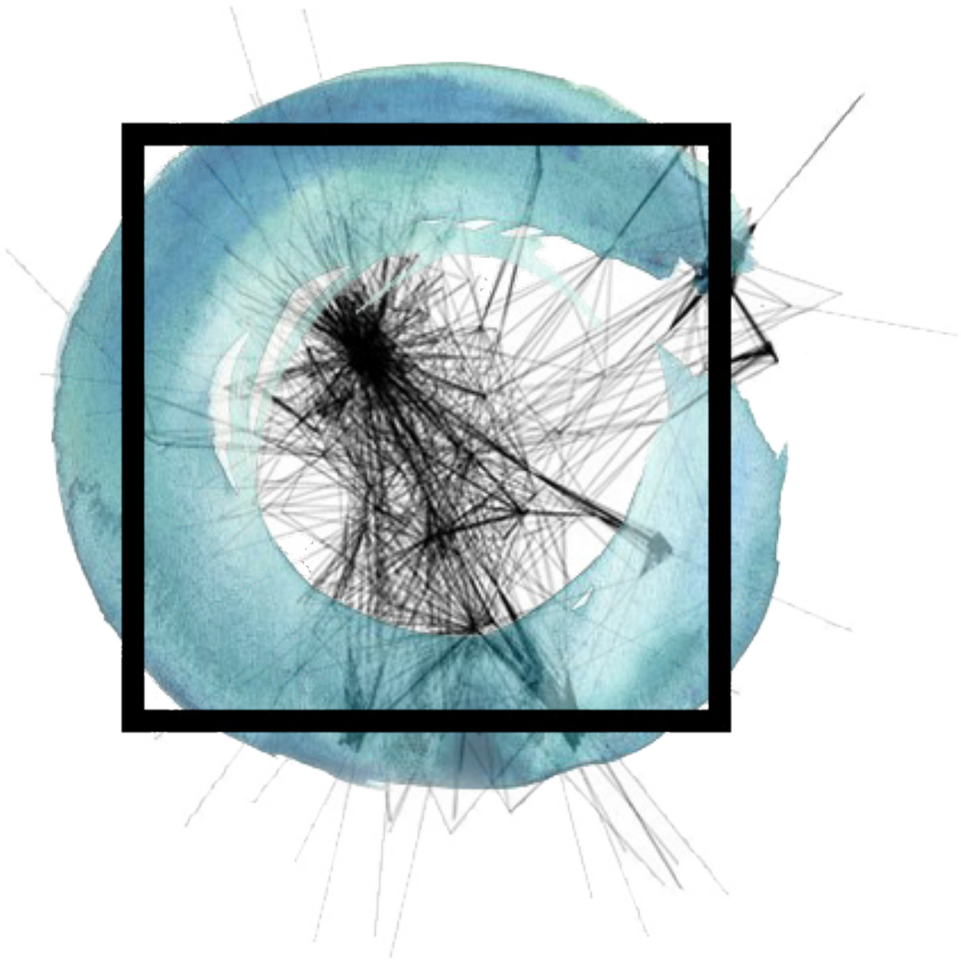
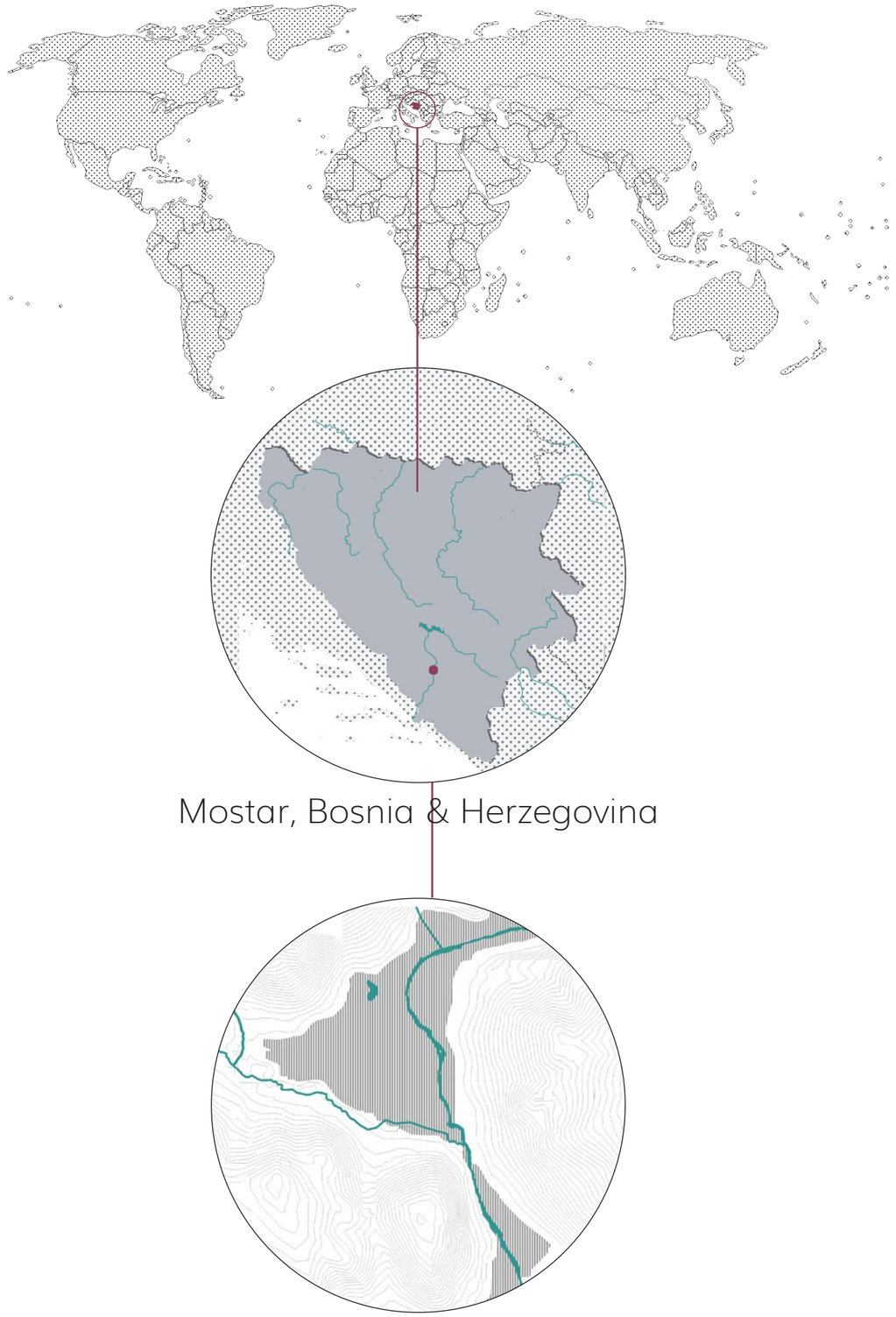
Bordering Chaos

Reinforcing productive relationships in ERODING territories



By Purvika Awasthi

Location



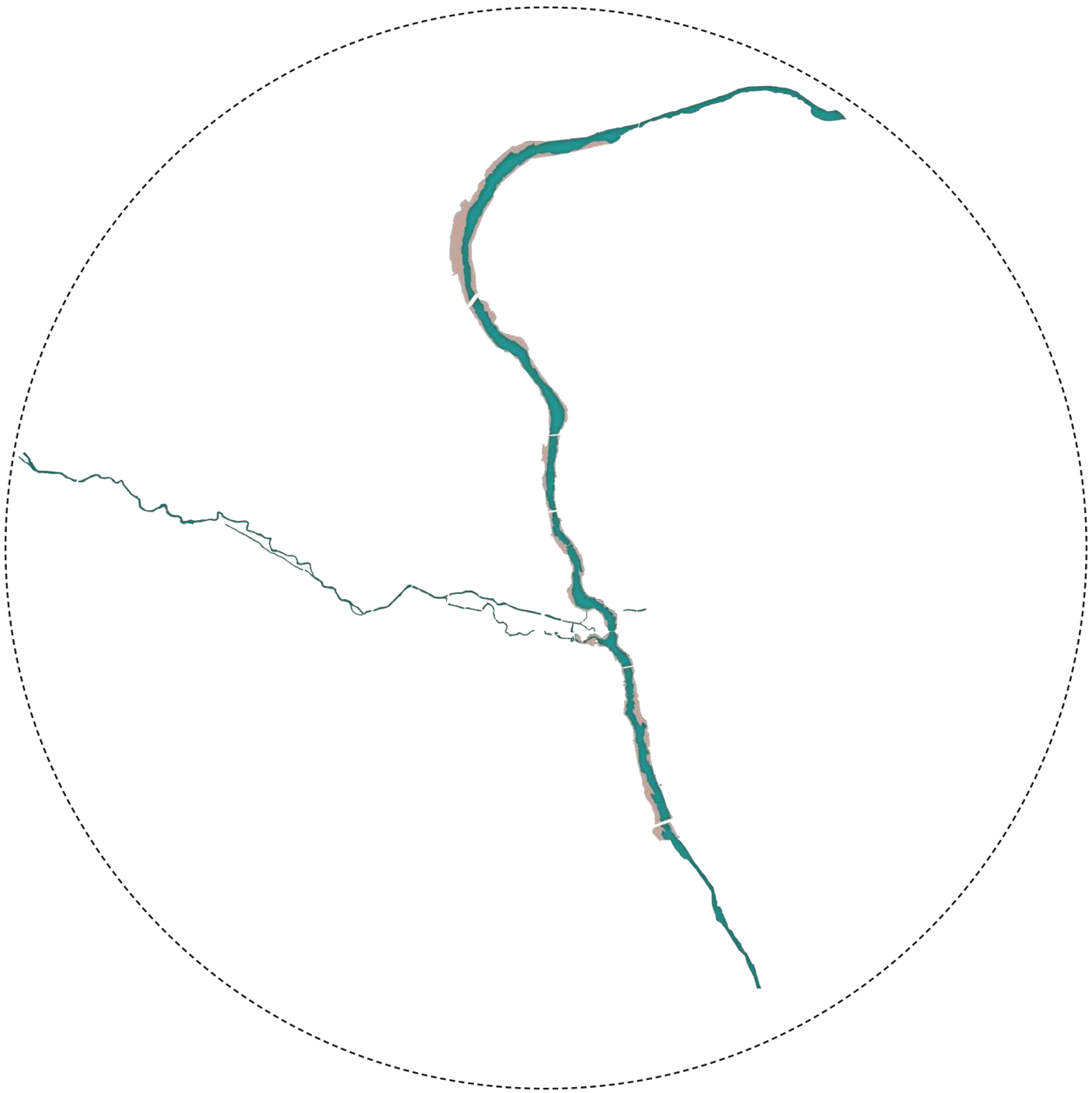
Mostar, Bosnia & Herzegovina

Neretva Valley & the city

Fascination

Ganges in Kanpur, India

Why Neretva?



Entangled affects of Mostar

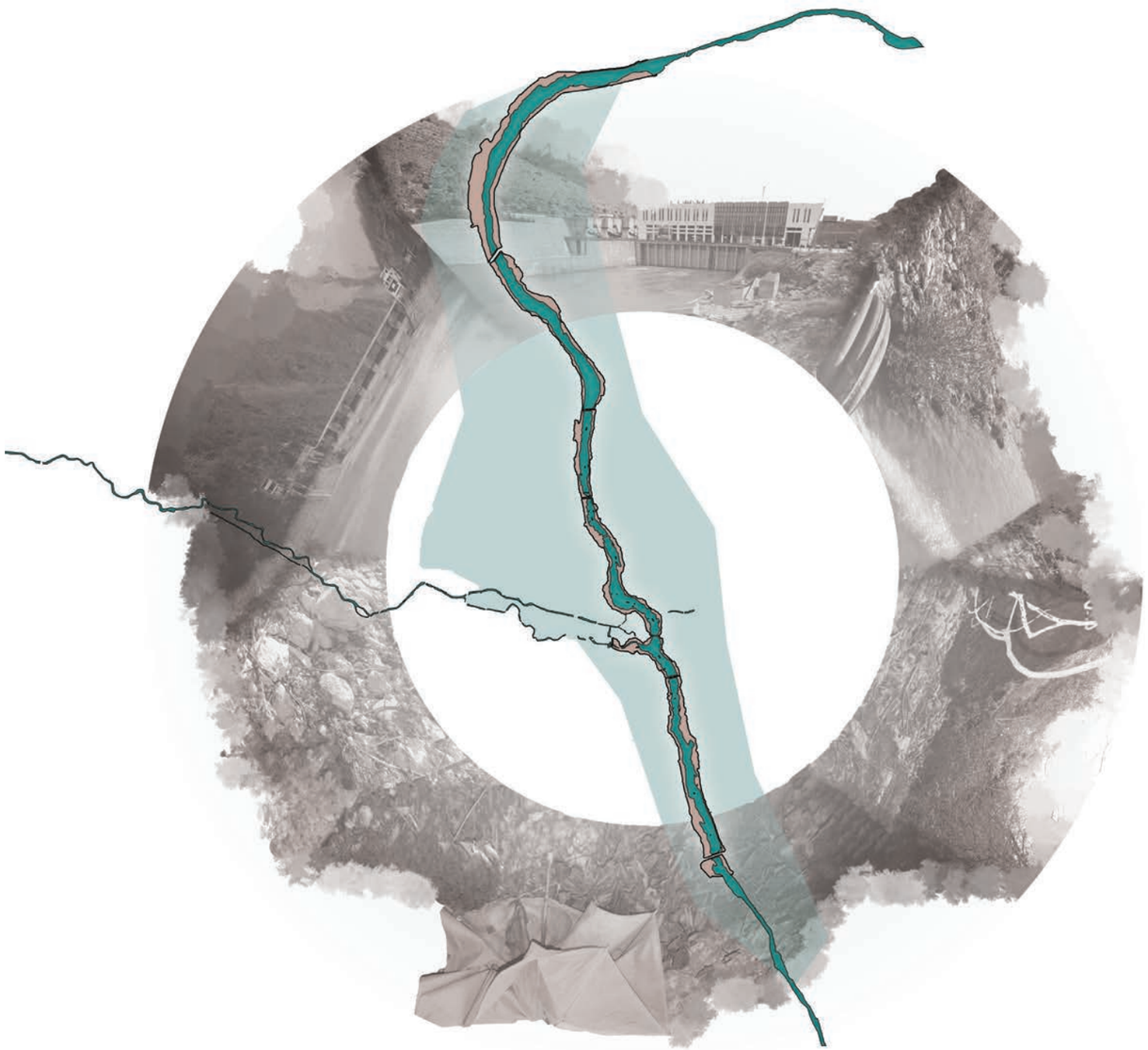
Urban and social transformations affecting Neretva

Energy generation source

Landscape of waste

Mental divide

Natural transformations of Neretva



Flooding

Erosion

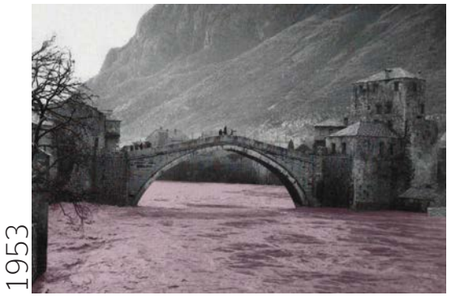
Legend

- Neretva and Radobolja
- Riverbank
- Floodplain of Neretva
- Floodplain of Radobolja
- Direction and range

N

Floodplains and range of flooding

1953



1980

1999

2010

Legend

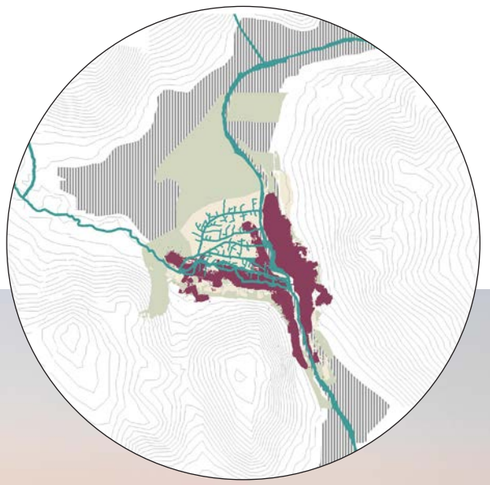
- Neretva and Radobolja
- Riverbank
- Floodplain of Neretva
- Floodplain of Radobolja
- Direction and range

N

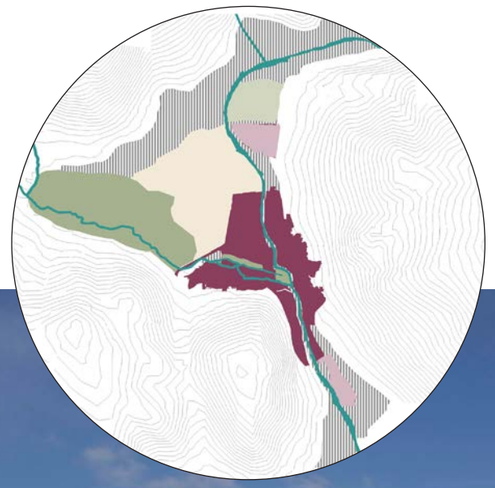
Floodplains and range of flooding

2006 2011 2013 2016 2017 2018

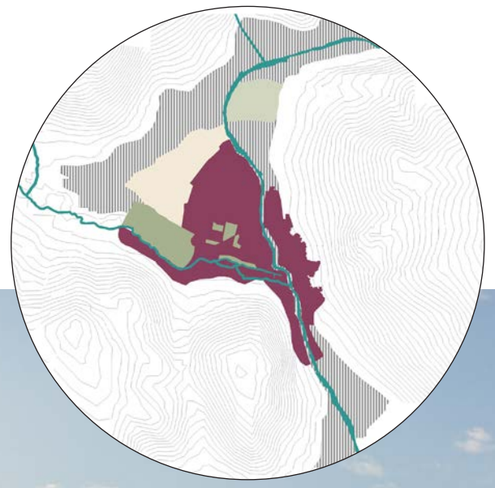
Ottoman Period (1468-1878)



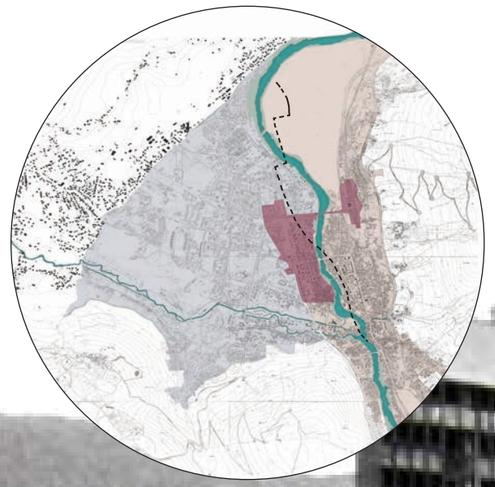
Austro - Hungarian Period (1878-1918)



Yugoslavian Period



Bosnian War, 1992 - 1994



Neretva and Radobolja
River banks
Bosnian side
Croatian side
Buffer zone
Former line front line

The psychological targets were the structures with which people identified themselves and their culture. When the facades of a city are destroyed, its face lies beyond recognition,but when the cultural, historical and public spaces are targeted, It deprives the city of its legibility, disconnecting the inhabitants from their surroundings.
- Arna Mackic (Mortal Cities, Forgotten Monuments)

Heterogeneous Urban Pattern

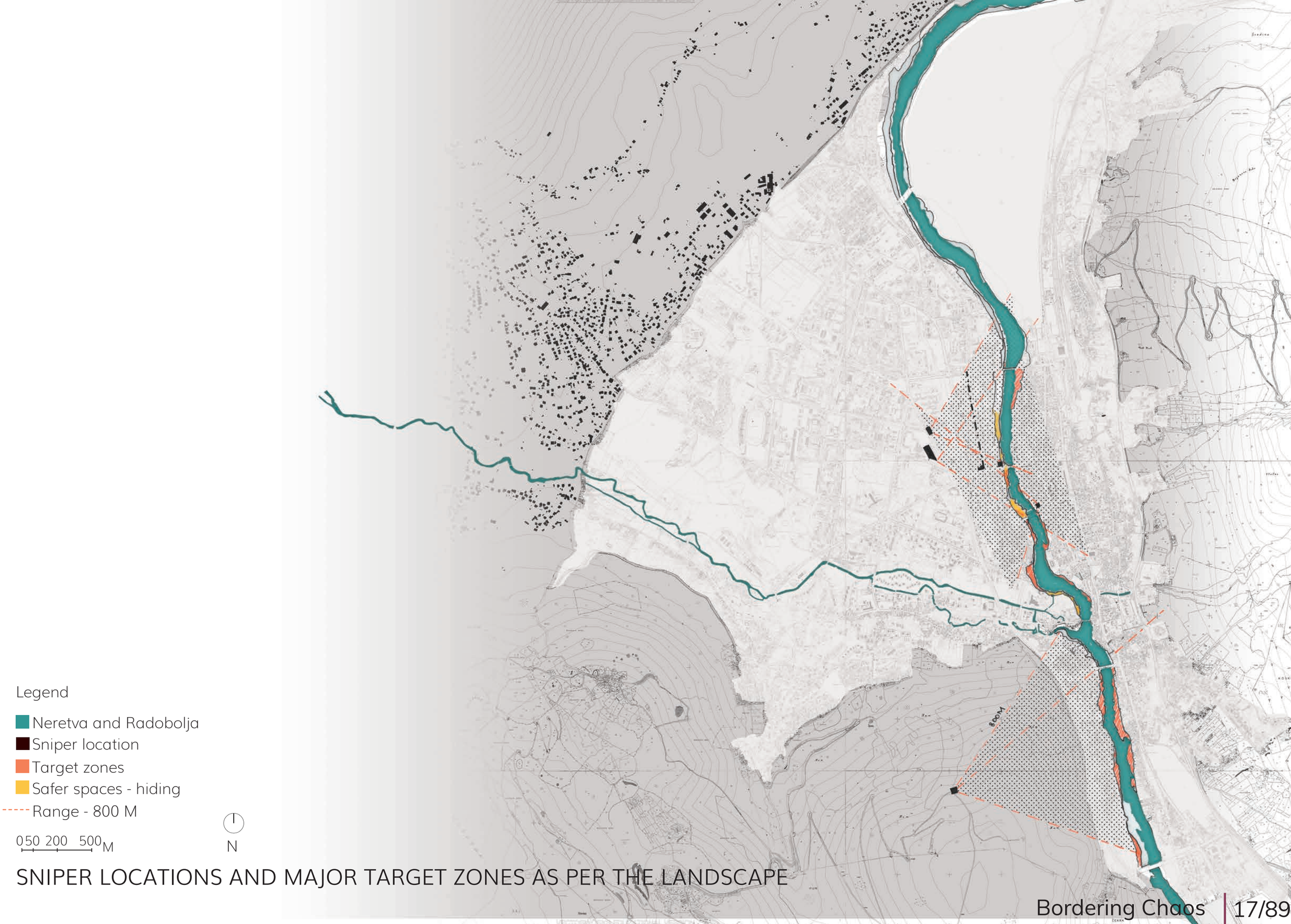
Heterogeneous Urban Pattern

Decaying Social Space

Heterogeneous Urban Pattern

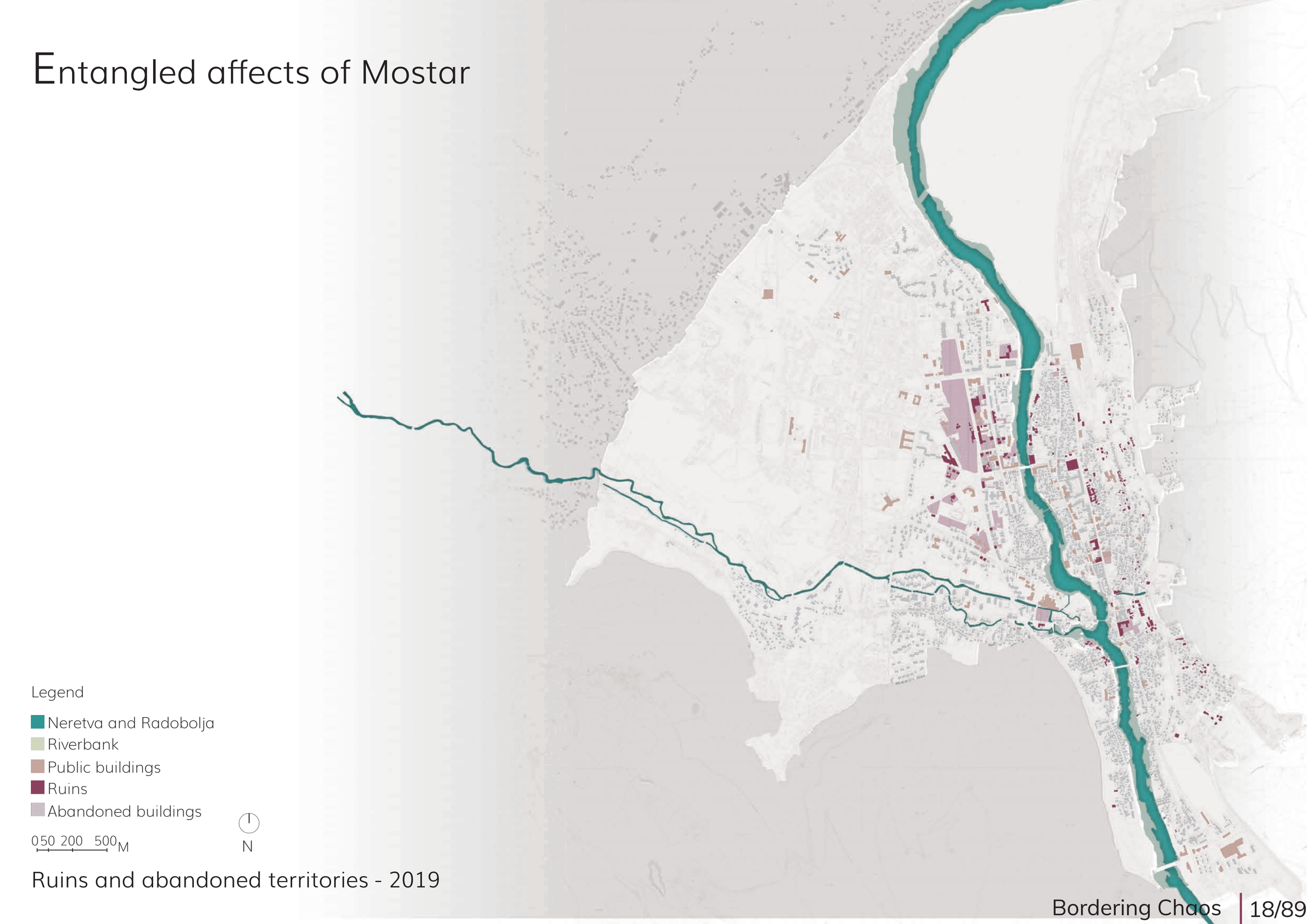
Decaying Social Space

A Landscape of Waste

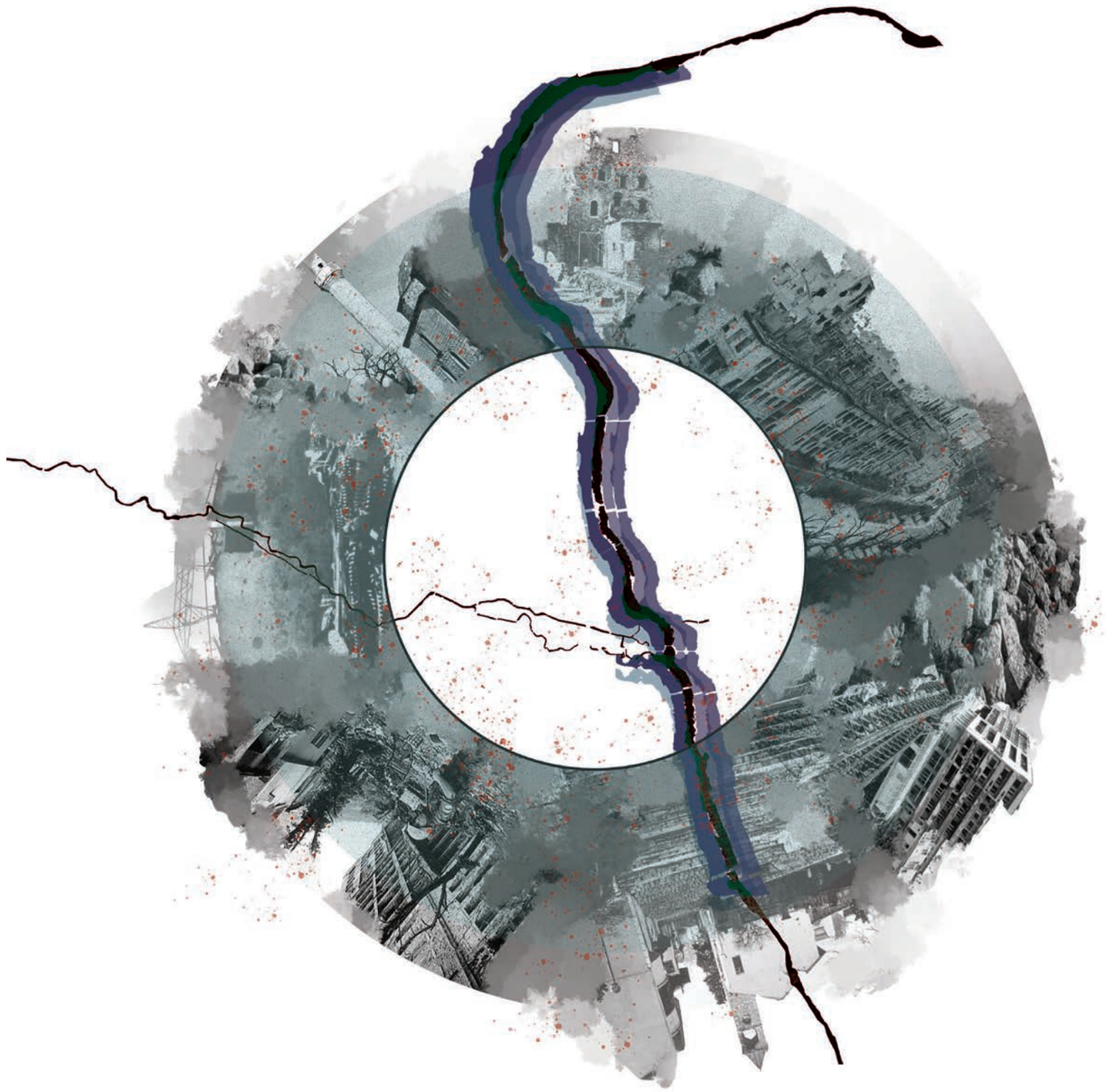


SNIPER LOCATIONS AND MAJOR TARGET ZONES AS PER THE LANDSCAPE

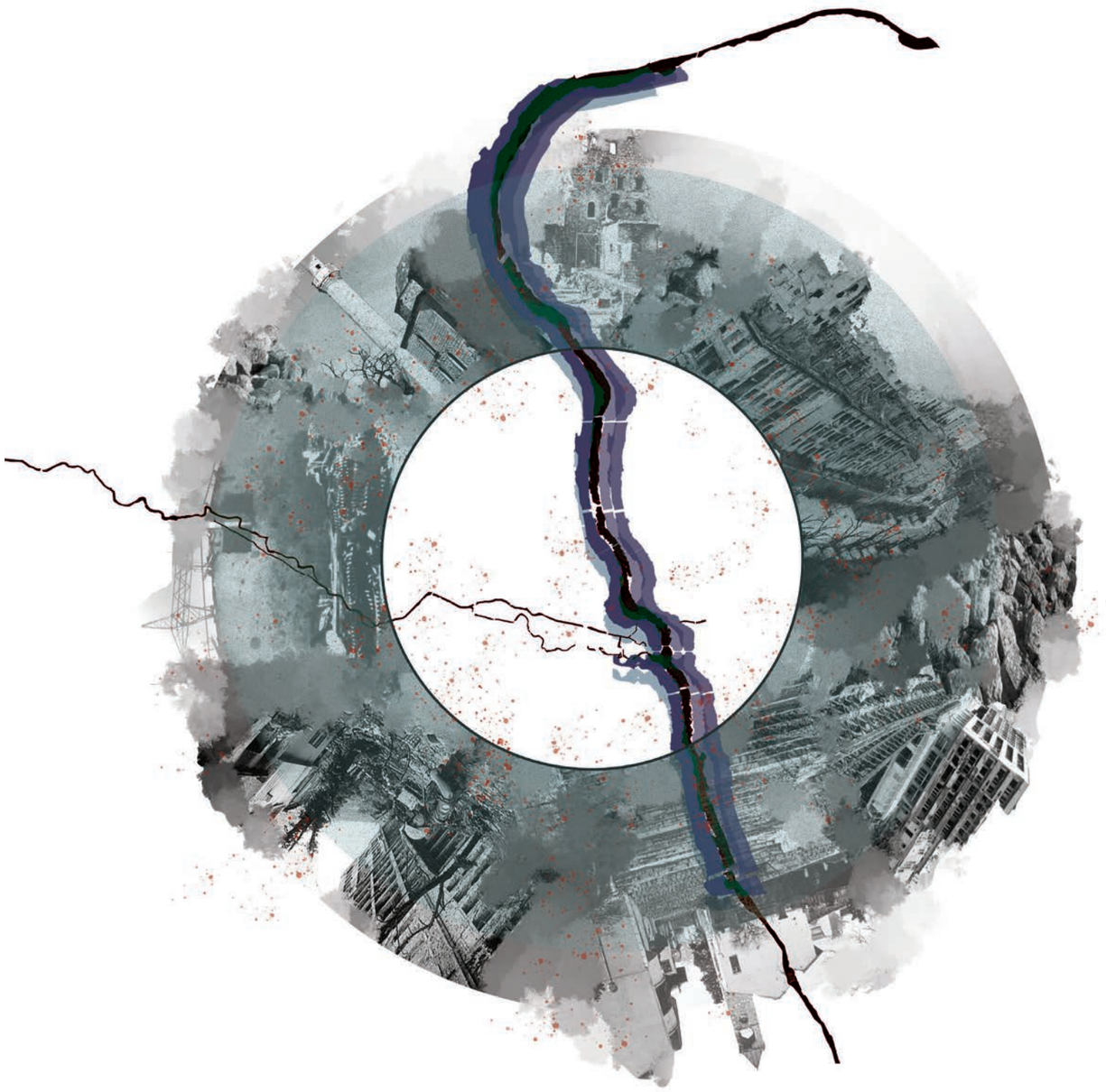
Entangled affects of Mostar



Ruins and abandoned territories - 2019

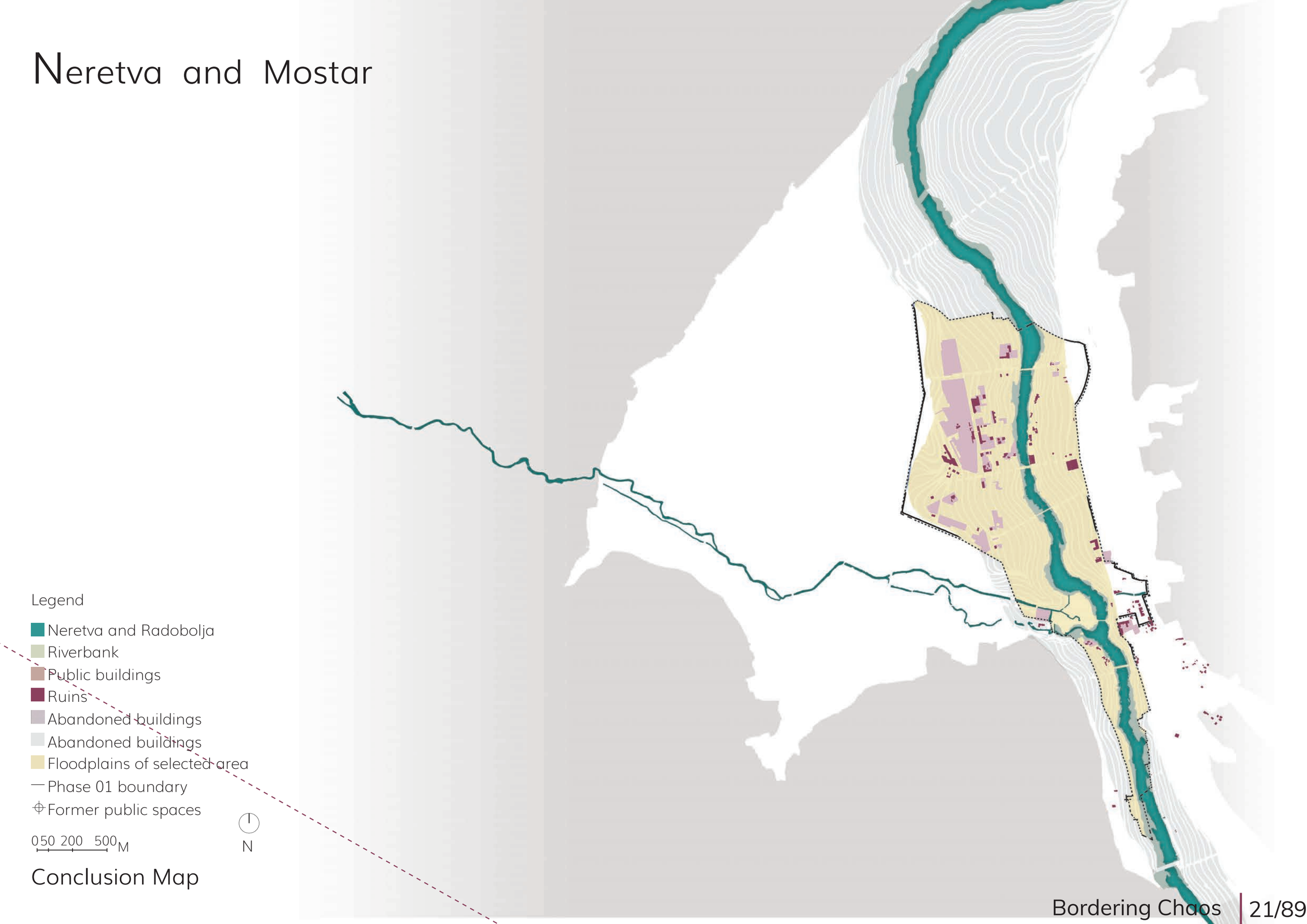


River is War, War is River

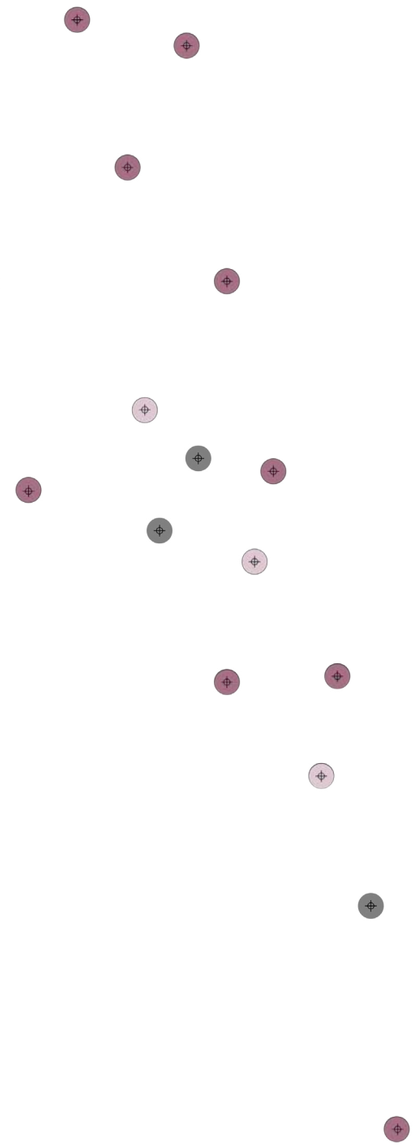


When any phenomenon goes beyond control the damage or addition it does can be compared in both the cases, the war in the past and the river currently are producing similar affects.

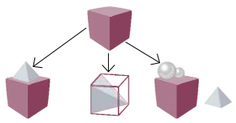
Neretva and Mostar



Conclusion Map

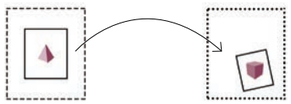


a. THEORIES



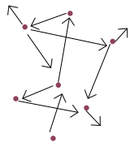
1. Theory of Affordances

2. Chaos, Milieu and Territory



3. Territorialisation and De-territorialisation

4. Desire



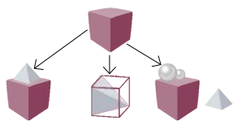
5. Rhizome

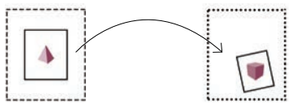
b. STRATEGIES

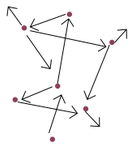
1. Urban Acupuncture

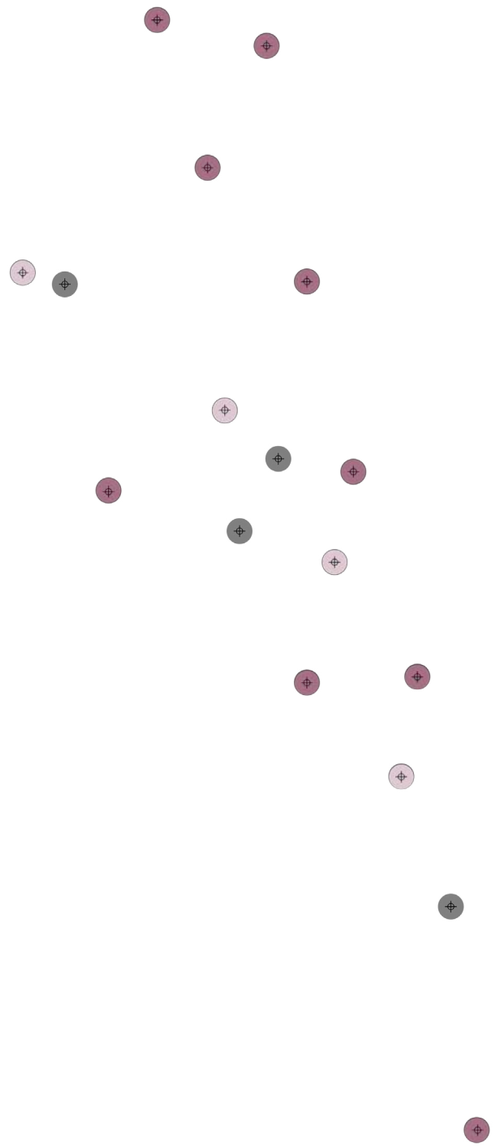
2. Temporality of Landscape

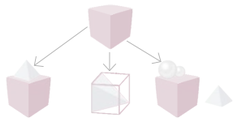
Theoretical Framework

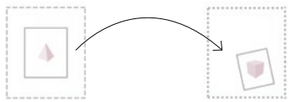


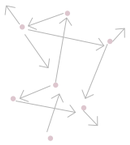


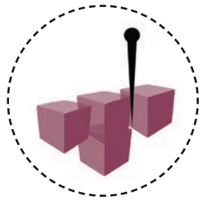


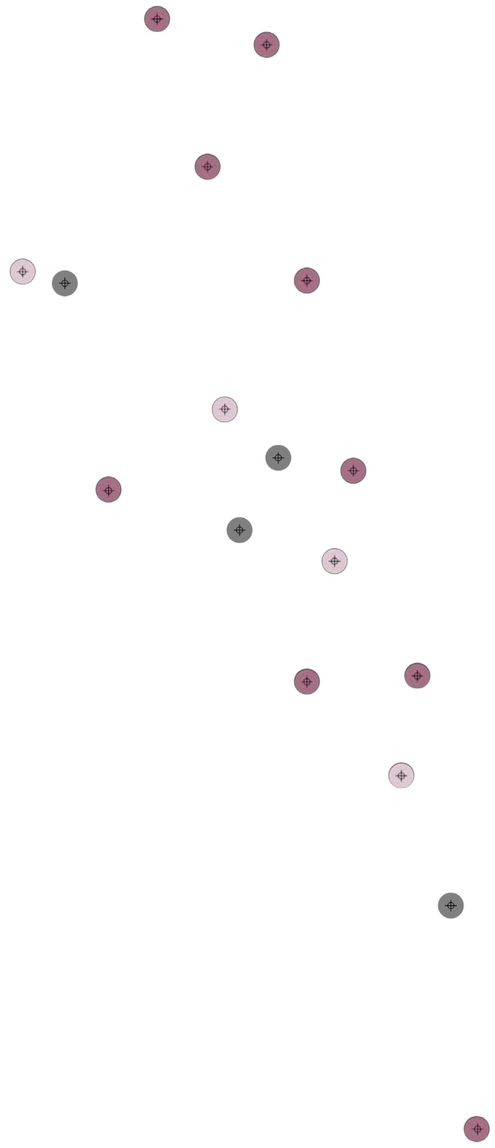






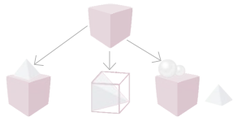


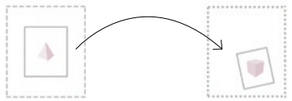


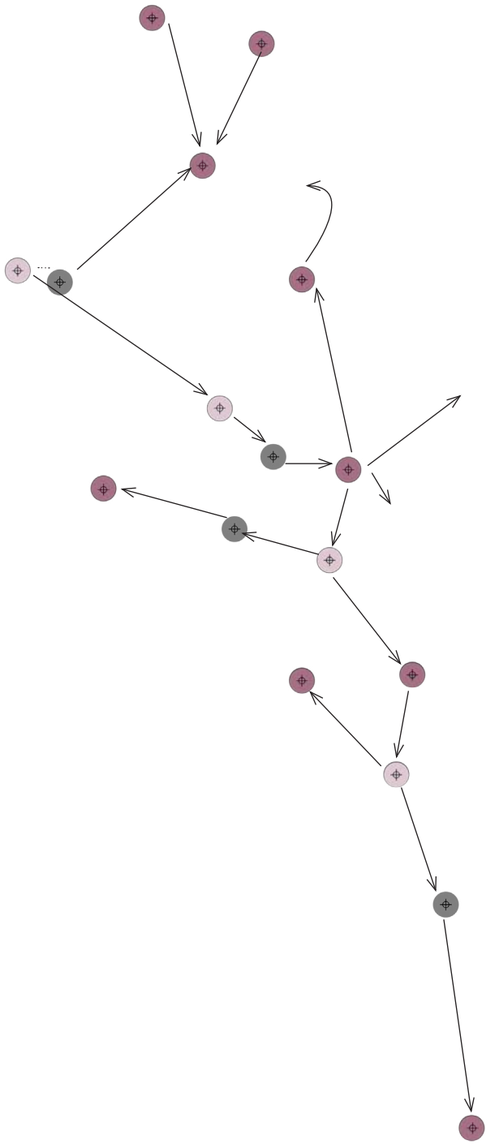


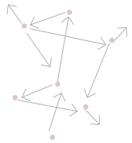
Urban Acupuncture is an urban environmentalism theory which combines urban design with traditional Chinese medical theory of acupuncture.
- Casagrande

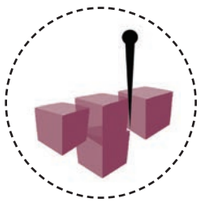
- small-scale interventions to transform the larger urban context.
- small-scale but socially catalytic interventions into the urban fabric.

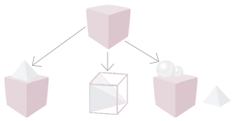


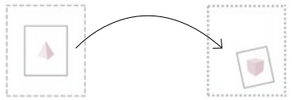


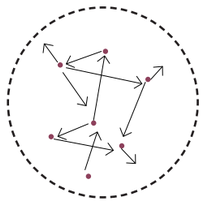


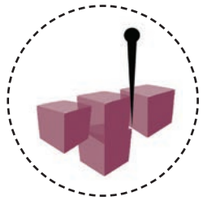




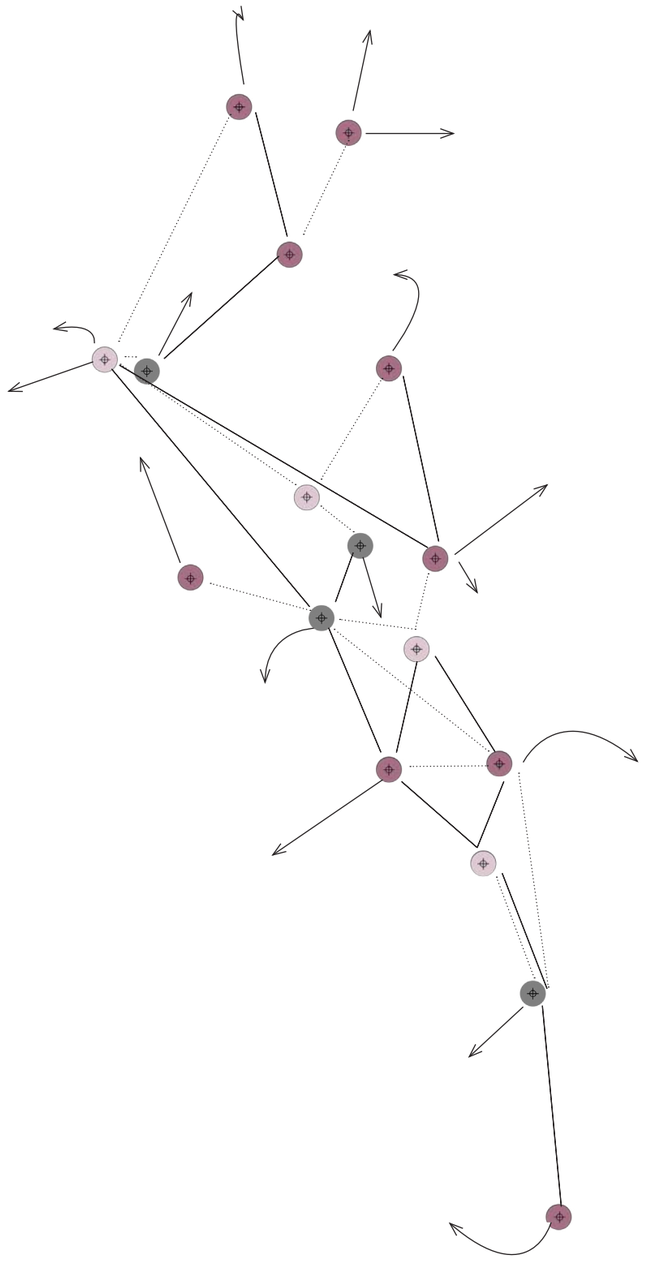








Rhizomatic Network



All the points - interventions are equally important in this network.

No fixed routing

No beginning or end of this network and can grow in whichever direction

All these acupuncture spots can be identified as a part of a larger system by experiential qualities.

The project aims to create a network of social spaces in the city, which enforces social cohesion and stimulates inhabitants to read and write their city.

Research Questions

CAN LANDSCAPE ARCHITECTURE PROVOKE PRODUCTIVE AFFORDANCES IN 'CHAOTIC' HETEROGENEOUS TERRITORIES?

Sub questions :

1. How can social formation(infrastructure – affordances) reconfigure the concept of 'desire'.

2. How can the 'degree of power' (what it 'can do') of abandoned or not defined elements can be exhumed through design.

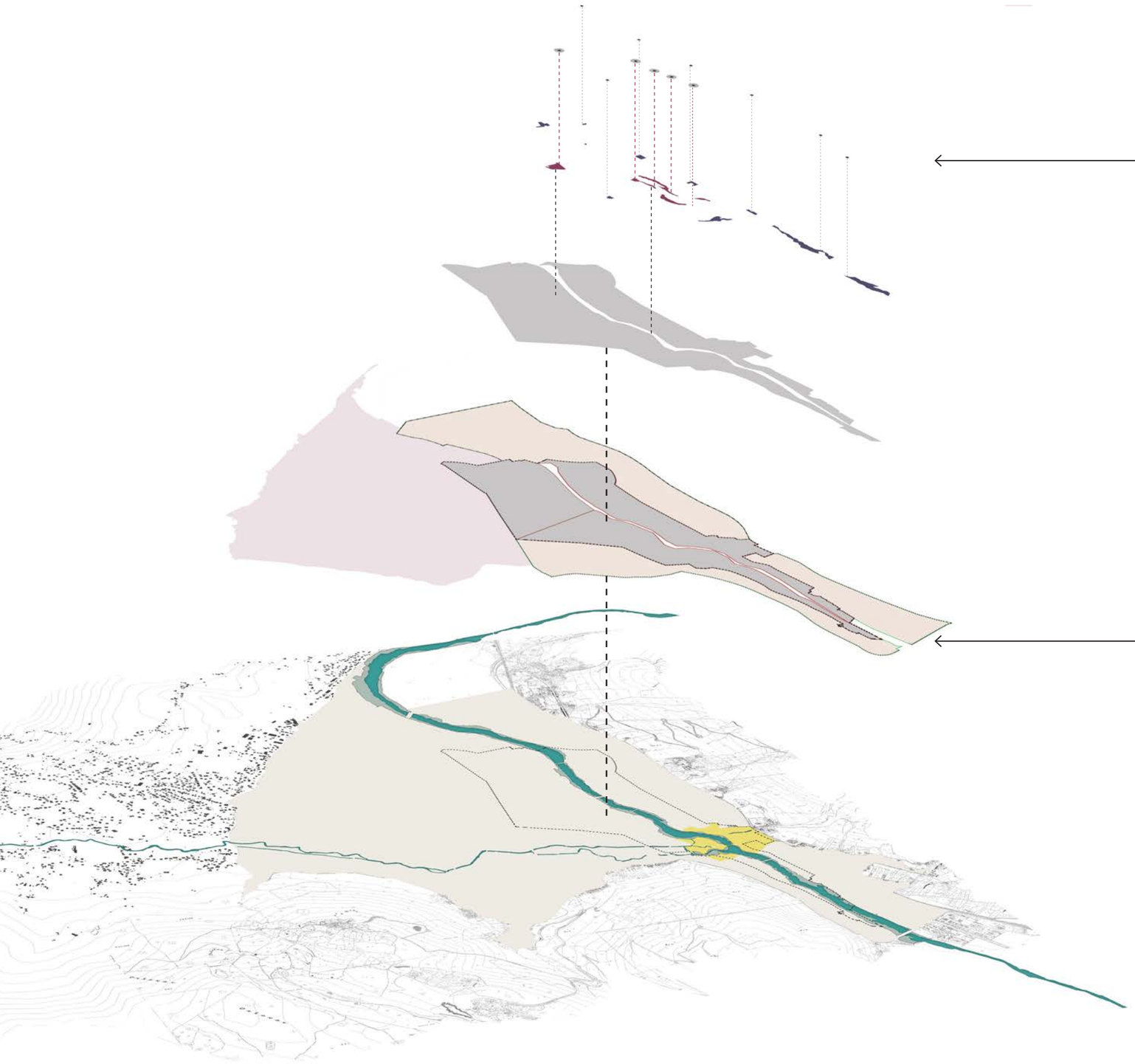
3. How can the temporality of landscape like erosion & flooding be interpreted productively through to create adaptive landscapes. What strategies can be adopted for the same?

4. Does limiting or being selective about affordances empowers a territory? How can more productive affordances be identified and highlighted through design?

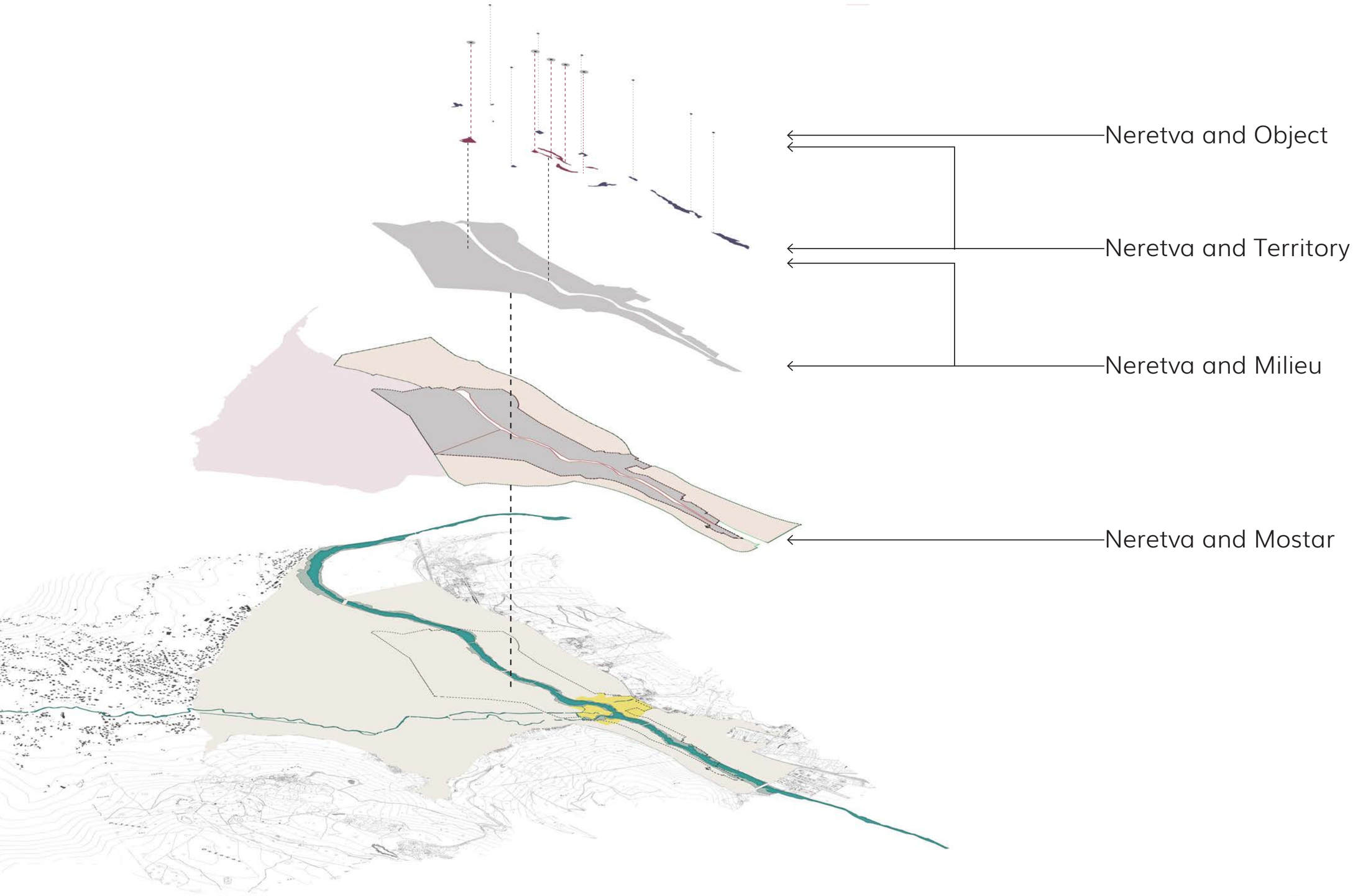
5. How can a rhizomatic network be created by using the concept of territorialisation and de-territorialisation.

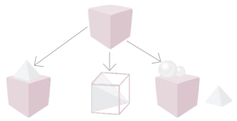
6. How to contribute to the perspective of the city which overlaps with the idea of various stake-holders like war survivors, migrants, tourist and children?

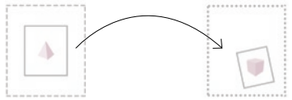
Scales - Chaos, Milieu, Territory and Object

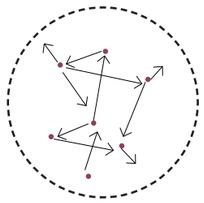


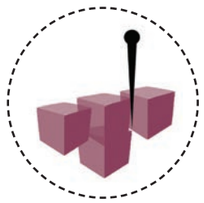
Scales - Chaos, Milieu, Territory and Object



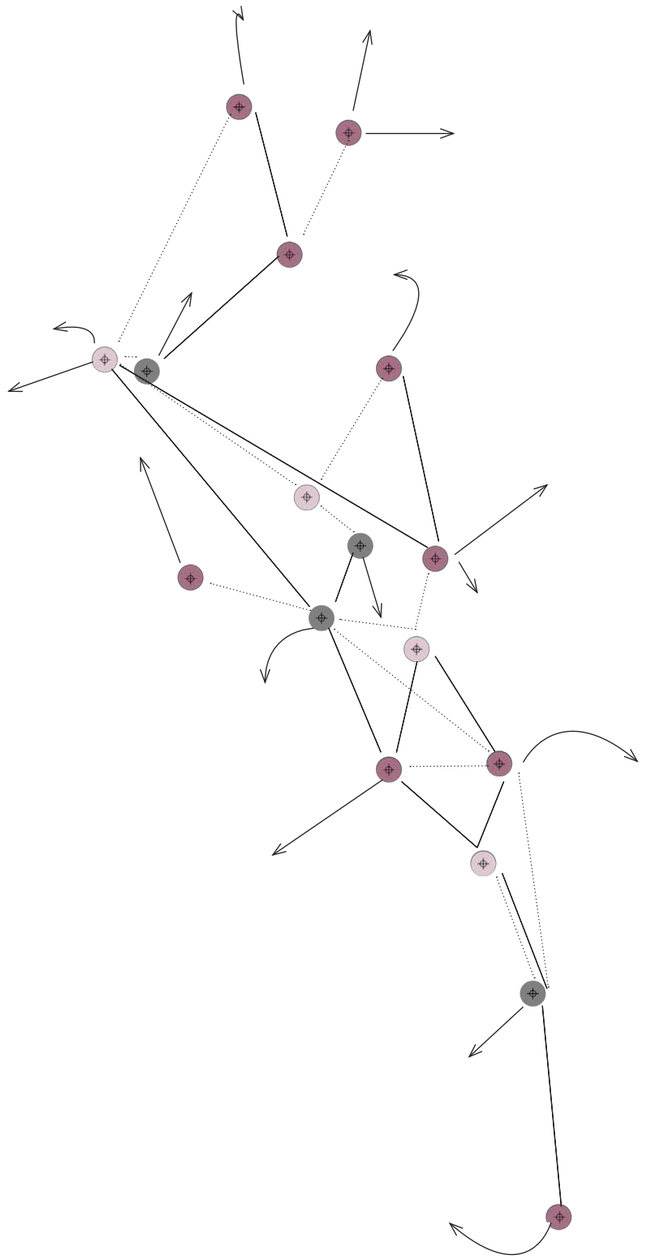








Rhizomatic Network



Neretva and Milieu

Legend

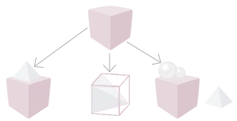
- Neretva and Radobolja
- Riverbank
- Old town
- Intervention sites - Milieu
- Boundary of phase 01

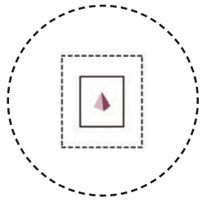
0 50 200 500 M

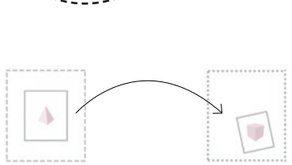
N

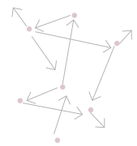
Territories picked for Initiation Process

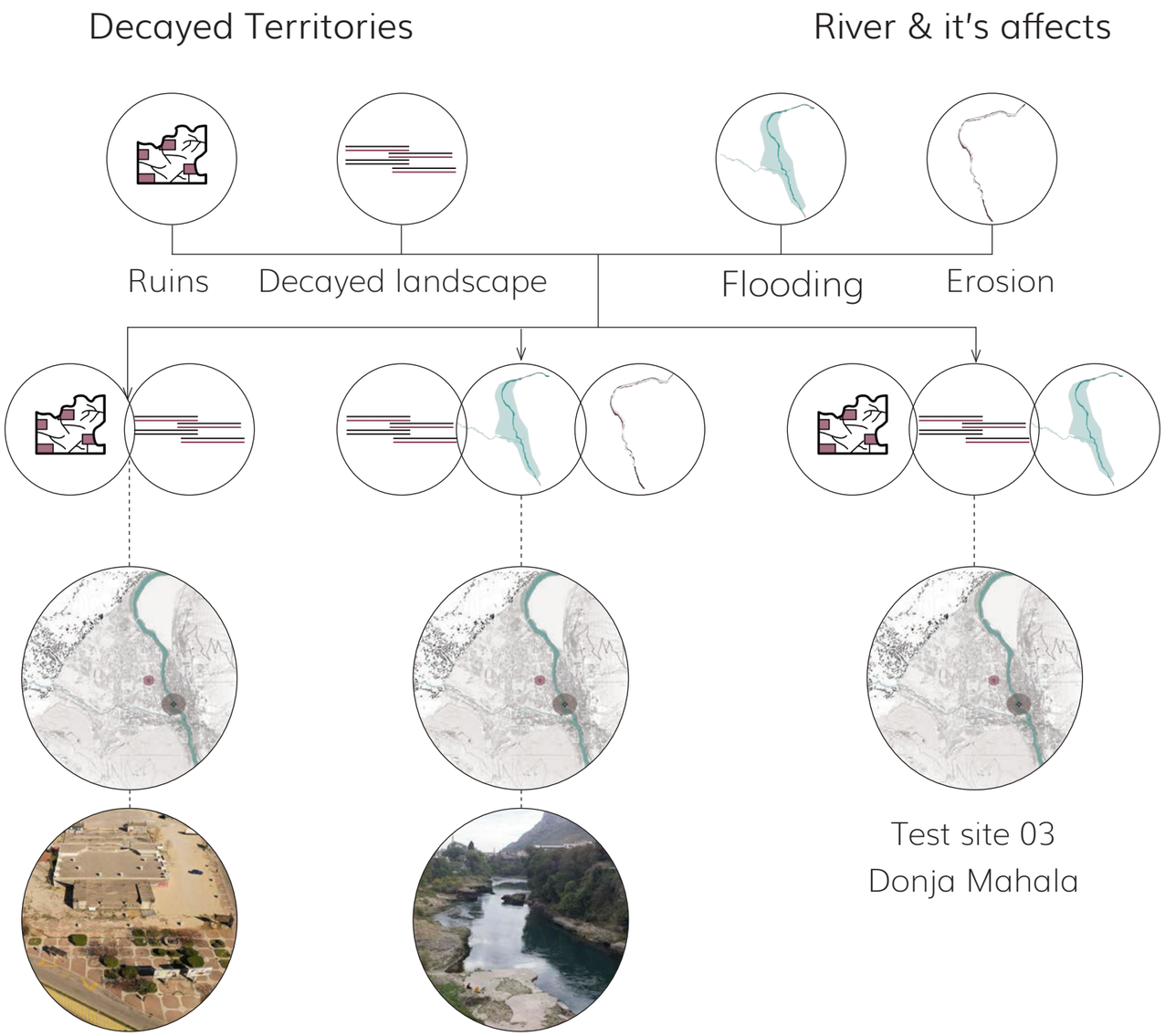
Neretva and Milieu











Test 01

Square outside HIT

Test site 02

Between Bunur and Stari Most

Test site 03

Donja Mahala

Legend

Riverbank
Stari Most
Test sites
Boundary of phase 01

0 50 200 500 M

N

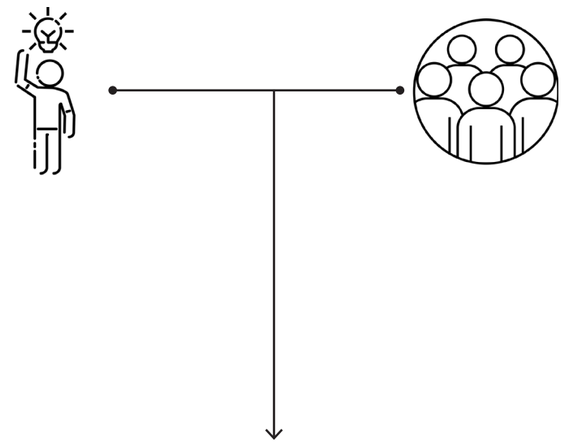
Location of Test Sites

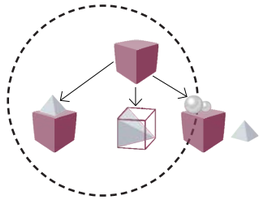
Along Neretva - Between Bunur and Stari Most

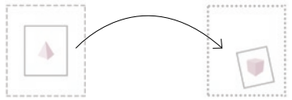
2019

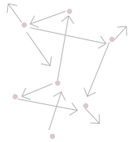
1994

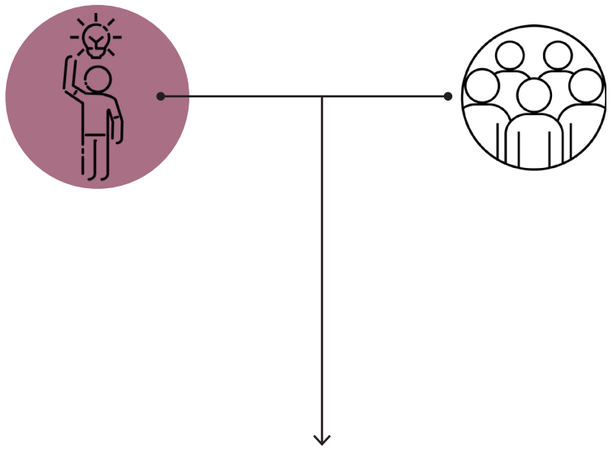
1970


Design

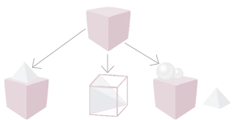


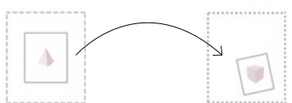


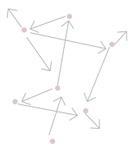


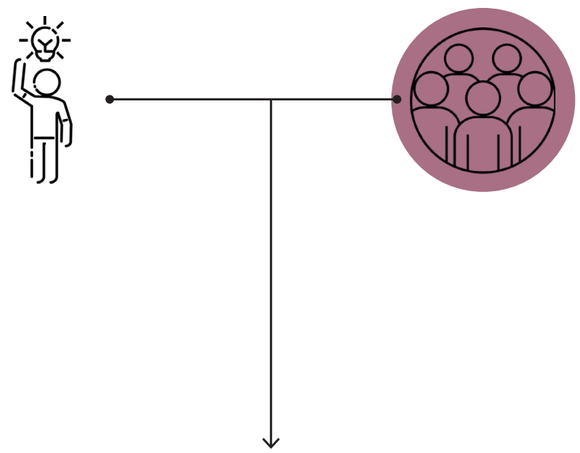


"The affordances of the environment are what it offers the animal, what it provides or furnishes, either for good or ill" - Gibson, 1979









Design

“Desire” - refers to the state of our unconscious drives and inclinations. - Deleuze

“What can I do, what am I capable of doing” - Jun & Smith

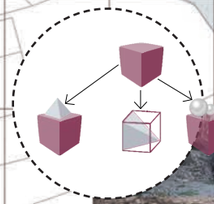
Spatial Analysis

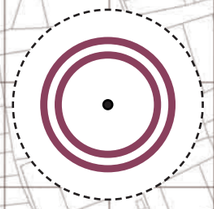
Translating and demarcating desires or feelings as per existing spatial and natural conditions on site

Legend

- Permanent
- Temporary
- Neretva

N





Spatial Analysis

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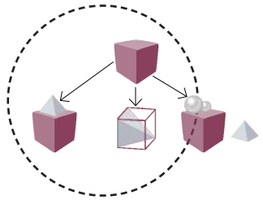
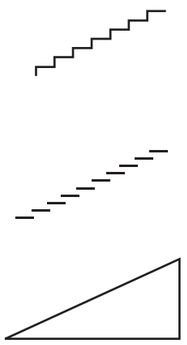


Design Tools

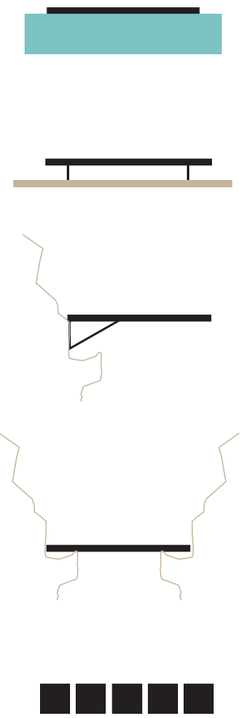
Combination of these elements and objects are used to create an environment that is a combination of Affordance and Desire

Path

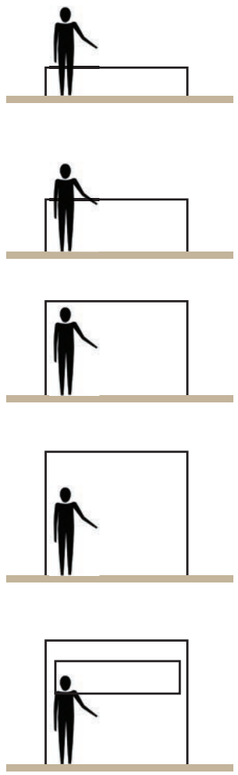
Staircase/Ramp



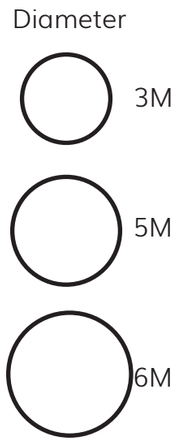
Platform



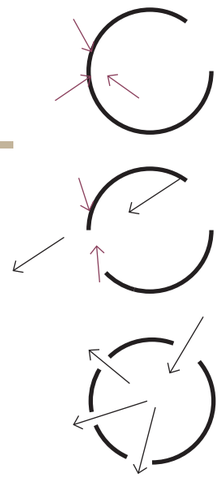
Wall



Volume



Opening



Pole

Material

Vegetation

Neretva and Object

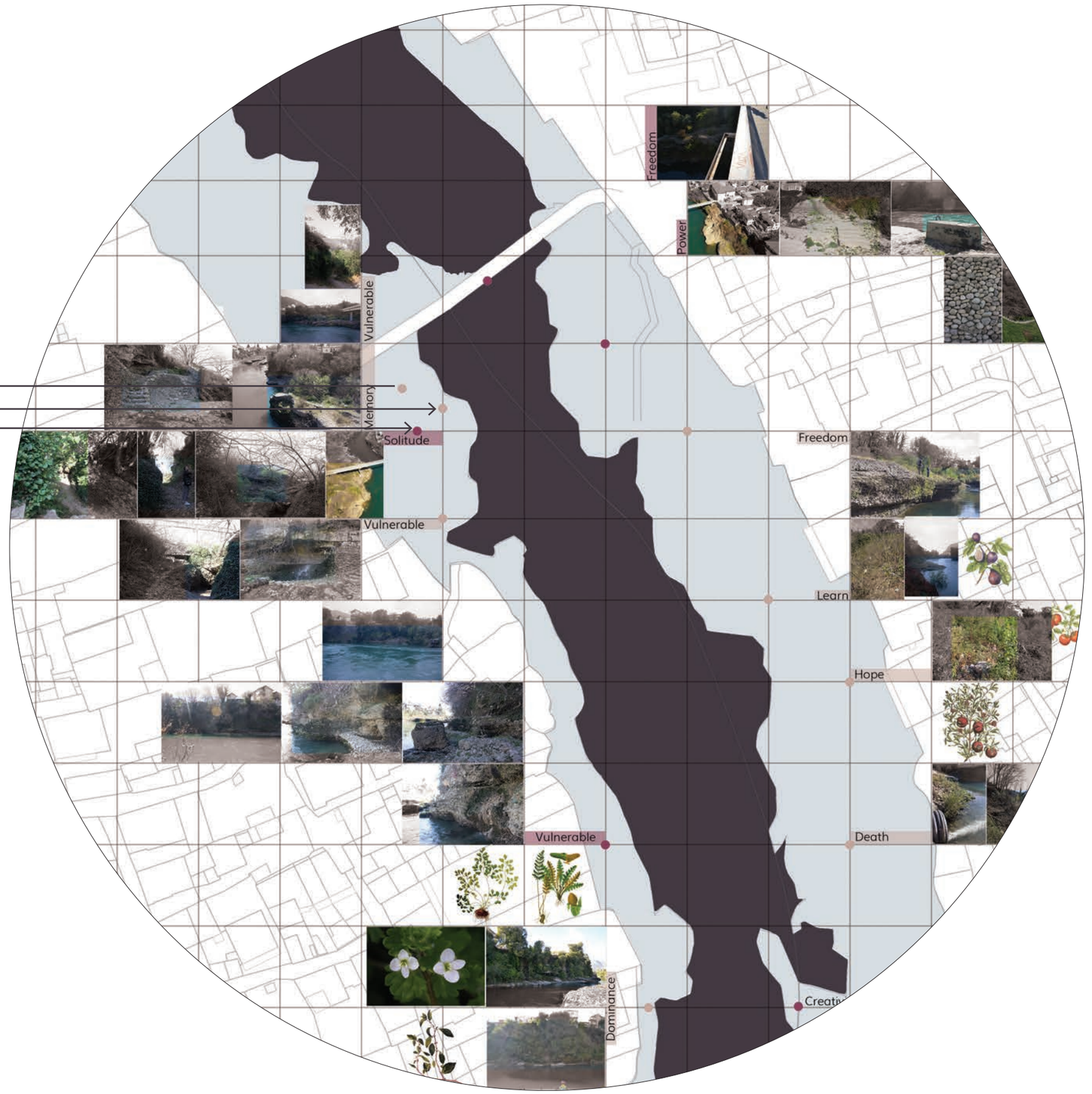
Location

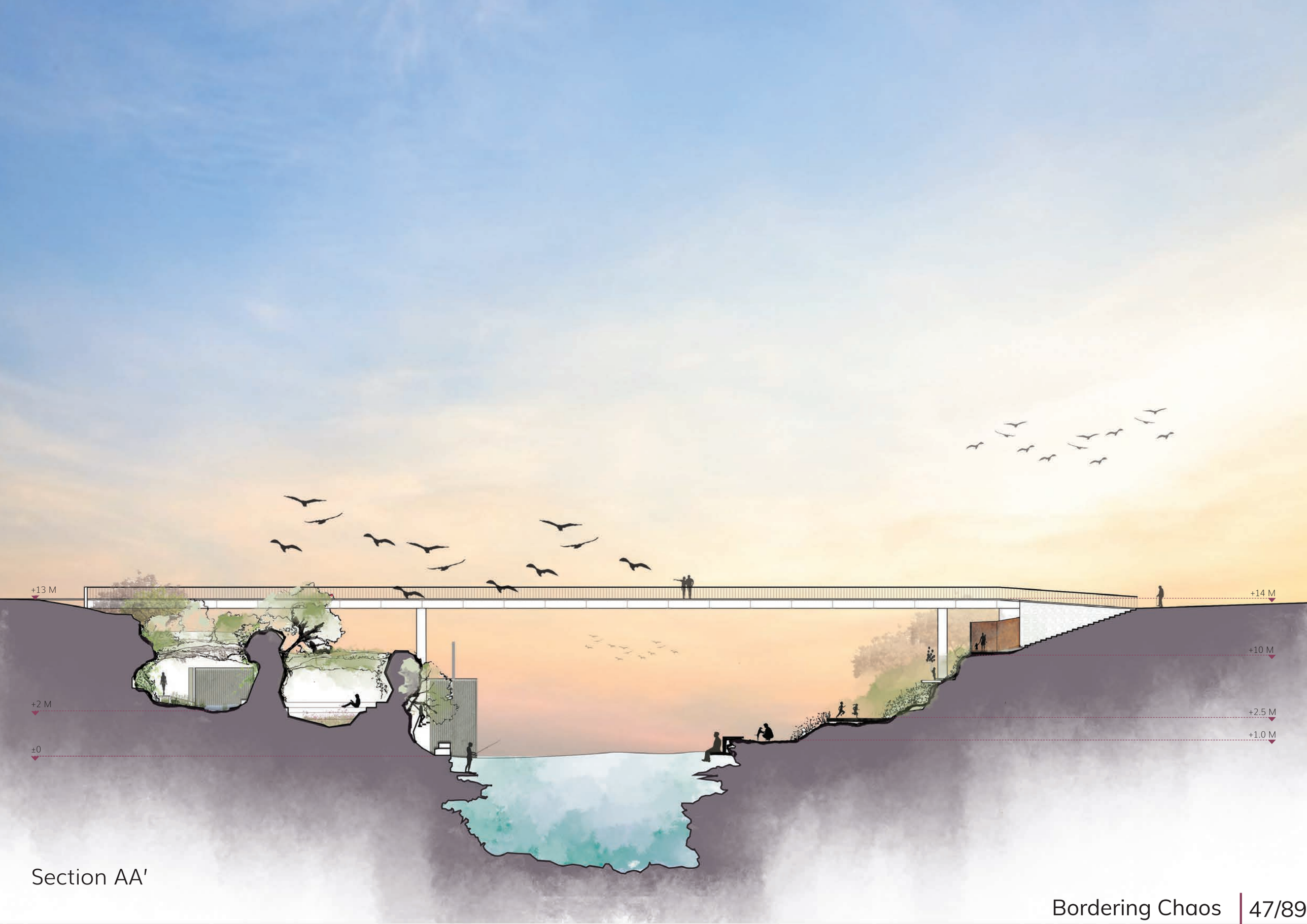
Location

Vulnerability

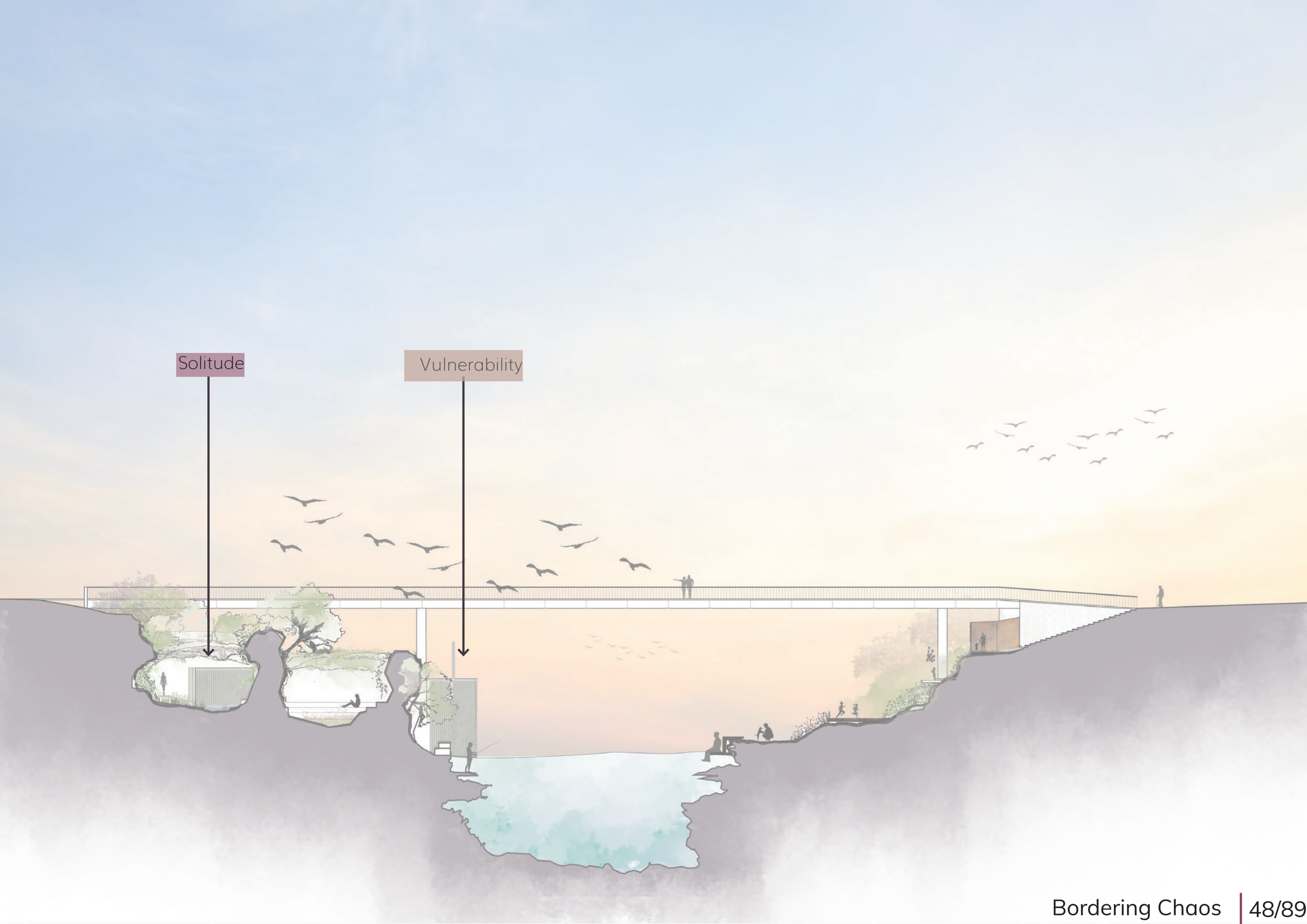
Memory

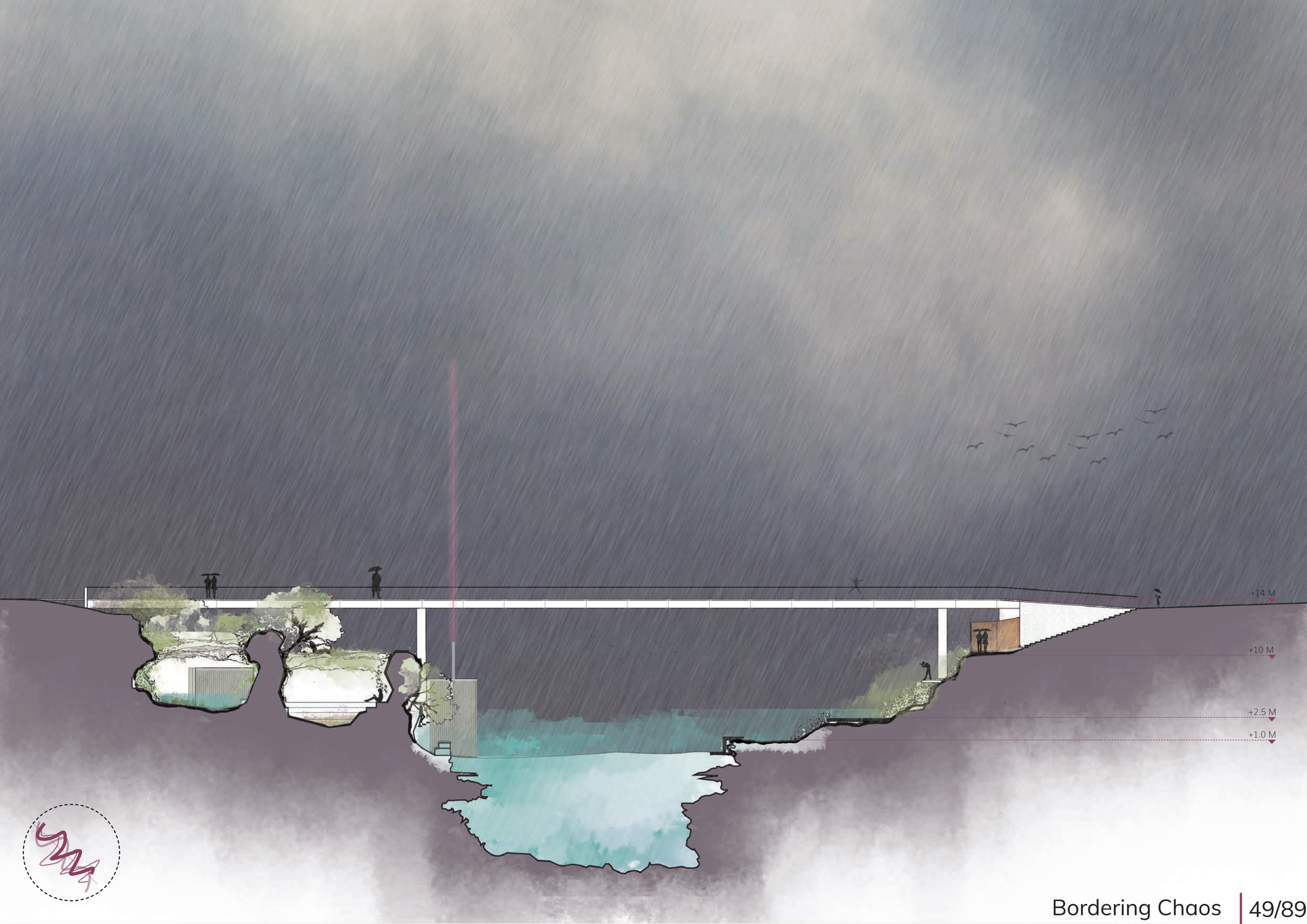
Solitude

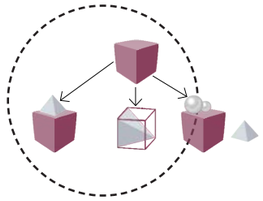




Section AA′

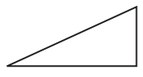

Solitude
Vulnerability

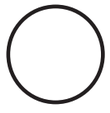

+14 M
+10 M
+2.5 M
+1.0 M



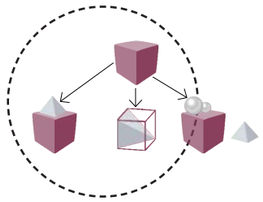
Solitude

.75M

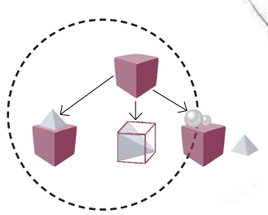


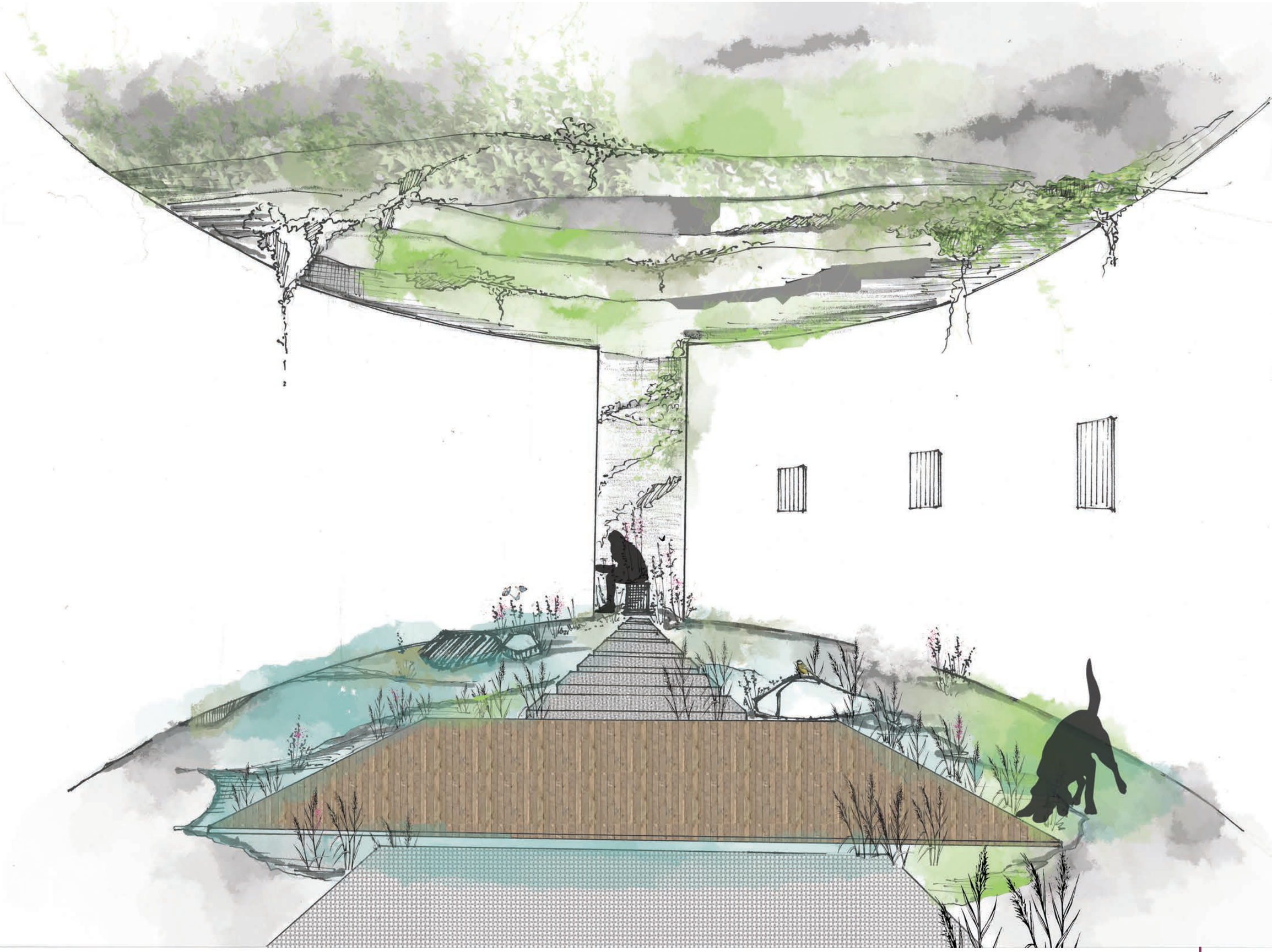


5M



Solitude

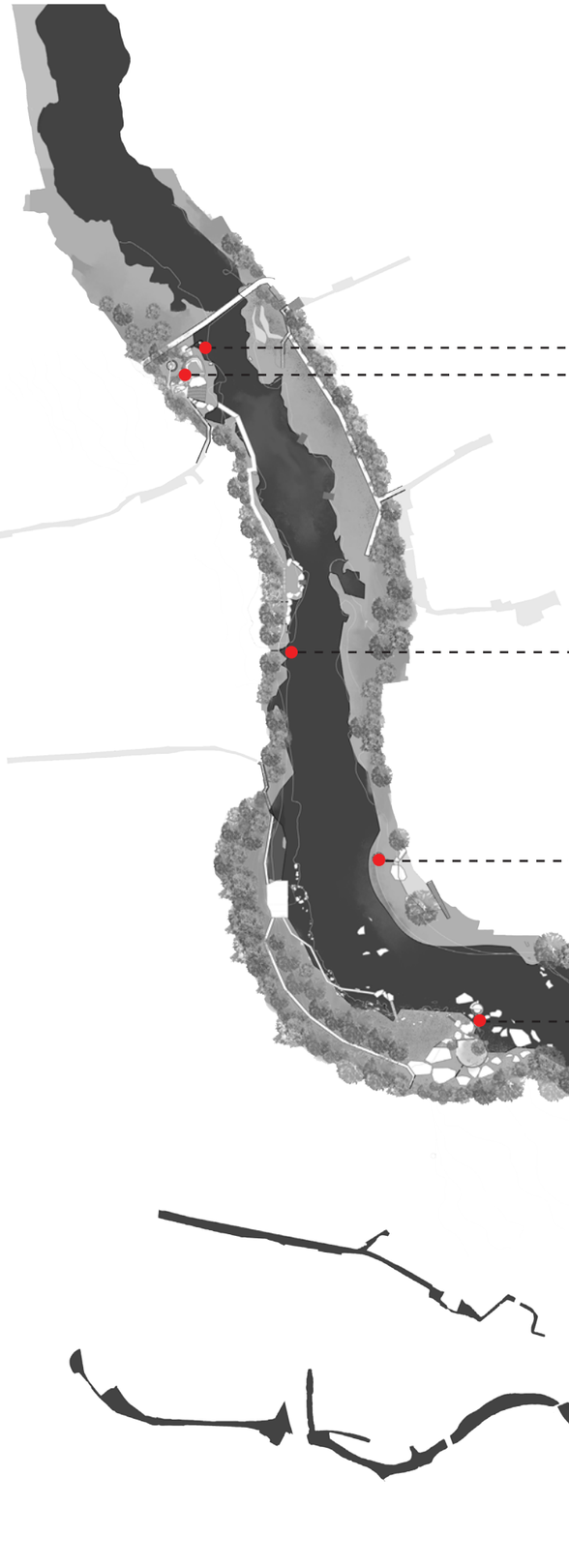


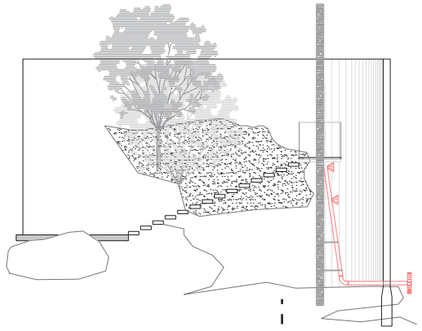


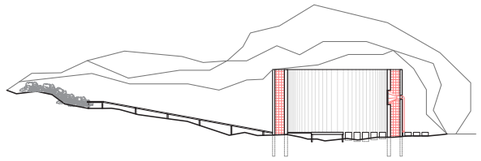
Vulnerability

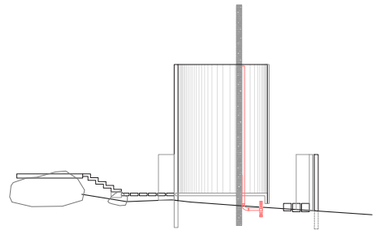
Vulnerability

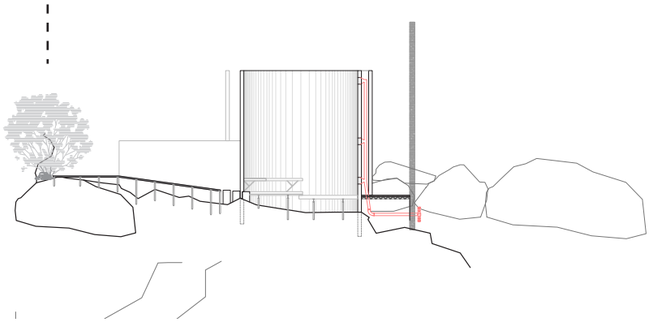
Neretva and Territory

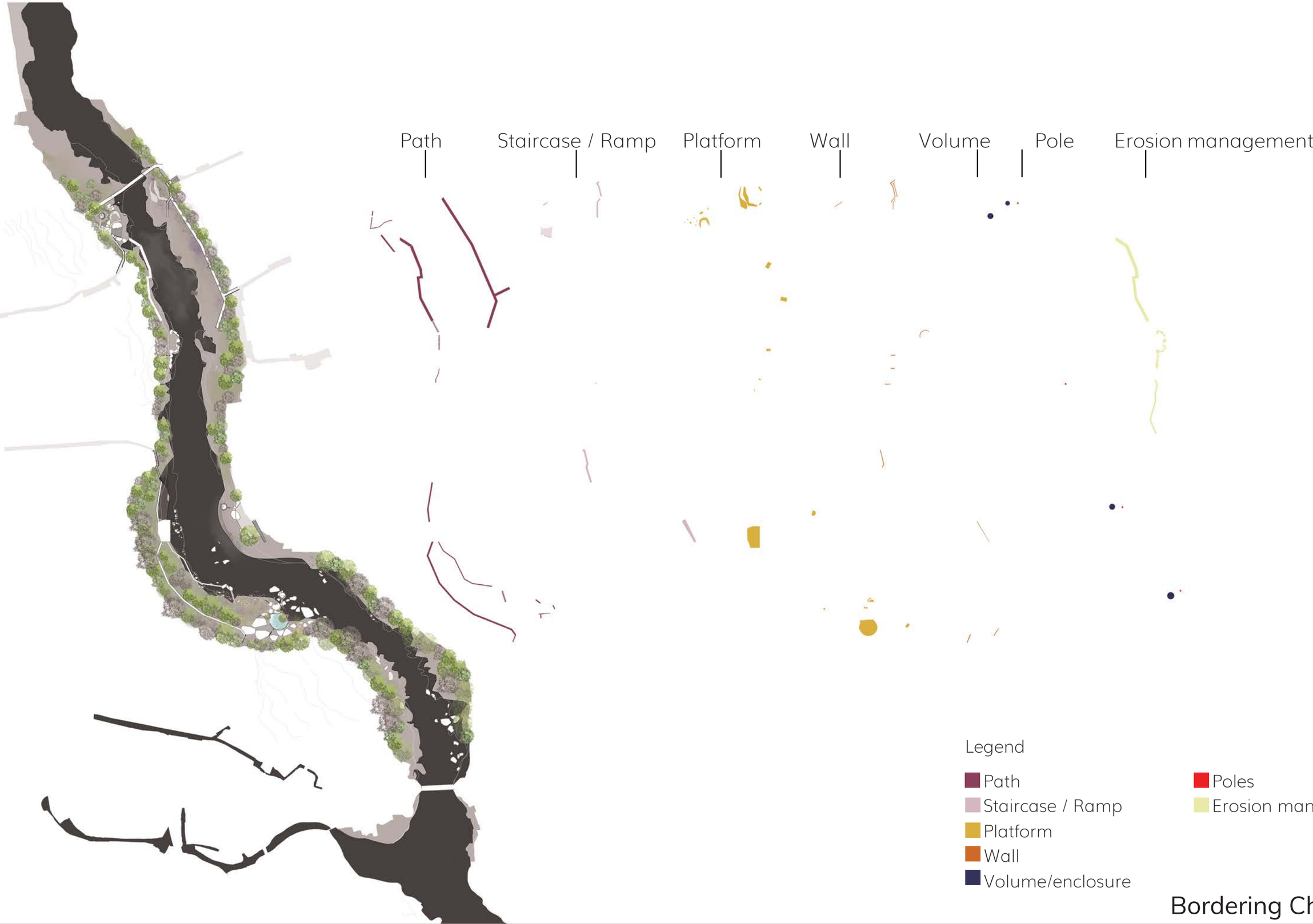











Path
Staircase / Ramp
Platform
Wall
Volume
Pole
Erosion management
Legend
Path
Staircase / Ramp
Platform
Wall
Volume/enclosure
Poles
Erosion management
N

Legend

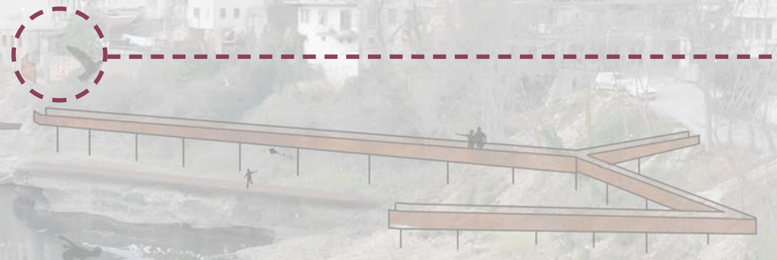
- Neretva and Radobolja
- Riverbank
- Platforms - Corton steel
- Pathways
- Access roads

0 10 30 50 100 M

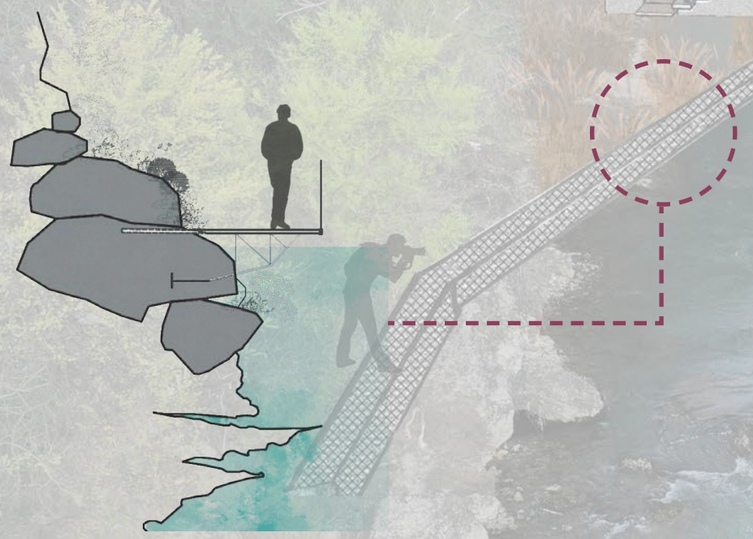
N

Layout at Test site 01 - Bunur to Stari Most

Detail 01 of the erosion barriers cum walkway



Access points directing the view and giving the idea of enclosure



Detail 02 of the erosion barriers cum walkway

Legend

Riverbank
Stari Most
Test sites
Boundary of phase 01

0 50 200 500 M

N

Location of Test Sites

Square outside HIT

2019

1994

HIT
HIT
1970

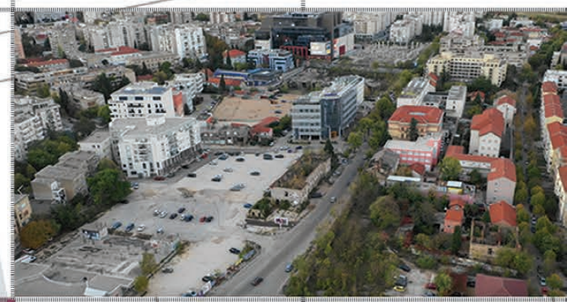
Spatial Analysis

Translating and demarcating desires or feelings as per existing spatial and natural conditions on site and surroundings

Legend

- Permanent
- Temporary
- HIT

N



Death

Dominance

Vulnerable

Loneliness

Hope

Spatial Analysis

anslating and demarcating desires or
gs as per existing spatial and natural
conditions on site and surroundings

Legend

- Permanent
- Temporary
- HIT

N

Death

Hope

Dominance

Cold

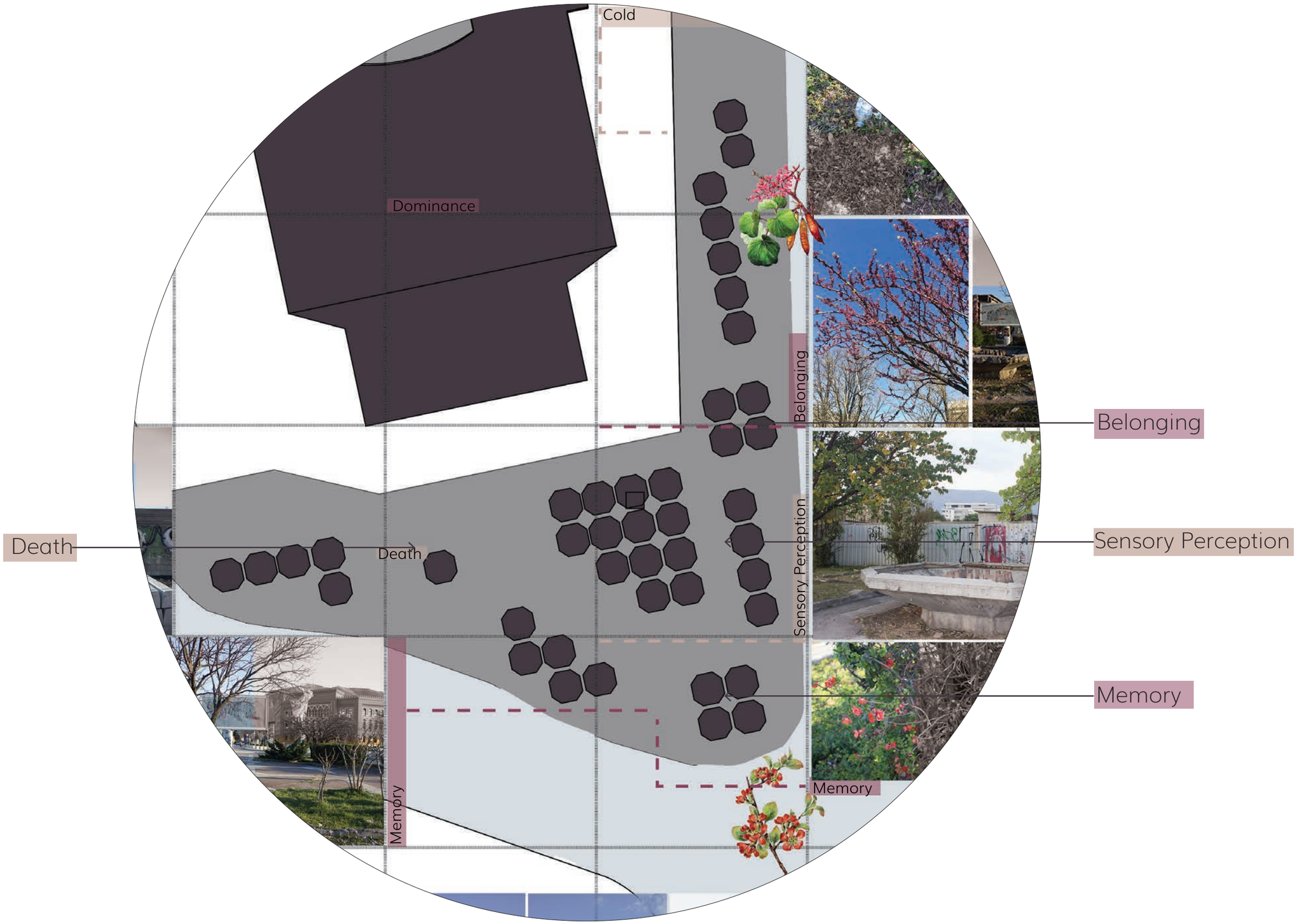
Belonging

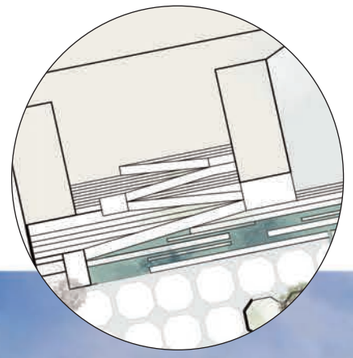
Death

Sensory Perception

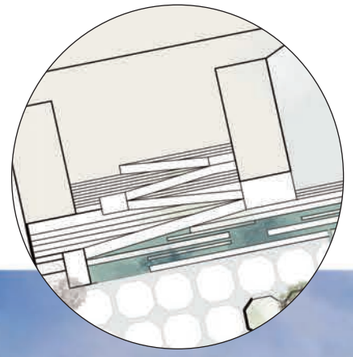
Memory

Memory


Cold
Dominance
Belonging
Belonging
Death
Death
Sensory Perception
Sensory Perception
Memory
Memory
Memory



1. Continuation and adaptation of incomplete staircase and rain-water garden



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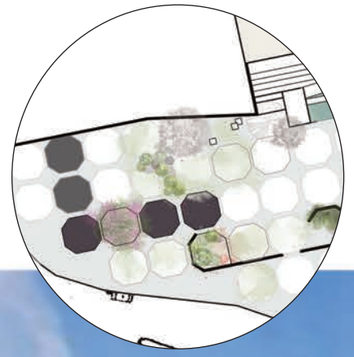
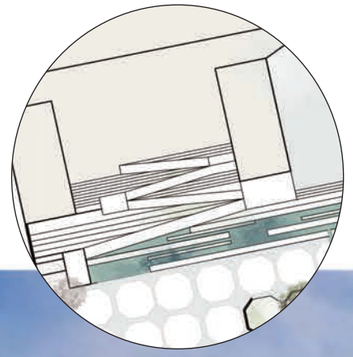


2. New planting scheme to differentiate the old and new. Also,adding smaller elements.



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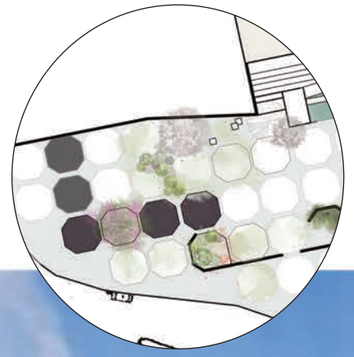

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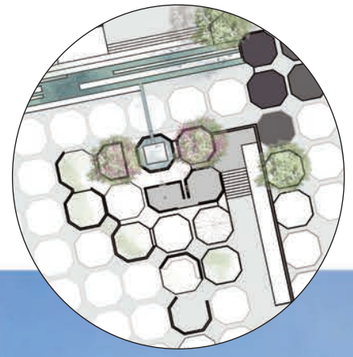


3. Manipulating levels and sensory marker

Legend

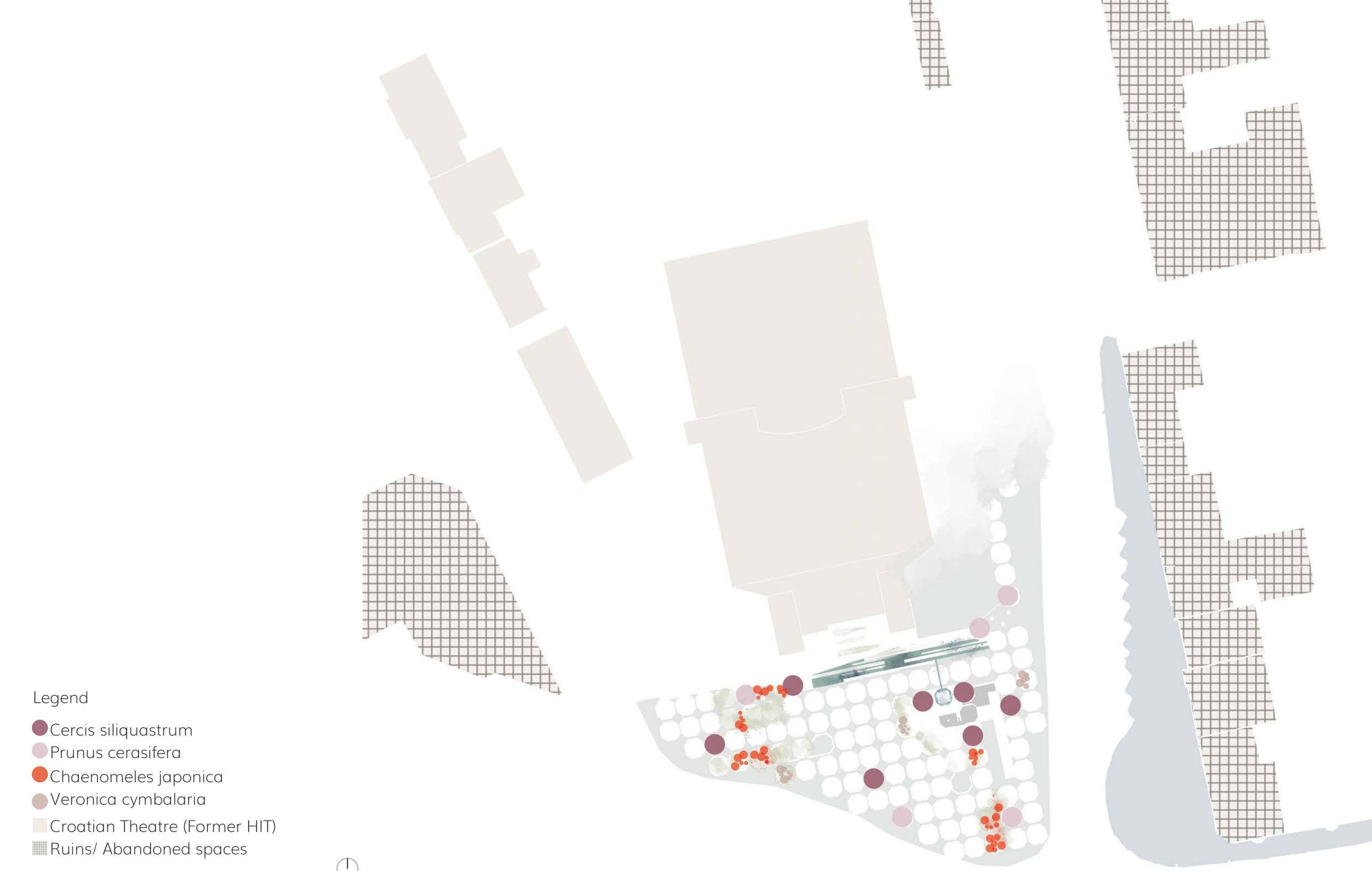
Croatian Theatre (Former HIT)

Ruins/ Abandoned spaces

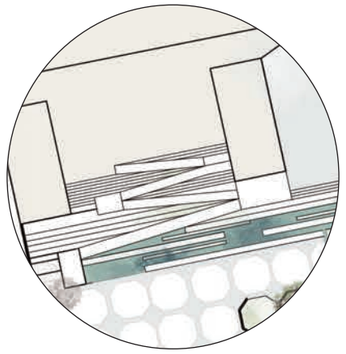
0 3 10 30 60 M

N

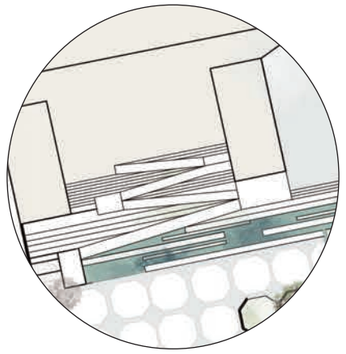
Layout of test site 02 - Square outside HIT



Planting Scheme



1. Continuation and adaptation of incomplete staircase and rain-water garden



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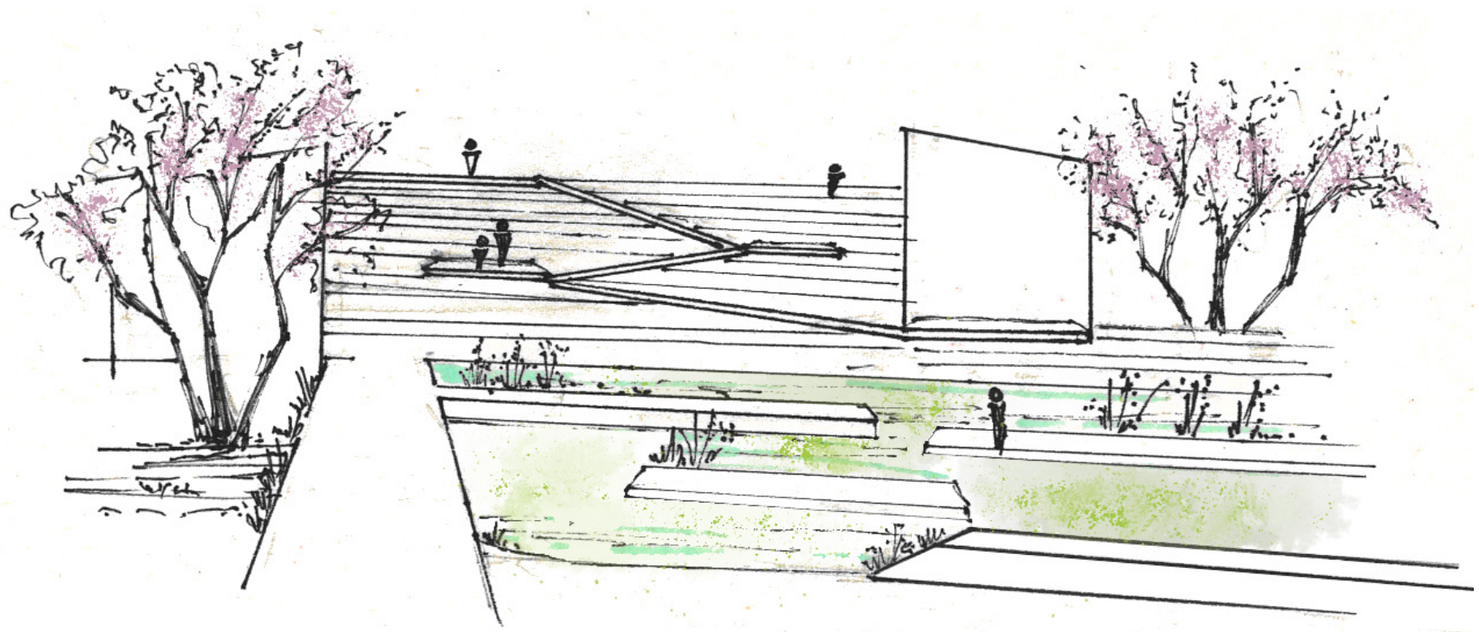
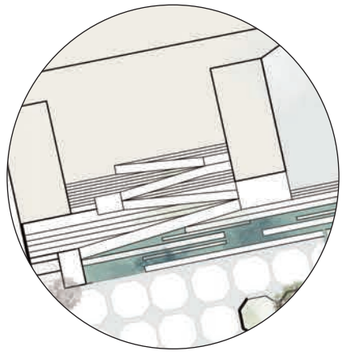


The staircase is adapted to an amphitheater and during the dry months it can serve as an activity space for open air shows or even just sitting under the trees.



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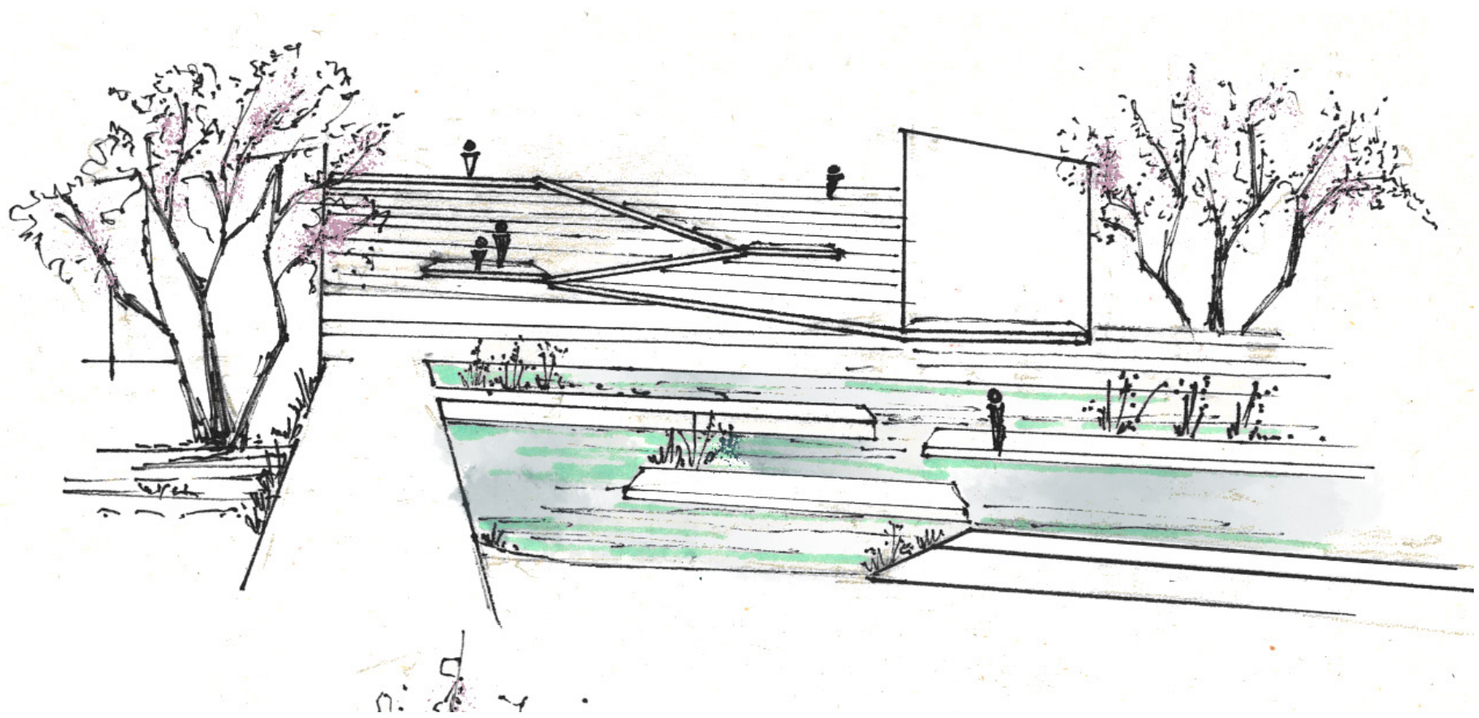
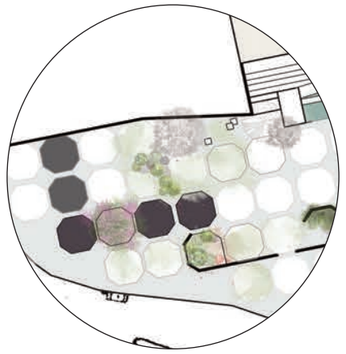
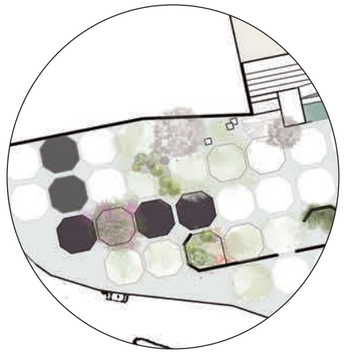


During the rainy season, this works as a rainwater pool with a depth of 600 mm and replicates the feeling of watching the river from the high banks.



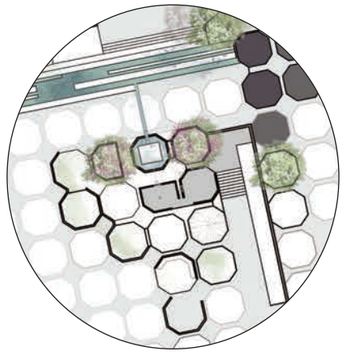
2. New planting scheme to differentiate the old and new. Also,adding smaller elements.



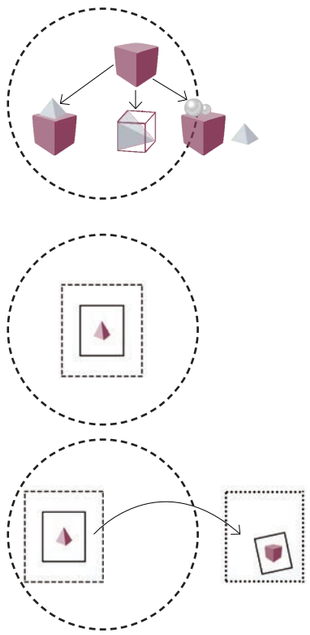
2. New planting scheme to differentiate the old and new. Also,adding smaller elements.

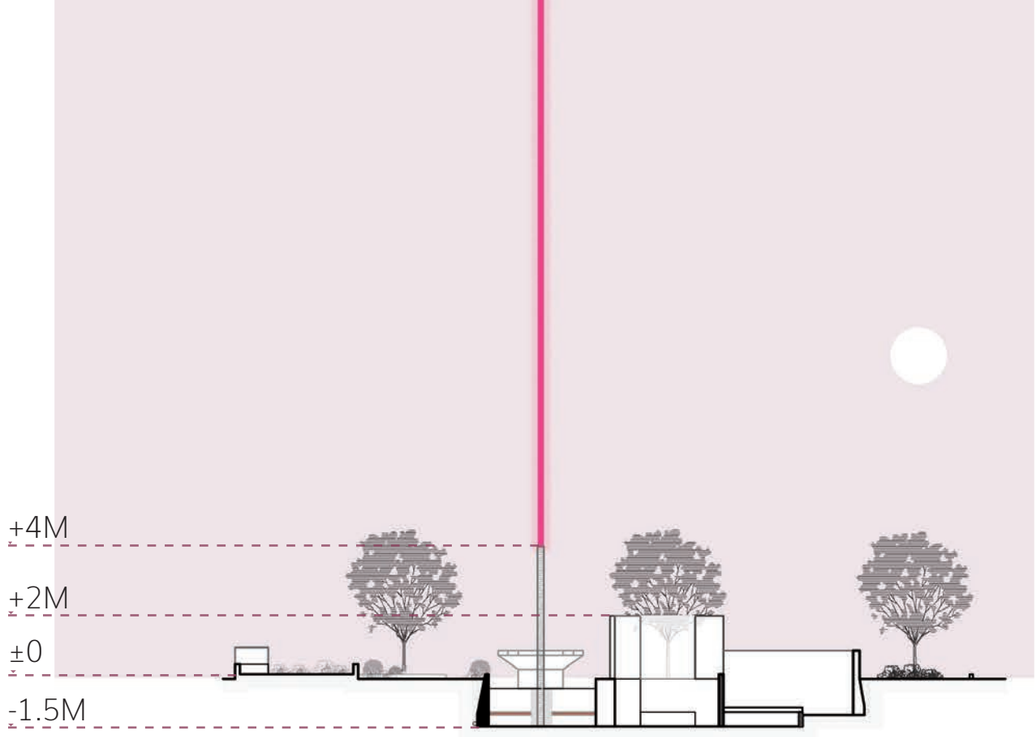
Small elements like concrete blocks are added which serve as multifunction spaces. *Chaenomeles japonica* is introduced in this part of the site and it can later on develop into a wild spring garden.

Neretva and Object

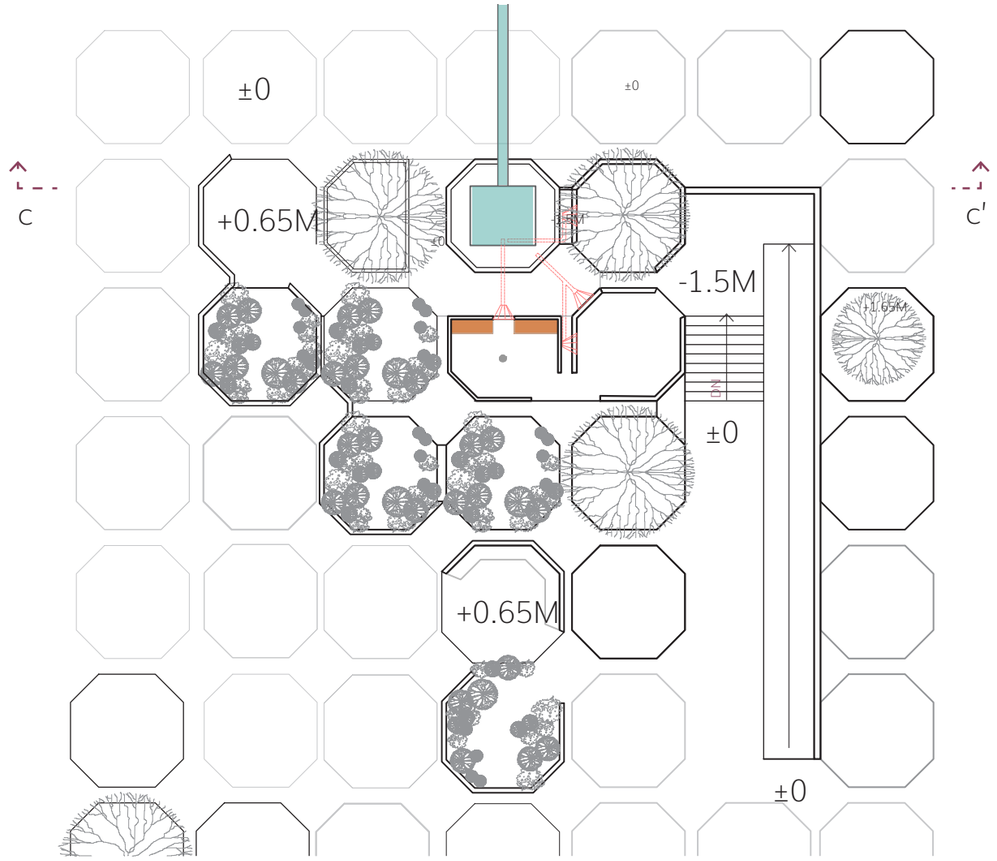


3. Manipulating levels and sensory marker

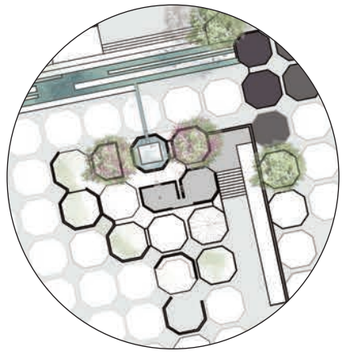




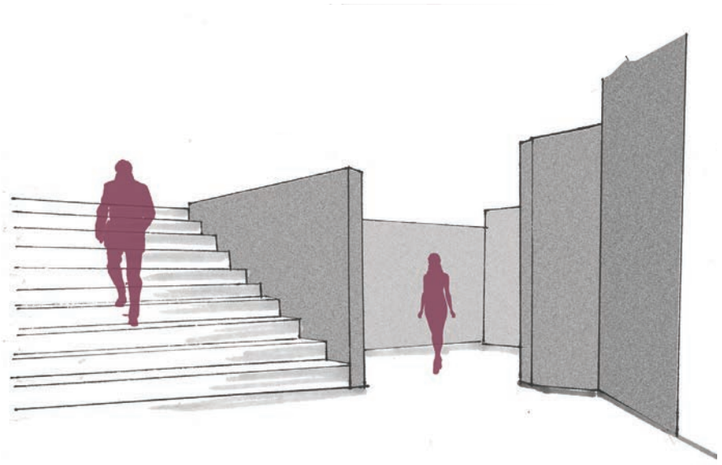
Section CC′ - acoustic spaces and the garden with different levels

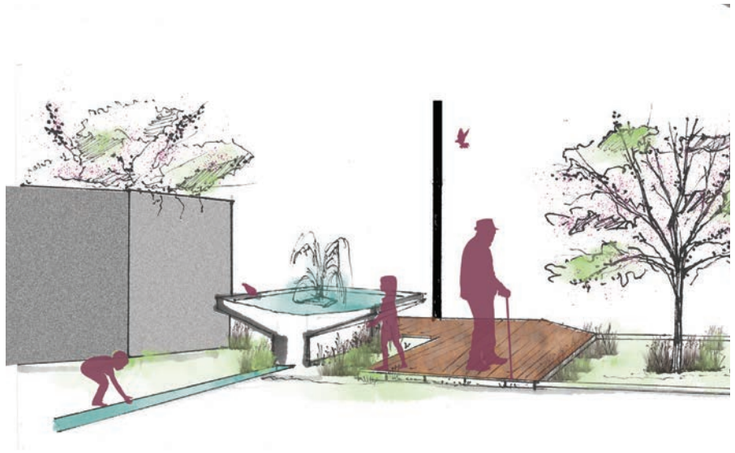


Layout of the sensory garden with the pre-war fountain and flooring



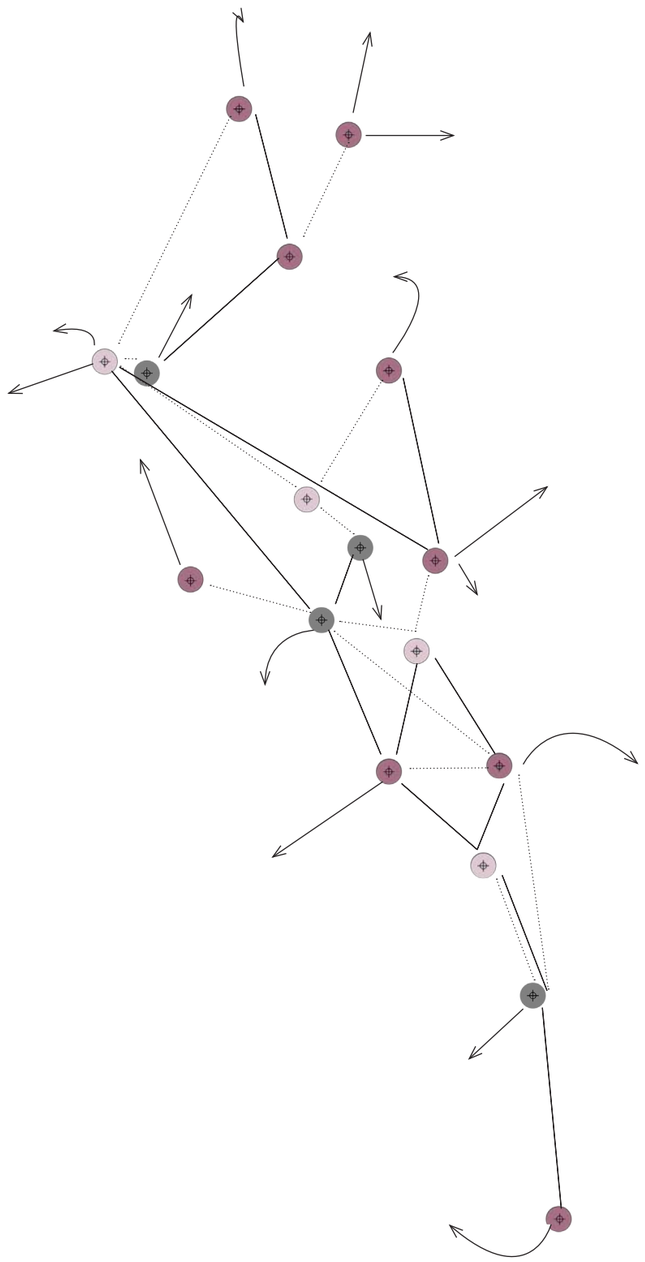
3. Manipulating levels and senso-
ry marker

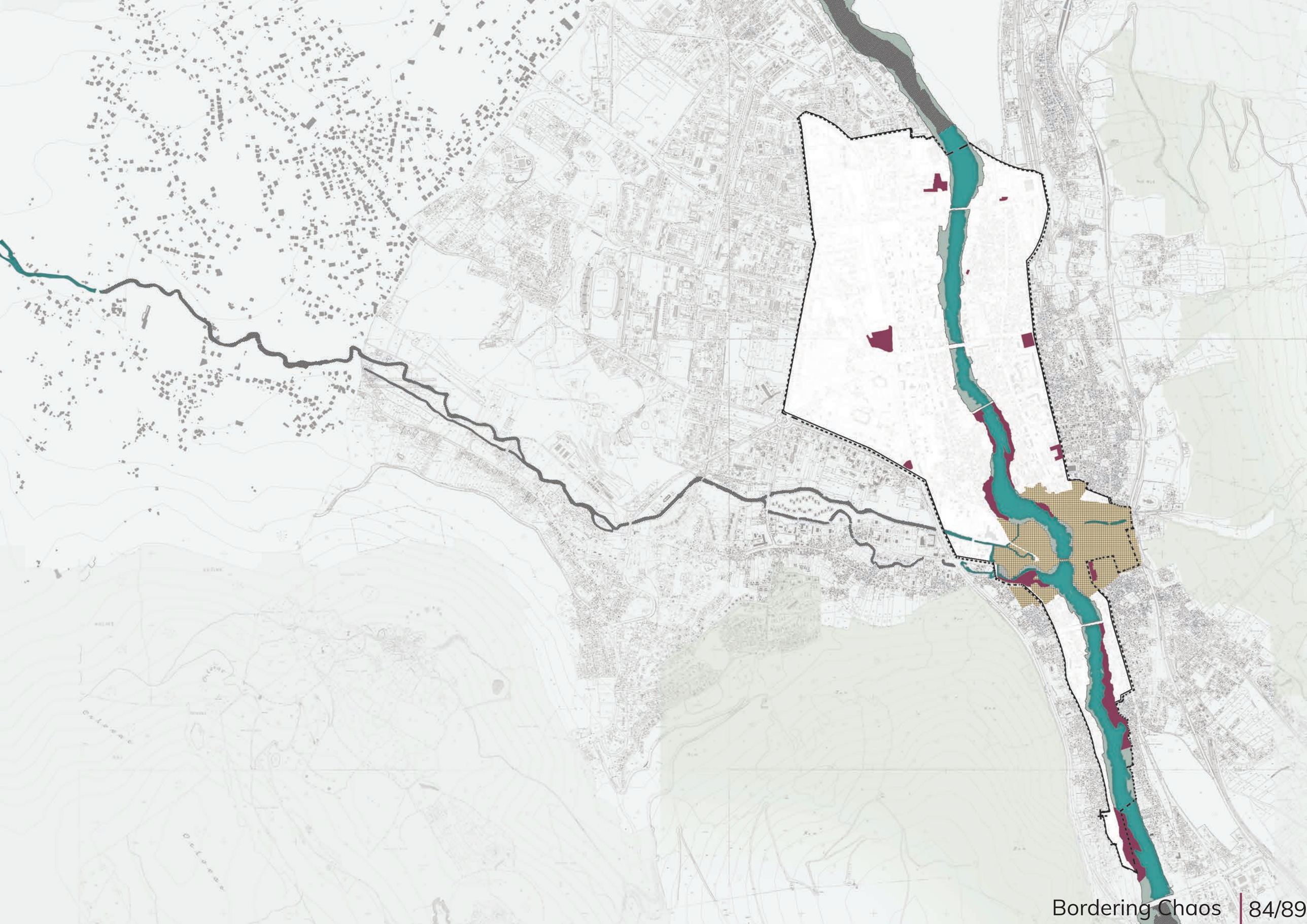




Neretva and Mostar

Rhizomatic Network



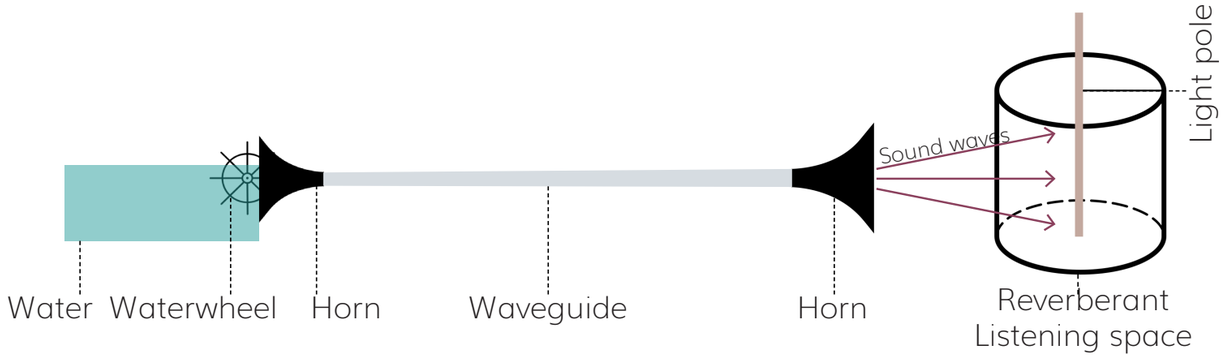


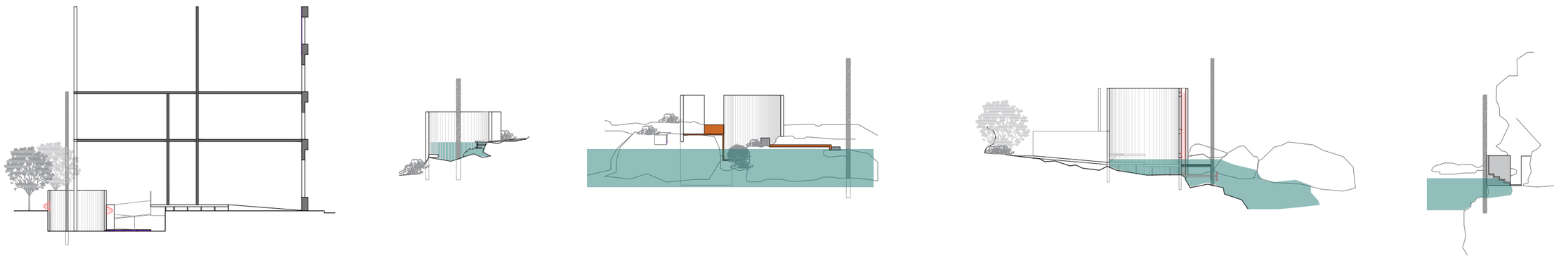
Legend
- Neretva & Radobolja
- Riverbank
- Old Town
- Religious buildings
- Location of sensorial markers

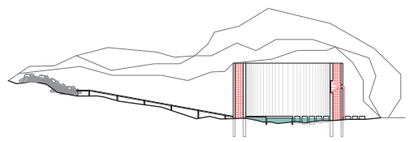
N

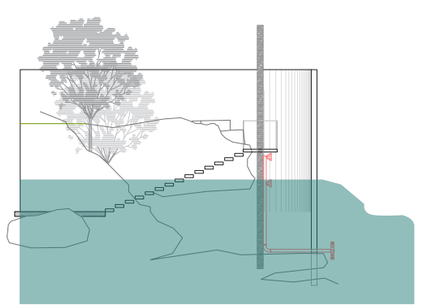
0 50 100 350 M

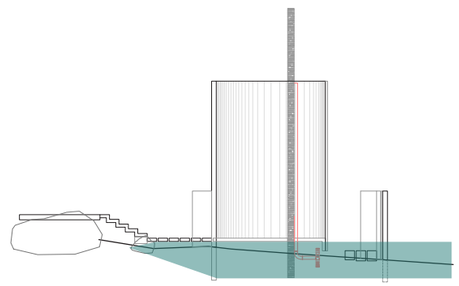
Sensory markers in-relation with religious buildings

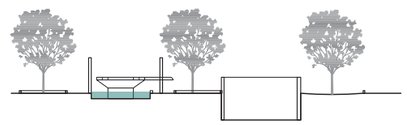

Water
Waterwheel
Horn
Waveguide
Horn
Sound waves
Light pole
Reverberant
Listening space

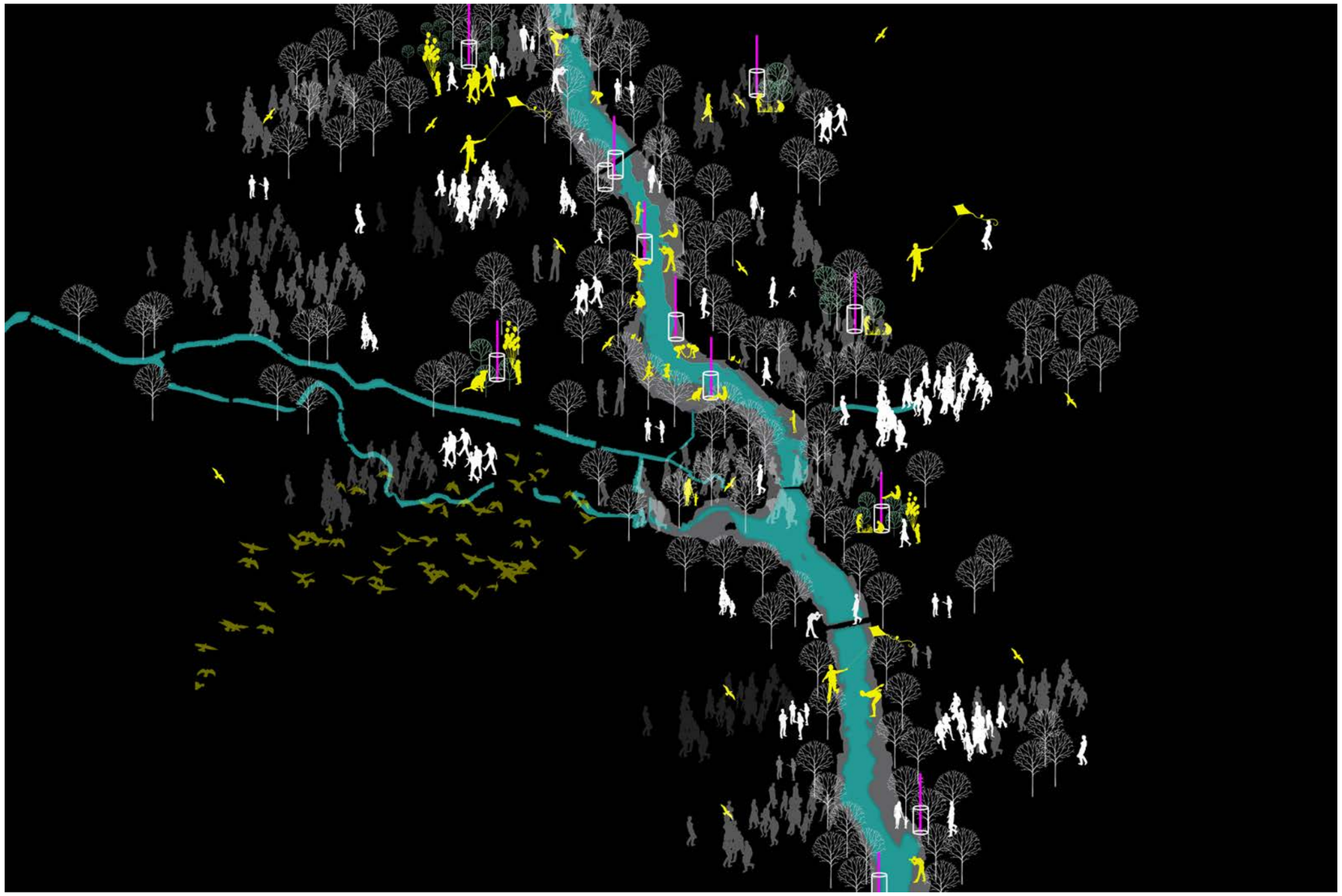








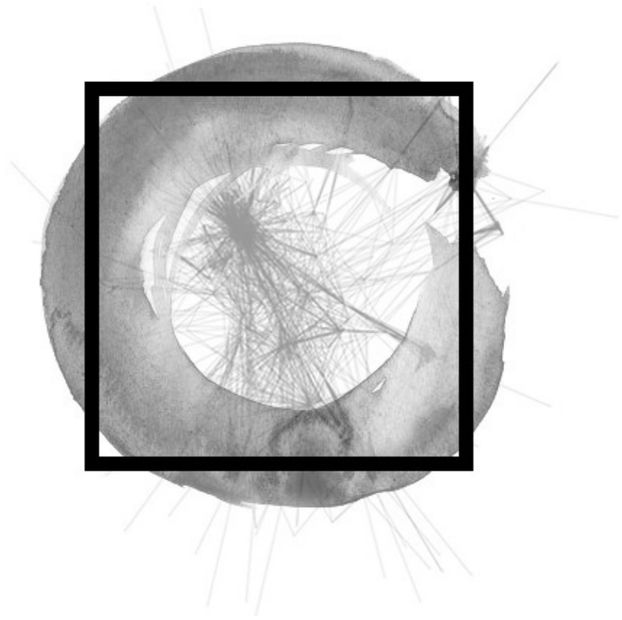




Video for time planning and involvement of inhabitants

Legend

- Neretva
- Riverbank
- City footprint
- Light poles
- Major public concentration
- Interested stakeholders
- Pathways and connections
- Acoustic space

N

Probable scenario after 10-15 years