GDAŃSK UNIVERSITY OF TECHNOLOGY

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Urban potential of old harbour water landscapes on an inner city edge

Questions:

How to re-connect waterfront areas with the system of public spaces ?

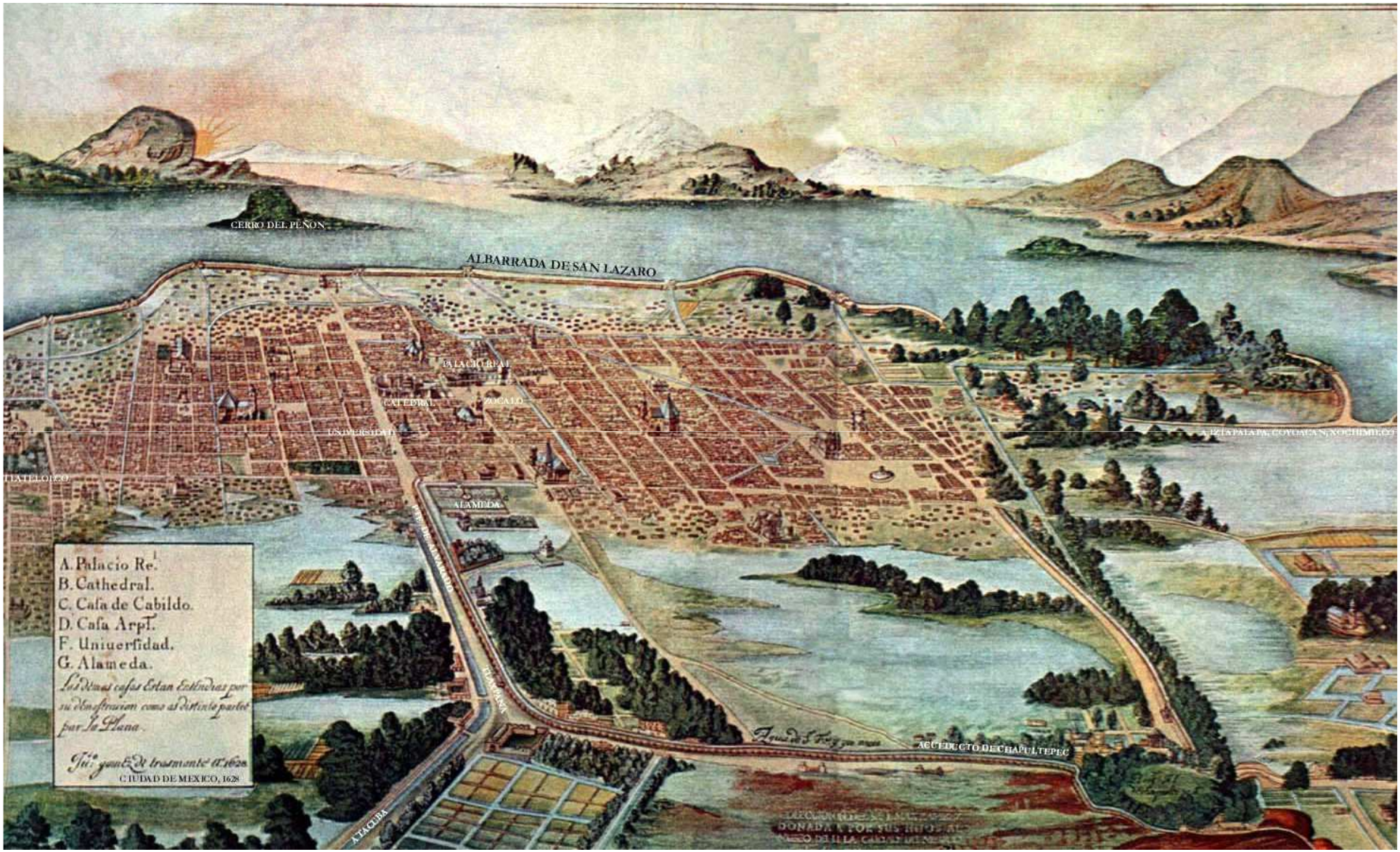
How to activate land-water boundary?

What is the land-water edge?

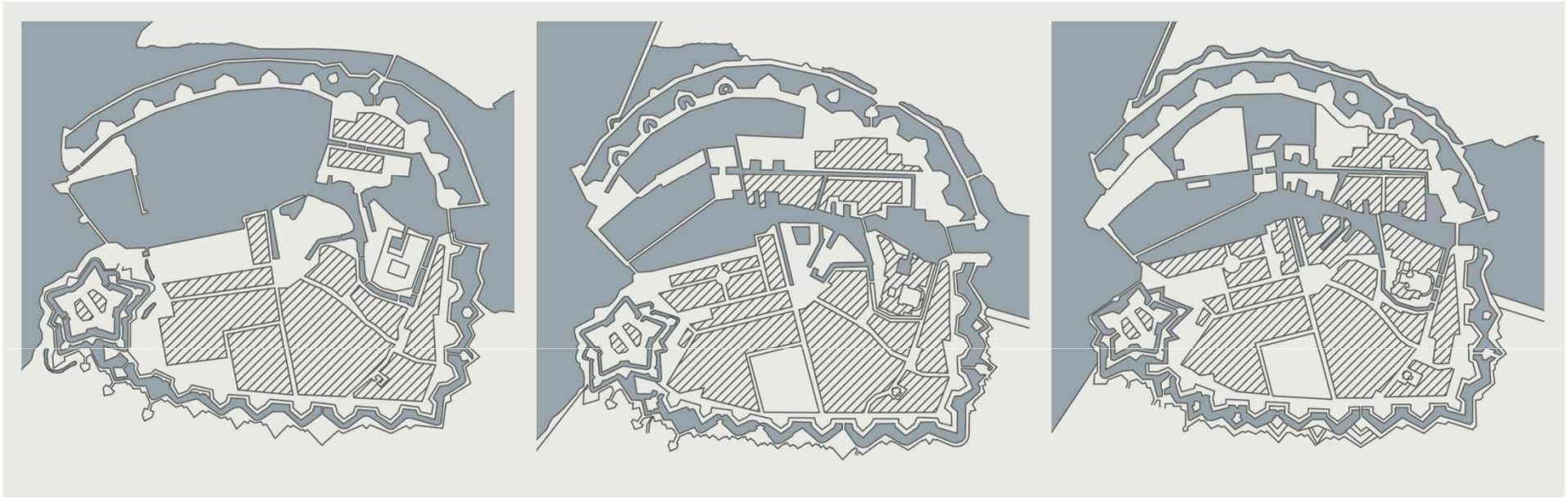
There is no such a thing as a fixed land-water edge – this edge is a process, it is a subject of negotiations

- The land-water boundary in Rostock was established in the era of industry under an assumption that waterfront areas should be isolated from the city
- Modification of the land-water contours may bring positive spatial, social and economic effects

Forms of cities have been negotiated with water

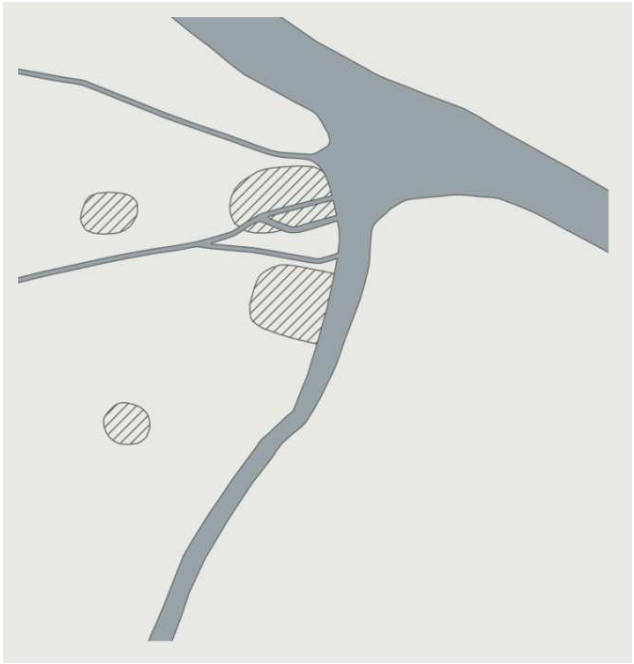


Mexico city in 1628, Juan Gómez de Trasmonte. Source: Museo de la Ciudad de México



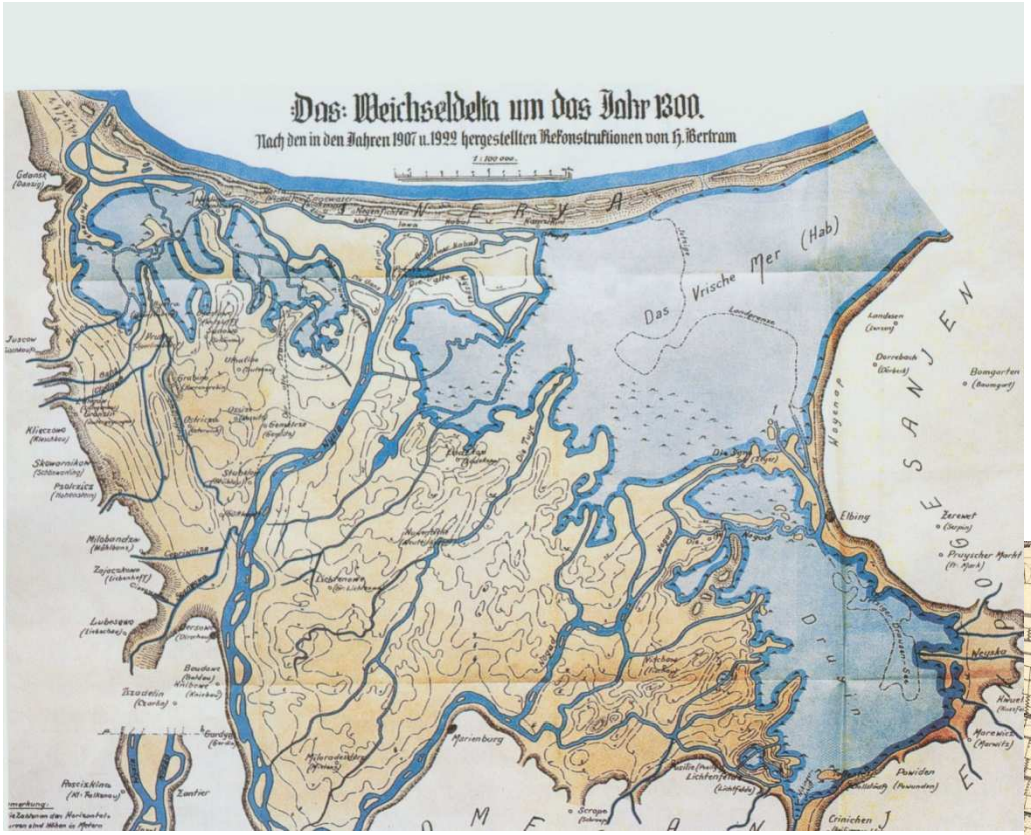
Copenhagen: a) 1728, b) 1800, c) 1849.

Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries’



Gdańsk: a) 11th, b) 12th, c) 18th c.

Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries’

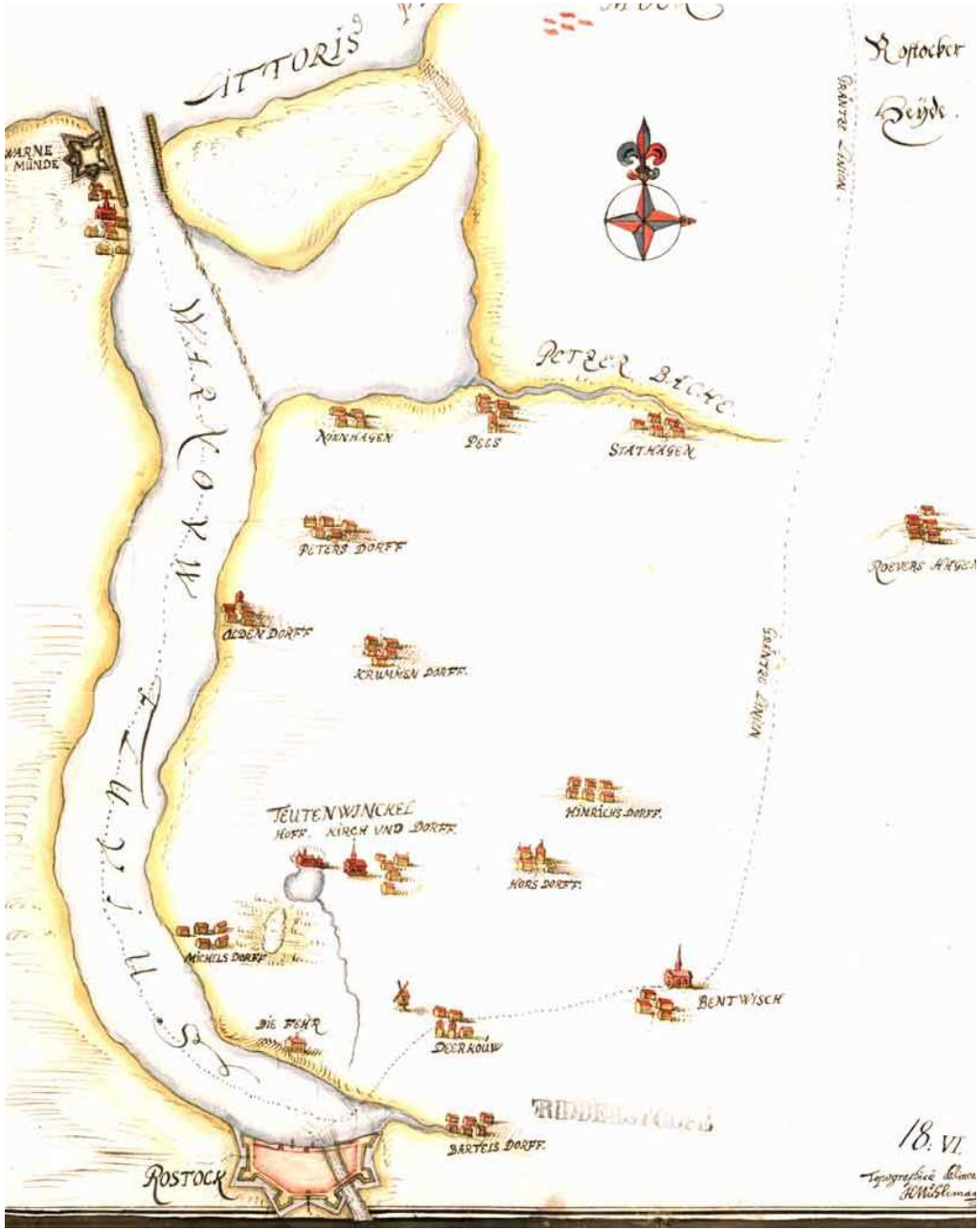


Vitula River Delta, about ad.1300,

Source: H. Bertram, Die physikalische Geschichte des Weichseldeltas, Danzig 1924

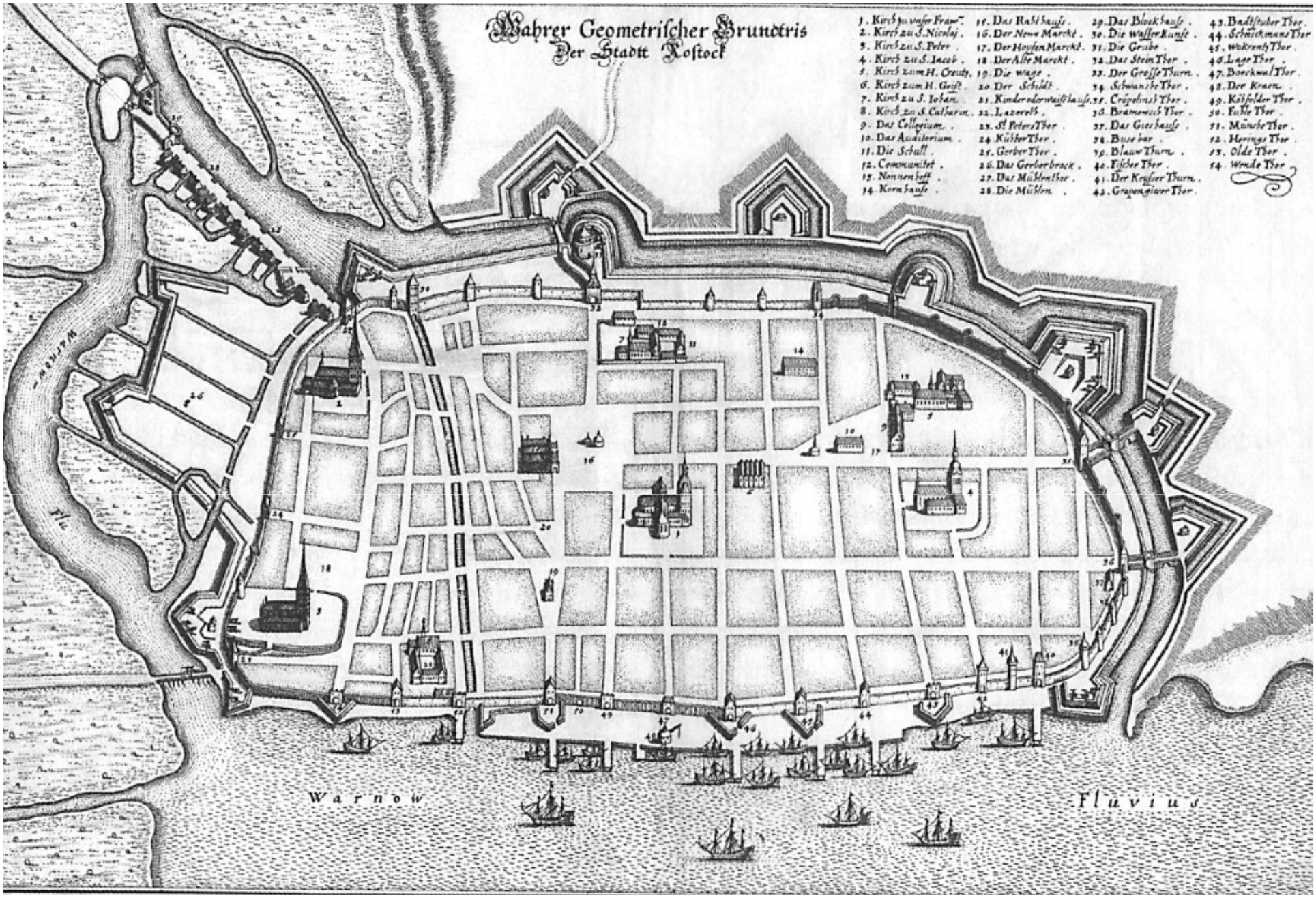
Structure of the polder landscape, 19th c.

Source: H. Bertram, Die physikalische Geschichte des Weichseldeltas, Danzig 1924

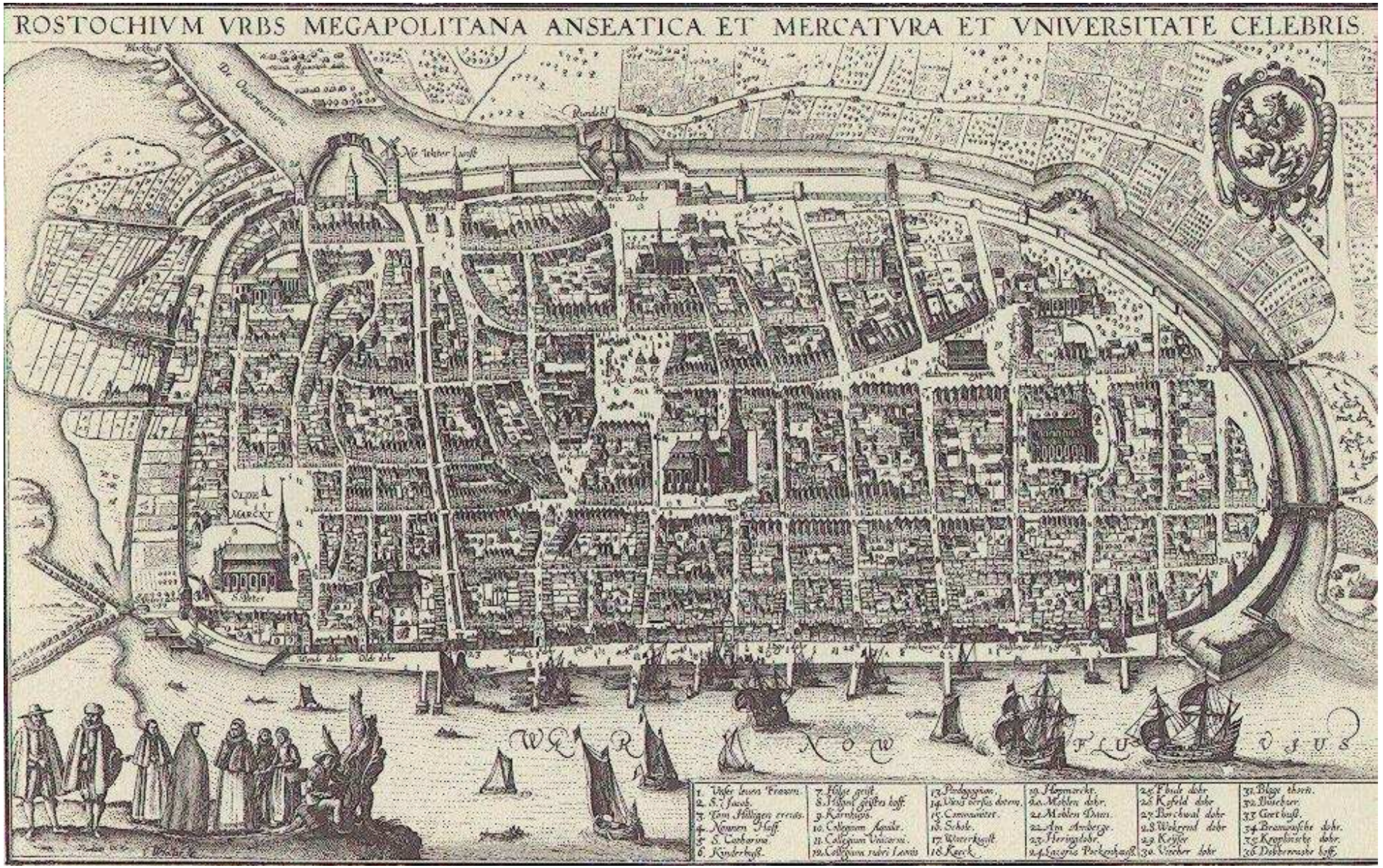


Rostock, 17th c. Re-designing the city-water edge. Source: Schwedisches Reichsarchiv

Rostock during the Thirty Years' War (1619-1649)



Map of Rostock by Caspar Merian, 1653



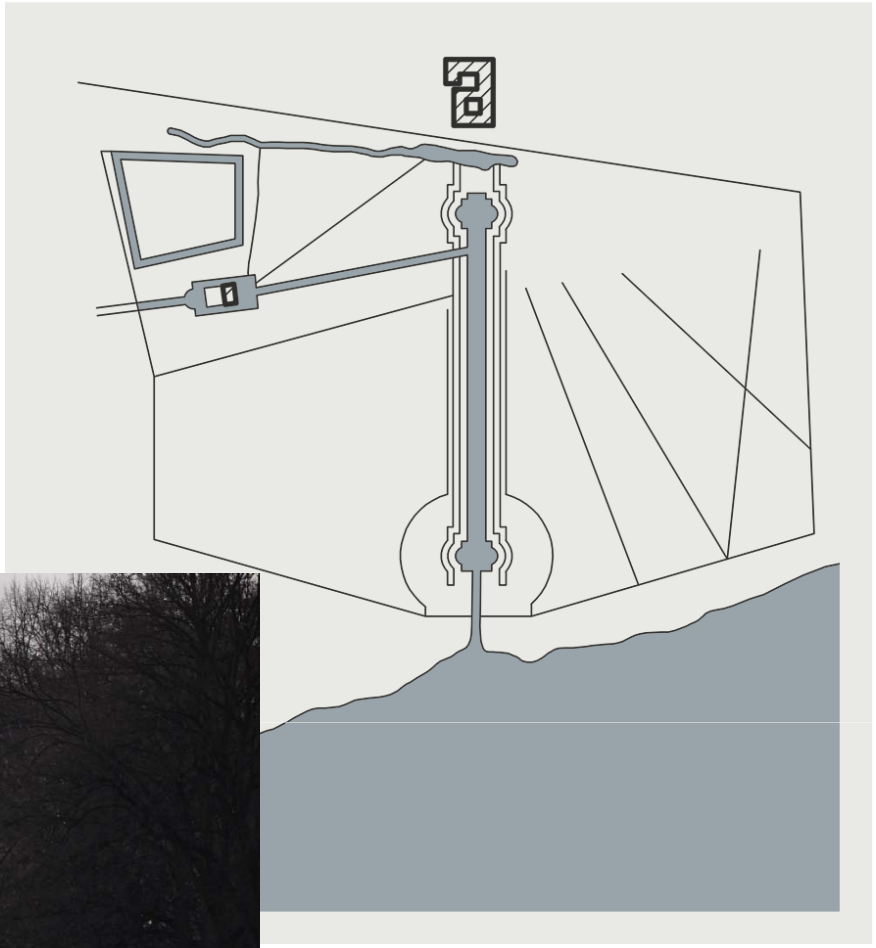
Map of Rostock by Wenzel Hollar, 1683. Source: F. Mohr, G. Stentzel: Rostocker Stadtbilder, Rostock 2005,


Unter-Warnow
Fischer-
bastion
Fischer-
tor
Grapengießertor
Badstübertor
Schnickmanntor
Wokrentertor
Lagertor
Burgwalltor
Koßfeldertor
Weintor
Mönchentor
Gruben- oder
Heringstor
Faules Tor
Wendentor
Blauer Turm
Bussebart
Geetbuß
W/T
W/T
Kaiser-
turm
St. Katharinen-
Kloster
Petritor
St. Petri
W/T
Bramower
Tor
St. Jacobi
St. Marien
Faule Grube
An der Grube
Kröpeliner
Tor
Rathaus
Kütertor
Gerbertor
St. Nicolai
Neues Werk
Kloster z.
Hl. Kreuz
Michaelis-
kloster
St. Johannis-
Kloster
Lagebusch-
turm
W/T
Rondell
Schwaansches
Tor
Steintor
Kuhtor
Kuhturm
Mühlentor
Neue Wasserkunst
Zwinger
Ober-Warnow

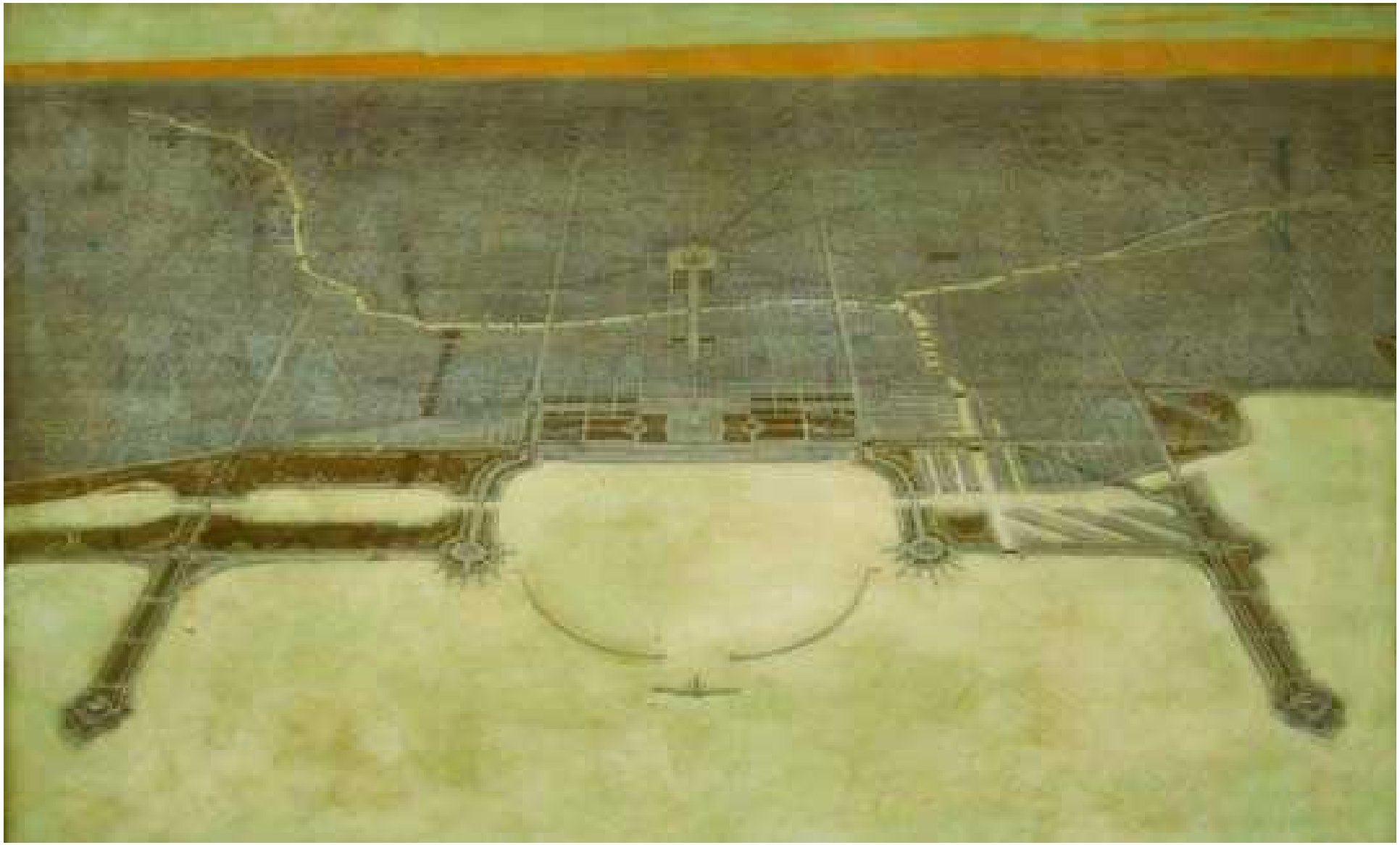
Discovering aesthetic qualities of water

Piazza Navona, Flooded, G. P. Pannini, 1756. Urban spectacles on flooded squares

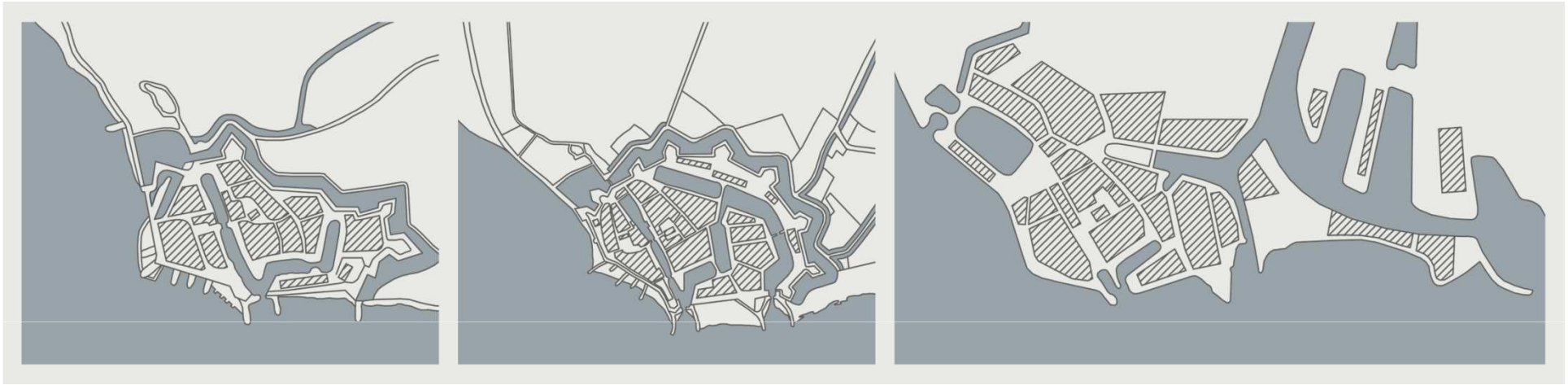
Ujazd Chateau in Warsaw with canal built in 1730



Chicago, Columbian Exibition, 1893. New canals and water reservoirs



Plan for Chicago, IL, USA, Daniel Burnham and Edward H. Bennett, 1909
Source: The Commercial Club, Chicago MCMIX 1909

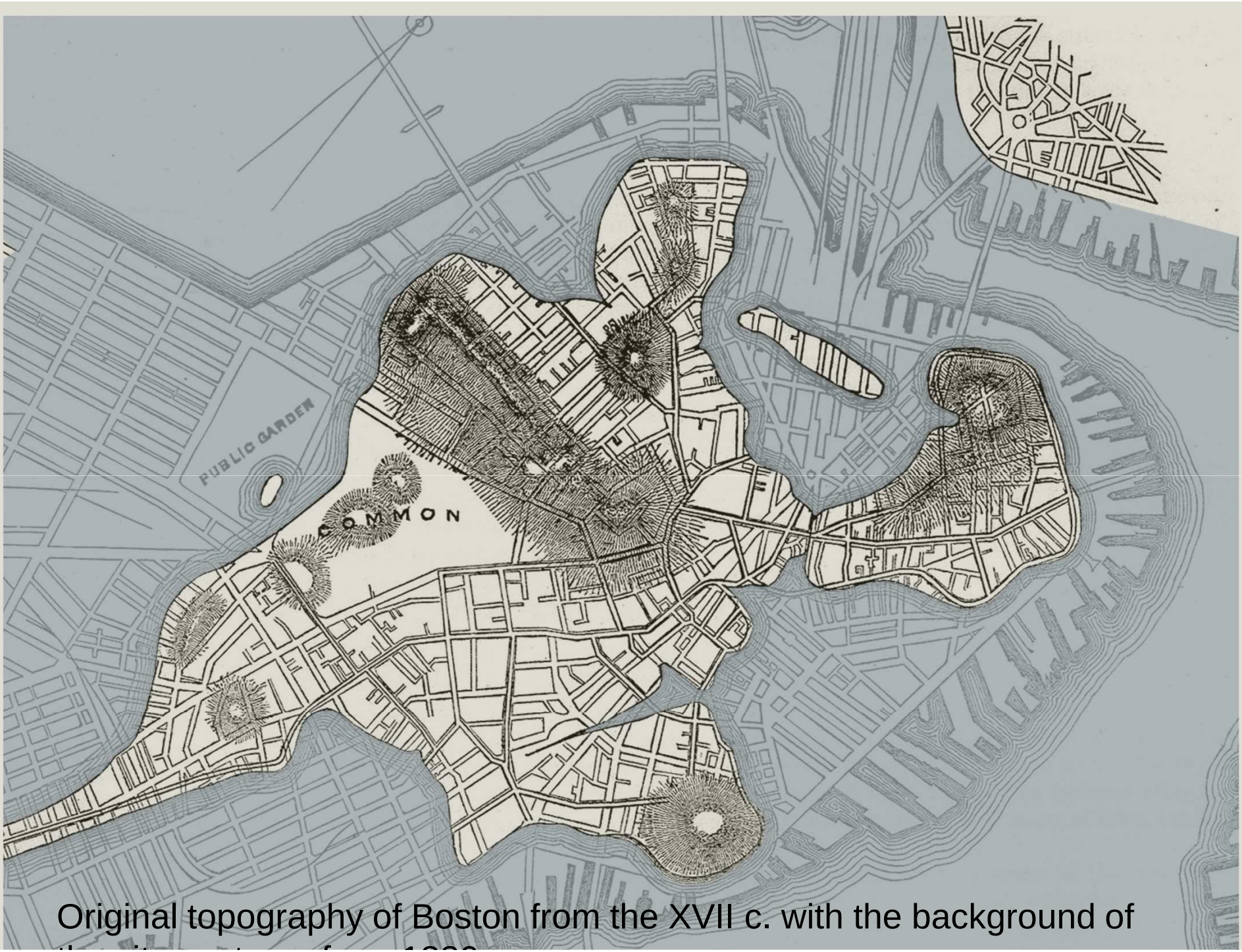


Vlissingen: a) 1728, b) 1800, c) 1849

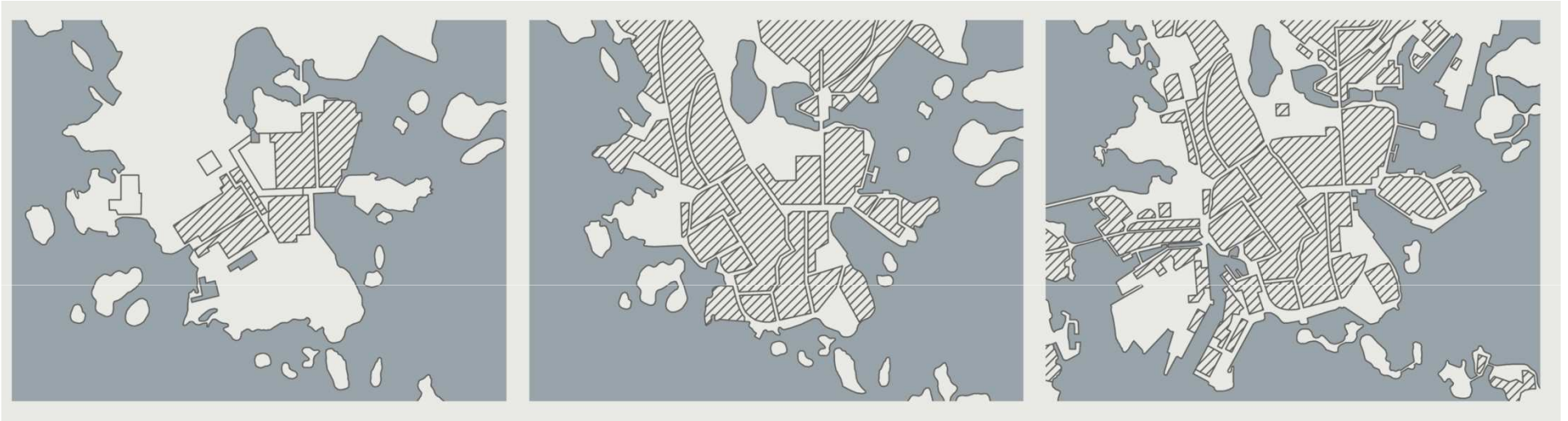
Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries’

Genova: a) 1830, b) 1910, c) 1960.

Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries’



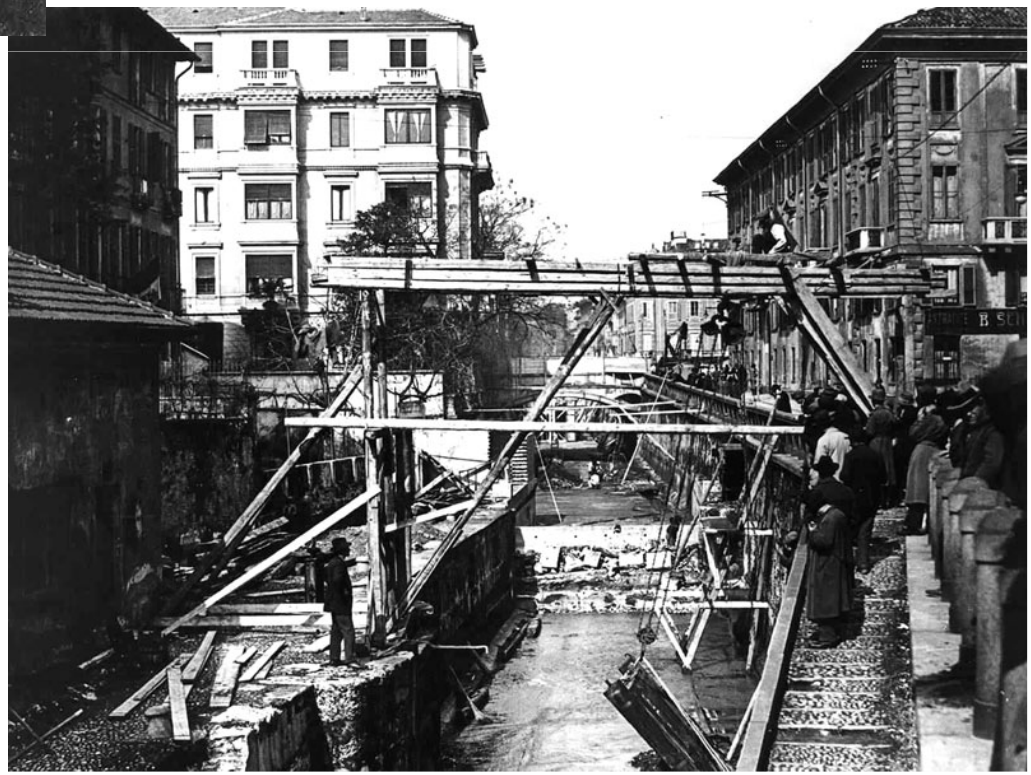
Original topography of Boston from the XVII c. with the background of



Helsinki: a) 1840, b) 1900, c) the present city

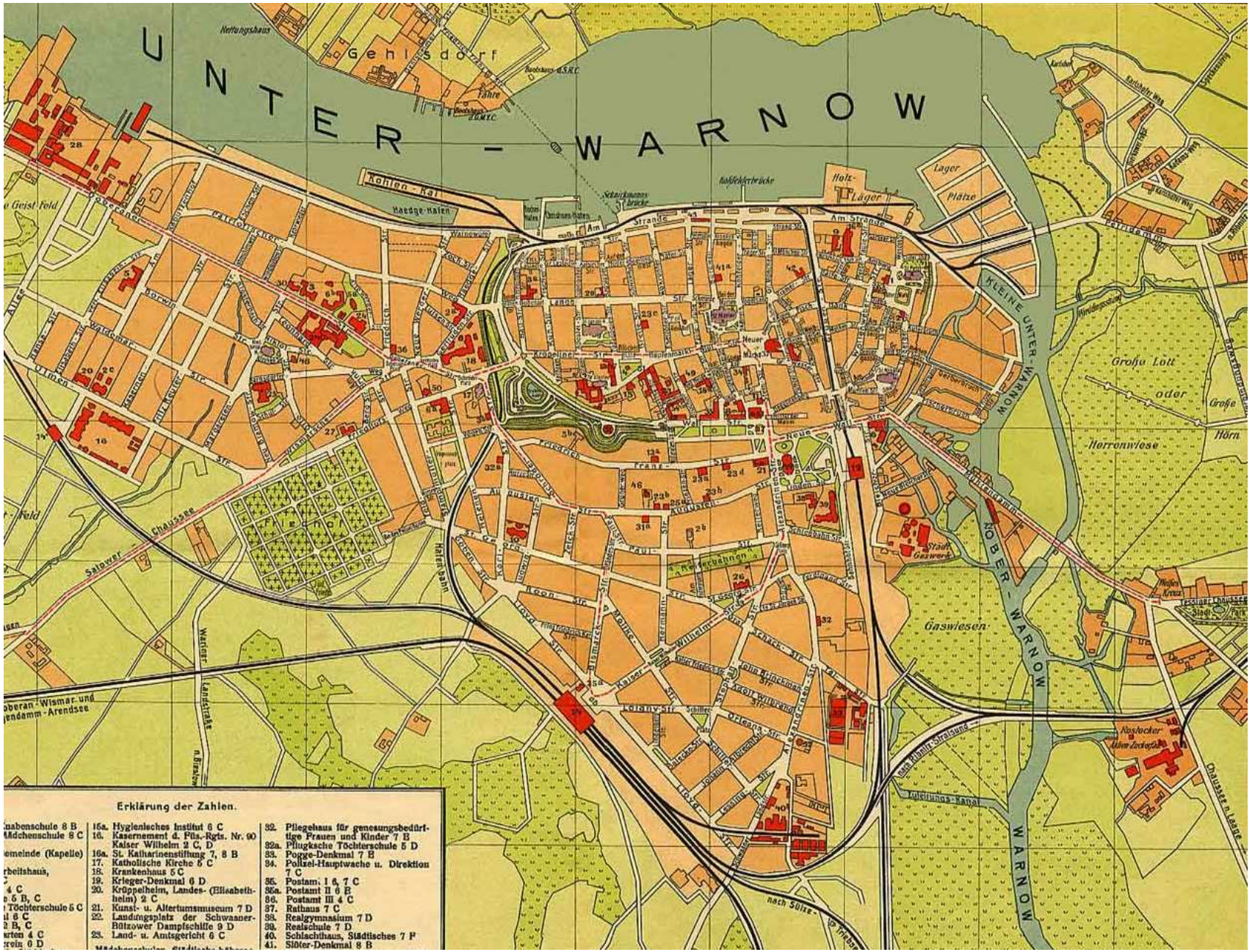
Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries’

Milano:
a) 1900, a bridge over not existing today canal del Vallone,

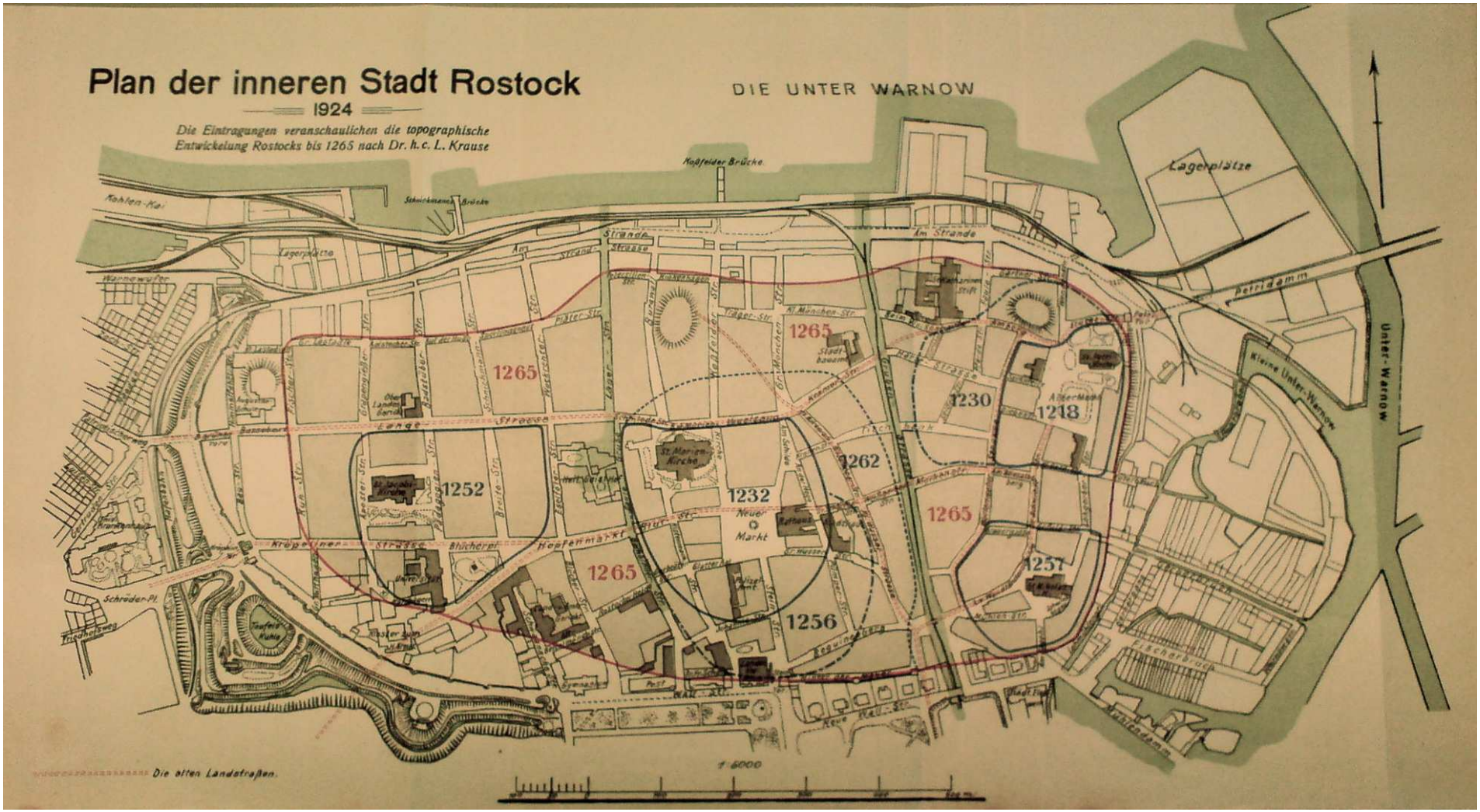


b) 1930, covering one of the canals of Navigli system

Source: Civico Archivio Fotografico Milano



Rostock, 1918

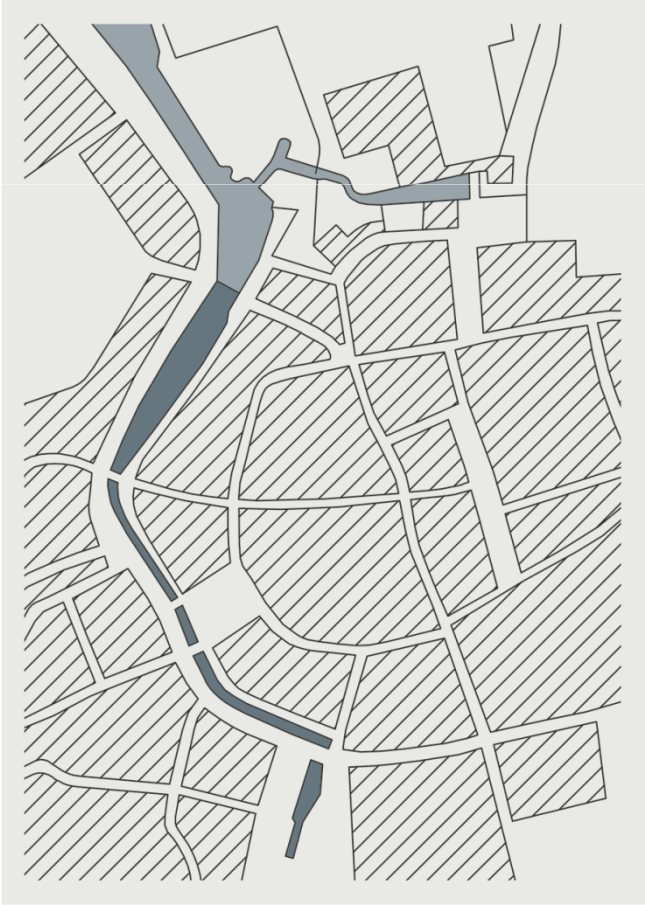


Rostock, 1924

„Clean urbanism”

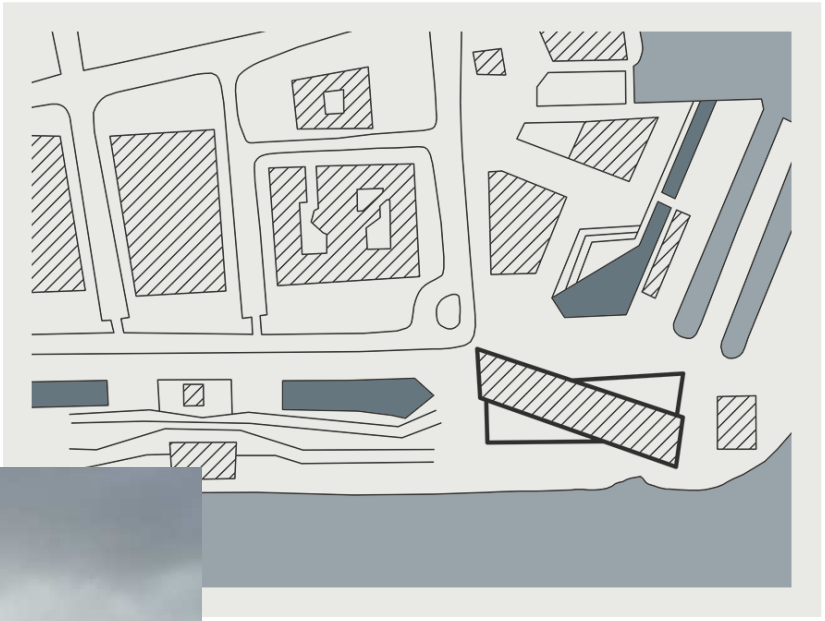
Rostock was lucky not to invest too much in those years…

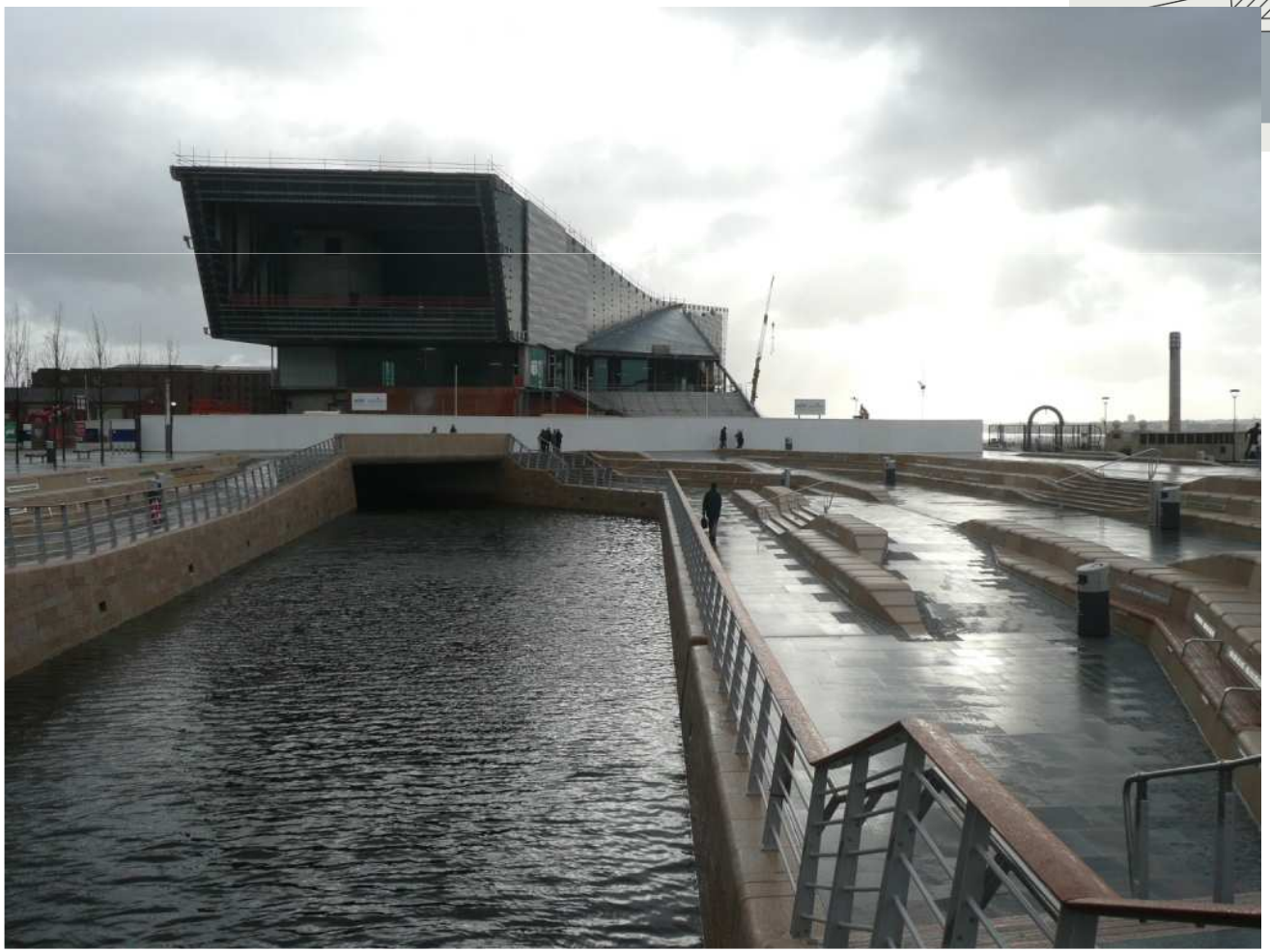
„”Water in Historic City Centres” – Interreg Program



„When the water flow, then the life will flow too”

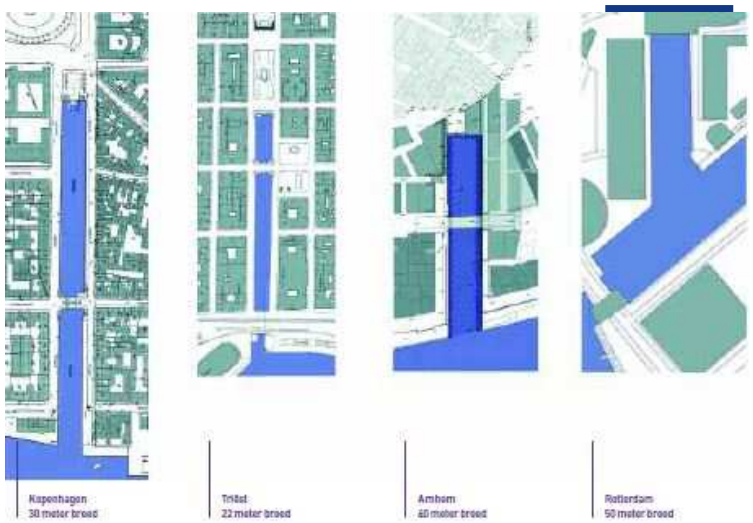
Reconstruction of old canals in Breda (2006) and Ghent (2009)



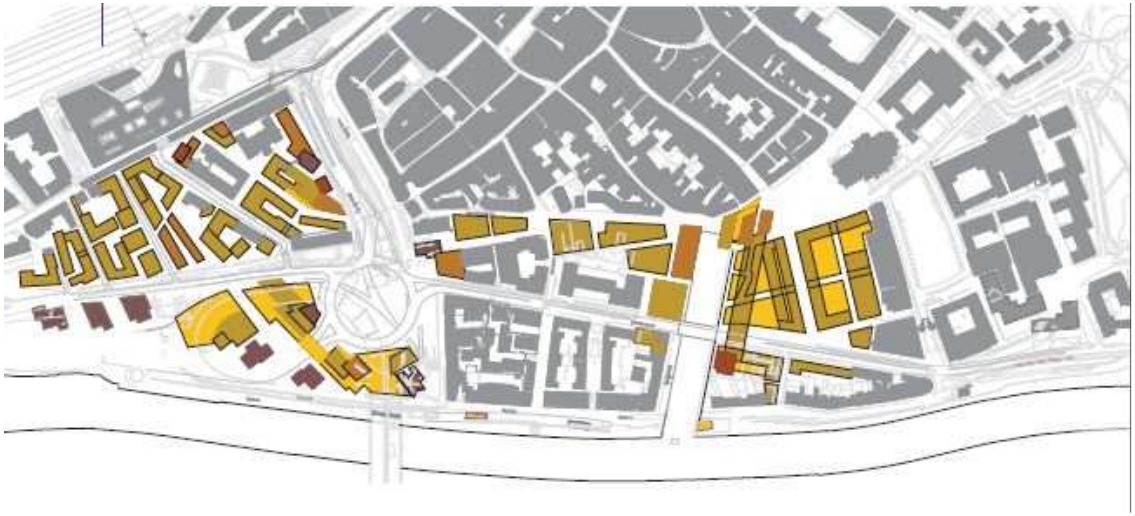


Liverpool Museum with new canal built in 2007.

Fot. L. Nyka



Arnhem
re-connecting the city
with water
Source: City of Arnhem



Tjianin Delta. Architekten Cie, 2013

Source: courtesy of Architekten Cie to include in the book L. Nyka: ‘Architecture and Water – Crossing the boudaries’

Tjianin Delta. Architekten Cie, 2013

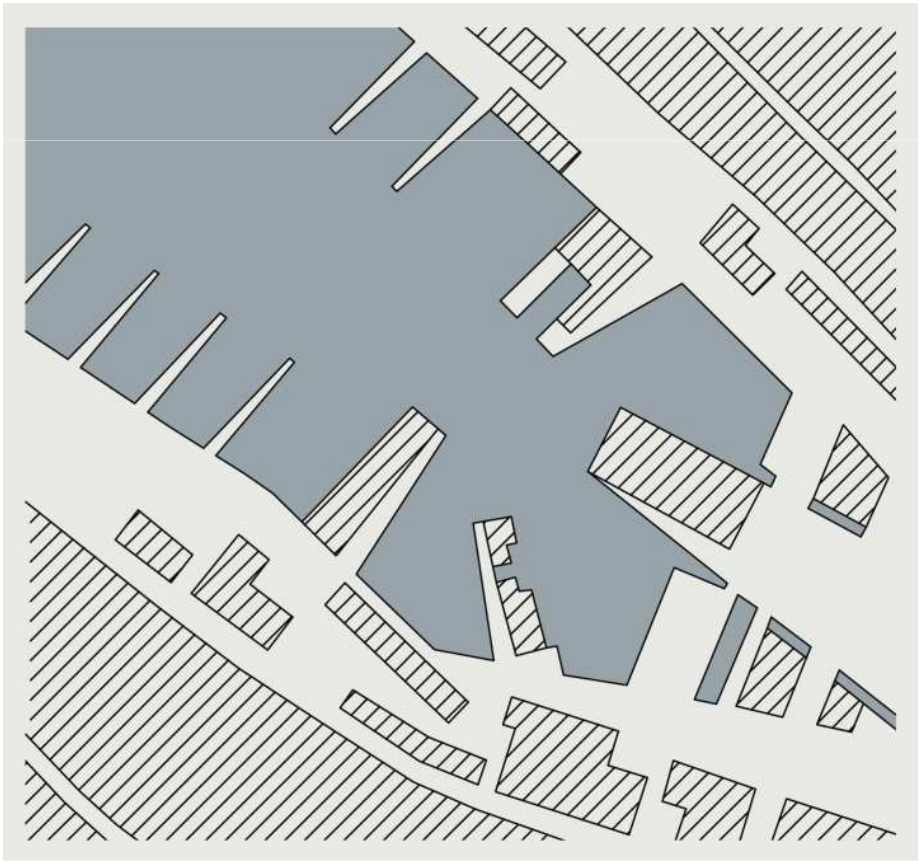
Source: courtesy of Architekten Cie to include in the book L. Nyka: ‘Architecture and Water – Crossing the boudaries’

Marina City, Espoo, Finland, competition entries, 2012

Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries’

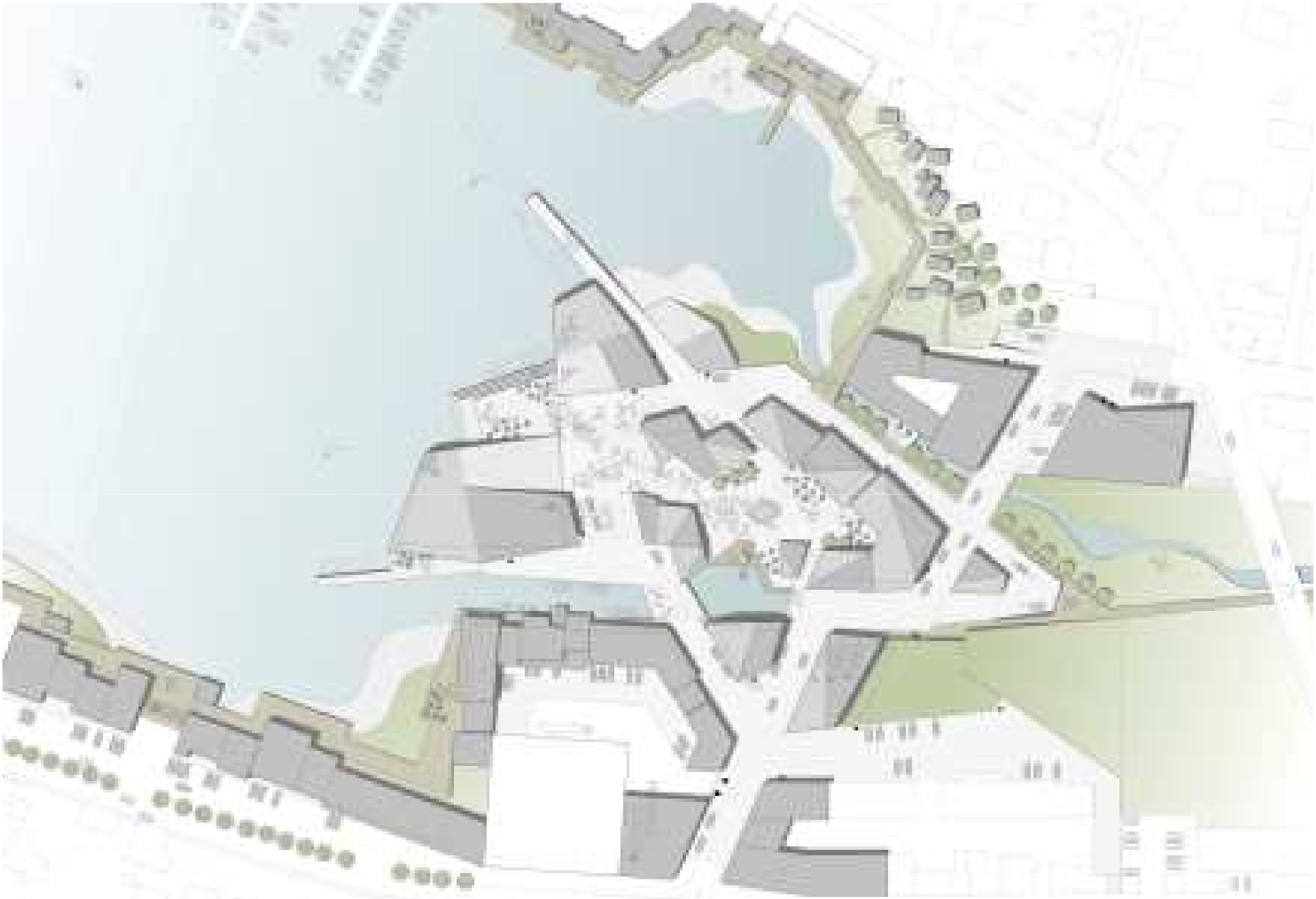
Helsingborg, Oresund Malmo, Sweden. T*he Creative City,* ADEPT Architects i Schonherr Landscape

Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries



Competition entries for Klaksvik City Center, Faroe Islands

Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries

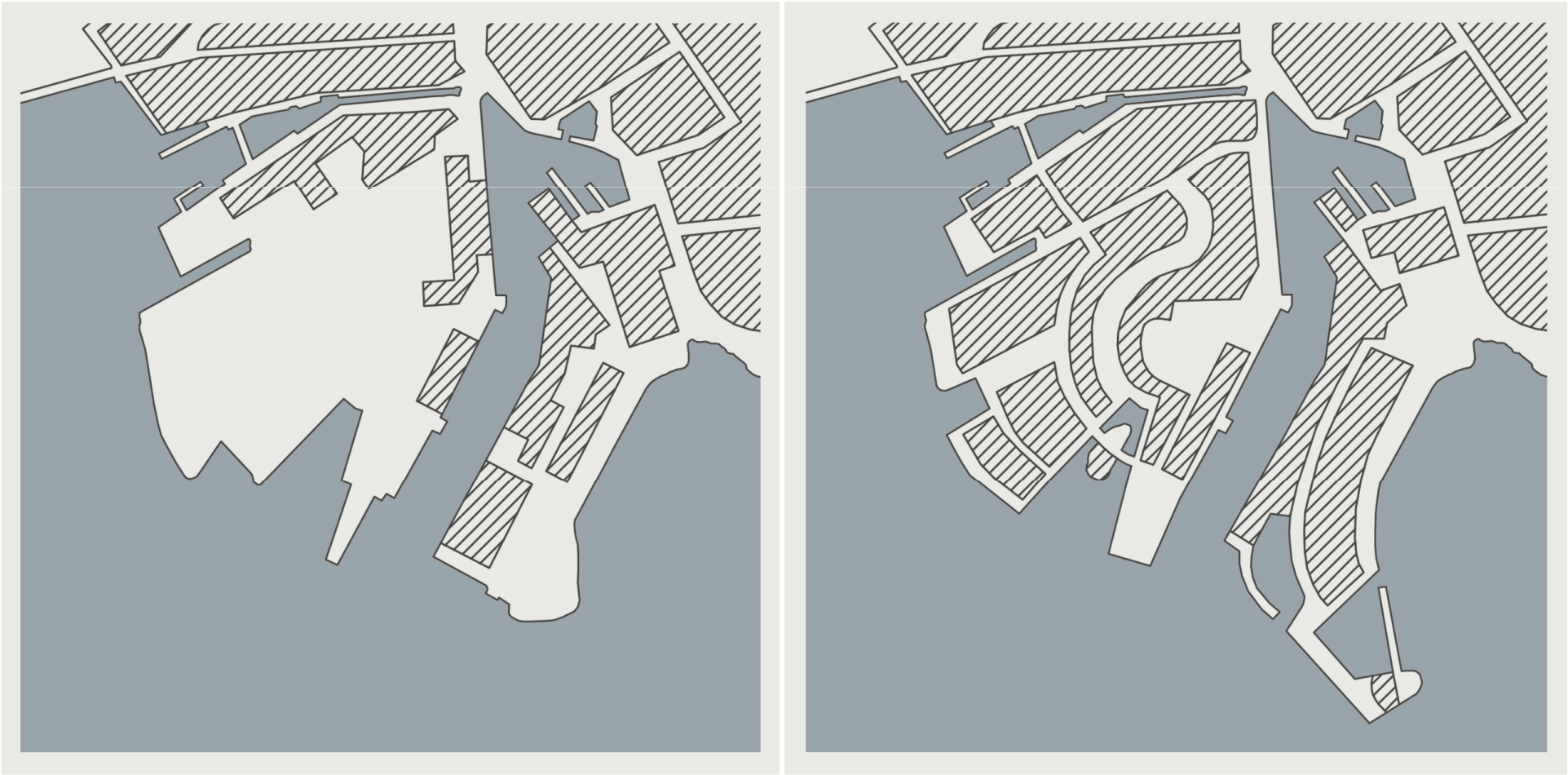


Klaksvik City Center, 1 st Prize: Henning Larsen Architects

Source: courtesy of Henning Larsen Architects to include in the book L. Nyka: ‘Architecture and Water – Crossing the boudaries’

Lansisatama - West Harbour, Helsinki

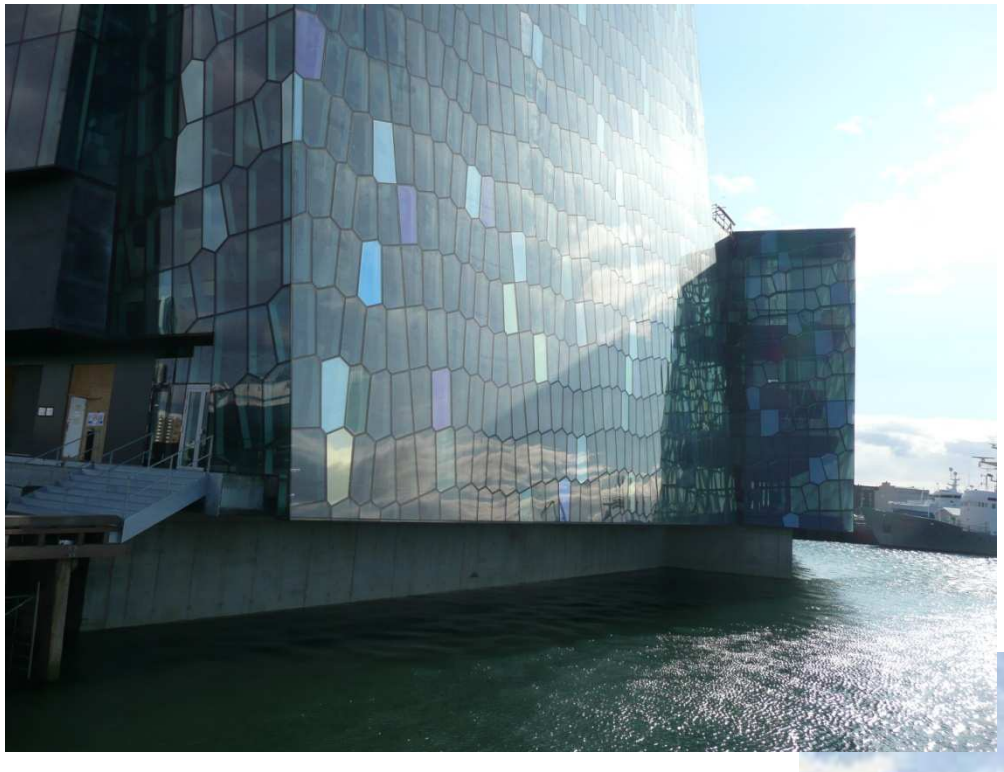
Source: L. Nyka ‘Architecture and Water – Crossing the Boundaries



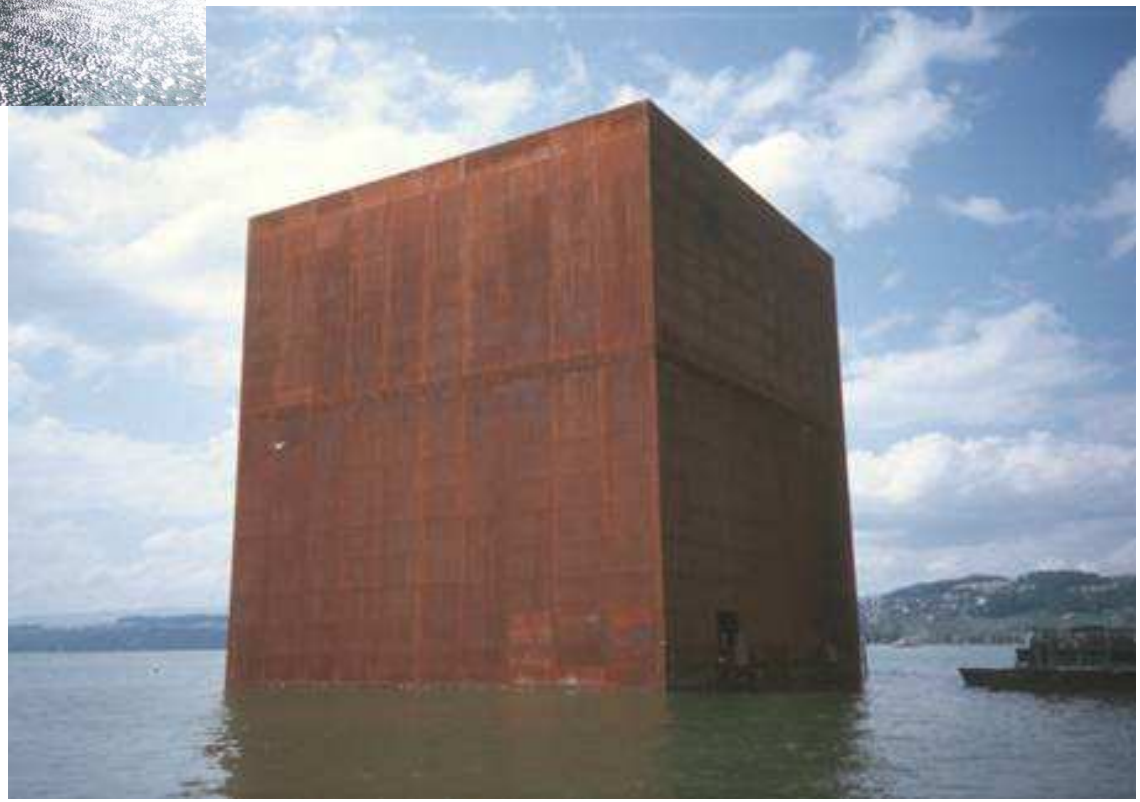
Nordhavn, Copenhagen: a) present situation; b) new outline in the winning entry: Urban Competition for Copenhague's Nordhavn, 2009, COBE, Sleth, Rambøll

Floating houses in Amsterdam. Fot. L. Nyka

Floating Pavilions for Gdansk
Master diploma project: B. Perz. Supervisor: L. Nyka. Gdansk University of Technology (GUT)



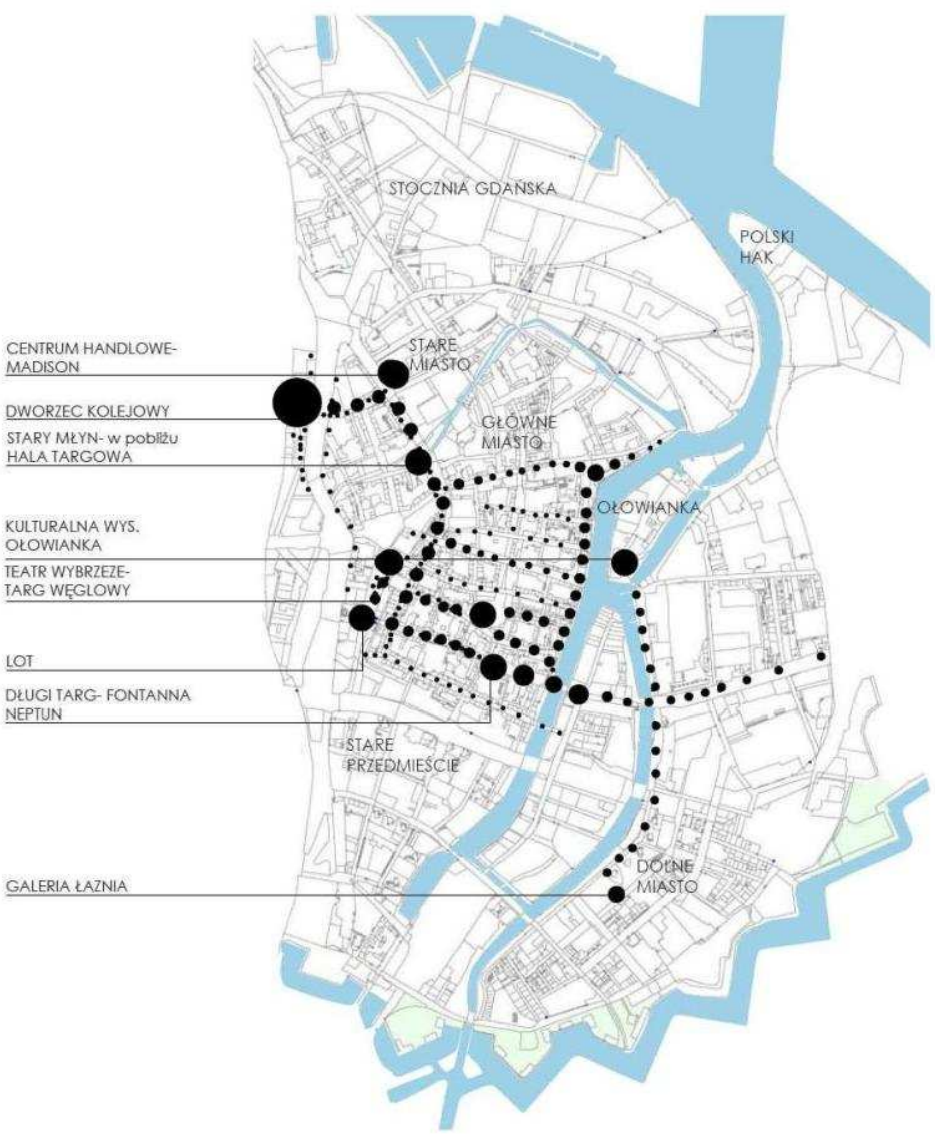
Harpa. Reykjavik, Oliafur Eliasson, Henning Larsen Architects. Fot. L. Nyka



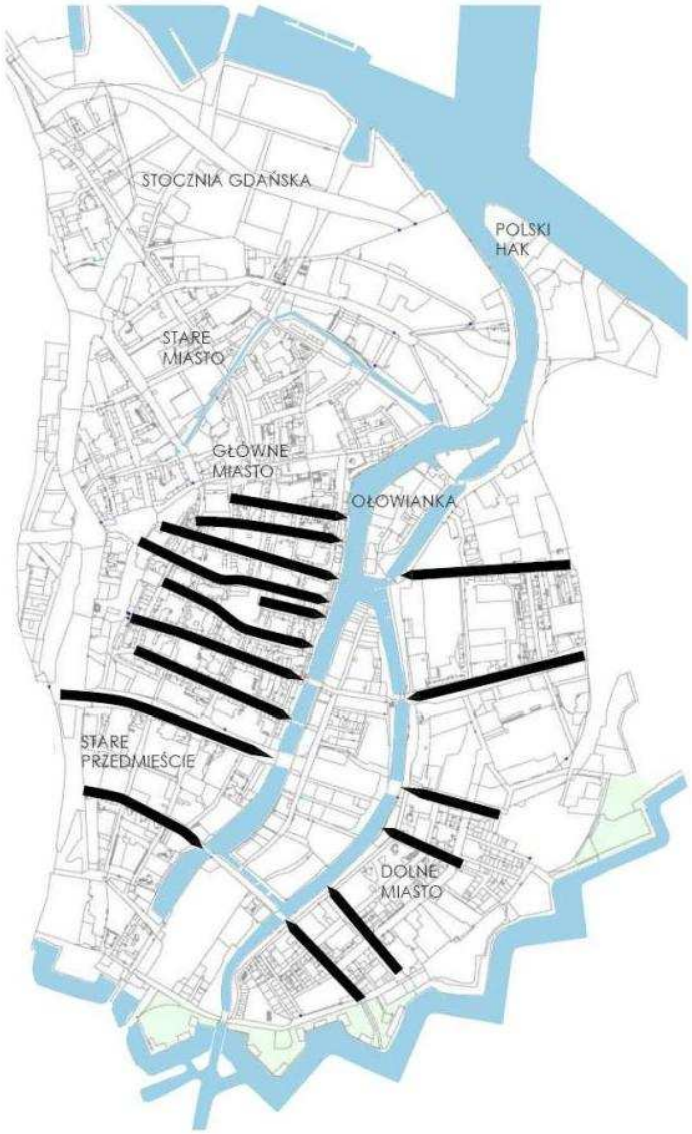
Monolith, Murtel, Jean Nouvel. Fot. L. Nyka

Floating Gardens, Amsterdam, studio Noach, Anne Holtrop

Source: courtesy of Anne Holtrop to include in the book L. Nyka: ‘Architecture and Water – Crossing the boudaries’

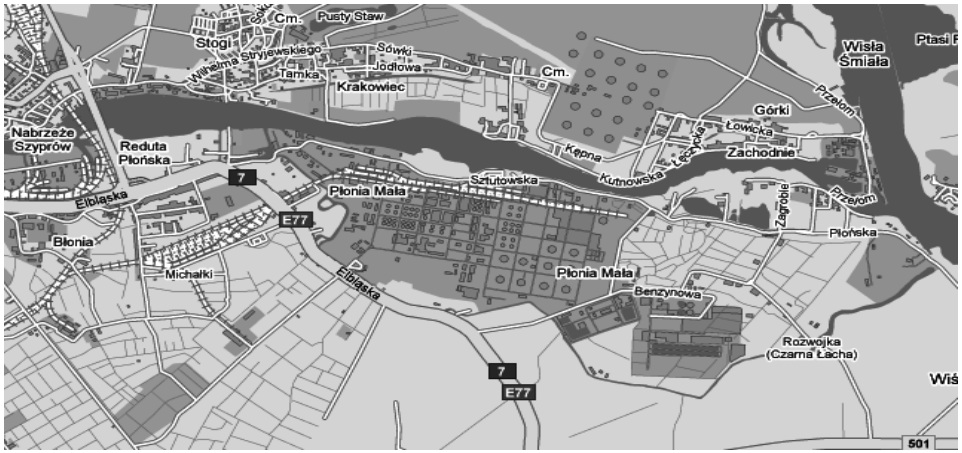


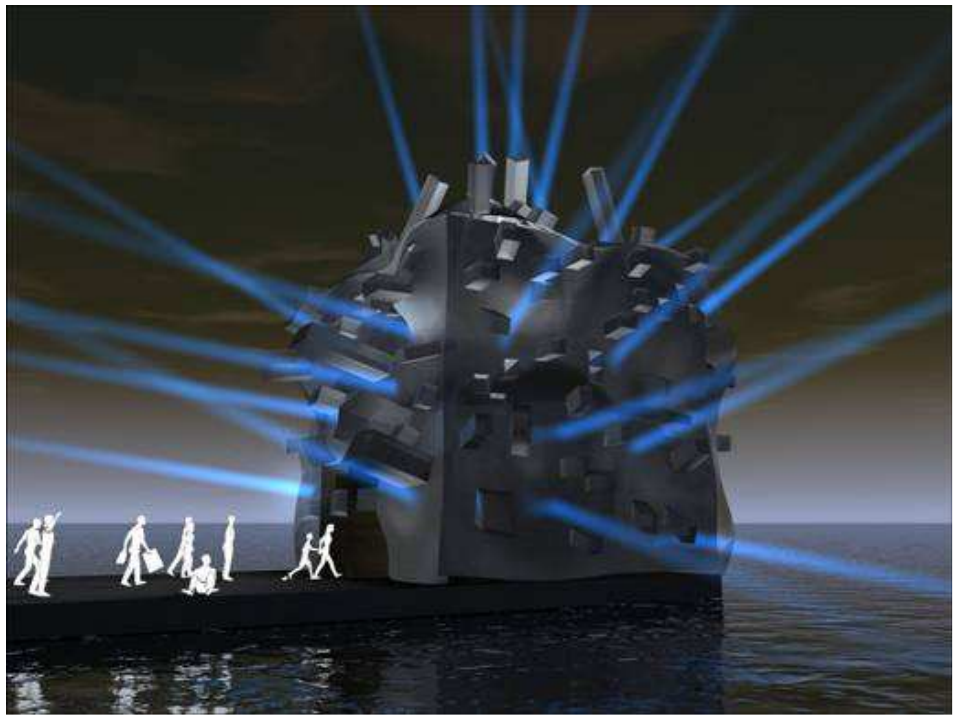
MAIN PEDESTRIAN
MOVEMENTS IN THE CITY CENTER



STREET GRID

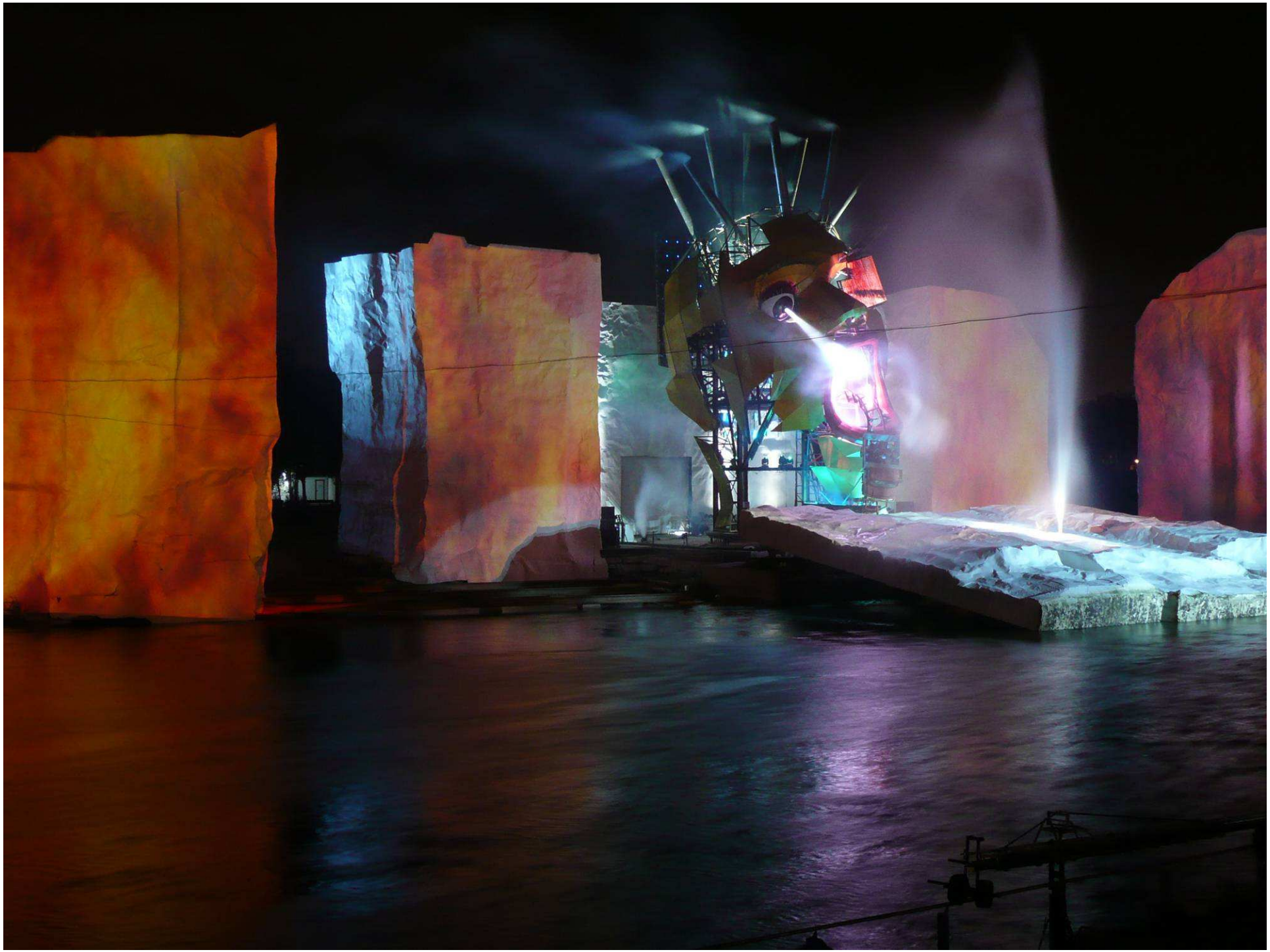
Analysis for location points of the Floating Gallery in Gdańsk
Master diploma project: K. Bedra. Supervisor: L. Nyka. GUT

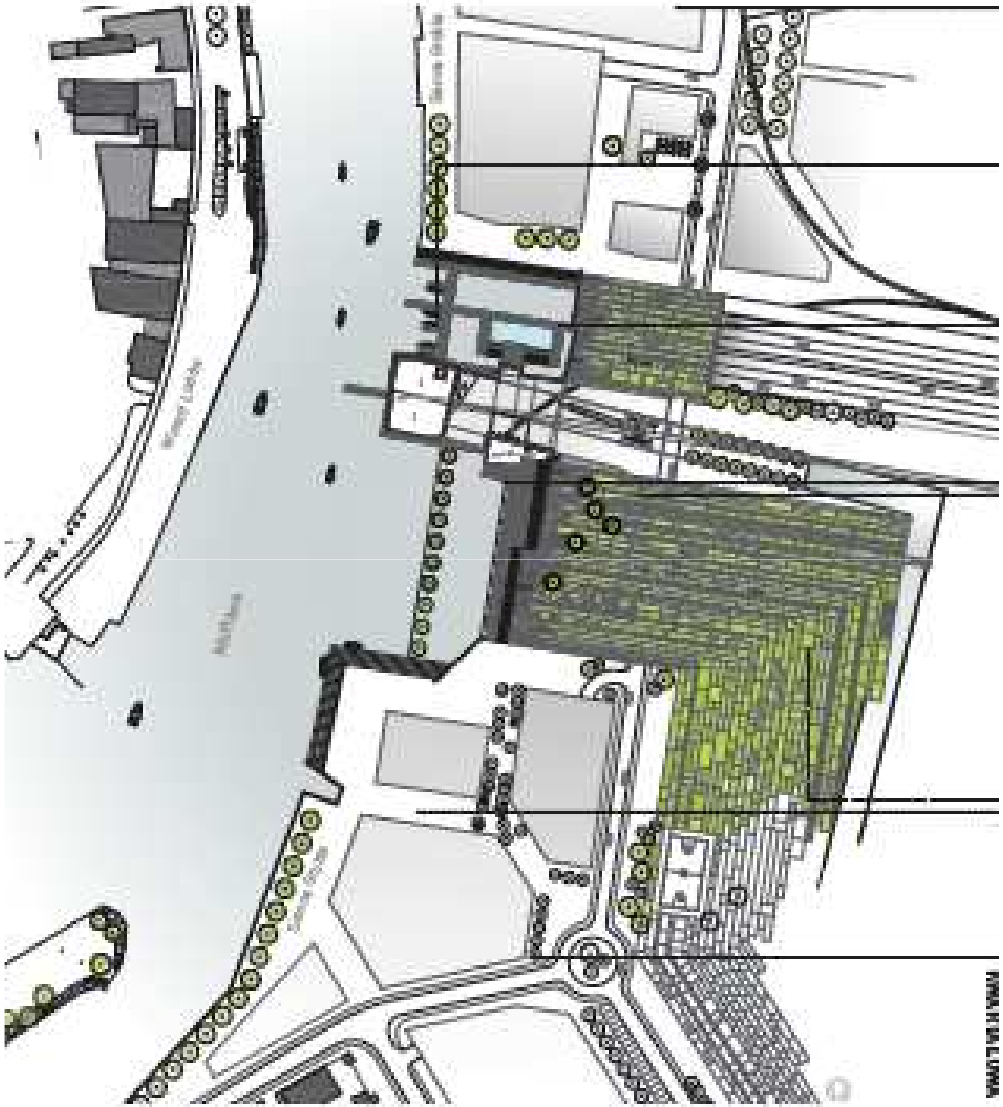




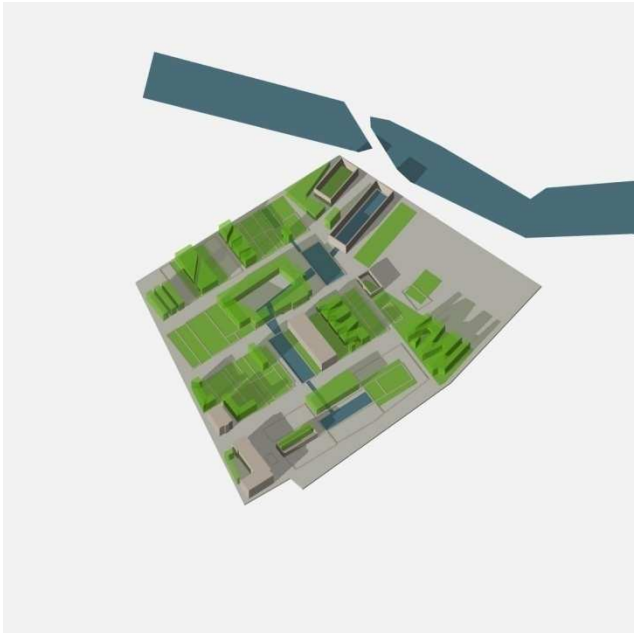
‘Floating Gallery’ in Gdańsk
Above: K. Bedra, supervisor: L. Nyka

hree Theatres”: floating theatre in Gdańsk
aster diploma project: E. Morawska. Supervisor: L. Nyka. GUT





„Three Theatres”
Master diploma project: E. Morawska. Supervisor: L. Nyka. GUT



„Bridging the City” EU Project for Gdańsk

E. B. Khemais, E. Carreira, M. Kaufman, I. Kittler, Ch. Malheiros, K. Piekara Project coordinator: L. Nyka. GUT

„Bridging the City” EU Project for Gdańsk

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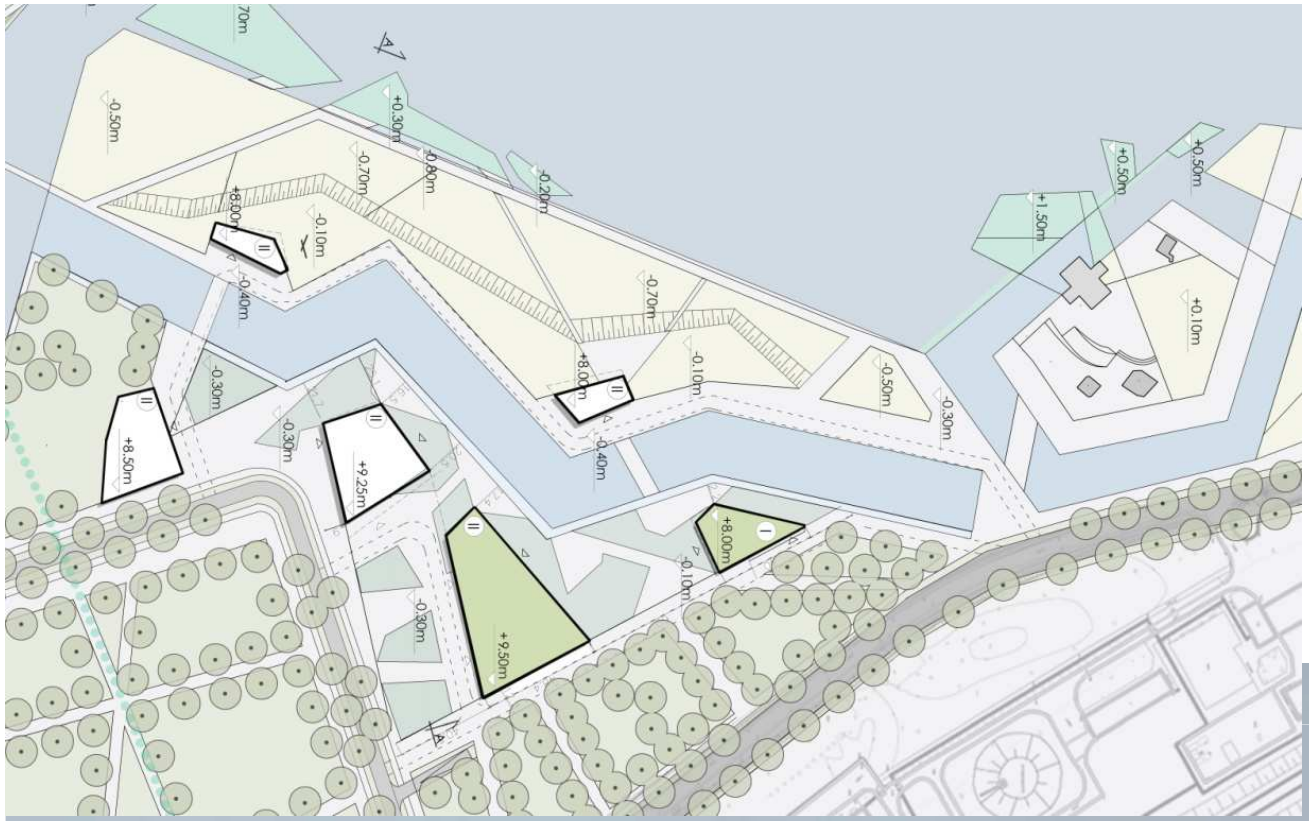
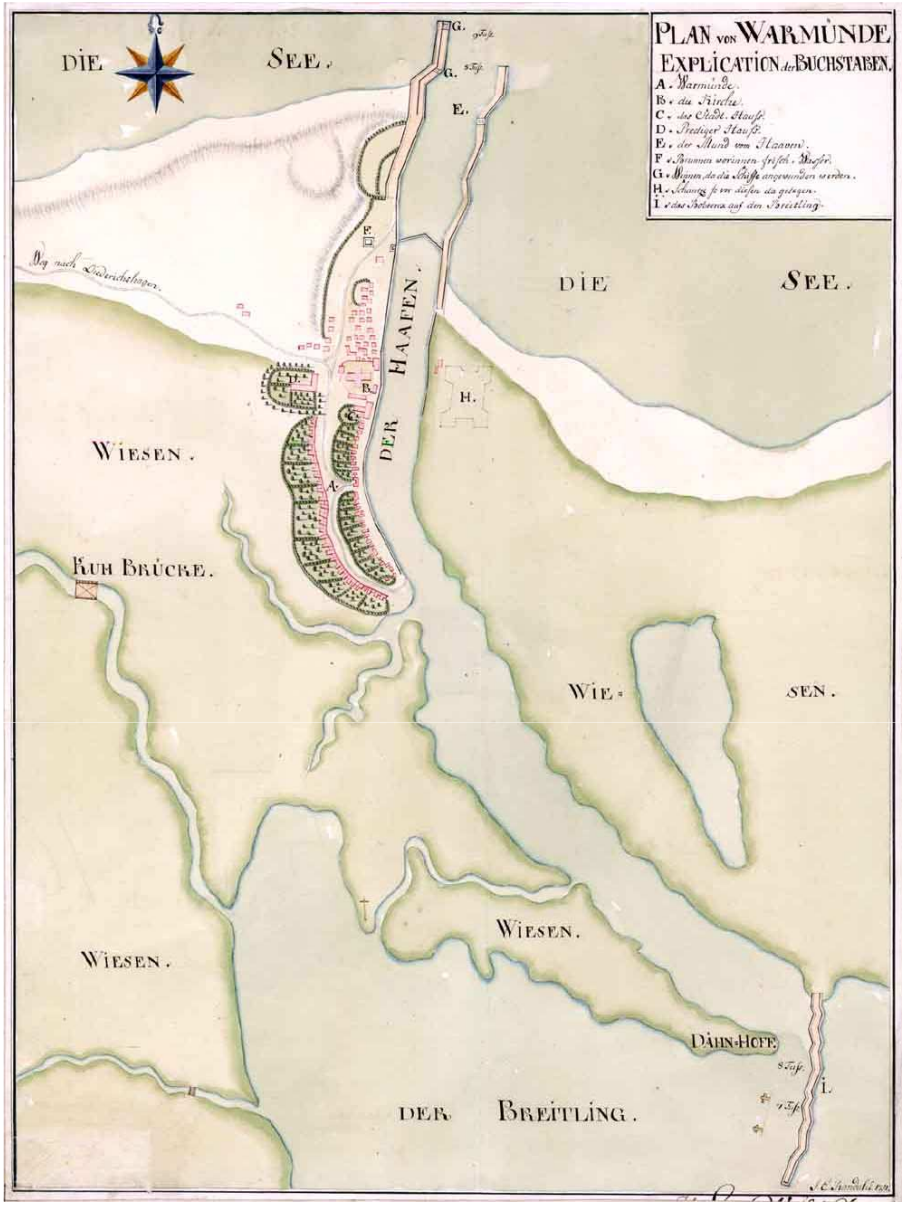


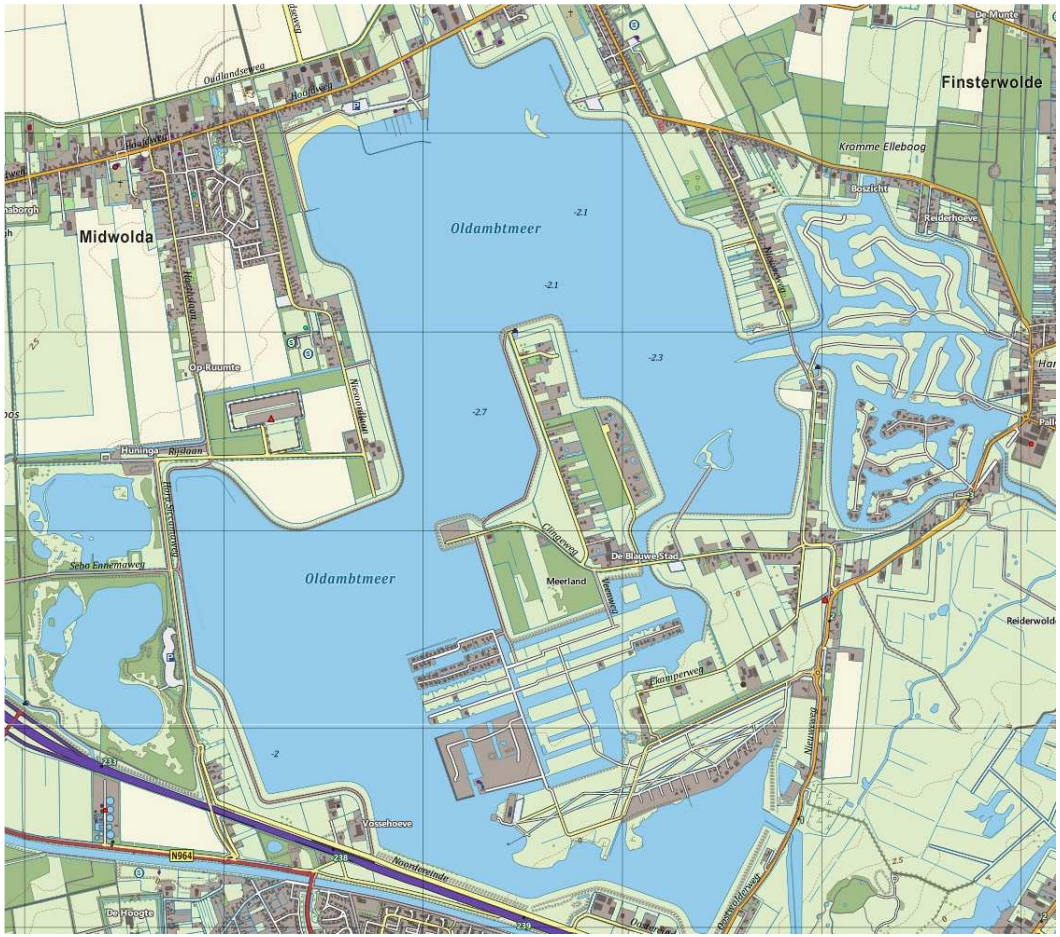
Mediating the line between the land and water

Media Art Institute near Wisłoujscie Fortess in Gdansk,
Master diploma project: A. Popławska. Supervisor: L. Nyka, GUT



Rostock, plan de Warnemunde, 1751

Rostock, plan de Warnemunde, 1877



De Blauwe Stad, Groningen, Jan-Willem van Aalst.

De Blauwe Stad. Fot. L. Nyka

1. **The line of land-water was not stable in the past and it changes today**

2. **„Designing with water” may bring architectural, economic and societal benefits**

3. **Modifications of land-water – for many centuries was a pre-condition for the survival of cities.**

4. **Today this modification is an important factor contributing to the competitiveness of cities**

Nature – Culture – Science: toward creative and water resilient cities