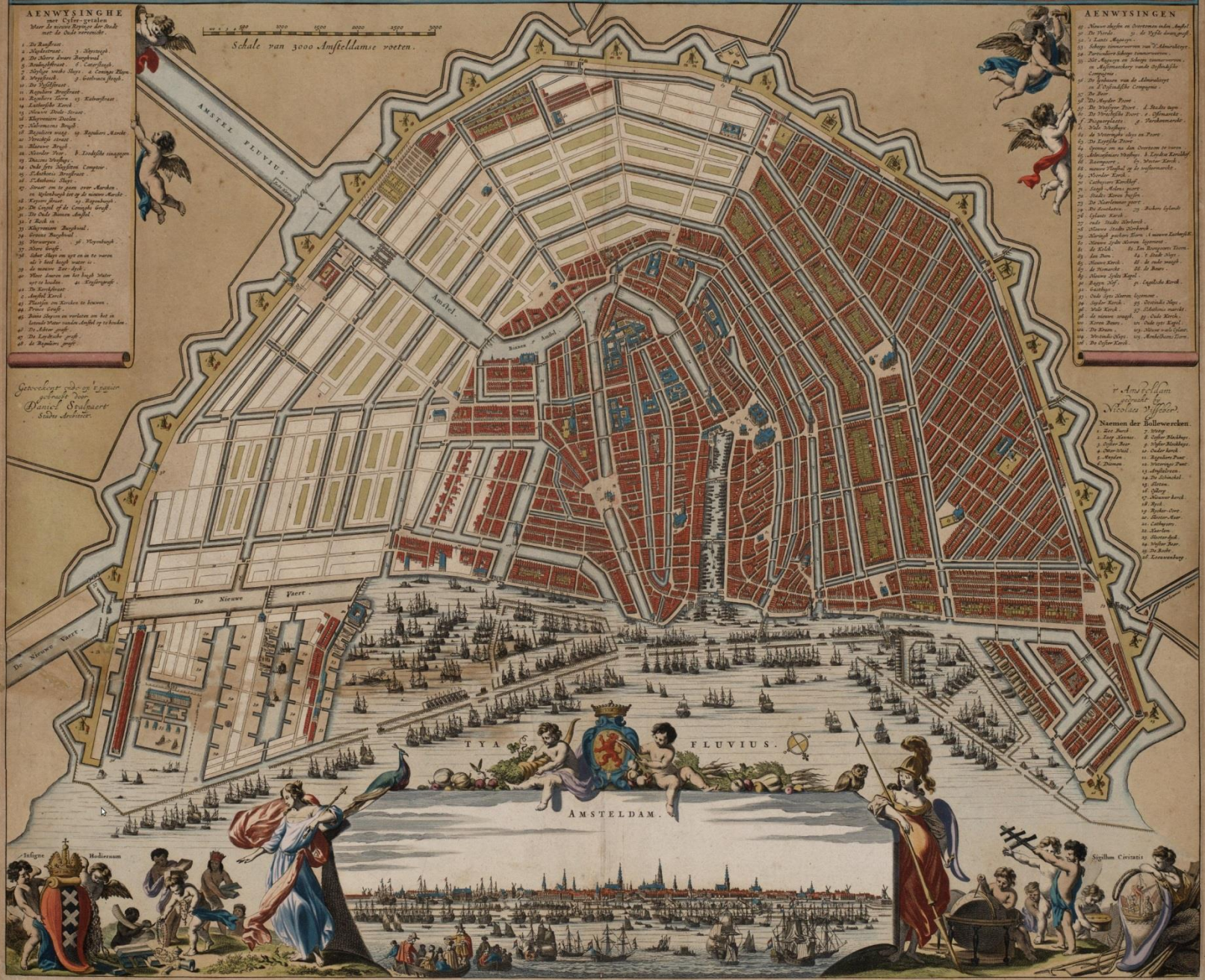
AENWYSSINGEN

41. De Nieuwe Begijnen
42. De Nieuwe Begijnen
43. De Nieuwe Begijnen
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78. De Nieuwe Begijnen
79. De Nieuwe Begijnen
80. De Nieuwe Begijnen

Genealogie van de Nieuwe Begijnen  
gevolgt door  
Daniel Spilmaert  
Sidae de Breda.

Amstelodam  
gevolgt door  
Nicolaus Visscher

- Naamen der Kollwercken.
1. De Nieuwe Begijnen
  2. De Nieuwe Begijnen
  3. De Nieuwe Begijnen
  4. De Nieuwe Begijnen
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  26. De Nieuwe Begijnen
  27. De Nieuwe Begijnen
  28. De Nieuwe Begijnen
  29. De Nieuwe Begijnen
  30. De Nieuwe Begijnen





# Amsterdam canals





Trompenburg estate







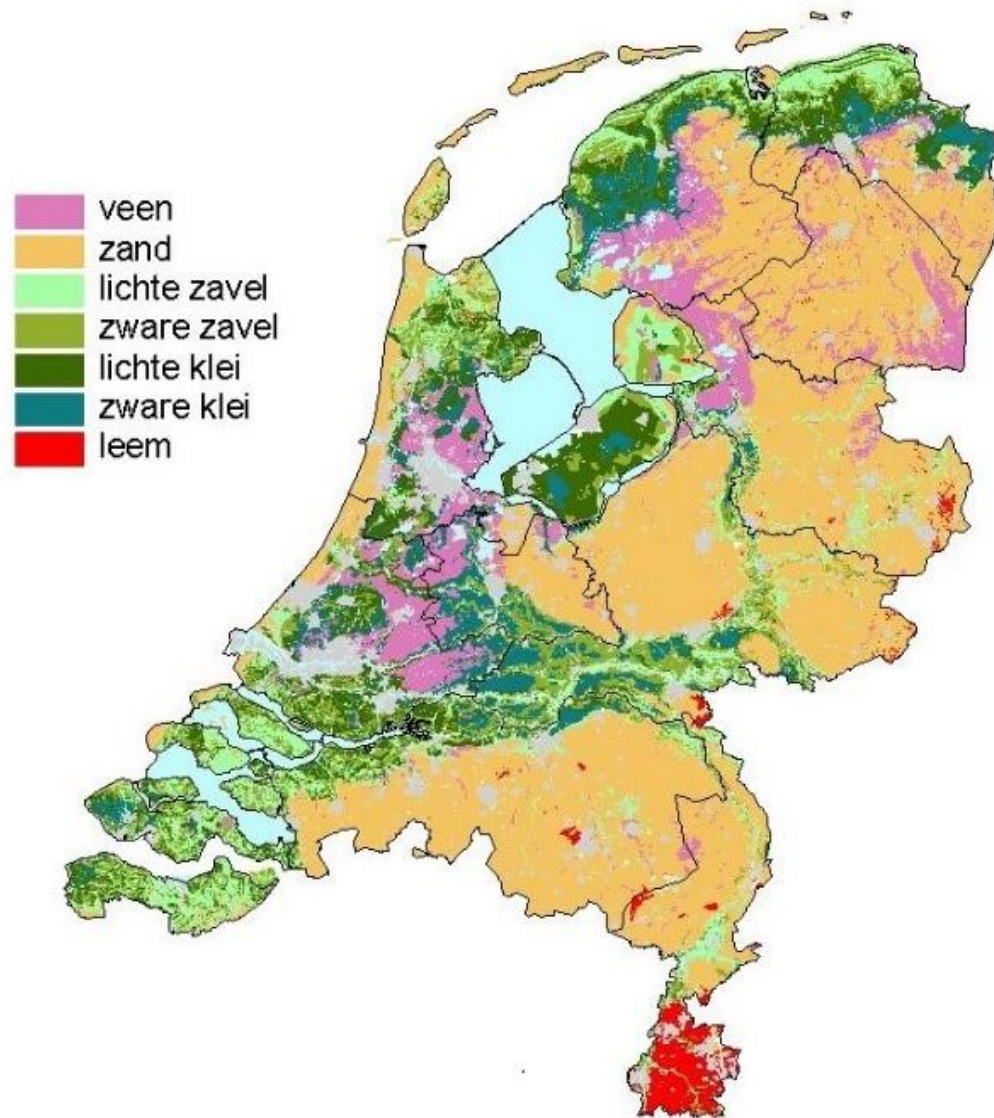
# The Dutch landscape







# Dutch soils

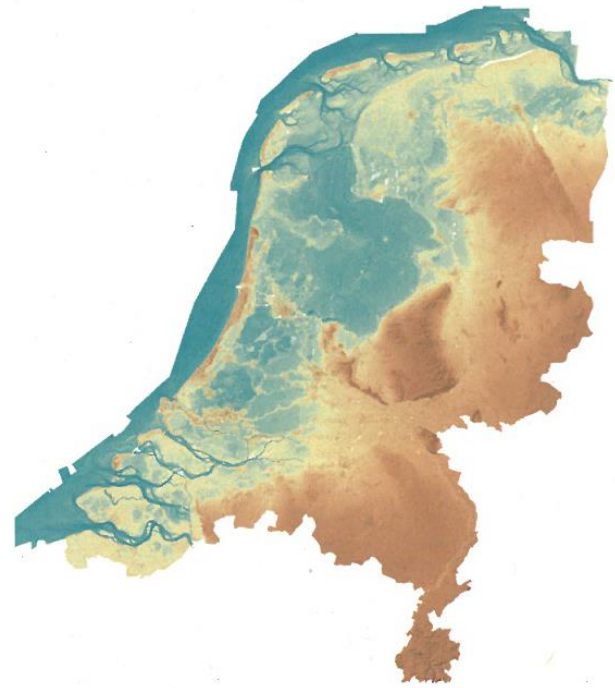


**Holland is the sink of Europe**





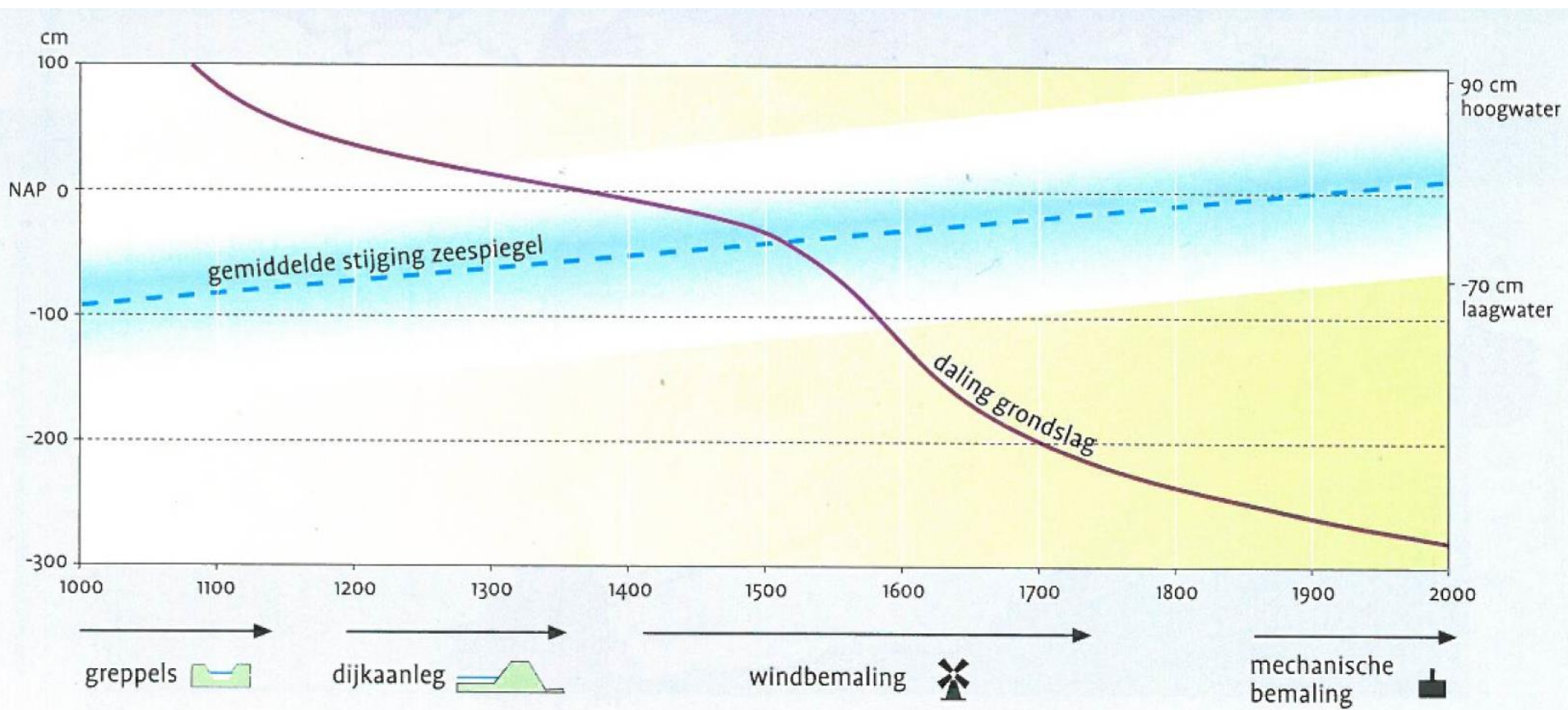
# 60% of the Netherlands is below sea-level



**Population of 16.9 mio**  
**9 mio people live below sealevel**





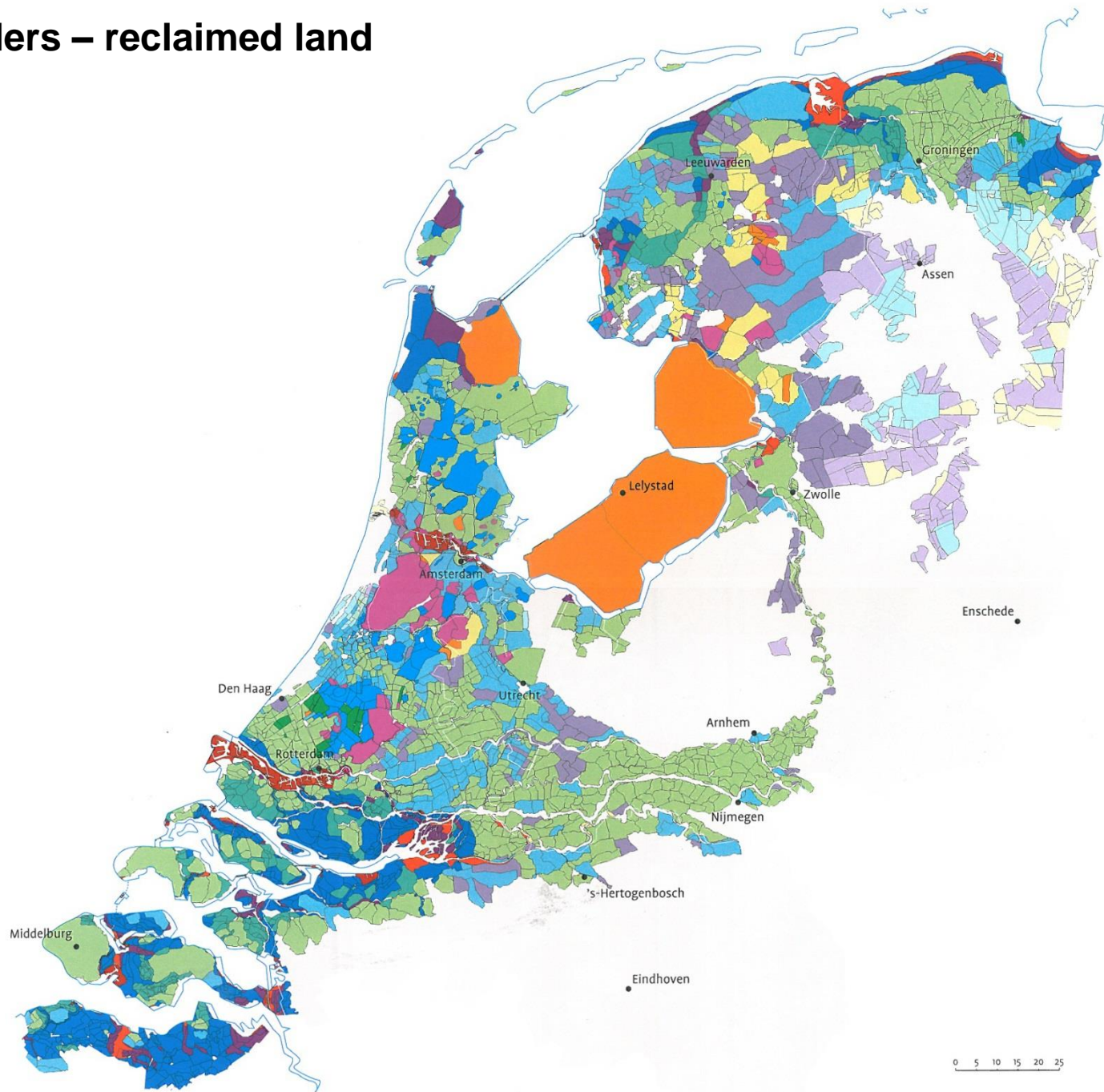


# Reclaimed land





# Polders – reclaimed land





# Reclamation of the Zuyder Zee

## Plan Lely (1891 / 1918)



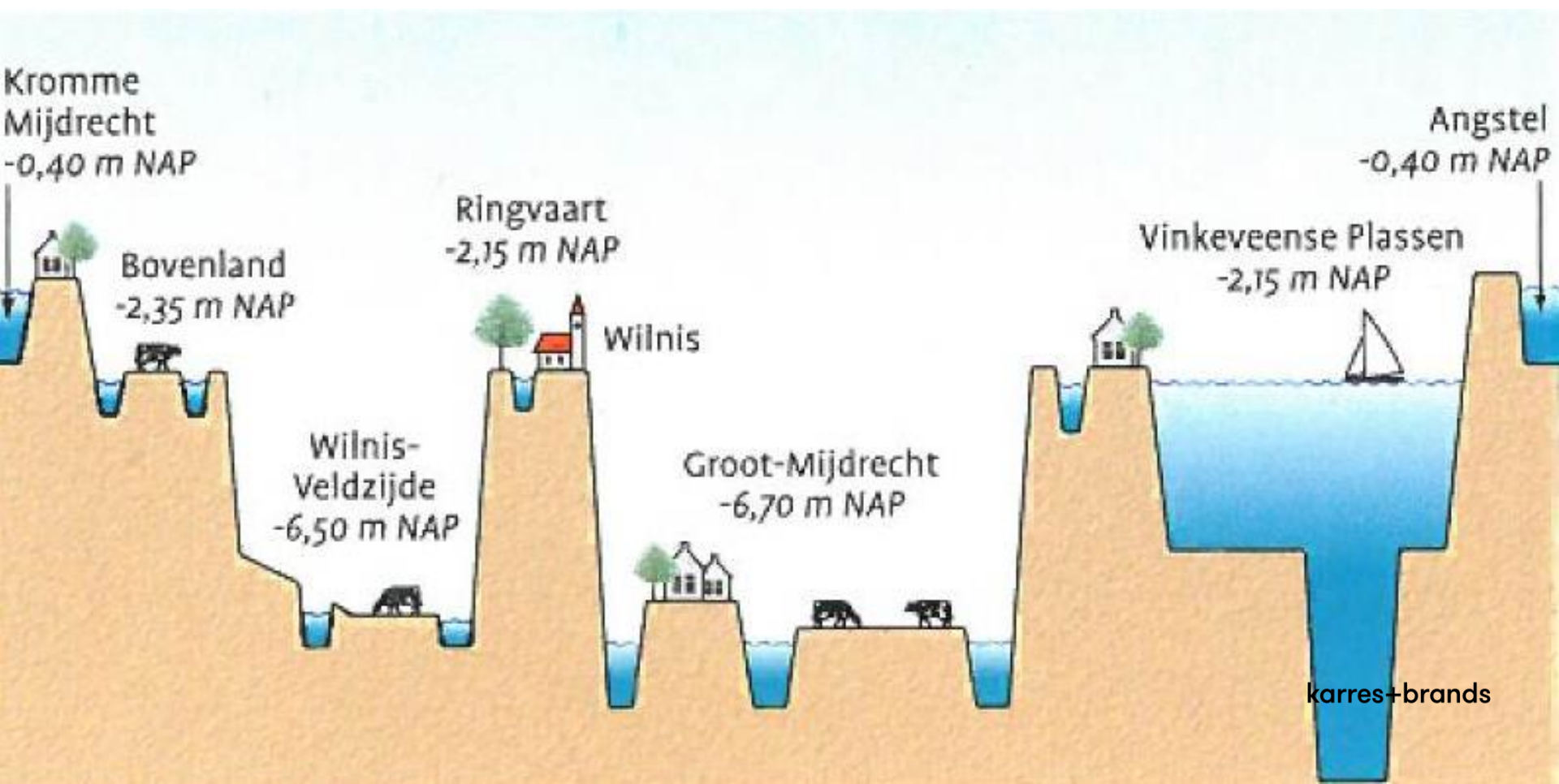








## Ingenious system of water levels





# Drainage mills and polder reservoirs





# Steam driven pumping-engine





# Modern pumping station



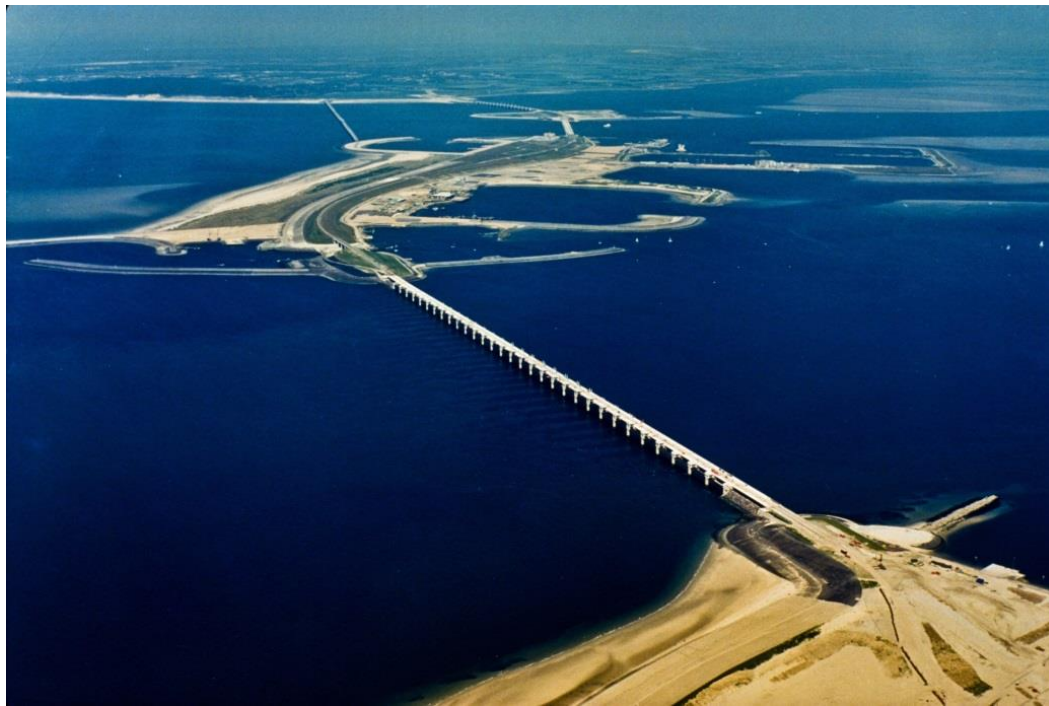


# Watersnoodramp – The Flood of 1953

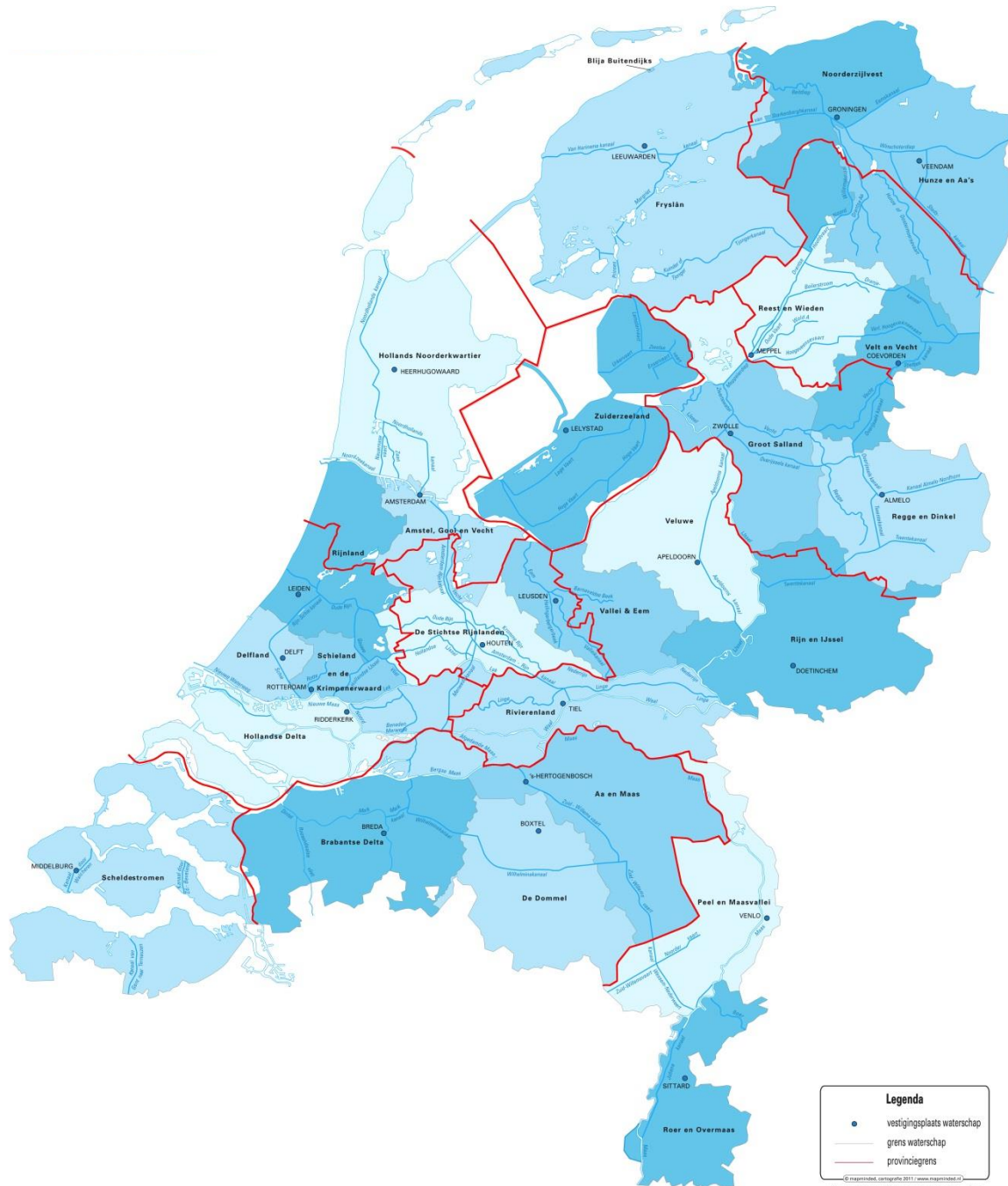








# Water Boards



**Legenda**

- vestigingsplaats waterschap
- grens waterschap
- provinciegrens

© mapamedia.com/mg/2011/www.mapamedia.nl  
Uitgever: Unie van Waterschappen, Den Haag, 2011



# Fighting the water





Loving the water

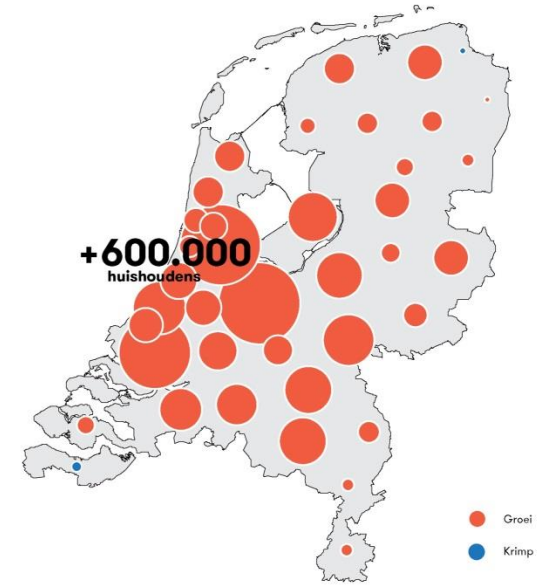
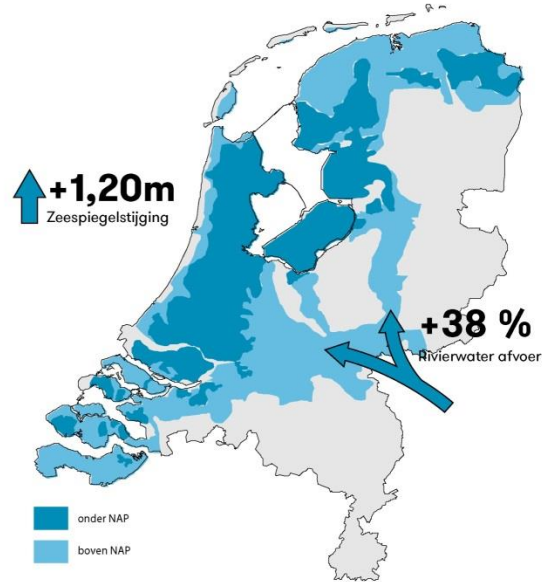


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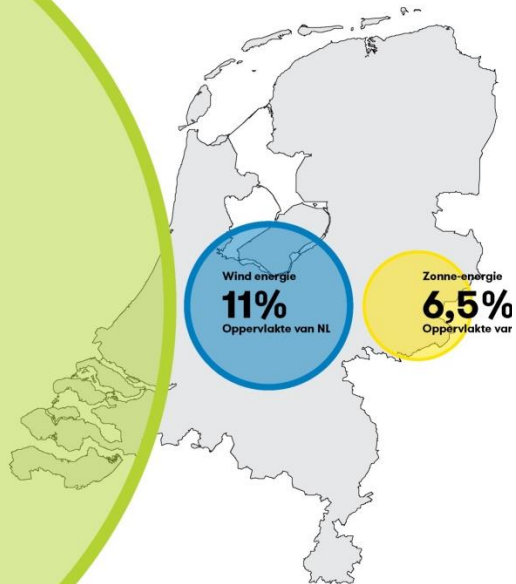


# Future challenges

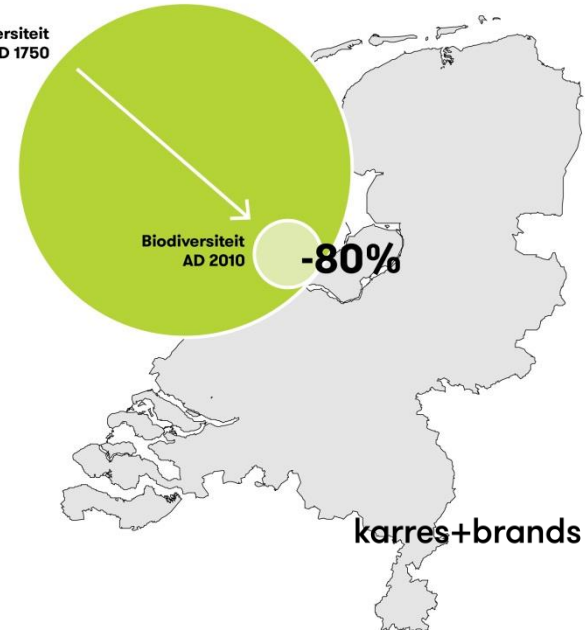
# Challenges for the future



Biomassa  
**320%**  
Oppervlakte van NL

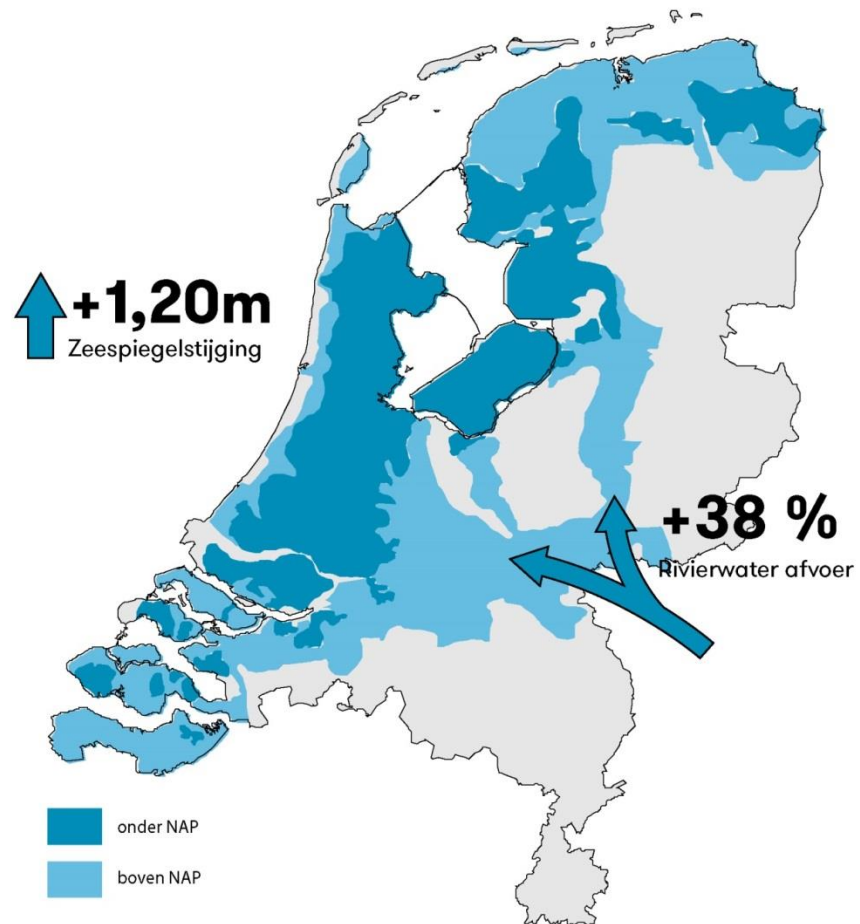


Biodiversiteit  
AD 1750





# Subsidence / Sea level rise



# National Delta Program





# Coast protection



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© Foto van Dijk



2003





2009

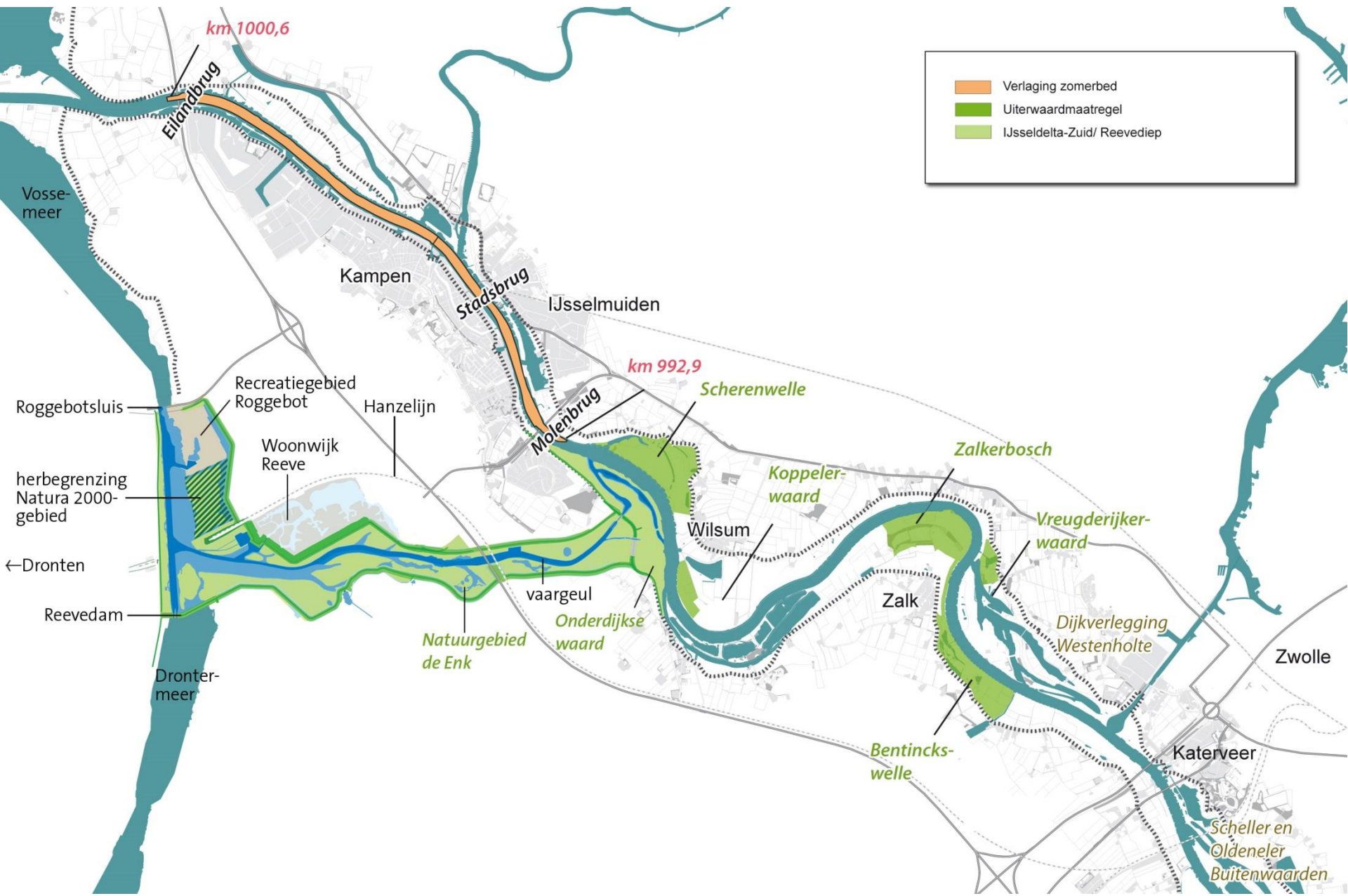


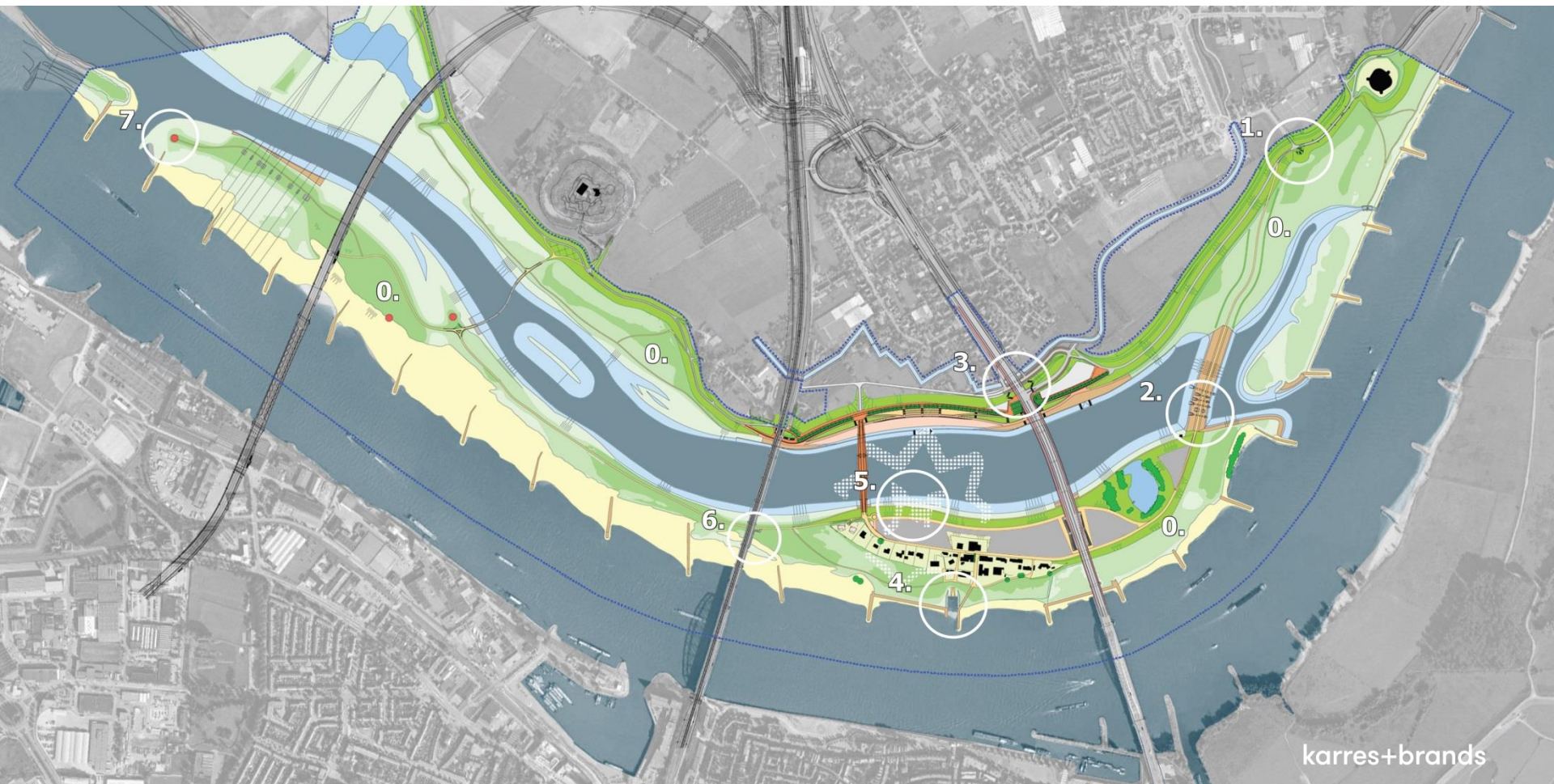


# National project "Room for the River"















# KIJK – Dike reinforcement Hollandse IJssel

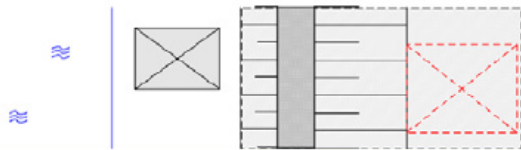
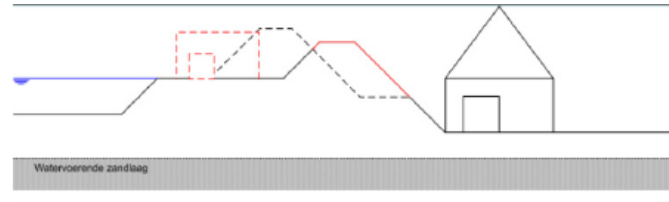
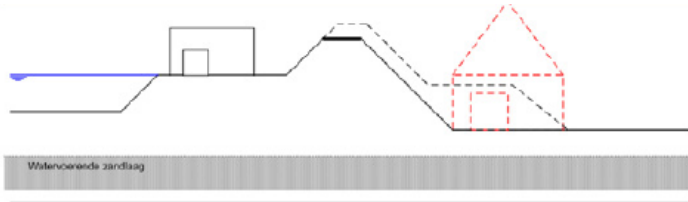




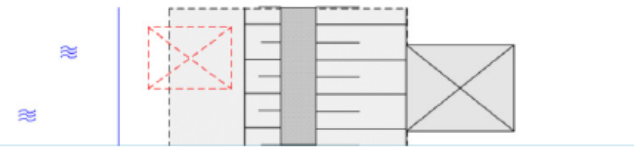




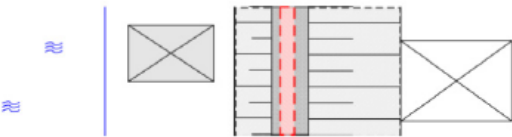
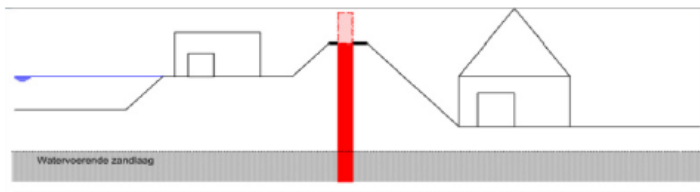
# KIJK – Dike reinforcement Hollandse IJssel



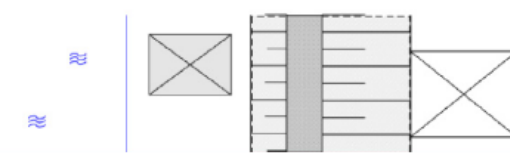
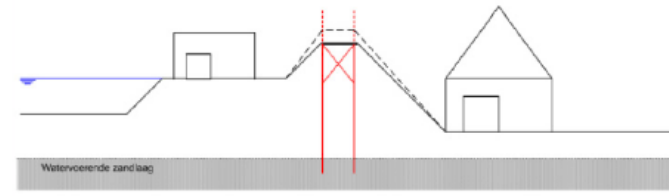
- Binnenwaartse grondoplossing



- Buitenwaartse grondoplossing



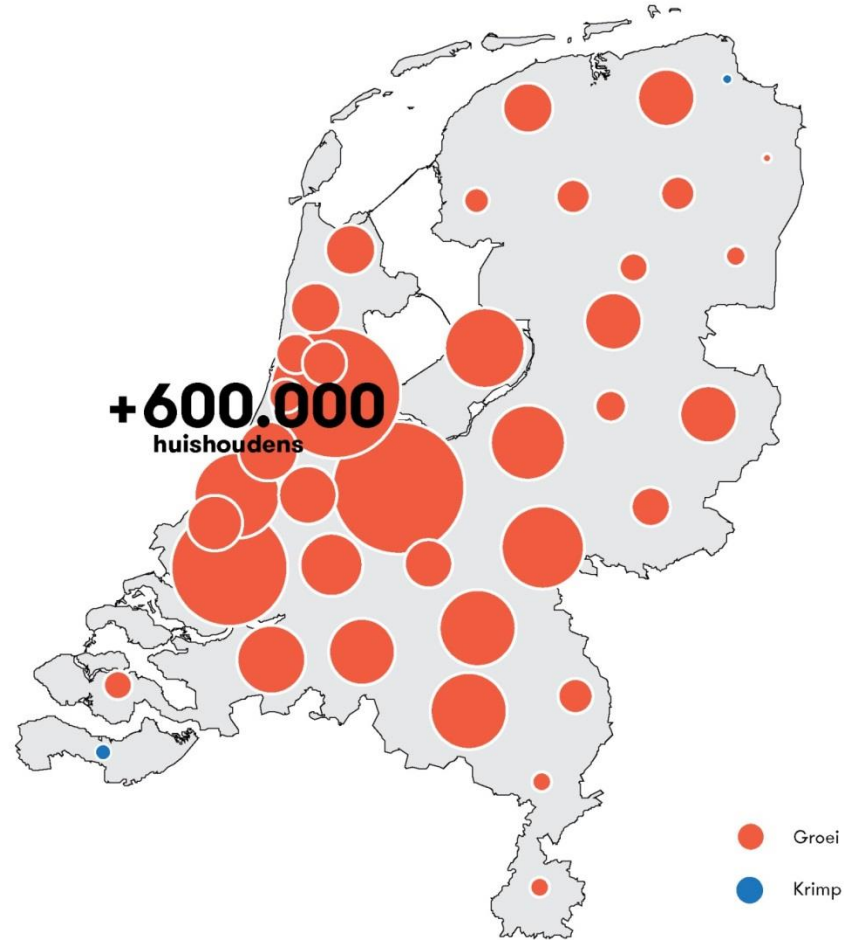
- Damwand/Diepwand



- Kistdam



# Population growth



# Amsterdam region 2040: + 250,000 households

## Visie Amsterdam 2040

### Waterfront

- wonen - werken
- werken - wonen
- werken
- projecten in planvorming of recent gerealiseerd

### Uitrol

- wonen - werken
- werken - wonen
- beperkte kwaliteitsimpuls stadsstraten en -pleinen
- kwaliteitsimpuls stadsstraten
- kwaliteitsimpuls pleinen
- Marine etablissement
- kwaliteitsimpuls stadspark

### Zuidflank

- Zuidas
- wonen - werken
- werken - wonen
- werken
- projecten in planvorming of recent gerealiseerd

### Metropolitain landschap

- 1. Amstelscheg
- 2. Amsterdamse Bosscheg
- 3. Tuinen van west
- 4. Brettenzone
- 5. Zaansecheg
- 6. Waterland
- 7. Diemerscheg
- 8. IJmeerscheg

### Algemeen

- capaciteitsuitbreiding snelweg bovengronds
- capaciteitsuitbreiding snelweg ondergronds
- hogesnelheidslijn
- HOV (bus/tram/metro) bovengronds
- HOV (bus/tram/metro) ondergronds
- internationaal OV knooppunt
- hoofd OV knooppunt
- secundair OV knooppunt
- optie Regionaal Schiphol - Almere
- optie Oostwest metrolijn
- nieuwe pont-/veerverbinding
- ondergrondse verbinding
- P+R locatie
- zeesluis
- 2<sup>e</sup> zeecruise terminal
- wachtplaats binnenscheepvaart
- intensivering RAI-terrein
- topwinkelgebied
- intensivering haven
- stadsverzorgend bedrijventerrein
- kwaliteitsimpuls stadsdeelcentrum
- jachthaven
- zoeklocatie uitbreiding havengebied
- (grond-)water gerelateerd project
- 2<sup>e</sup> terminal Schiphol
- optie locatie Olympische Spelen
- studiegebied
- regionale fietsroute
- Stelling van Amsterdam
- strand
- metropolitane plek
- recreatief programma
- suggestie natuurontwikkeling
- ontwikkeling waterrand
- kwaliteitsimpuls overgang stad-scheg
- Sportas
- Kompas-eiland en fietsbrug

\* Voor studiegebied Haven-Stad is scenario 3 weergegeven, met uitzondering van Buiksloterham. Voor het gehele studiegebied Haven-stad geldt dat naar aanleiding van toekomstige studies verschuivingen mogelijk zijn.

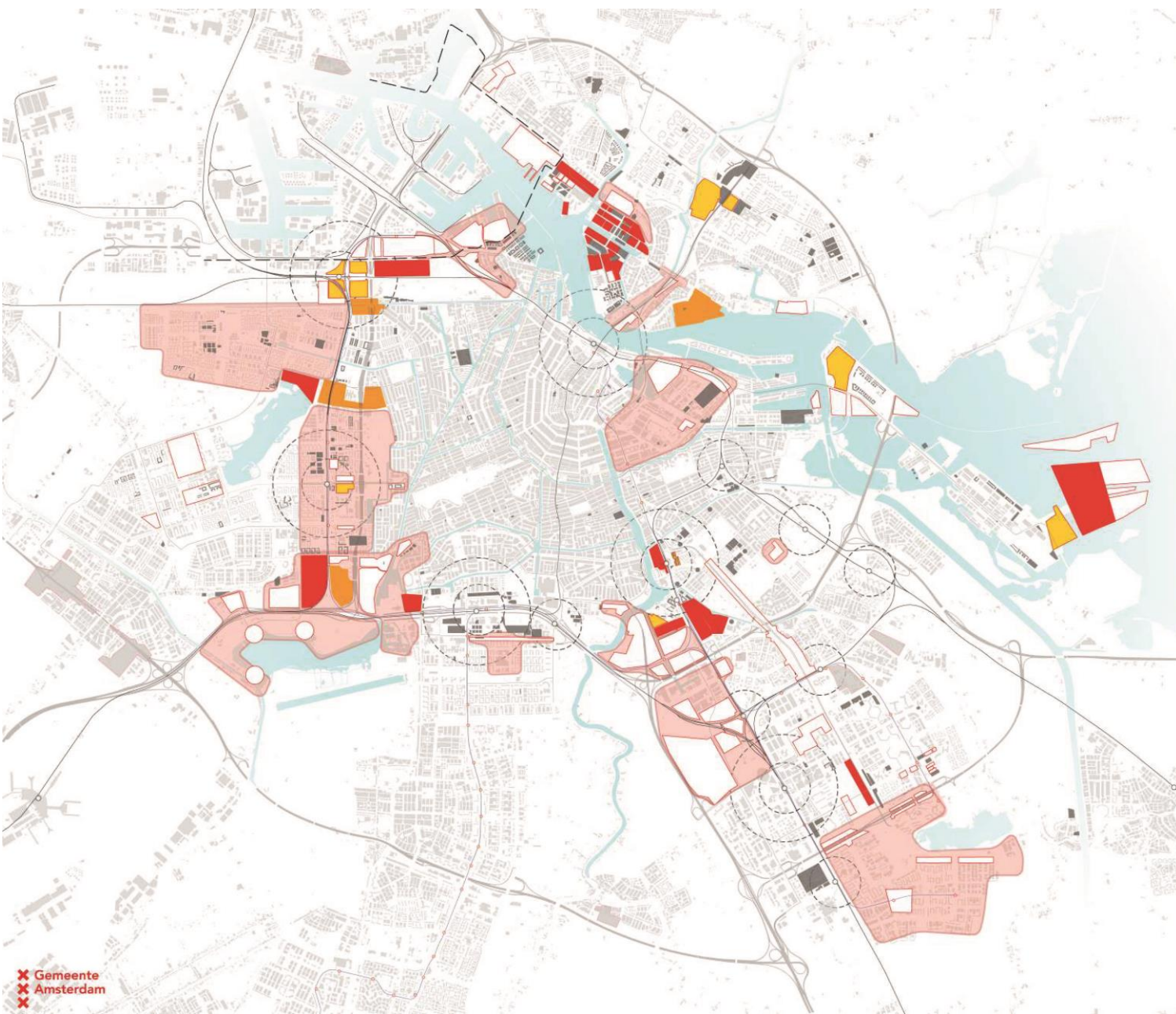
Mogelijke ontwikkelingen aan de zuidoever van de Gaasperplas zijn onderwerp van studie bij de Verkenning Gaasperdam.

\*\* Als uit de plannen van Haven-Stad blijkt dat een verbinding nodig is, dan wordt deze gerealiseerd in de vorm van een tunnel.





# City of Amsterdam 2025: + 50,000 households



## Ruimte voor de Stad Koers 2025

### LEGENDA

- Lopende projecten (RvEIS nov. 2015)
- Projecten buiten de gemeente Amsterdam (RvEIS nov. 2015)
- Versnellingslocatie 2014 Tranche 1 (investeringsbesluit)
- Versnellingslocatie 2014 Tranche 2 (strategiebesluit)
- Voorstel Nieuwe projecten 2016 Tranche 3
- Gebiedsuitwerking 2016 gericht op Nieuwe Projecten 2017-2018
- Strategische ruimte voor de stad ten behoeve van gebiedsontwikkeling na 2020
- - - Pas-op-de-Plaats convenant 2009
- OV-knooppunten

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Definitief  
Mei 2016 RVE Ruimte&Duurzaamheid

Ijburg 2002



karres+brands



Ijburg 2004



karres+brands



Ijburg 2010



karres+brands

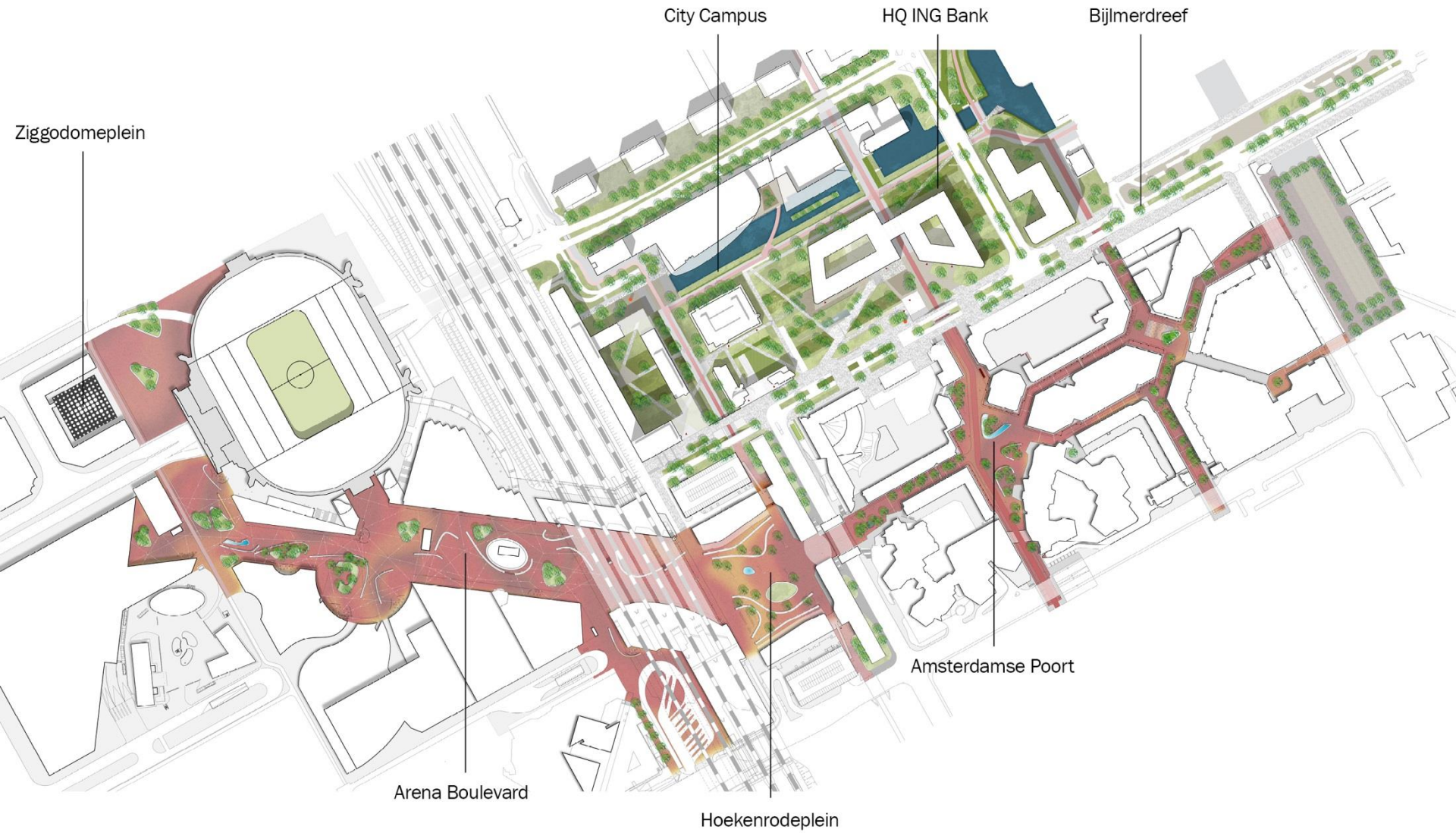


Ijburg 2014



karres+brands

# New city center Amsterdam South East





New railway station

Amsterdam Bijlmer ArenA



# New leisurecenter



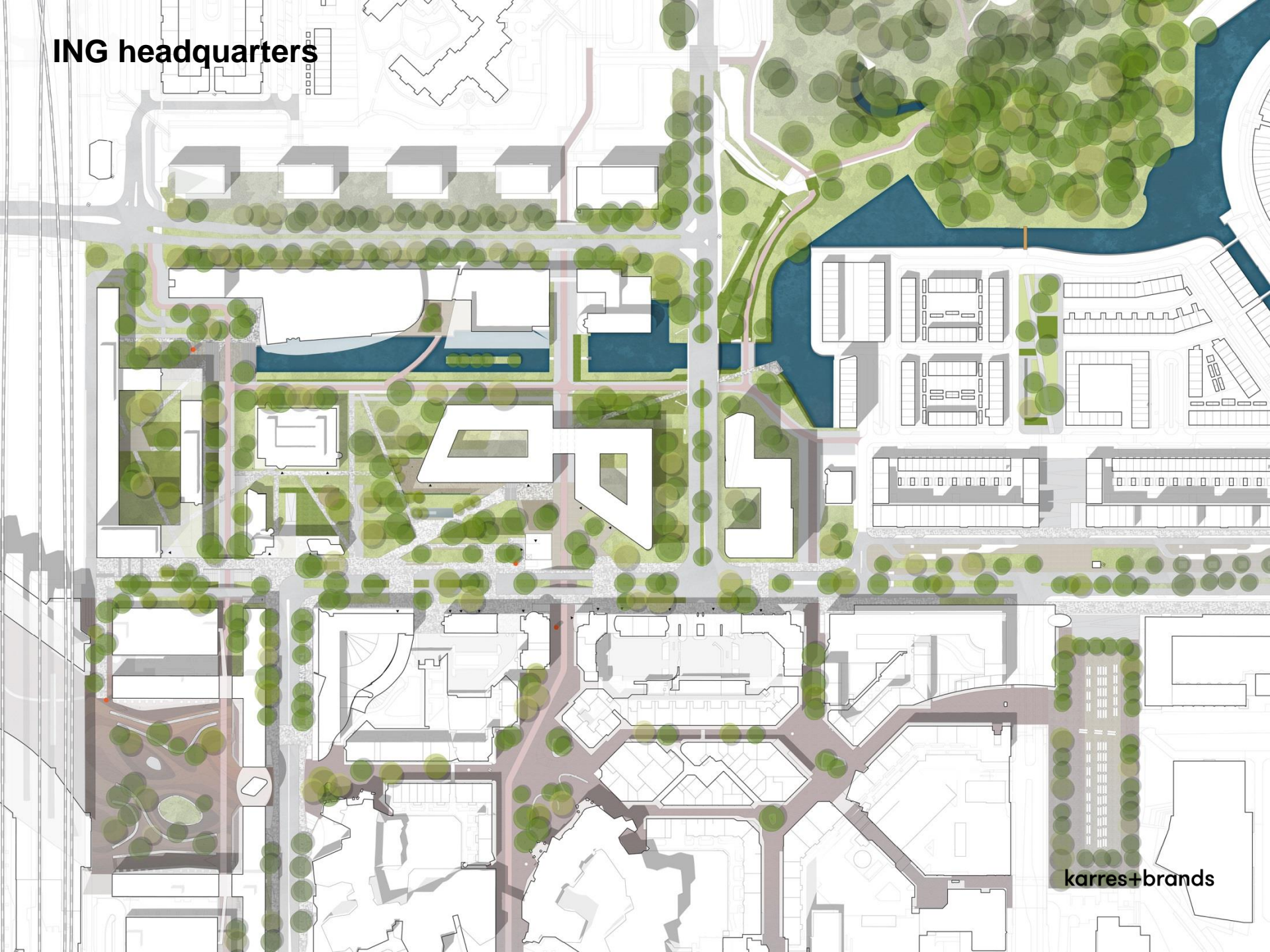


# Refurbishing of the shopping center





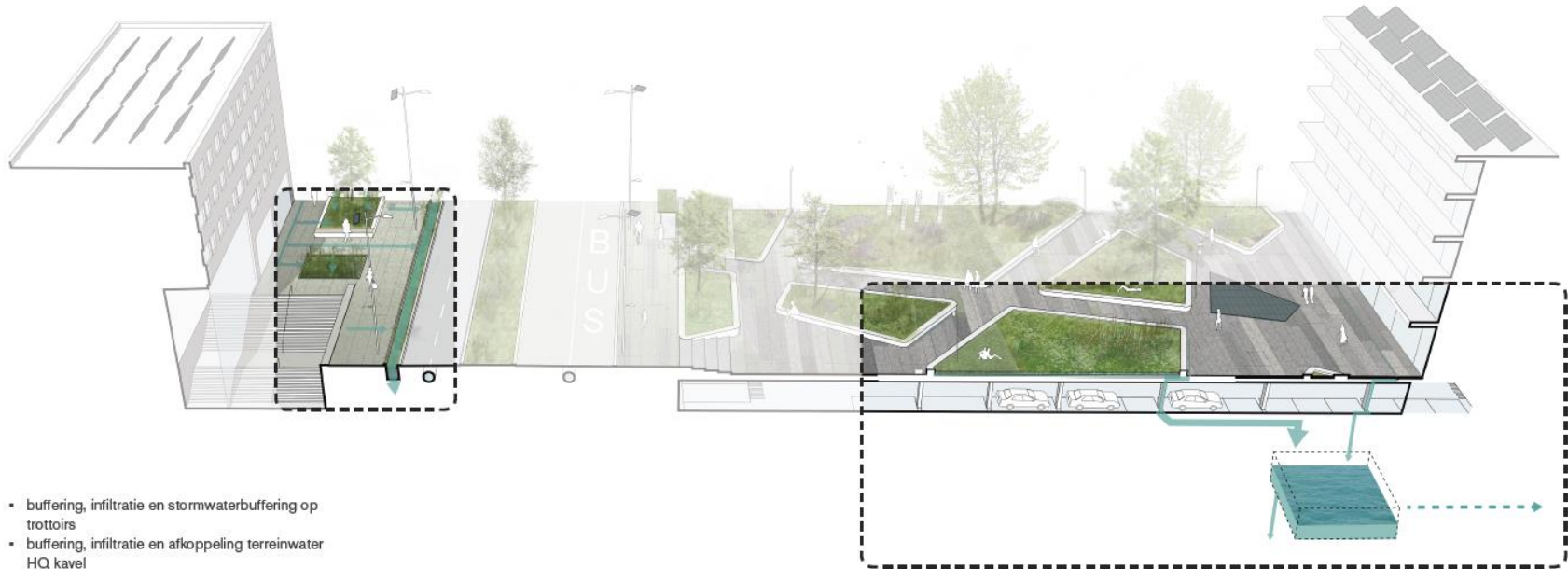
**ING headquarters**



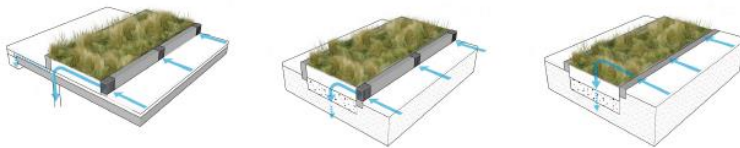
**karres+brands**



# Sustainable streets



- buffering, infiltratie en stormwaterbuffering op trottoirs
- buffering, infiltratie en afkoppeling terreinwater HQ kavel
- buffering en infiltratie Garzenhoefpad



# Urban transformation



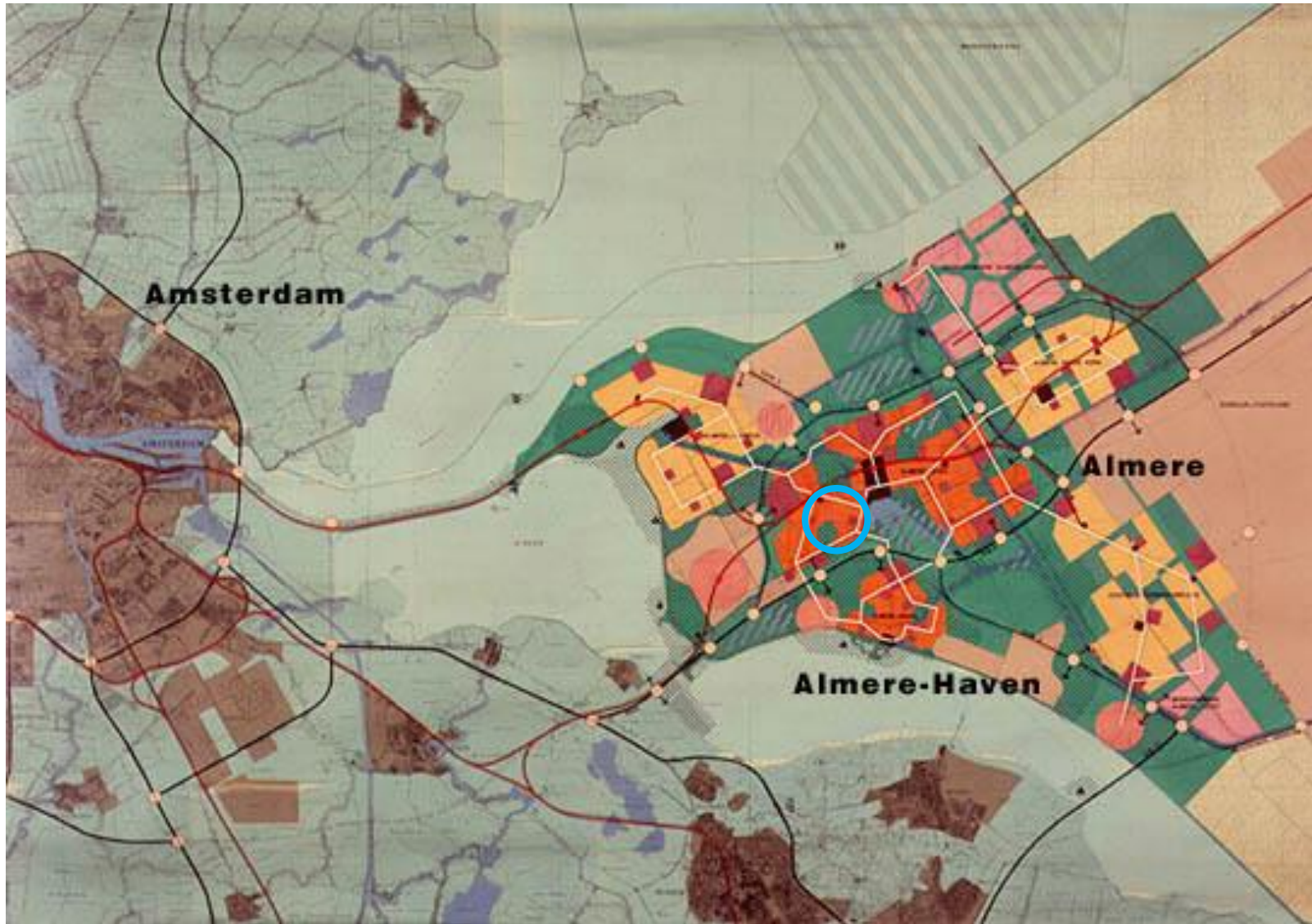
Current situation



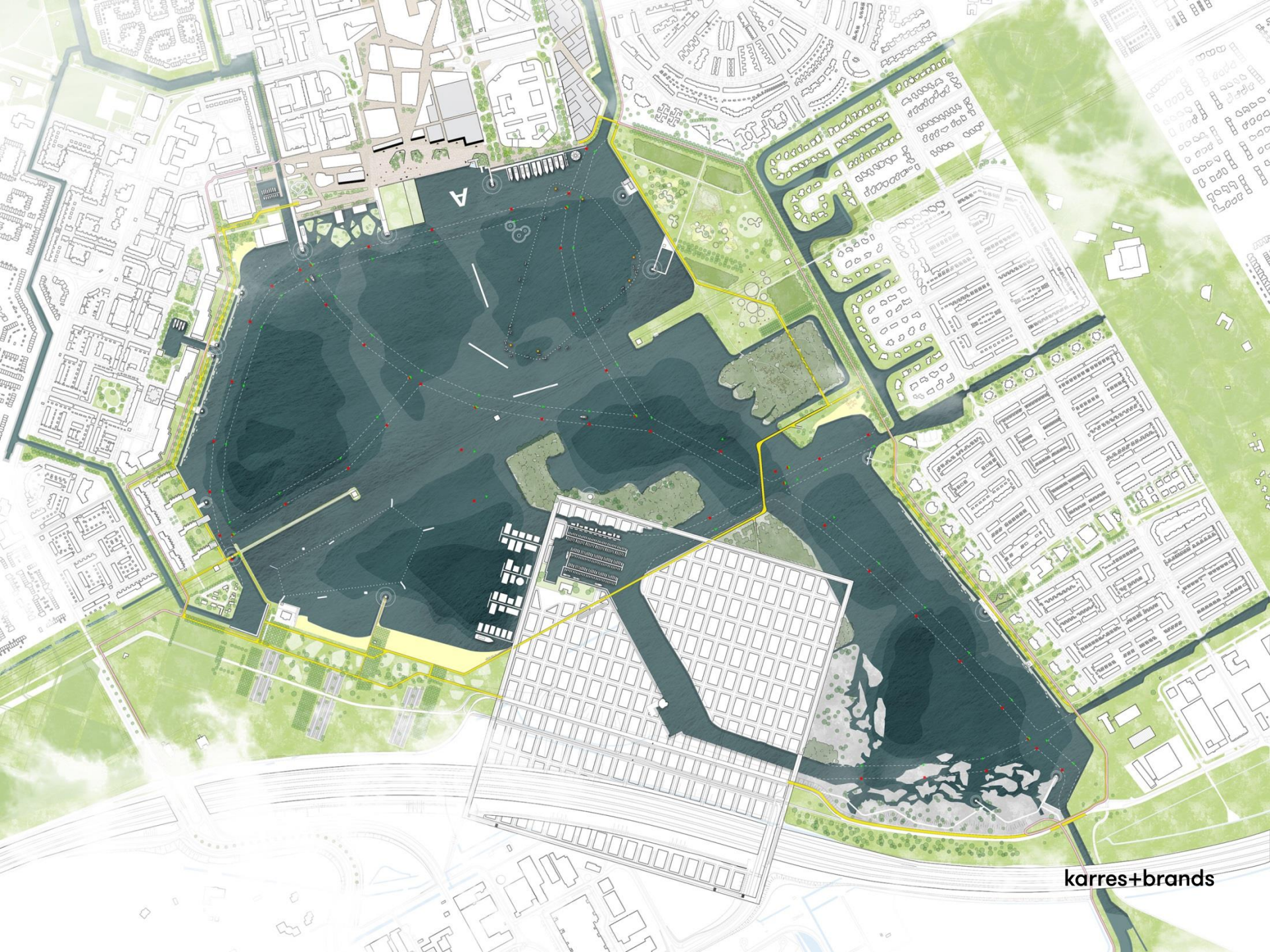
Future situation



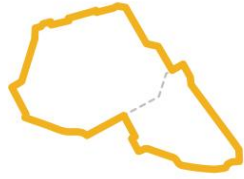
## Weerwater Route, Almere



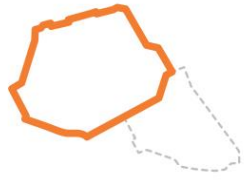
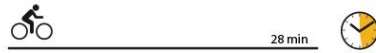




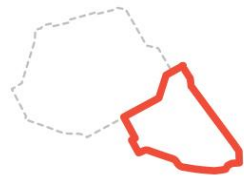




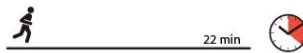
R1: 7 km



R2: 4.8 km

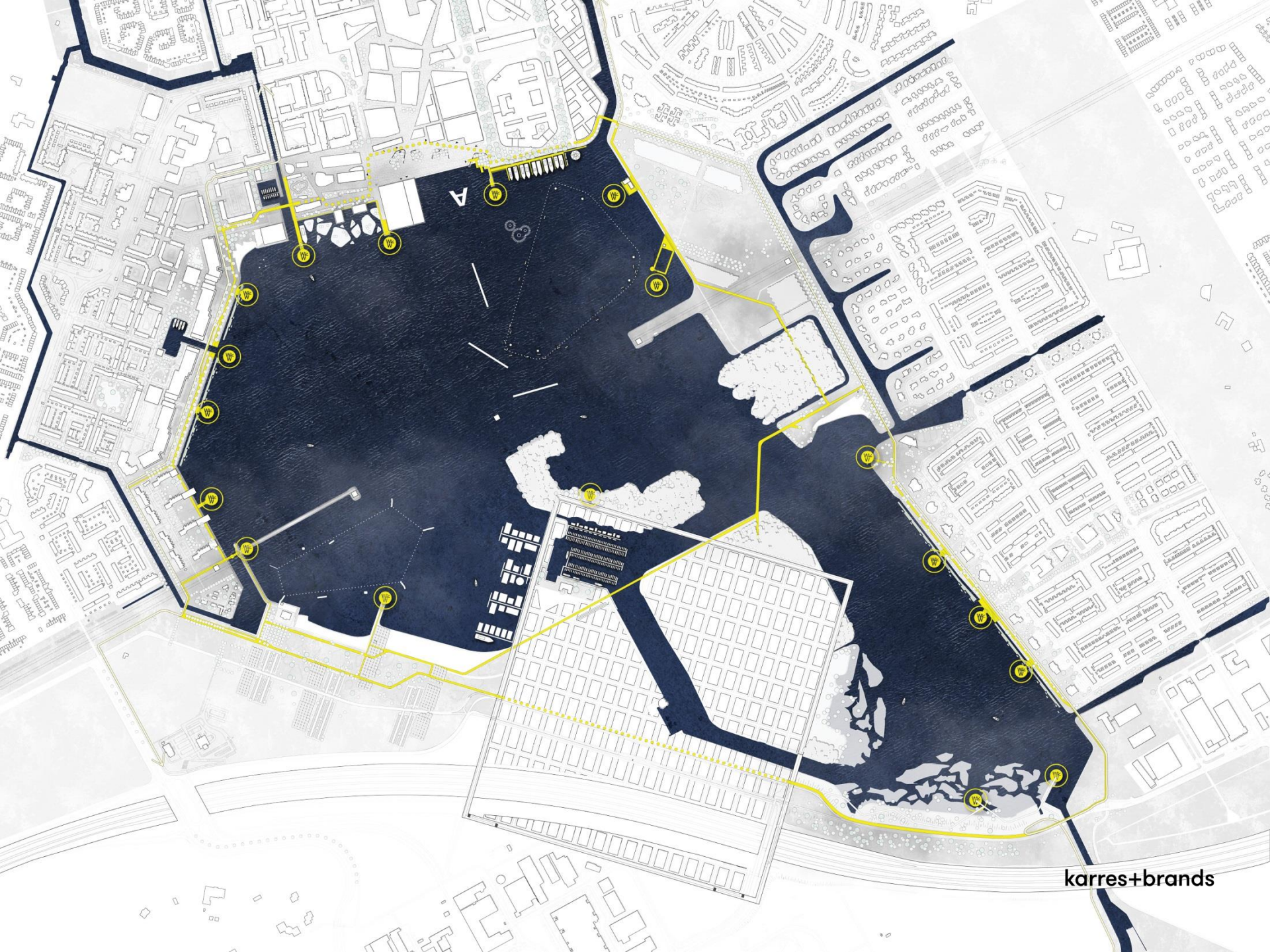


R3: 3.6 km









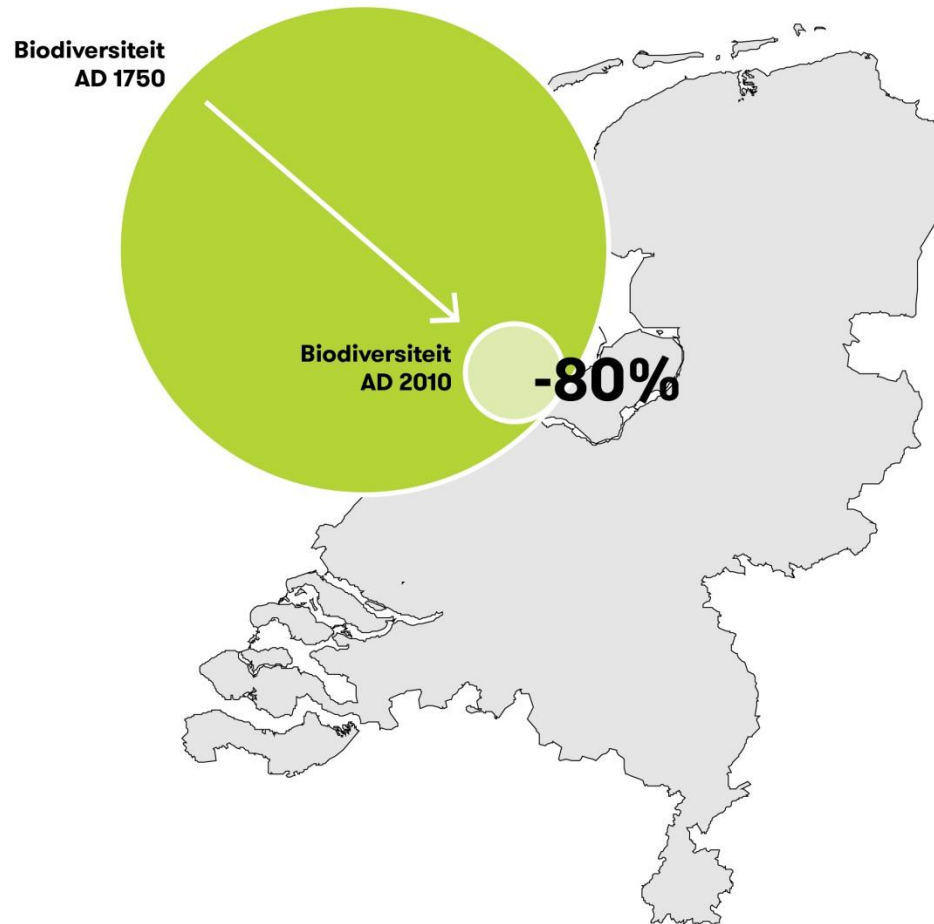








# Biodiversity decline





# Netherlands National Ecological Network

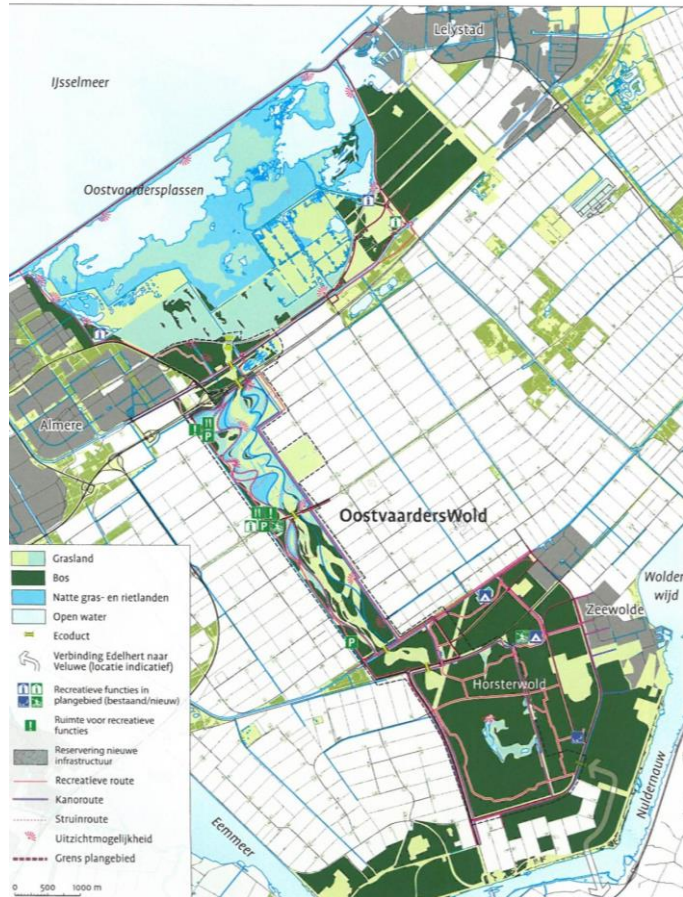








Plankaart OostvaardersWold



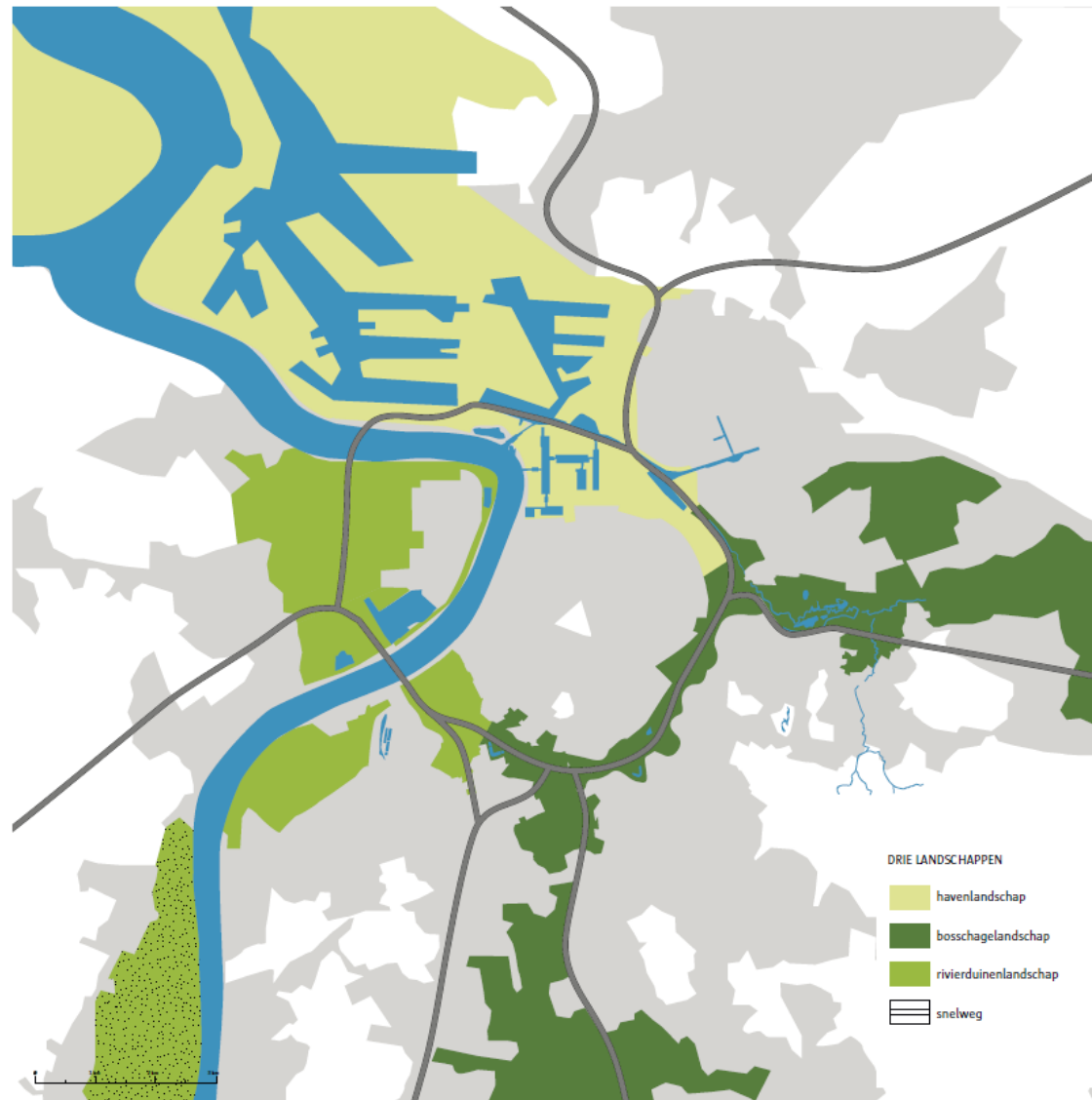


# Groene Singel, Antwerp (BE)





# Ecological network of 3 different landscape typologies





C

karres+brands

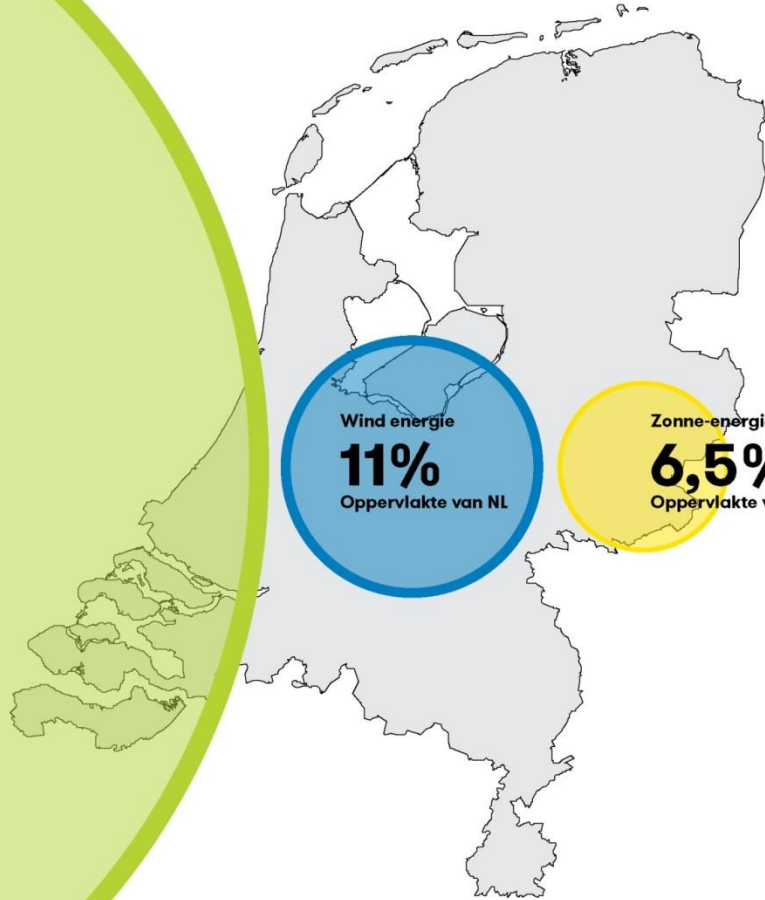


# Energy transition

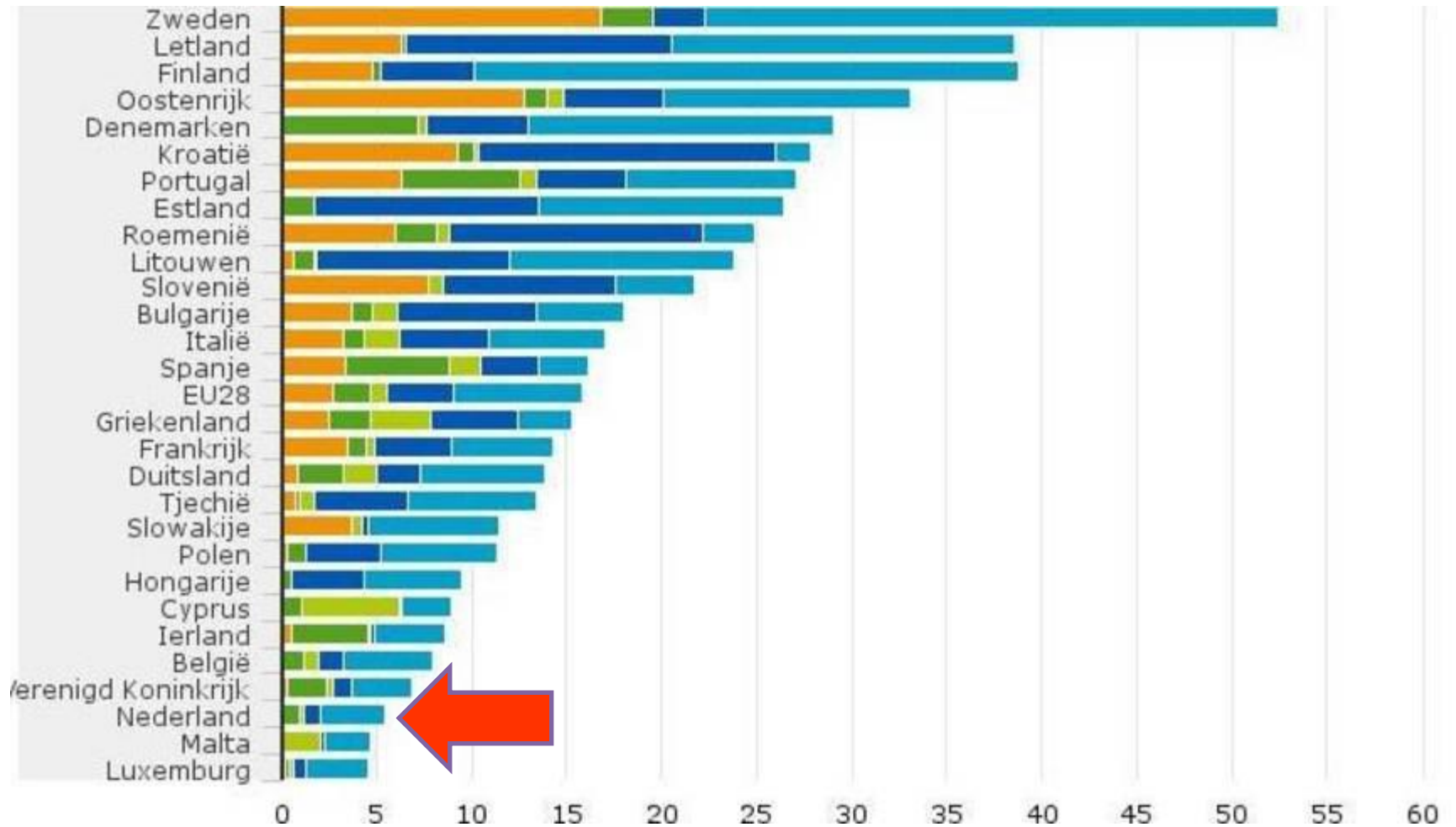
Biomassa  
**320%**  
Oppervlakte van NL

Wind energie  
**11%**  
Oppervlakte van NL

Zonne-energie  
**6,5%**  
Oppervlakte van NL



# The Netherlands are far behind!





**We have to search for alternatives for gas**





# Study of integration possibilities renewable energy A6 Highway

## A6 Almere

inpassingsstudie Duurzame Energie

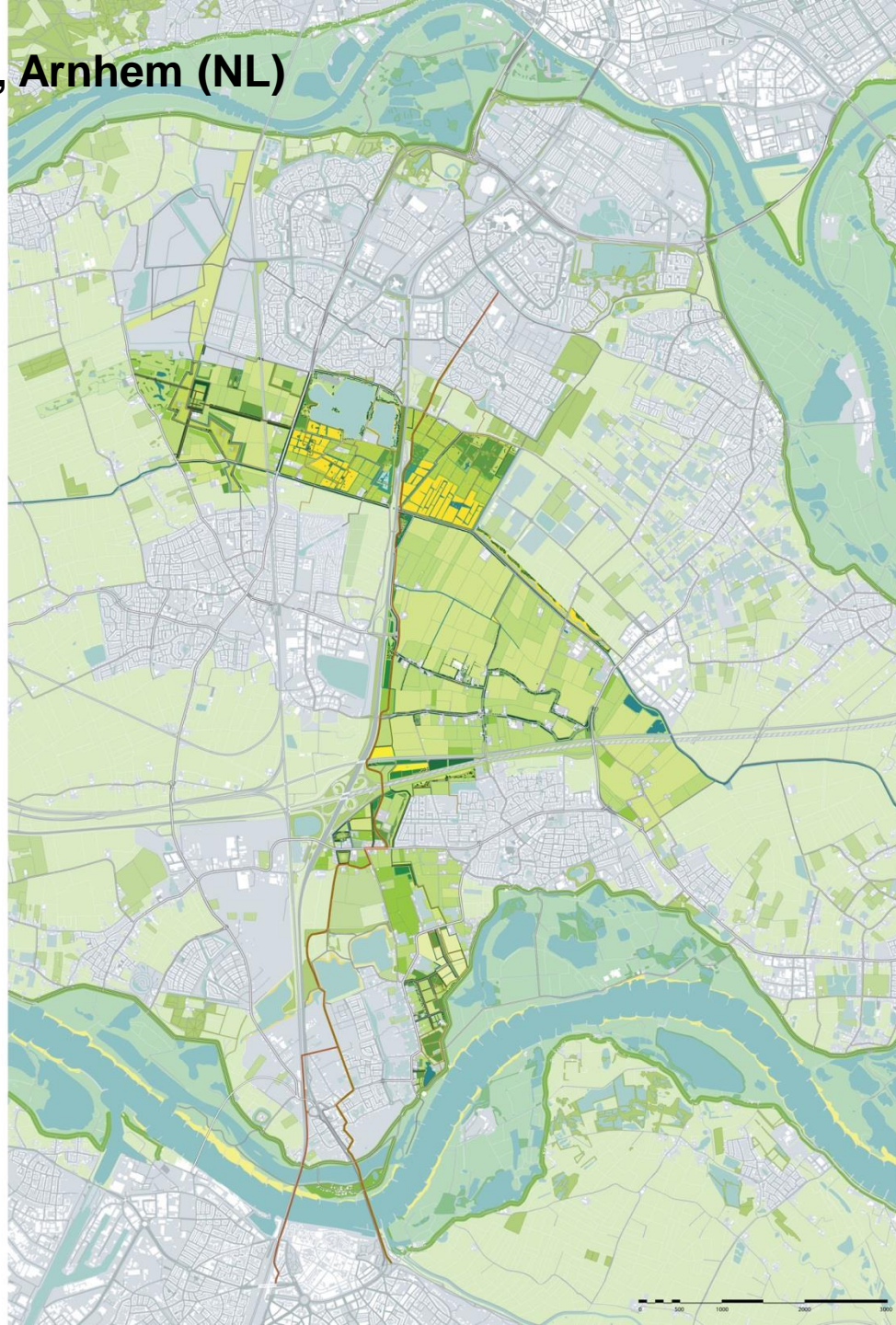
april 2014

**karres en brands** landschapsarchitecten bv  
in overleg met gemeente Almere en Rijkswaterstaat

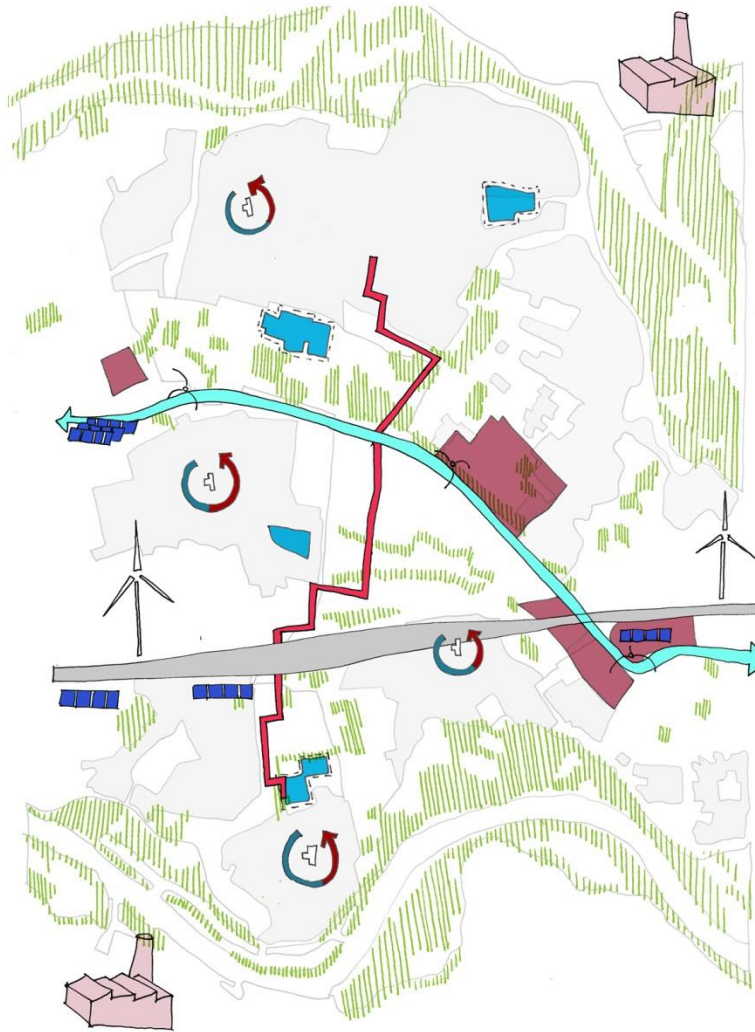
karres+brands



**Lingezegen Park, Arnhem (NL)**  
**1700 ha**

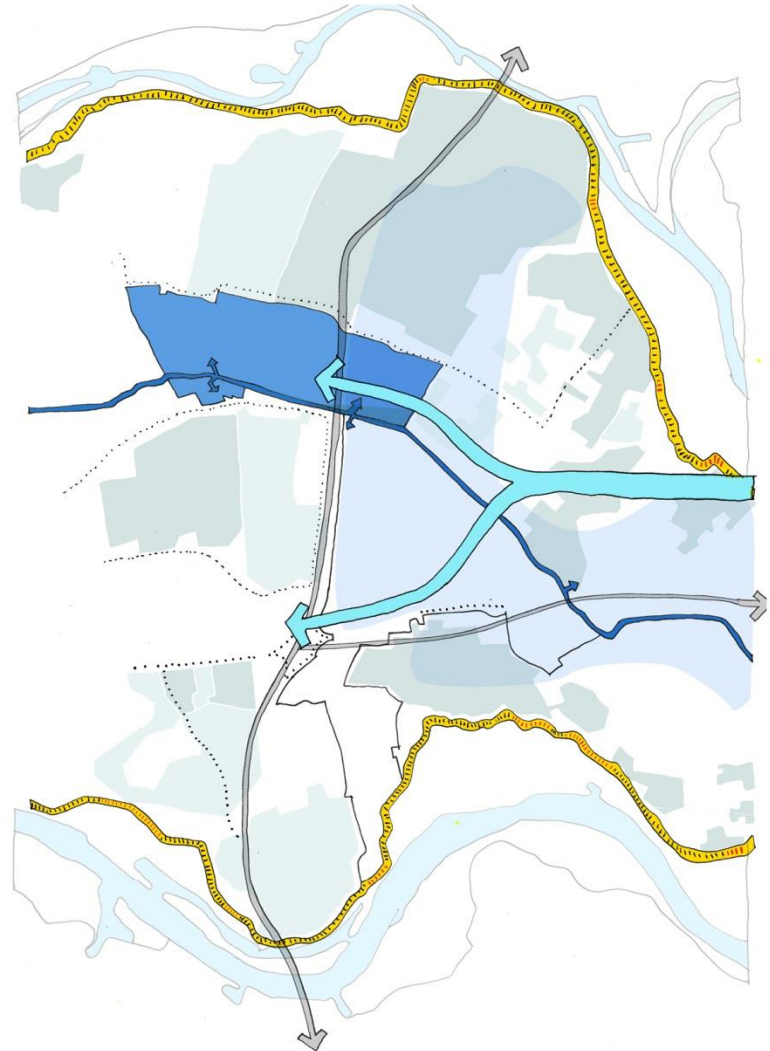


# Sustainable energy



Opportunities for sustainable energy

# Adaptive watermanagement



Adaptive water management

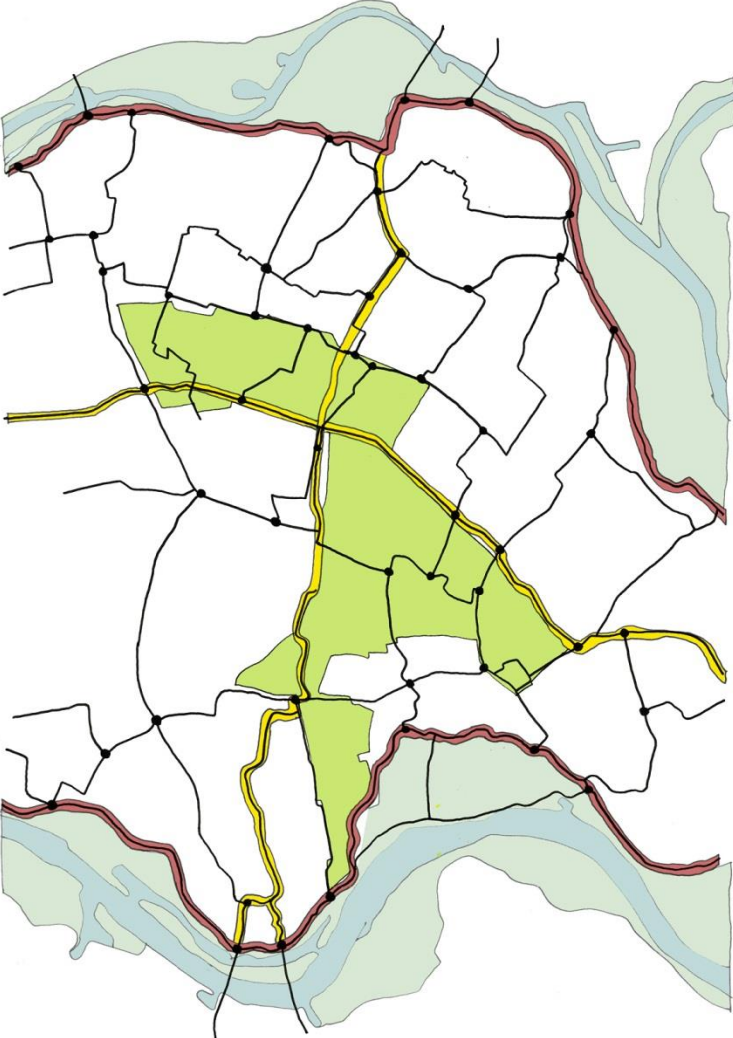


## AMBITION: SUSTAINABLE ENERGY



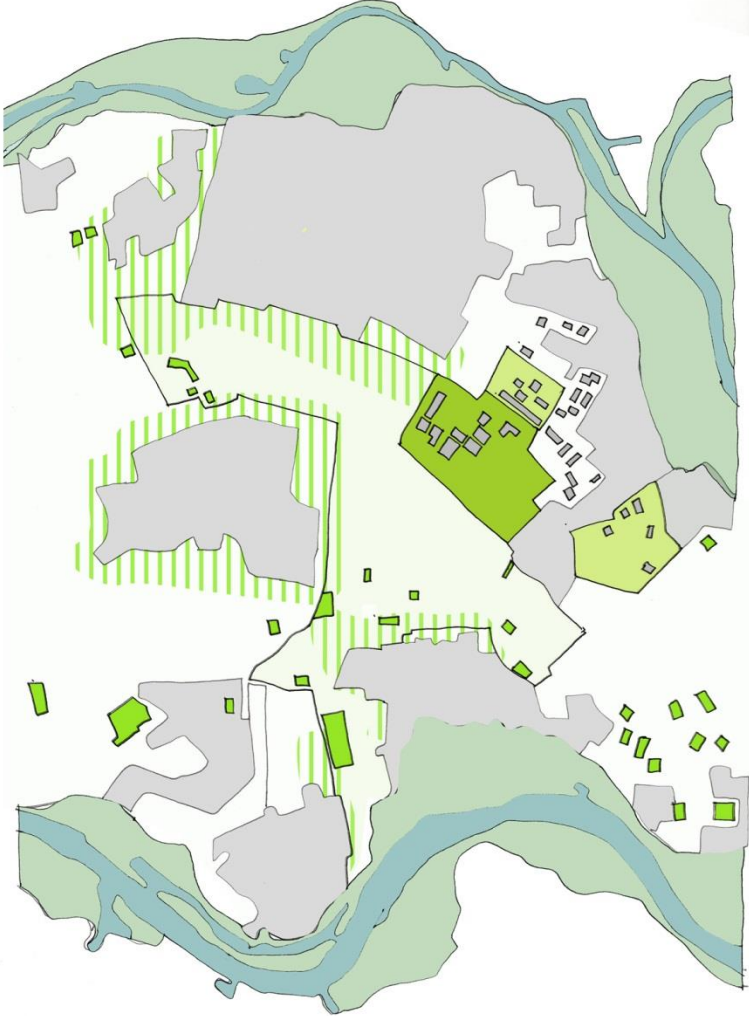
Smart polder: energie uit de polder

# Active recreation and health



Active recreation and health

# Urban agriculture



Opportunities for urban agriculture



# Active recreation and health





# AMBITION: URBAN AGRICULTURE





# FOOD FOREST



Voedselbos Ketelbroek

# Infrastructure – extension of the highway network







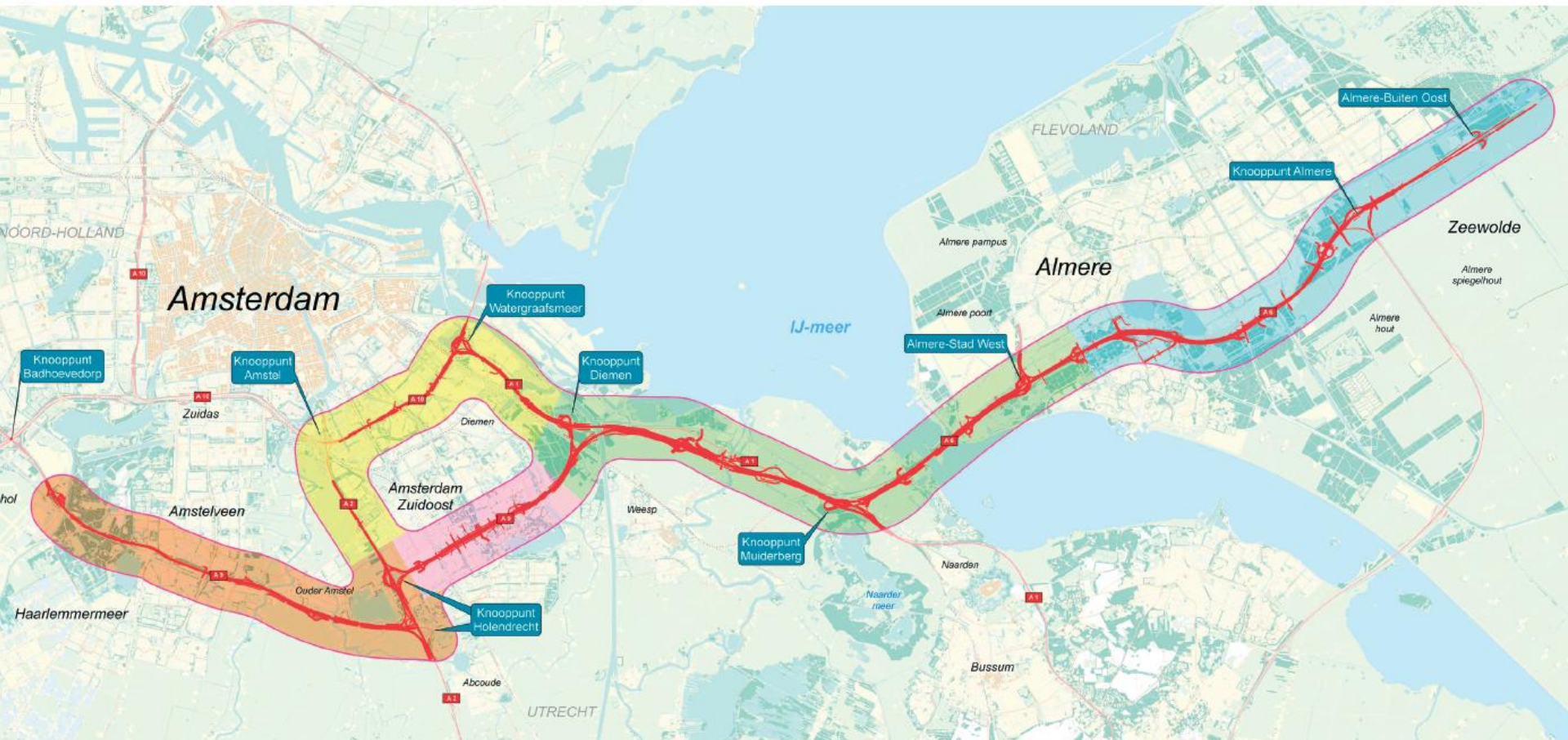




karres+brands

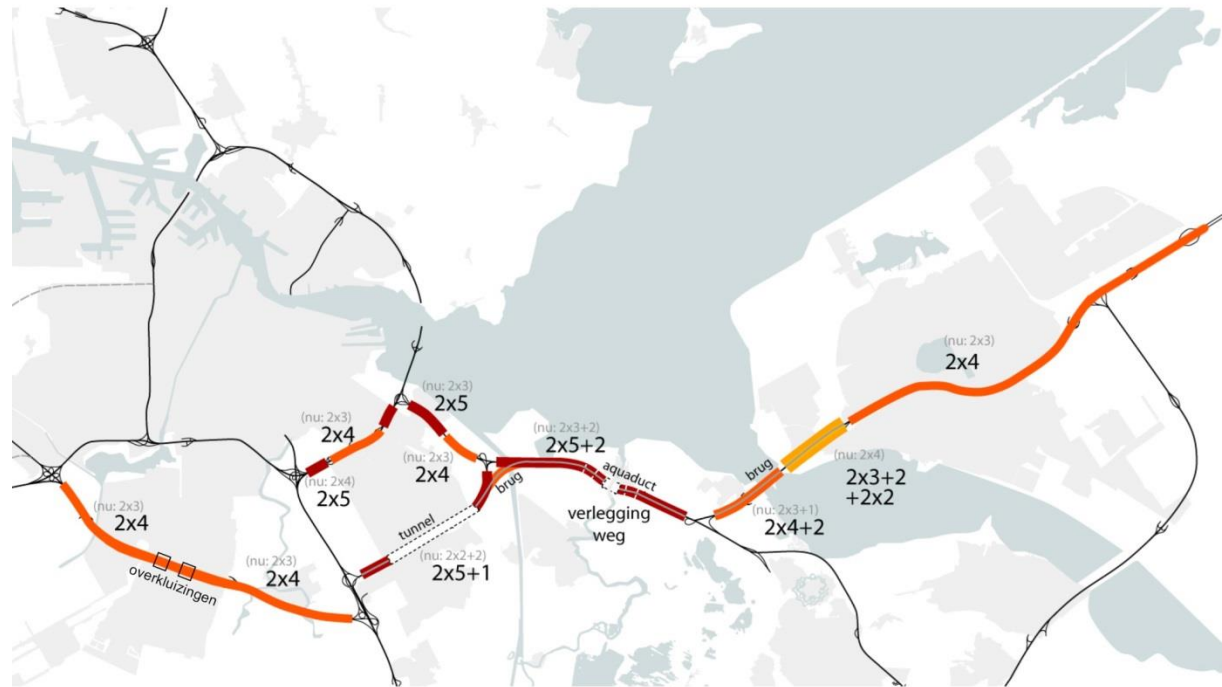


# Schiphol-Amsterdam-Almere SAA Supervisor since 2010



# Schiphol-Amsterdam-Almere SAA

- 63 km verbreding**
- 56 aan te passen kunstwerken**
- 47 nieuwe kunstwerken**
- 36 km geluidsschermen**
- 10 ecopassages**
- 4 verzorgingsplaatsen**
- 2 nieuwe bruggen**
- 1 nieuwe spoorbrug**
- 2 overkluizingen**
- 1 tunnel**
- 1 aquaduct**



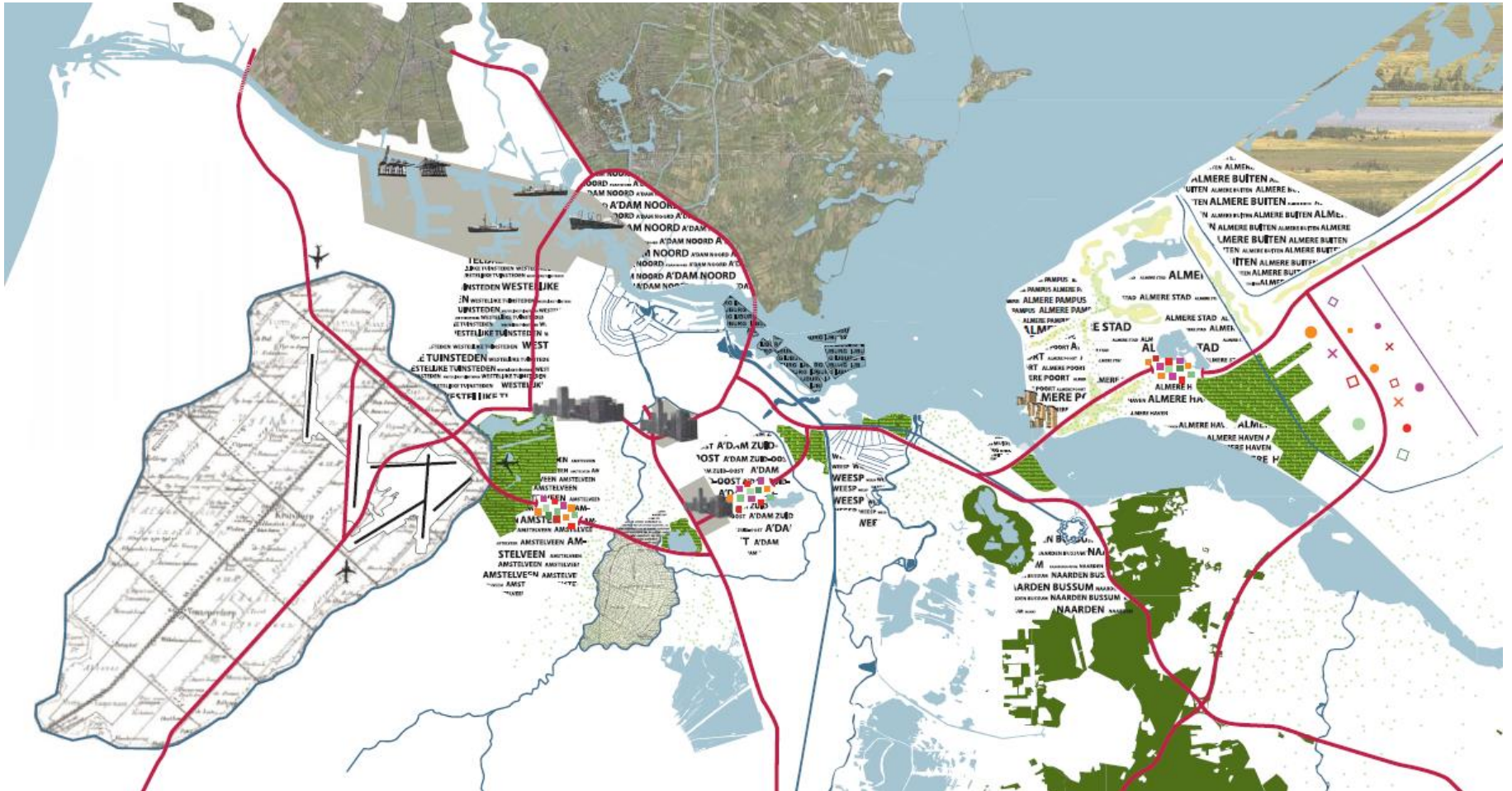


## SCHIPHOL - AMSTERDAM - ALMERE

masterplan

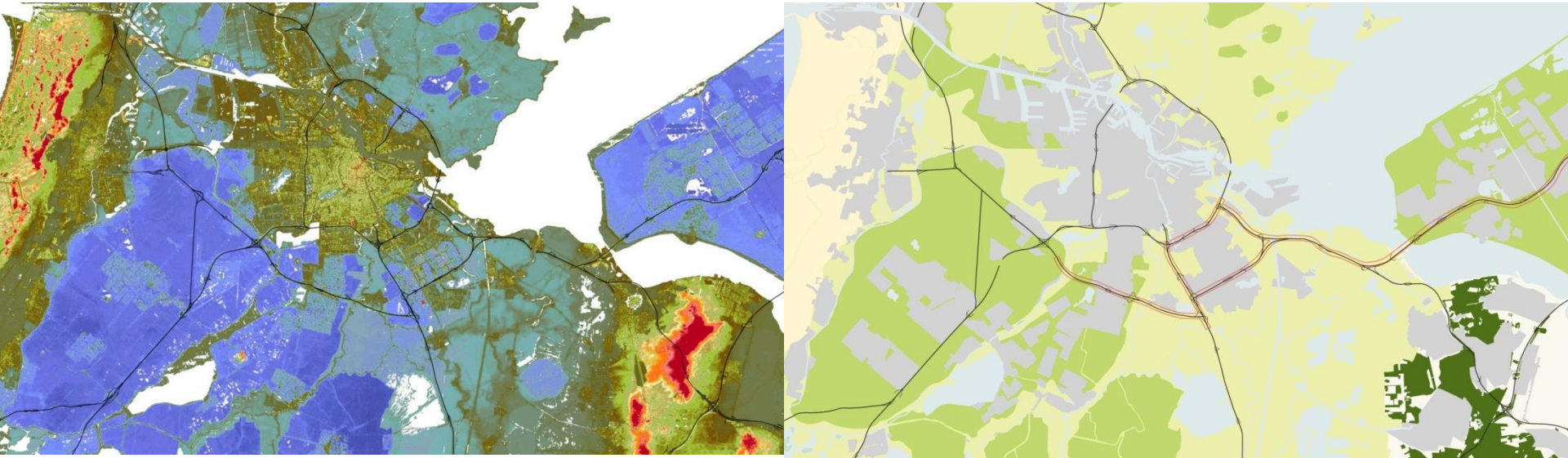


# Collage landscape

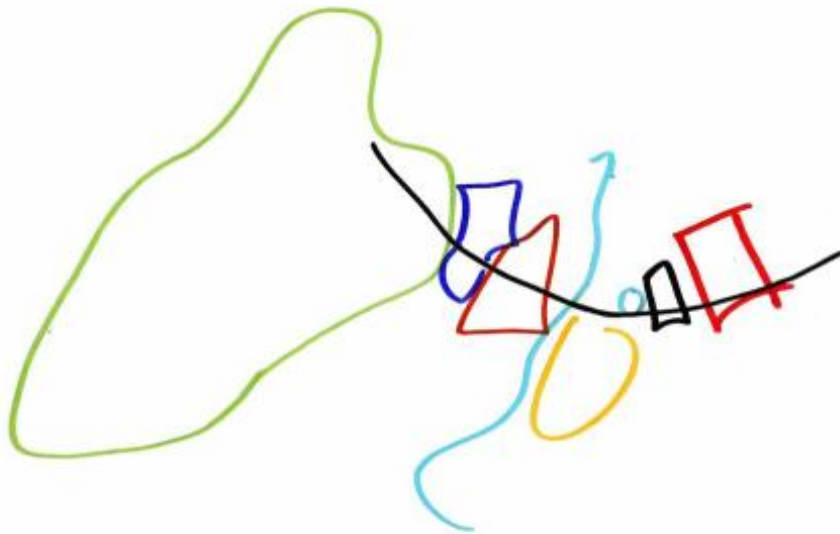




# Based on underlying geomorphology



## Maintaining identity distinct areas





# Dutch light vs. color use



# Guidelines

- 1** THE AREA DOMINATES, THE HIGHWAY FACILITATES
- 2** PRESERVE AND ENHANCE THE IDENTITIY AND RECOGNITION OF THE LANDSCAPE AND URBAN UNITS AND OPTIMIZE THE VISIBILITY OF DIVERSITY
- 3** CHOOSE PLANTING THAT ENHANCES THE IDENTITY OF THE AREA
- 4** ORDER, CONTINUITY AND RESTRAINT IN ALL DESIGN ELEMENTS OF THE HIGHWAY
- 5** ACCOMODATE THE NOISE BARRIERS ON BIG LANDSCAPE UNITS AND DON'T MAKE "BACK SIDES"
- 6** DESIGN OF THE INFRASTRUCTIONAL WORKS INCREASES RECOGNITION OF VARIOUS HIGHWAYS
- 7** INCREASE ORIENTATION AT NODES



# SAA has great spatial impact!





**But also provides new opportunities...**

Construction of Aquaduct and National Ecological Network connection

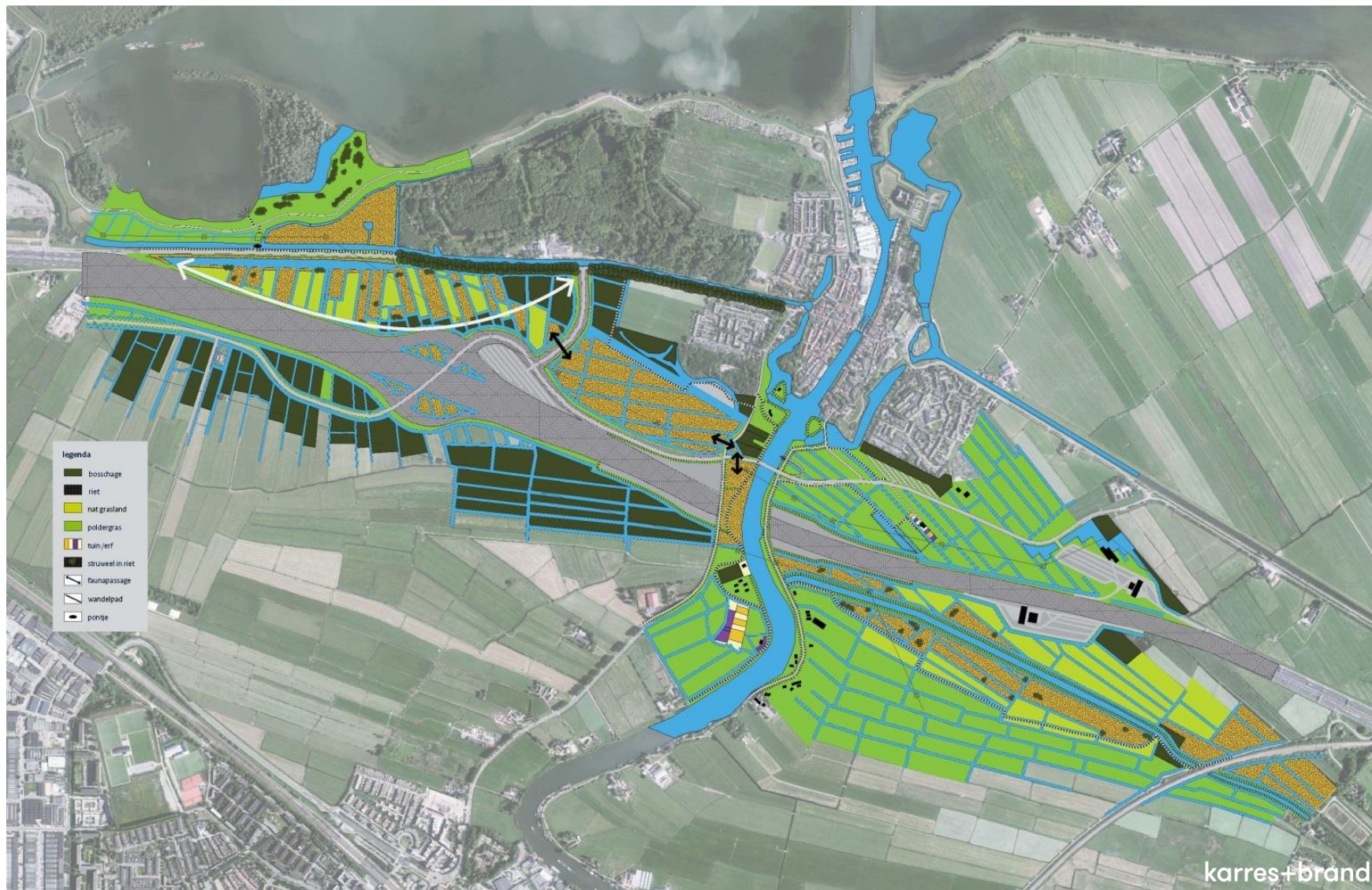








# Construction Waterlandtak – National Ecological Network





# Muiden Aquaduct





# Gaasperdammerweg Tunnel A9 Highway

Connecting two parts of the city and construction of a park



De huidige situatie



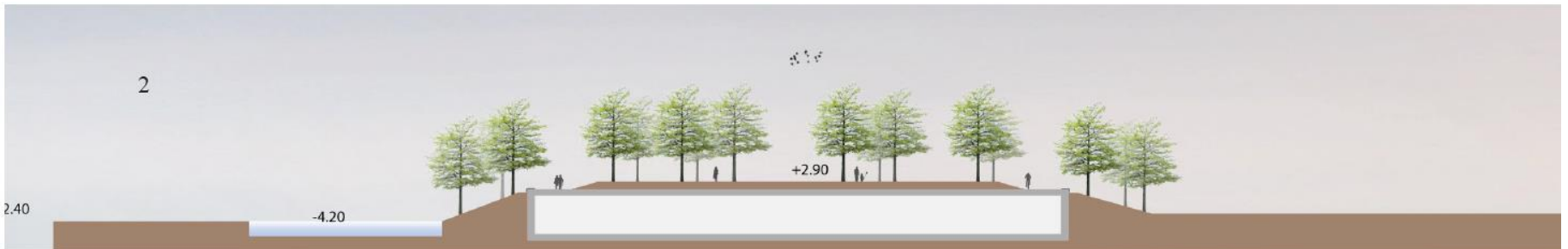
Tijdelijke situatie v.a. de zomer in 2016



De nieuwe situatie in 2020. De A9 loopt dan door een 3 kilometer lange tunnel



# Section Gaasperdammerweg Tunnel A9 Highway



# Study deepened position A9 Highway in Amstelveen



Impressie samenhang schermen met goene uitstraling



# Amazing complexity

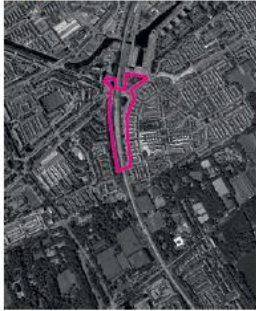




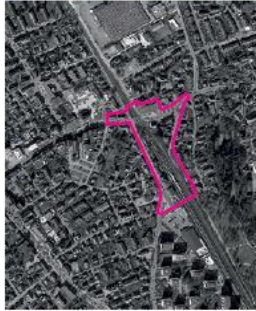
# Sharing knowledge!







**Prettig Wachten Moerwijk**  
The Hague, The Netherlands  
Size: 0.66 hectares



**Senden Station Area**  
Senden, Germany  
Size: 0.9 hectares



**Hengelo Station Square**  
Hengelo, The Netherlands  
Size: 1.35 hectares



**Prettig Wachten Den Helder**  
Den Helder, The Netherlands  
Size: 1.5 hectares



**Hoekenrode Square**  
Amsterdam, The Netherlands  
Size: 1.7 hectares



**Amersfoort Station Area**  
Amersfoort, The Netherlands  
Size: 1.95 hectares



**Prettig Wachten Wolvega**  
Wolvega, The Netherlands  
Size: 2.15 hectares



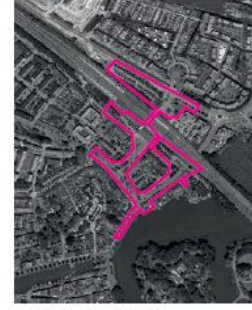
**Nørreport Station**  
Copenhagen, Denmark  
Size: 2.5 hectares



**Bahnhof Ostkreuz**  
Berlin, Germany  
Size: 2.6 hectares



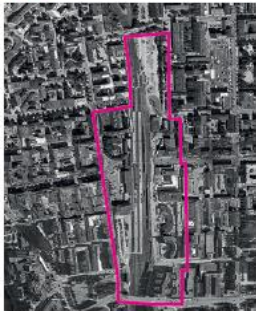
**Ny Østergade**  
Roskilde, Denmark  
Size: 3 hectares



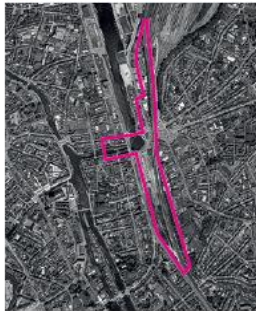
**Station Area Weesp**  
Weesp, The Netherlands  
Size: 3 hectares



**Federation Square**  
Melbourne, Australia  
Size: 4.5 hectares



**Tampere Station Area**  
Tampere, Finland  
Size: 20 hectares



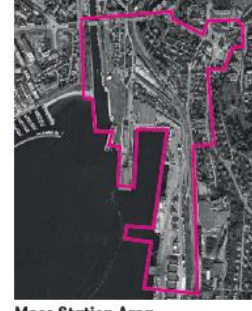
**Station Area Gent-Dampoort**  
Gent, Belgium  
Size: 22 hectares



**Groningen Station Area**  
Groningen, The Netherlands  
Size: 25 hectares



**Zwolle Station Area**  
Zwolle, The Netherlands  
Size: 28 hectares



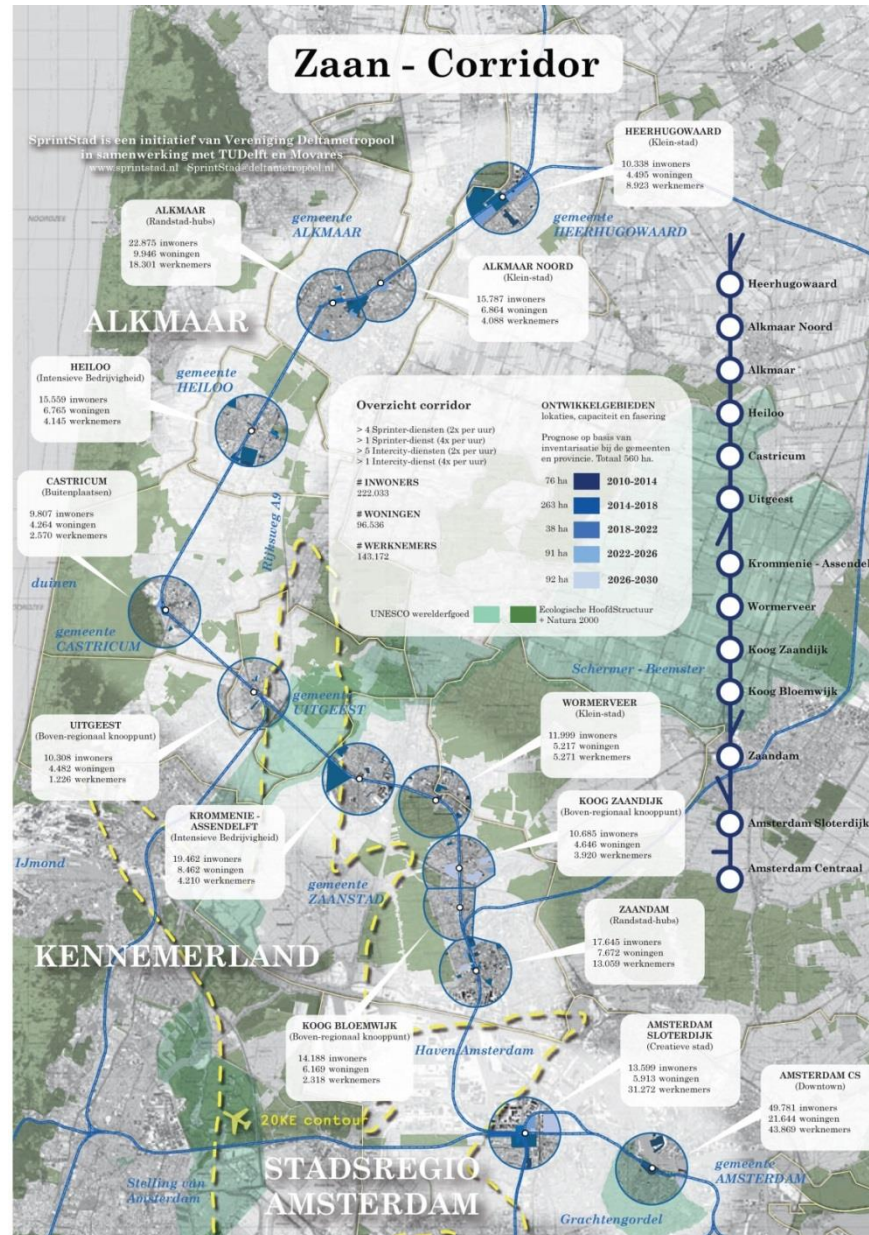
**Moss Station Area**  
Moss, Norway  
Size: 32 hectares



**Hart van Zuid**  
Rotterdam, The Netherlands  
Size: 56 hectares

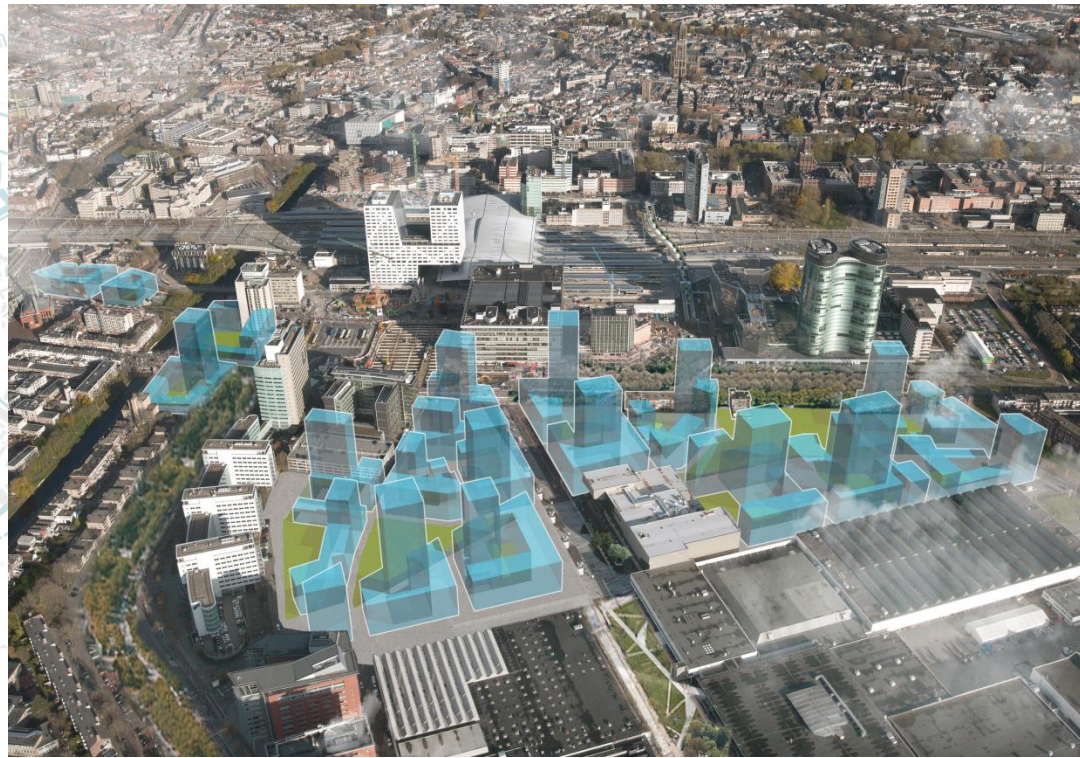
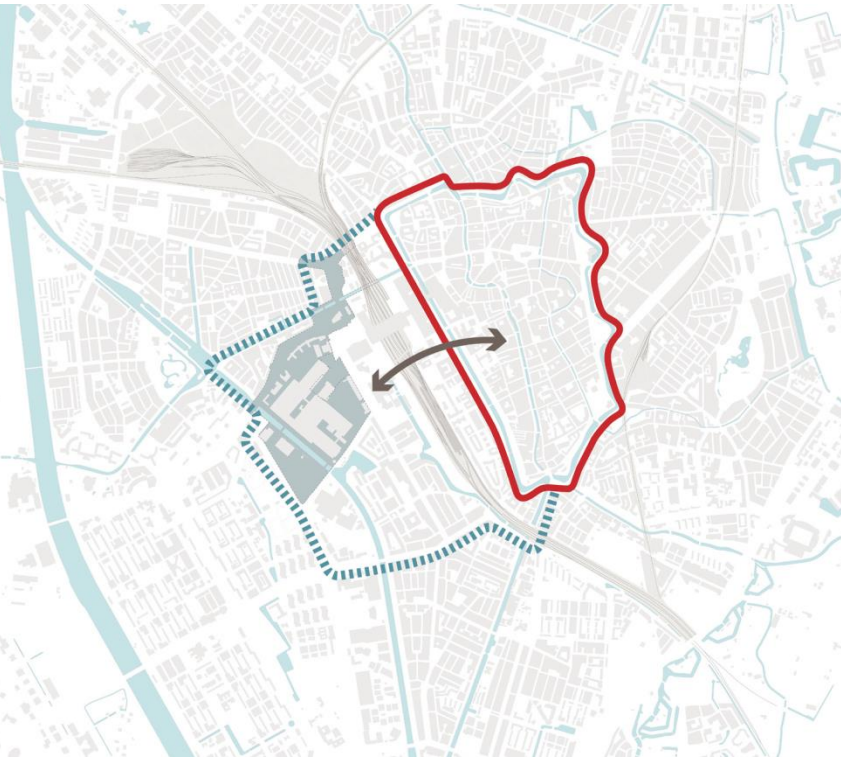


# Development of new city centers and of portals to the landscape

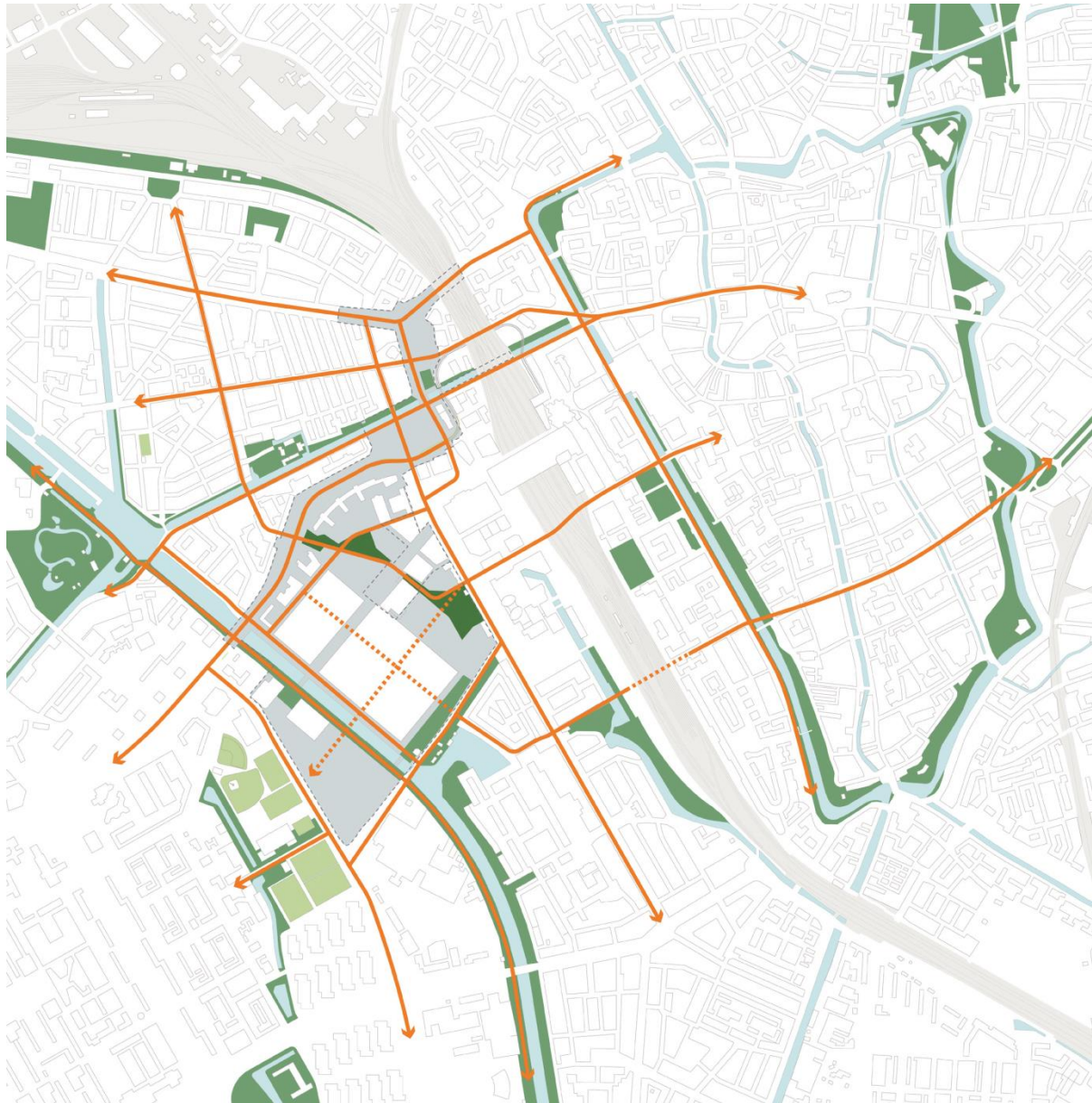




# Utrecht Station Area

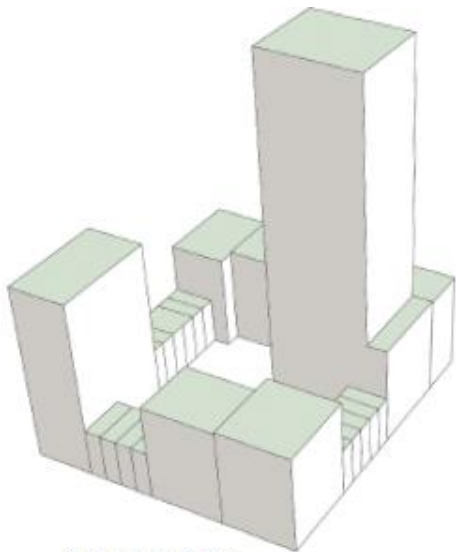


# Reconnecting the city

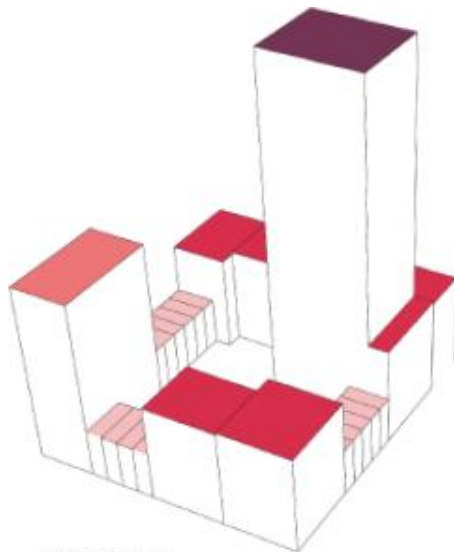




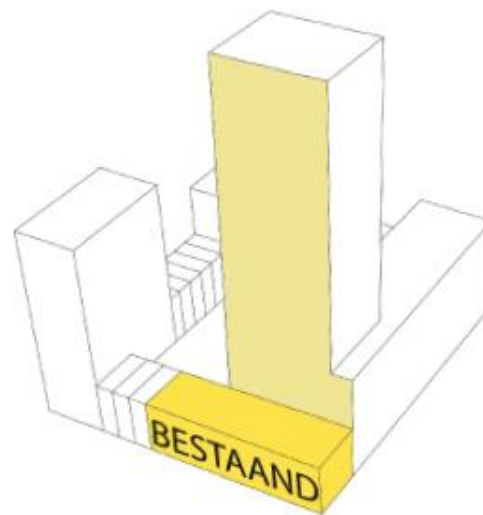
# Mixed blocks



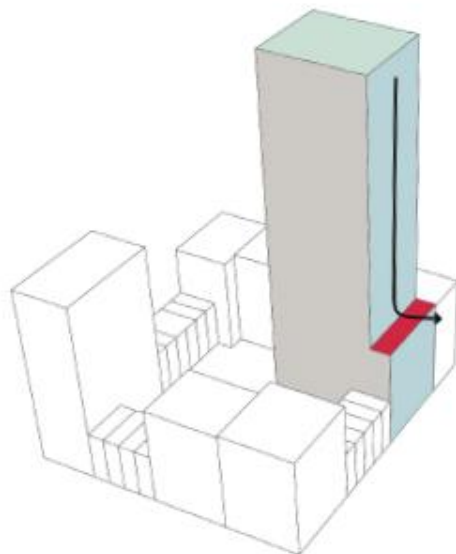
**GESLOTEN BOUWBLOK**



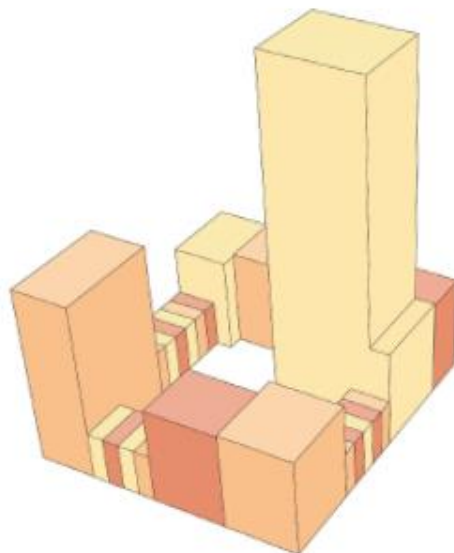
**12-25-45-90M**



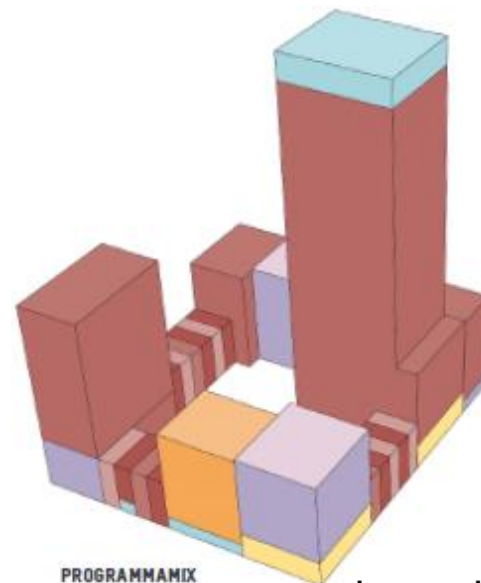
**INPASSING BESTAANDE WONINGEN**



**TERUGLIGGENDE HOOGBOUW**

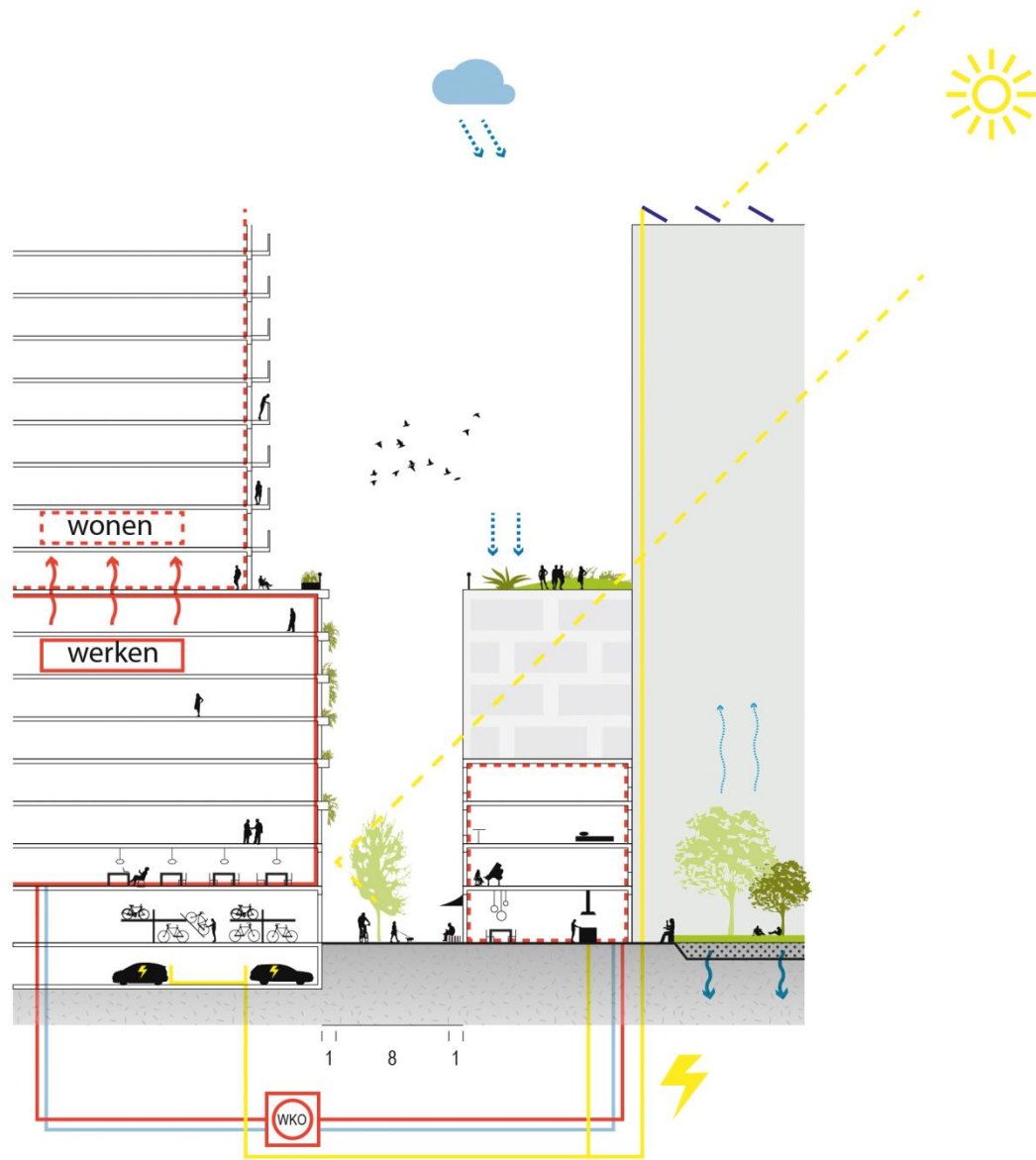


**EIGENAARSCHAP**



**PROGRAMMAMIX**

**karres+brands**

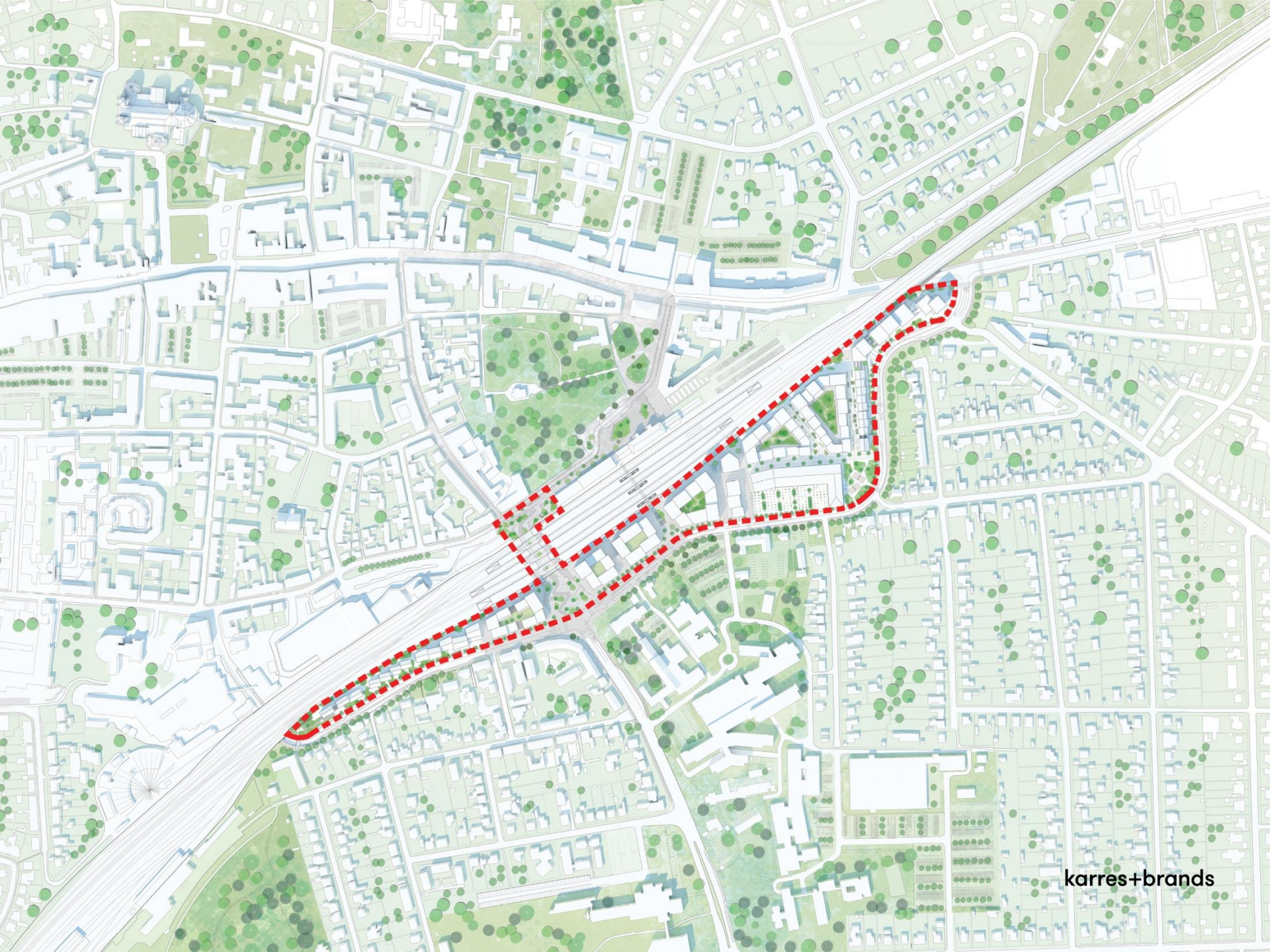




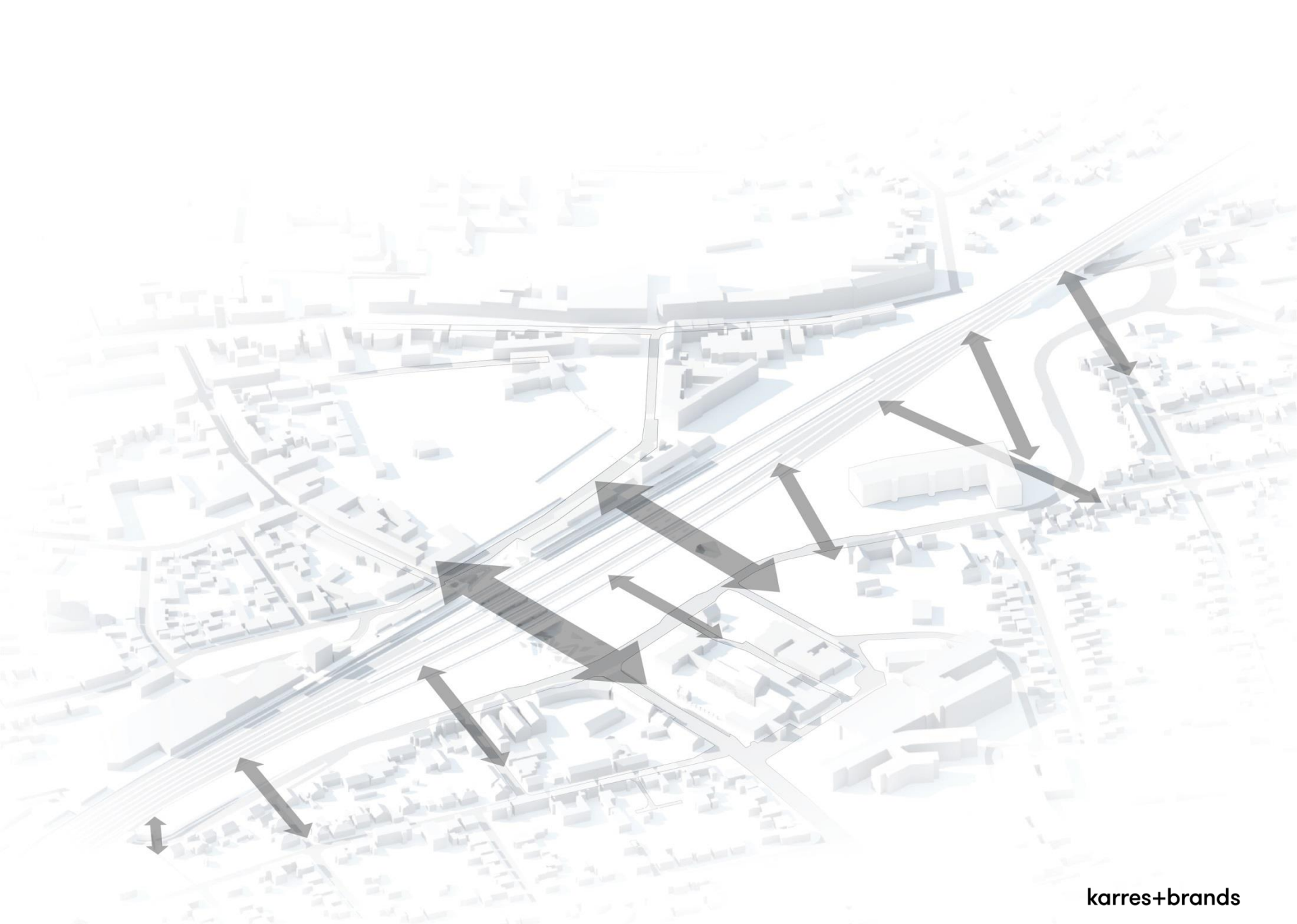
# Ny Østergade, Station Area Roskilde (DK)





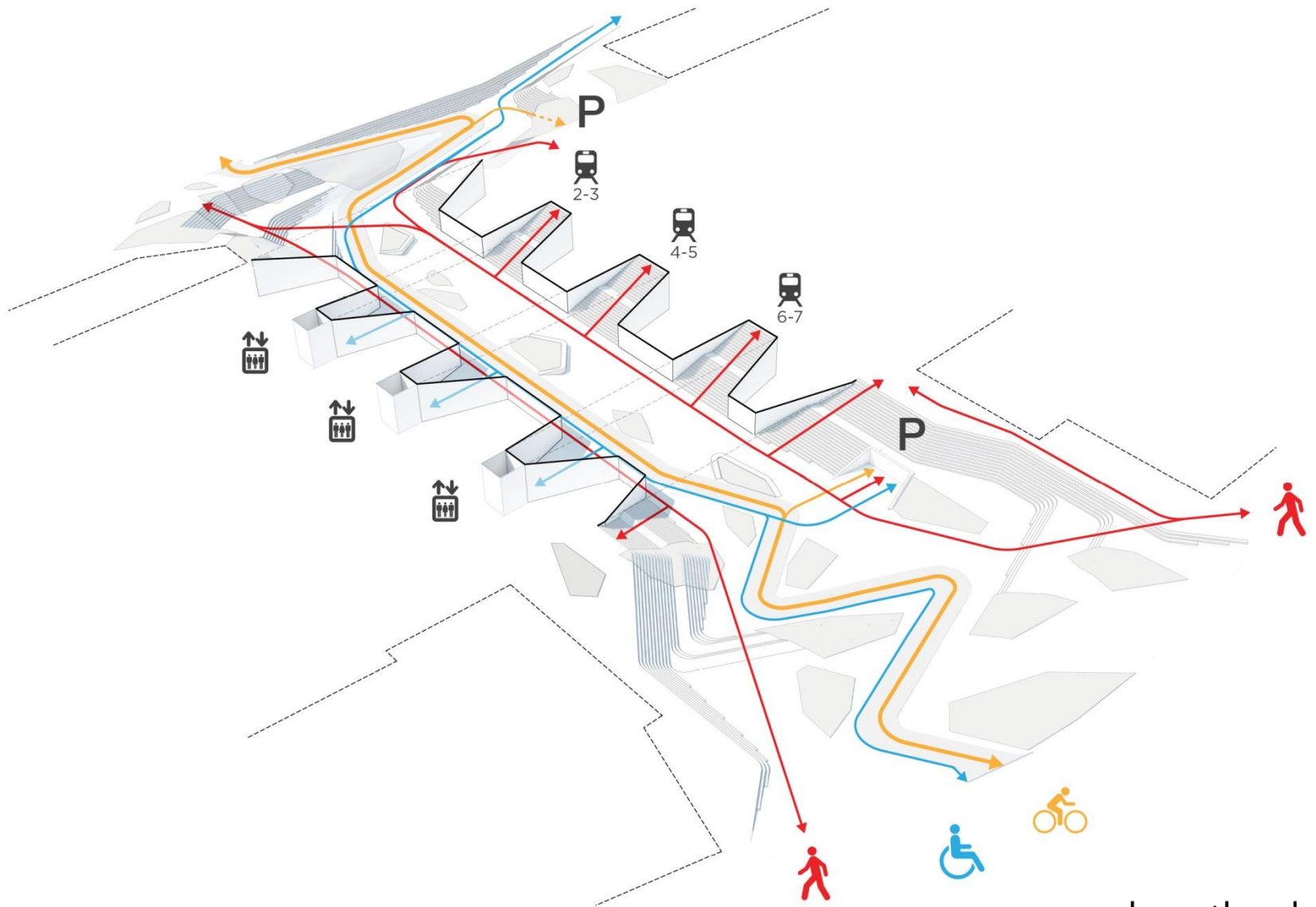


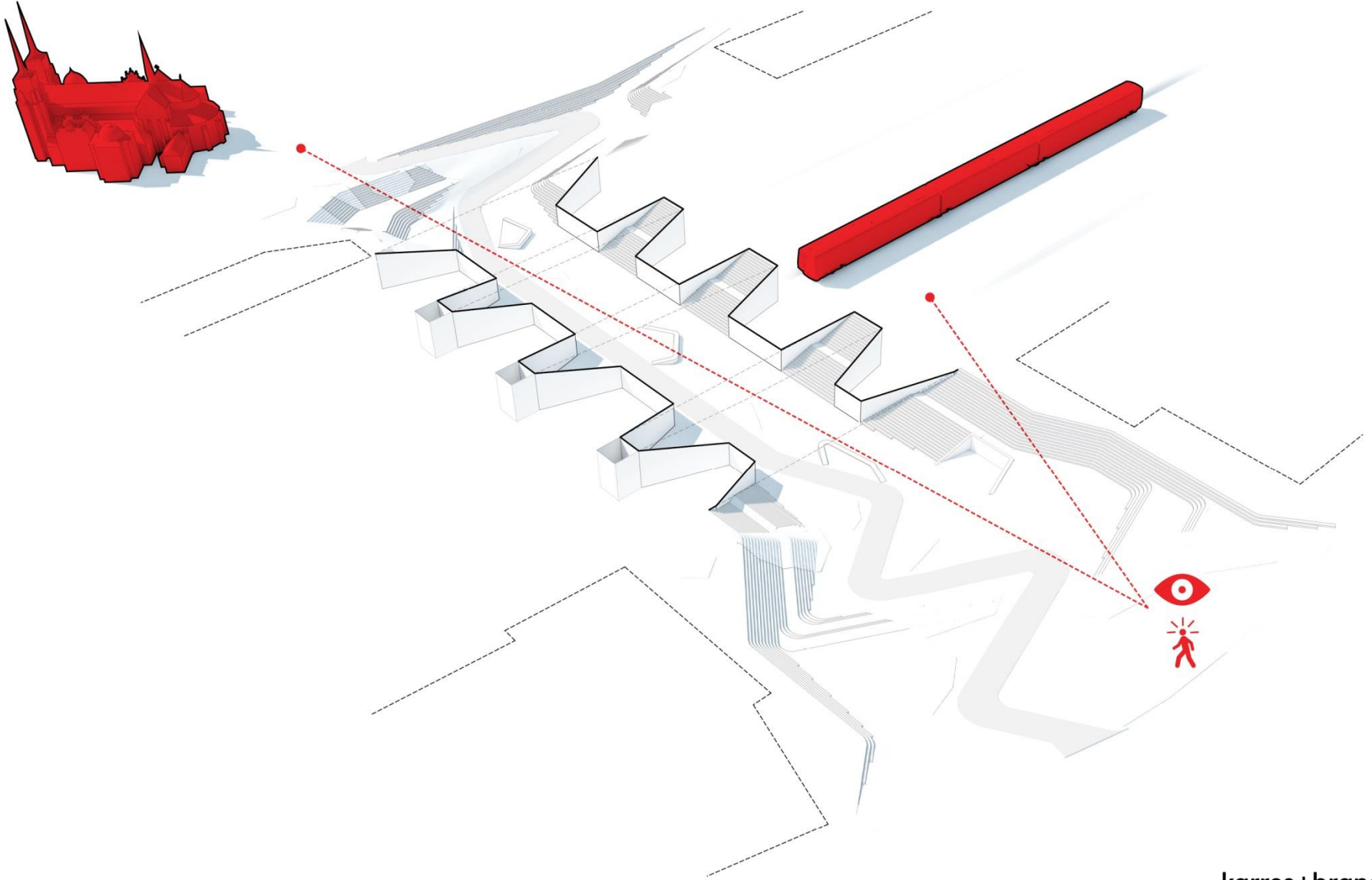




















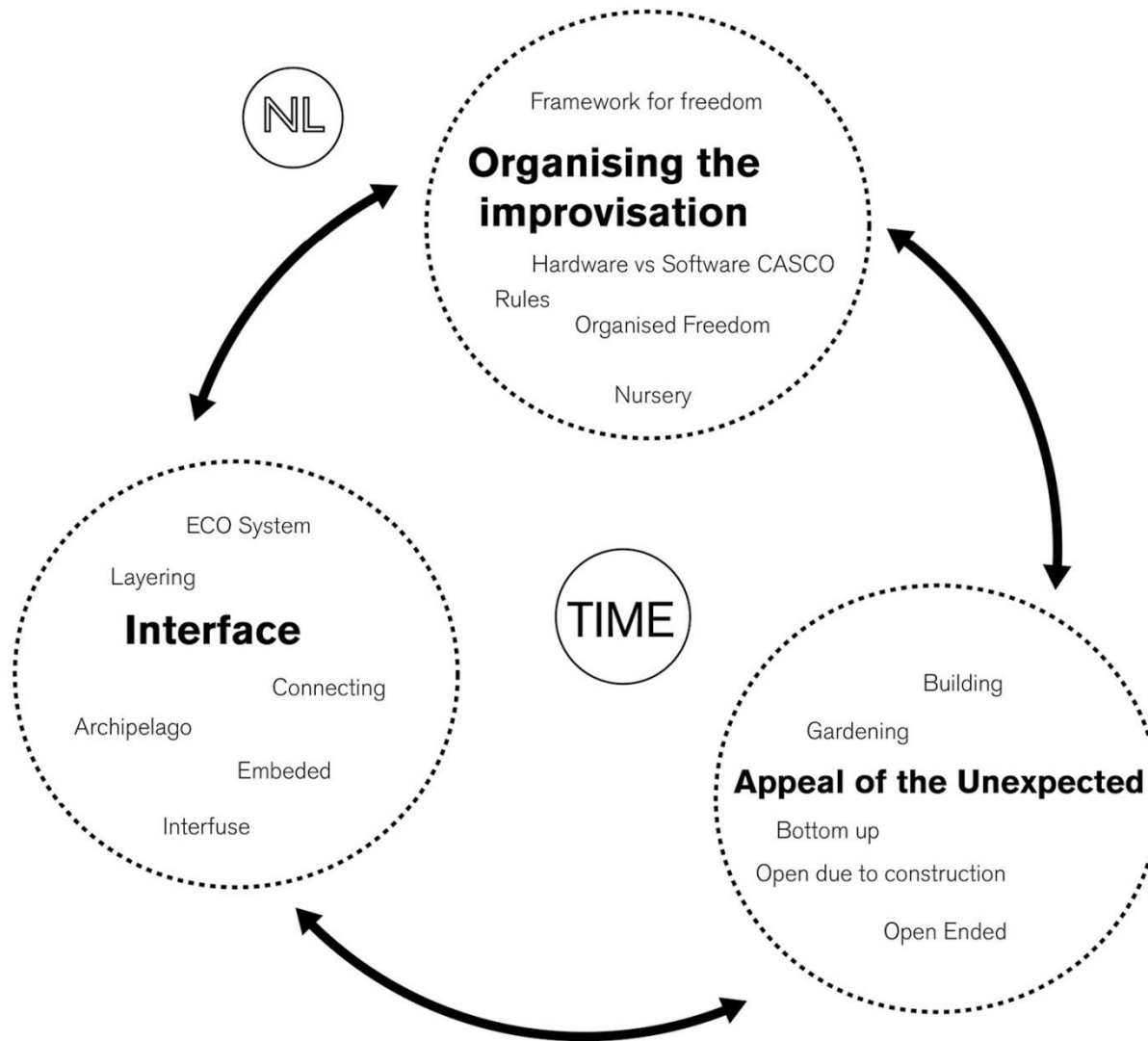




# Approach



# Cornerstones



Framework for freedom

# Organising the improvisation

Hardware vs Software CASCO

Rules

Organised Freedom

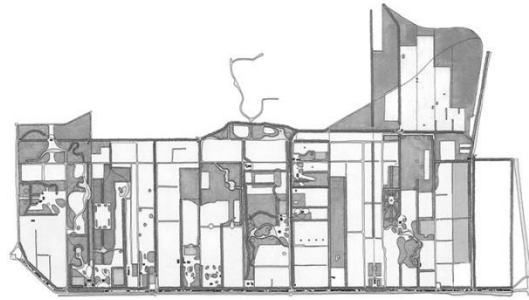
Nursery

PROVINCIE NOORD-HOLLAND.

GEMEENTE BEEMSTER.







's Graveland



DNO



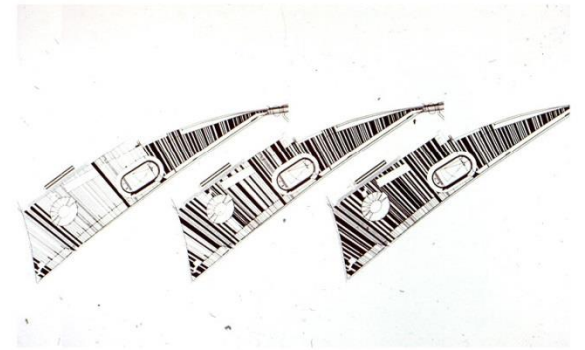
Bijlmerpark



Science Park

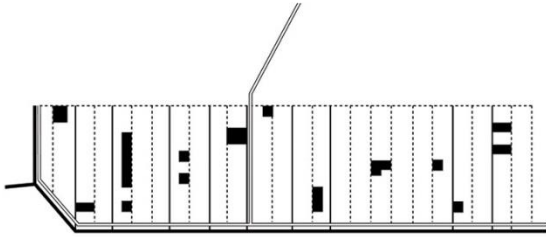


Brabander

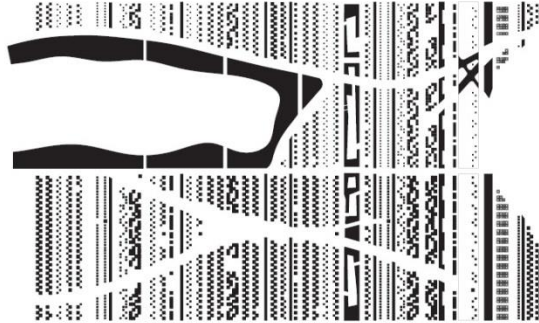


Hauptbahnhof

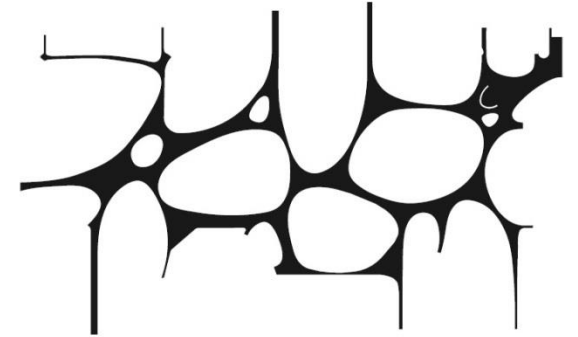
karres+brands



's Graveland



DNO



Bijlmerpark





Building

Gardening

**Appeal of the Unexpected**

Bottom up

Open due to construction

Open Ended

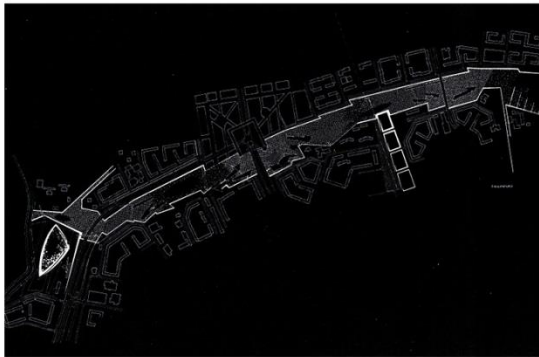




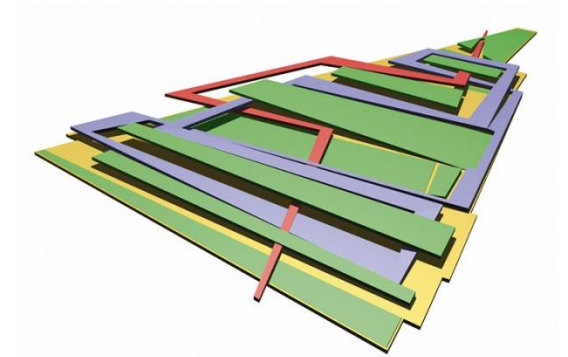
De Triangel Waddinxveen



Cross River Park



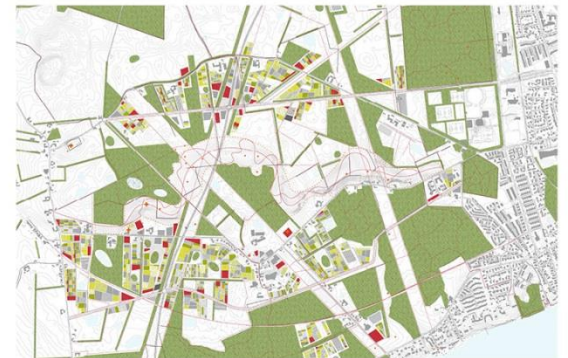
Hellersdorf



Hoge Weide

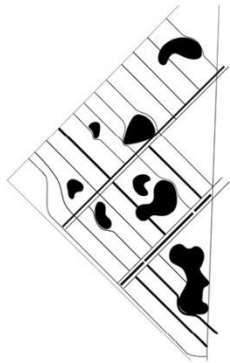


Netwerkstad



Tankefuld Svendborg

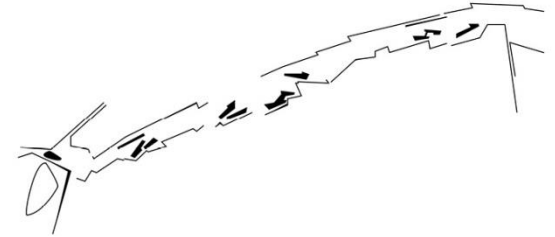




De Triangel Waddinxveen

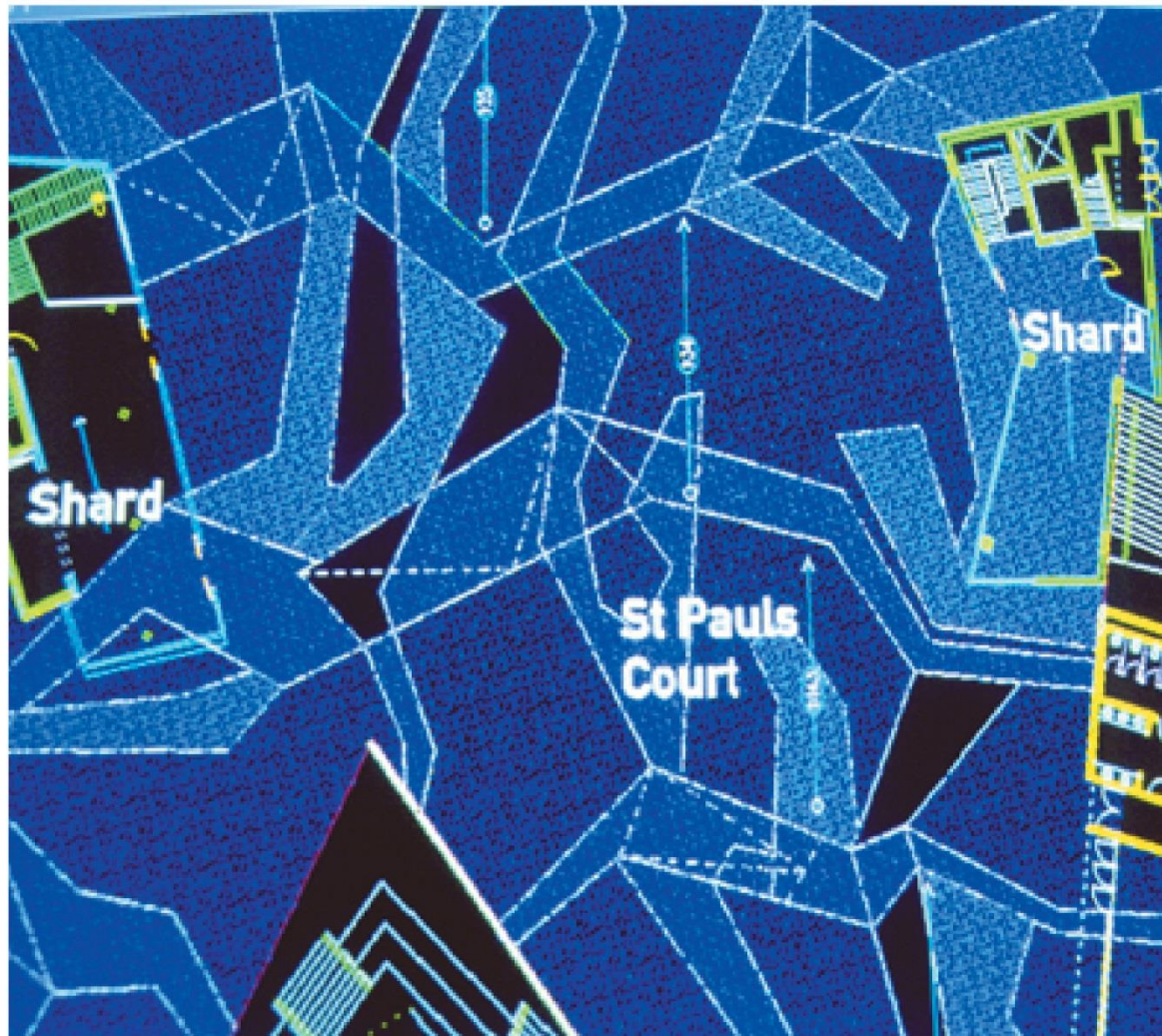
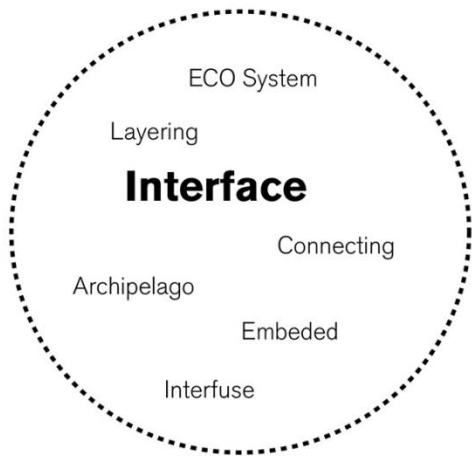


Cross River Park

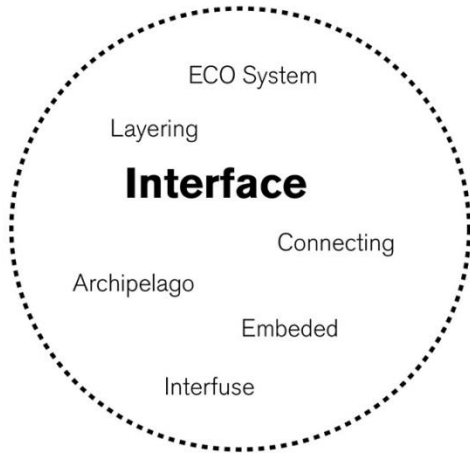


Hellersdorf

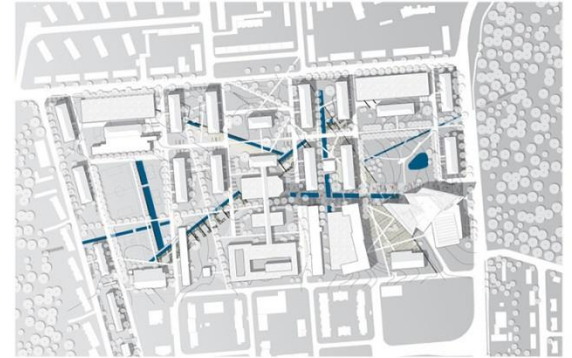








Federation Square



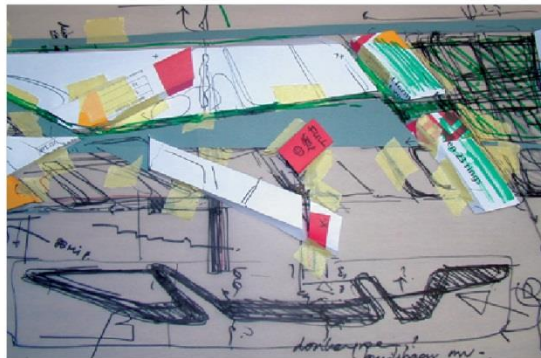
Leuphana



Hoge Biezenpark



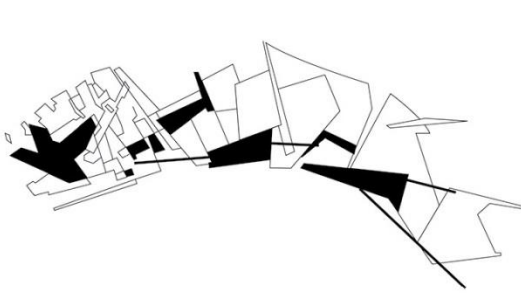
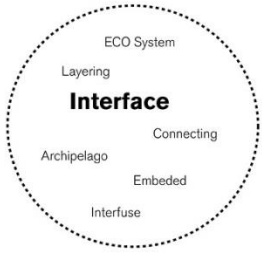
Goevernementsplein



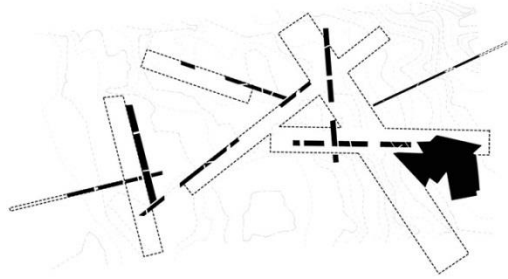
Boseilanden



Hauser Plads



Federation square



Leuphana



Hoge Biezenpark





# **Transformation and Identity**

**How to cherish existing values while developing new identities?**











Always teamwork!

