

YOFYROS

A River Beyond Banks

Yofyros. A River Beyond Banks.

Revealing and redefining Yofyros river landscape as a bridge between the identity of the place and people living with water.

Iraklion city. Crete.



Location Context



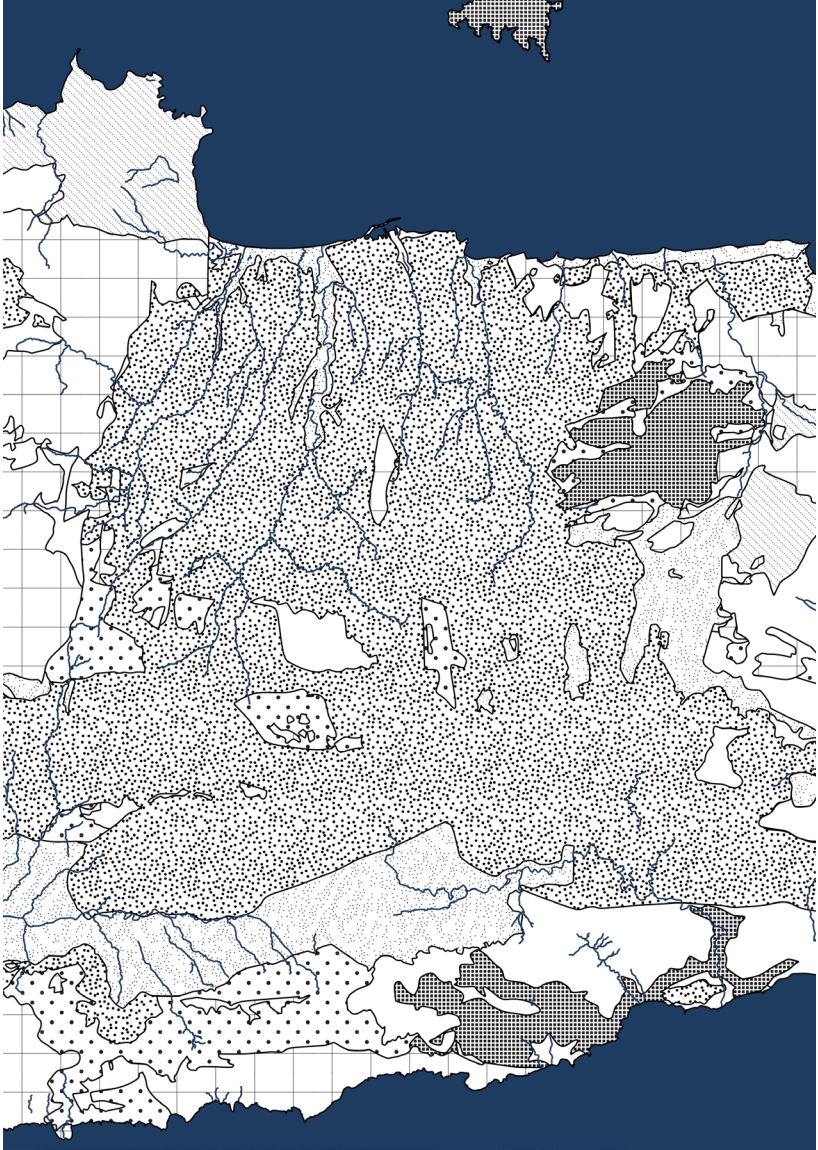
Source: A. Evans, The palace of Minos at Knossos, 3 Volumes, Biblo and Tannen, New York 1964



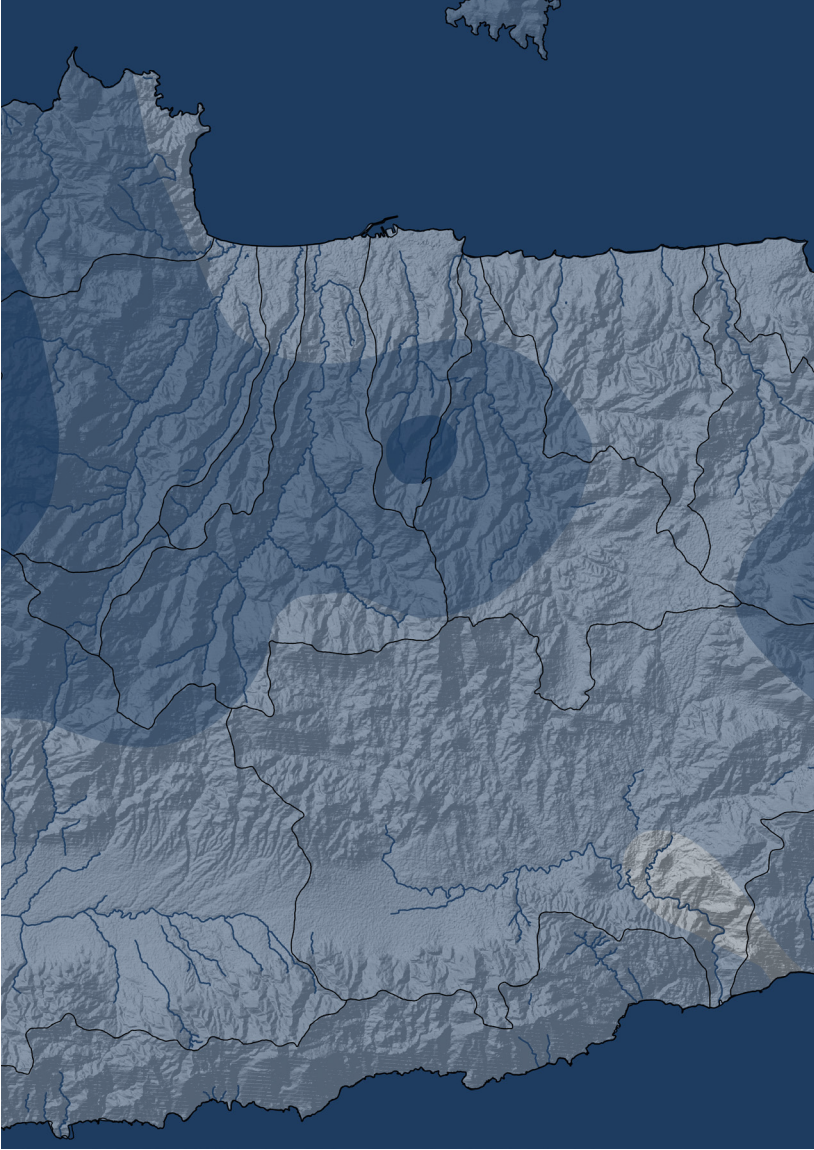
Crete: satellite image of the whole island. (NASA)

Source: [http://crete.classics.ox.ac.uk/U1s1/image.html?file=04.069.jpg&title=Crete:%20satellite%20image%20of%20the%20whole%20island.%20\(NASA\)&desc=Crete:%20satellite%20image%20of%20the%20whole%20island.%20\(NASA\).%20Sphakia%20lies%20in%20the%20SW%20of%20the%20island,%20directly%20of%20the%20hammer-head%20peninsula%20near%20Khania.%20The%20Samaria%20Gorge%20and%20the%20White%20Mountains%20\(capped%20by%20clouds\)%20are%20clearly%20visible.&w=500&h=322](http://crete.classics.ox.ac.uk/U1s1/image.html?file=04.069.jpg&title=Crete:%20satellite%20image%20of%20the%20whole%20island.%20(NASA)&desc=Crete:%20satellite%20image%20of%20the%20whole%20island.%20(NASA).%20Sphakia%20lies%20in%20the%20SW%20of%20the%20island,%20directly%20of%20the%20hammer-head%20peninsula%20near%20Khania.%20The%20Samaria%20Gorge%20and%20the%20White%20Mountains%20(capped%20by%20clouds)%20are%20clearly%20visible.&w=500&h=322) on 2/11/2020.

Location Context

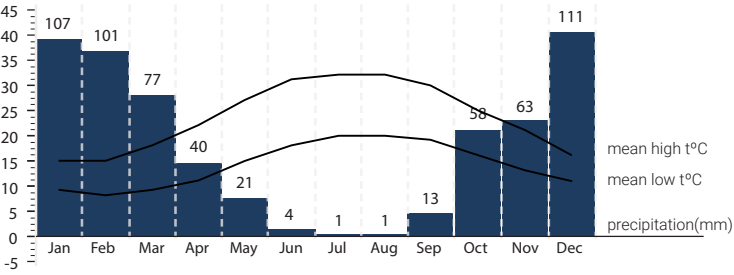


Geology



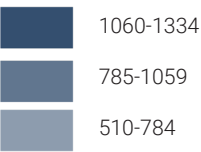
Precipitation

Figures: Source: Gaifyllia, 2020
Edit: Author, 2021



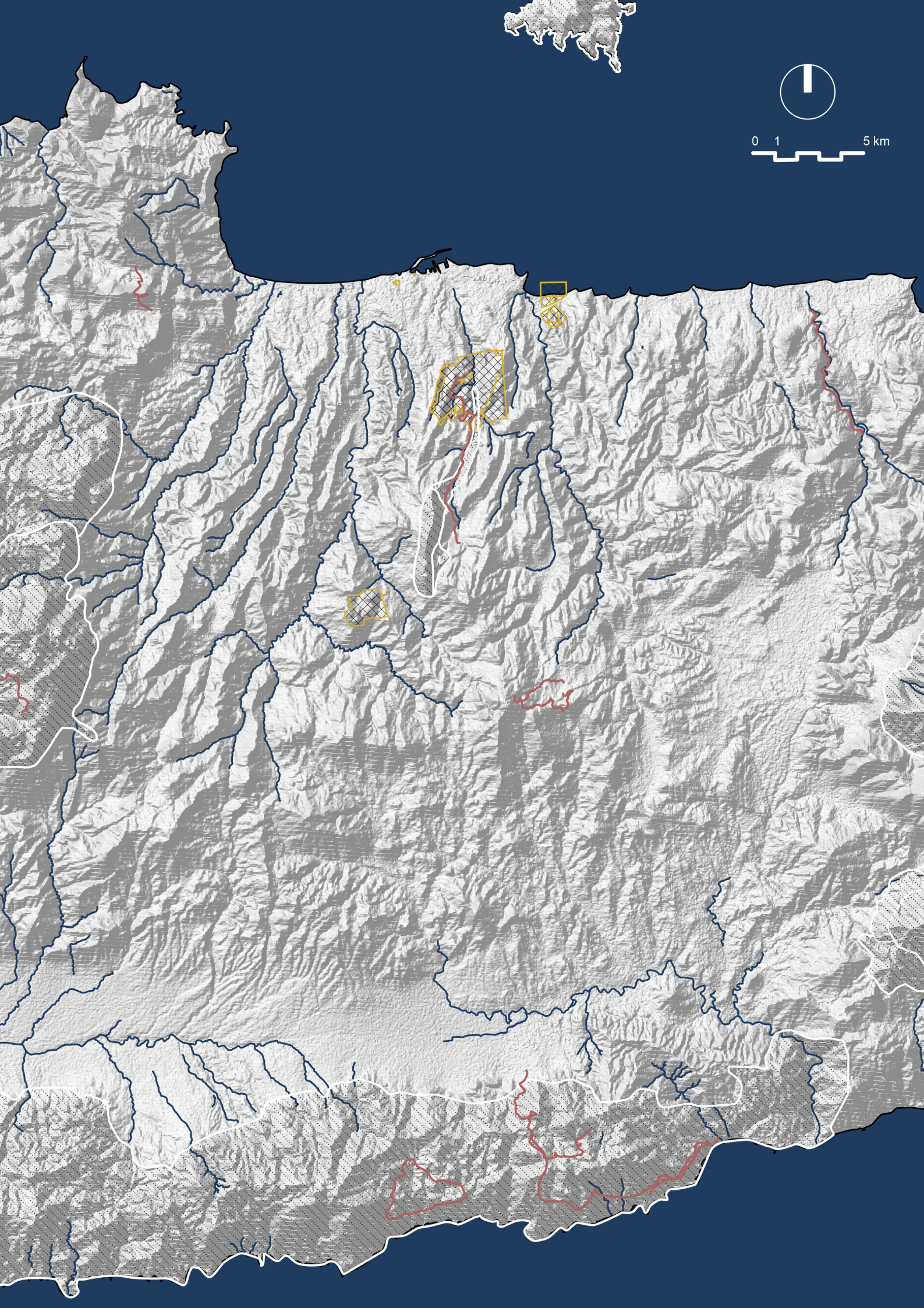
Climate of Iraklion

Annual Precipitation (mm)



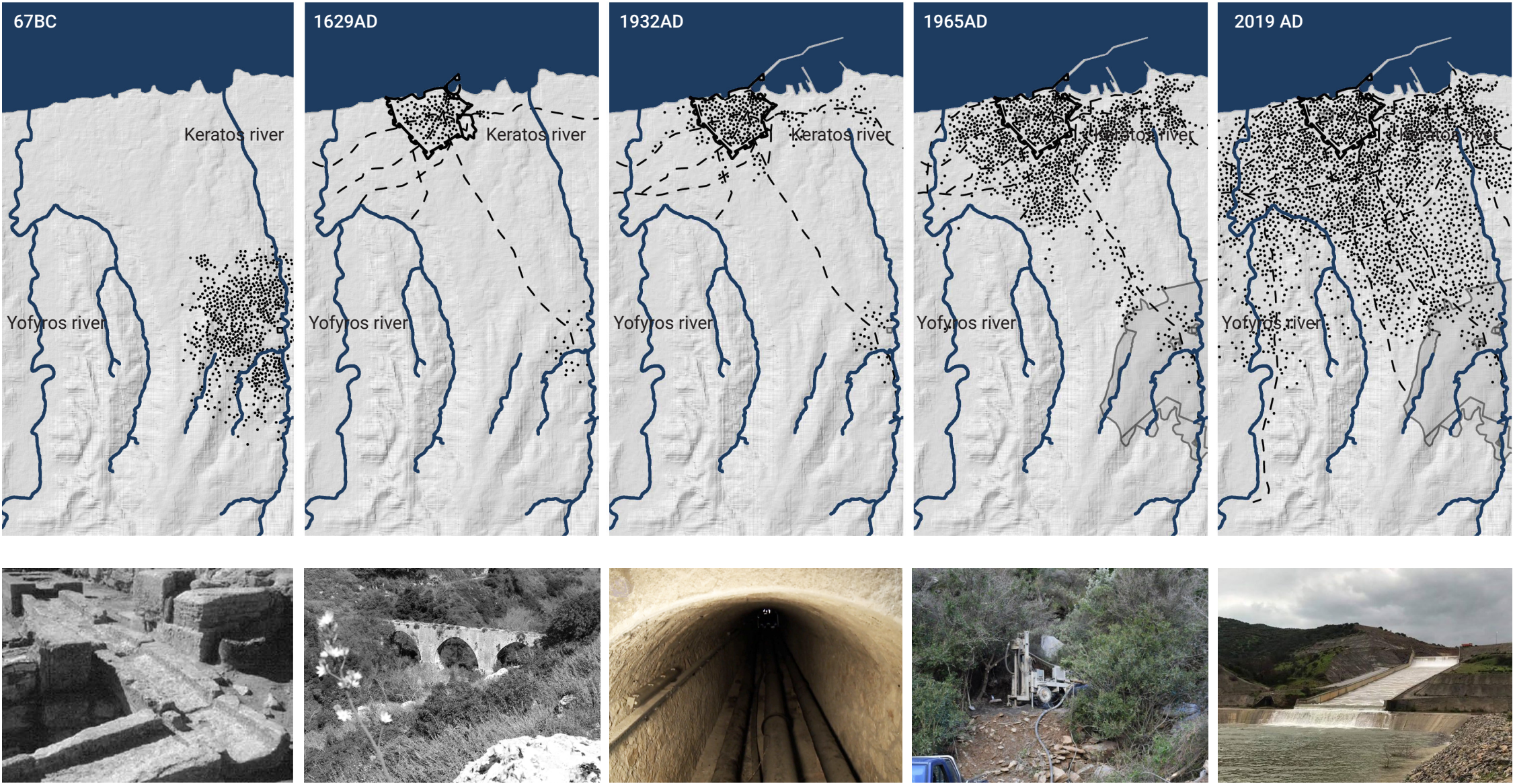
Hiking routes in archaeological and natura 2000 areas

Figure:
Sources: gis.heraklion.gr (Retrieved from <http://gis.heraklion.gr/sdi/> on 08/01/2021)
Mountaineering Association of Heraklion Retrieved from <https://www.eos-her.gr/category/routes/> on 26/07/2021
Drawing: Author, 2021



Problem Fields

Urban expansion



Top Drawing: author 2021
Information retrieved from: Vourliotis D. (2017). Heraklion, Crete. Result of Urban Intervention or Urban Inaction? [Ηράκλειο Κρήτης. Αποτέλεσμα Πολεοδομικής Παρέμβασης ή Πολεοδομικής Απραξίας] Athens: Graduation Thesis. National Technical University of Athens [Translated by the author]
Bottom left: D. Koutsoyiannis D., Zarkadoulas N. Angelakis A. N., Tchobanoglous G. (2008) Urban Water Management in Ancient Greece. Legacies and Lessons.
Bottom 2nd:Author, 2017
Bottom 3rd:Heraklion Arts & Culture, 2020. Documentary "The history of water in Chandax" retrieved from https://www.youtube.com/watch?v=ORDeKZR4-94&ab_channel=HeraklionArts%26Culture on 07/01/2021
Bottom 4th: Retrieved from <https://www.dimas-geotriseis.gr/geotriseis/kriti.php> on 01/11/2020
Bottom right: Retrieved from <https://www.intrakat.gr/water-supply-of-heraklion-and-agios-nikolaos-from-aposelemis-dam-reinforcement-works-of-aposelemi-dam-reservoir-from-Iassithi-plateau/> on 01/11/2020

INTRODUCTION_METHODODOLOGY_INTERPRETING_RESHAPING

Problem Fields

Flooding



Figures : Flood events (1985, 1994) in local newspapers. Source: archive of Vikelaia Library, Iraklion.



Flood event 2015 (news 24/7, 2015)
Retrieved from <https://www.news247.gr/koinonia/vivikes-plimmyres-sto-iraklio-toys-esozan-me-varkes-apo-tis-taratses.6319778.html>

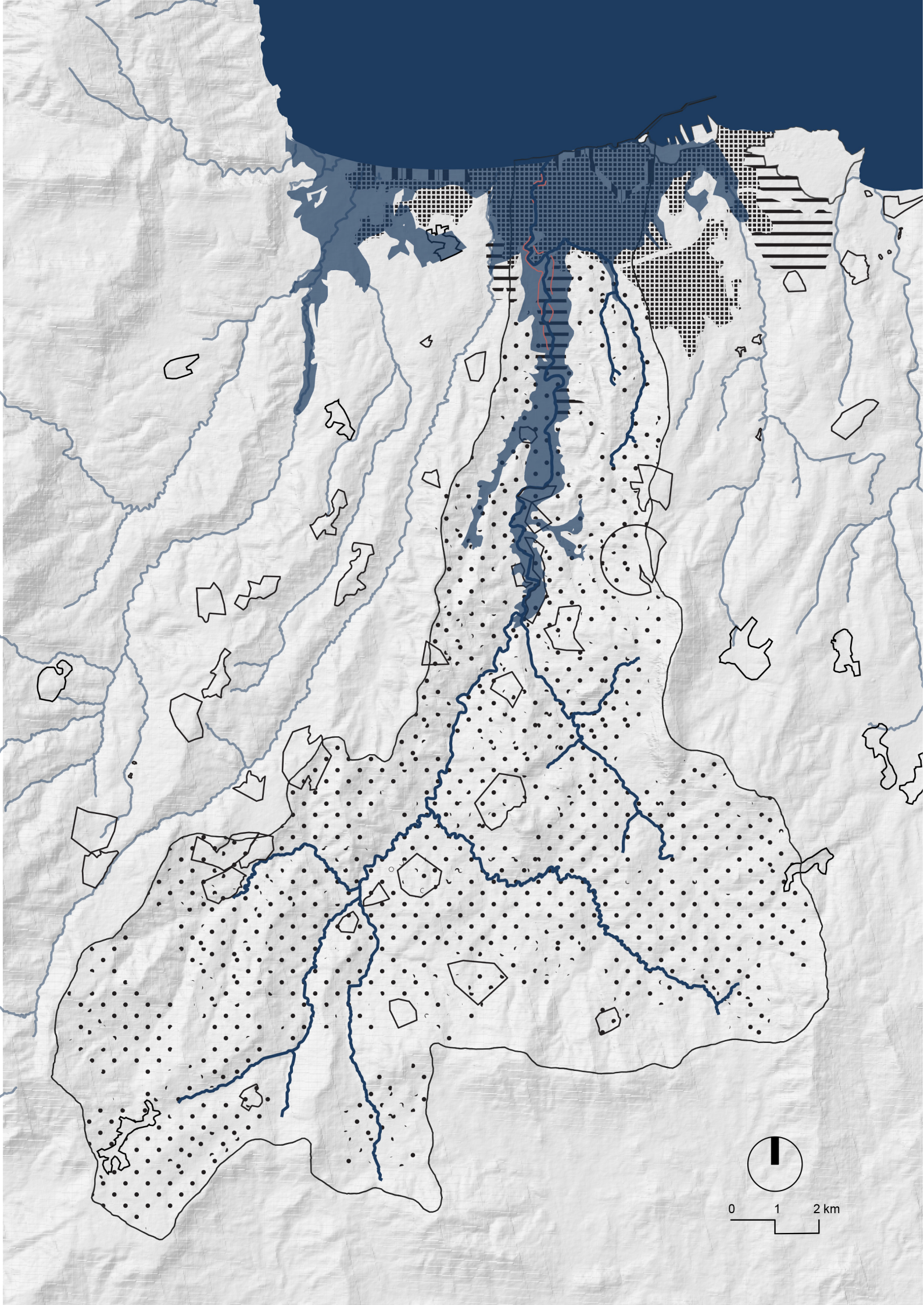
Problem Fields

Flooding

Drawing: Author, 2021

Flooding

-  flood risk from the sea and the river (geodata.gr)
-  agriculture (Corine, 2018)
-  industry (Corine, 2018)
-  urban tissue (Corine, 2018)
-  50-year flood source (OANAK)
-  villages (Corine, 2018)



Research Question

How can the landscape biography of Yofyros river be translated and activated into meaningful public spaces that encourage environmental awareness and commitment of the locals?

Approach

Landscape biography

From Space



Figure: Retrieved from <https://www.flickr.com/photos/133711122@no2/34158572061/sizes/h/> on 24/05/2021)

To Place



Figure: Prefecture of Iraklion, 1927, filling the urns with water, photographer Nelly's (source: Ο Αγώνας της Κρήτης (2015) Οι ζωές των ανθρώπων της παλιάς Κρήτης όπως δεν την έχετε ξαναδεί μέσα από σπάνιο φωτογραφικό υλικό | Φωτός Retrieved from <https://agonaskritis.gr/oi-zwes-twn-anthropwn-tis-palias-kritis/> on 30_08_2021)



Top figure: Messara 1939, harvesting. Photographer Nelly's (source: Ο Αγώνας της Κρήτης (2015) Οι ζωές των ανθρώπων της παλιάς Κρήτης όπως δεν την έχετε ξαναδεί μέσα από σπάνιο φωτογραφικό υλικό | Φωτός Retrieved from <https://agonaskritis.gr/oi-zwes-twn-anthropwn-tis-palias-kritis/> on 30_08_2021)

Bottom figure: Crete, 1927. Photographer Nelly's (source: Ο Αγώνας της Κρήτης (2015) Οι ζωές των ανθρώπων της παλιάς Κρήτης όπως δεν την έχετε ξαναδεί μέσα από σπάνιο φωτογραφικό υλικό | Φωτός Retrieved from <https://agonaskritis.gr/oi-zwes-twn-anthropwn-tis-palias-kritis/> on 30_08_2021)

INTRODUCTION_METHODODOLOGY_INTERPRETING_RESHAPING

Approach

Landscape biography



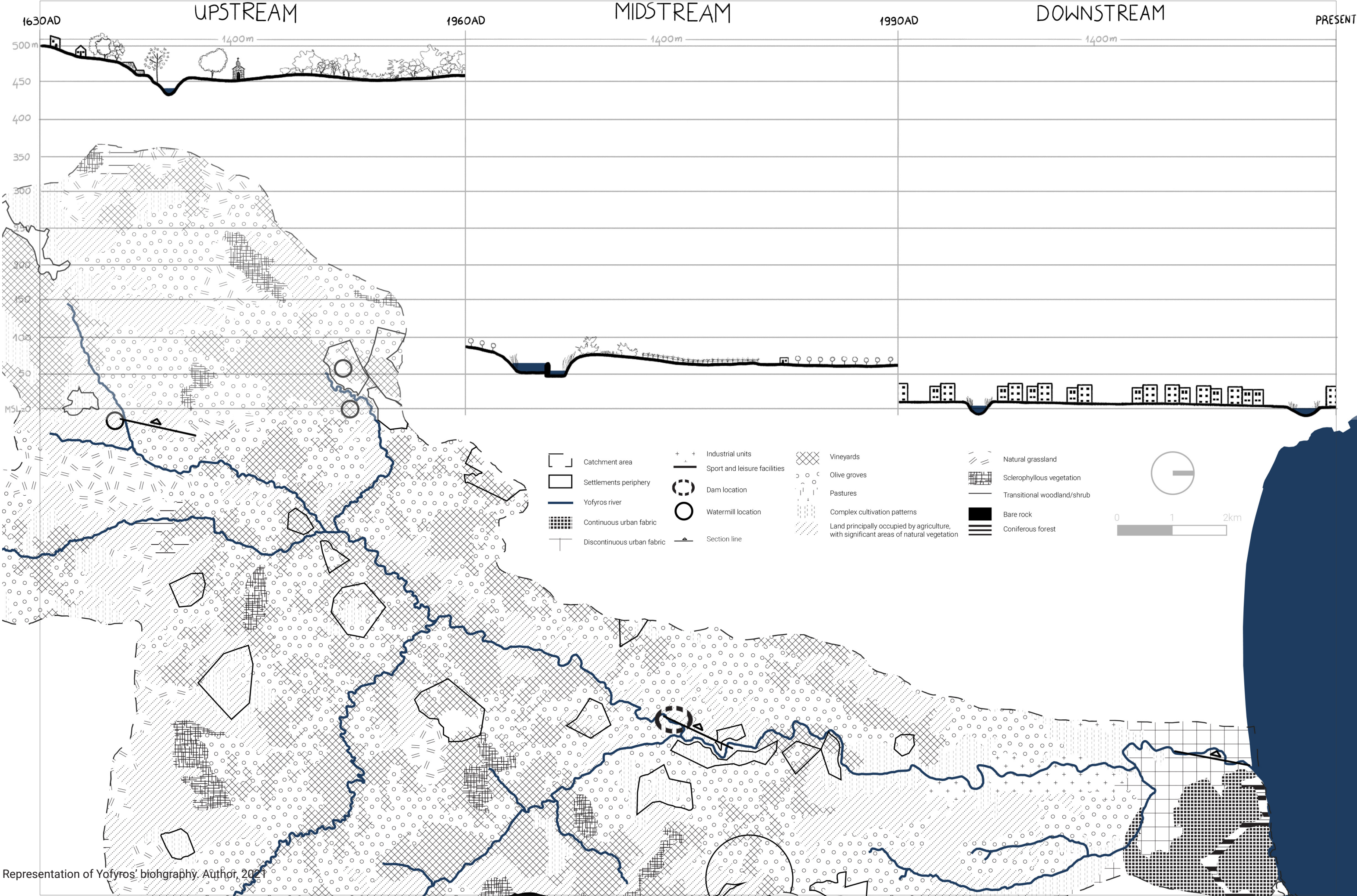
10th/17th Century
(Photograph: author, 2021)



1960-1993
(Image: Retrieved from https://www.youtube.com/watch?v=Xn4i_D5DLPE&ab_channel=Eftixis-Sartzetakis on 05/01/2021)

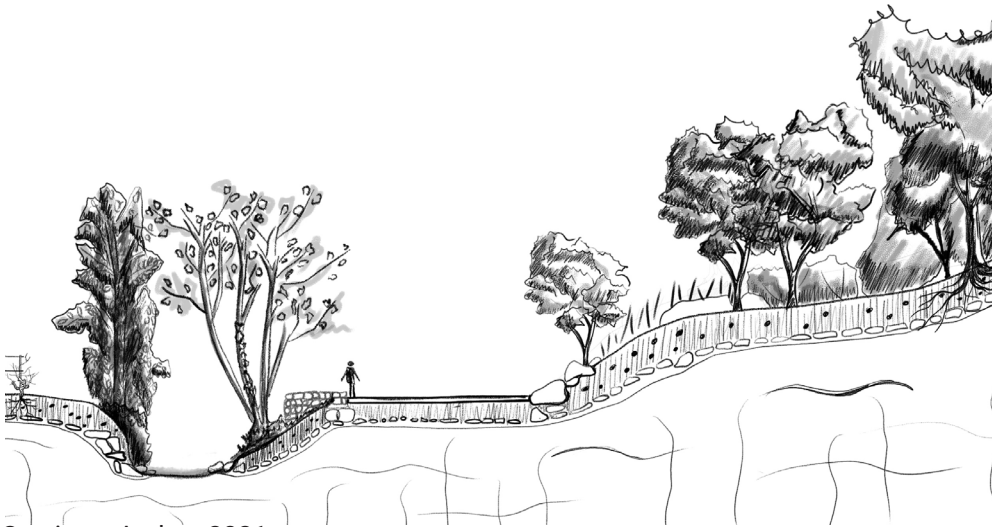


1994
(Photograph: Newspaper "Η αλληγή", 14/01/1994. Archive provided by the Vikelaia library, Iraklion, 2021)

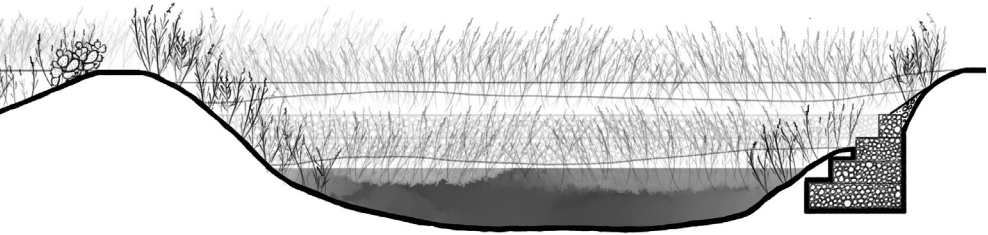
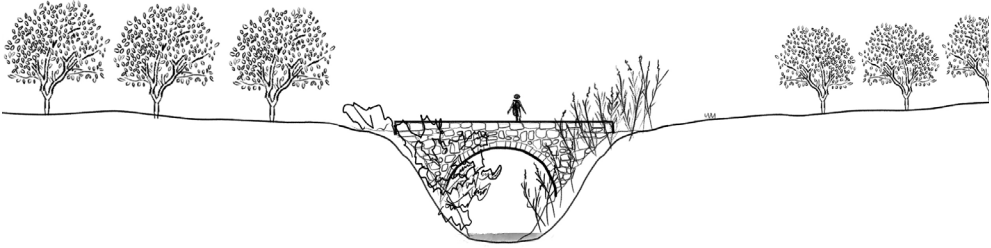


Approach

Landscape biography



Sections: Author, 2021



maquis vegetation on the slope behind the watermill (author, 2021)



maquis and brushwood spotted in a rock midstream (author, 2021)



riverside vegetation upstream (author, 2021)



riverside vegetation midstream (author, 2021)

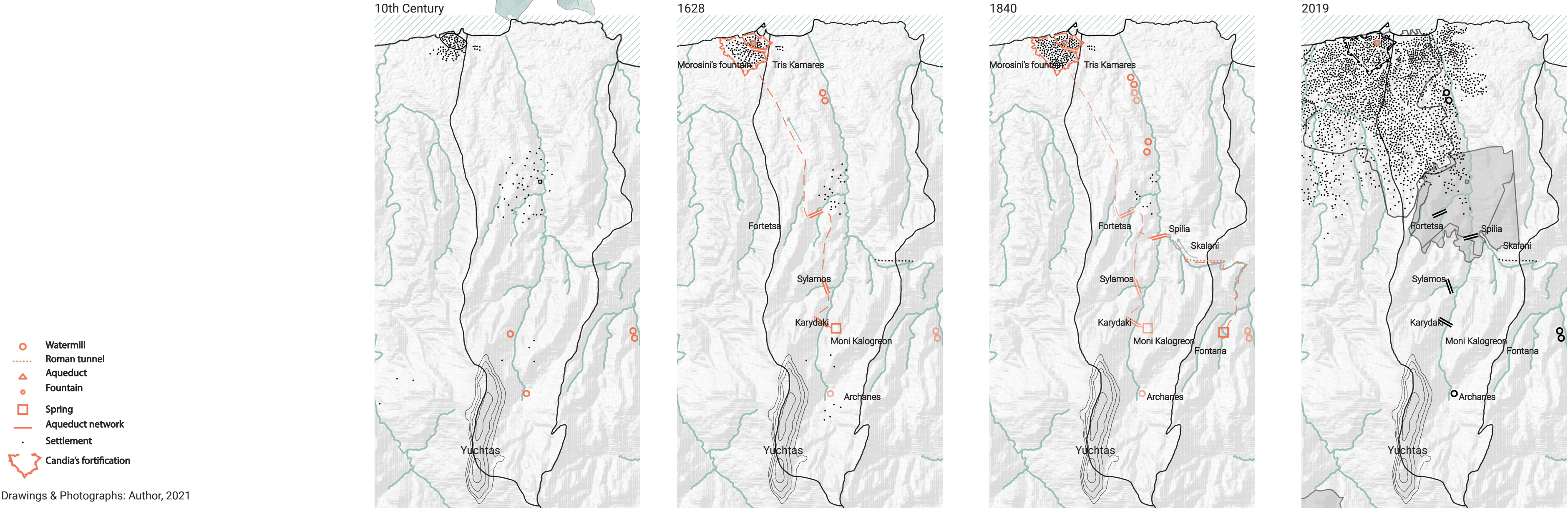


riverside vegetation downstream (Opuntia ficus-indica (L.) Mill) (author, 2021)



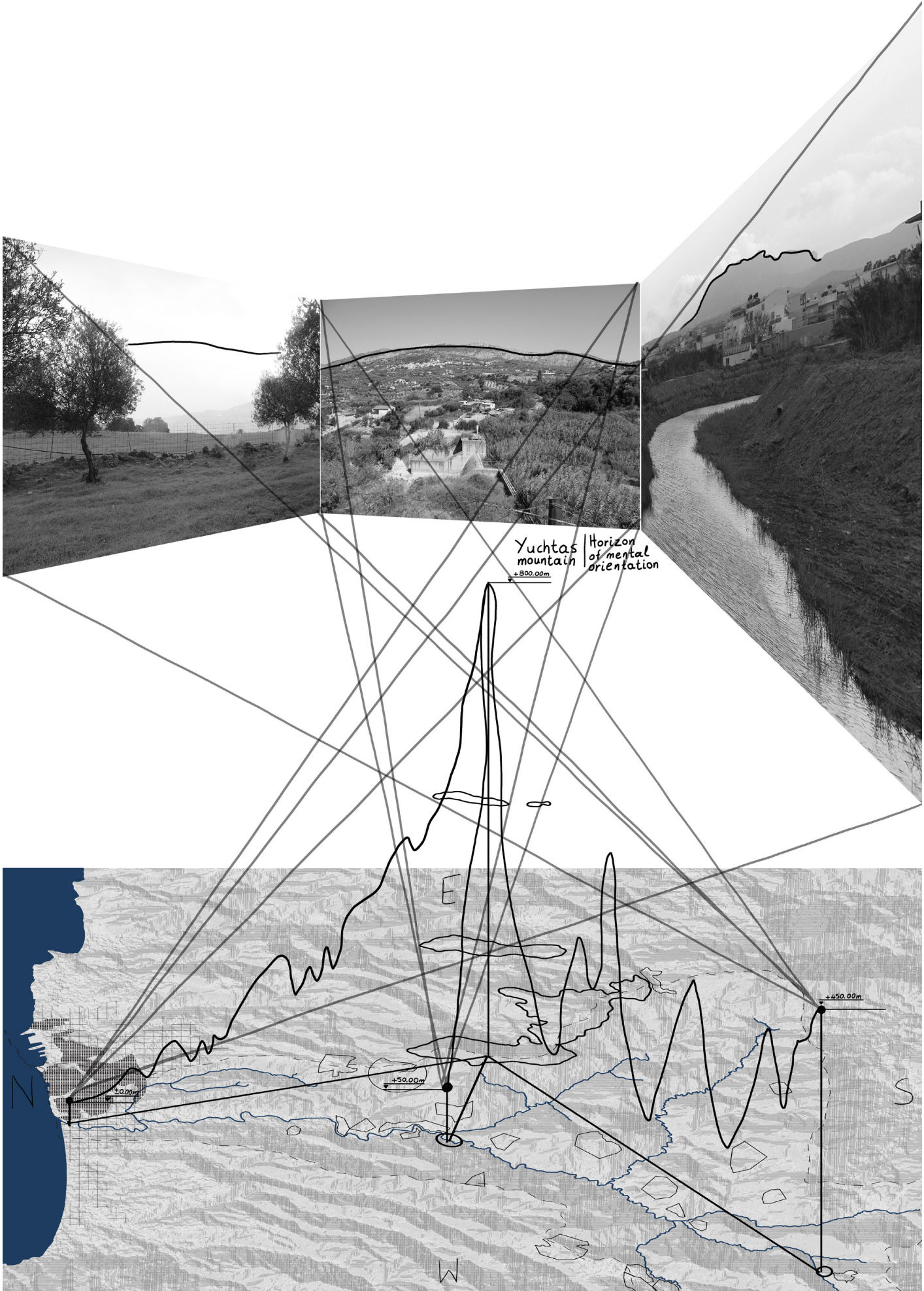
Approach

Site specificity



Approach

Site specificity

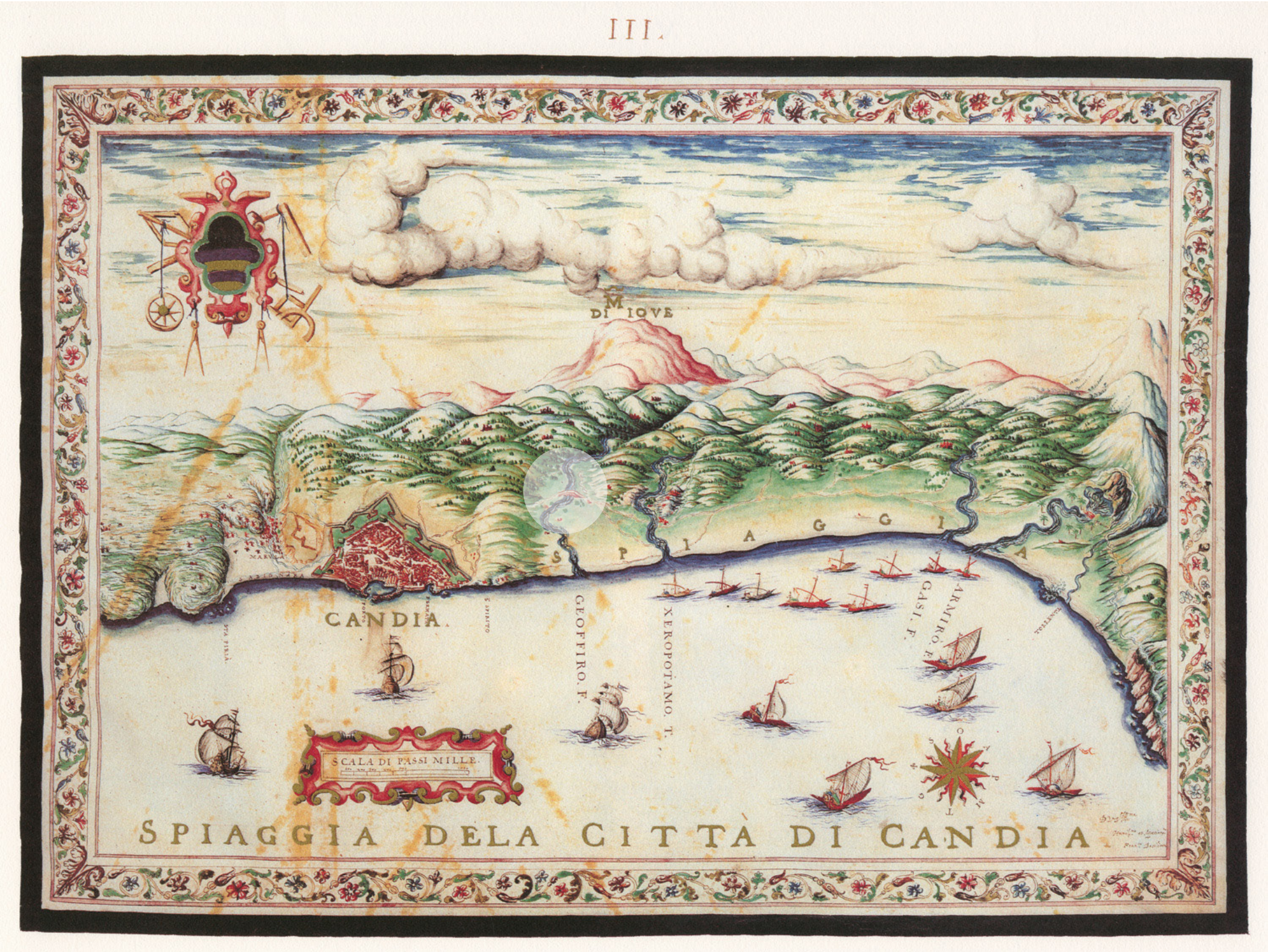


Approach

Conceptual & analytical framework



YOFYROS < γιοφύρι (gr)=bridge



Candia and the beach. A masonry bridge links the two edges of Yofyros river. "Il Regno di Candia", 1636-1638.
Retrieved from <https://el.travelogues.gr/item.php?view=50651> on 11/05/2021

Approach

Conceptual & analytical framework

Bridge as a spatial connection



Bridges of Yofyros river

Photographs: author, 2021

Approach

Conceptual & analytical framework

Bridge as a mental connection



Land Art Kouji Ohno (Japan) - “In the mist”

Looking into the void from different perspectives

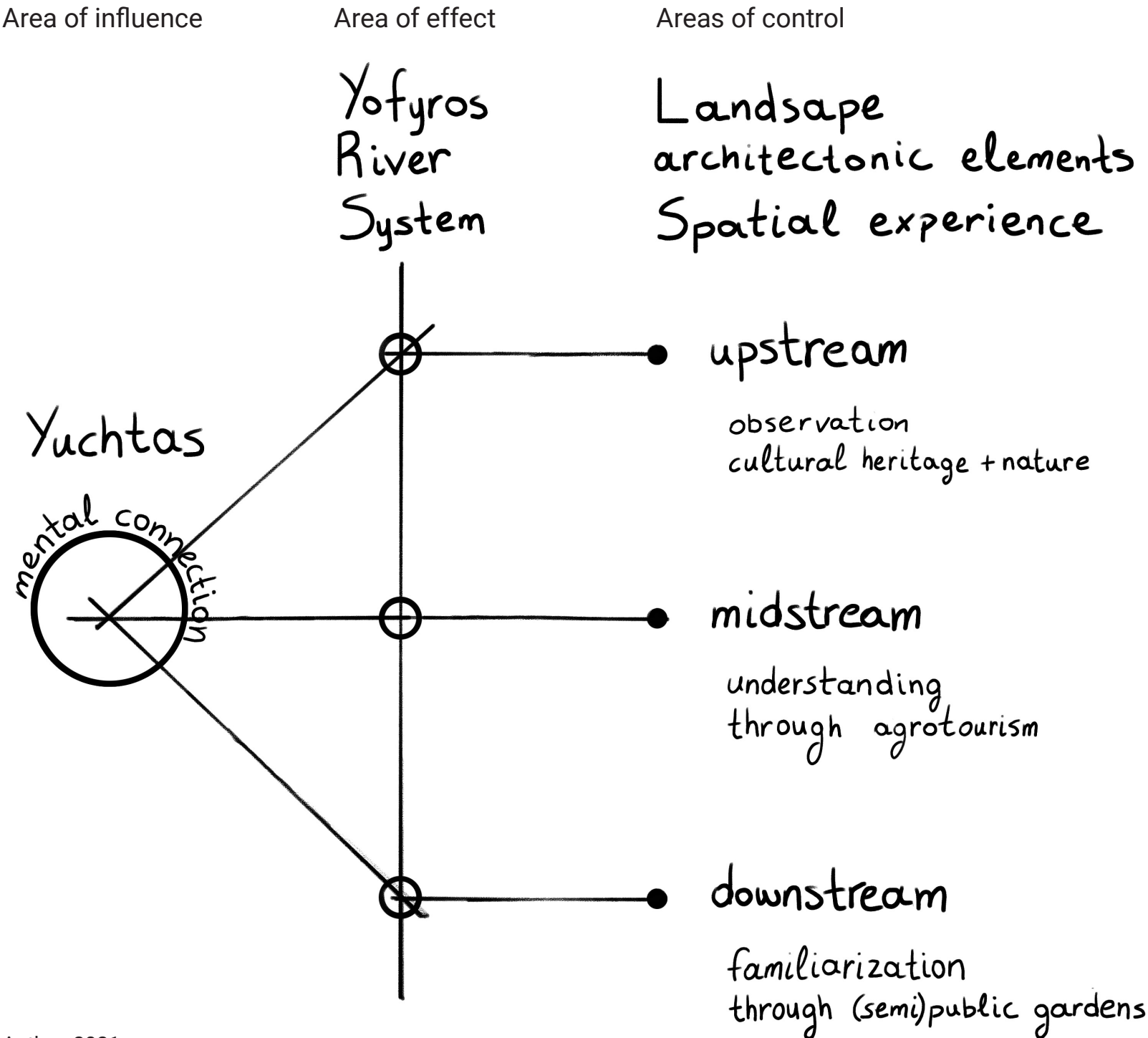


Author, 2021

Approach

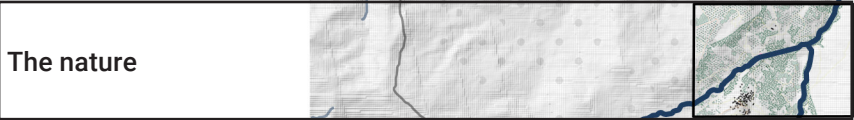
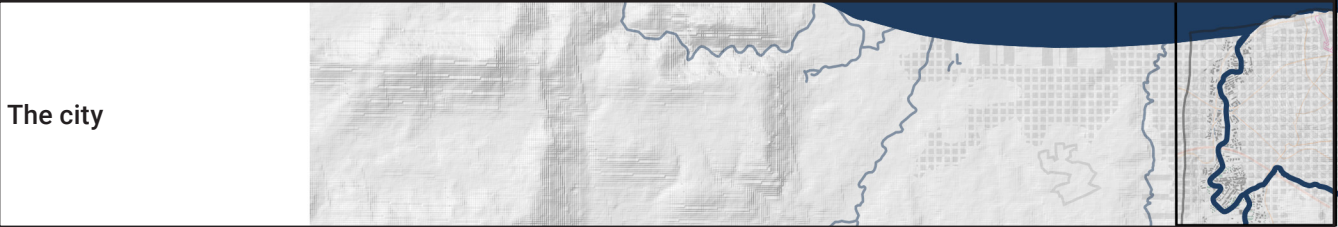
Elaborating the approaches

BRIDGING



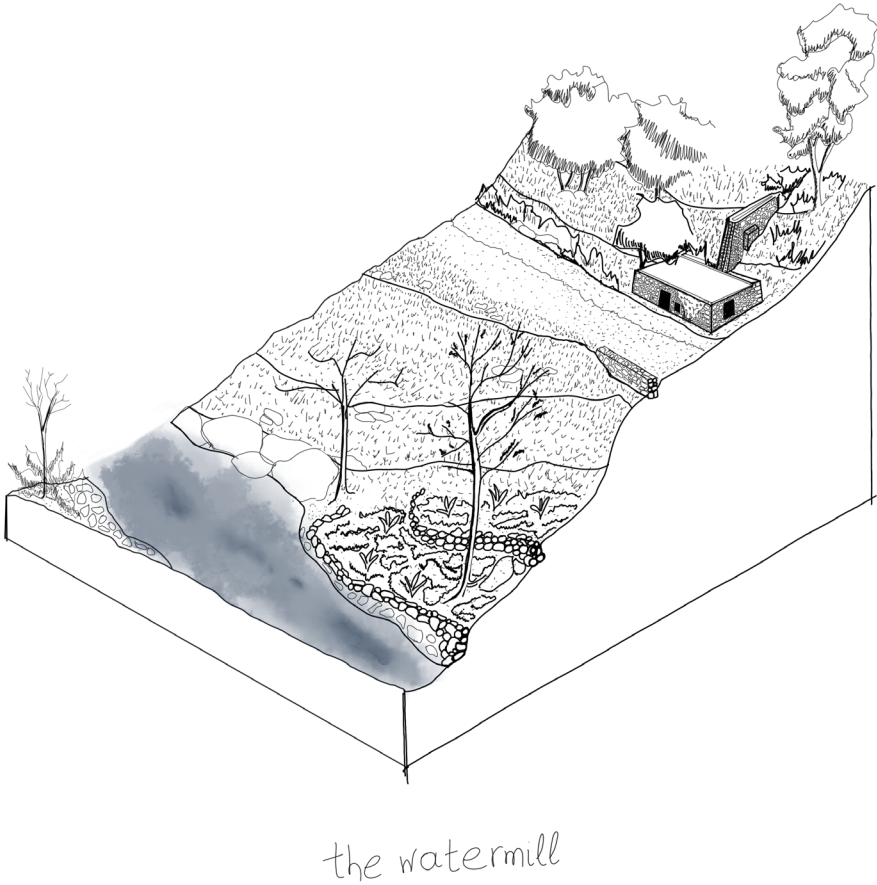
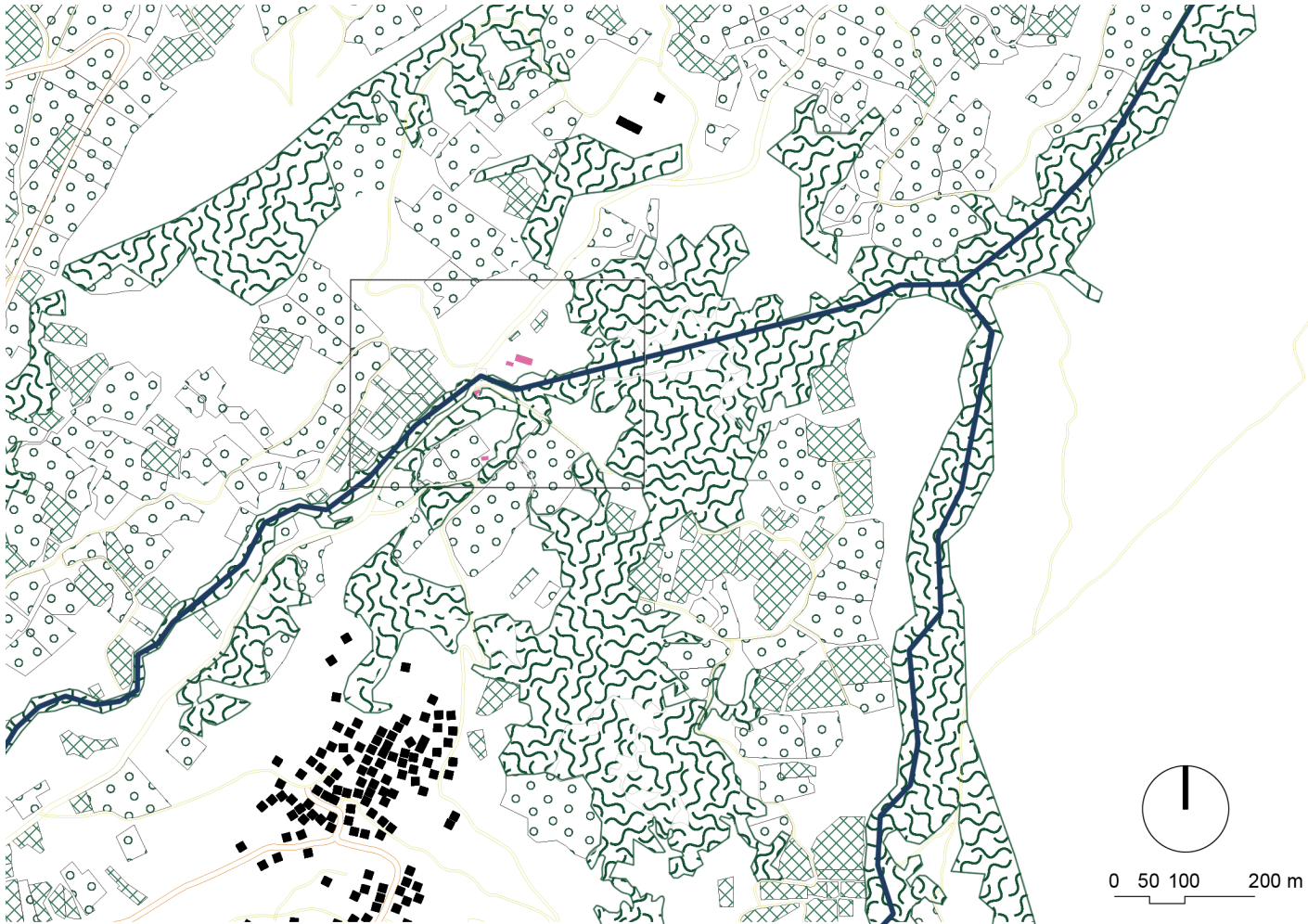
Author, 2021

3 Detected Locattions



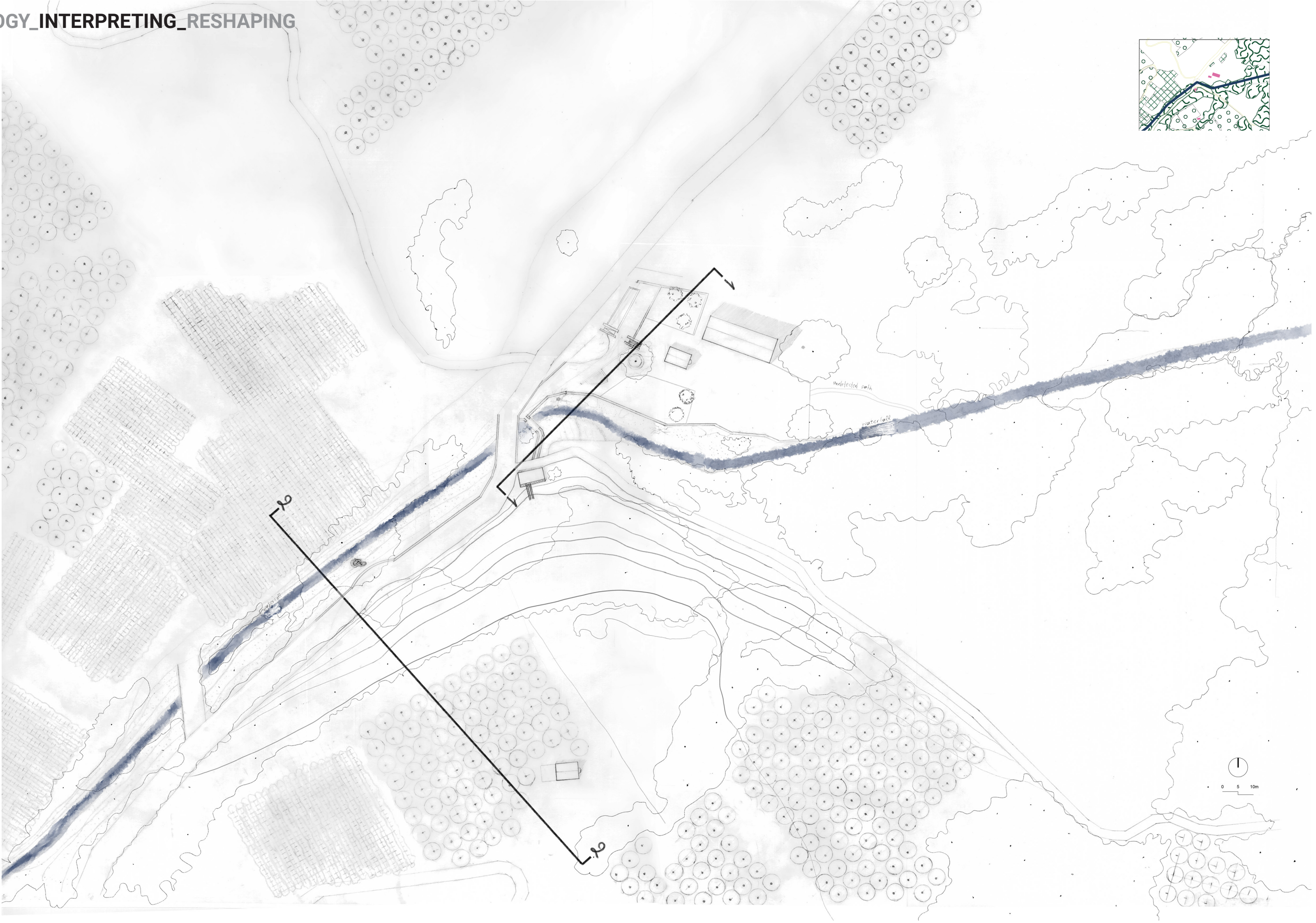
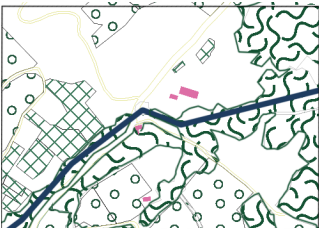
The Nature_upstream

Area of control



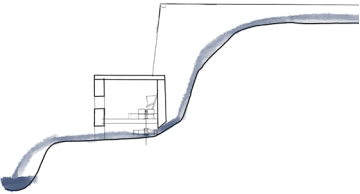
The Nature_upstream

Area of control



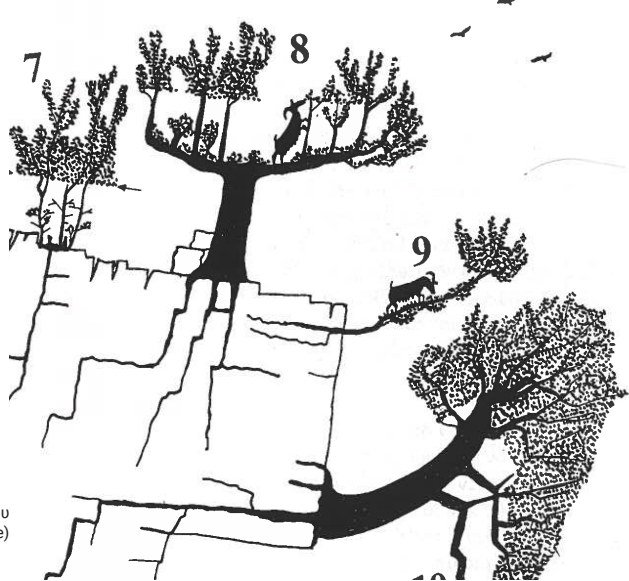
The Nature_upstream

Area of control

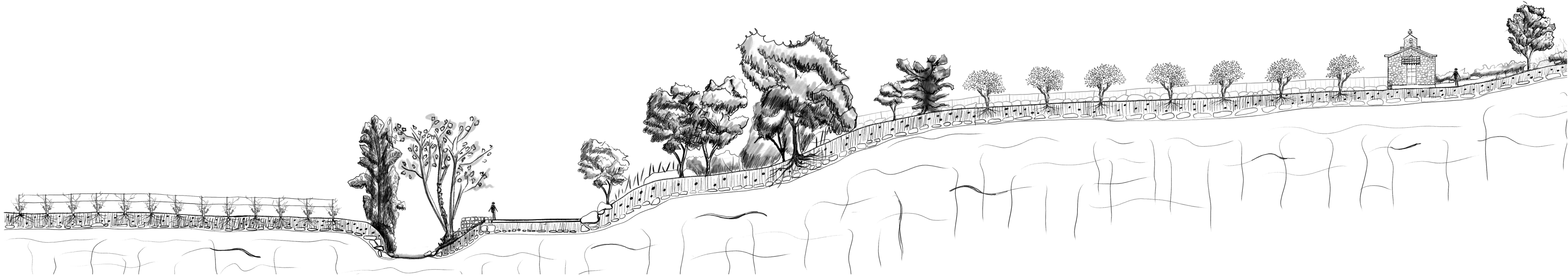


The Nature_upstream

Area of control



Rackham O., Moody A.J. (2008). Η δημιουργία του κρητικού τοπίου. (The making of the cretan landscape) University Publications of Crete

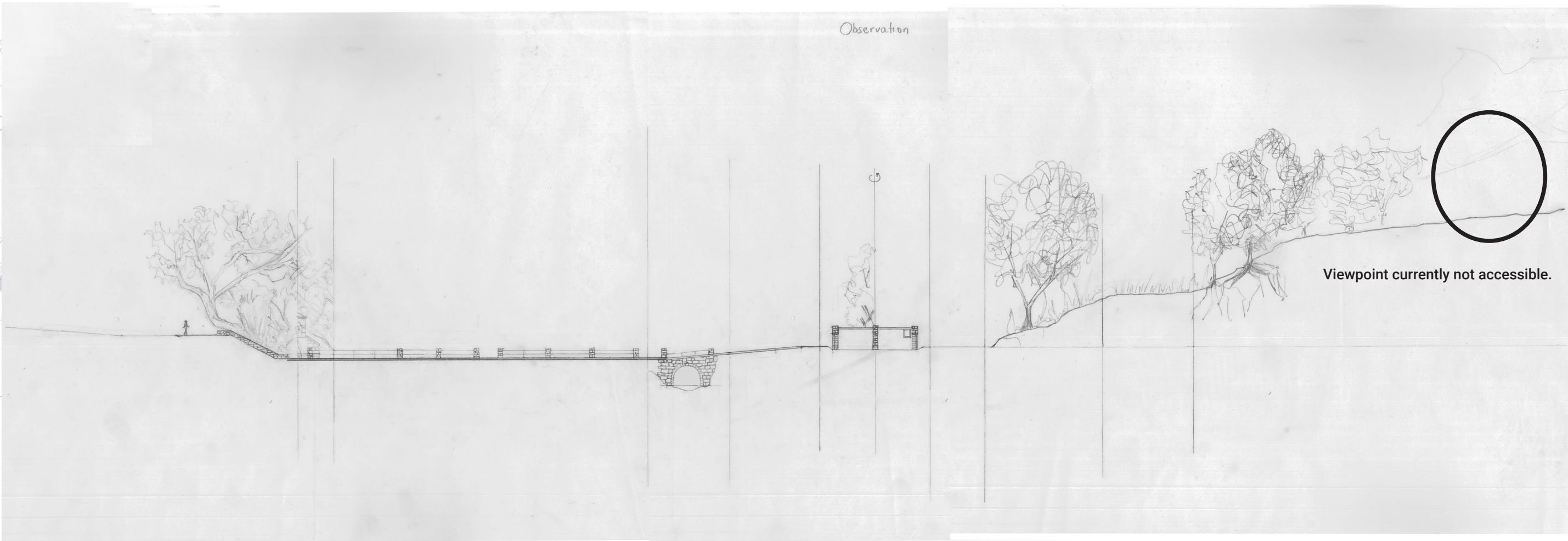


The Nature_upstream

Area of control



Yuchtas’ view as a potential for the design. In the mist it is not seen.



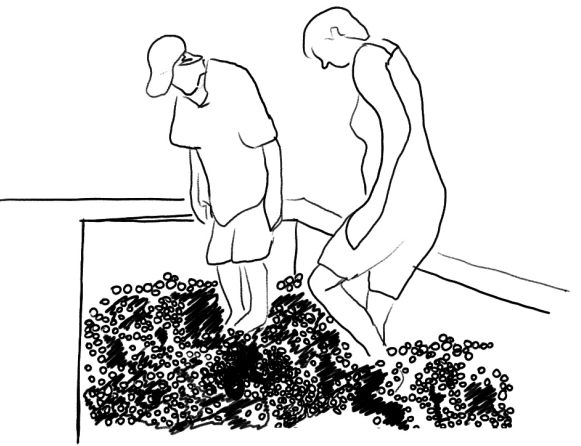
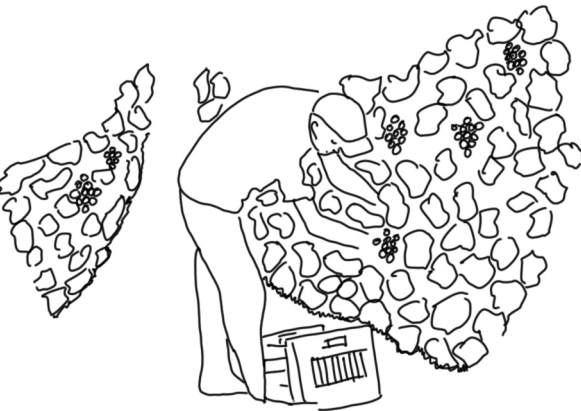
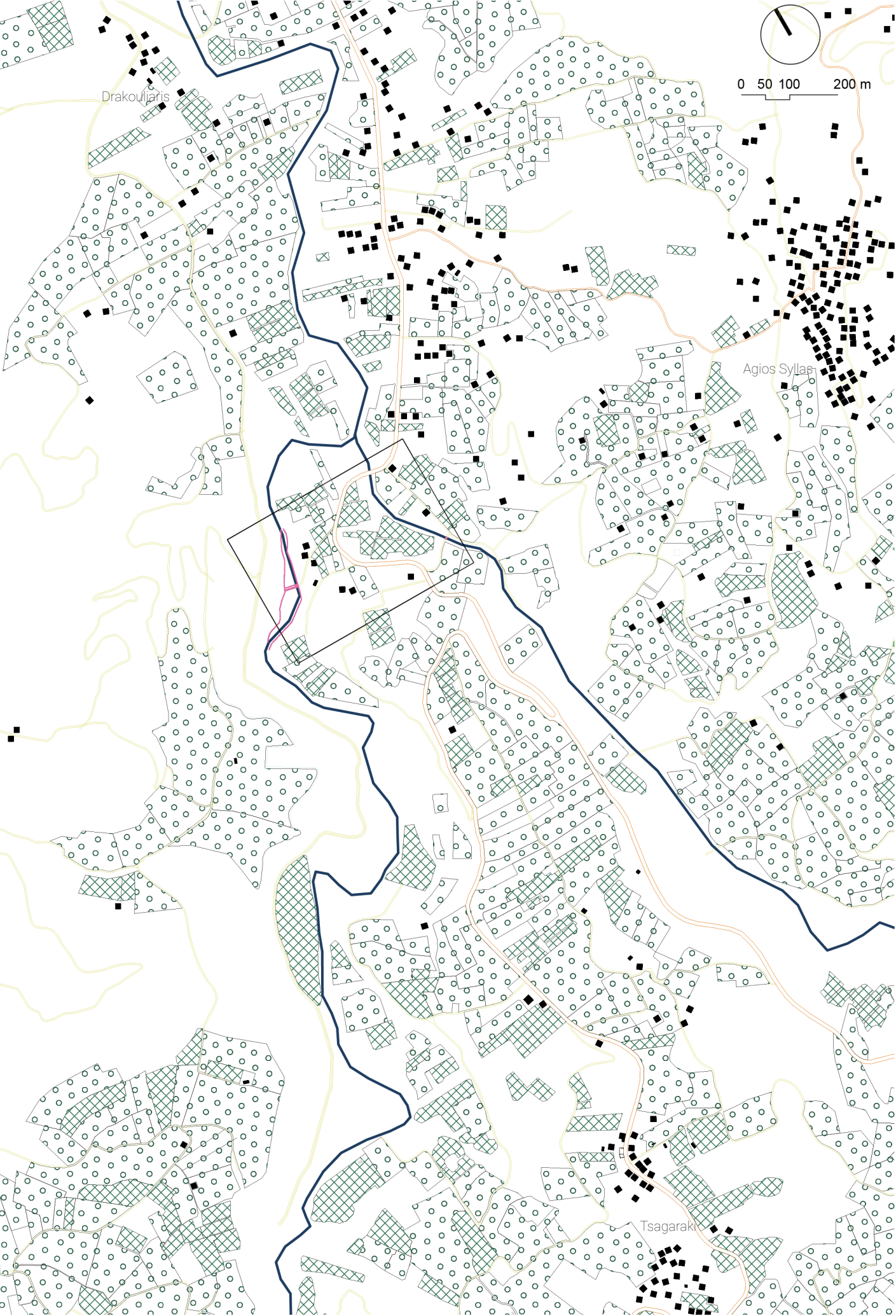
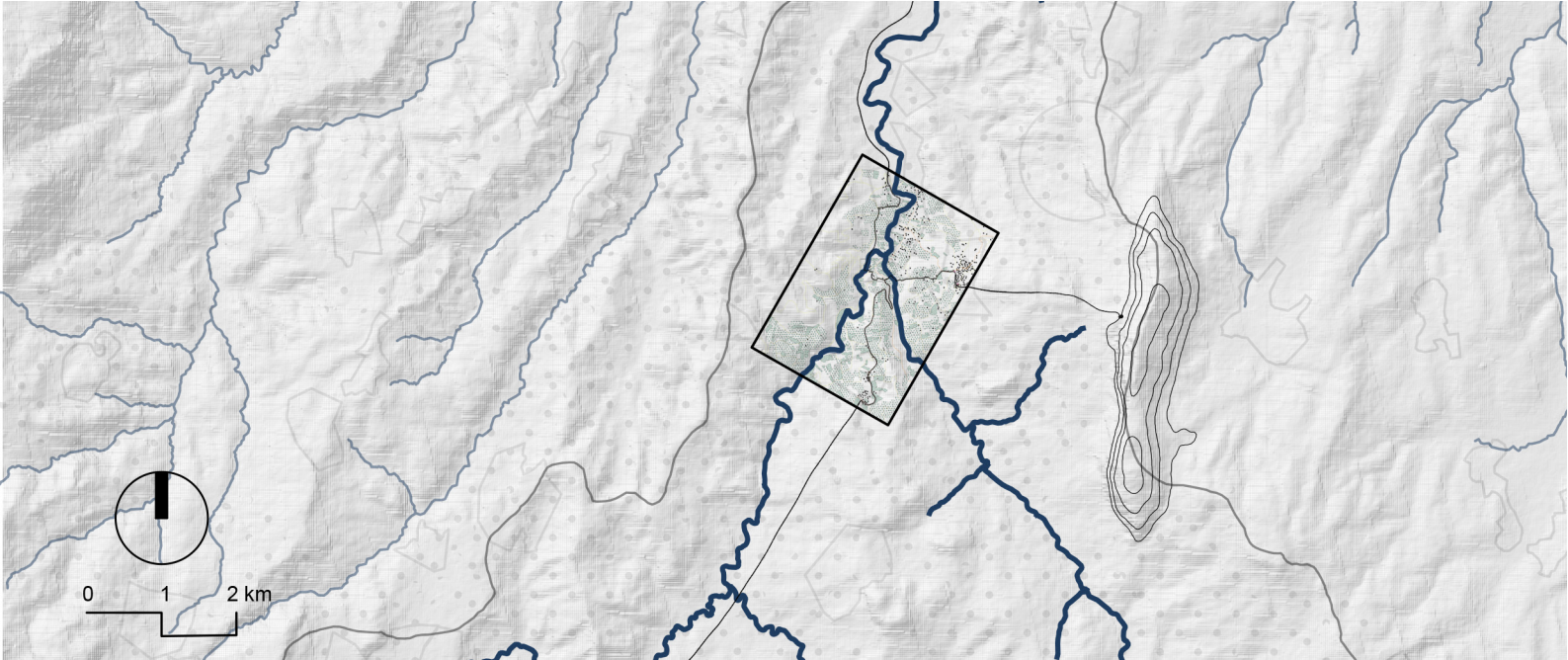
The Nature_upstream

Area of control



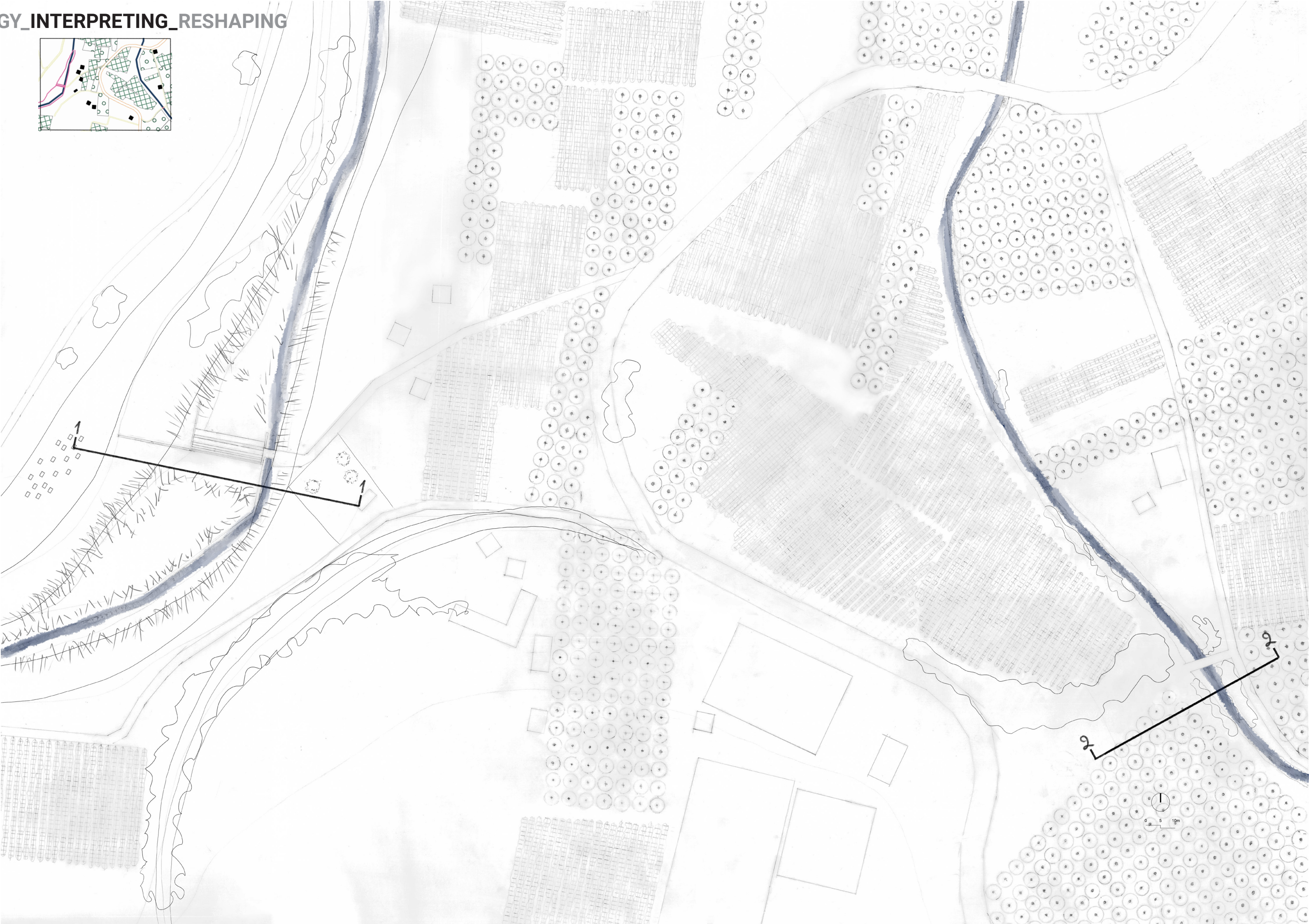
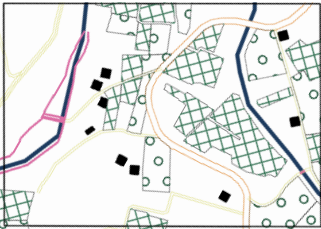
The Field_midstream

Area of control



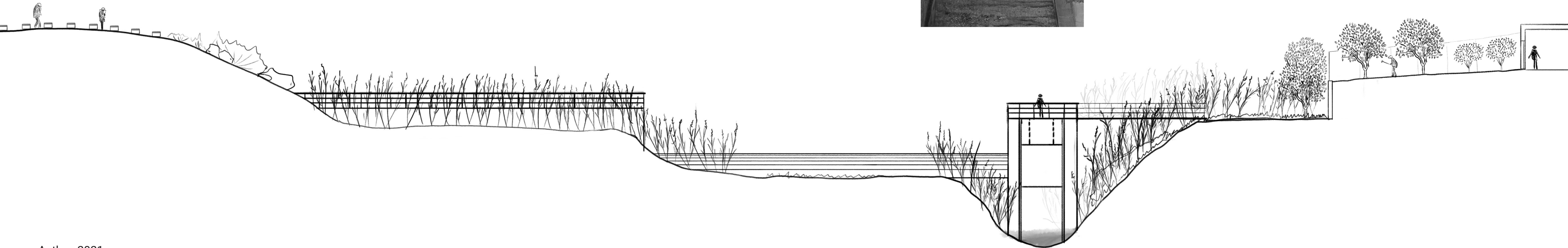
The Field_midstream

Area of control



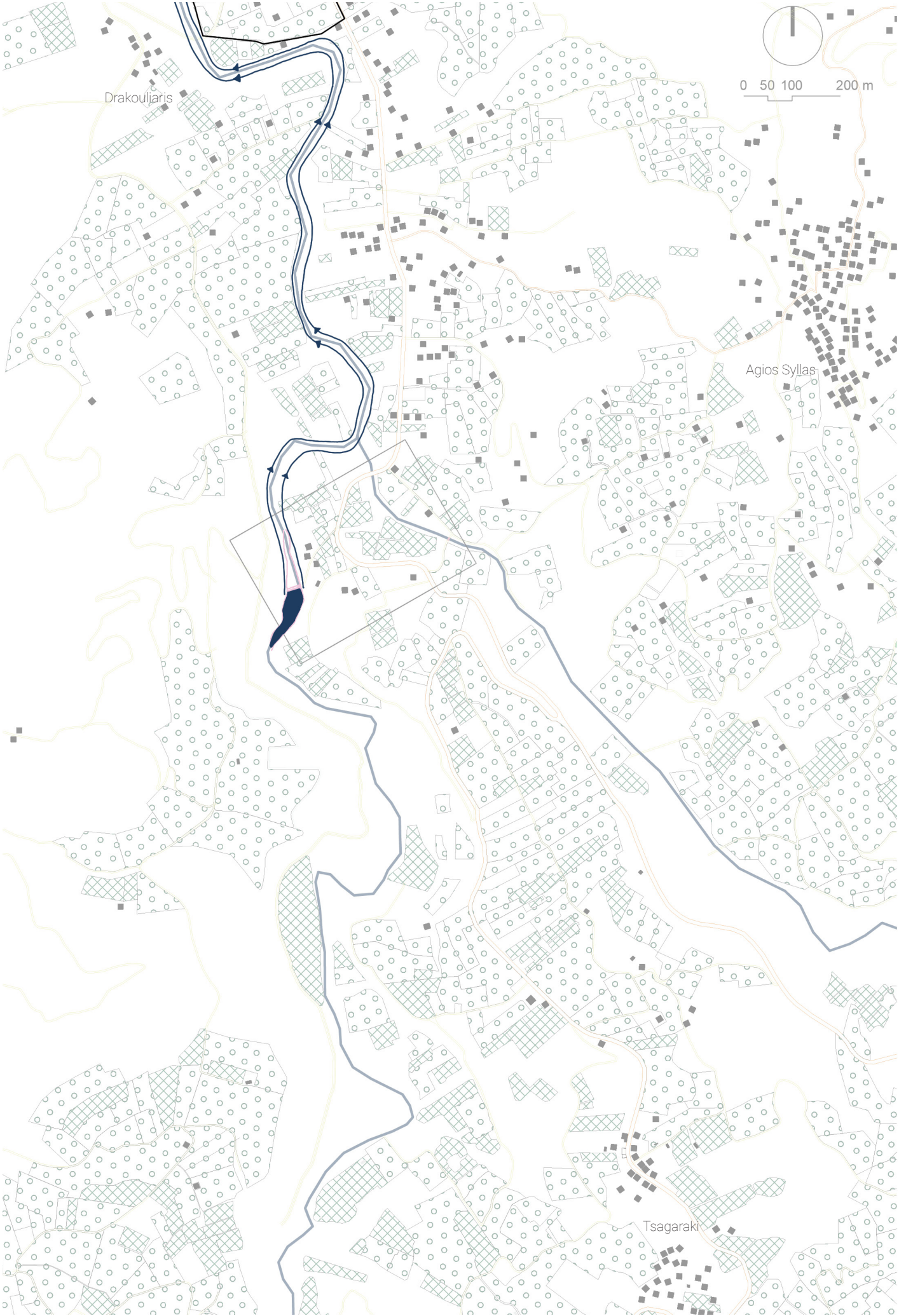
The Field_midstream

Area of control



The Field_midstream

From area of control to area of effect

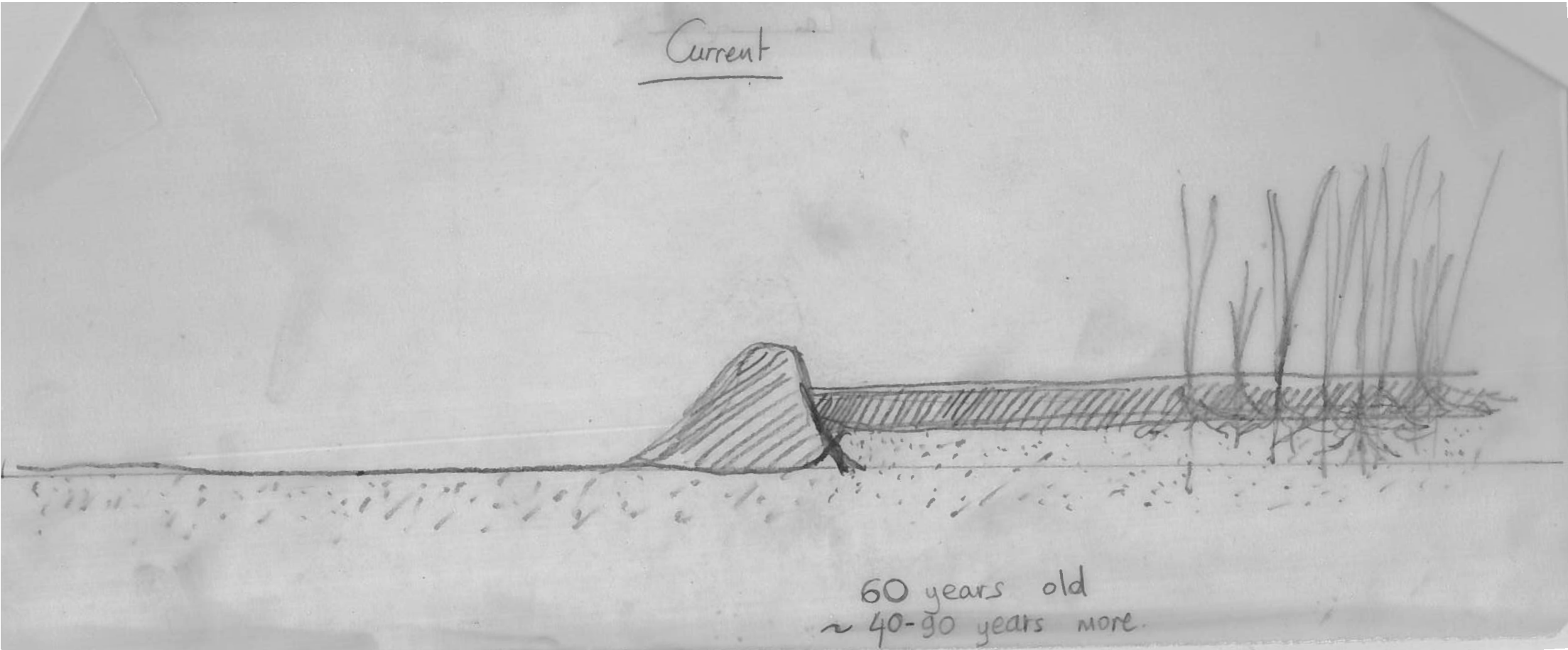
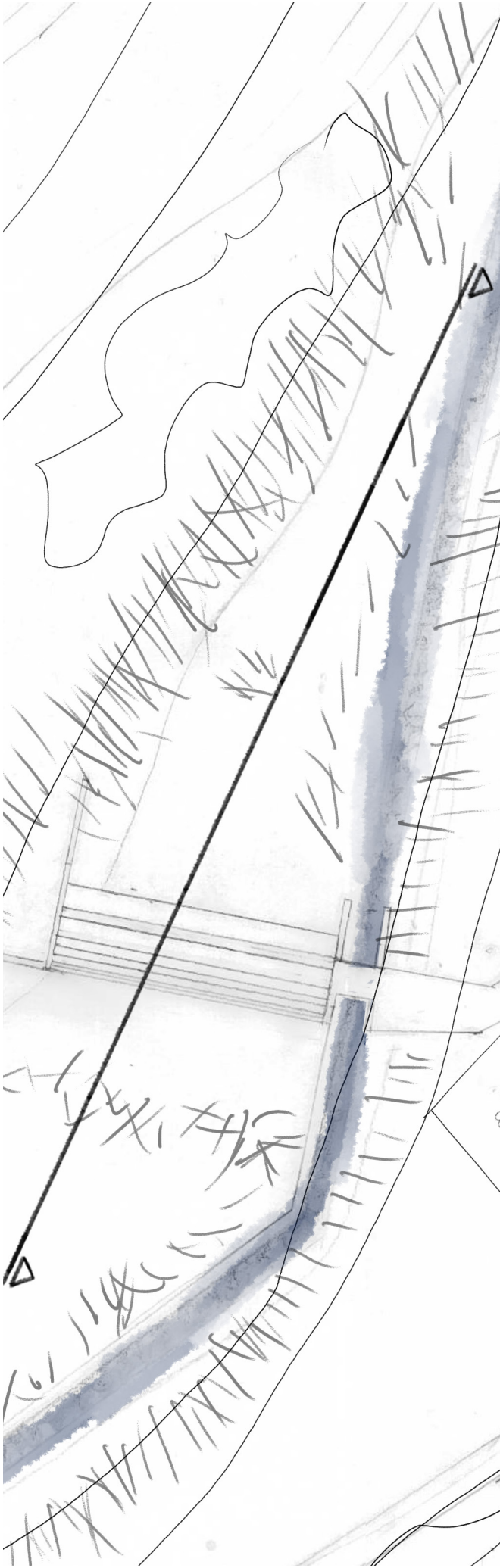


In function from 1960 to 1990

Author, 2021

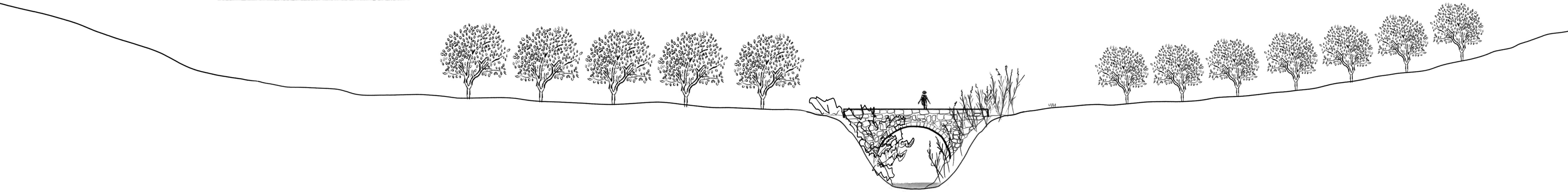
The Field_midstream

Area of control



The Field_midstream

Area of control

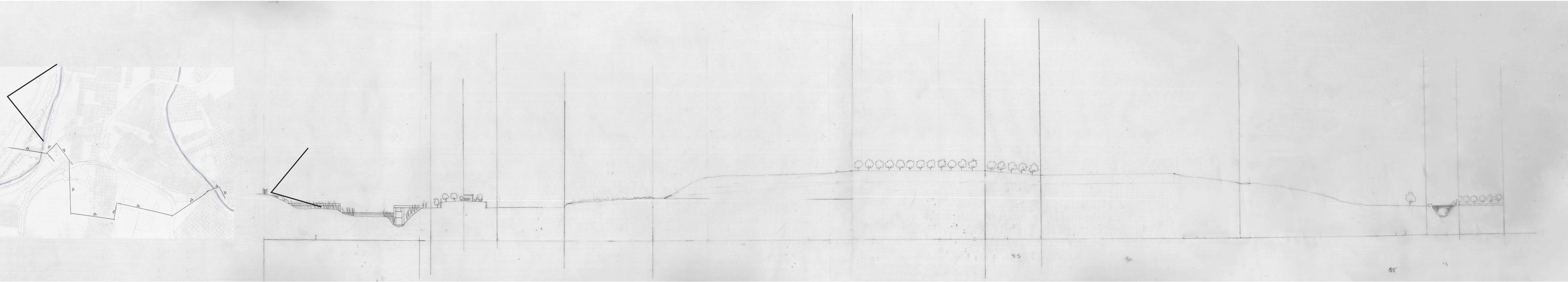


The Field_midstream

Area of control



Yuchtas view. Viewpoint shown in the section below.



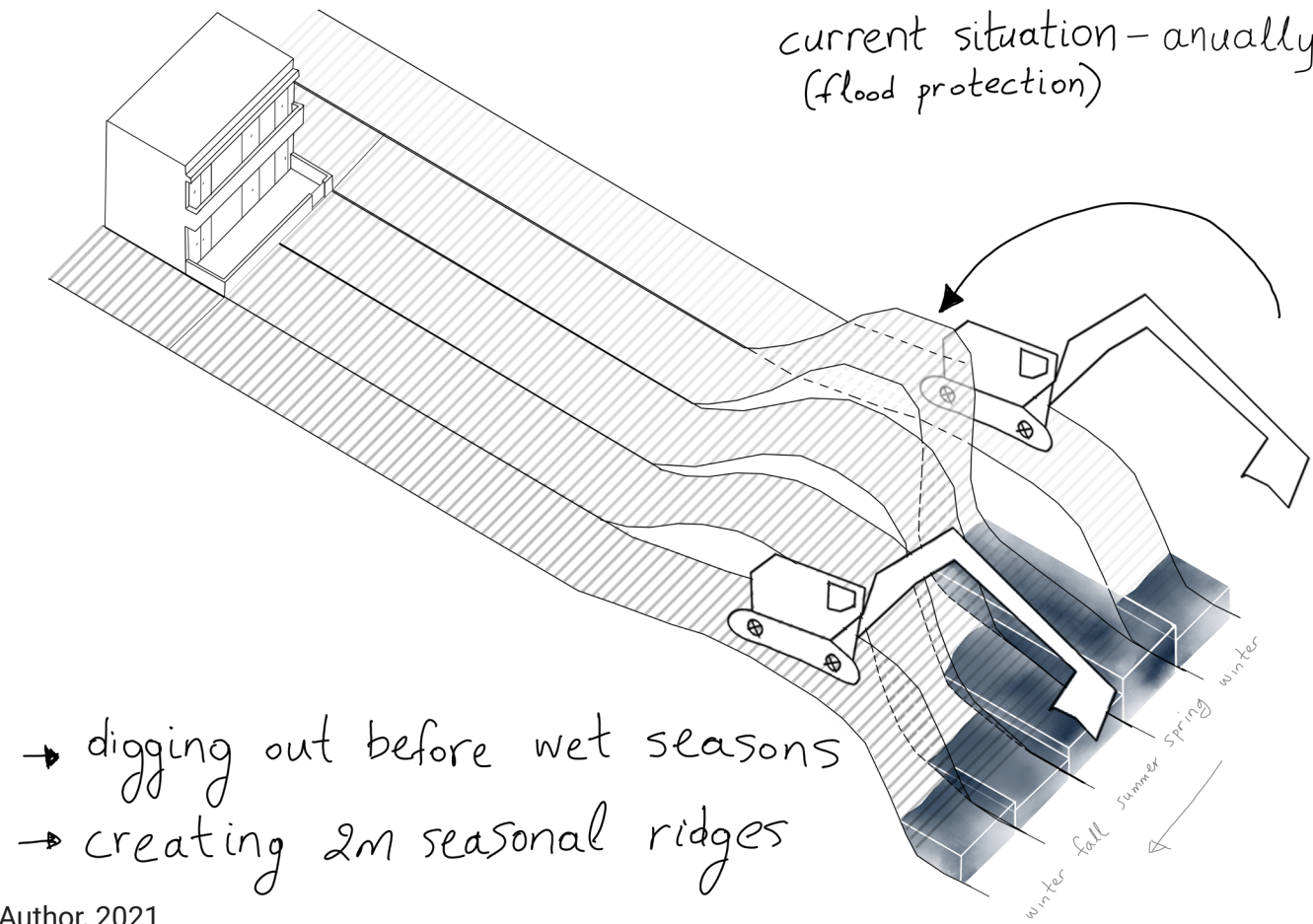
The City_downstream

Area of control

Urban part of the river. December 2020 (Author)



Urban part of the river. Removed reeds, January 2021 (Author)



Author, 2021

Abstract nolli map



The City_downstream

Area of control



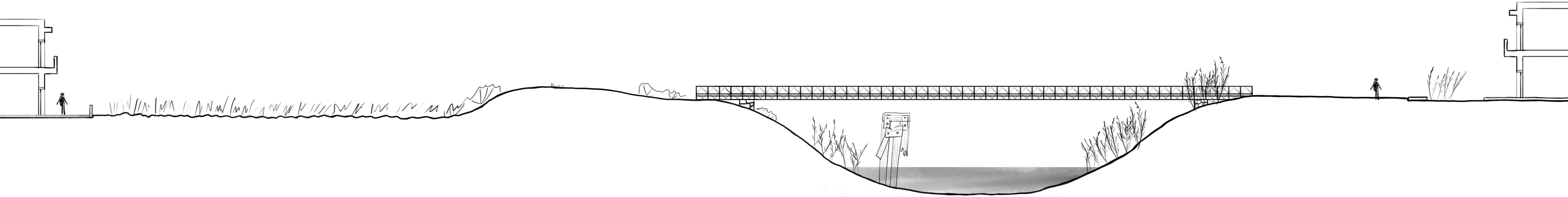
The City_downstream

Area of control



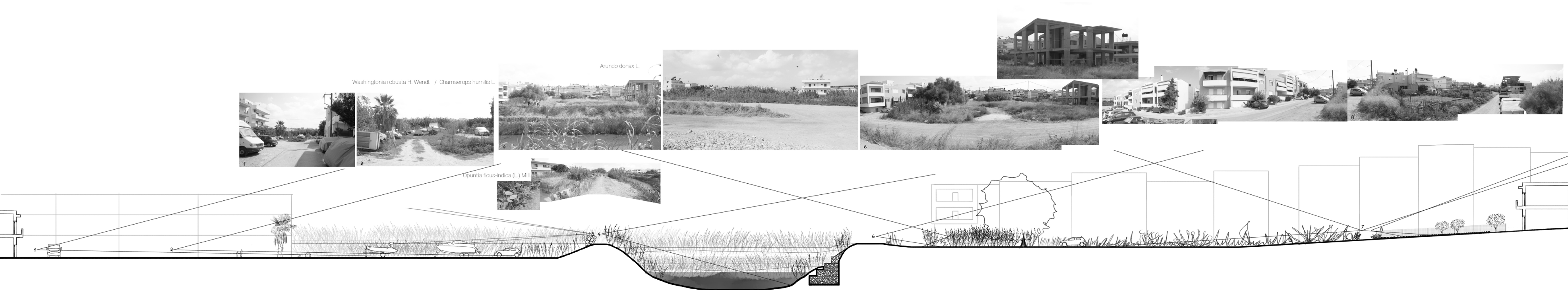
The City_downstream

Area of control



The City_downstream

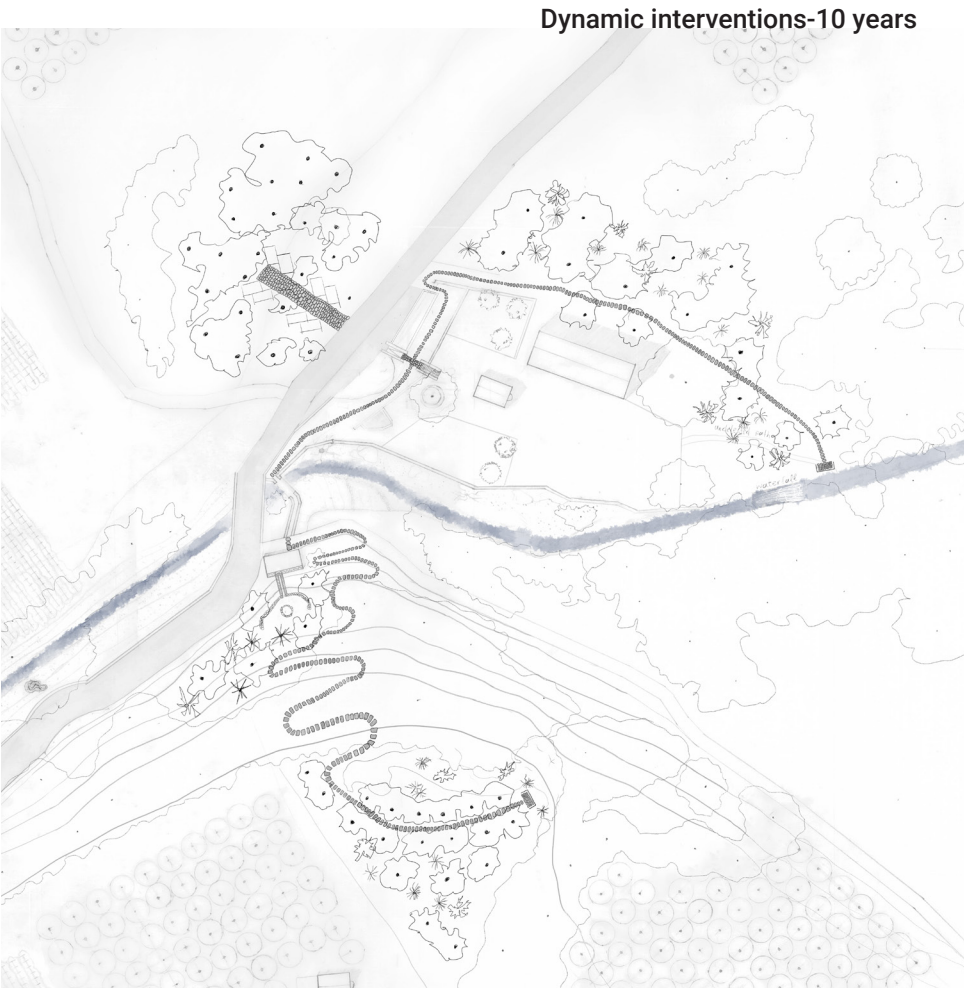
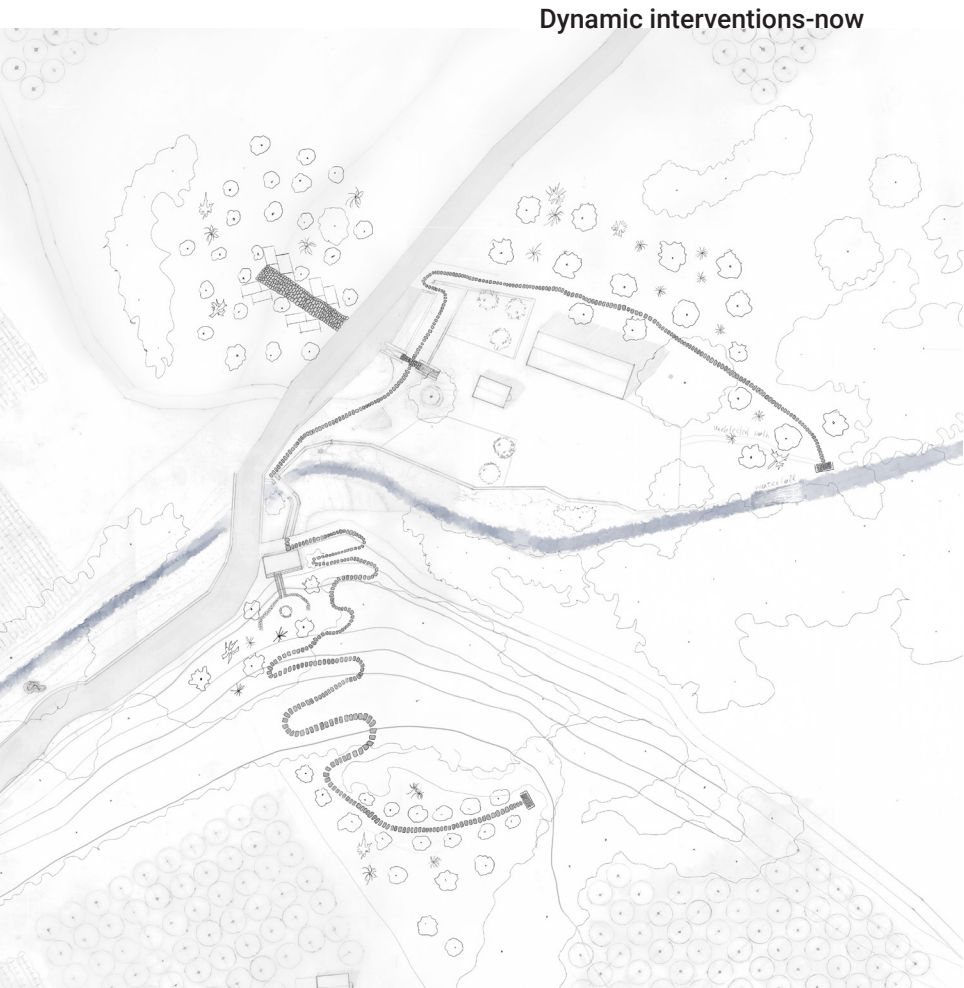
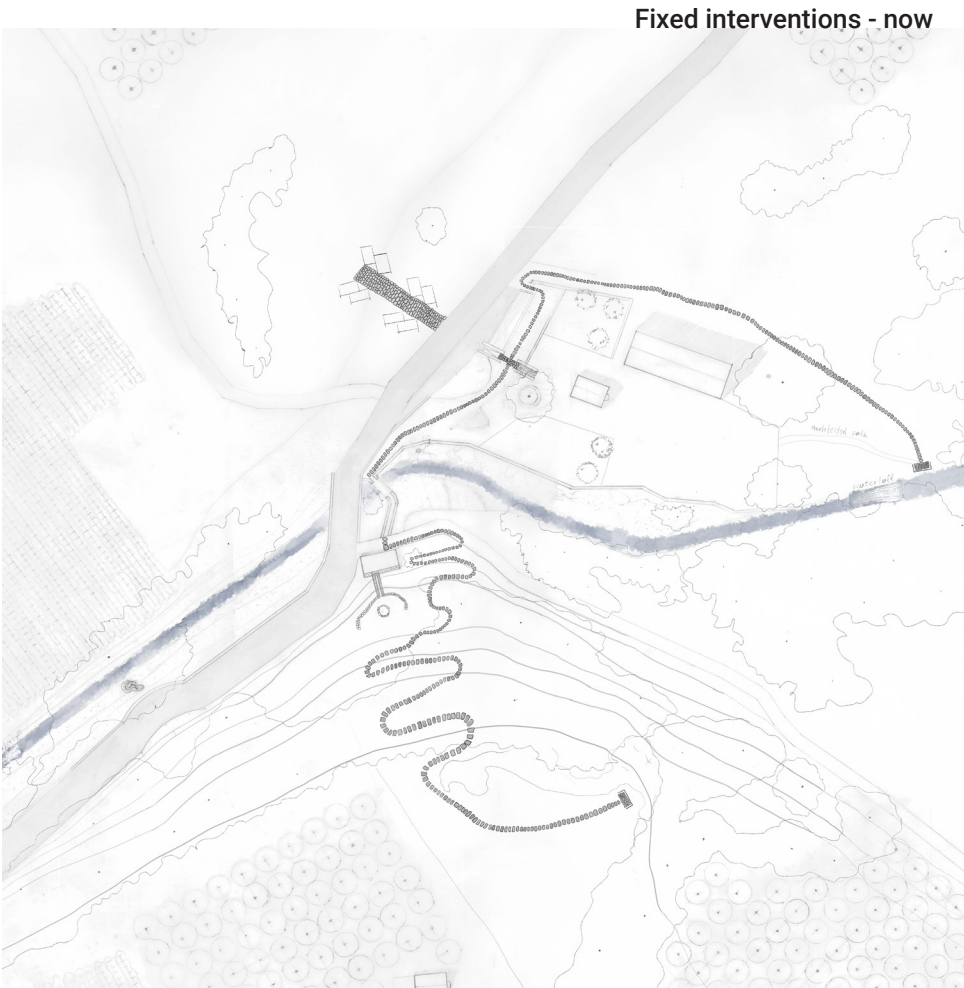
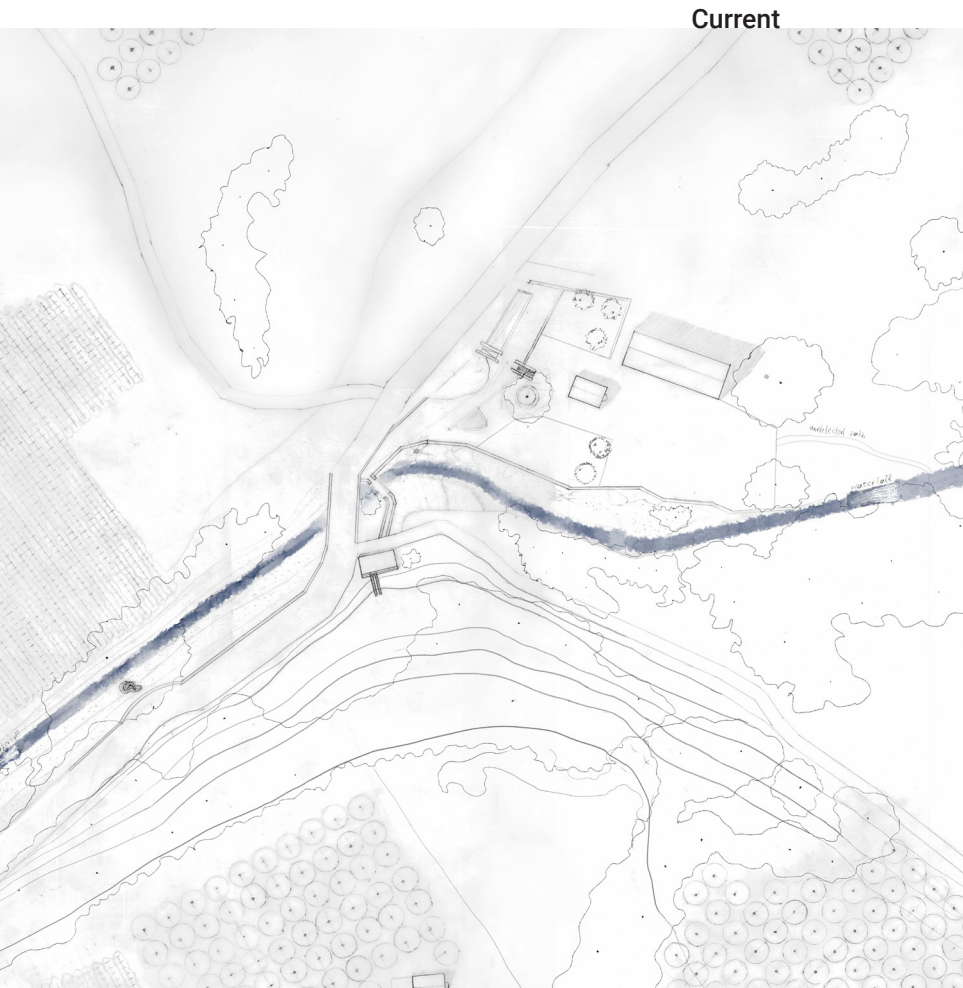
Area of control



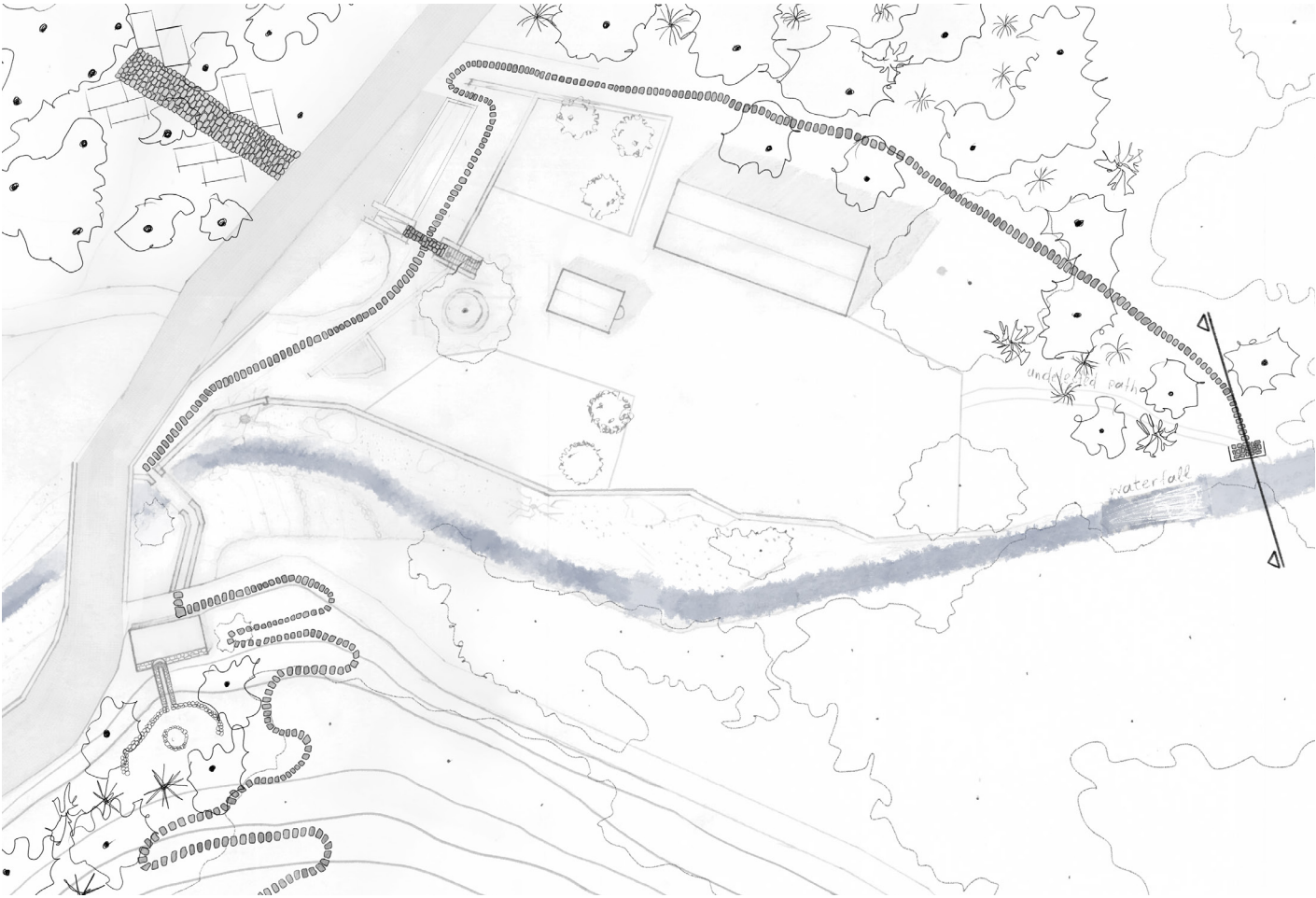


The Nature_upstream

Area of effect



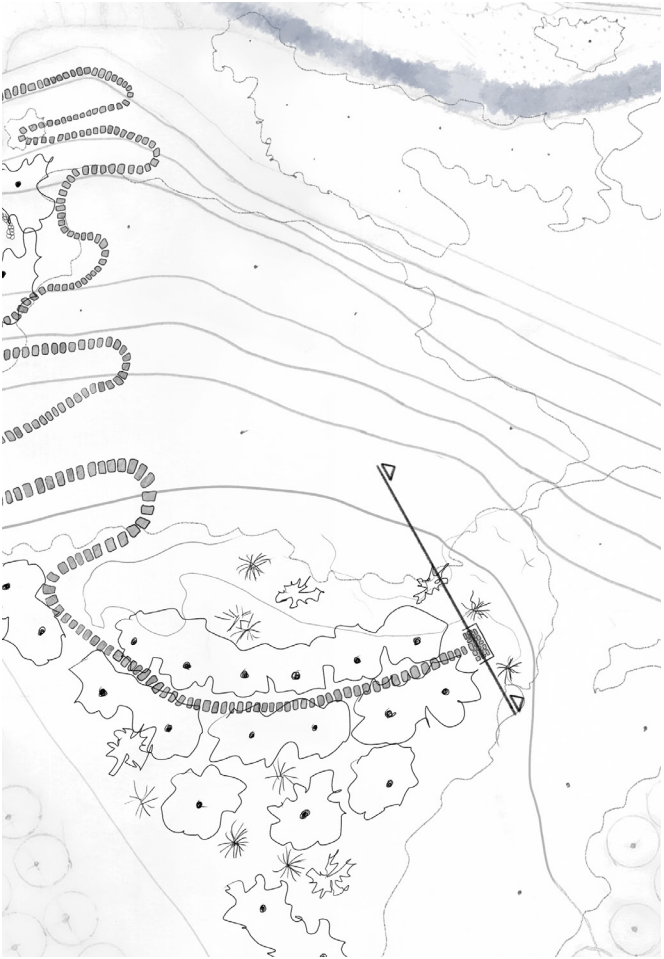
The Nature_upstream



The Nature_upstream



The Nature_upstream

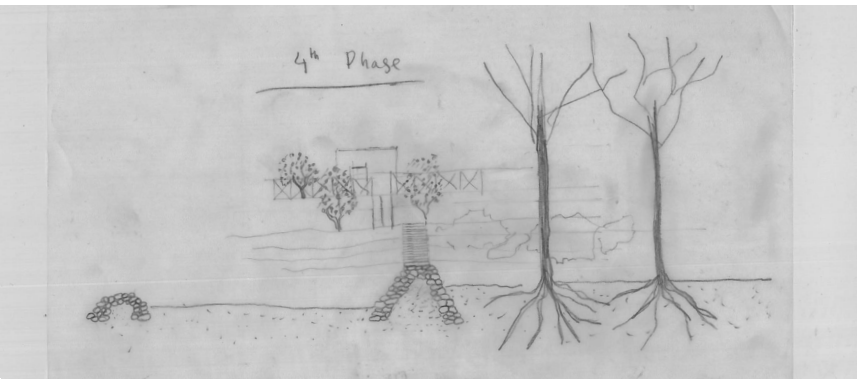
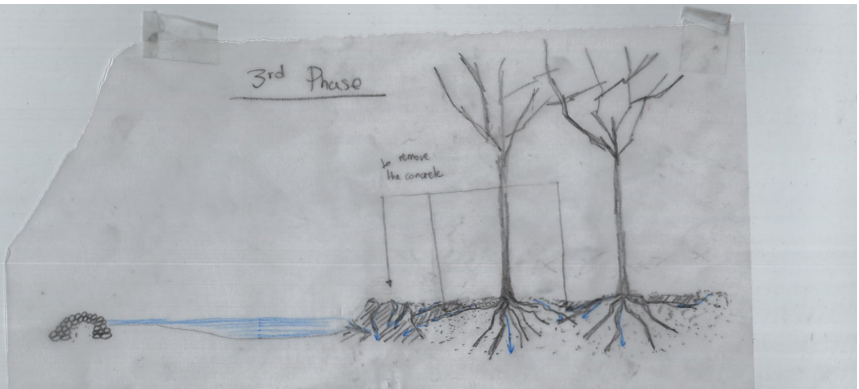
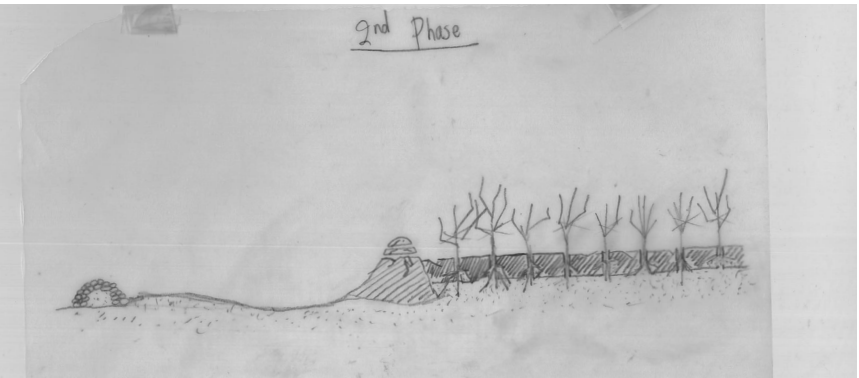
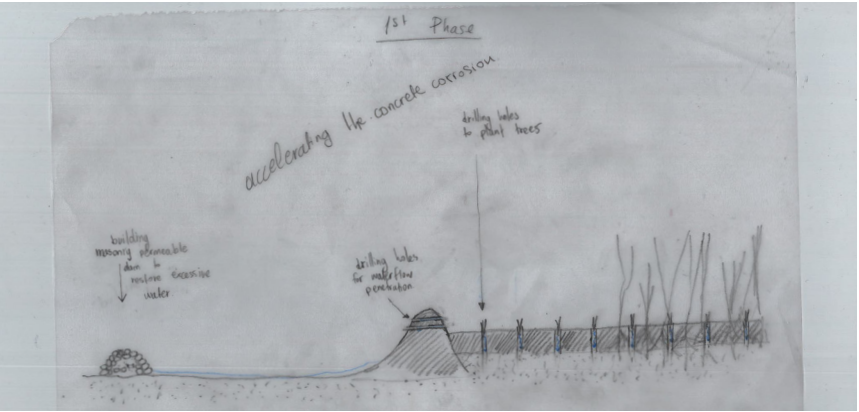
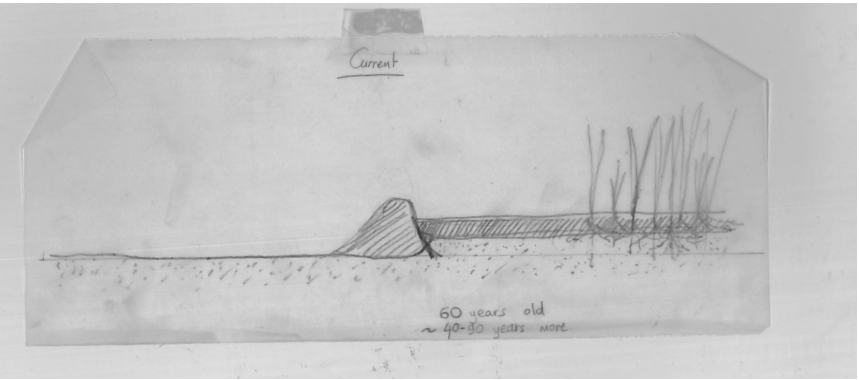
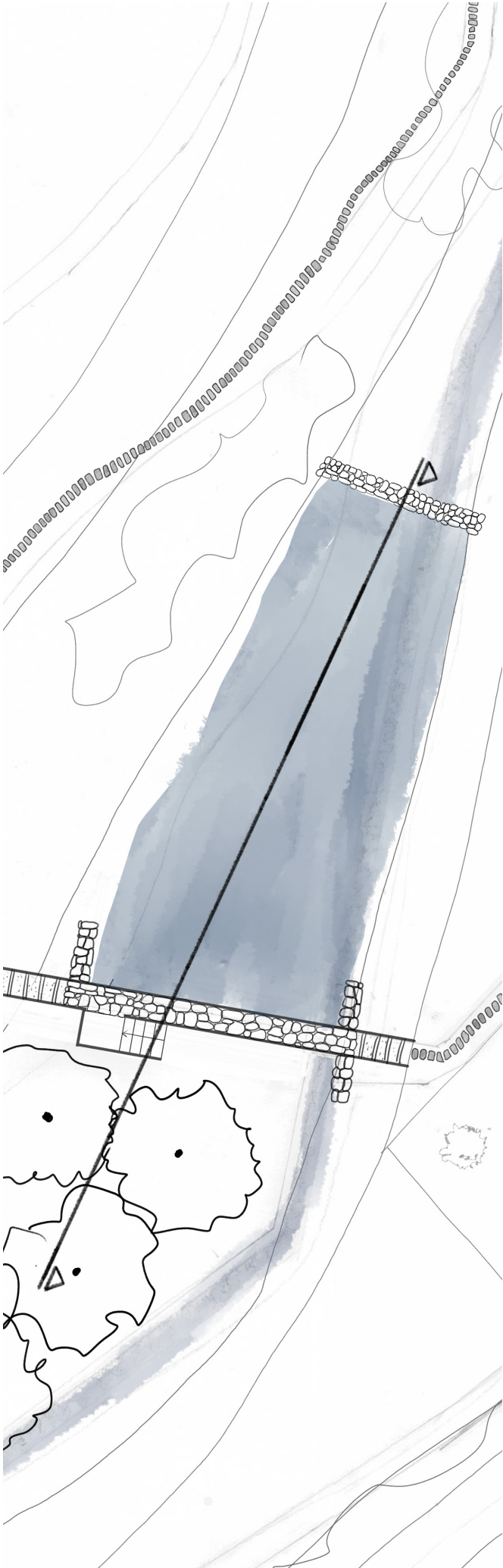




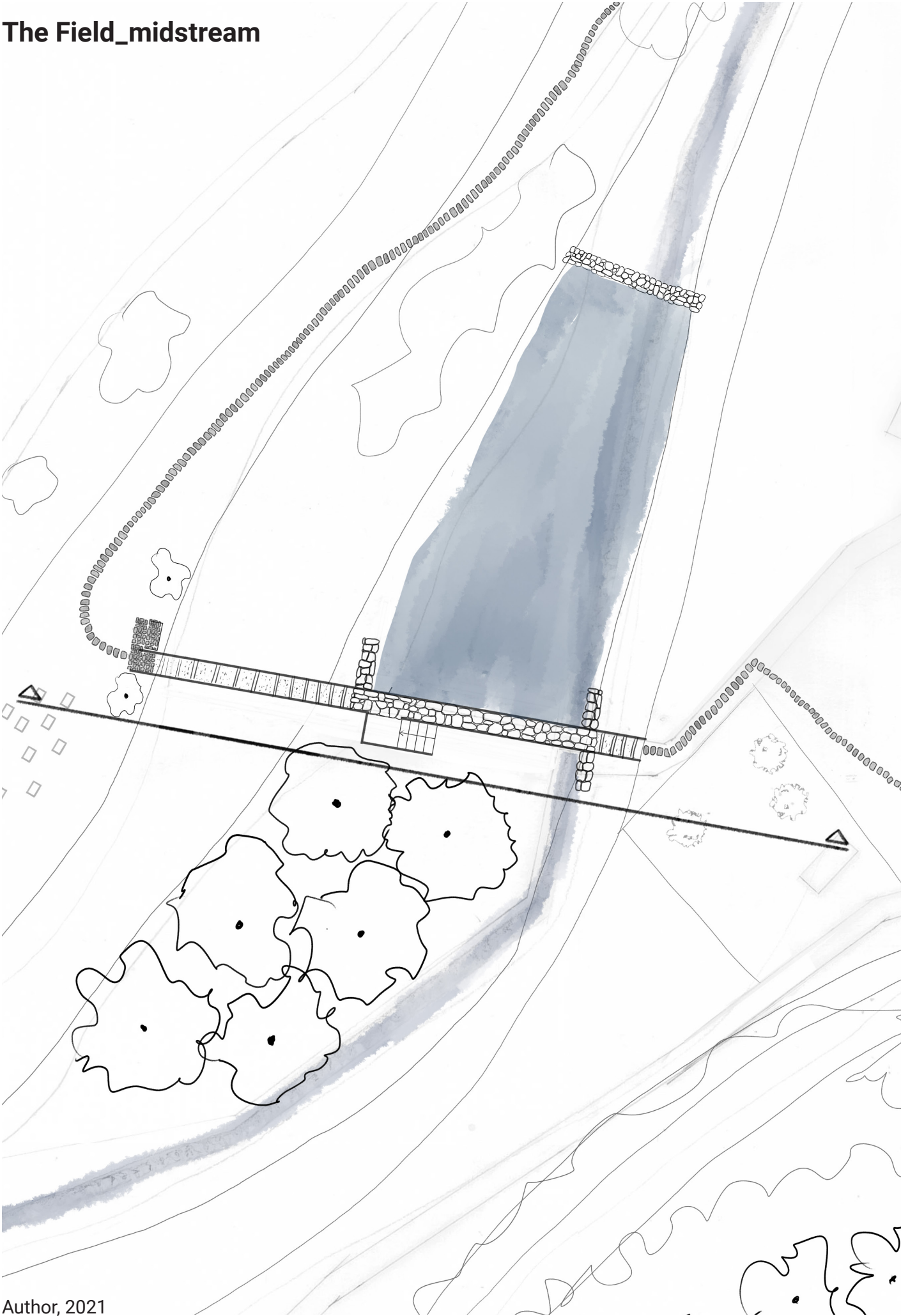
The Field_midstream



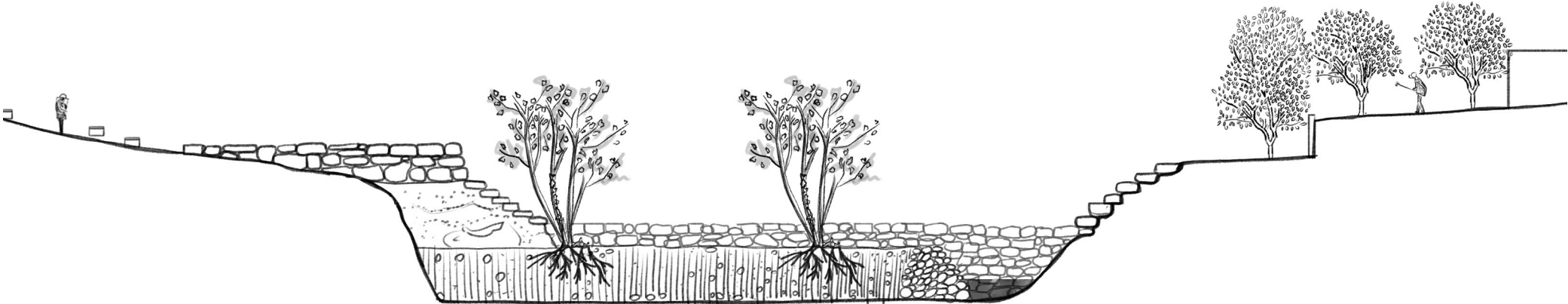
Author, 2021



The Field_midstream



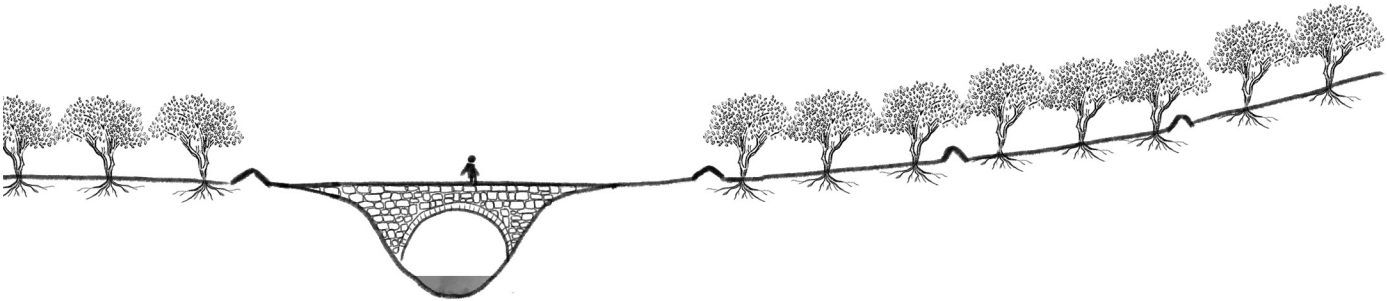
Author, 2021



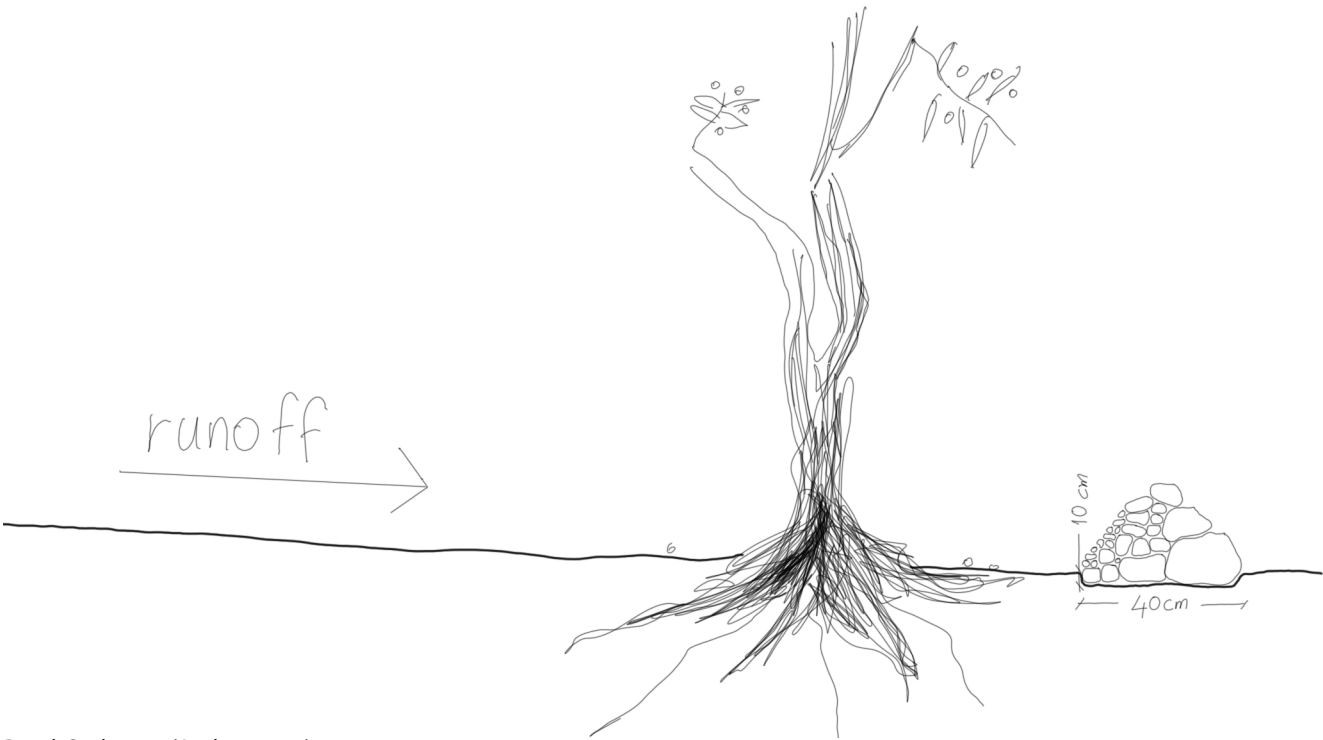
The Field_midstream



Author, 2021



Author, 2021



Bund. Scale 1:20 (Author, 2021)

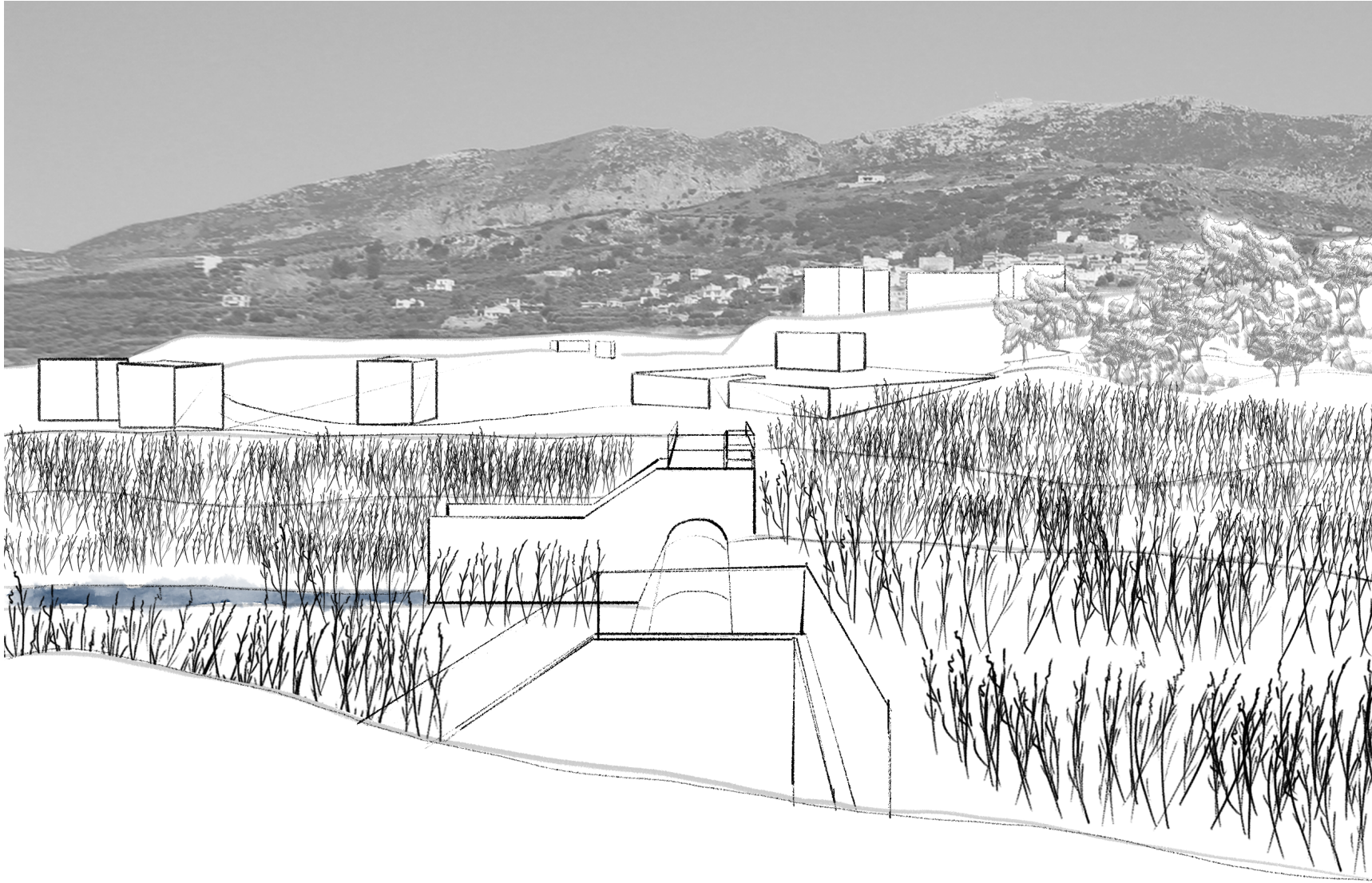
The Field_midstream

Area of influence

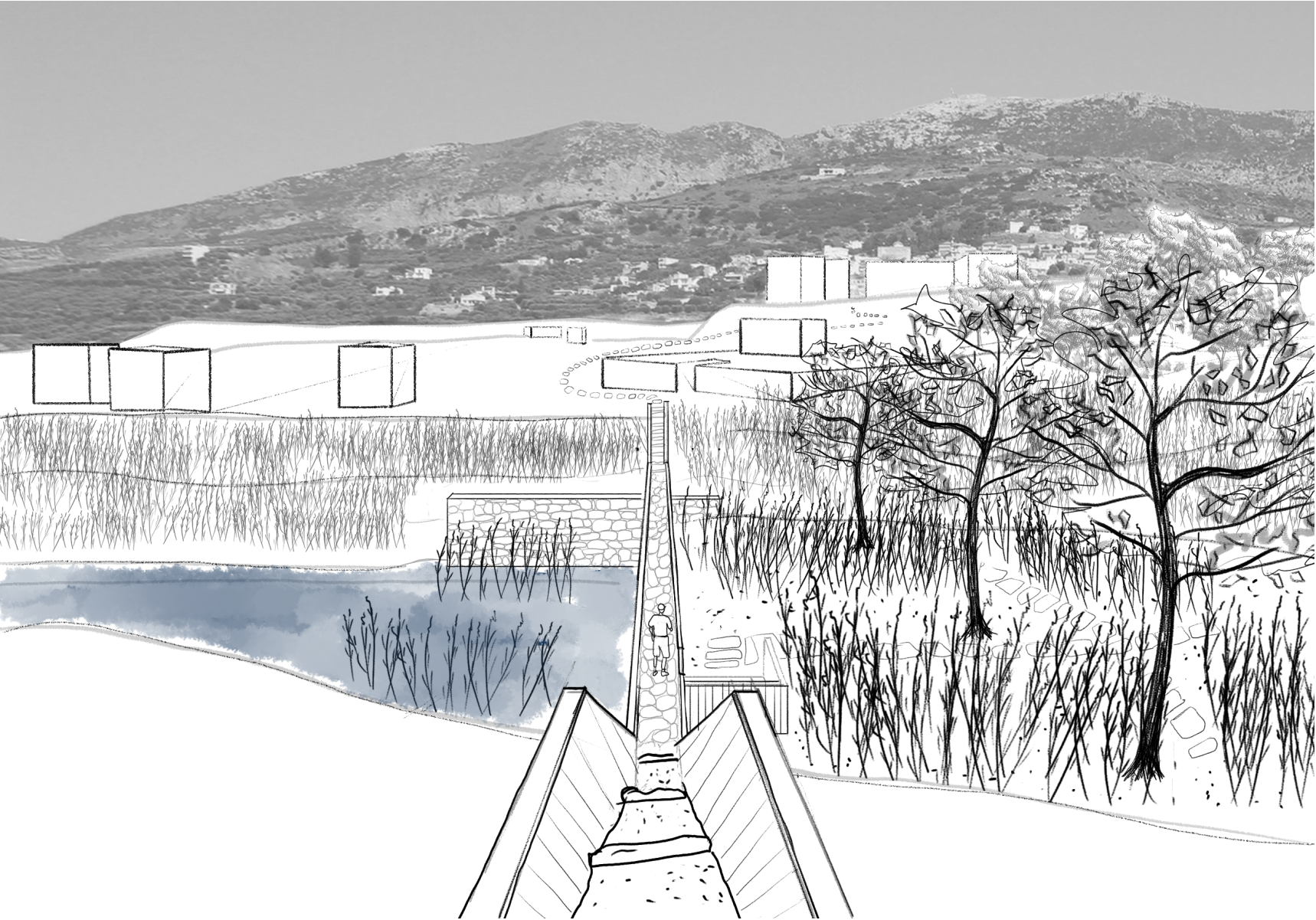


The Field_midstream

Current



Future



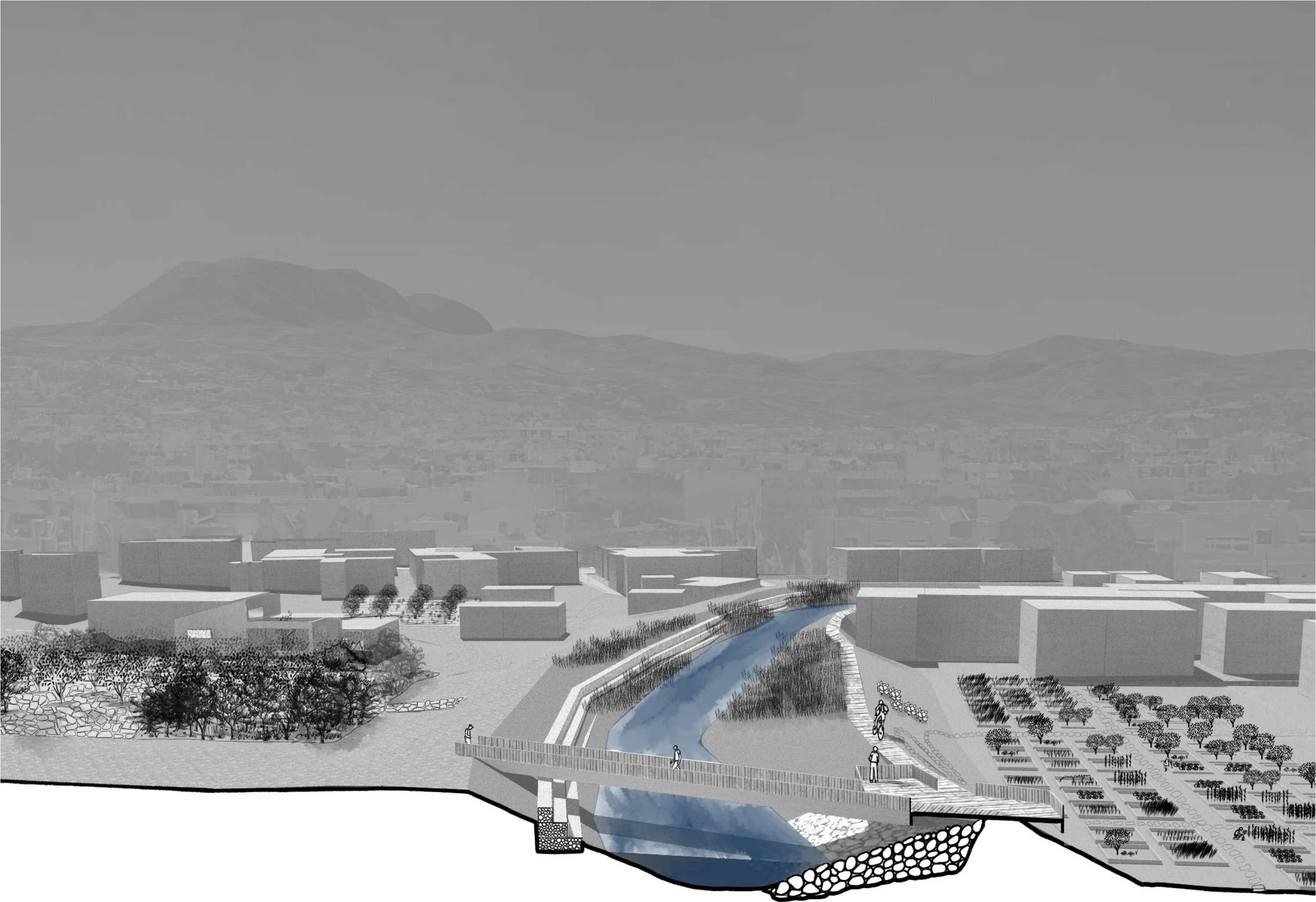
The City_downstream



The City_downstream

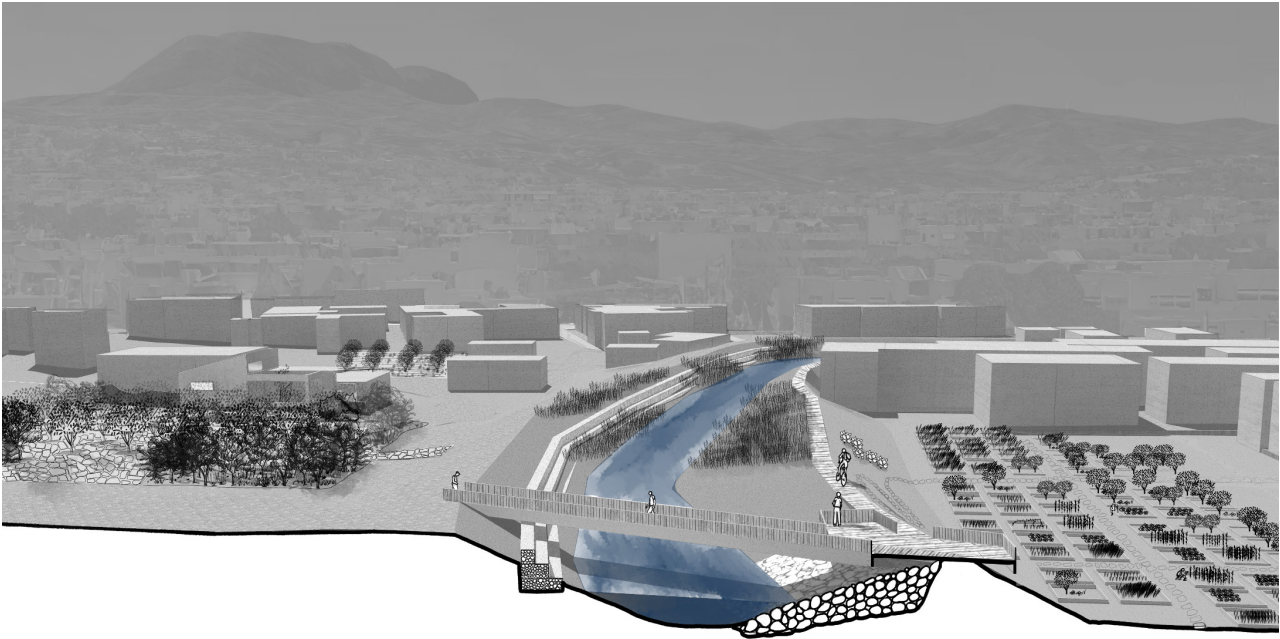
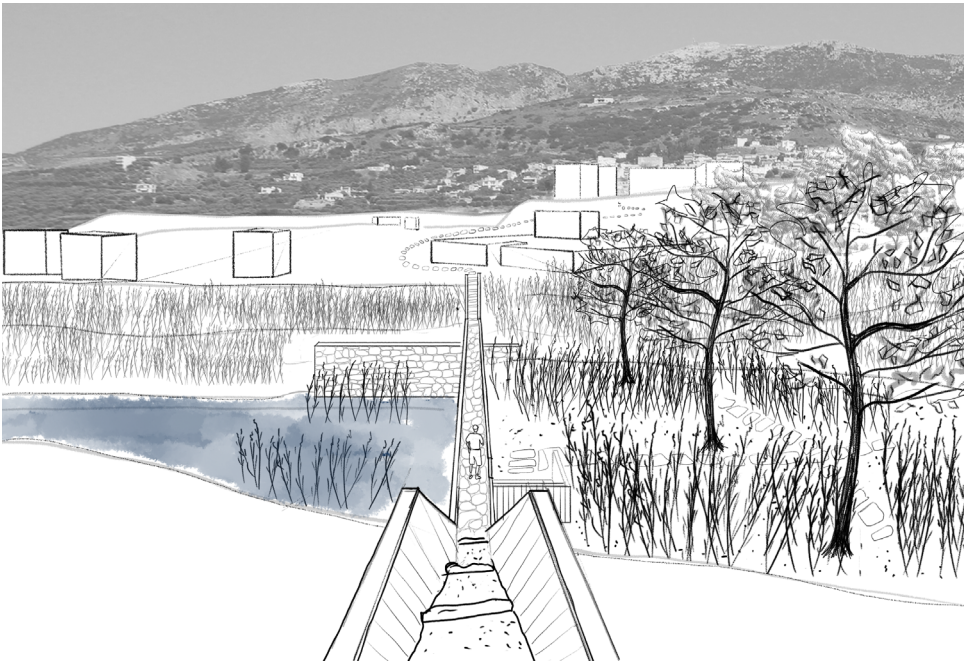
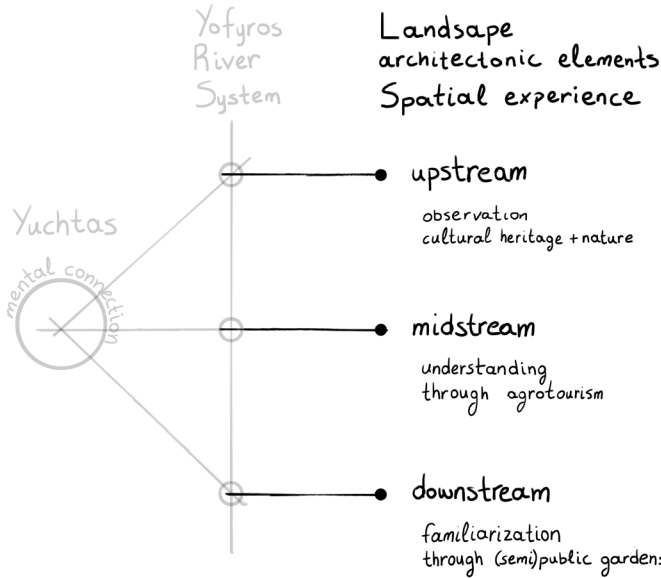


The City_downstream

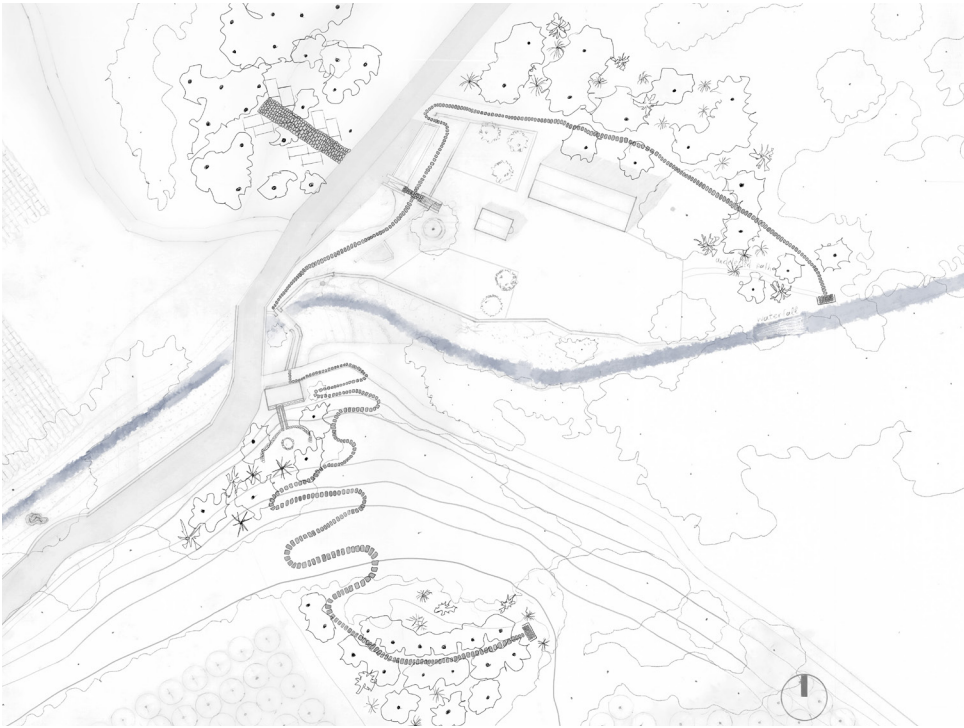


Area of Control

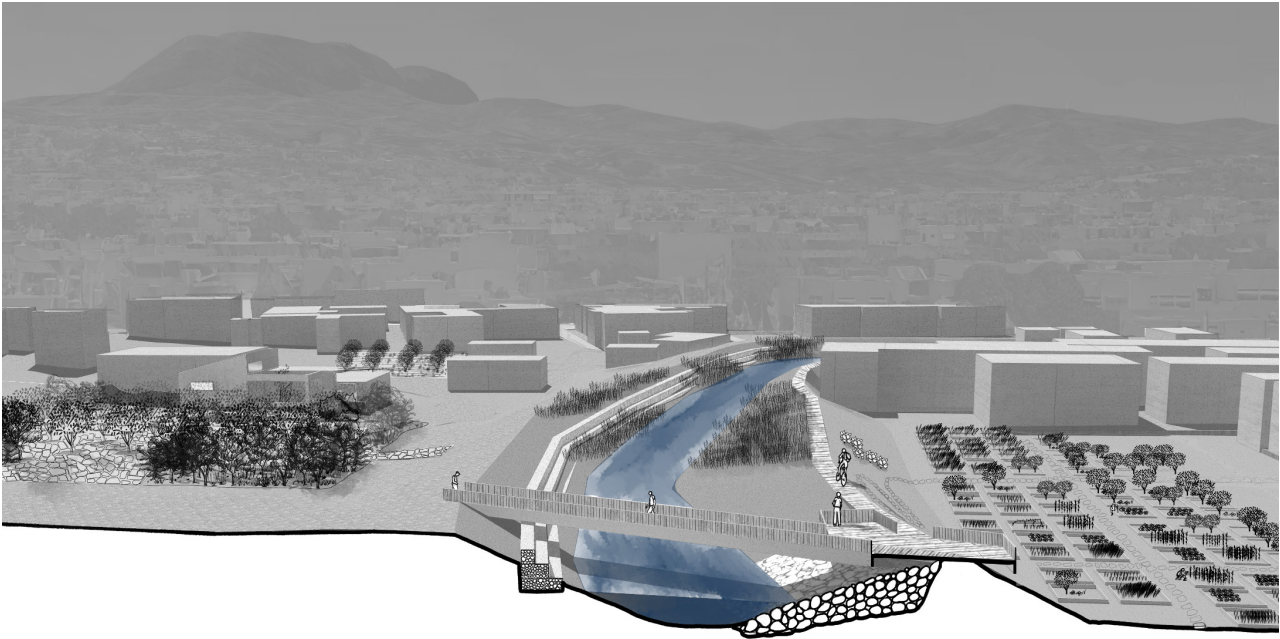
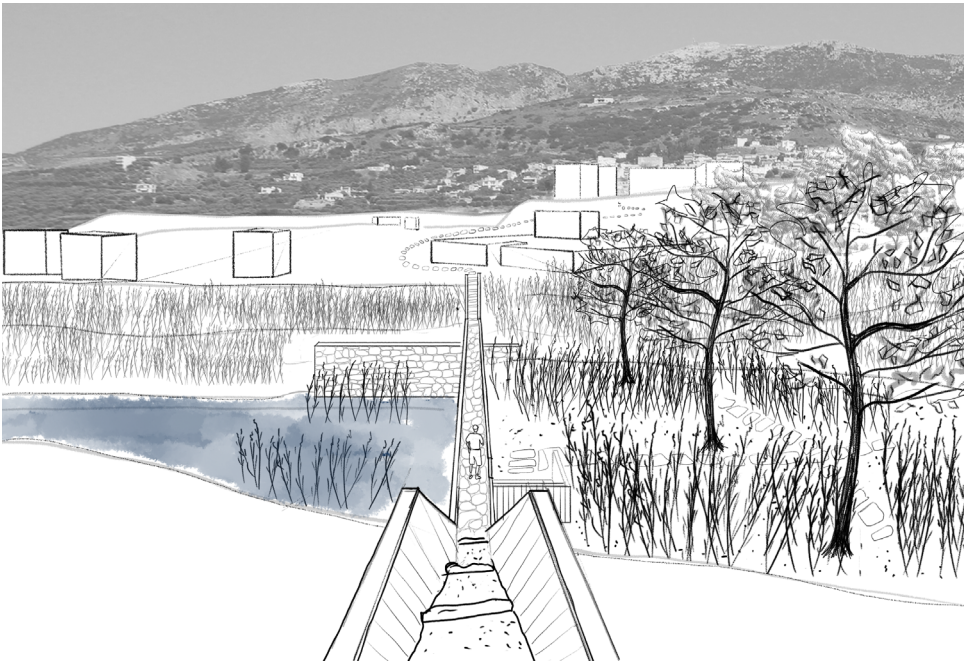
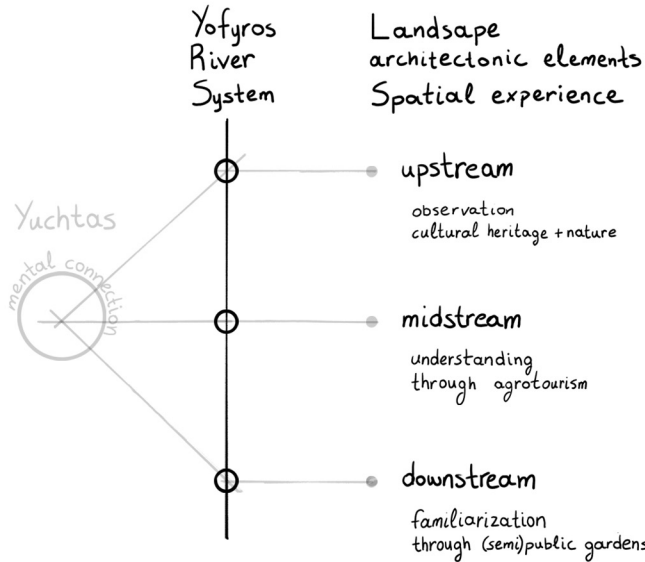
BRIDGING



Area of Effect



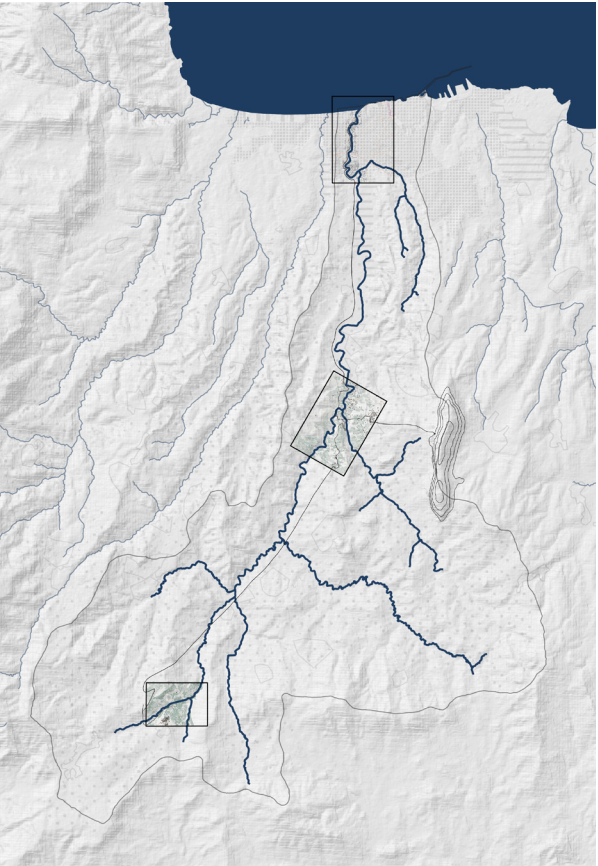
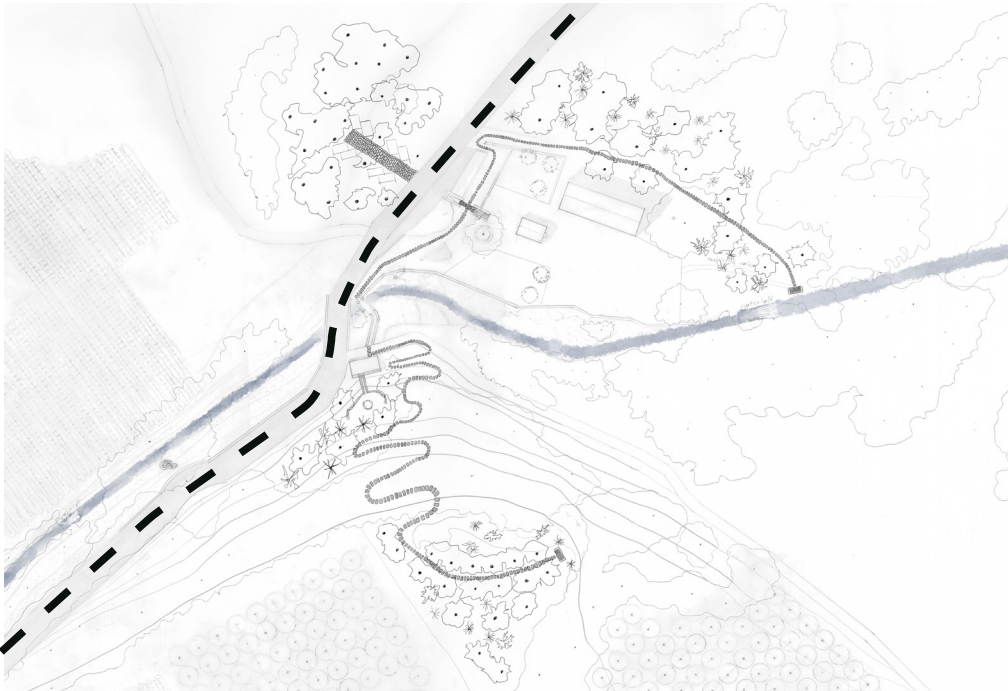
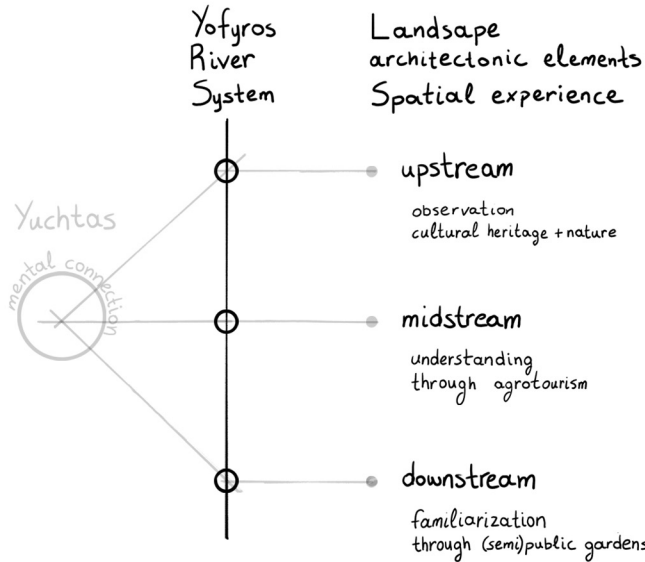
BRIDGING



Area of Effect



BRIDGING



Area of Influence

BRIDGING

