

A PROJECT OF NON RESISTANCE

Venice 21<sup>st</sup> March 2100

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P5

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Motivation

Problematization

Deconstruction

Reconstruction



Mestre

Cavallino

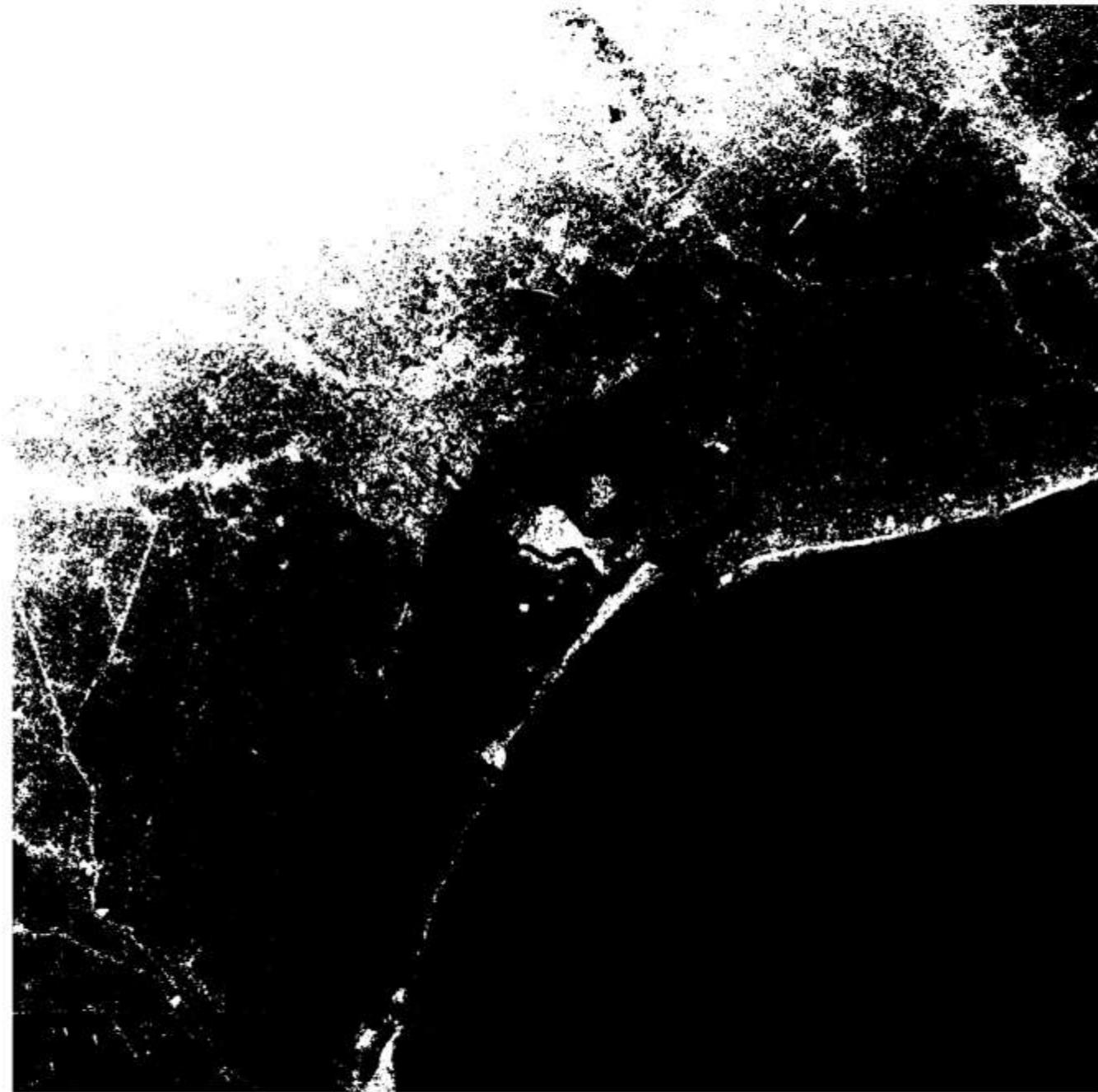
Giudecca

## Sense of displacement

*“When a family sees the neighbourhood around it changing dramatically, when their friends are leaving the neighbourhood, when the stores they patronise are liquidating and new stores for other clientele are taking their places, and when changes in public facilities, in transportation patterns, and in support services all clearly are making the area less and less livable, then the pressure of displacement already is severe. Its actuality is only a matter of time. Families living under these circumstances may move as soon as they can, rather than wait for the inevitable; nonetheless they are displaced.”*

- Marcuse, P. (1985). Gentrification, abandonment, and displacement

Climate crisis - Sea level rise



*IPCC 2021, SSP5-8.5 // +1m RSL // -60cm Subsidence // +5° C*

A place to run to



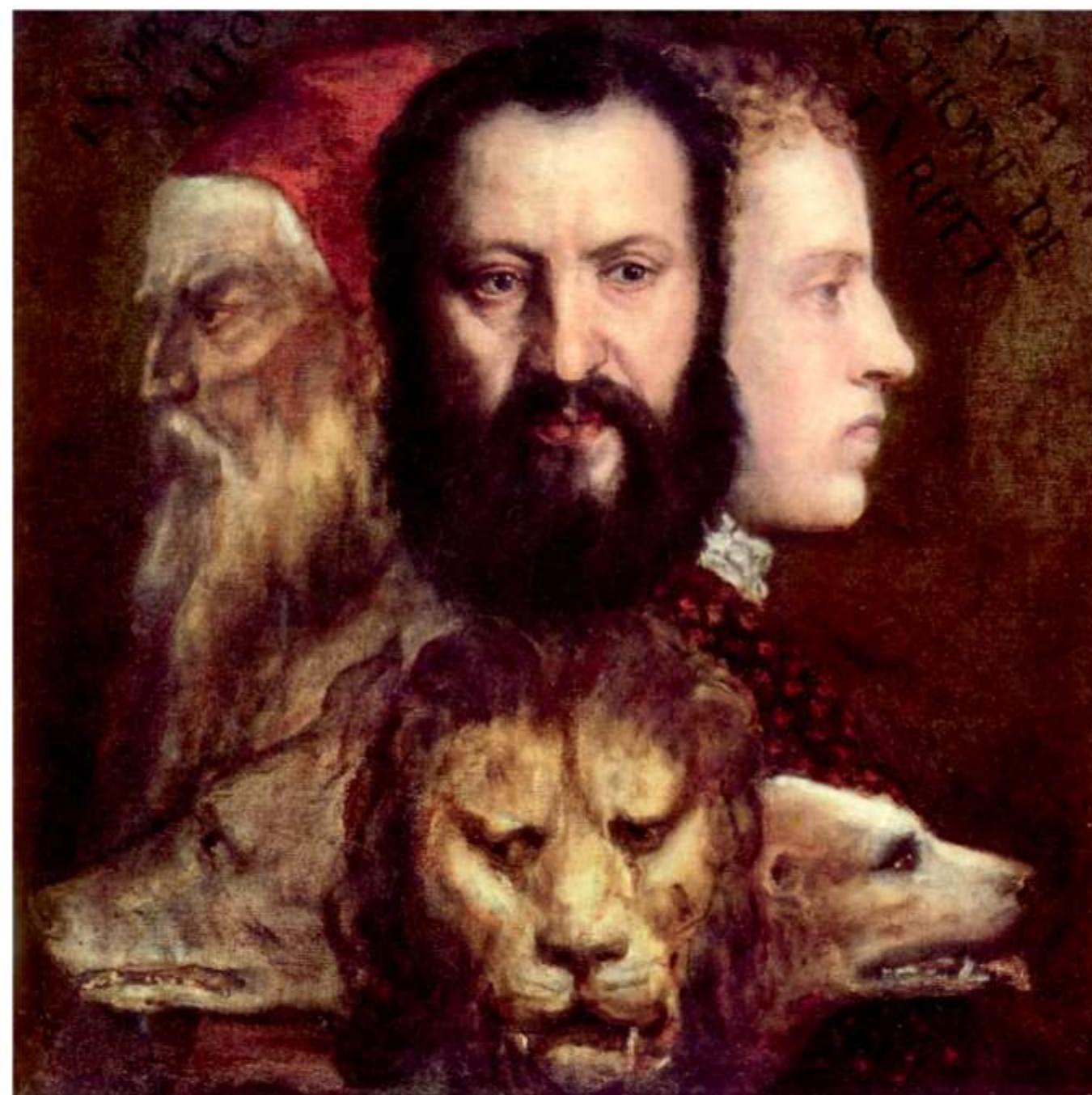
*Torcello, first settlement in the Venetian lagoon*

A place to run from



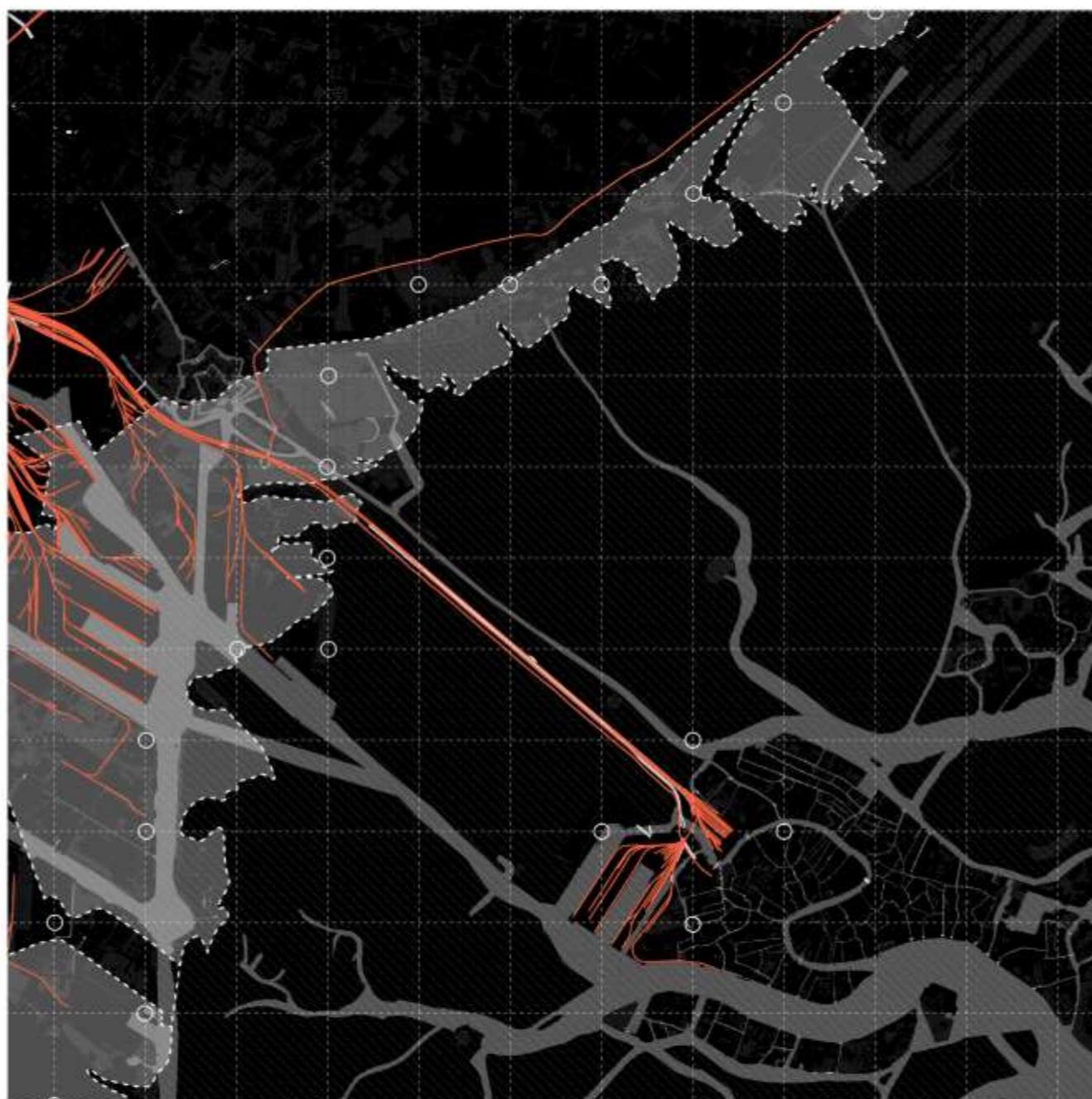


Manfredo Tafuri - Allegory of Prudence



From: Tafuri, M. (1994). *La dignità dell'attimo - trascrizione multimediale di Le forme del tempo Venezia e la modernità*. publisher not identified. Tiziano Vecellio, *Allegoria della Prudenza*, 1565, oil on canvas, London, National Gallery

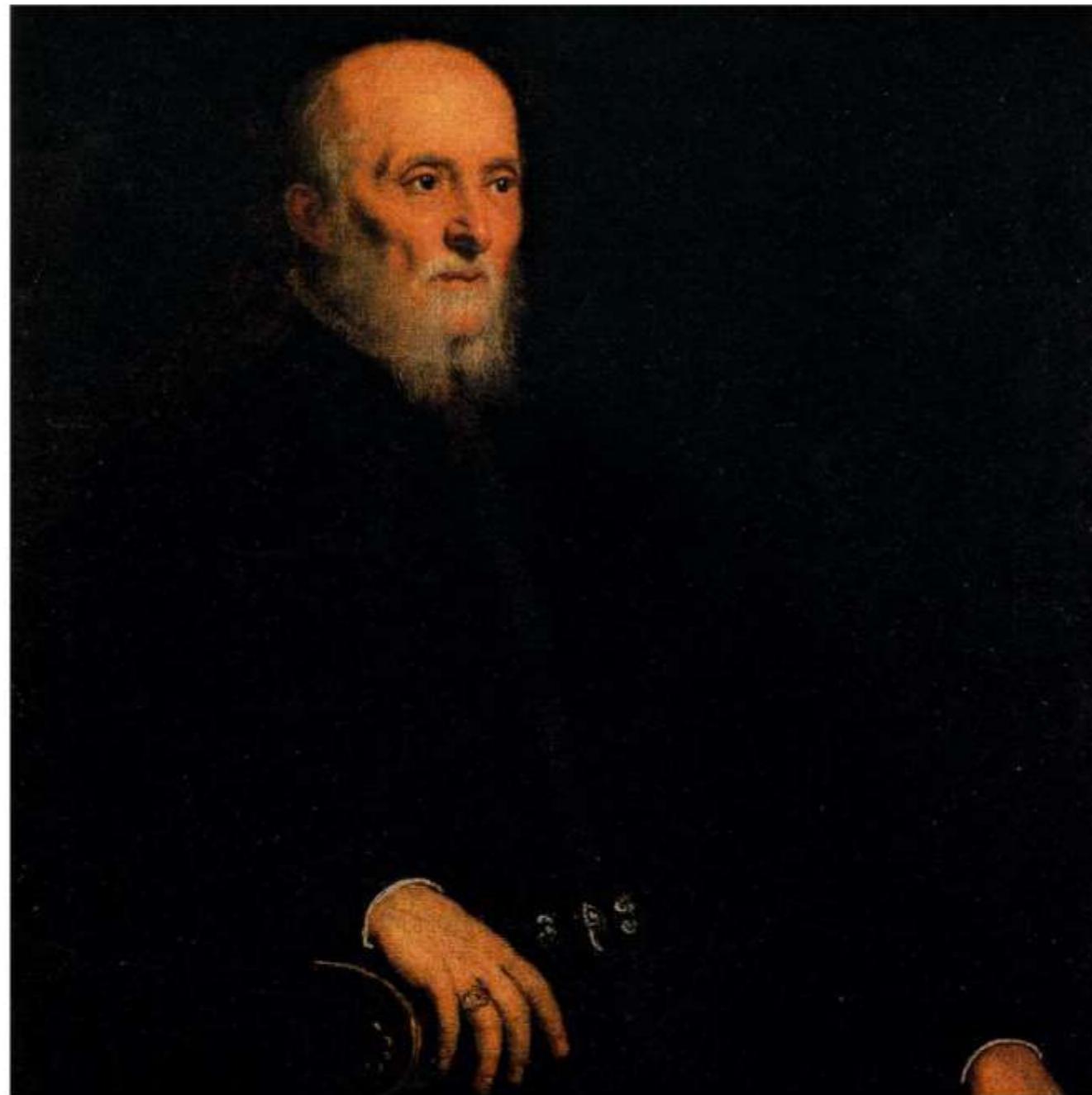
## Modernity



■ Water  
■ Navigable canals  
■ Lagoon borders 1800  
■ Road network

N

## Inland vs. Seaward



*Alvise Cornaro*

Tintoretto, *Ritratto di Alvise Cornaro*, 1560-1565 ca, oil on canvas, 113x85 cm, Firenze, Galleria Palatina.



*Cristoforo Sabbadino*

Anonymous, *Ritratto a mezza figura di prelato*, 1600-1699, oil on canvas, 66 x 59 cm, Chioggia (VE), Biblioteca comunale Cristoforo Sabbadino

Inlandseaward



*Inland*

*Acqua granda, 1966*



*Seaward*

*Acqua granda, 2019*

## Terraforming

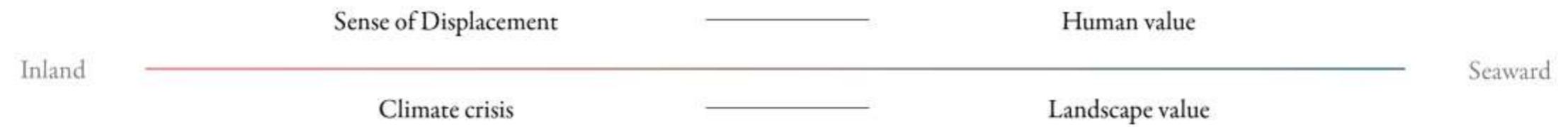


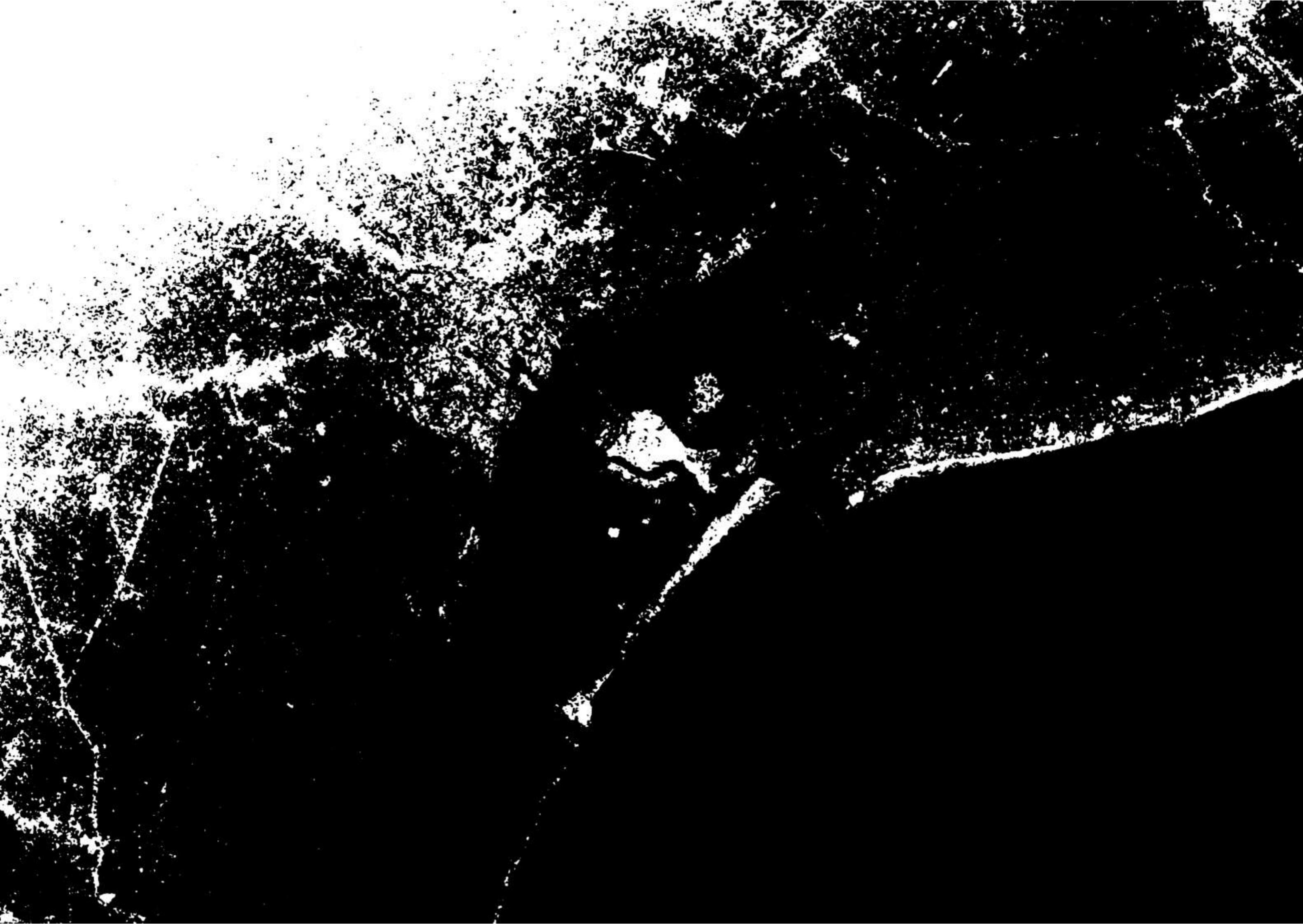
Lebbeus Woods, San Francisco Project, Inhabiting the Quake, 1995, image via archdaily.com

## Utopia

*“Venezia città immortale, immacolata in quanto unica città che non nasce per un omicidio – come è quello compiuto da Romolo -, non nasce, appunto, da un delitto, ma nasce miracolosamente; è il miracolo realizzato, l’utopia realizzata, vergine imprendibile quindi sicura, ma senza mura perché difesa dalle proprie acque. Miracolosa e unica dove l’impossibilità è realtà.”*

- Manfredo Tafuri, 1994, *Le forme del tempo: Venezia e la modernità*



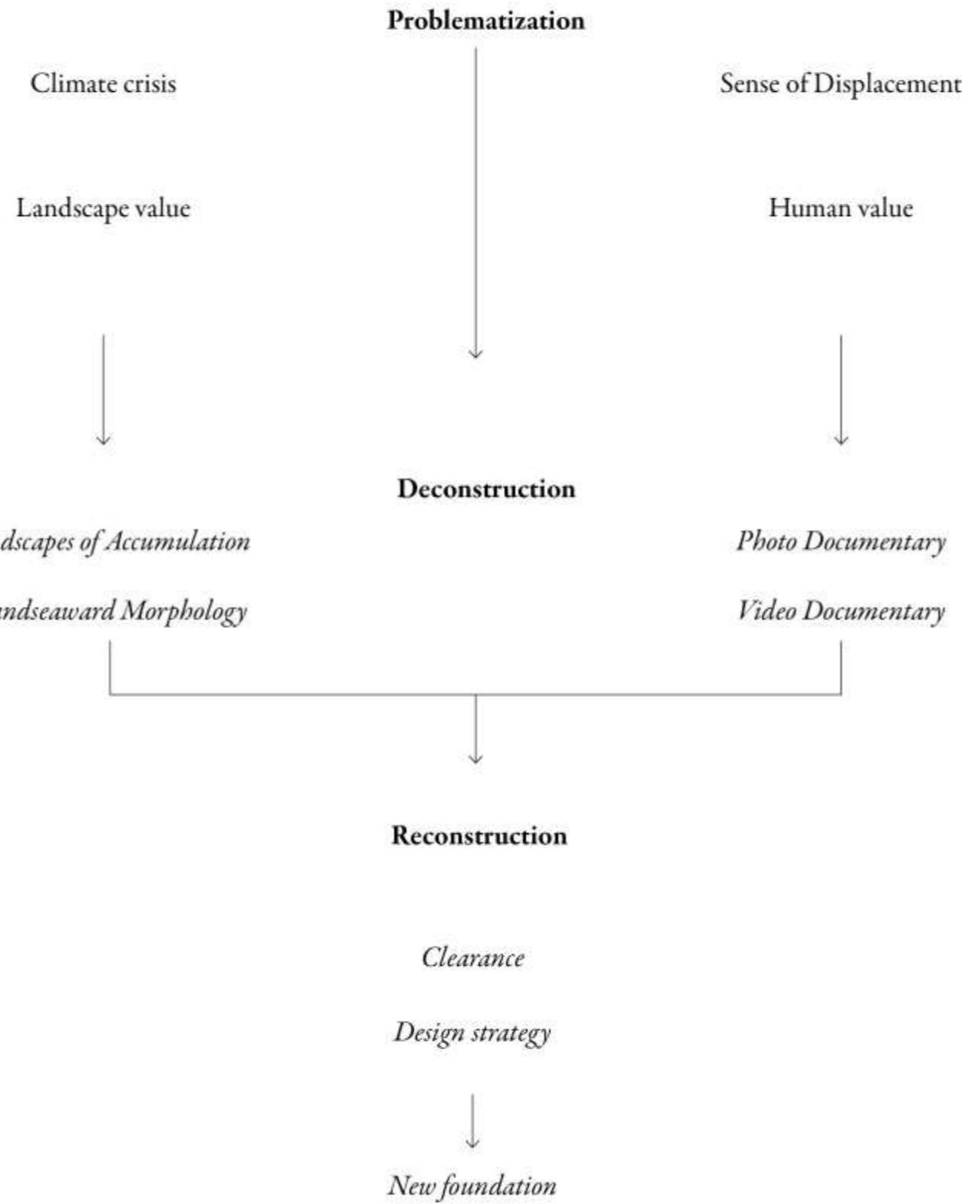


Non-Resistance



In light of the imminent **climate crisis** and its consequent **sea-level rise**,

What is the altered anatomy of **non-resistance** of the Metropolitan city of Venice, supporting its reflection in the spatial, eco, social, economic systems through a **Terraforming** approach?

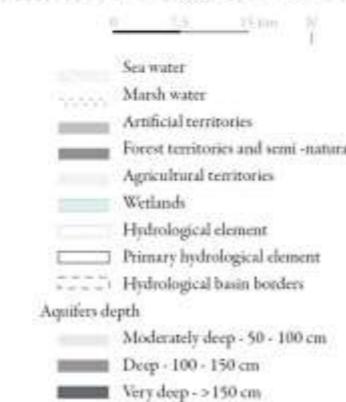
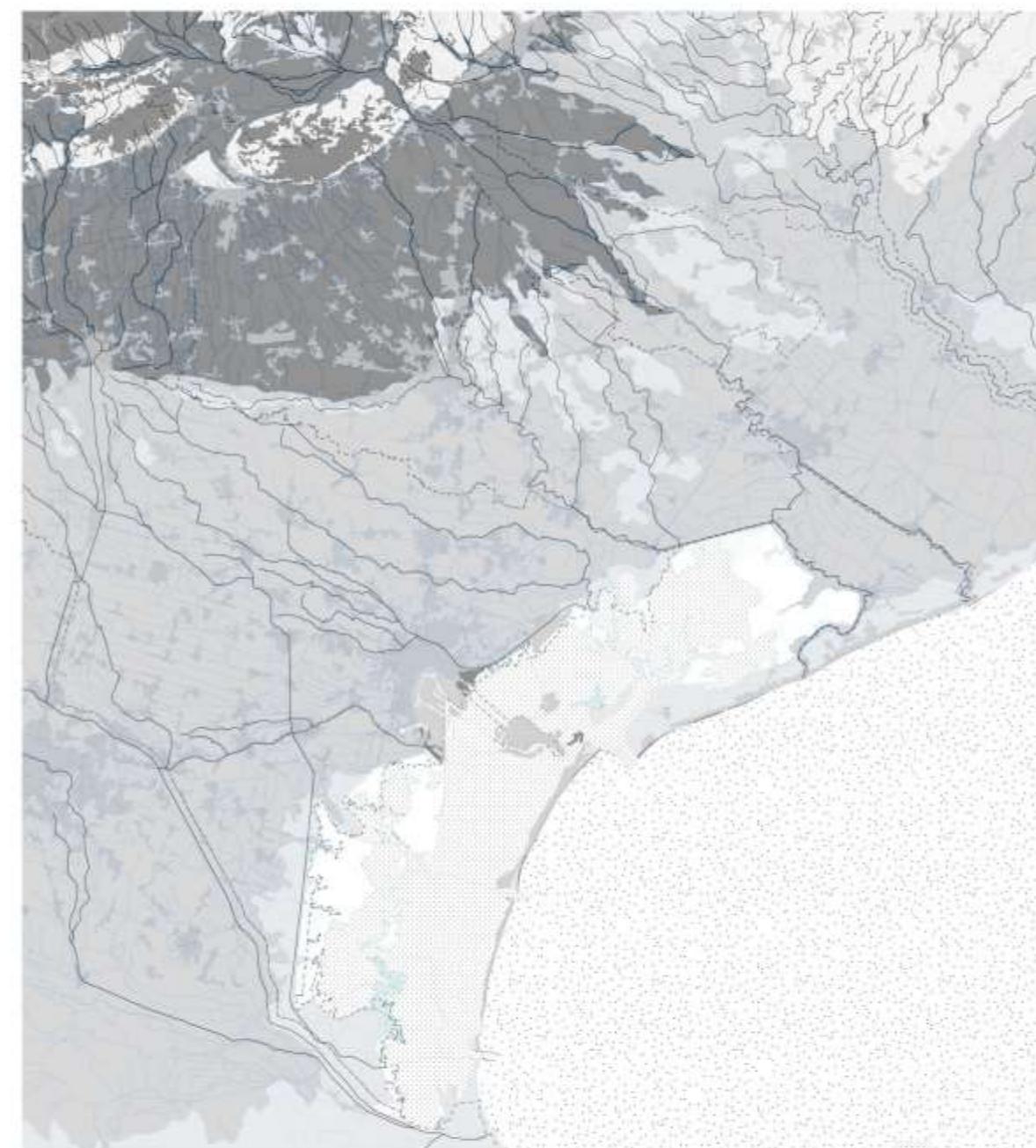


Deconstruction

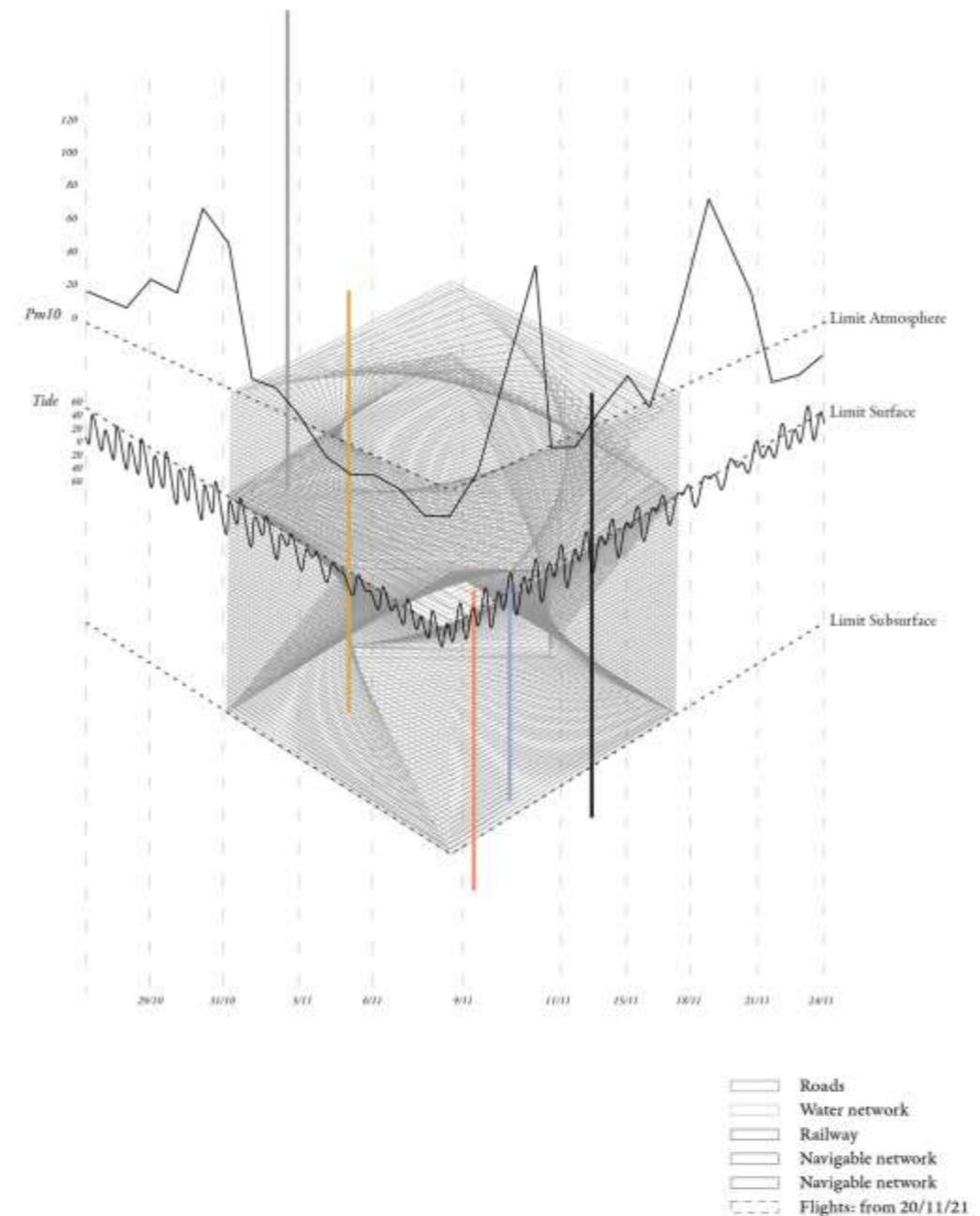


Landscapes of Accumulation

## Matter



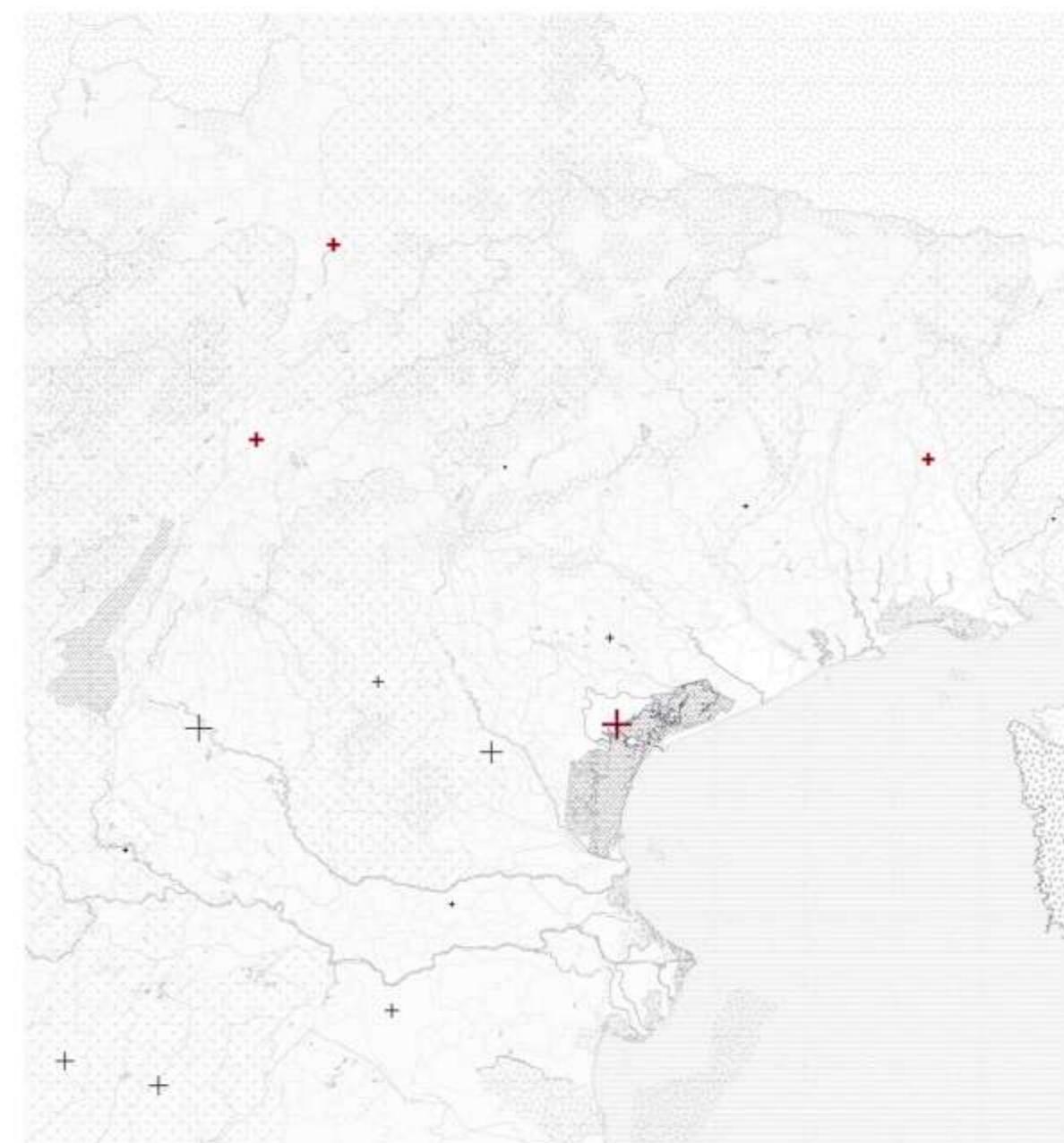
## Habitat



# Topos



## Geopolitics



### Administration of ecological elements

- European level
  - National level
  - Regional level
  - Municipality
  - Hydrological basins
- +
- Region capital
  - +

Dimensions based on population:  
Max 261'905 (Venezia) Min 34'742 (Gorizia)

Inlandseaward Morphology

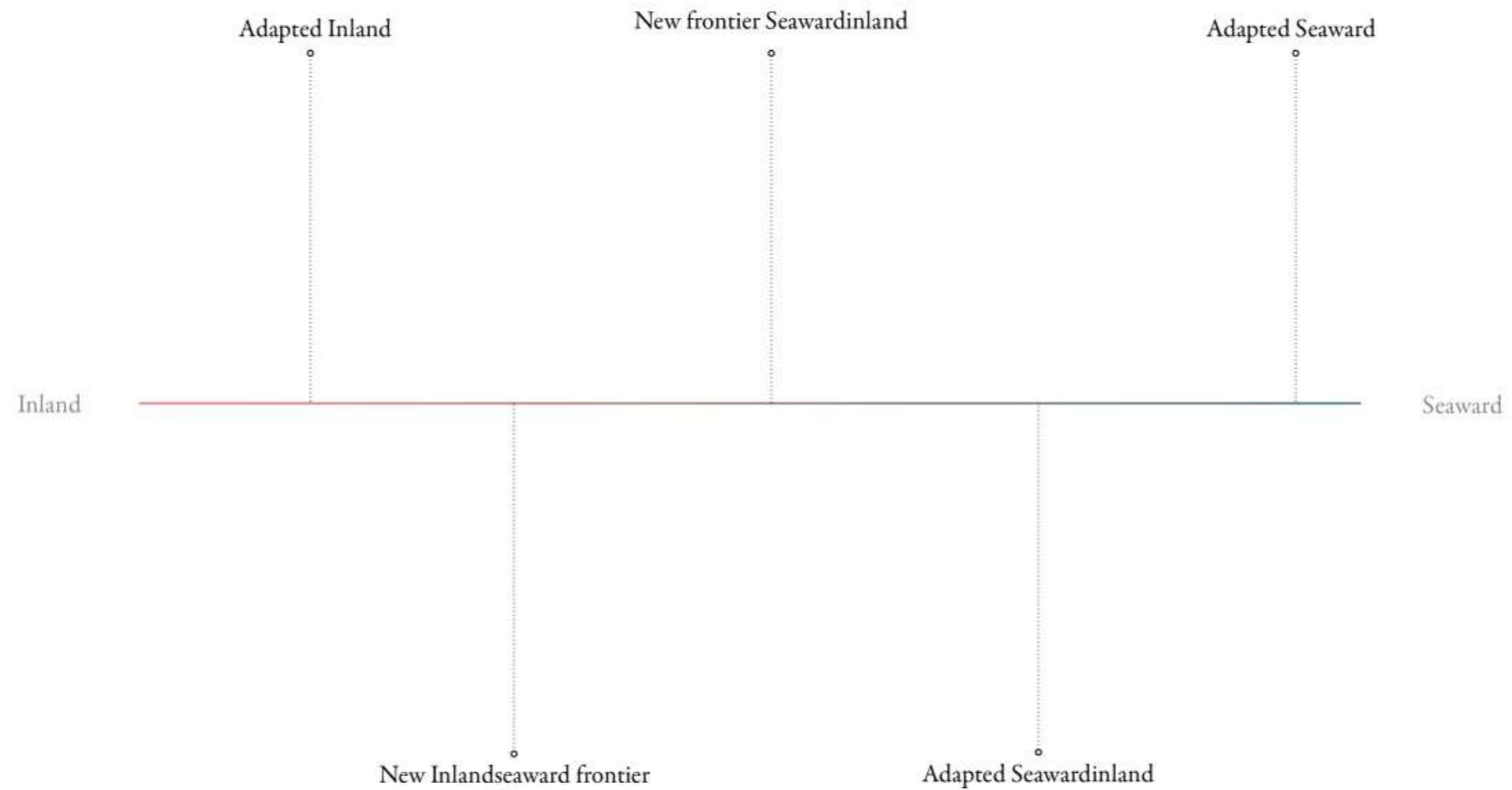
Inland vs. Seaward



Inland vs. Seaward



## Frontiers



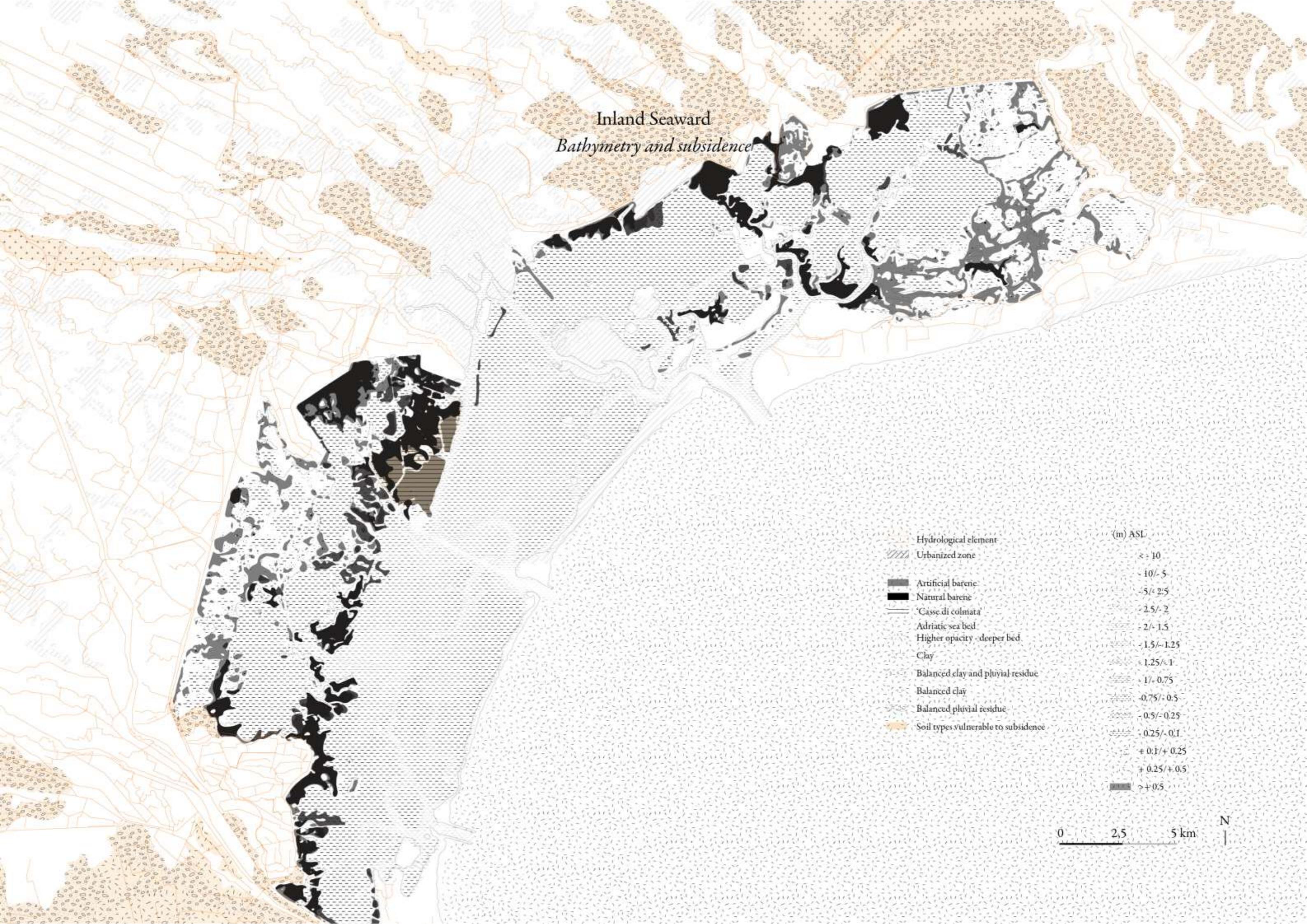
Climate crisis

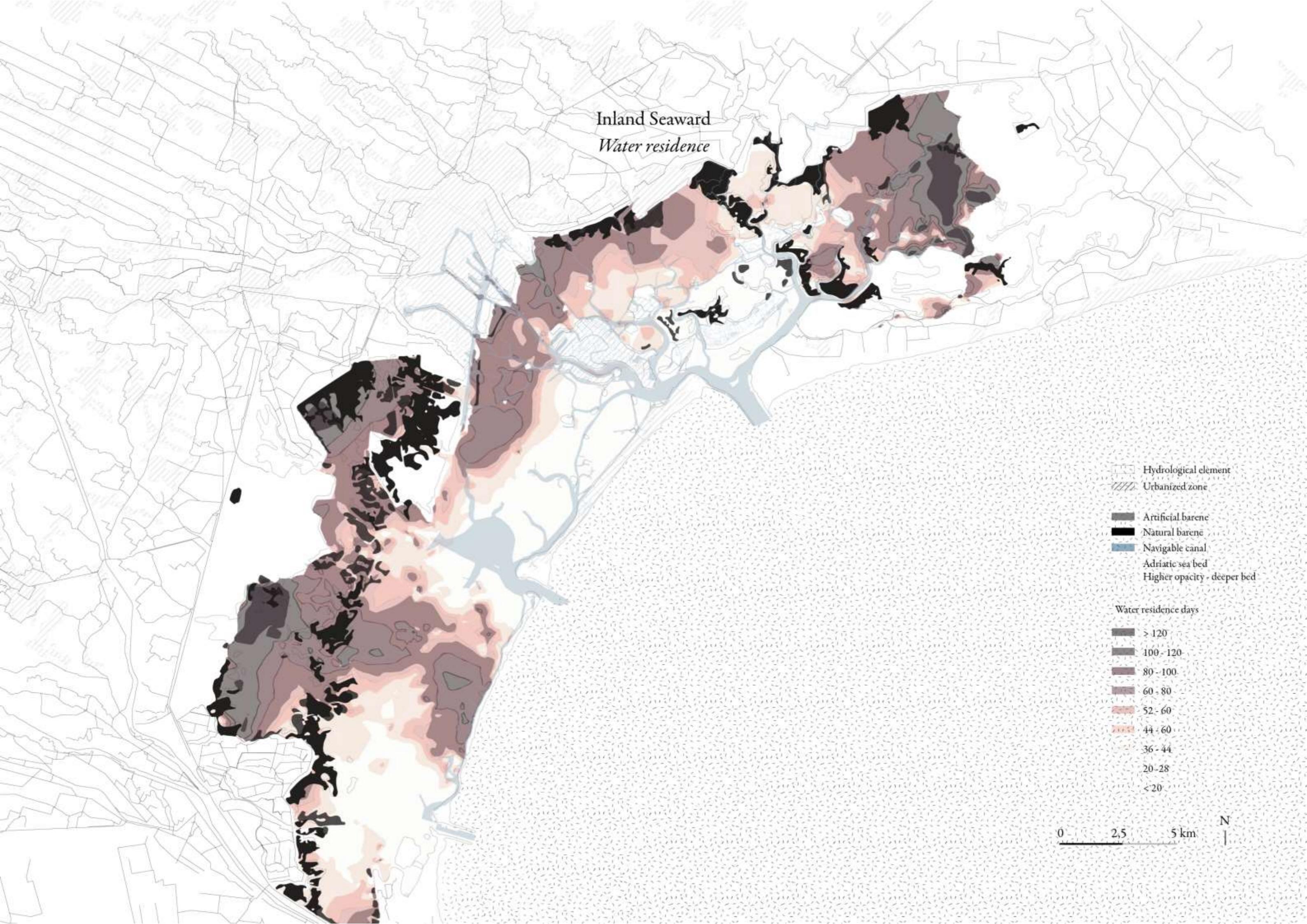


Landscape



New land potential



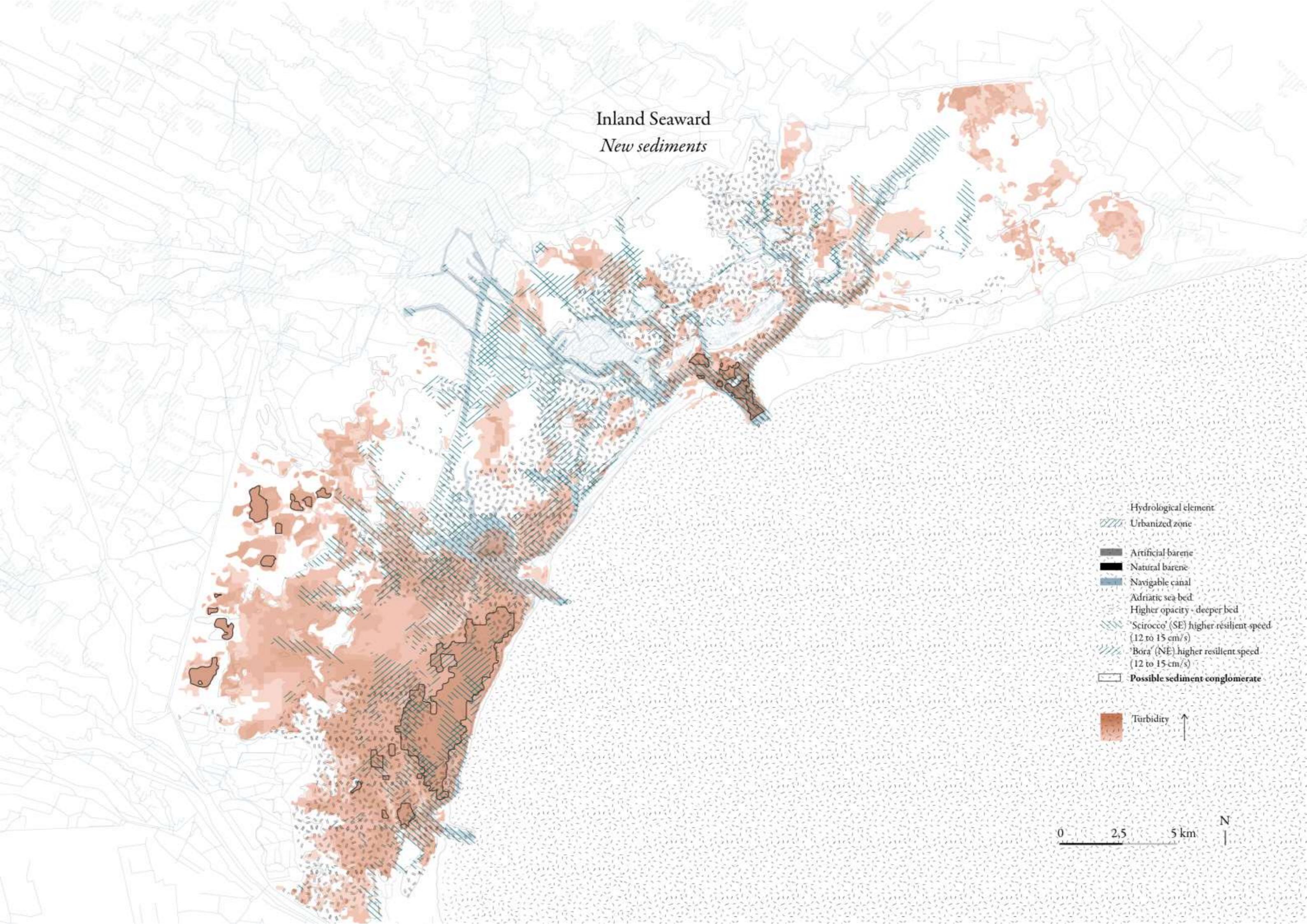


Inland Seaward  
*New sediments*

- Hydrological element
- Urbanized zone
  - Artificial barene
  - Natural barene
  - Navigable canal
  - Adriatic sea bed
  - Higher opacity - deeper bed
  - Scirocco (SE) higher resilient speed (12 to 15 cm/s)
  - 'Bora' (NE) higher resilient speed (12 to 15 cm/s)
  - Possible sediment conglomerate

Turbidity ↑

0 2,5 5 km N



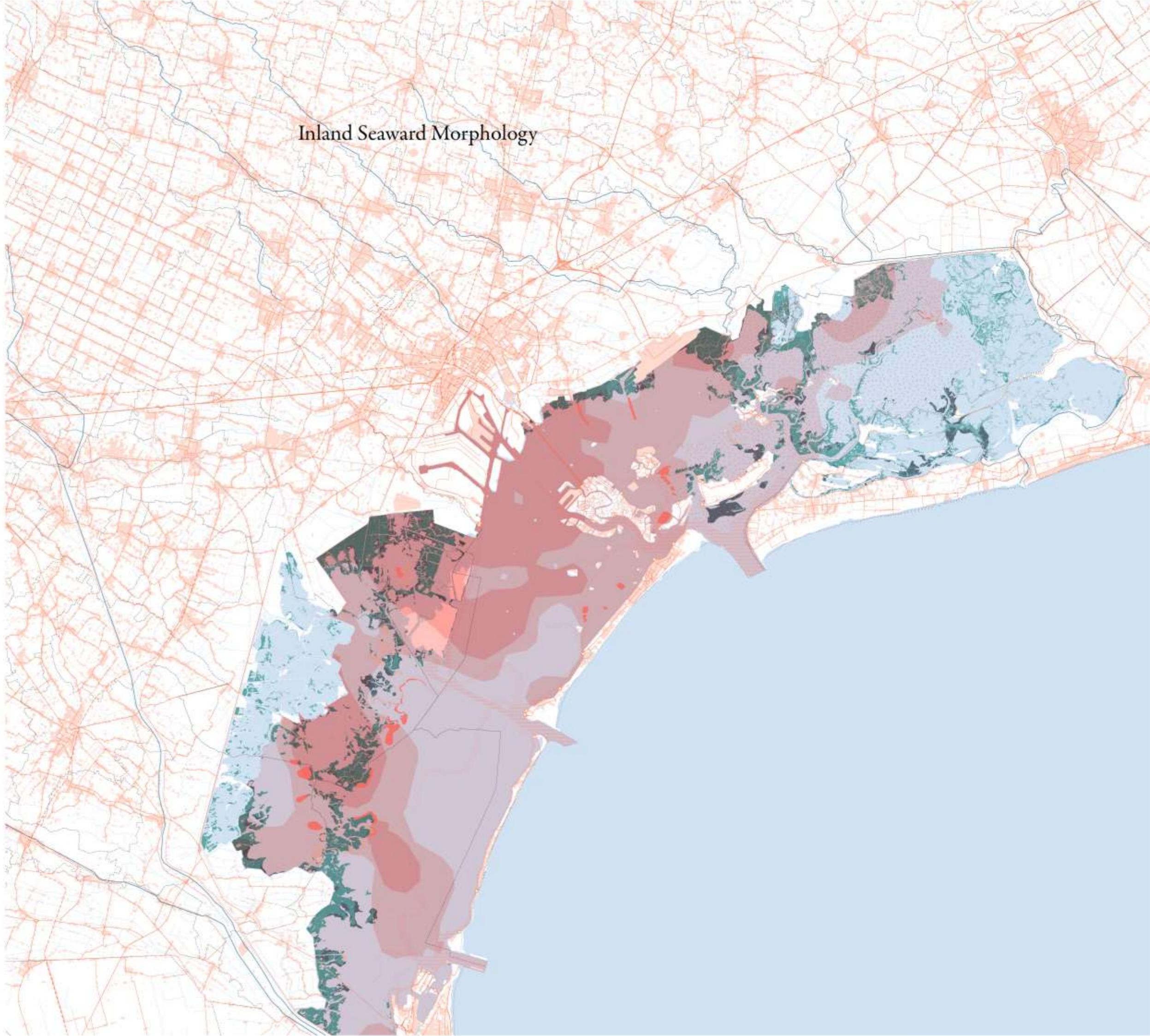
## Inland

- Urban fabric
- Railway
- Road Infrastructure
- Canals jurisdiction
- Ex - Magistrato alle Acque
- Veneto Region
- Genio Civile opere marittime
- Municipality of Venice
- Proposed borders of the project 'Parco Laguna'
- Artificial Barene
- Artificial Velme
- Pollution of sediment
- PCCDF between:
  - 1-2
  - 2-3
  - 3-6
- Municipality borders

## Seaward

- Water bodies
- Primary rivers
- Hydrological elements
- Natural Barene
- Natural Velme

## Inland Seaward Morphology

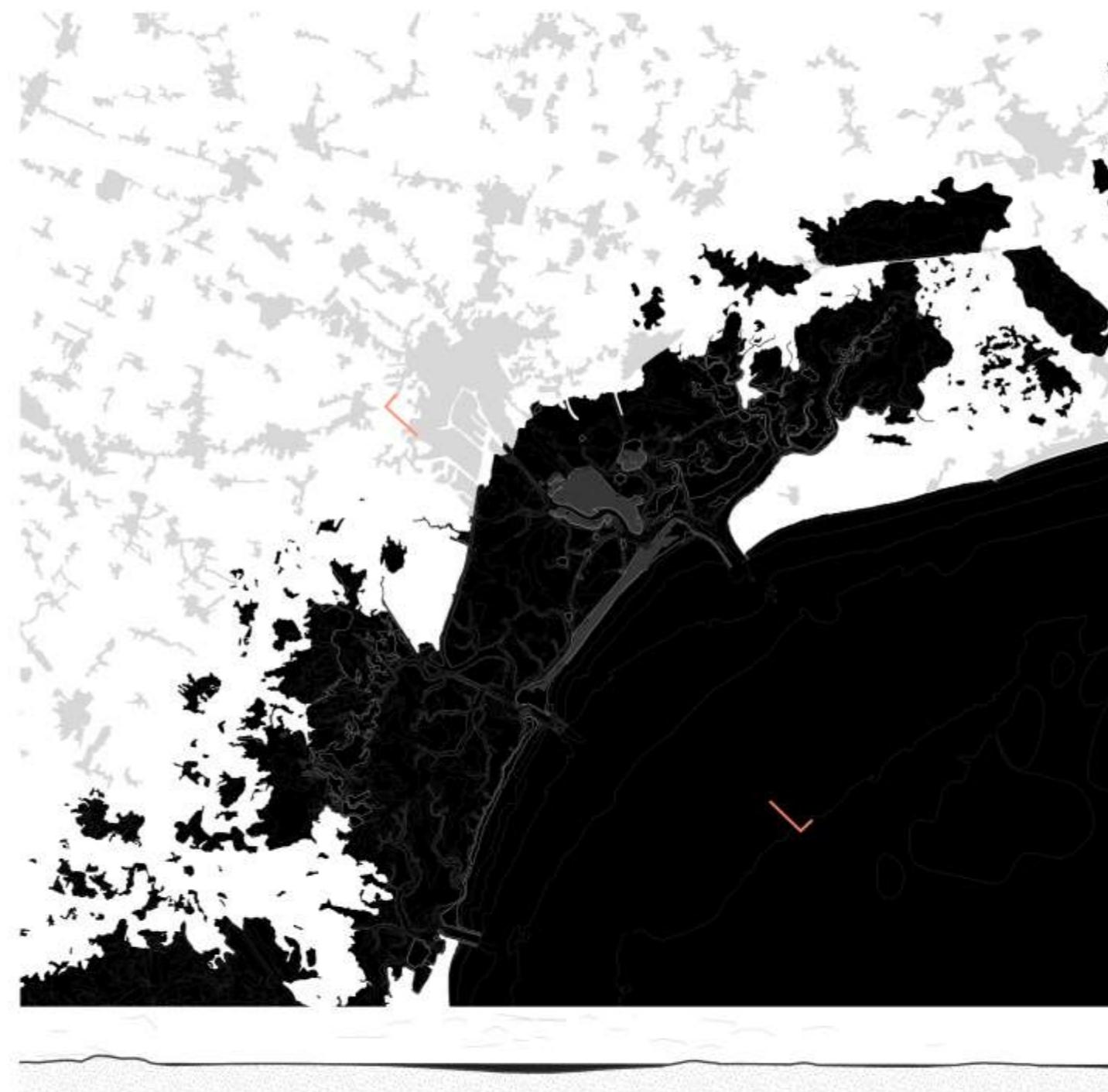


RSL scenarios

Analysis - RSL  
*Current situation*



Analysis - RSL  
*Transition 1*



Scenario definition	Year	RSL projection - median (m)	RSL projection - Worst case (m)	Subsidence ( average 1.5 mm/y)	Altimetry	Action
1	2030	+0.15	+0.175	-12 mm	< 0 m	Process of preparation

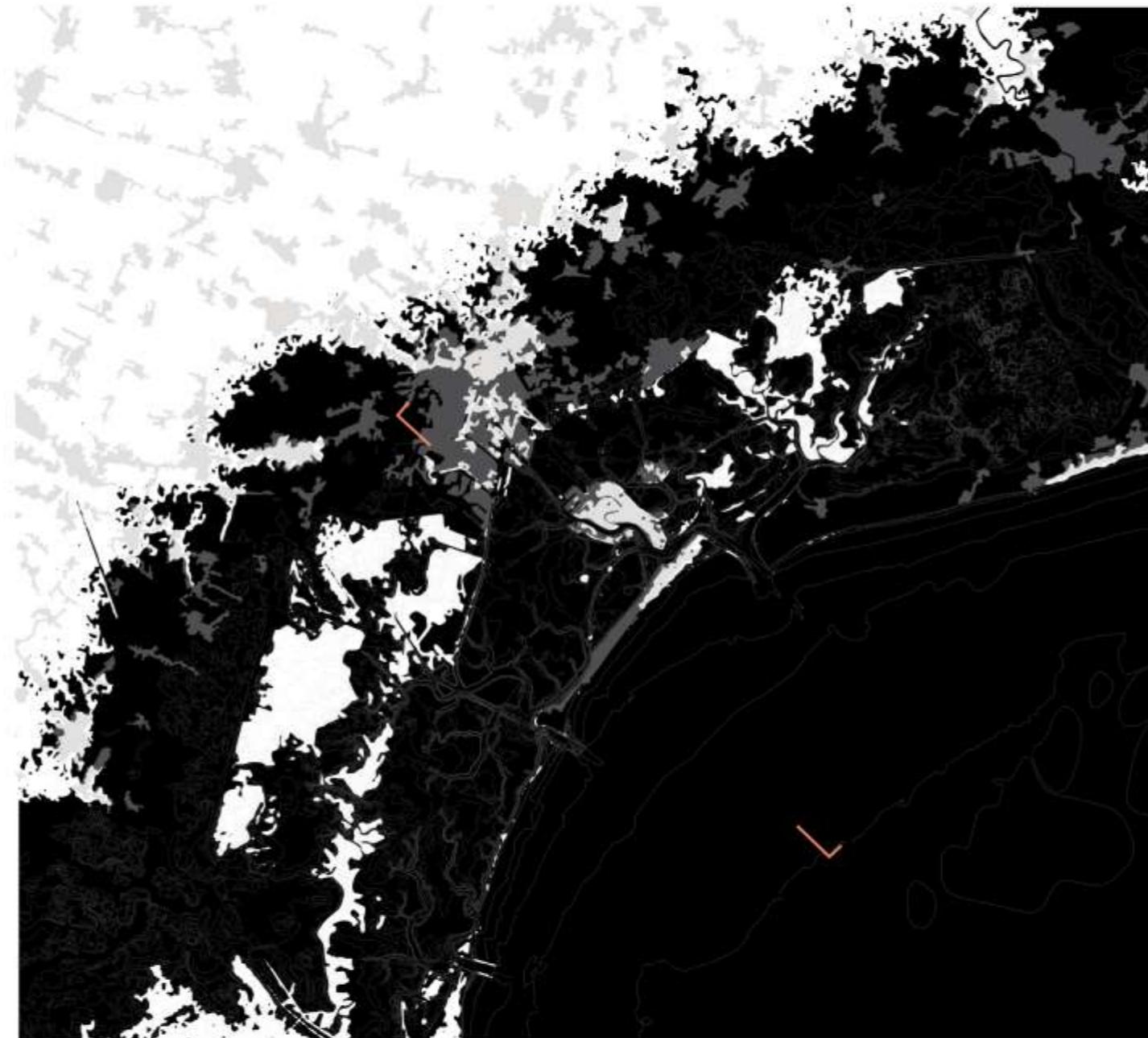
Analysis - RSL  
*Transition 2*



Scenario definition	Year	RSL projection - median (m)	RSL projection - Worst case (m)	Subsidence ( average 1,5 mm/y)	Altimetry	Action
Phase 2	2060	+0,325	+0,45	-57 mm	< 0,5 m	Process of Non Resistance

## Analysis - RSL

2100



Scenario definition	Year	RSL projection - median (m)	RSL projection - Worst case (m)	Subsidence ( average 1,5 mm/y)	Altimetry	Action
Phase 5	2100	+0,75	+0,81	-117 mm	< 1,0 m	Terraforming

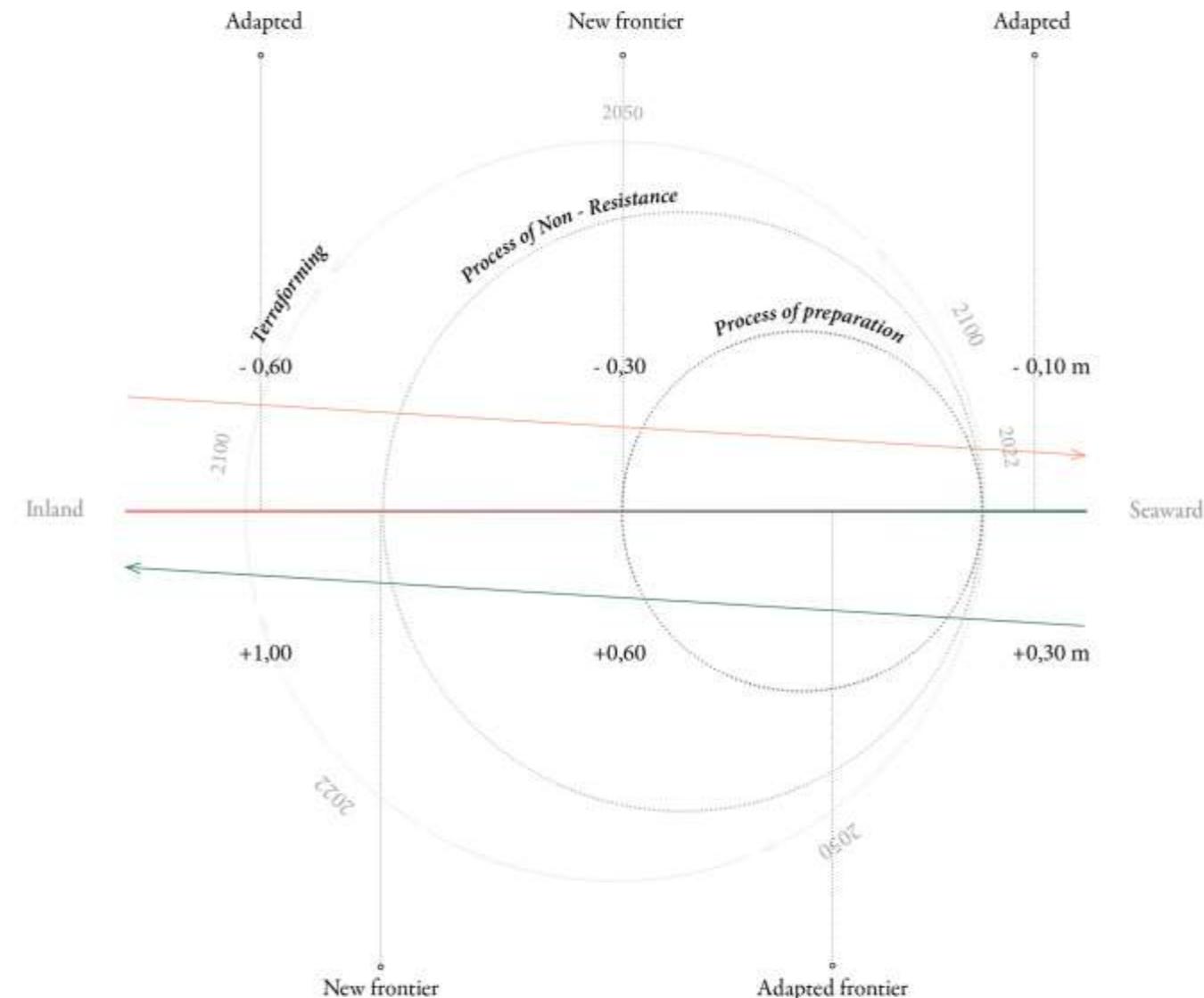
(savemedcoasts-2, 2018)

Reconstruction



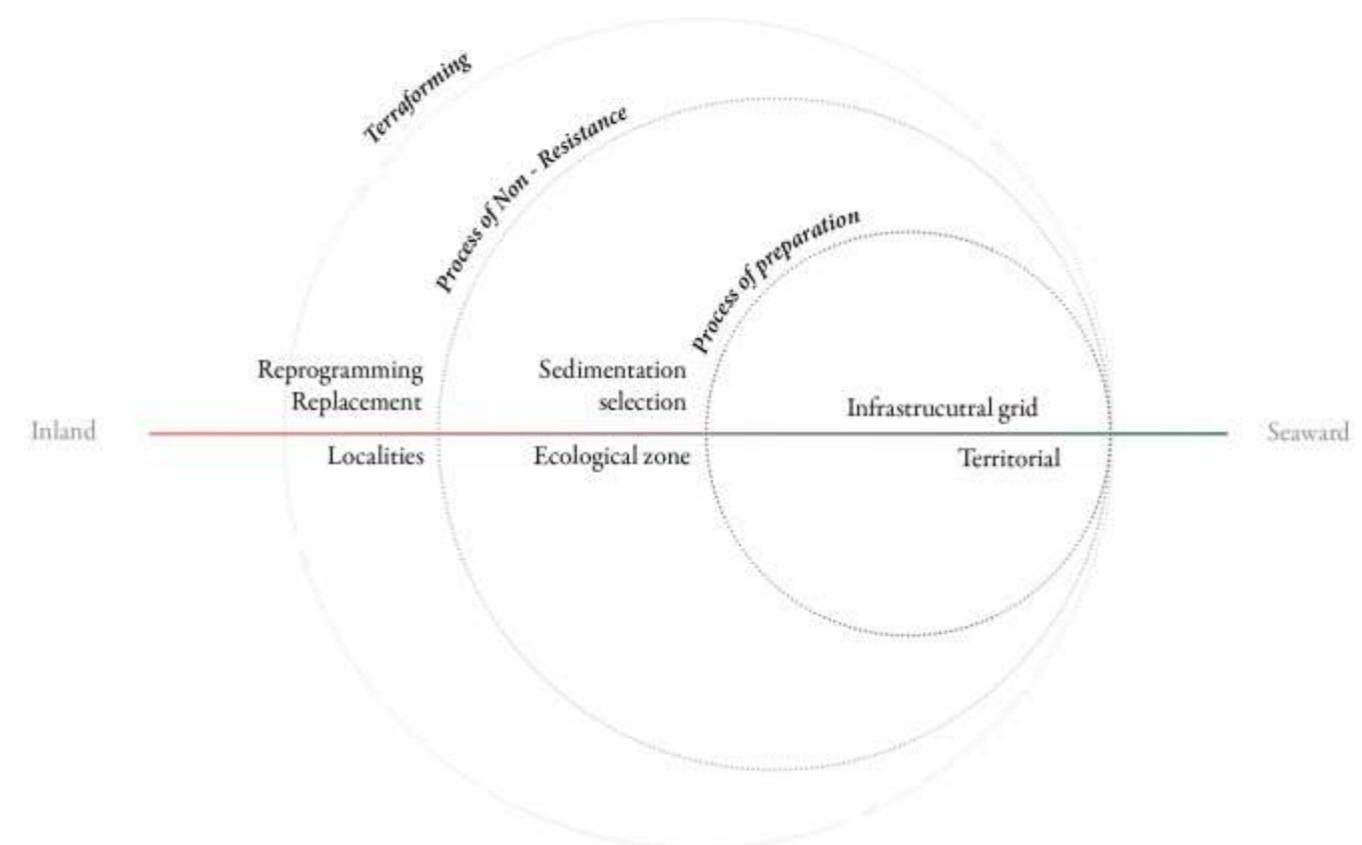
Design strategy

## Design framework

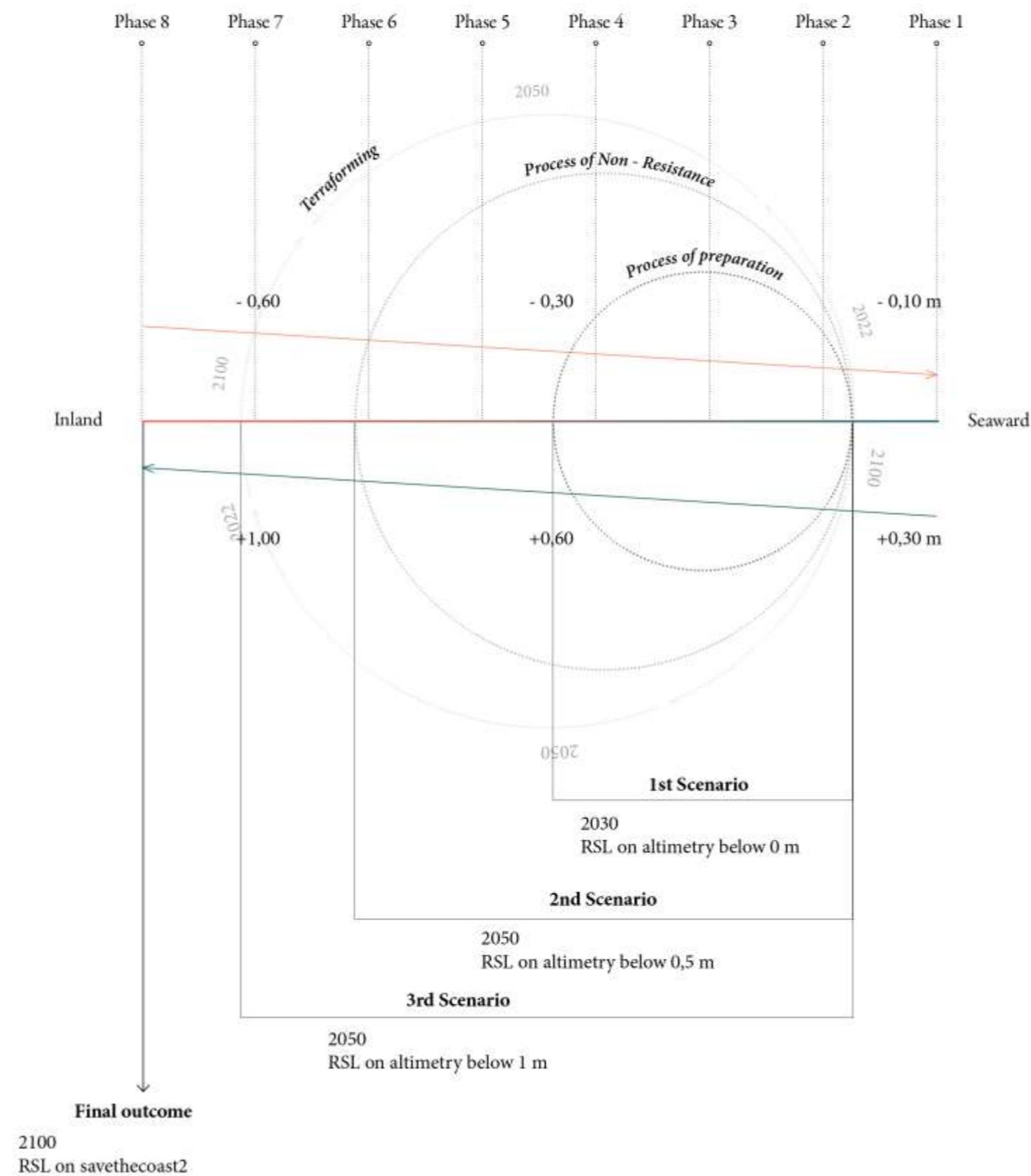


- Time - Circular Movement
- Matter - Downward Movement
- Water - Upward Movement
- ..... Action of Clearance

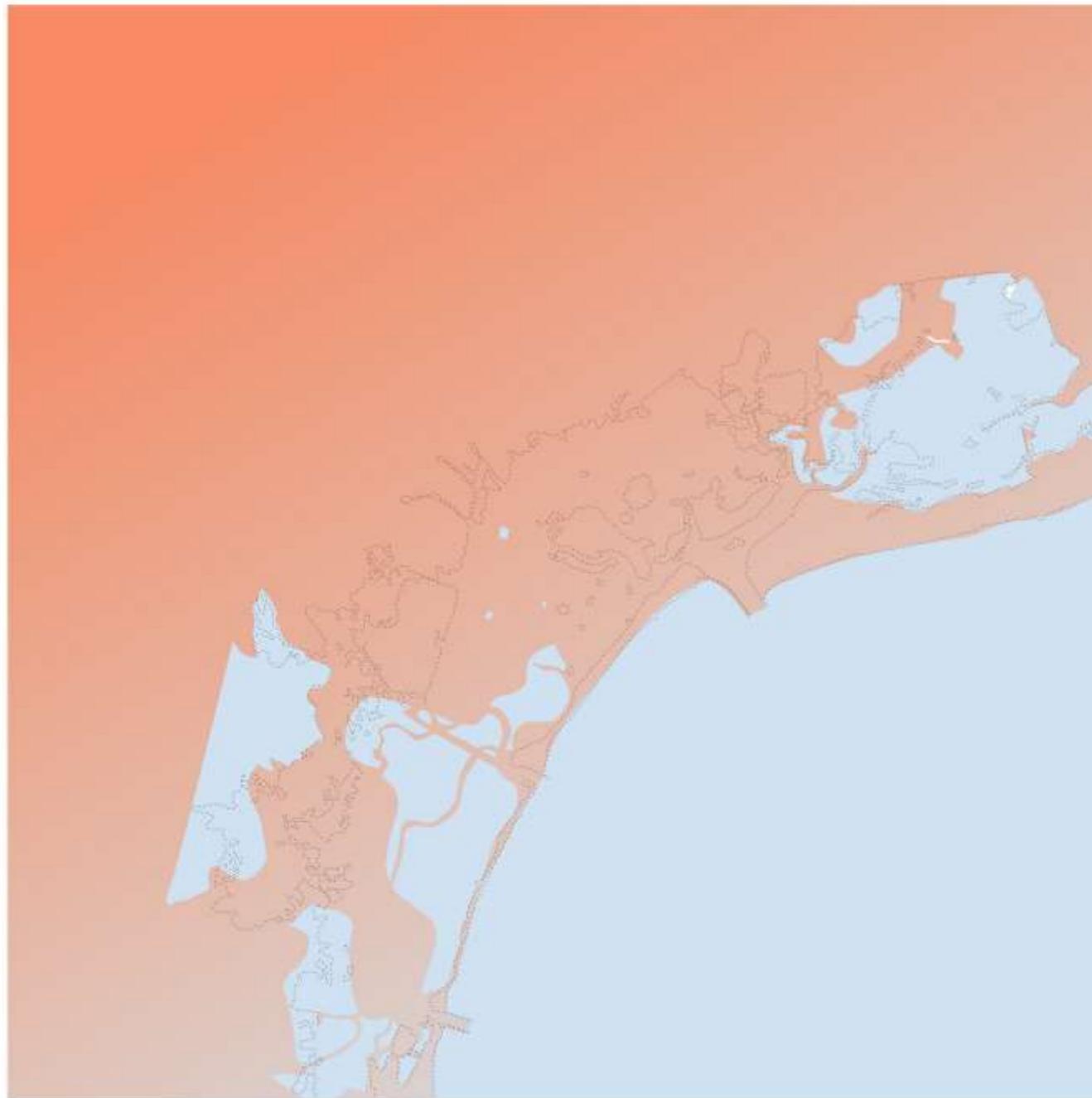
## Design framework



## Design - Strategy



## Strategy elementals

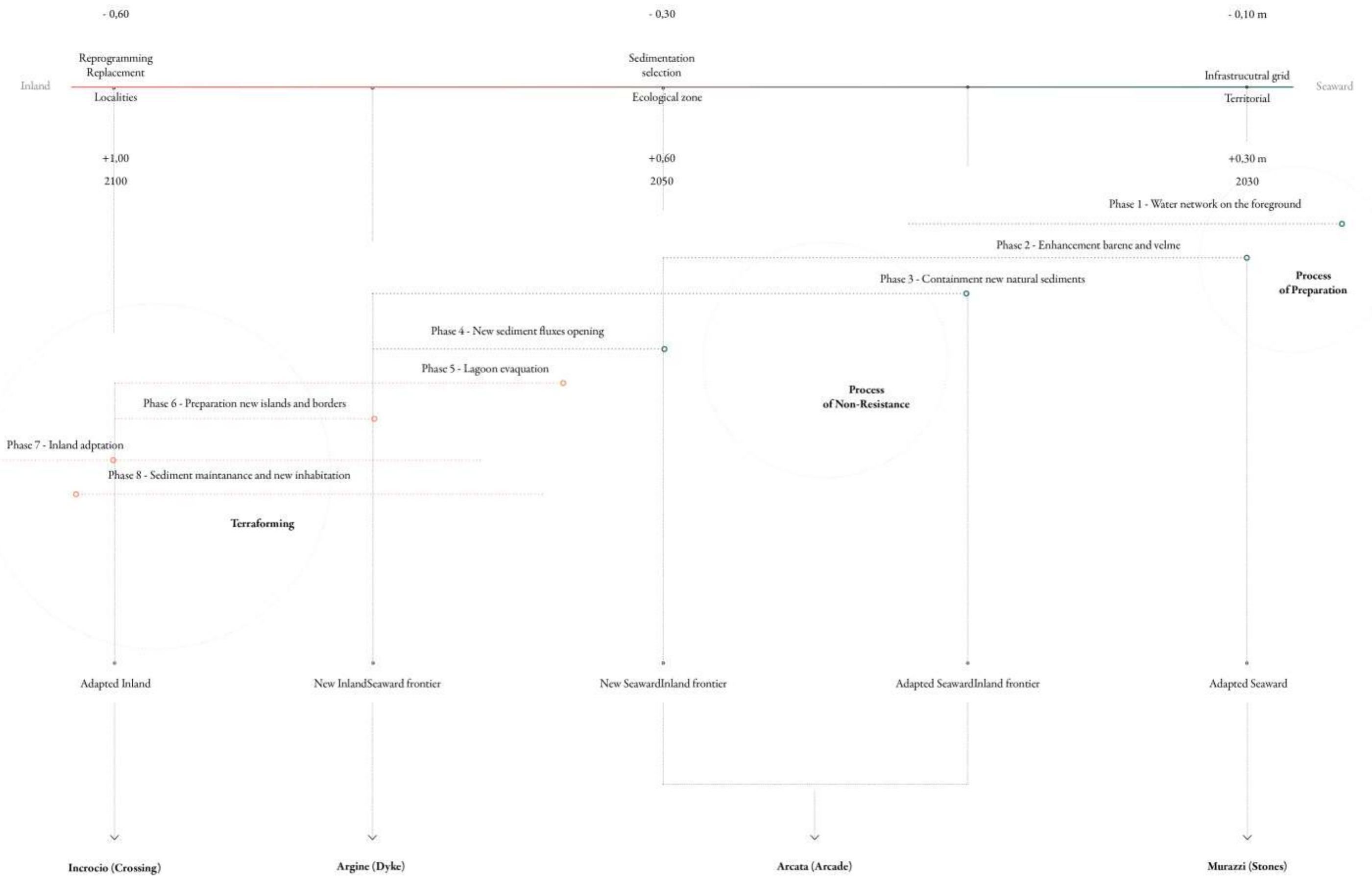


*Inlandseaward*



*Water Infrastructure*

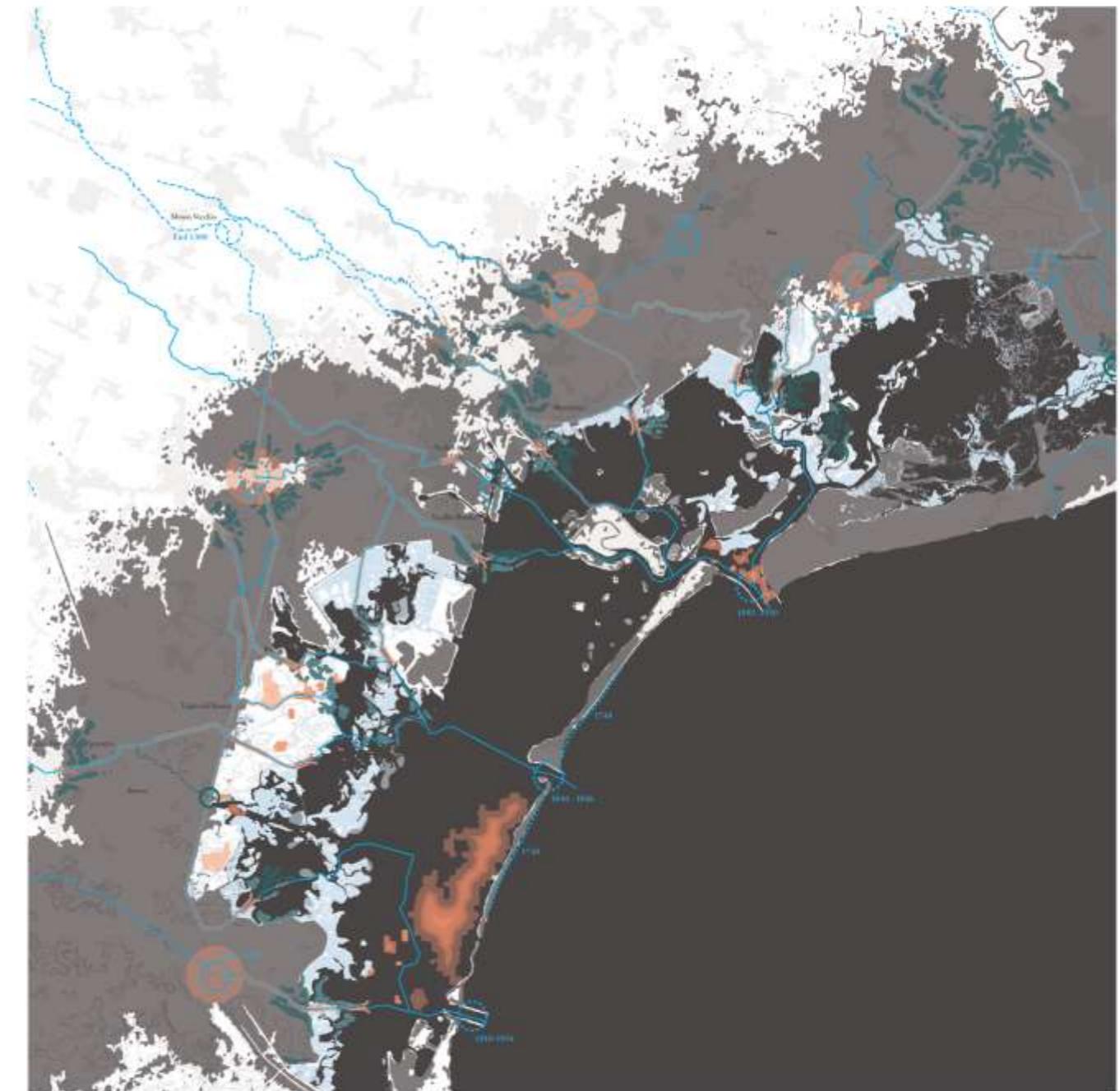
## Design - Strategy



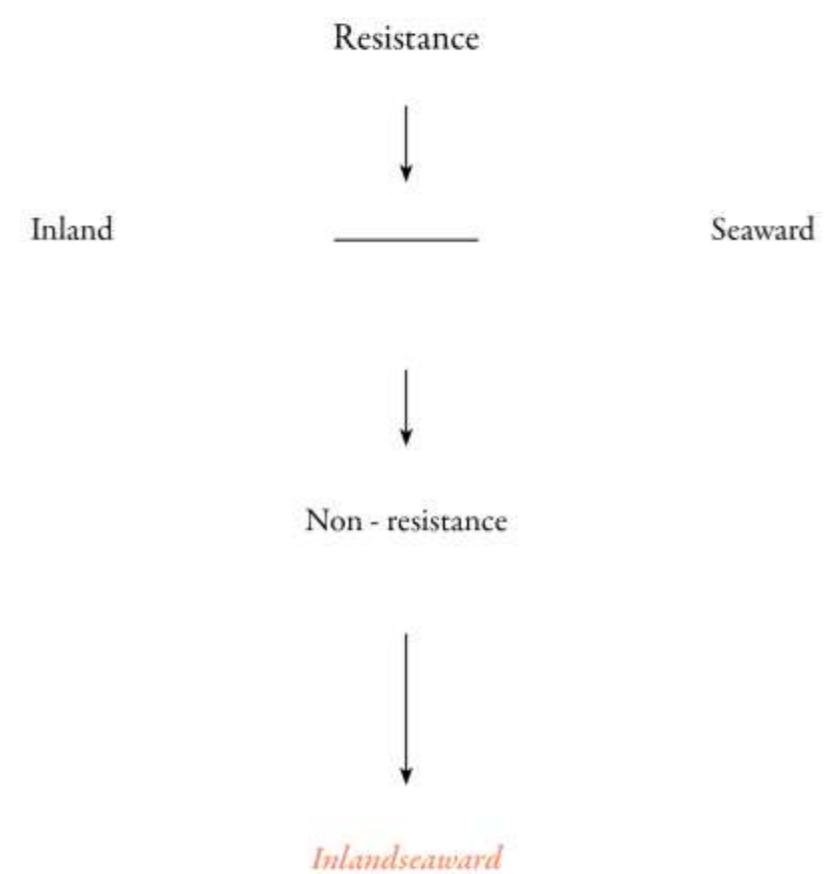
2100 Condition



*Inlandseaward*



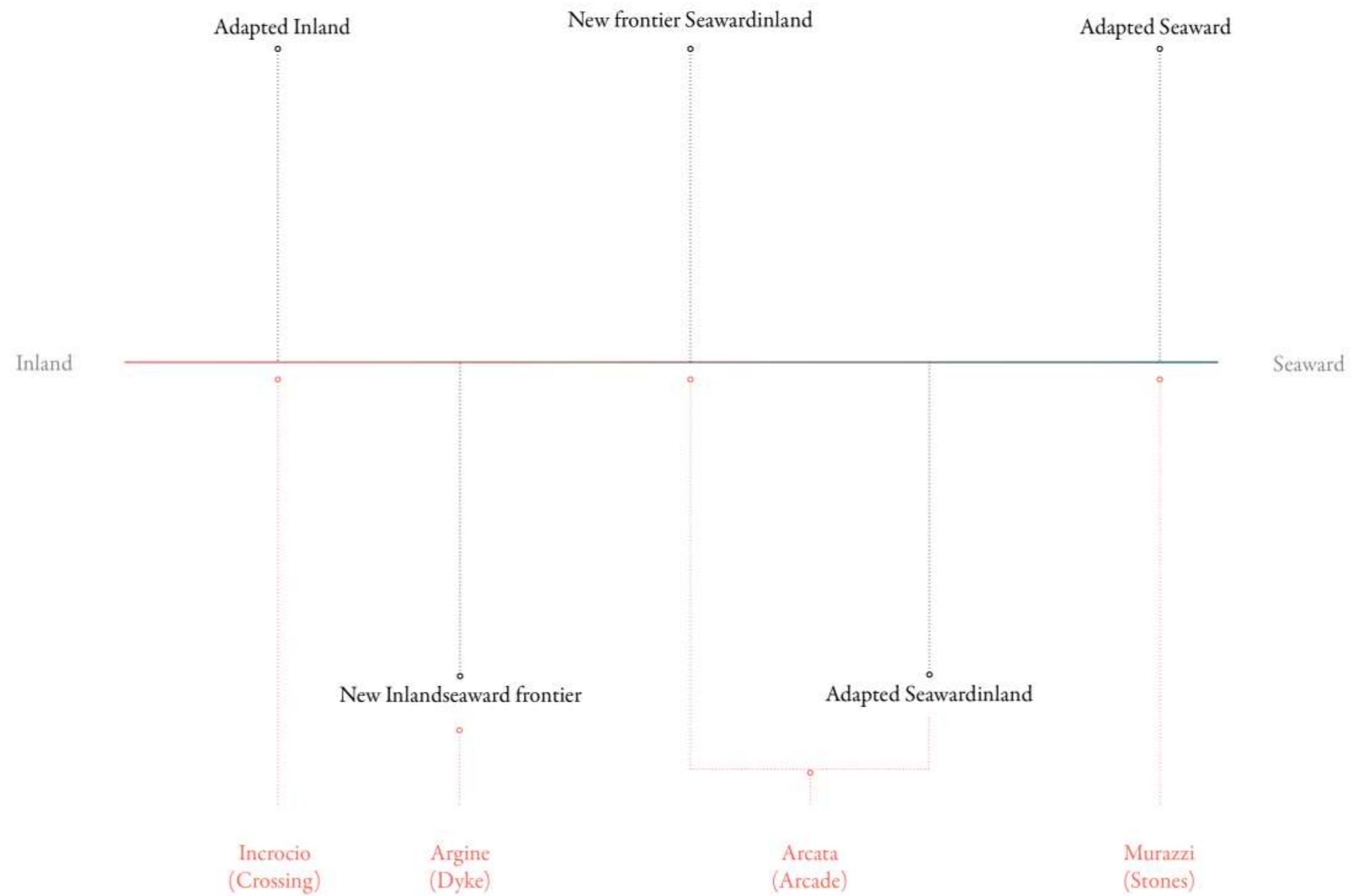
*Water Infrastructure*

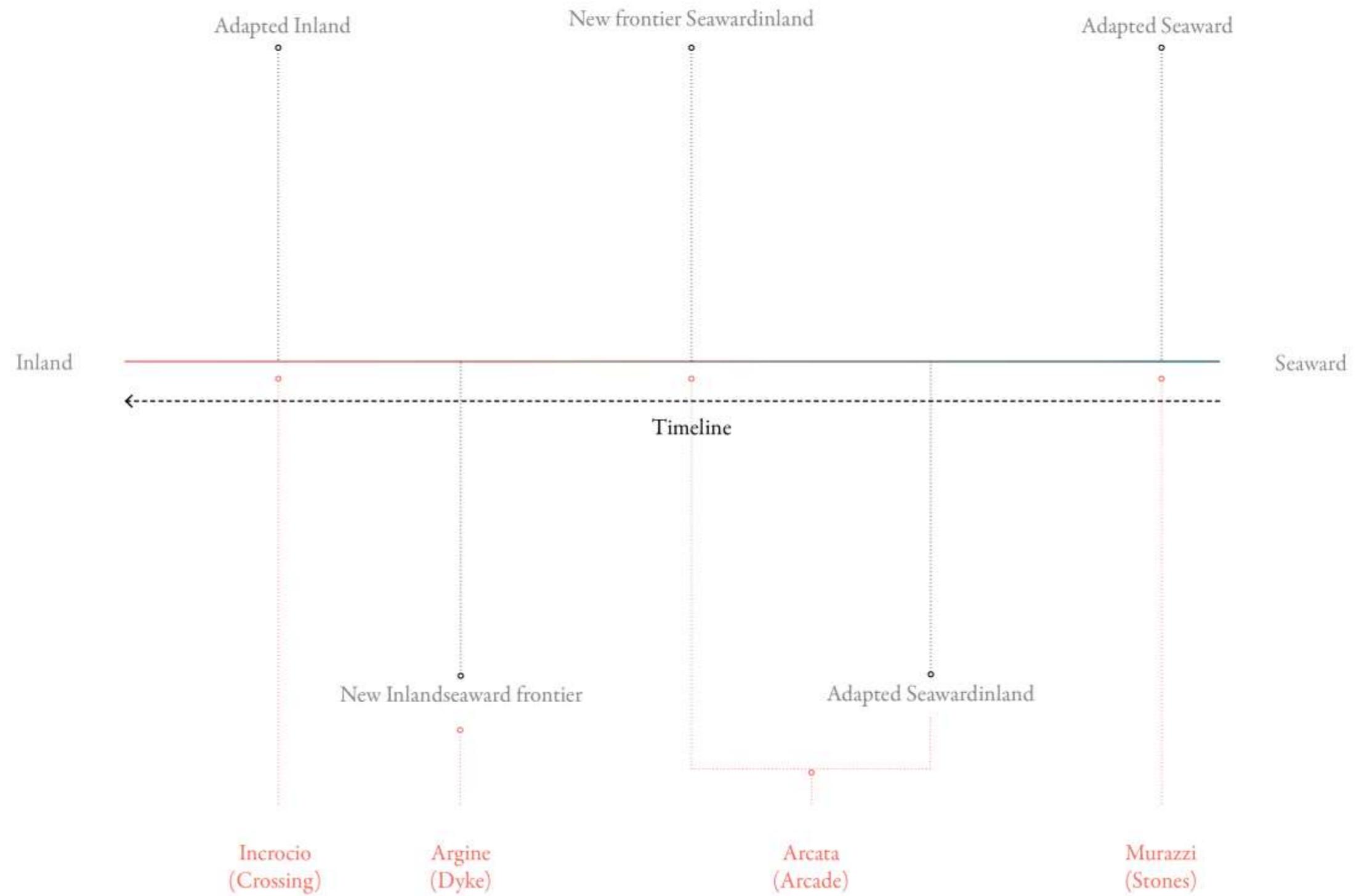


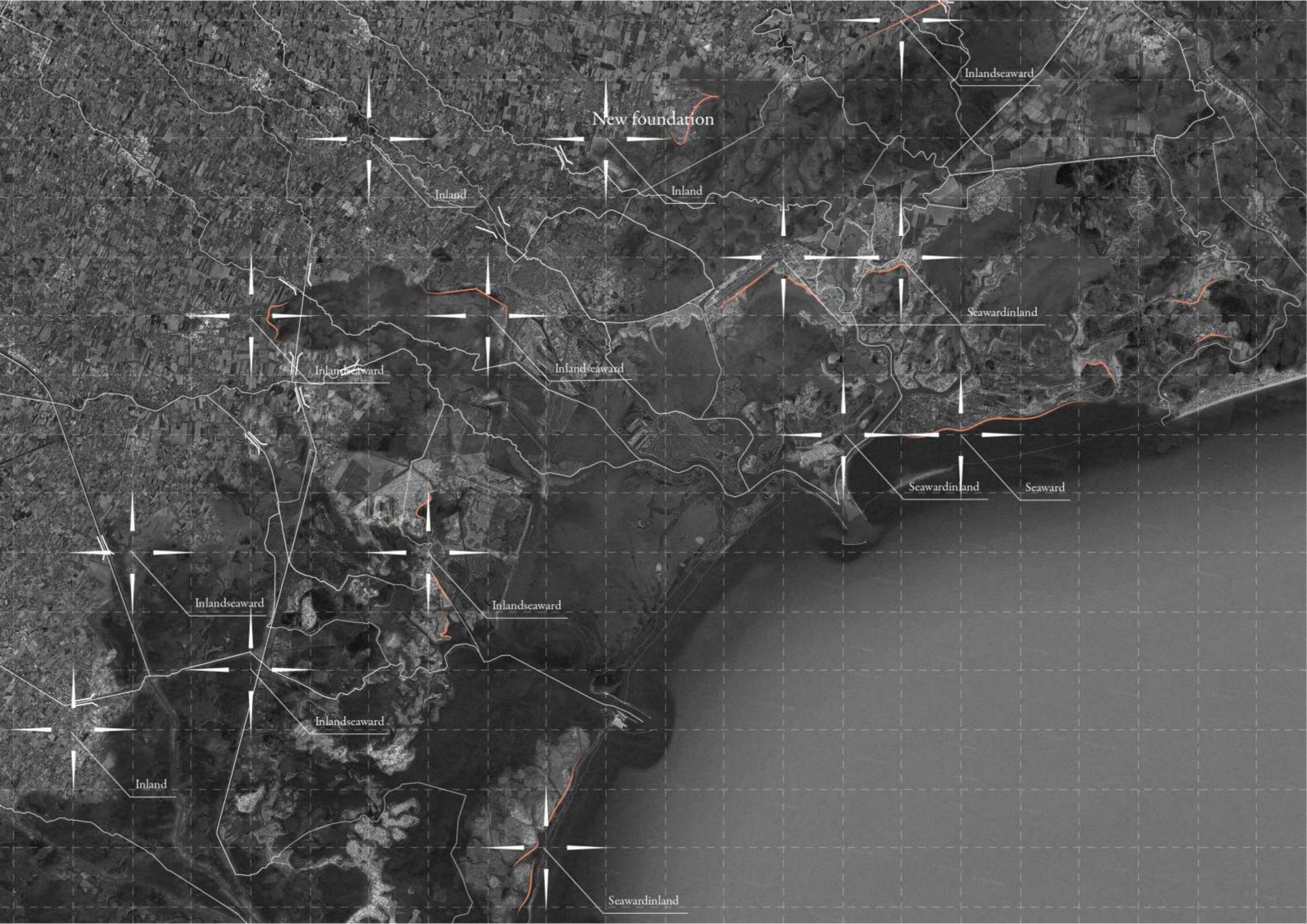
Resistance  
*Inland vs. Seaward*

This image is a composite of an aerial photograph and a map overlay. The aerial photograph shows a coastal region with a mix of urban and rural land use, characterized by various shades of gray and green. Overlaid on this are several white lines forming a grid-like pattern, likely representing a coordinate system or a specific map projection. A prominent feature is a large, irregularly shaped area in the center-right portion of the image, which appears darker and more textured than the surrounding land. This area is outlined by a thick white line and contains a network of smaller white lines, possibly representing roads or waterways. In the bottom left corner, there is a dashed white outline of a polygon, which appears to be a coastal zone or a specific study area. The overall composition suggests a technical or scientific analysis of coastal land use or environmental factors.

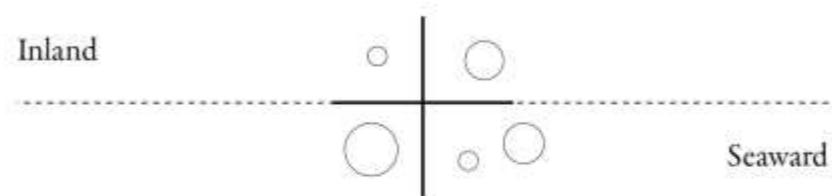
Non - Resistance  
*Inlandseaward*







From frontier to new foundation



New foundation as historical pacification



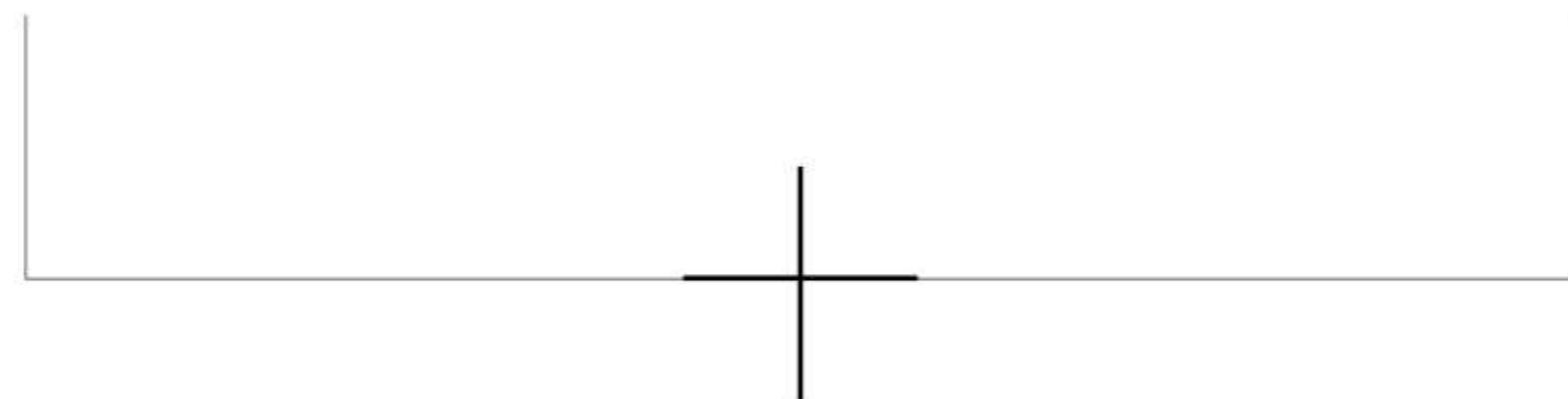
*Alvise Cornaro*



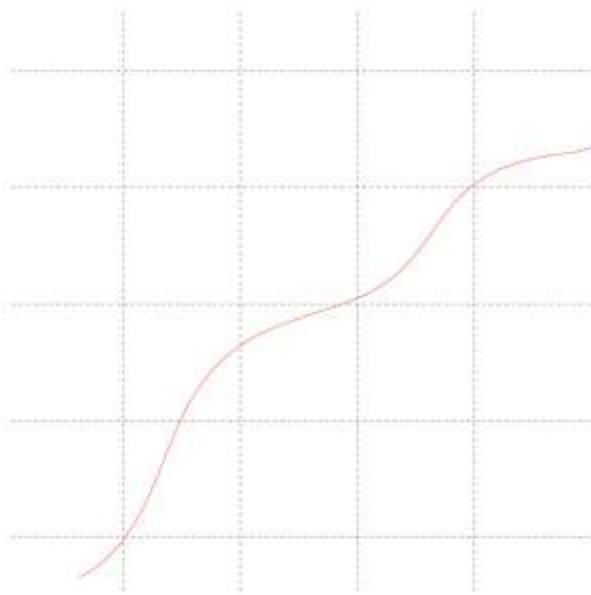
*Cristoforo Sabbadino*

The wall

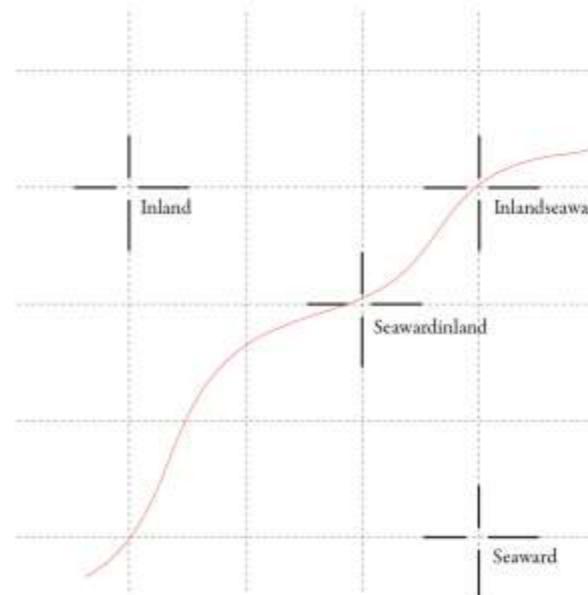
Sedimentation flow



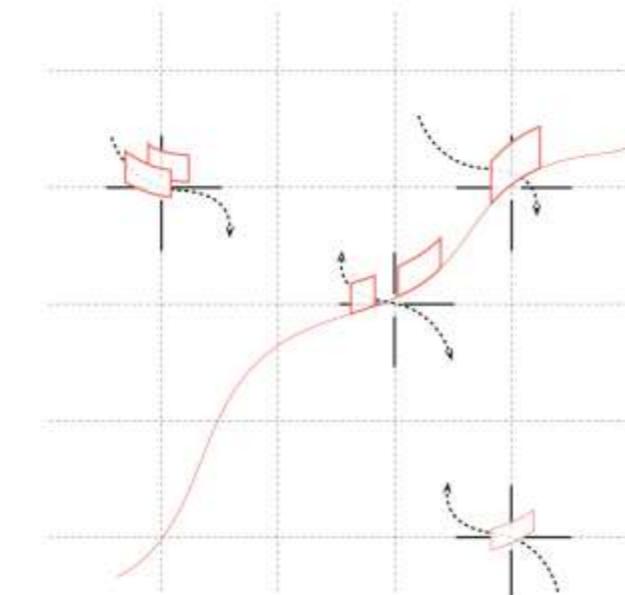
## Pole of foundation as activator



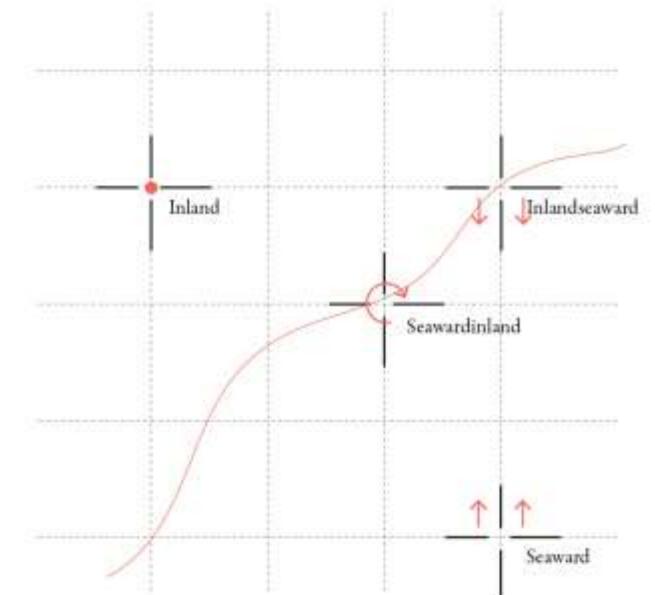
*Border*



*New foundation*

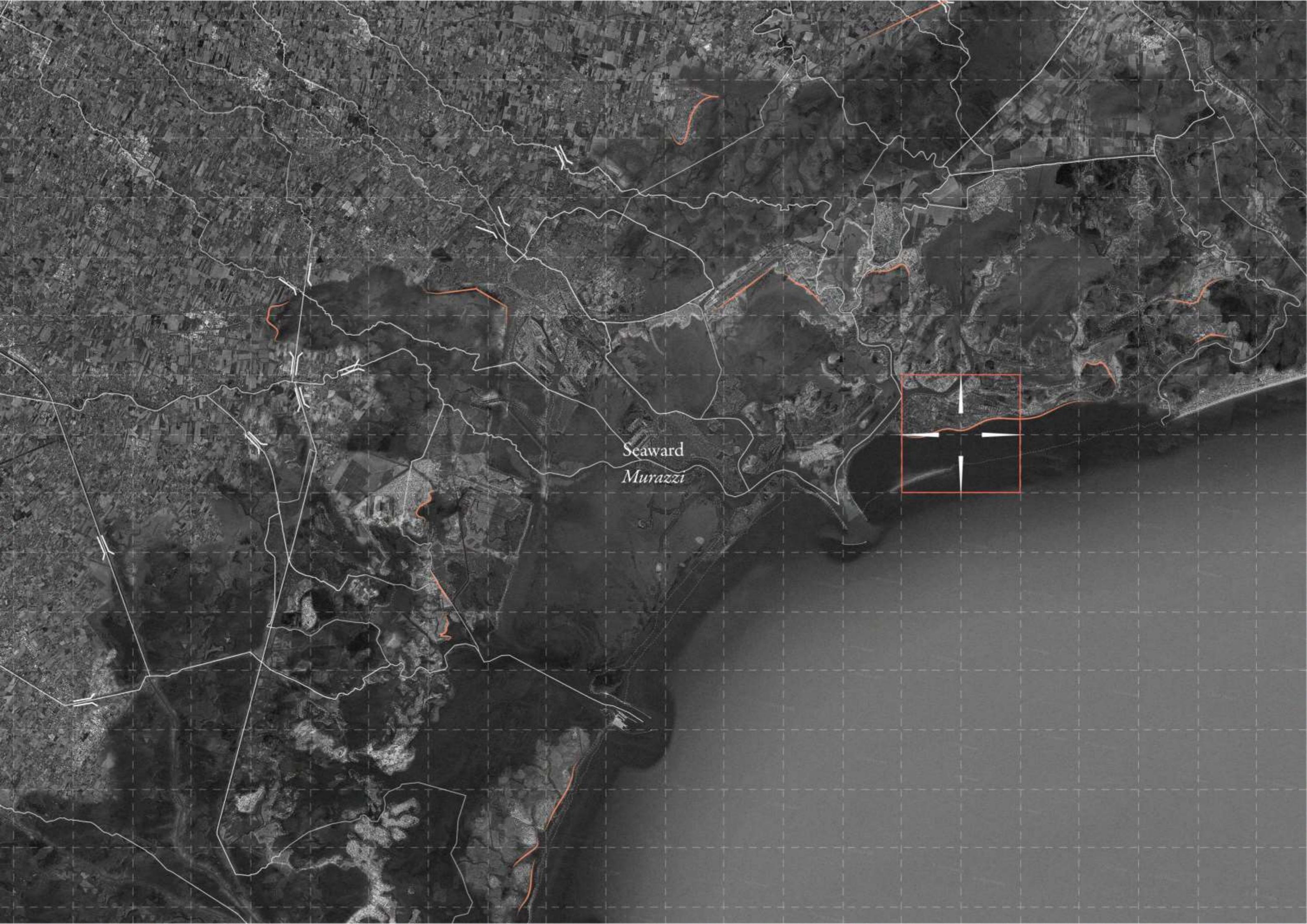


*Wall + Flow*



*Terraforming process*

Pali di Fondazione



Seaward  
*Murazzi*

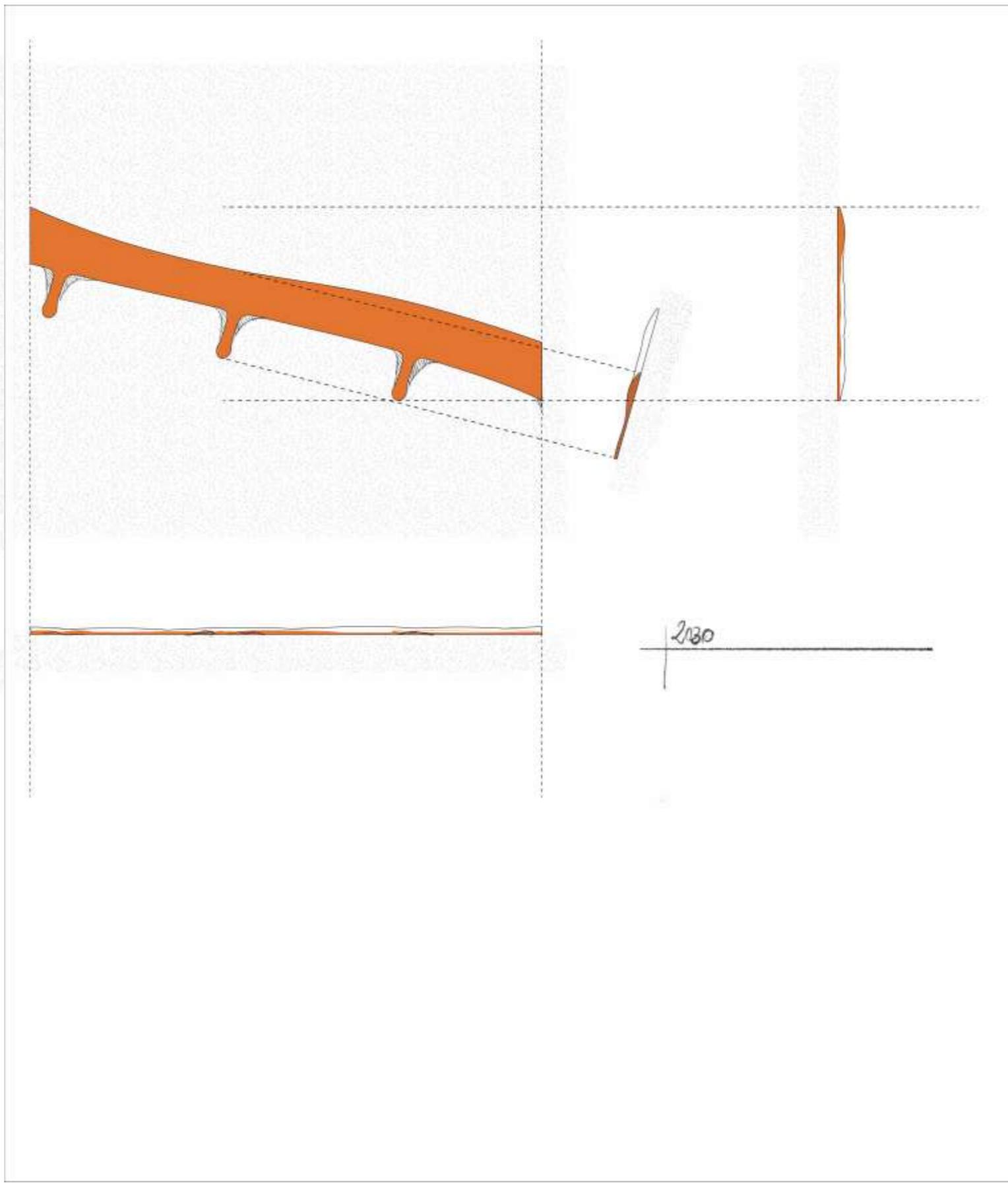
## Murazzi



0 250 500 m  
N

- Green areas
- Vineyards
- Urban system
- Buildings
- Palo di fondazione
- Water flow
- RSL projection 2100

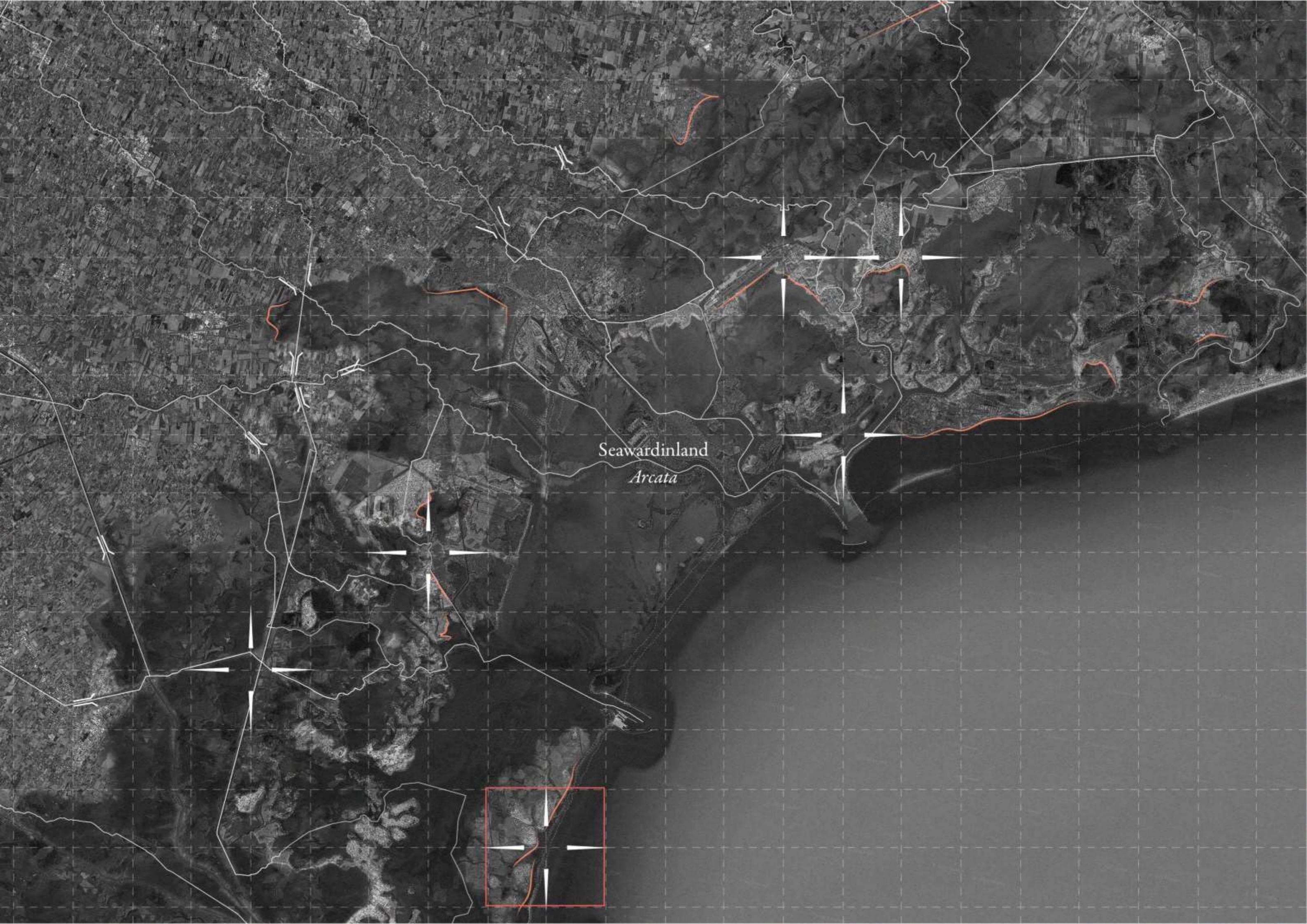
Murazzi  
*Adaptation*



Murazzi

*Maquette*



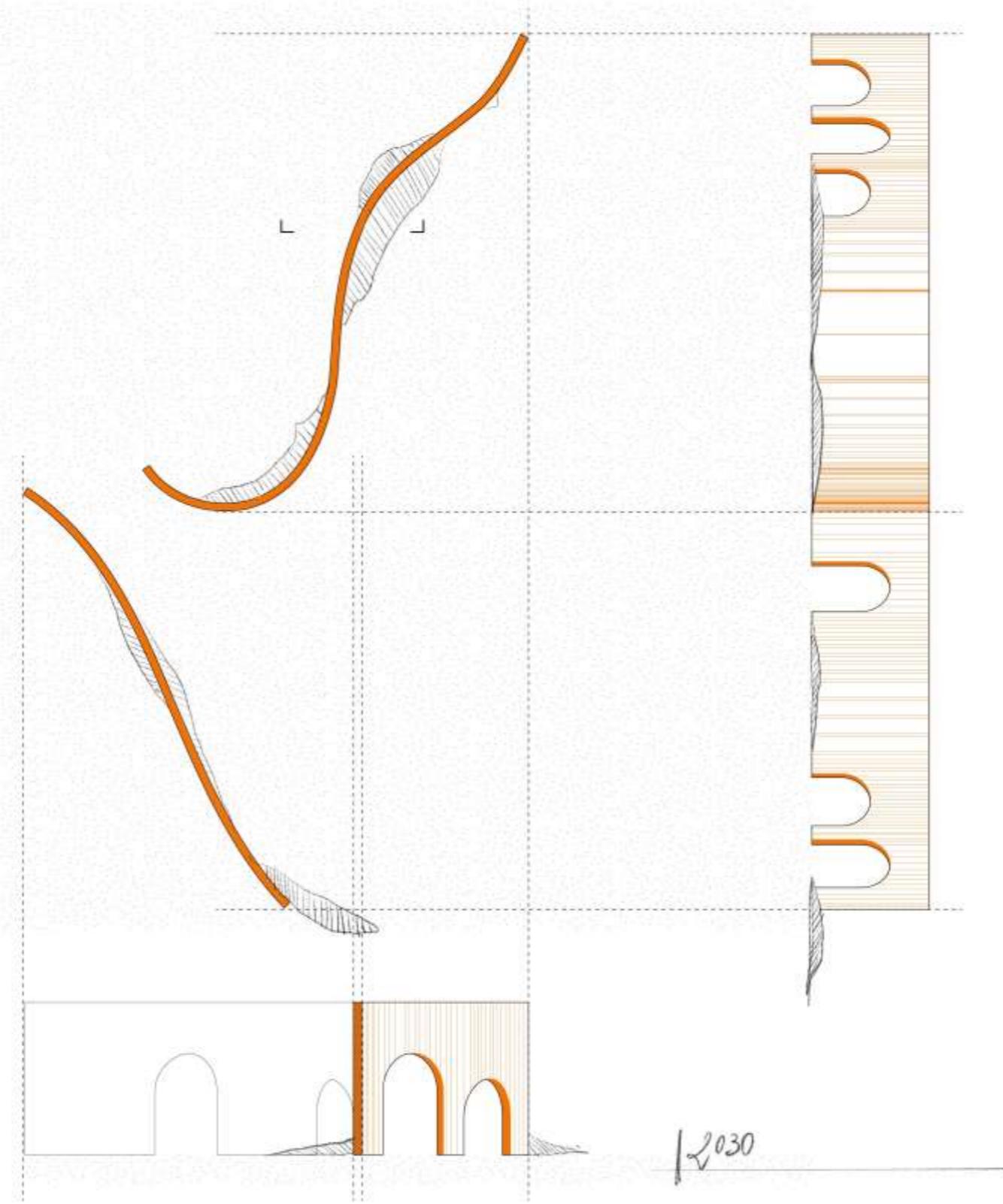


Arcata  
*New foundation*

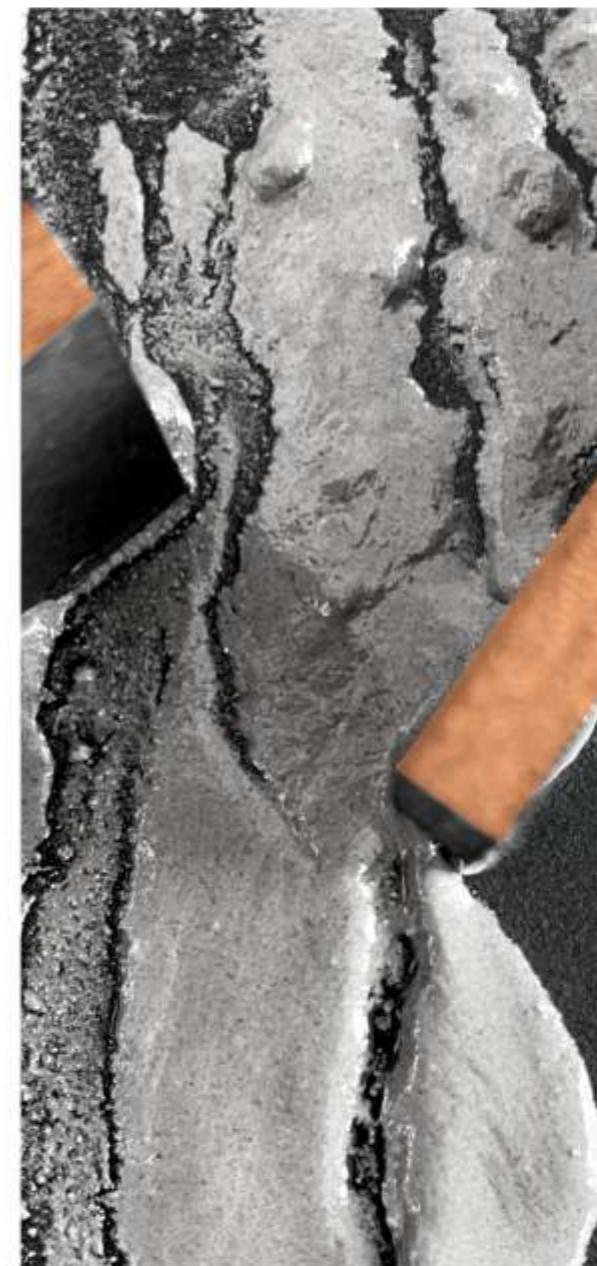


0 250 500 m N  
— Green areas  
--- Vineyards  
- - - Urban system  
==== Buildings

Arcata  
*Adaptation*



Arcata  
*Maquette*





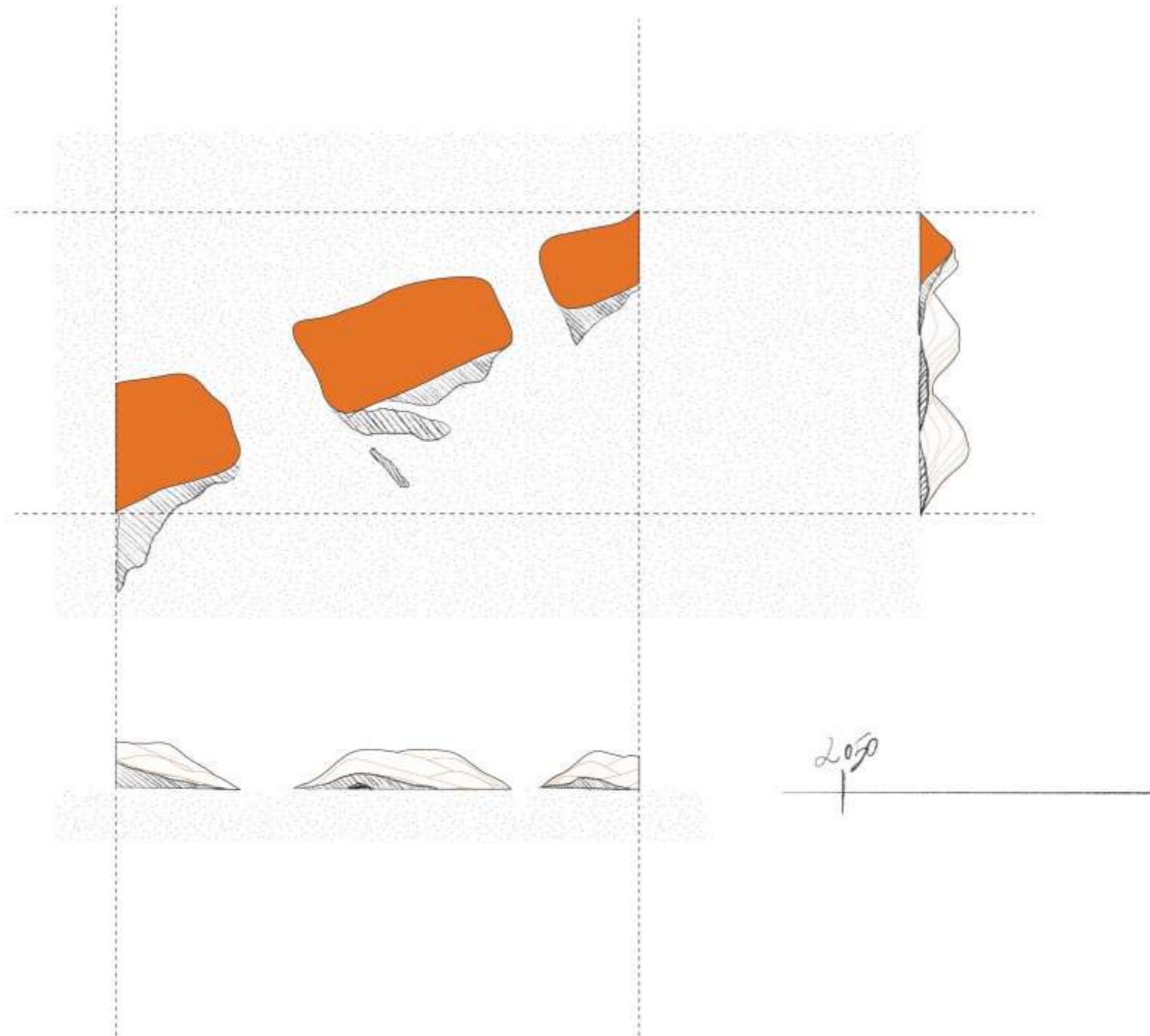
Inlandseaward  
*Argine*

Argine  
*Current situation*

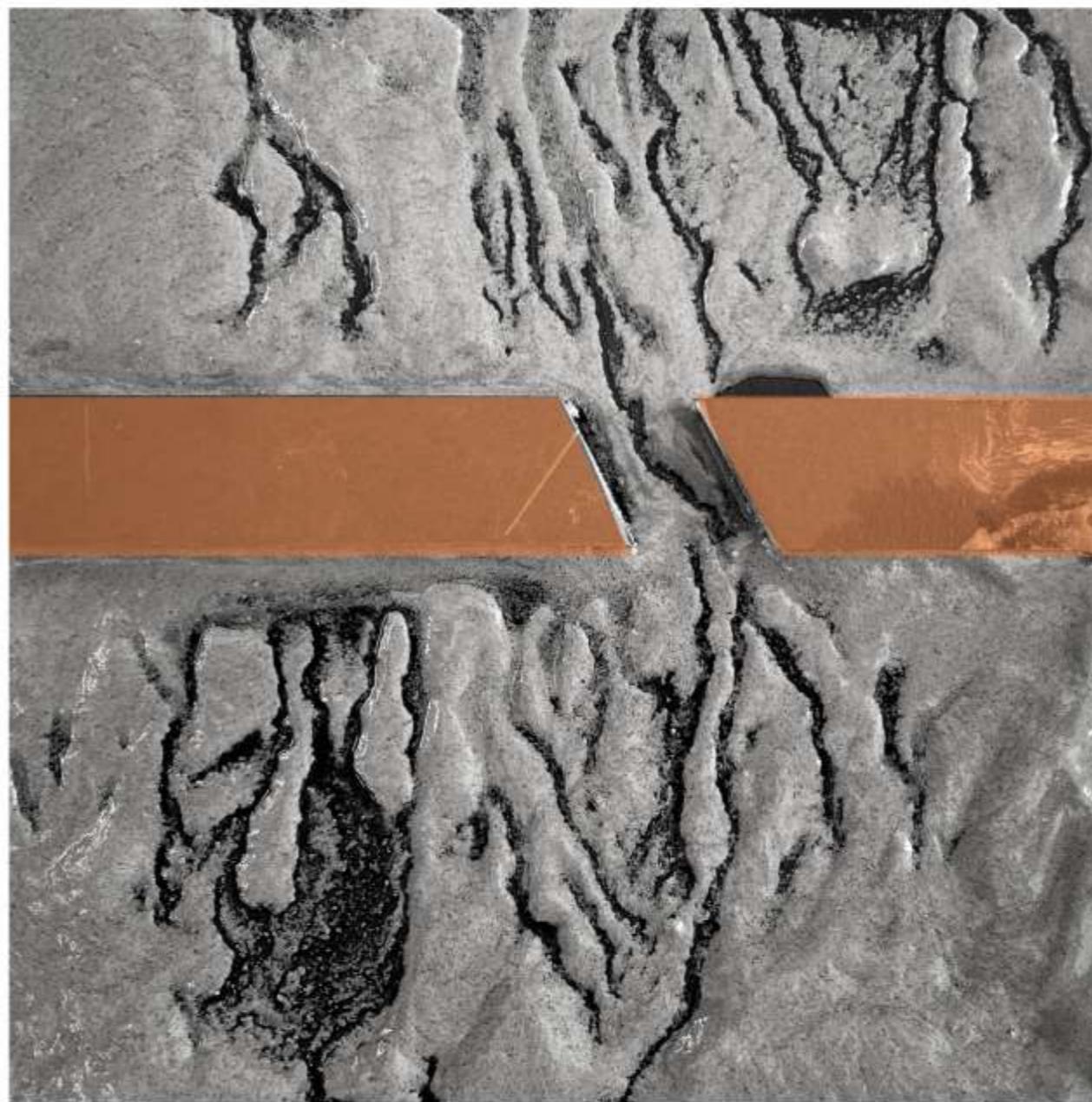


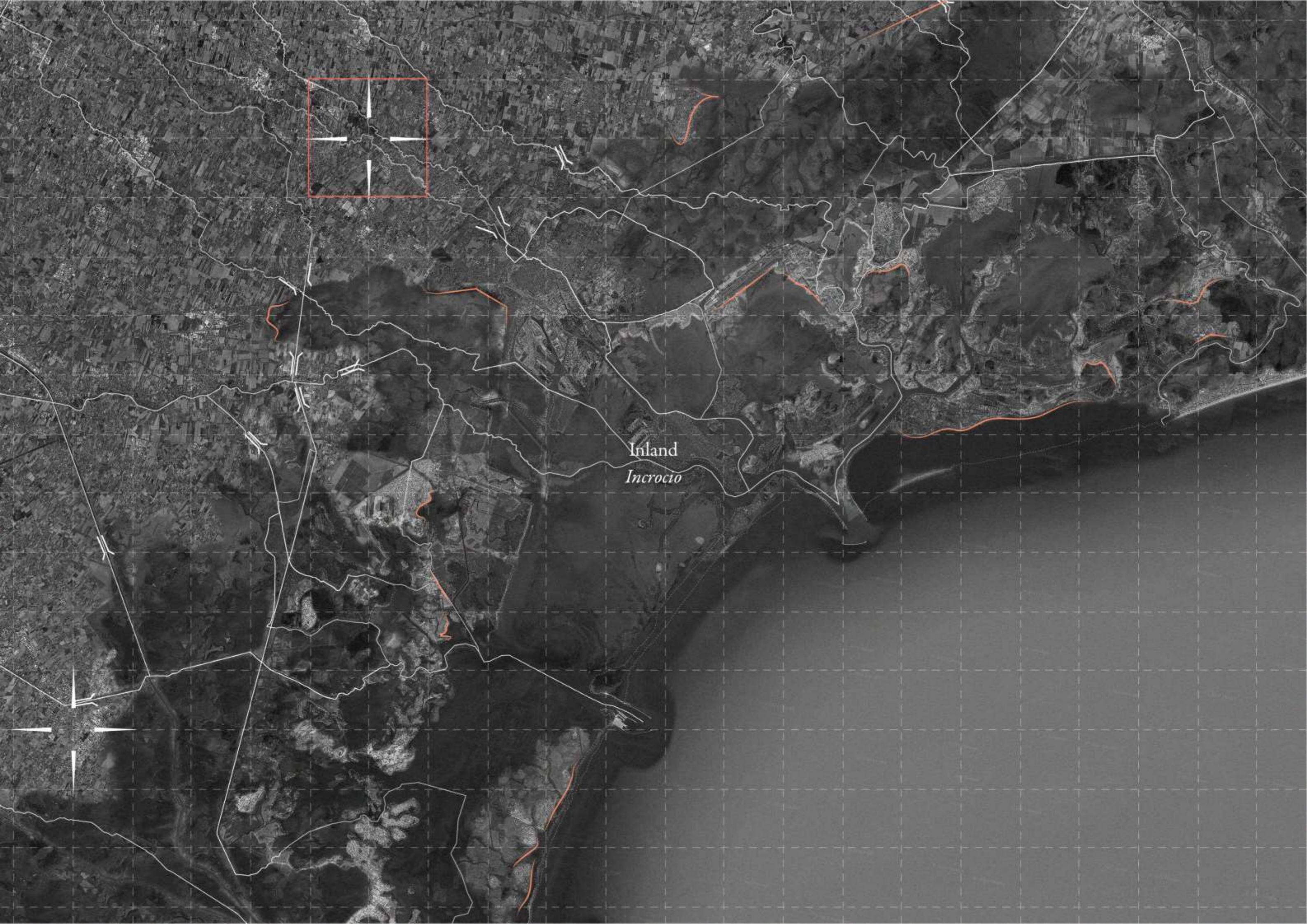
- Green areas
- Vineyards
- Urban system
- Buildings
- Palo di fondazione
- Water flow

Argine  
*Adaptation*



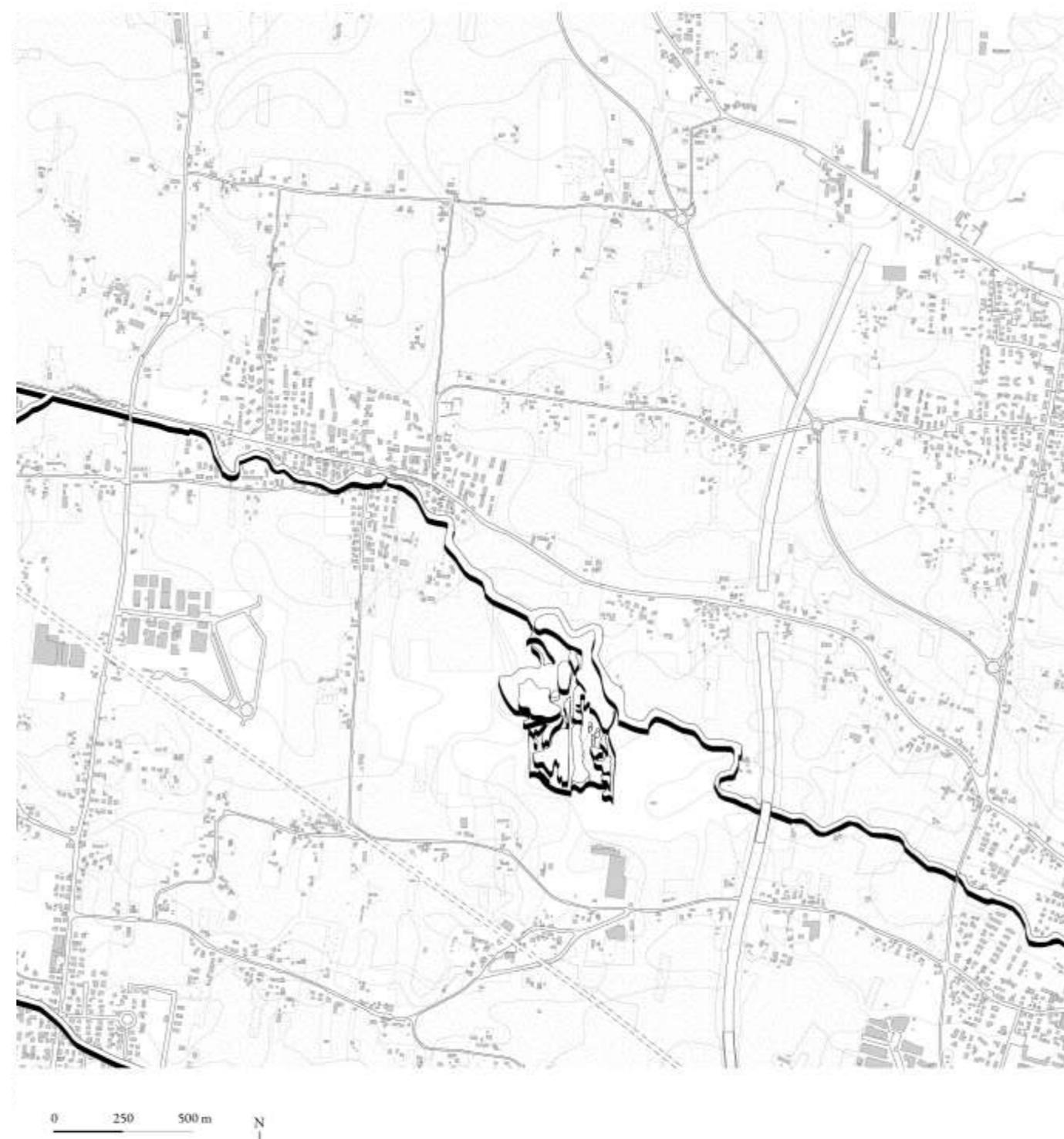
Argine  
*Maquette*





Inland  
*Incrocio*

Incrocio  
*New foundation*



— Green areas  
— Vineyards  
— Urban system  
— Buildings  
— Palo di fondazione  
— Water flow

Incrocio  
*Maquette*

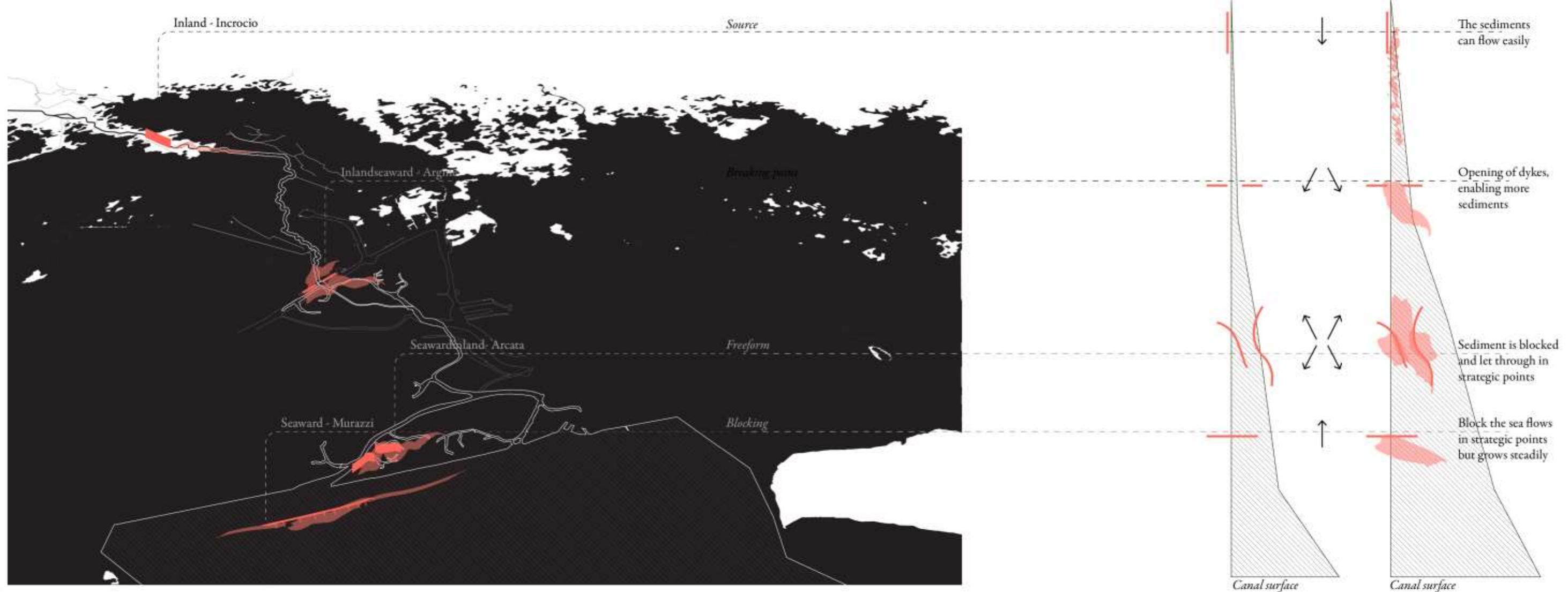


Territorial Foundation

## 2022 Condition



## 2100 Condition



2022

Seaward

Inland

2022

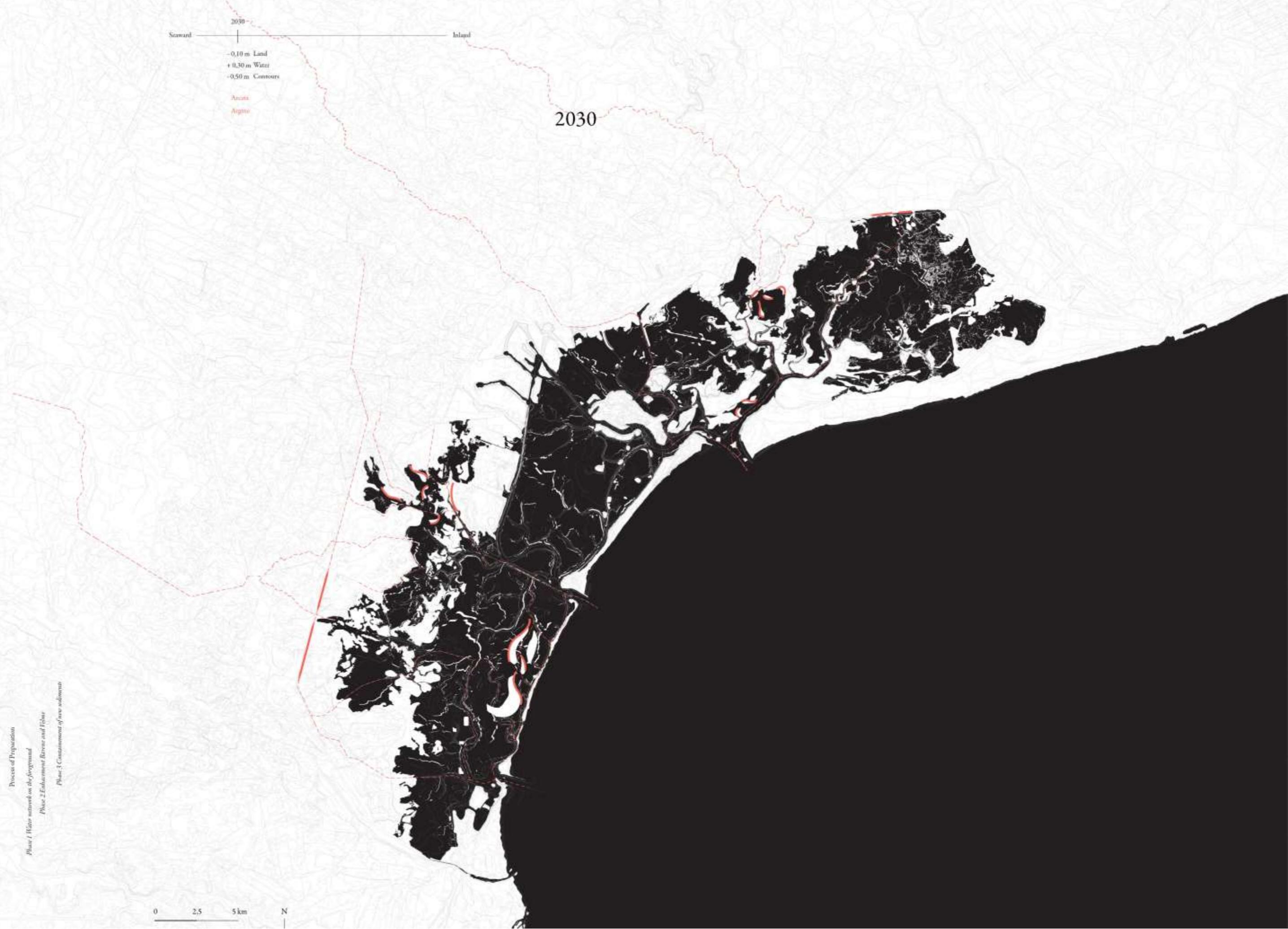


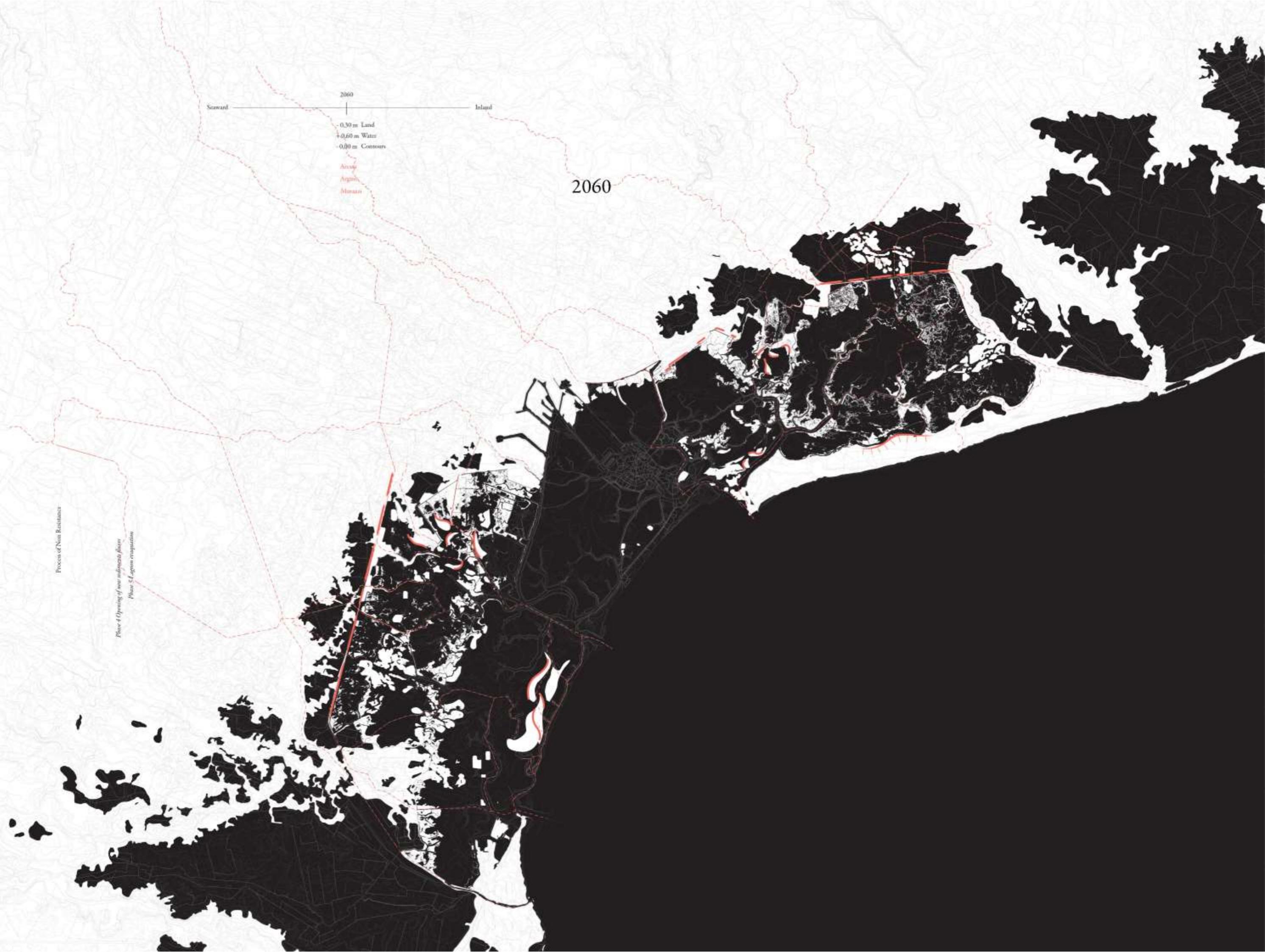
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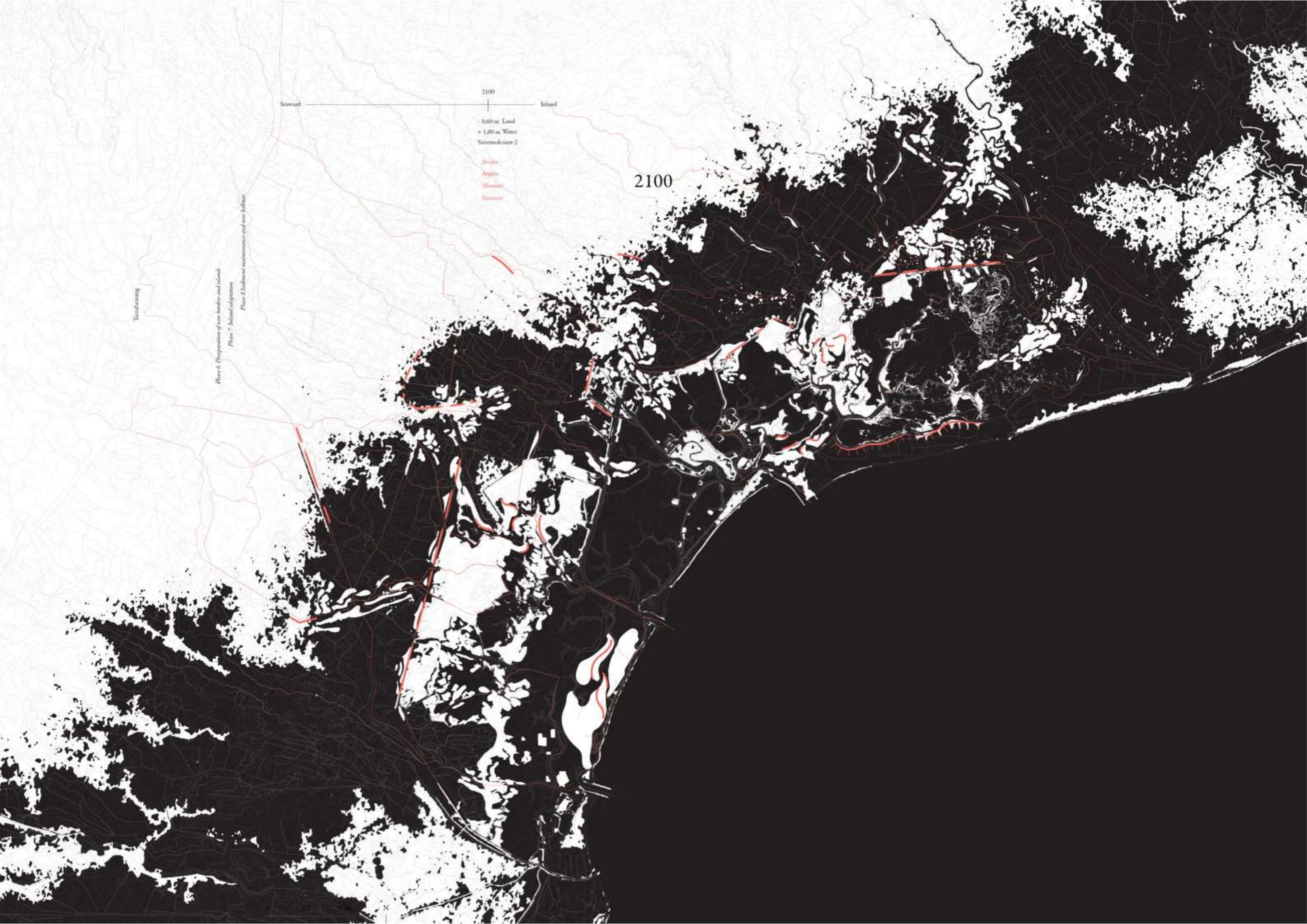
2.5

5 km

N

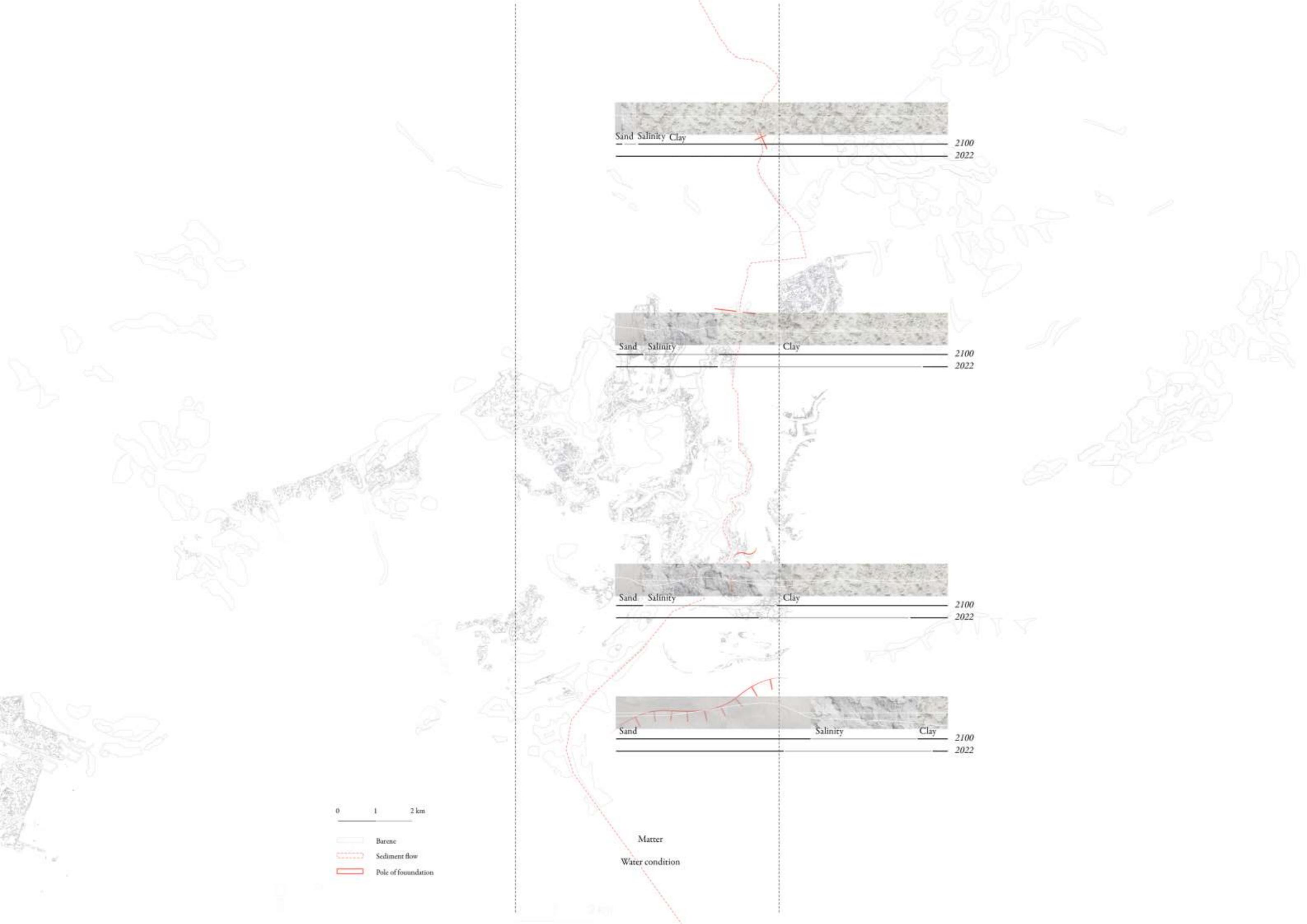




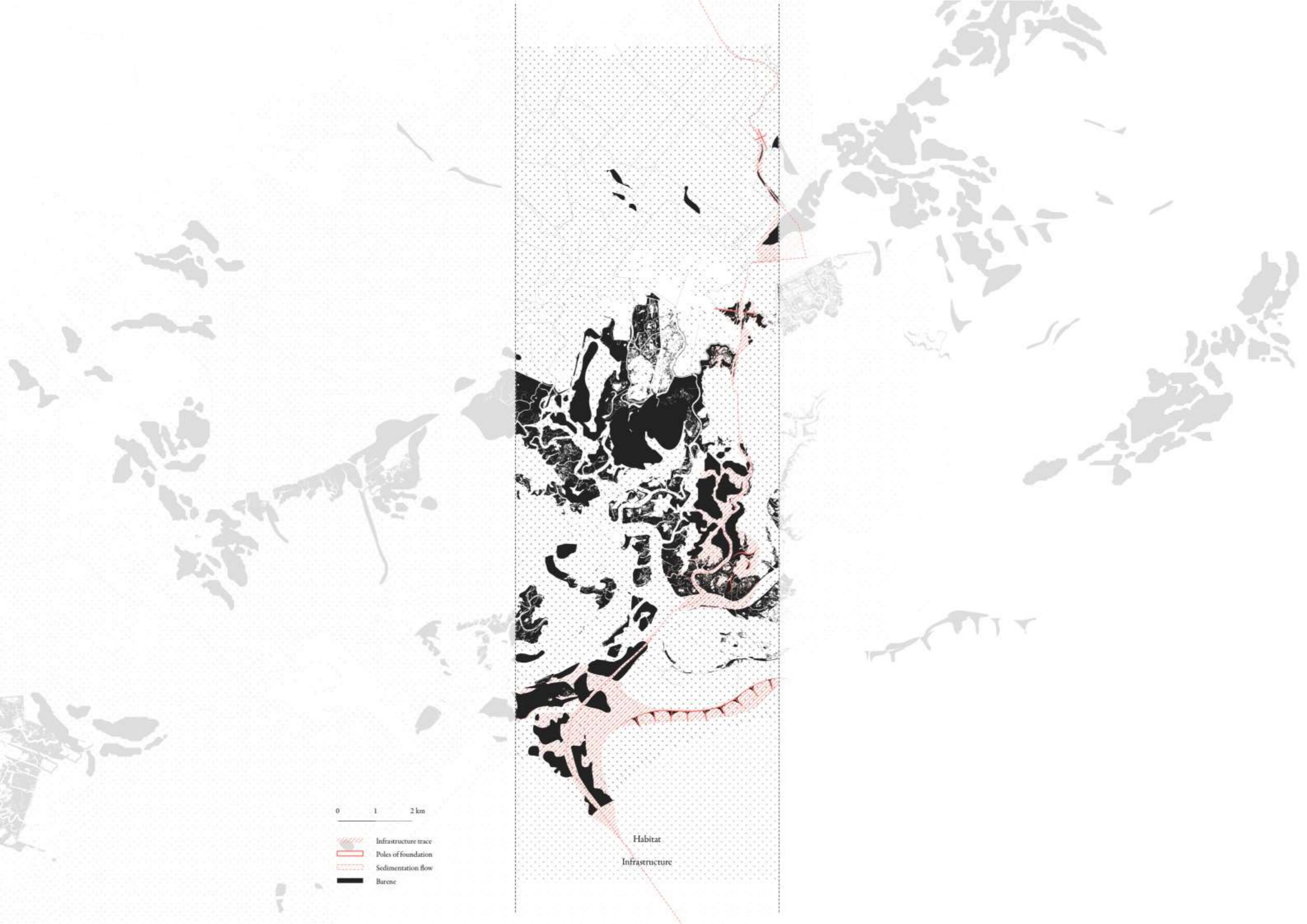


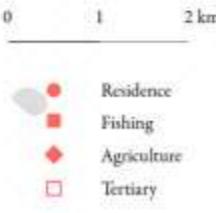
New foundation analysis

*Matter | Habitat | Topos | Geopolitics*









0 1 2 km





Re-Programming

Sense of Displacement



Human  
Experience



Adptation potential



Inland

Seaward



Inland

Seaward

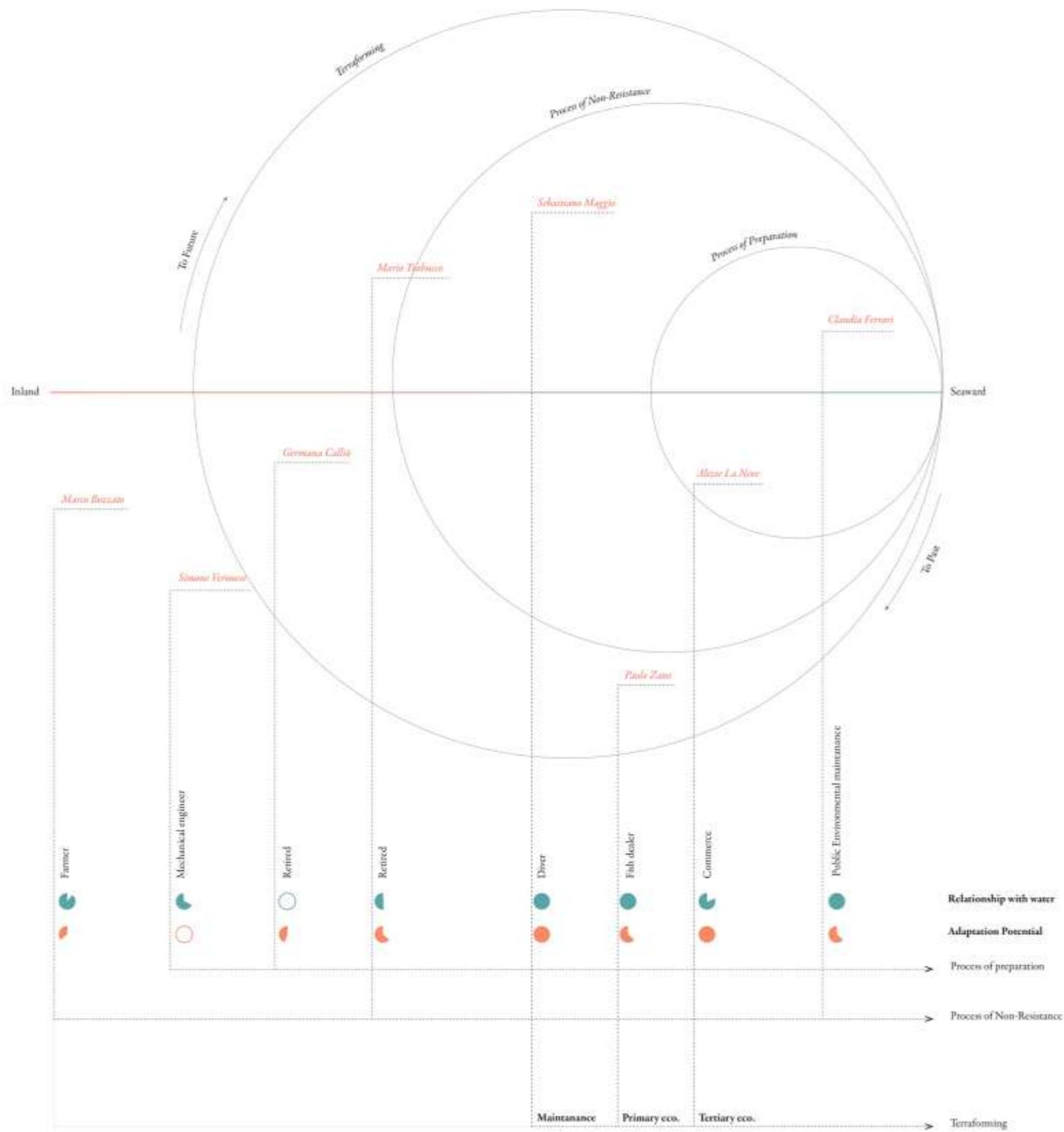
Incocio  
(Crossing)

Argine  
(Dyke)

Arcata  
(Arcade)

Murazzi  
(Stones)

## Adaptation potential



Murazzi



Arcata



Argine



## Incrocio



Thanks

Simone  
Alizee  
Paolo  
Mario  
Claudia  
Sebastiano  
Marco  
Germana and Roberta

Thank you!





