

Bk7210 Urban analysis & design

Minor: Green Blue City 2013

Lecture 3
**Urbanism
Rotterdam
and the Delta**

Han Meyer

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2. **The Dutch delta** *slide 7-59*
3. **New plans - proposals, graduation projects and competitions** *slide 60-83*
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1. New Orleans - city *in* the Delta



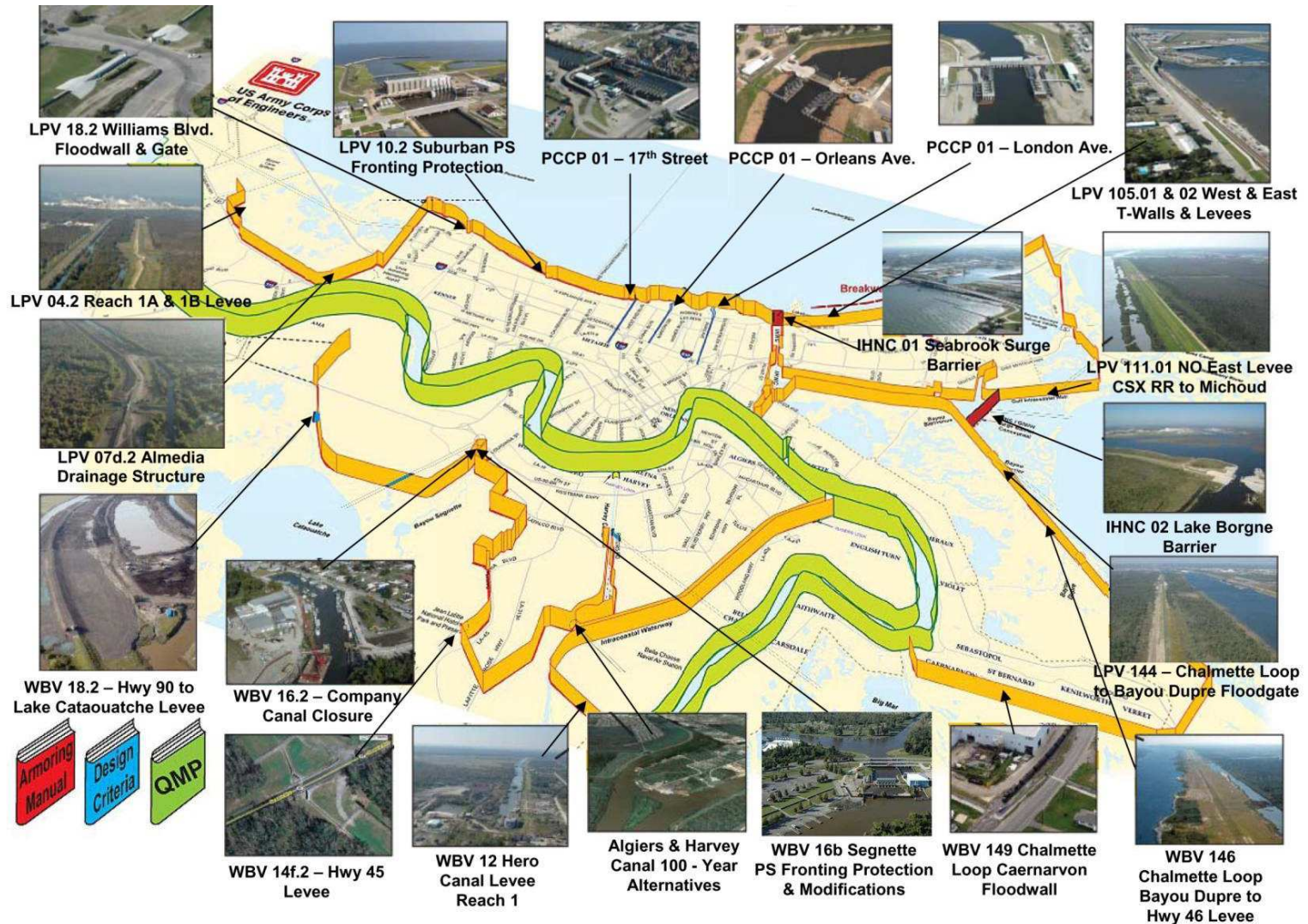
New Orleans - city *in* the Delta



New Orleans - city *in* the Delta



Fortress New Orleans



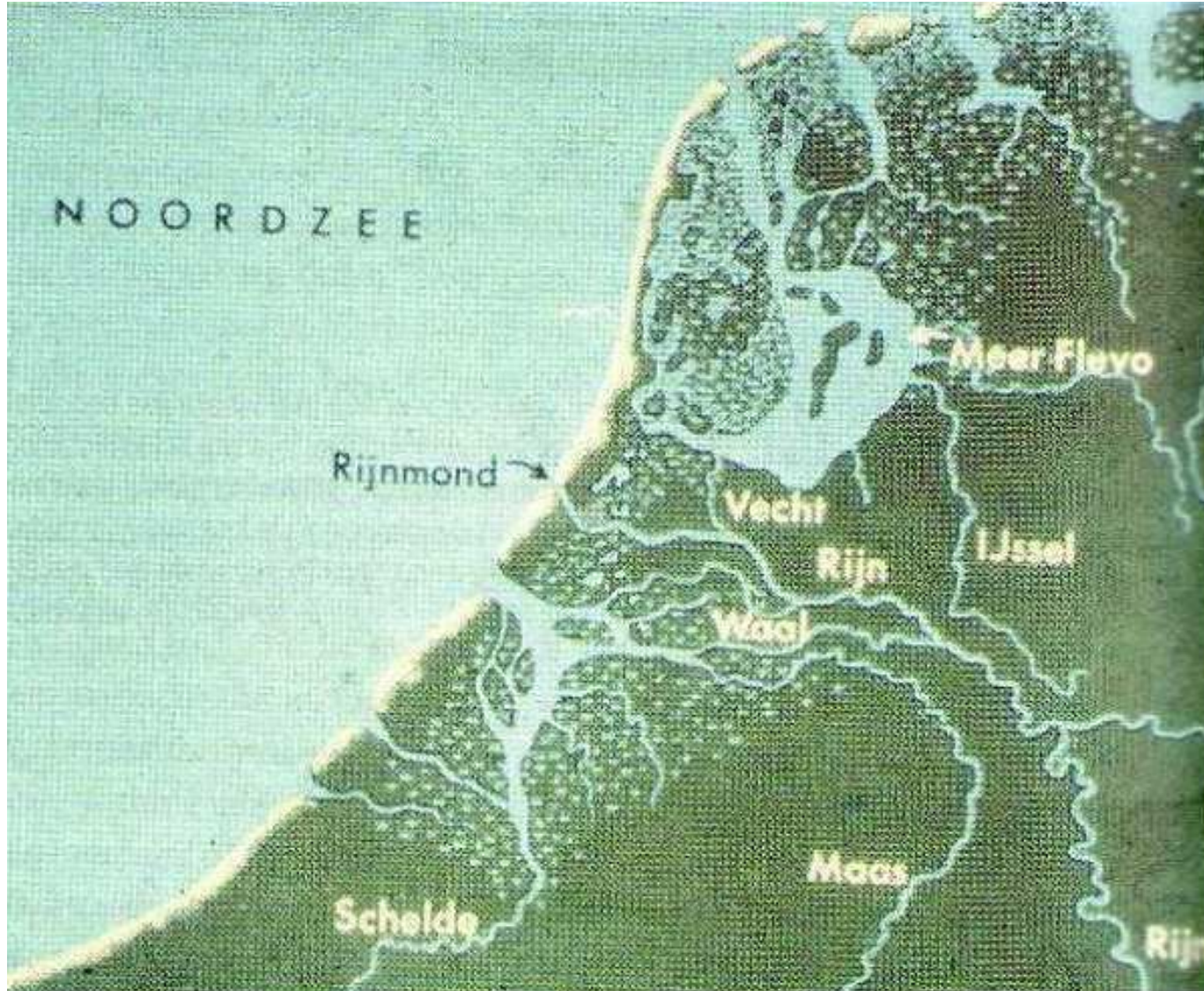
2. The Dutch delta

- 1. Historical development of the delta**
- 2. Dike rings**
- 3. Development of port city Rotterdam**
- 4. Land reclamation and the Colijnsplaat**
- 5. Goeree-Overflakke 1200-1800**
- 6. 1st intervention 1860-1880**
- 7. 2nd intervention 1960-1980**

The city *in* and *on* the Delta



The Dutch delta - 2000 years ago



The Dutch delta

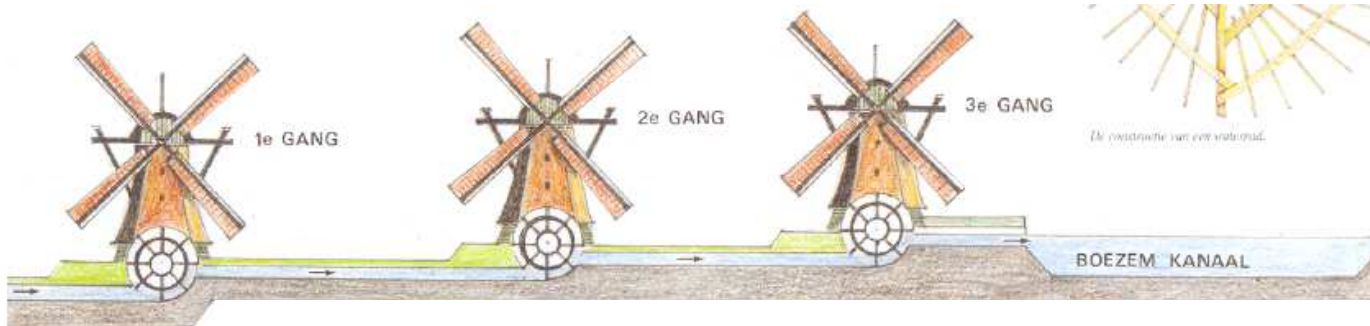


Geography of The Netherlands, ca. 1000



Old settlements, ca. 1350

Drainage systems



Dike rings

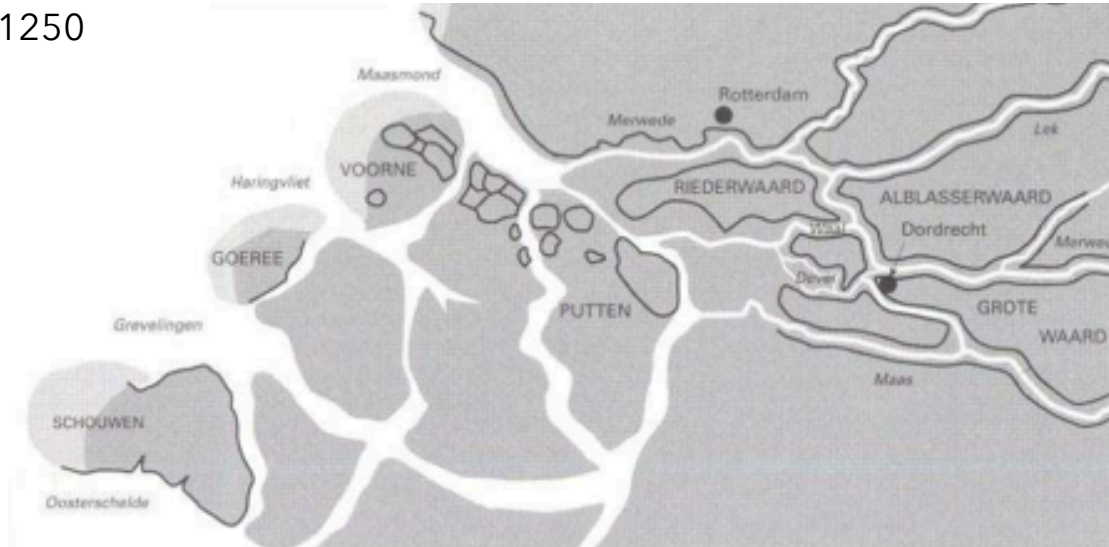


Dike rings safety norms



Dike rings

1250



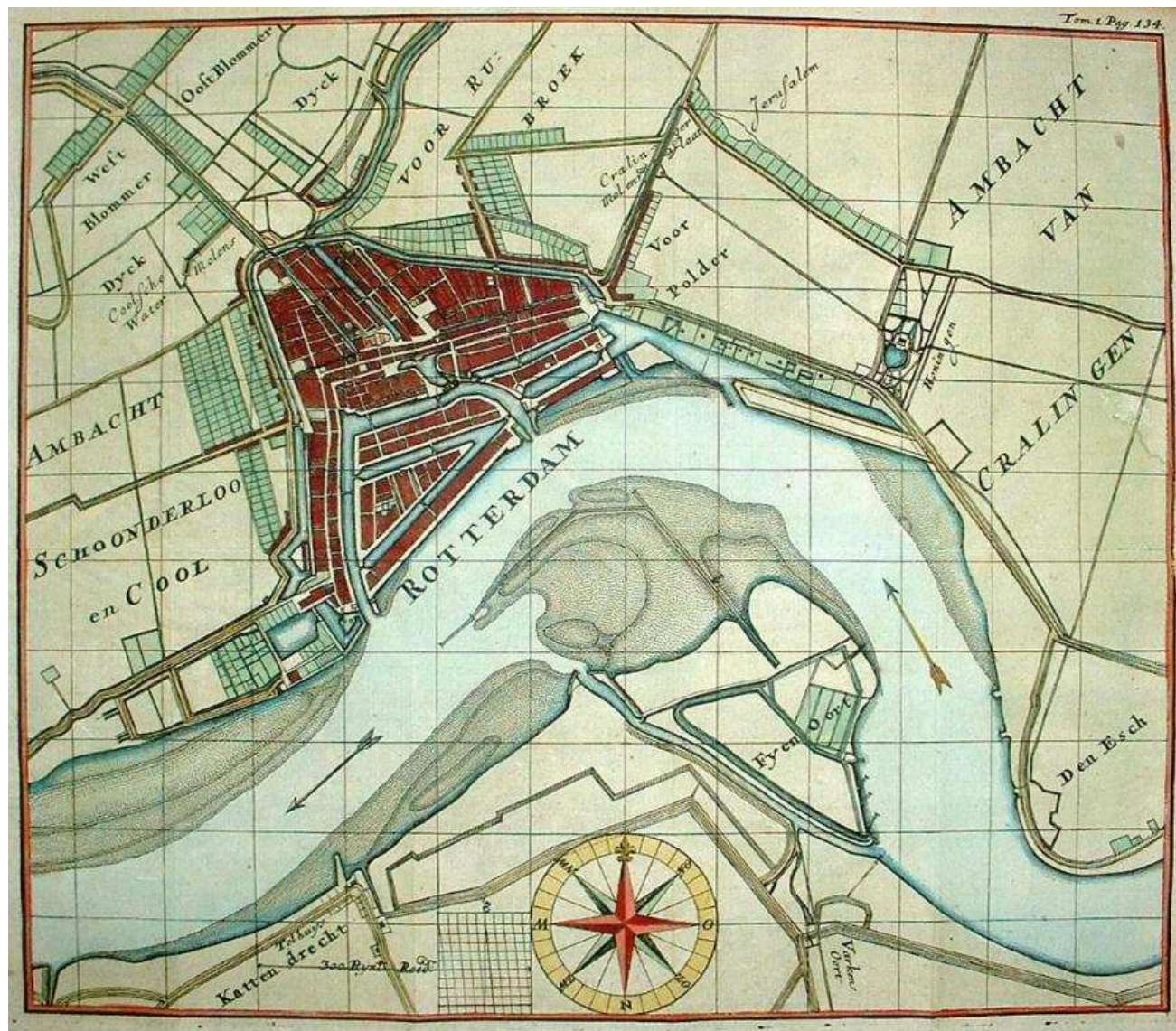
1600



Silting up of the river mouths



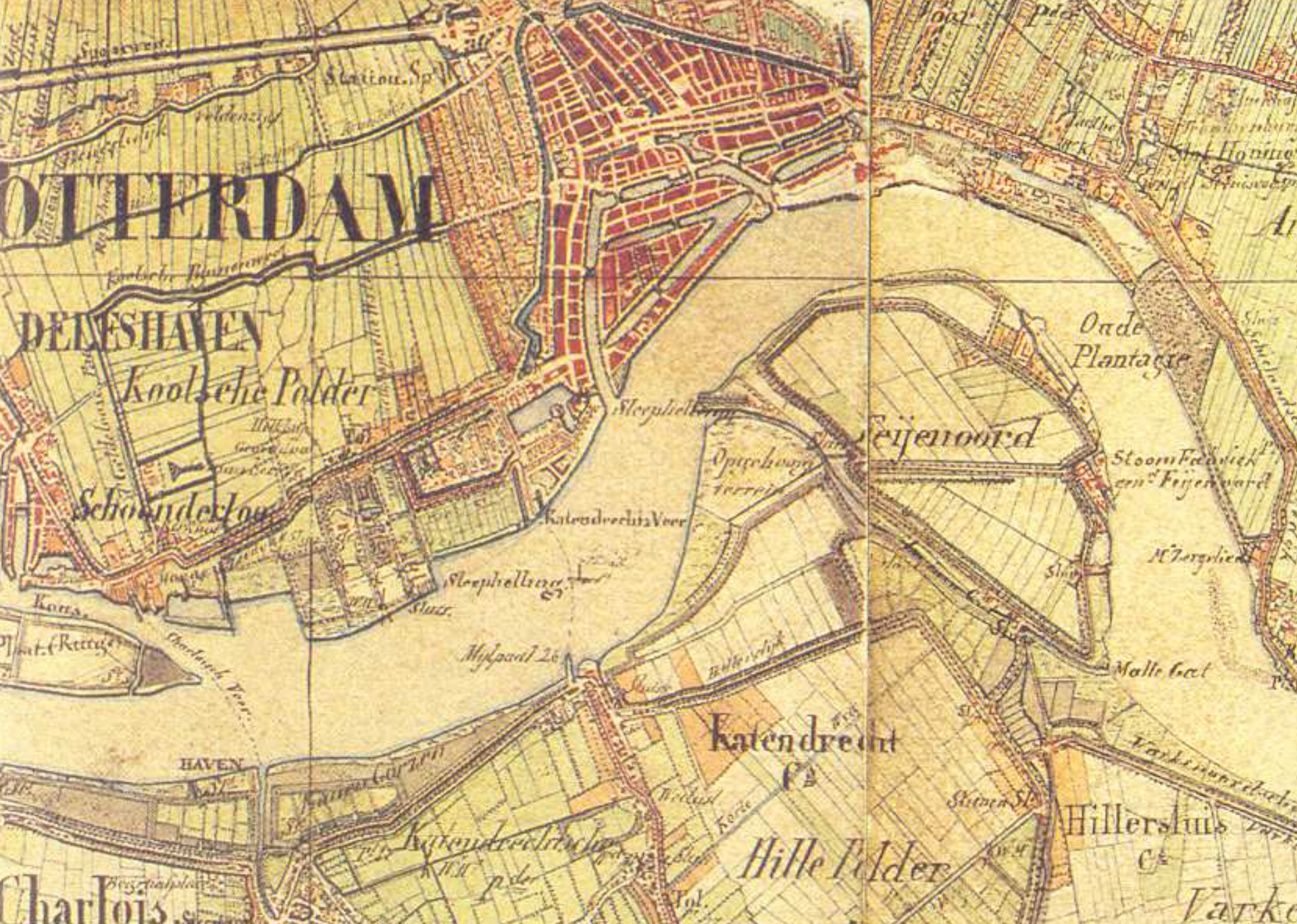






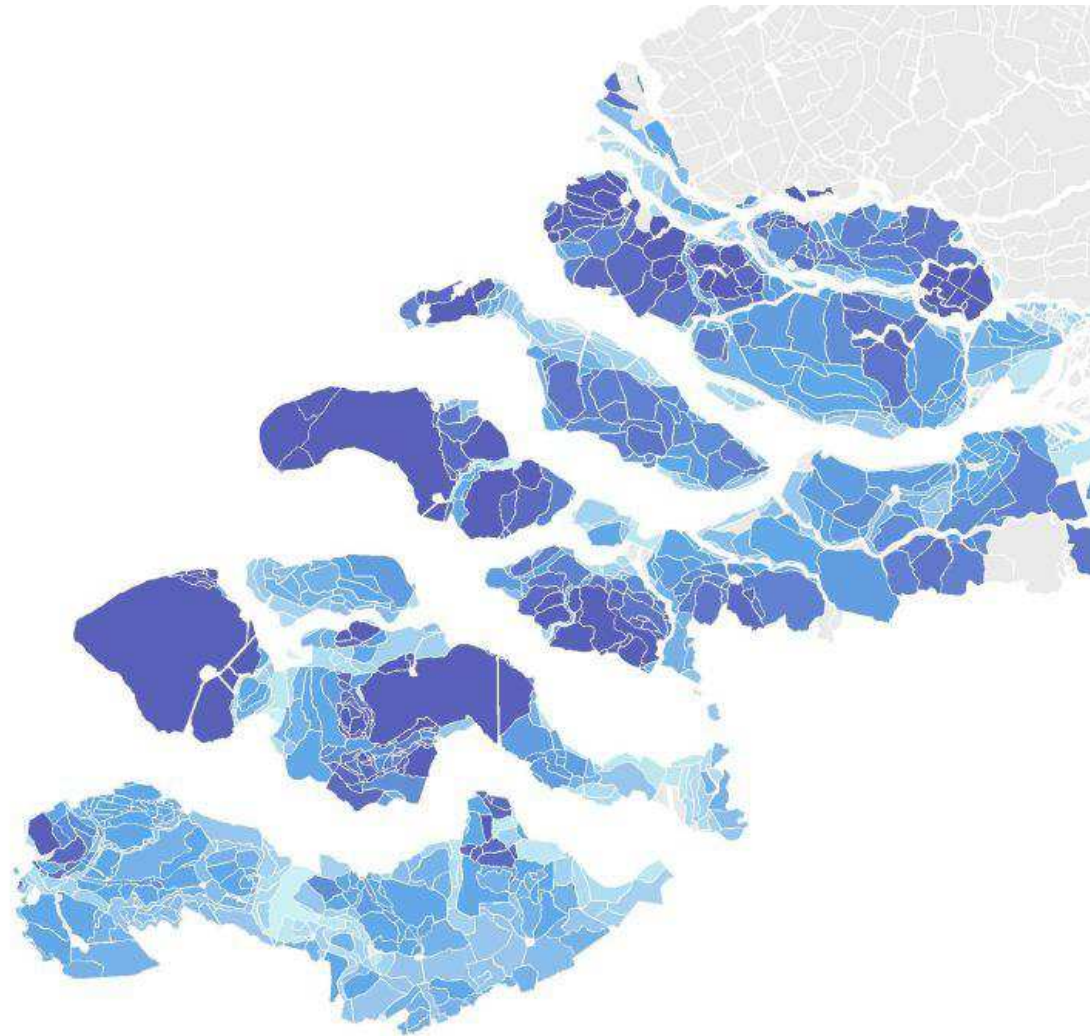
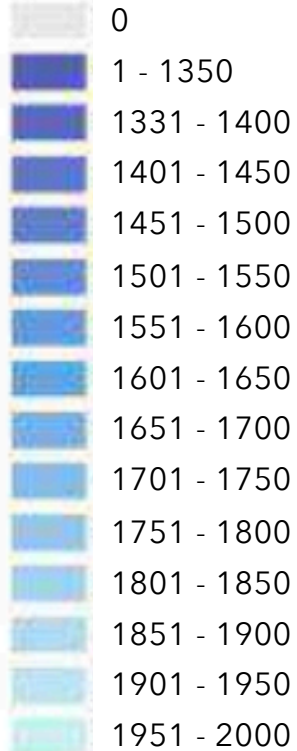




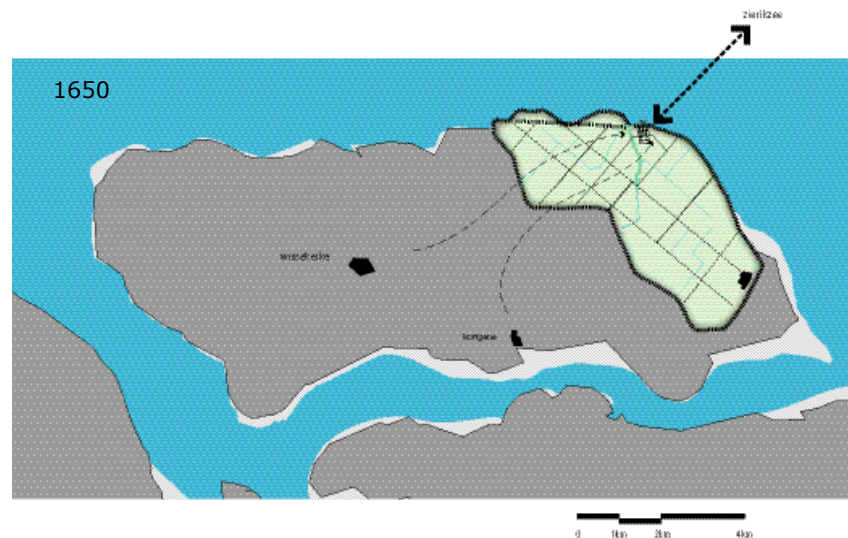
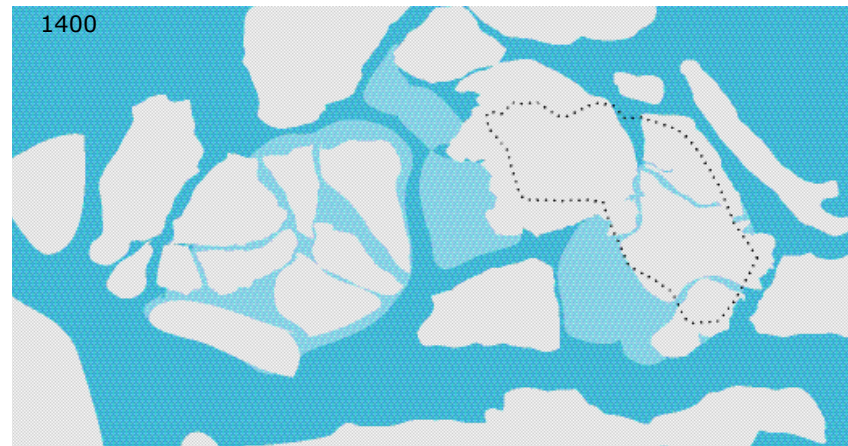


Land reclamation 1200-1800

Legend

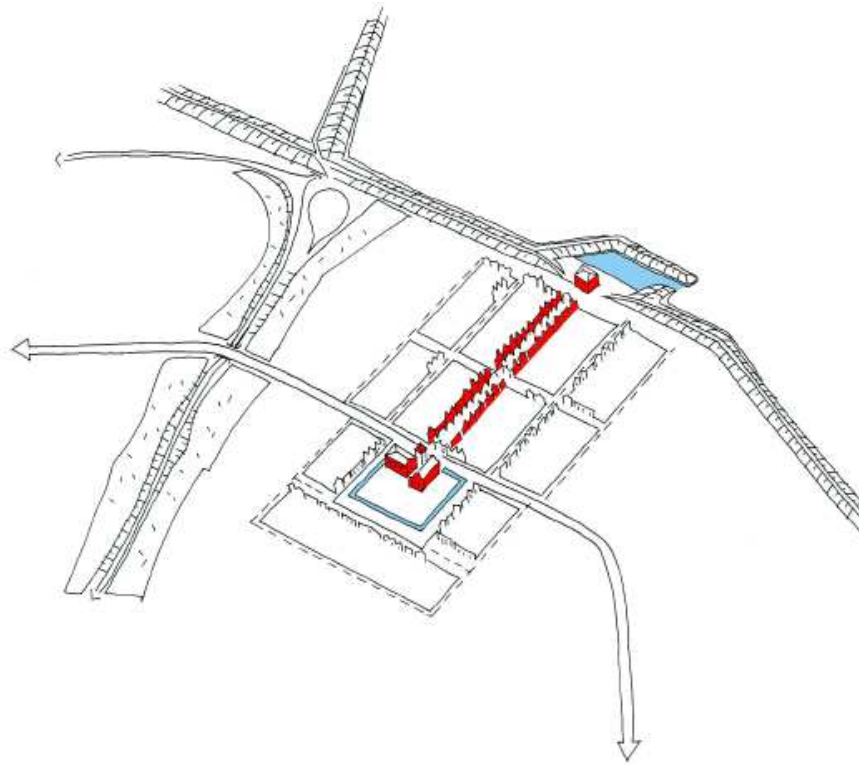


Land reclamation - detail





Colijnsplaat



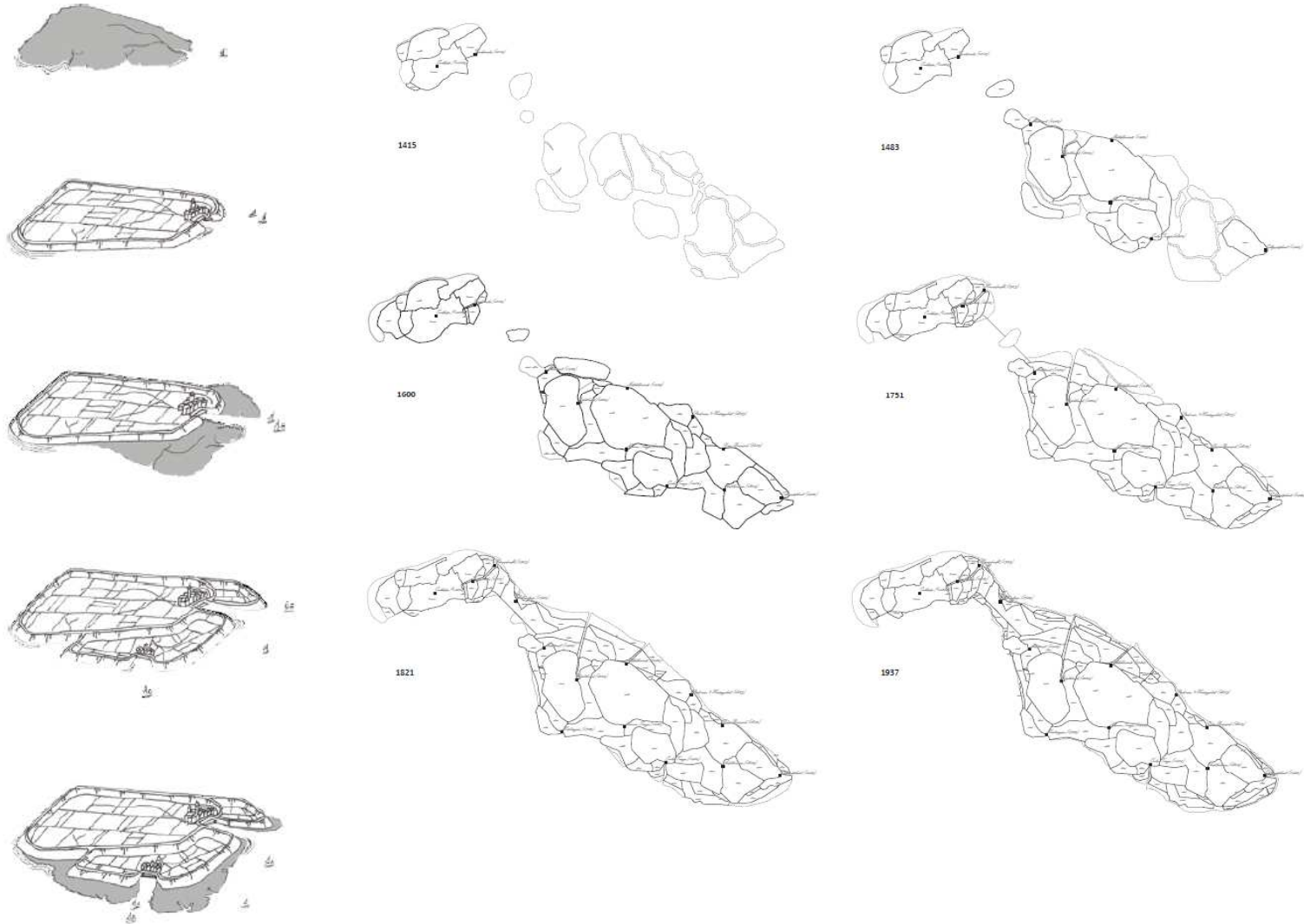
Wedding ceremony, Colijnsplaat
1938

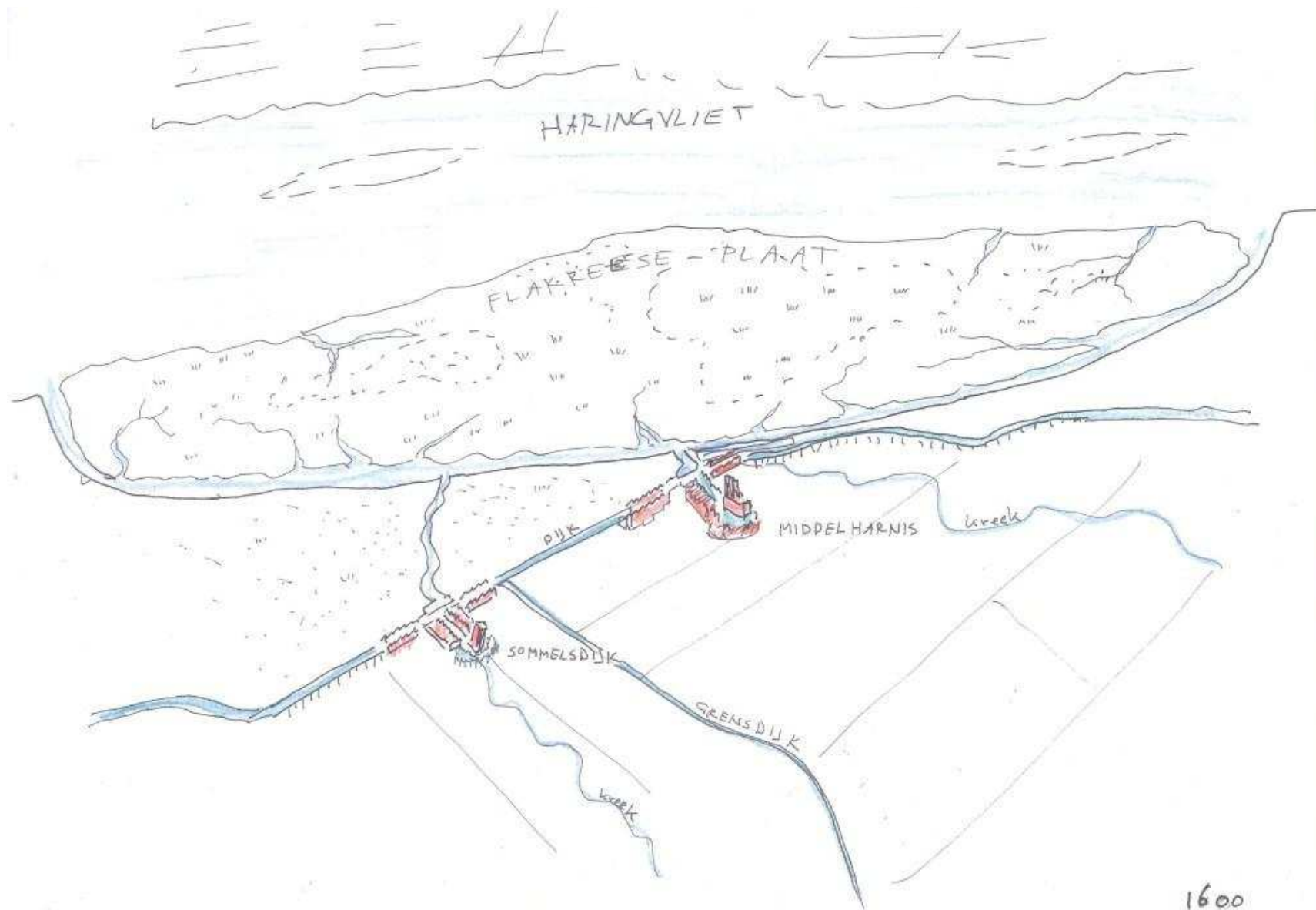


Voorstraat (lit. Frontstreet) perpendicular to the dike

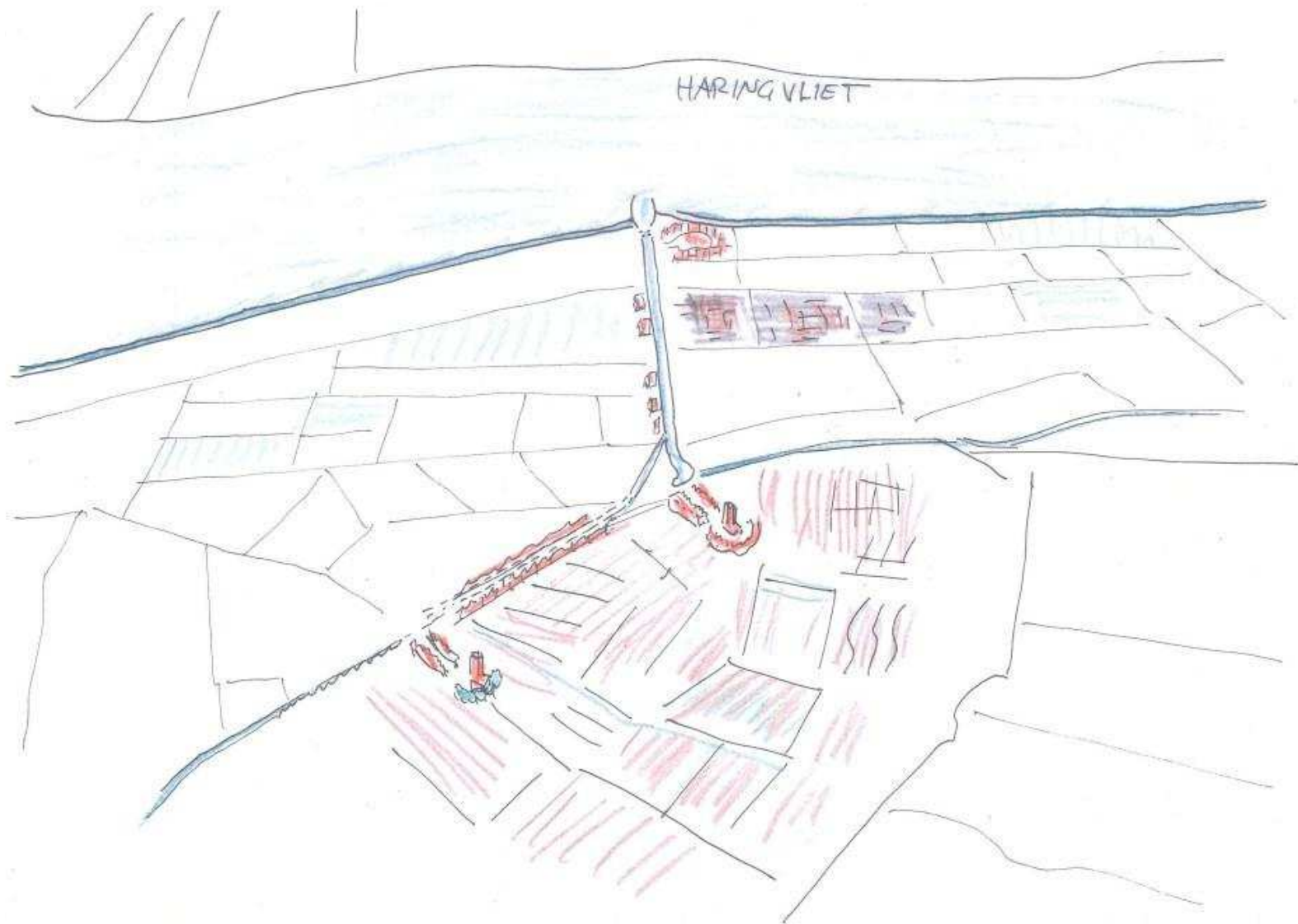


Goeree-Overflakke 1200-1800





1600

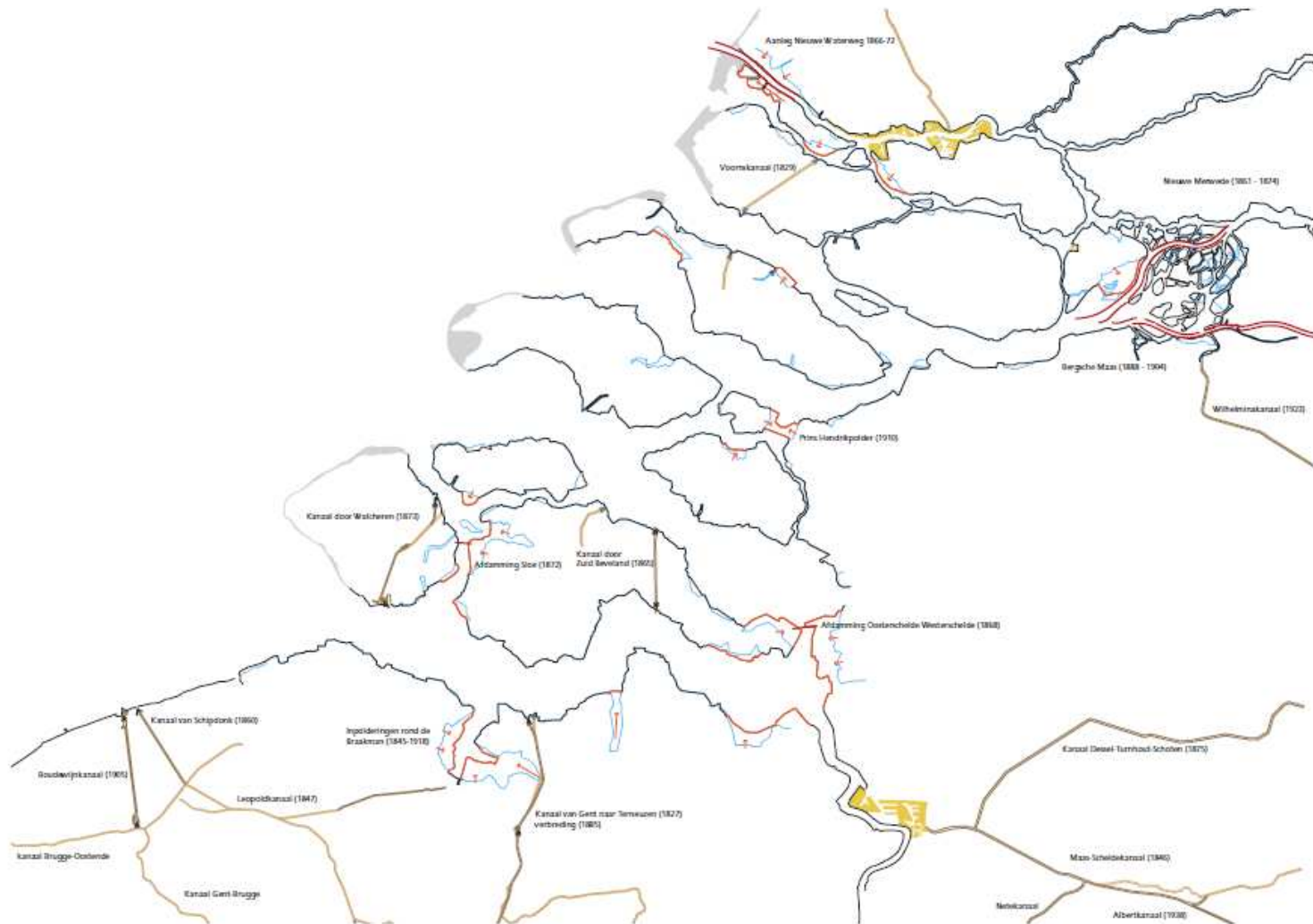


2000

Goeree-Overflakke 1450-2000

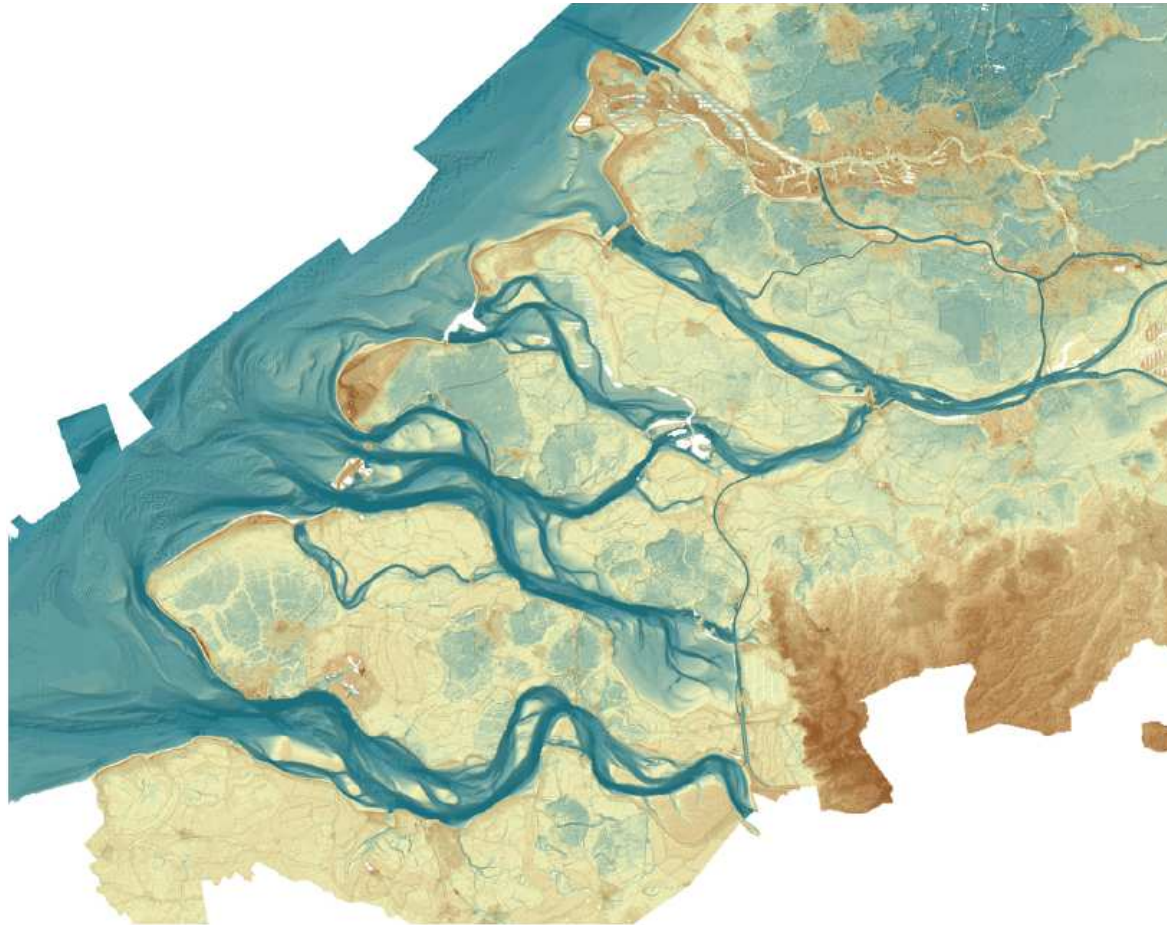


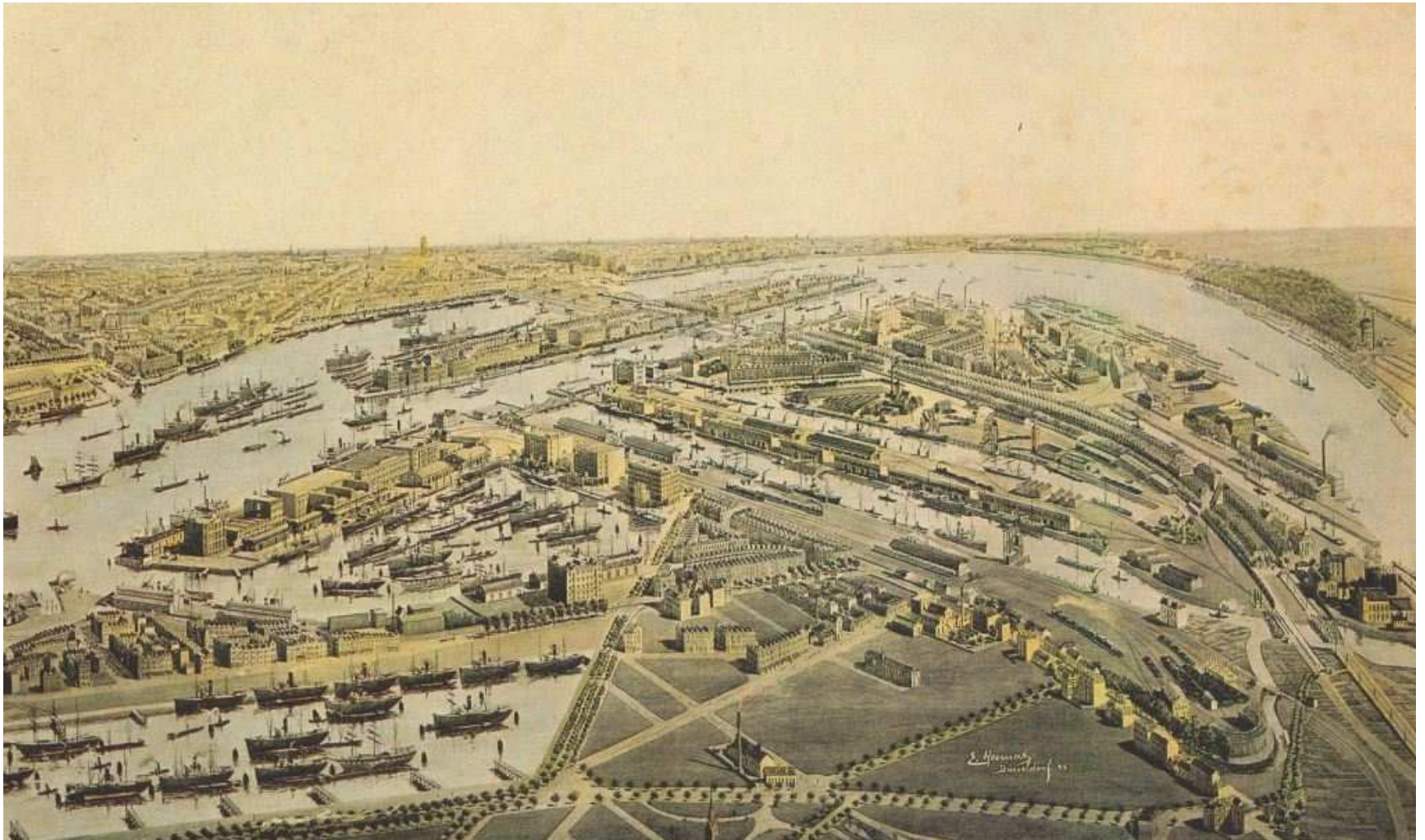
1st intervention 1860-1880



The **first** large intervention in the delta: **opening the branches**

Fixation of the discharge at the Nieuwe Waterweg







HET LEVEN
ILLUSTREERD
 VERD • DOOR • FRANS • VAN • ERLEVOORDT
 VERDIE-BUREAU: AMSTERDAM ADMINISTRATIE-ADVERTENTIËN:
 KRACHT 285-91 KEIZERSGRACHT 268. 8

HET EXTRA VOETBAL-NUMMER
 VERSCHIJNT MORGEN DINSDAG.
 212 PAGINA 412.

Versijnt elke Maandag. Abonnementsprijs per kwartaal f 2.50 franco huis binnenland. Ned. Indië en Buitenland f 14,— per jaar. Losse nummers 20 cents. Abonnements kunnen ten allen tijde worden opgezegd, doch kunnen slechts worden opgezegd aan het einde van het jaar. Tarief voor plaatsing van advertenties op aanvraag verkrijgbaar.

TELEFOONNUMMERS NOORD: REDACTIE 8186, ADMINISTRATIE 4060 en 8051.
 De Gironummers Administratie „Het Leven” zijn: Gem. Amsterdam L. 150 en Postgiro 55533.

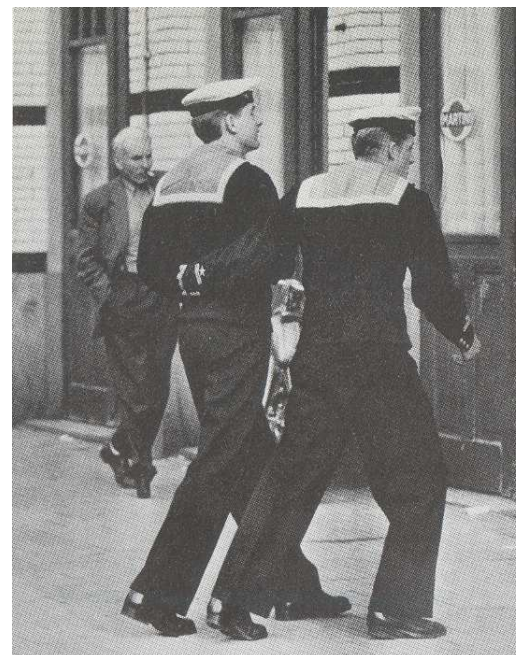
In de Rotterdamsche „China-town”.

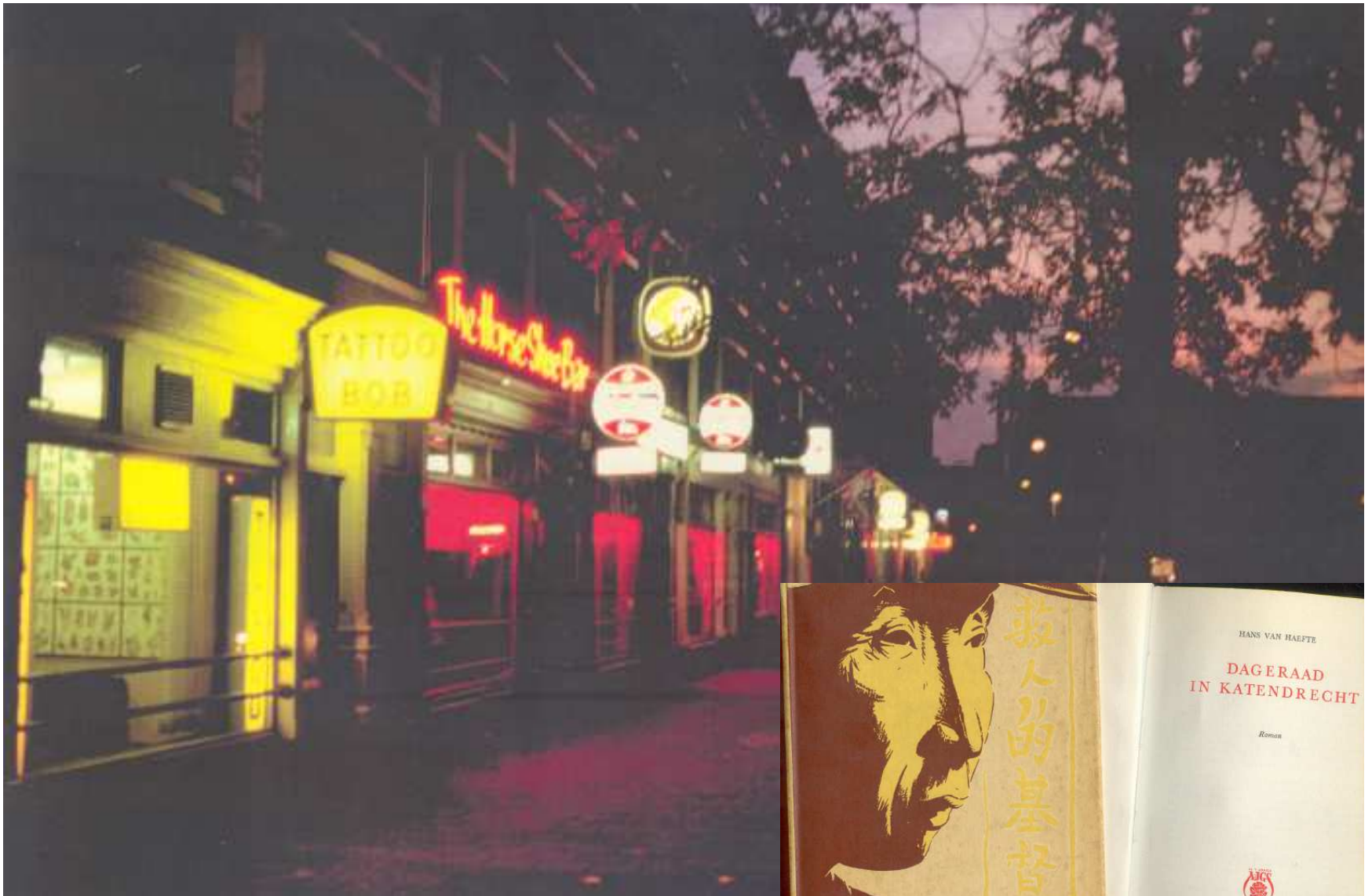
Met 13 snelkieken van een onzer eigen fotografen.

ARCHIEF
 DER GEWEL
 ROTTERDA



„John Chinaman” met z'n dochtertje in de Katendrechtse Chinarenstad, die in Rotterdam's Zuidwesthoek is ontstaan, en op de volgende bladzijden wordt beschreven: een allerleukst groepje, zoals men ze daar vele ontmoet.





Transformation of the port





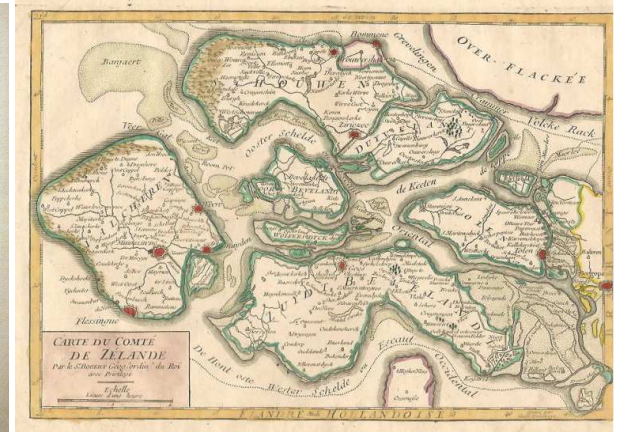
The delta: between Holland and Flanders



Bos Atlas Geschiedenis van Nederland



J v Deventer 1602



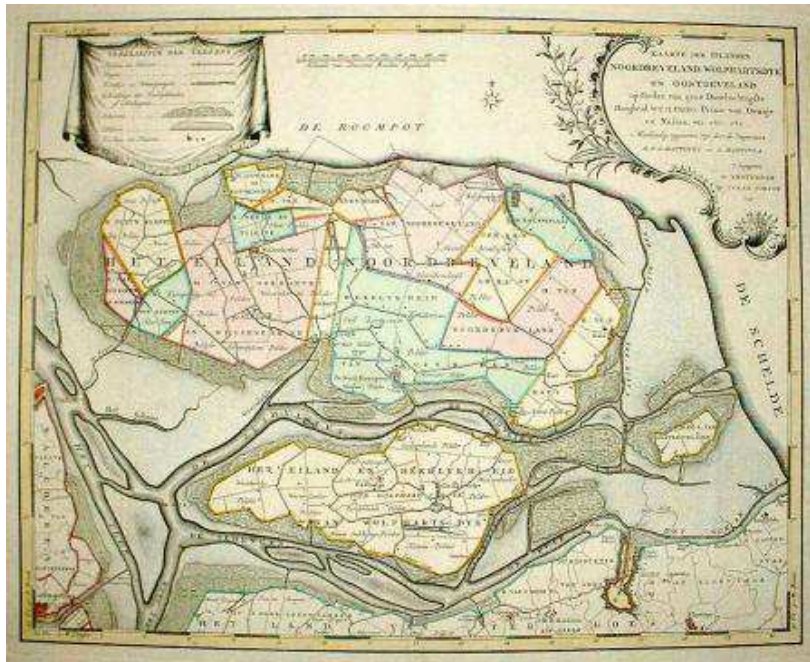
G.R. de Vaugardy 1749

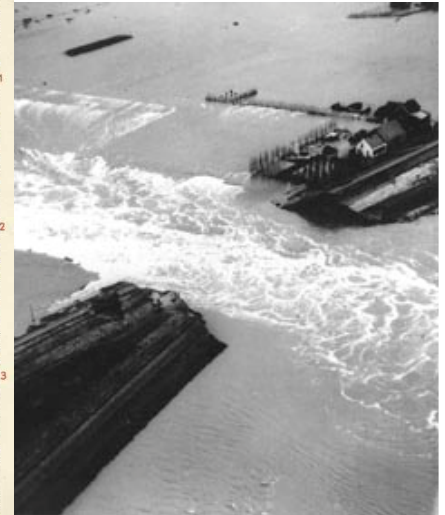


F.L. Gussefeld 1785

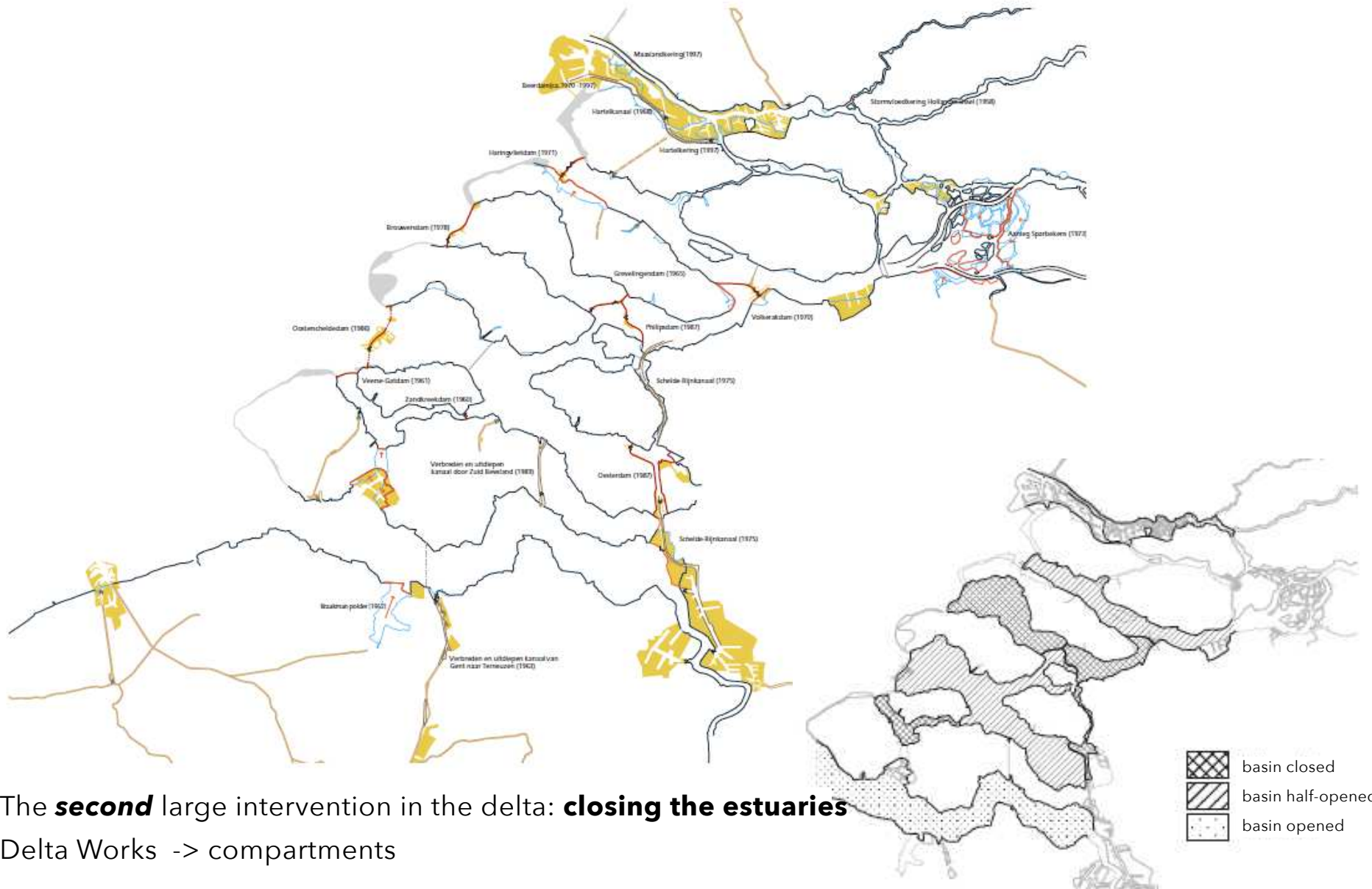


Small units and communities: polders, ambachten*, heerlijkheden**, cities etc.





2nd intervention 1960-1980



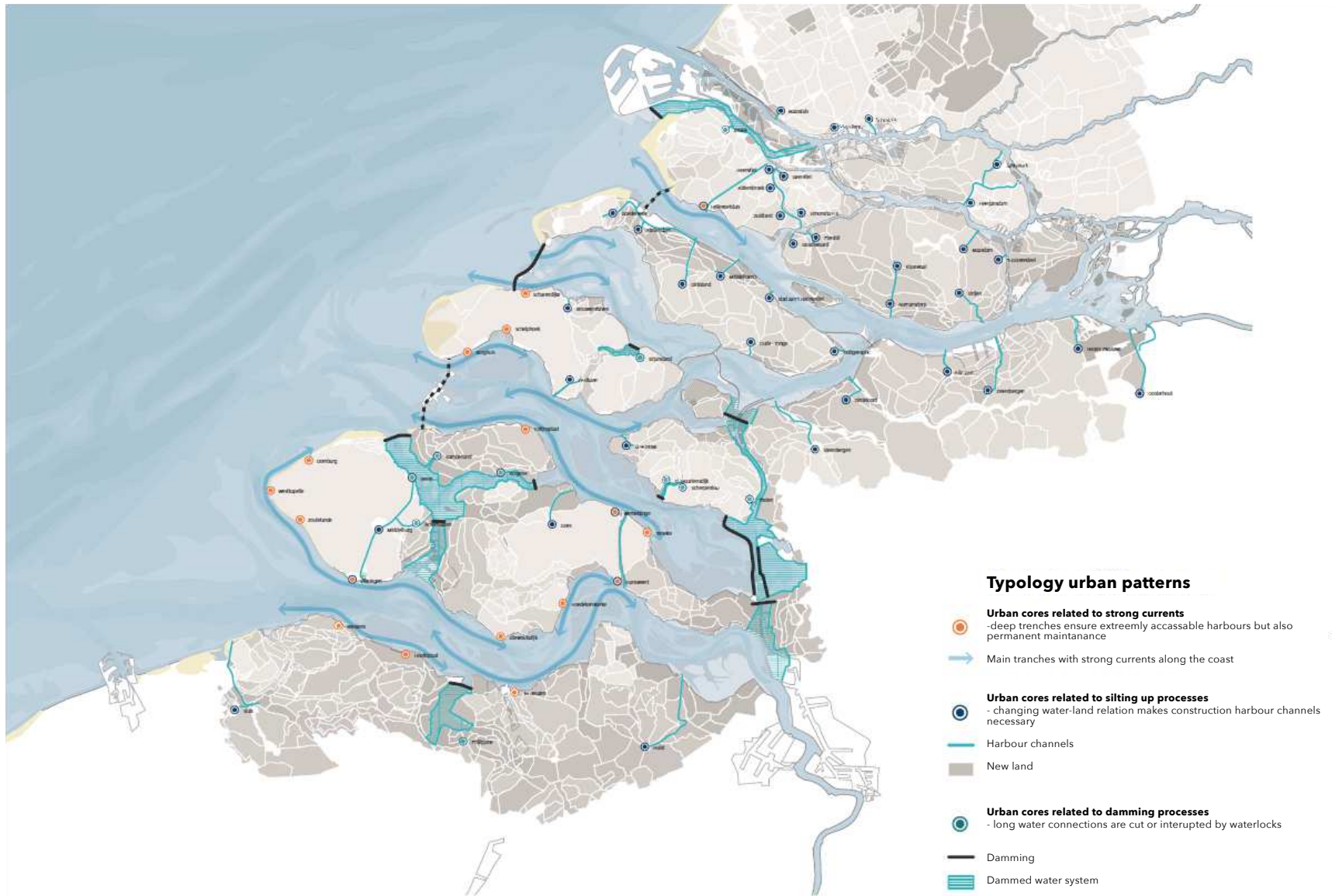
The **second** large intervention in the delta: **closing the estuaries**

Delta Works -> compartments

Building the Dutch Nation - *a Modern Project*



Silting, eroding and dammed cities



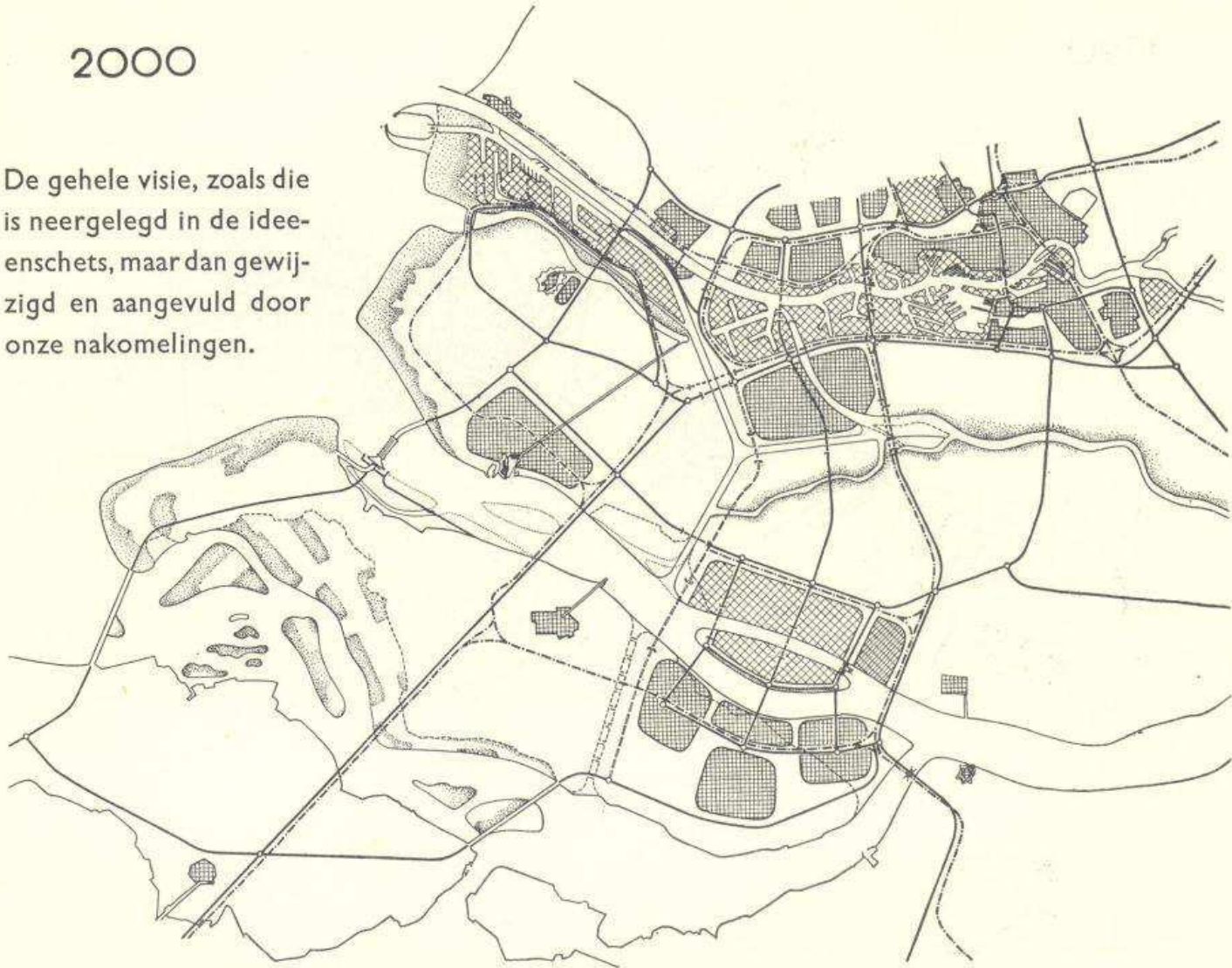
The solidified dynamics of the edges



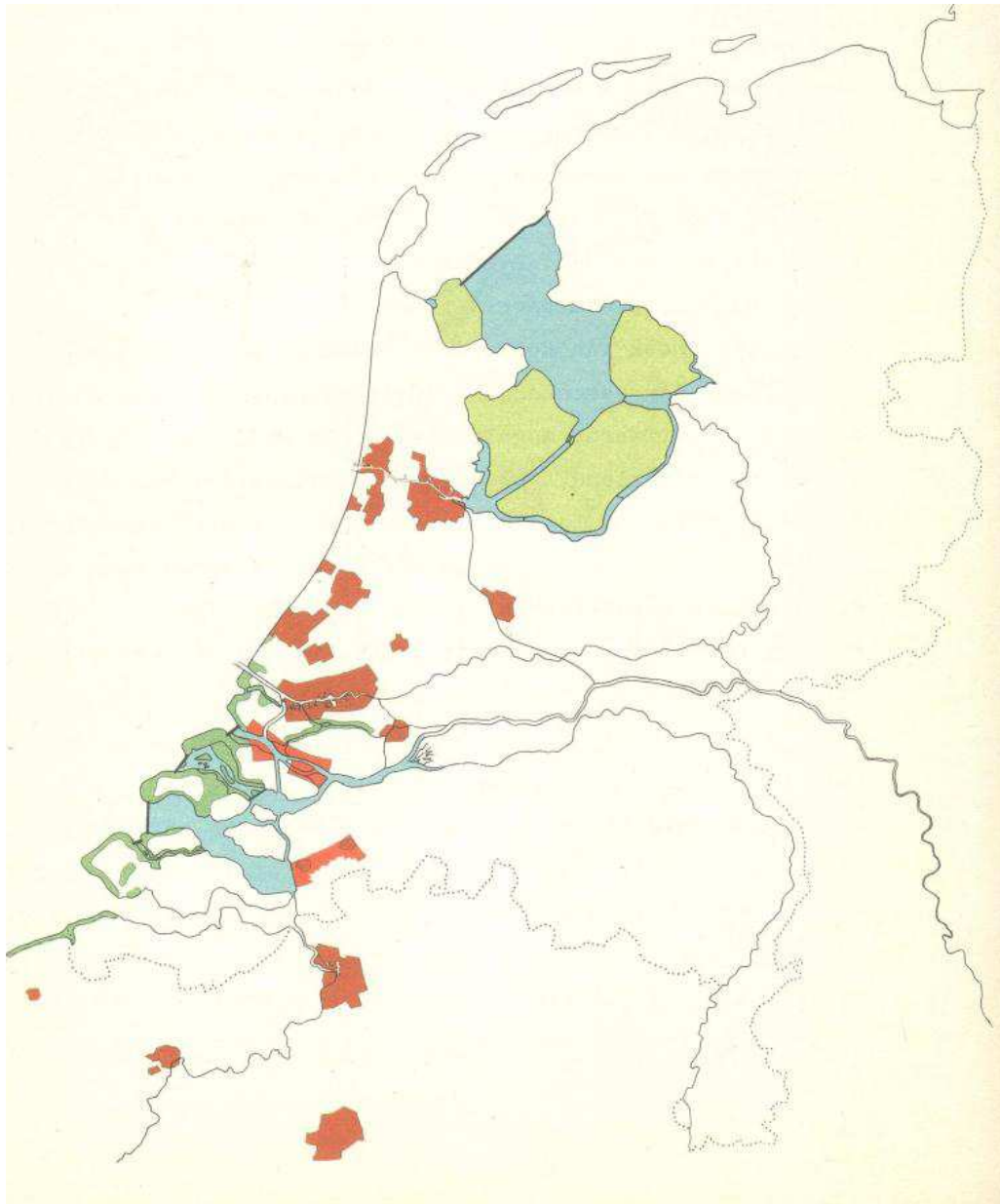


2000

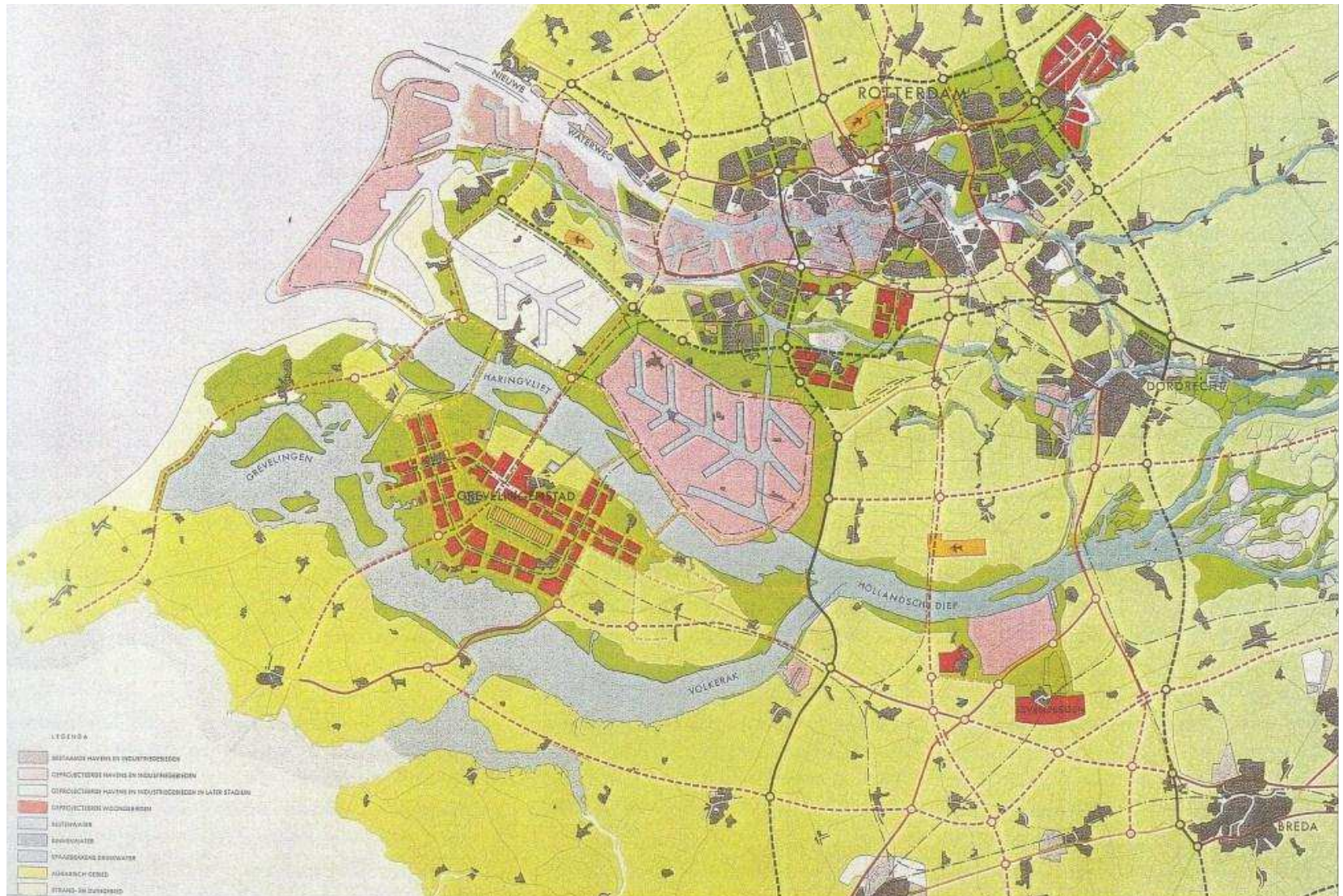
De gehele visie, zoals die
is neergelegd in de idee-
enschets, maar dan gewij-
zigd en aangevuld door
onze nakomelingen.



Vision for the year 2000



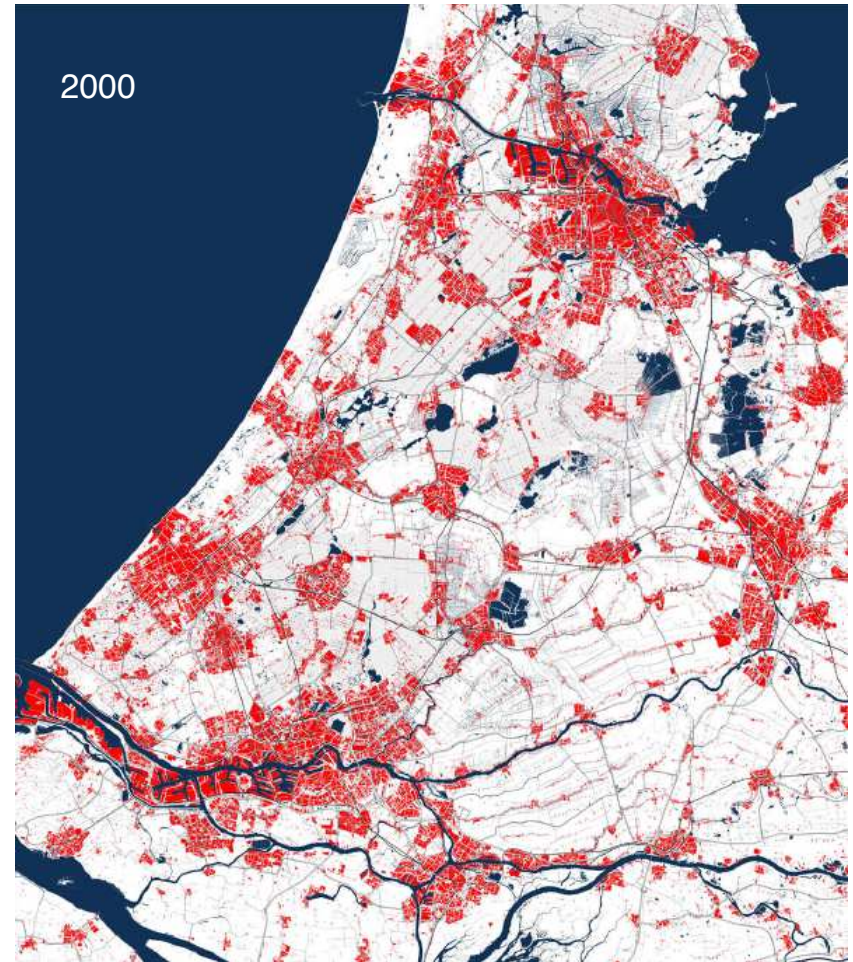
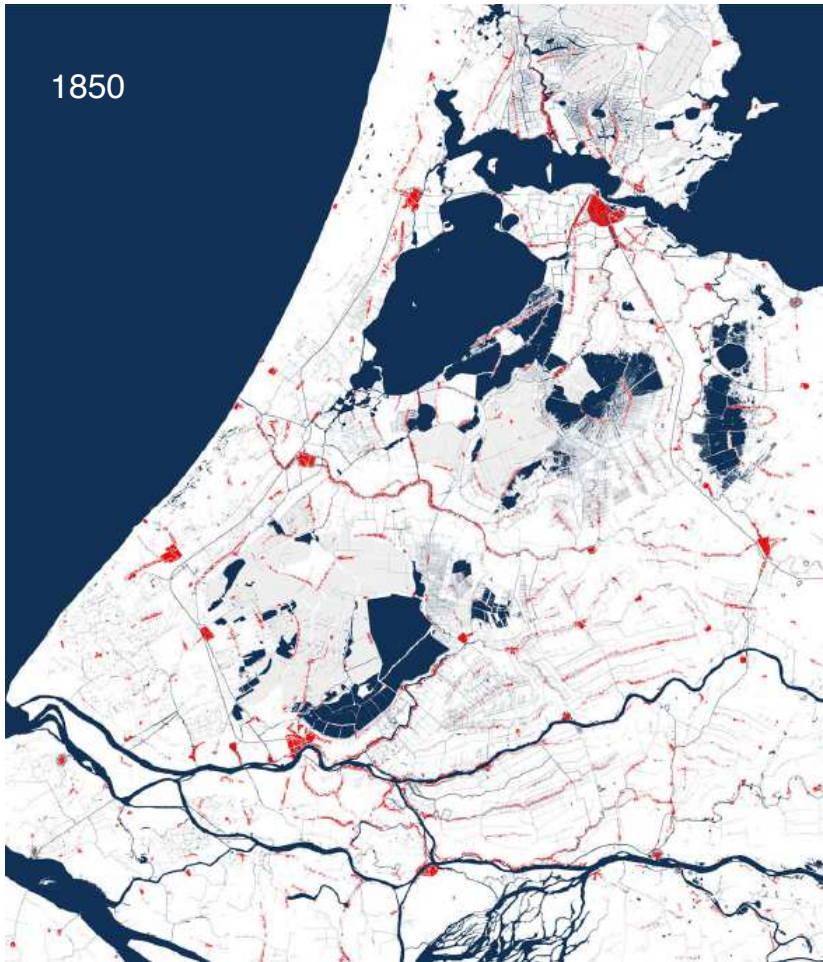




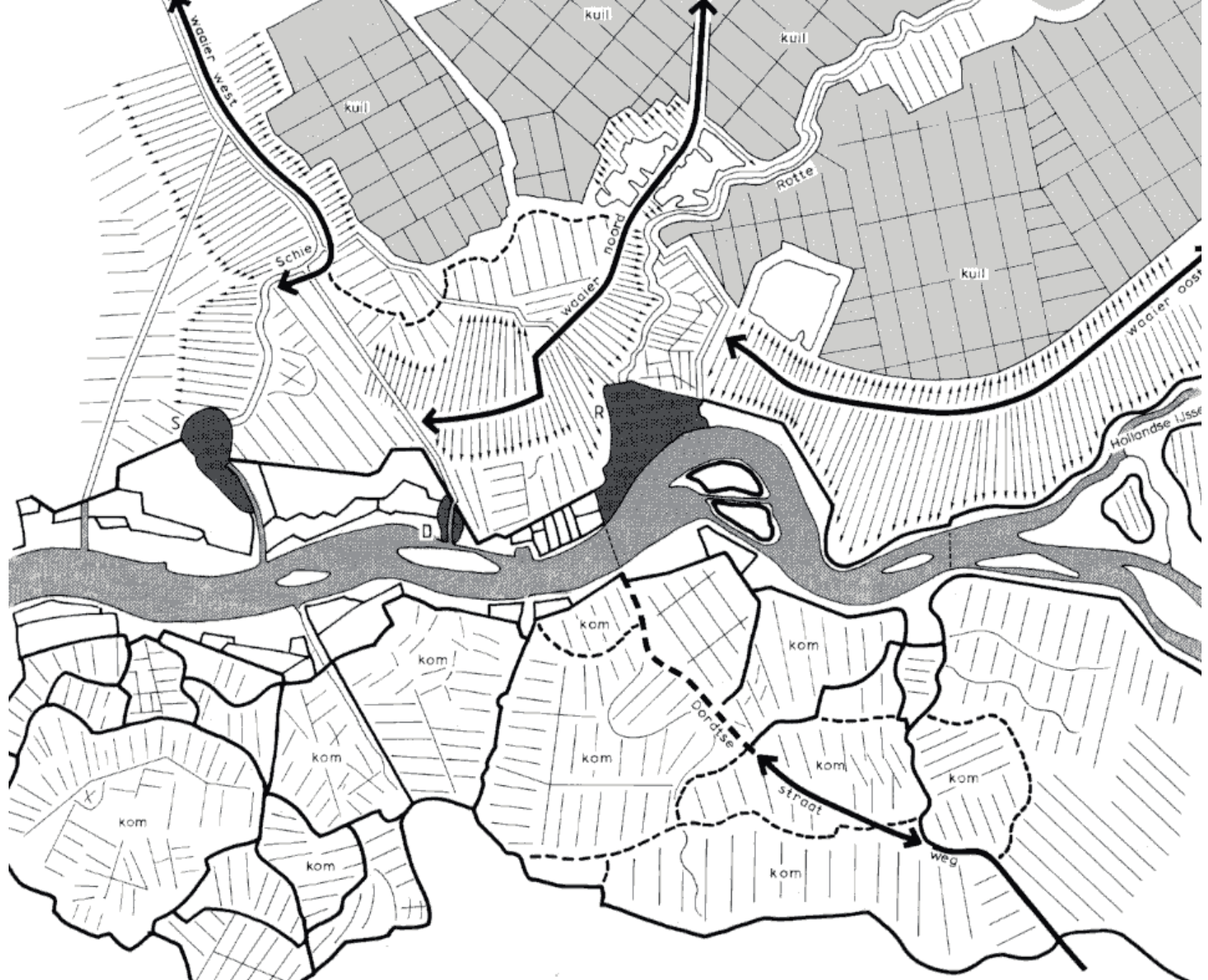


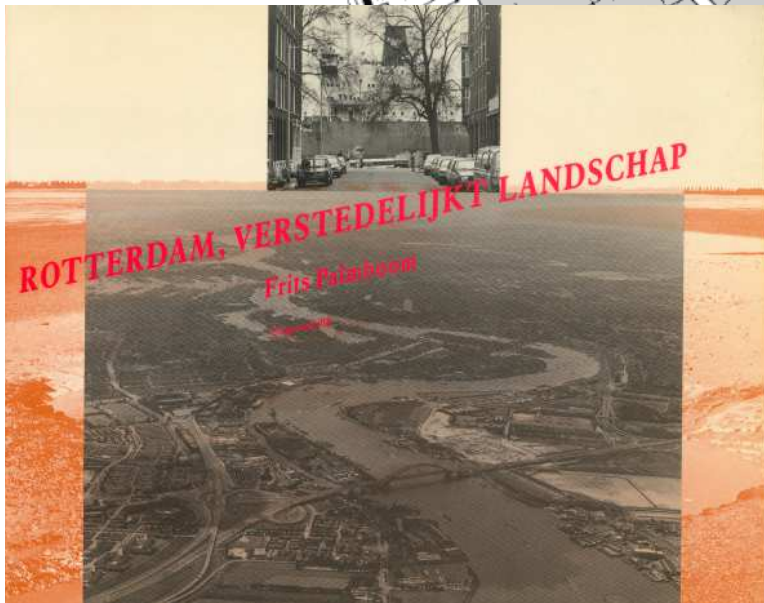


“Randstad Holland”









"Working with nature"



Depoldering island Tiengemeten, 2006

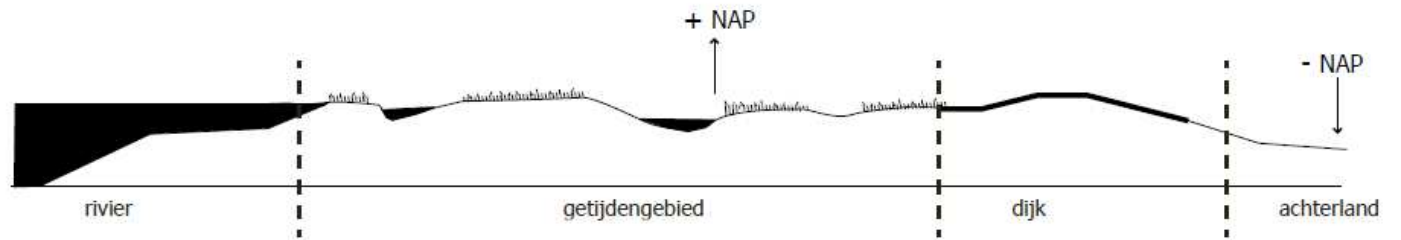


3. New plans for the delta

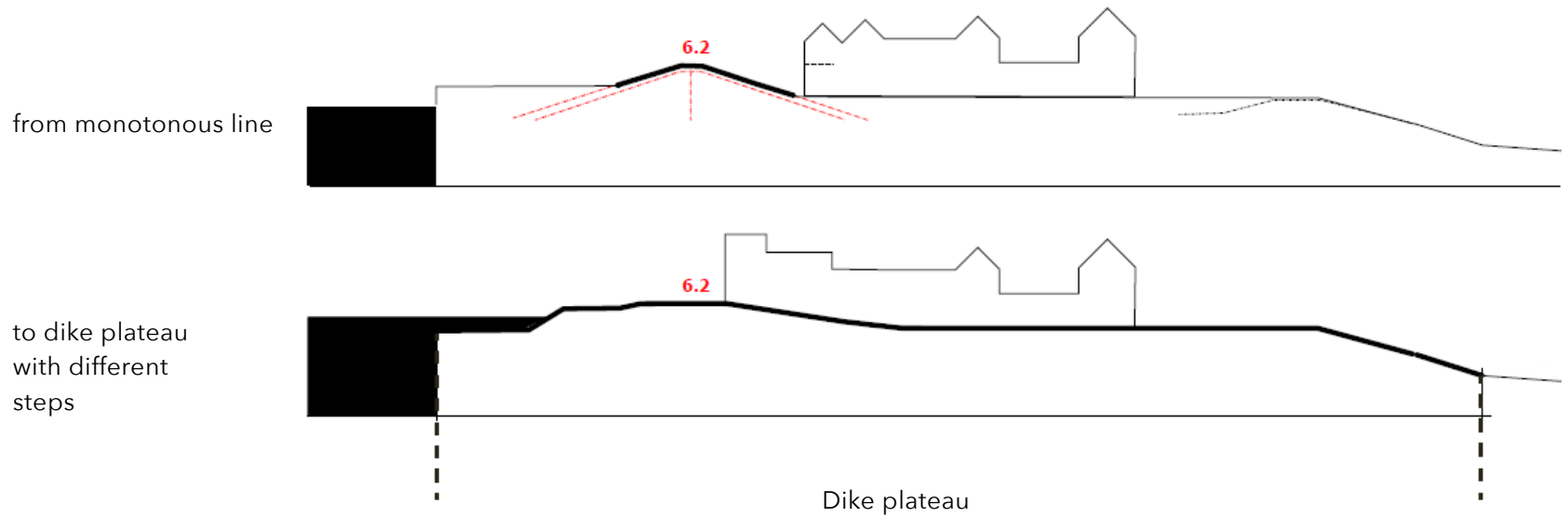
1. **Repair estuarine dynamics, proposal WNF 2012**
2. **Reinforcement dikering 14 Rotterdam, graduation project**
3. **"Blue Blood", 1st prize EO-Wijers competition, Kuiper Compagnons, 2008**
4. **New green-blue structures Rotterdam-Zuid, EMU students, 2010**
5. **Outer dike areas as archipelago, EMU students, 2010**





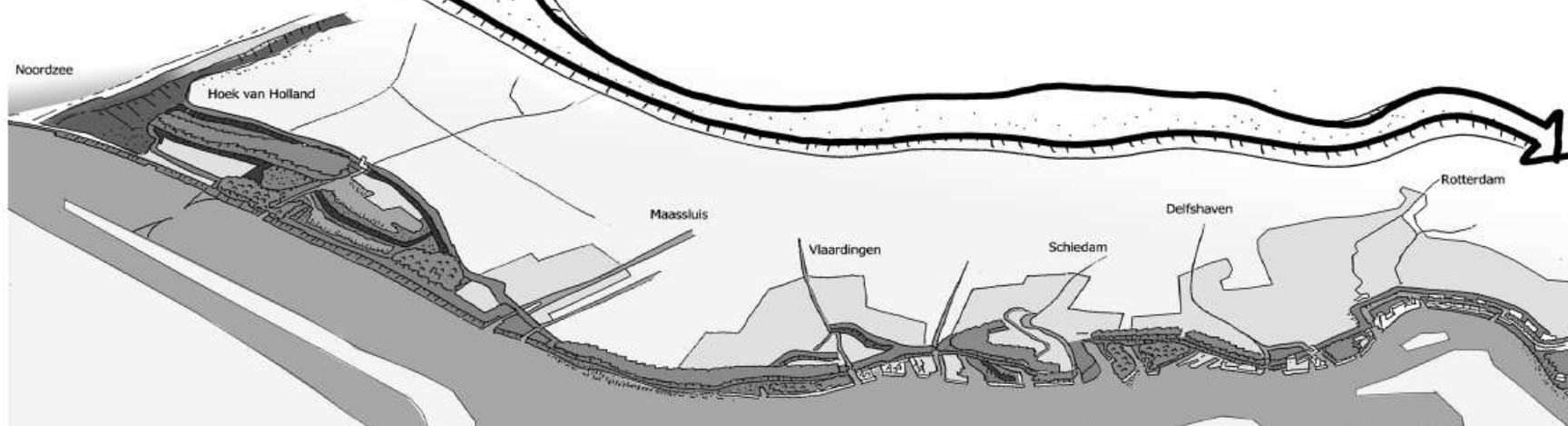


Abandoning of just the line to a broader plateau
Connecting city and river by integral approach

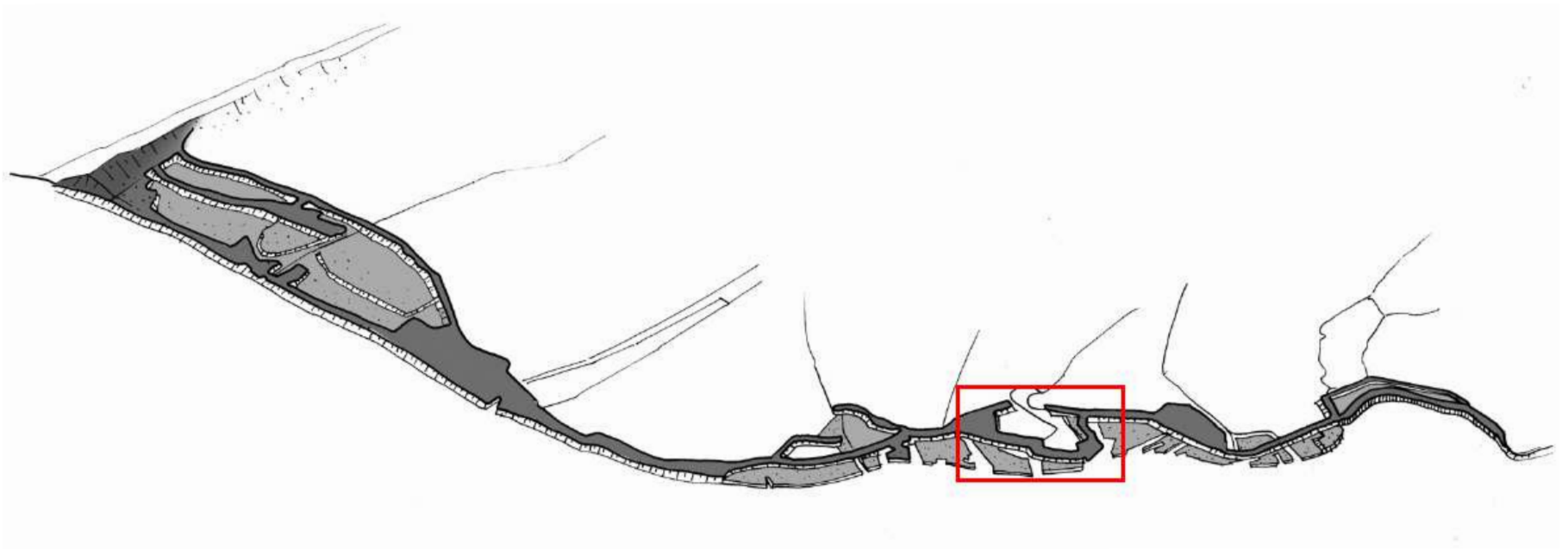


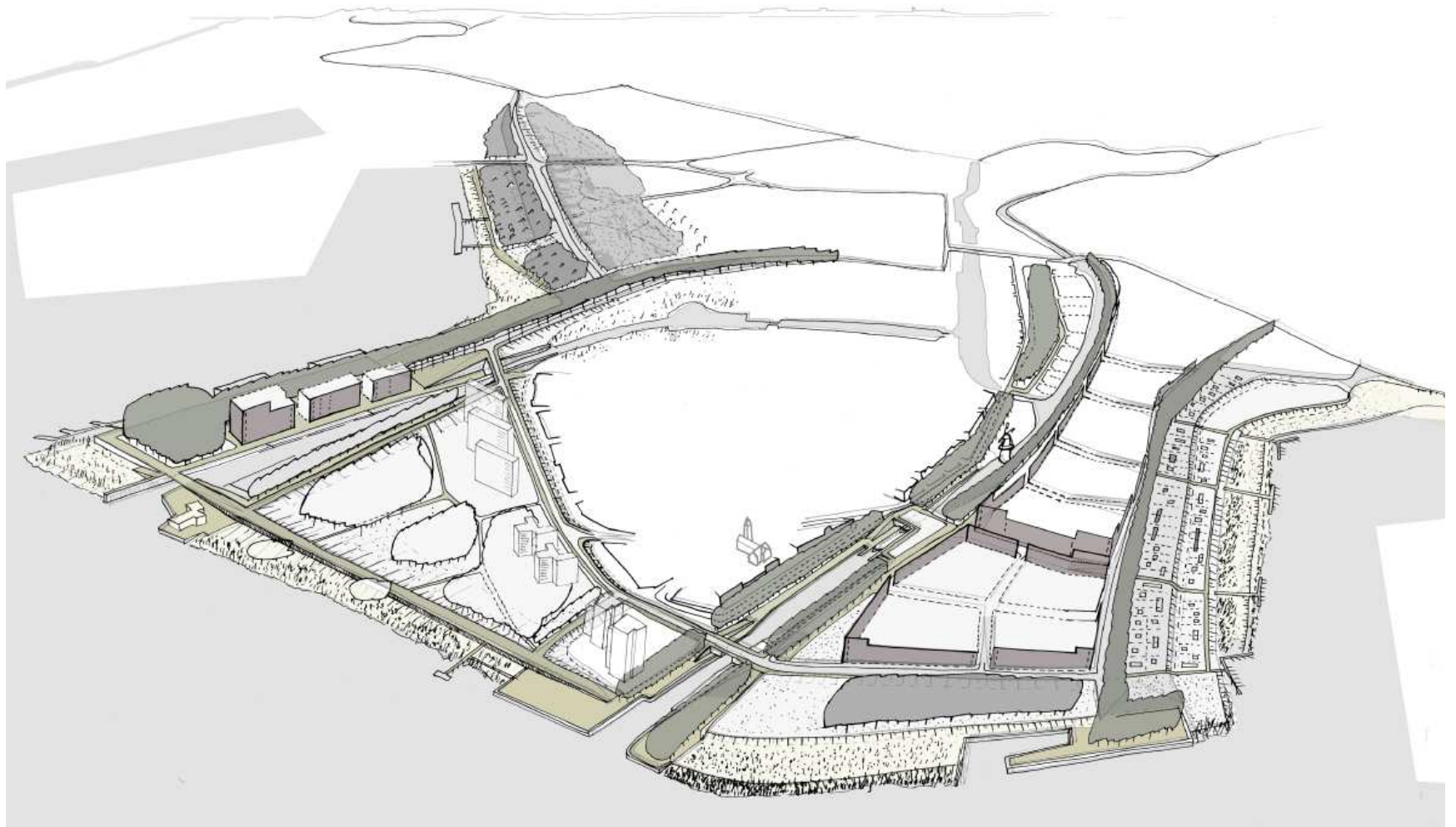
routes vanuit
de stad en over
het water

continue routes
langs de rivier

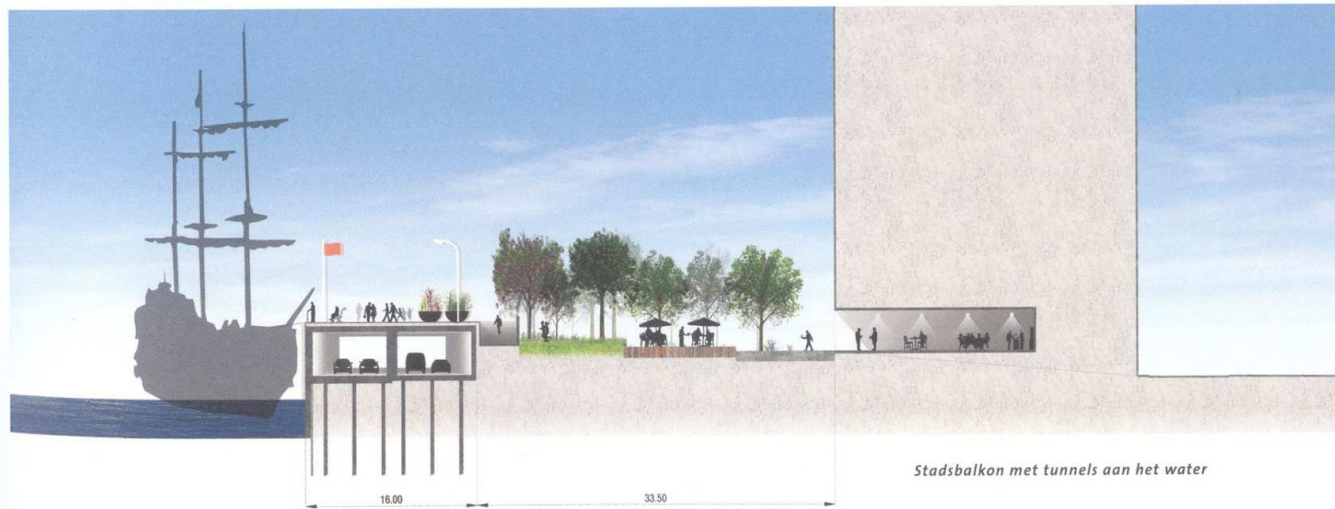
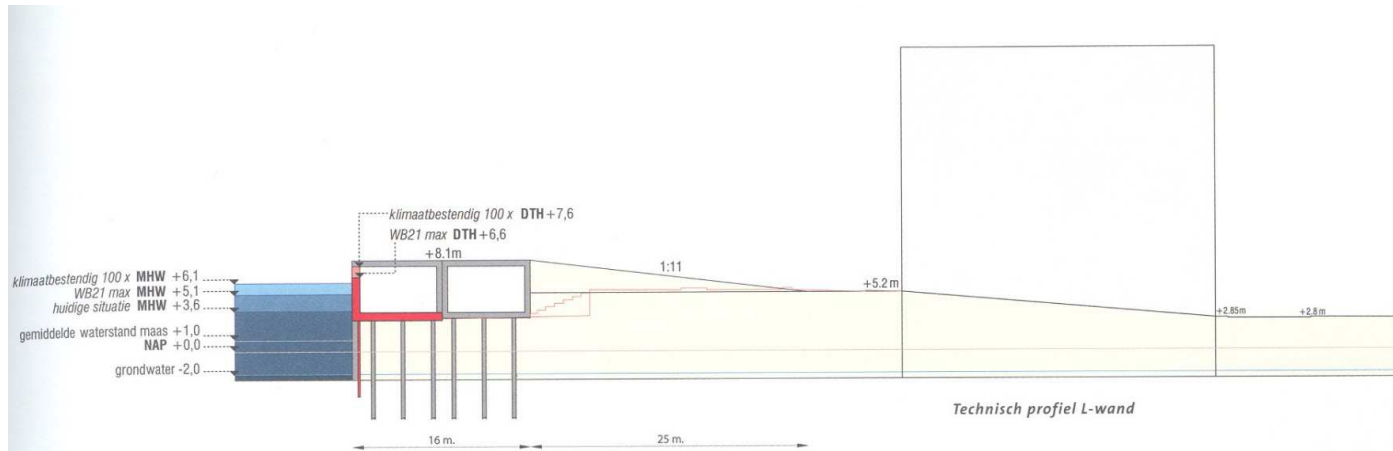


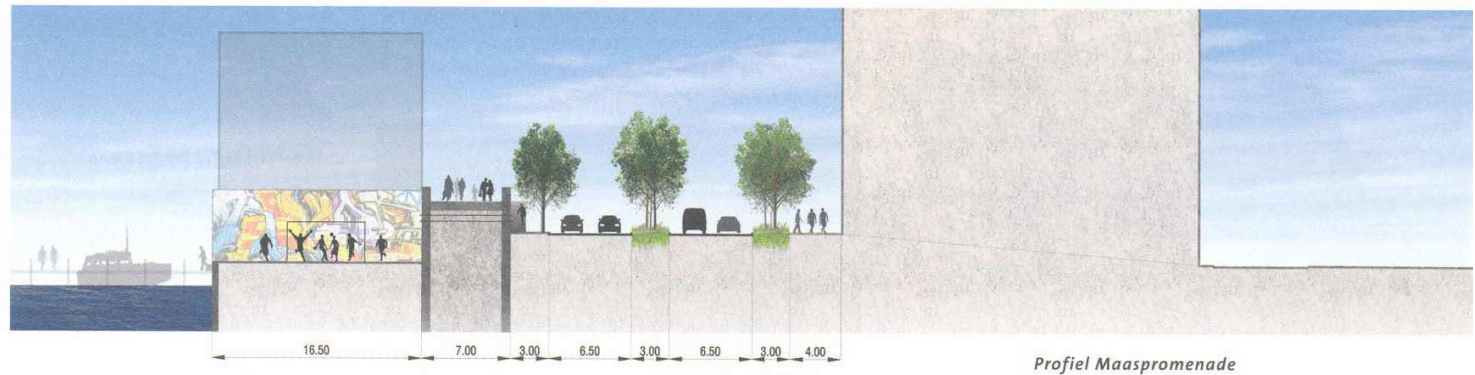
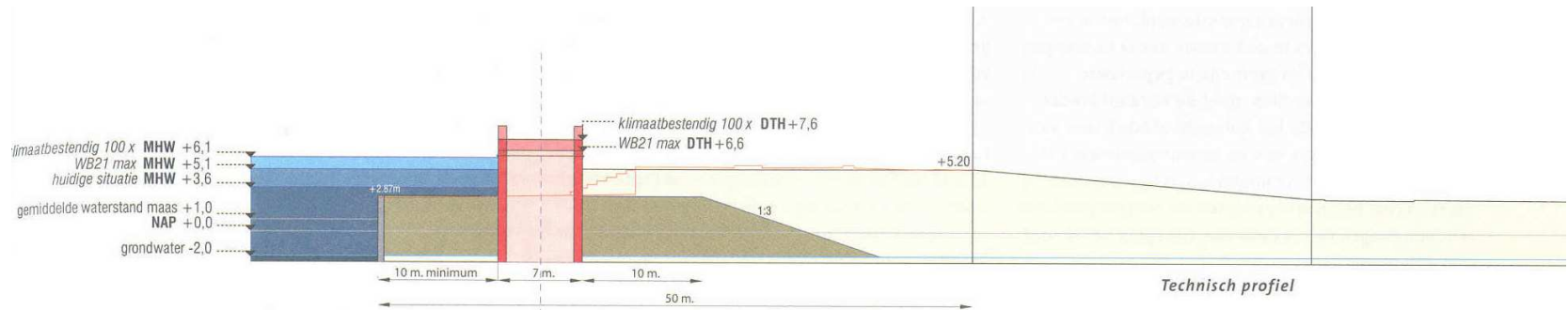
Intervention, Dike plateau with continues route along/perpendicular to river

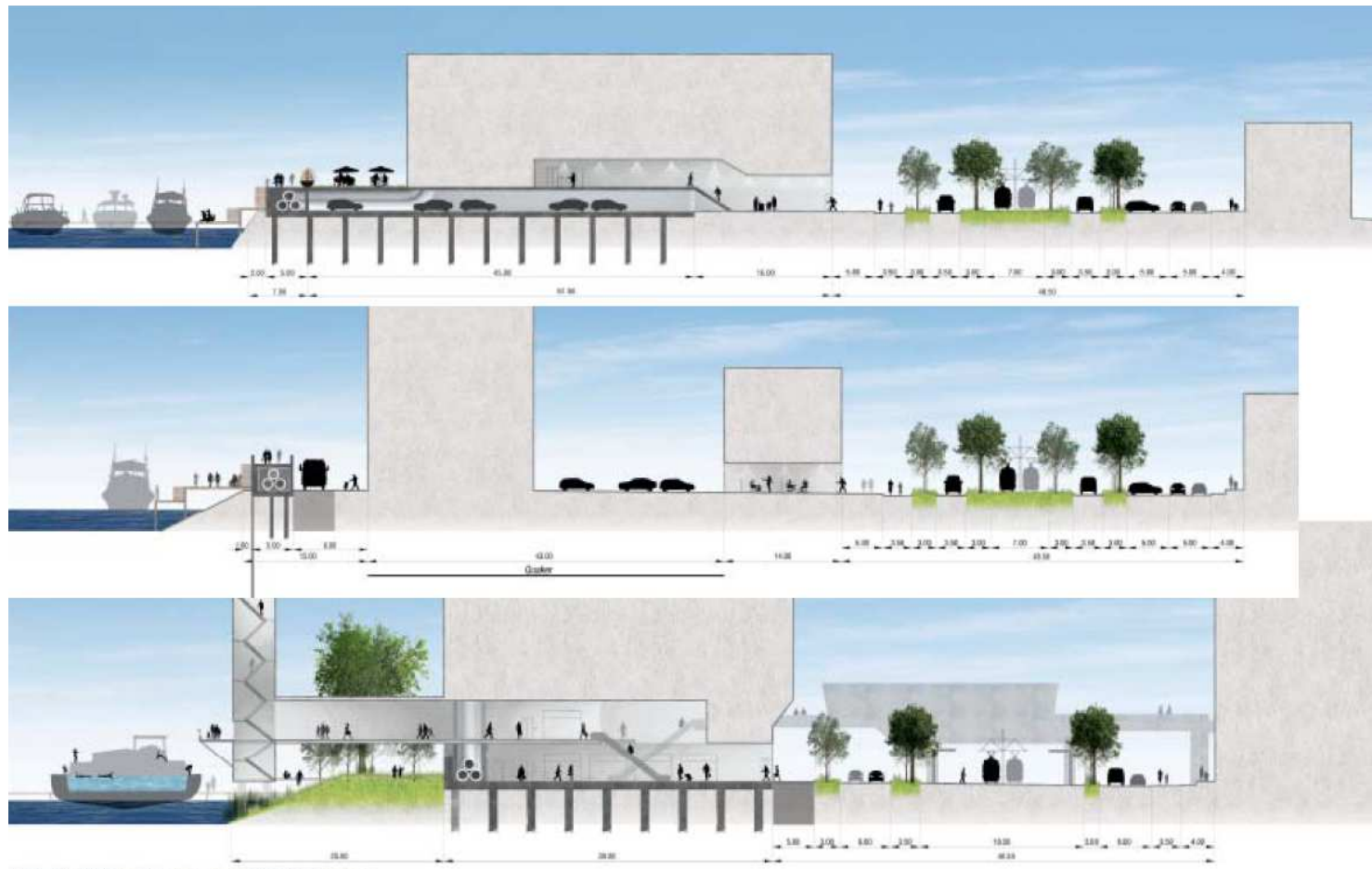












Spatial-programatic chances

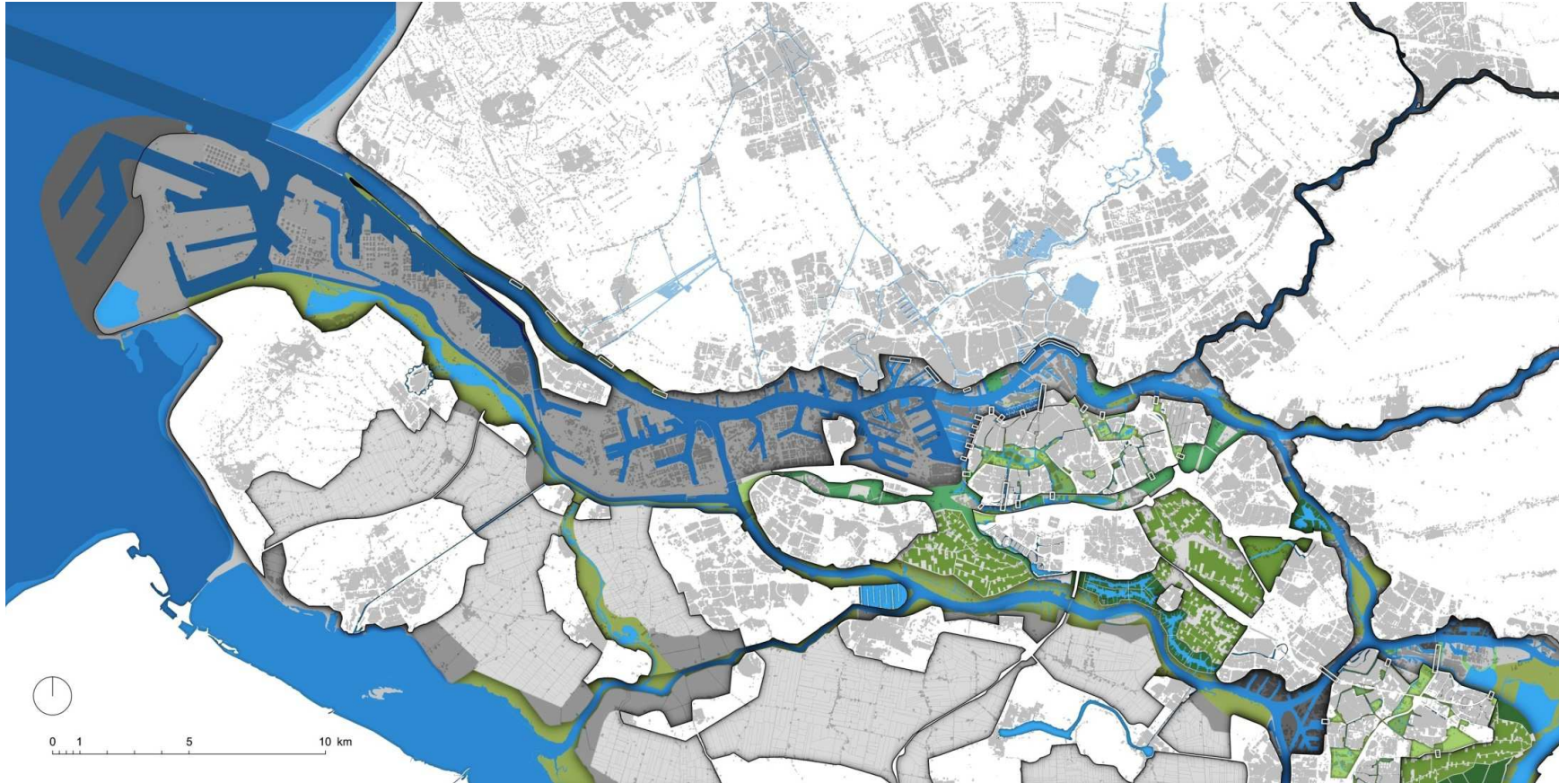
Integrated solutions are feasible, but only in dire need of space

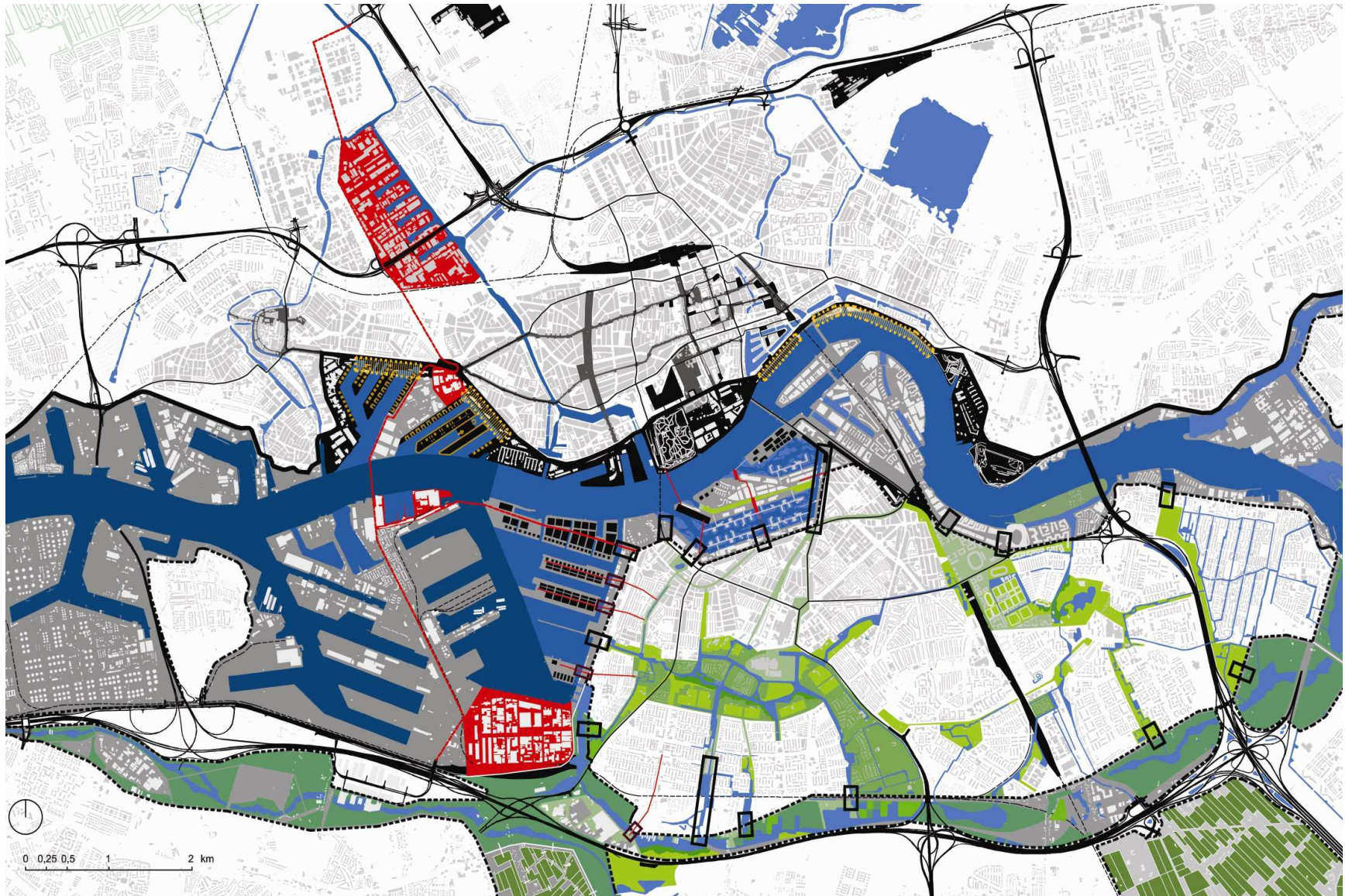


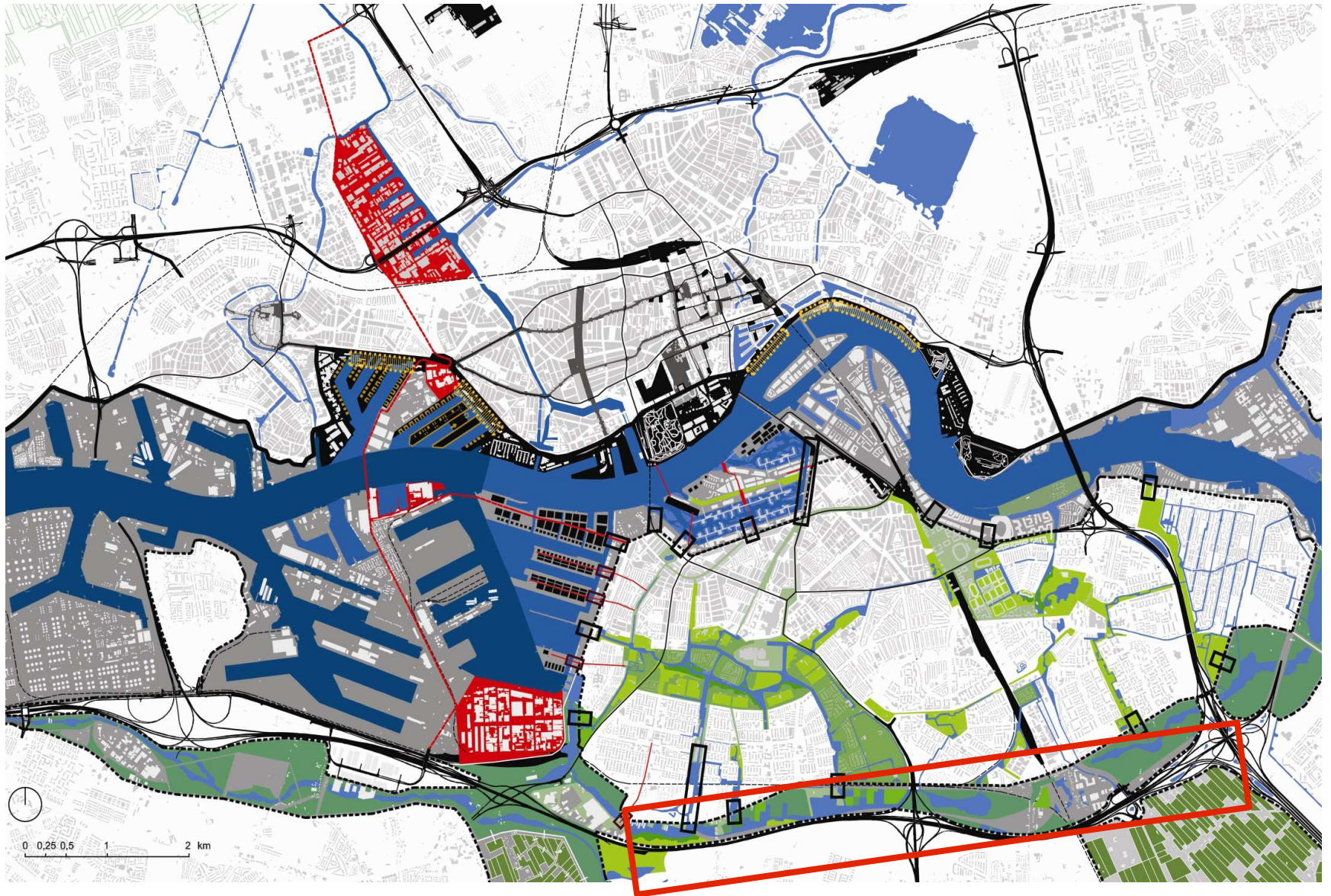
1st prize EO-Wijers competition, 2008
"Blue Blood", Kuiper Compagnons



1st prize EO-Wijers competition, 2008
"Blue Blood", Kuiper Compagnons









A-15 zone



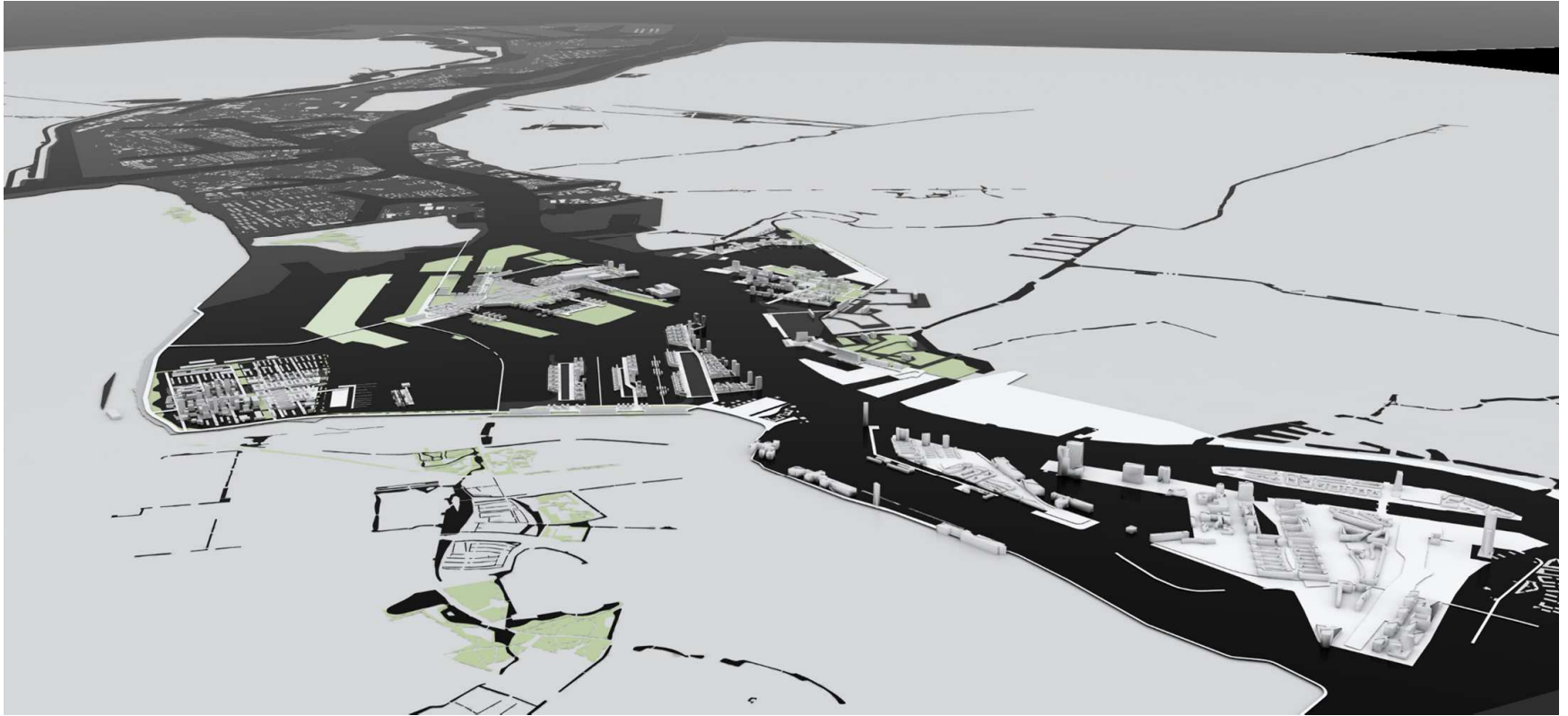
Waterpeil +NAP 3,35 m, T=1250
Met stormvloedkering

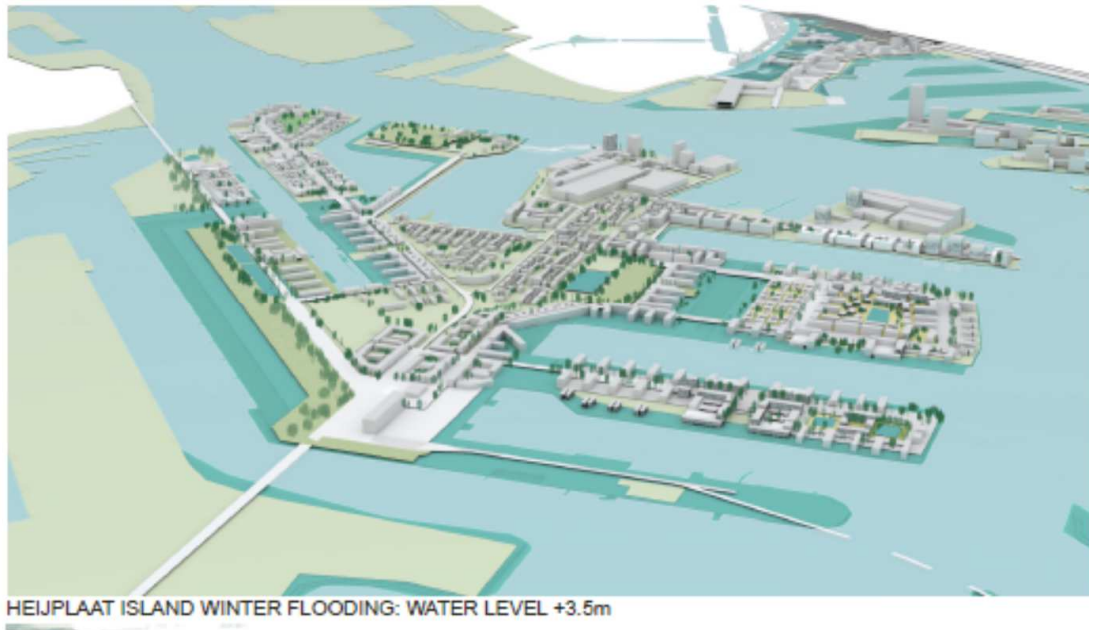
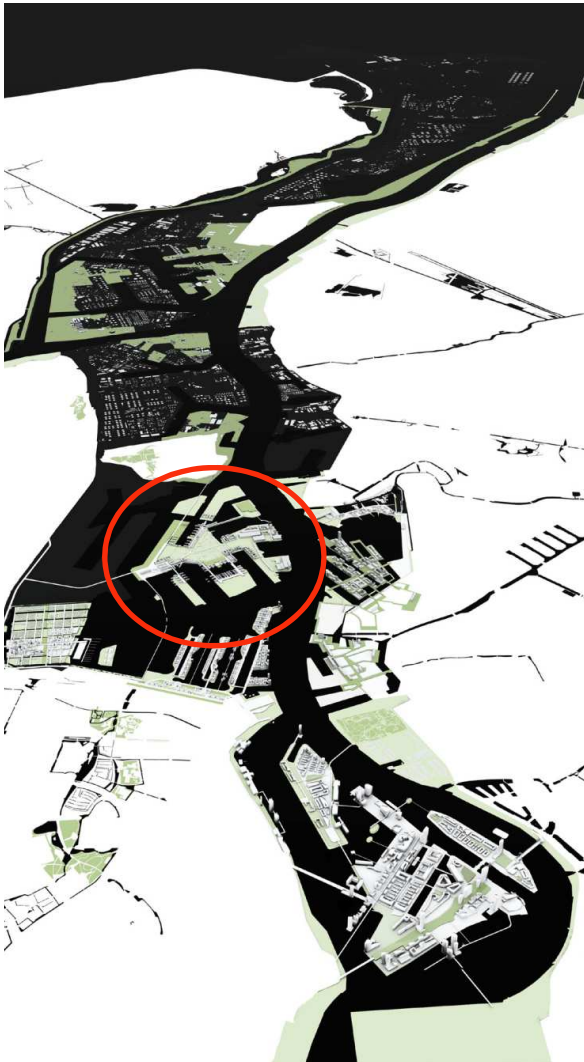


Waterpeil +NAP 4,10 m, T=1250
Bij falende stormvloedkering







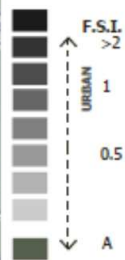
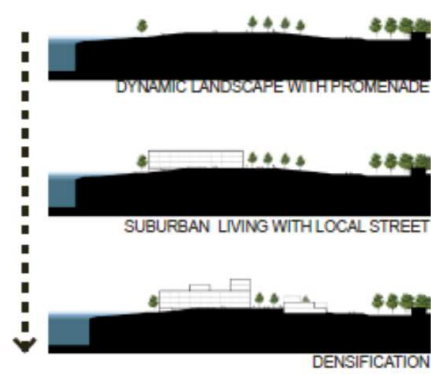




TRANSITION STRUCTURE_(B)

DYNAMIC DENSITY CONDITIONS

TRANSPORT POTENTIALS
OVERLAID ON FIRST SAFE ZON



SECTION THROUGH TRANSITION SPACE ON DIKE AND NEW URBAN AGRICULTURE DEVELOPMENTS_(A)

The city *in* and *on* the Delta



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