



BEYOND TERRITORY

Transforming the frontlines, defensive structures and
battlefields of the Russo-Ukrainian War
into a landscape of peace

P5 Presentation 25th June
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First mentor: Eric Luiten
Second mentor: Marc Schoonderbeek
Examiner: Y.J. Cuperus



A massive open wound

The Scarred Land

The frontlines defensive structure



Figure: Scarred land
Source: Google earth

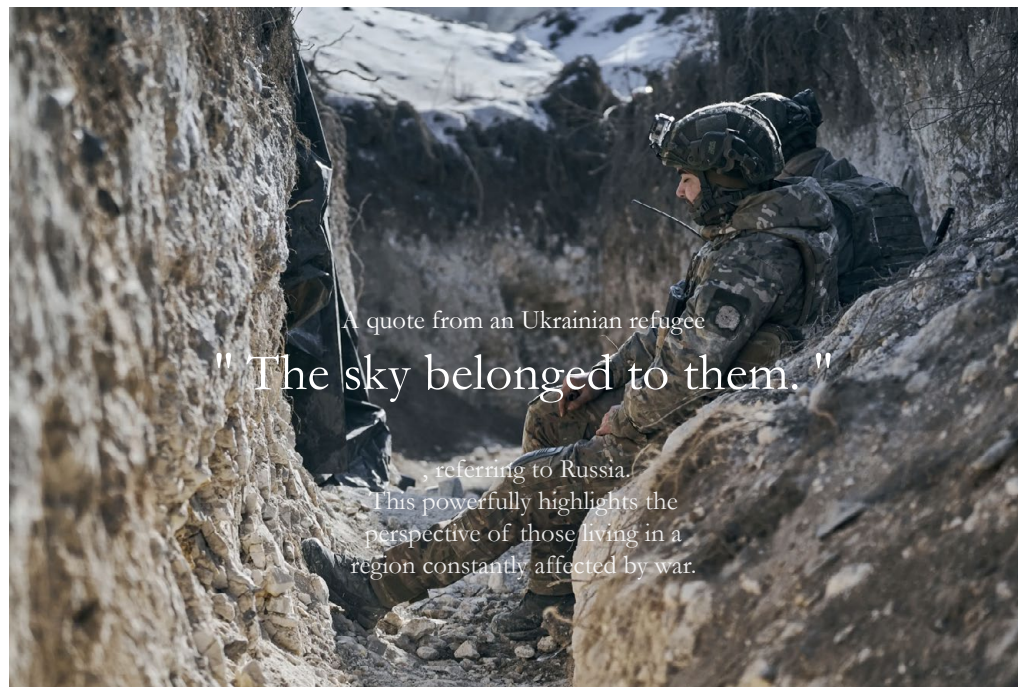


Figure: A trench in position near Bakhmut, Donetsk region
Source: en.lb.ua, 2024

A quote from an Ukrainian refugee
"The sky belonged to them."
, referring to Russia.
This powerfully highlights the
perspective of those living in a
region constantly affected by war.

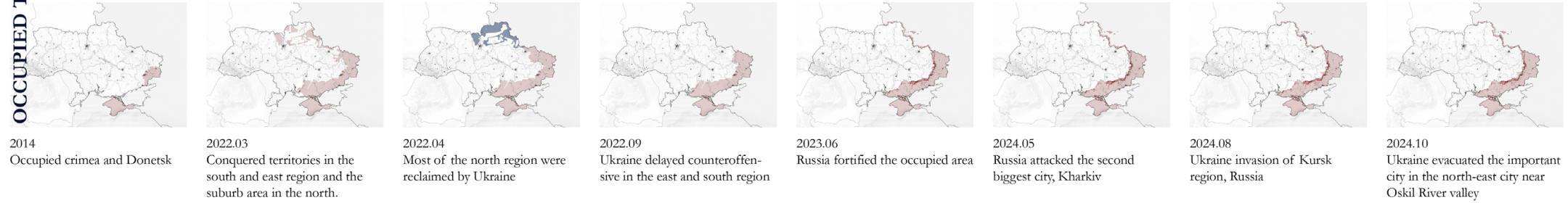
MOTIVATION

As a Taiwanese person situated on the fringes of political sensitivity and questions of identity and land, I find myself deeply concerned about the ongoing Russo-Ukrainian War.

However, the shared love for the natural and cultural environments of Ukraine among diverse groups emerges as a common language. A suitable landscape environment can stabilize hearts and possesses the power to heal, providing individuals with the courage to face an uncertain future.

Thus, this topic represents not only a landscape experiment but also a journey of personal spiritual growth for me. It invites me to reimagine post-war territories, borderlands, and landscapes, confront the realities of traumatic landscapes, and engage in the processes of restoration and healing. Through this exploration, I reaffirm my connection to the land of my birth and believe that landscape architects can contribute to global peace.

OCCUPIED TERRITORY



2014~2021

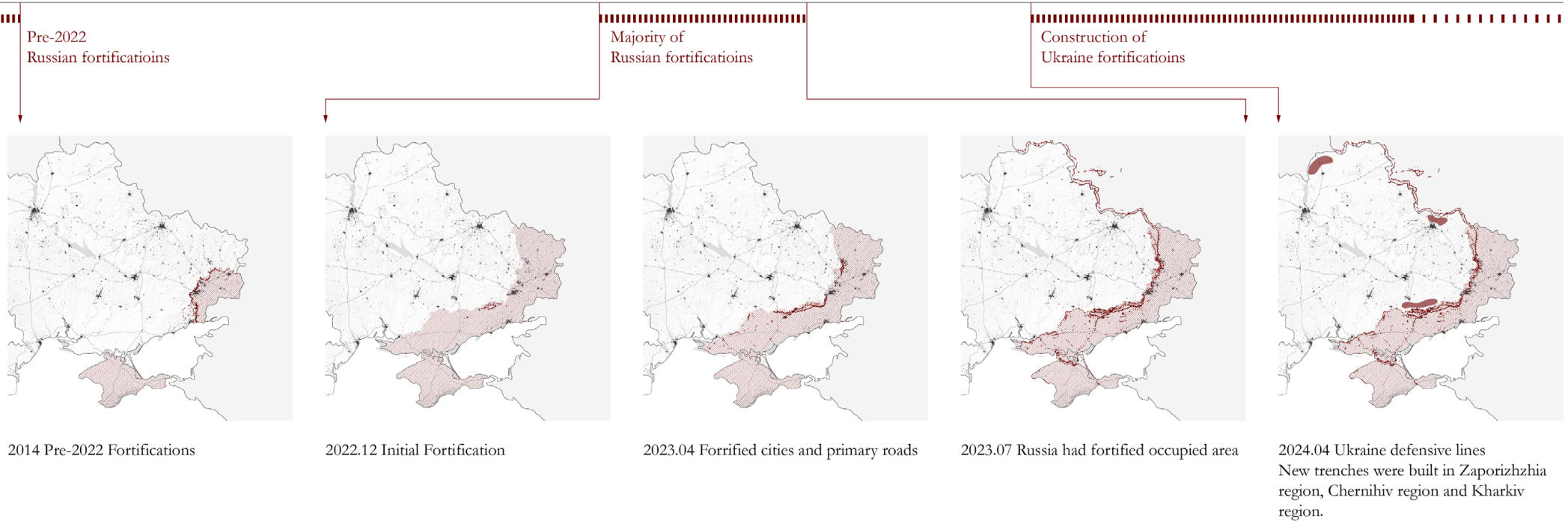
2022

2023

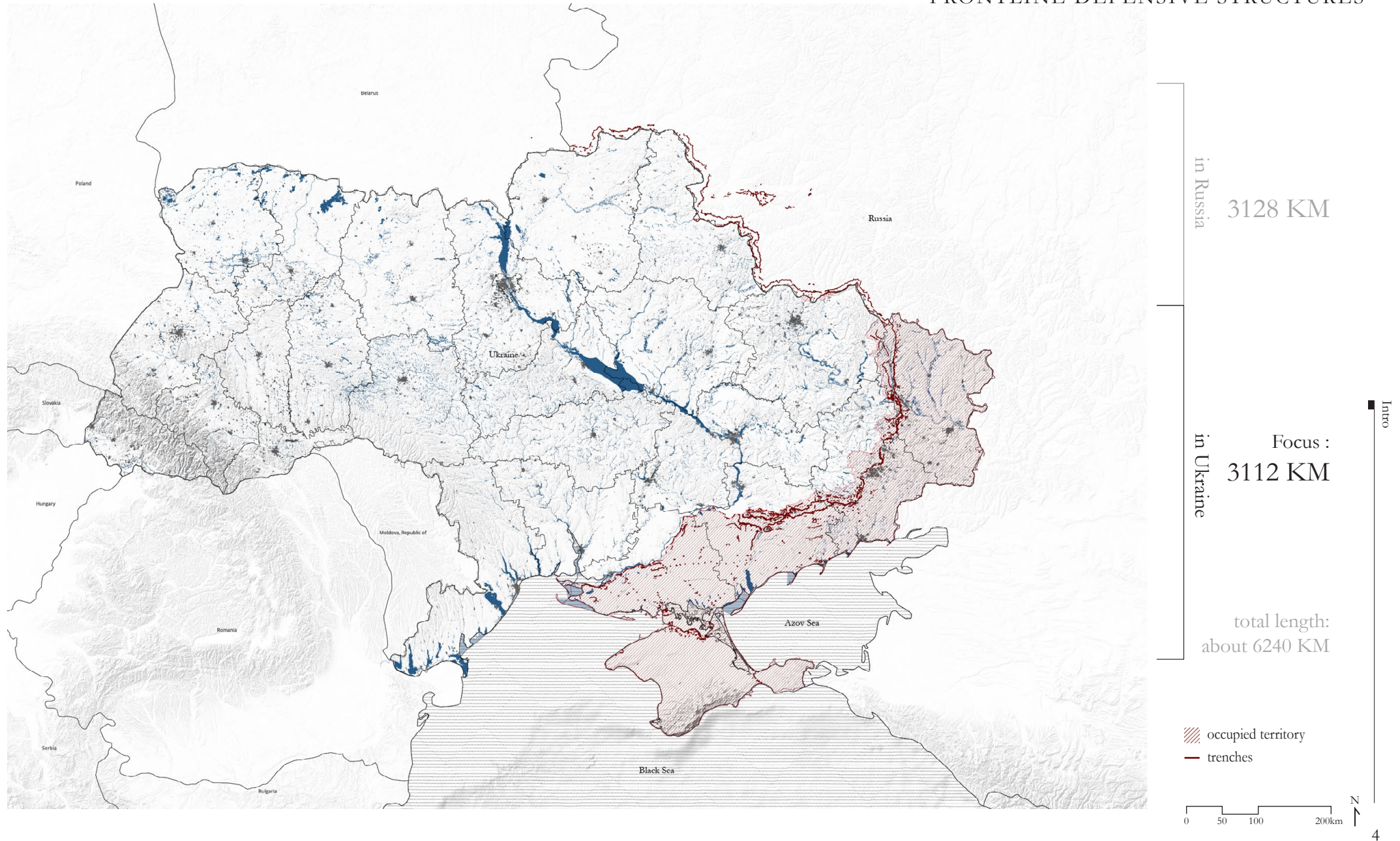
2024

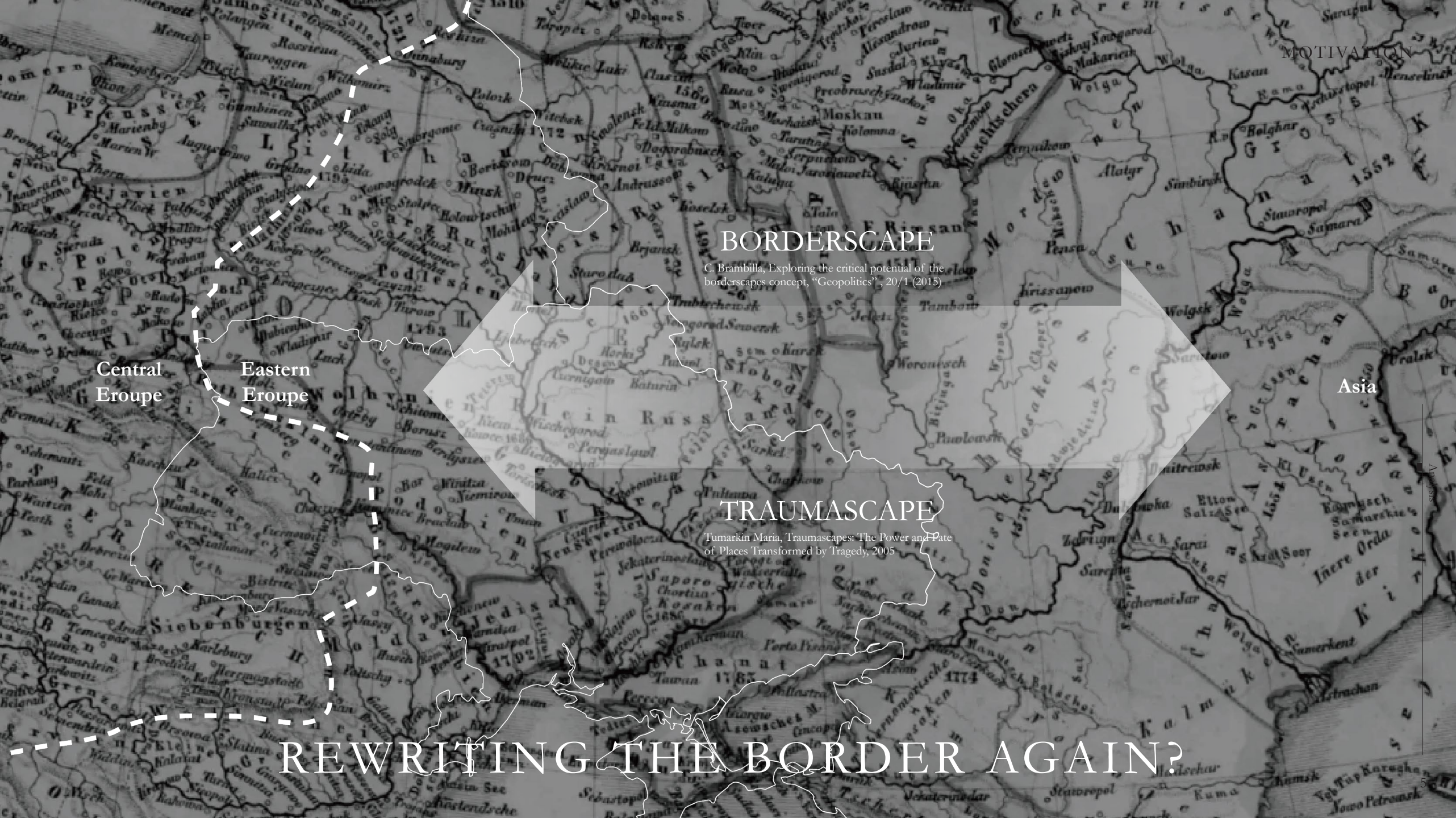
FUTURE

FORTIFICATION CONSTRUCTIONS



FRONTLINE DEFENSIVE STRUCTURES





MOTIVATION

BORDERSCAPE

C. Brambilla, Exploring the critical potential of the borderscapes concept, "Geopolitics", 20/1 (2015)

Central
Eroupe

Eastern
Eroupe

Asia

TRAUMASCAPE

Tumarkin Maria, Traumascape: The Power and Pate of Places Transformed by Tragedy, 2005

REWRITING THE BORDER AGAIN?

1600

Poland
×
Crimean



1800

Poland
×
Austrian
×
Russia



1920

Poland
×
UkSSR
×
Romania

1945

Poland
×
USSR

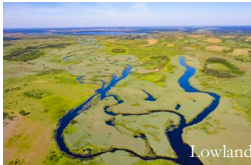
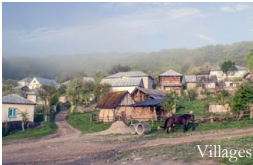
1994

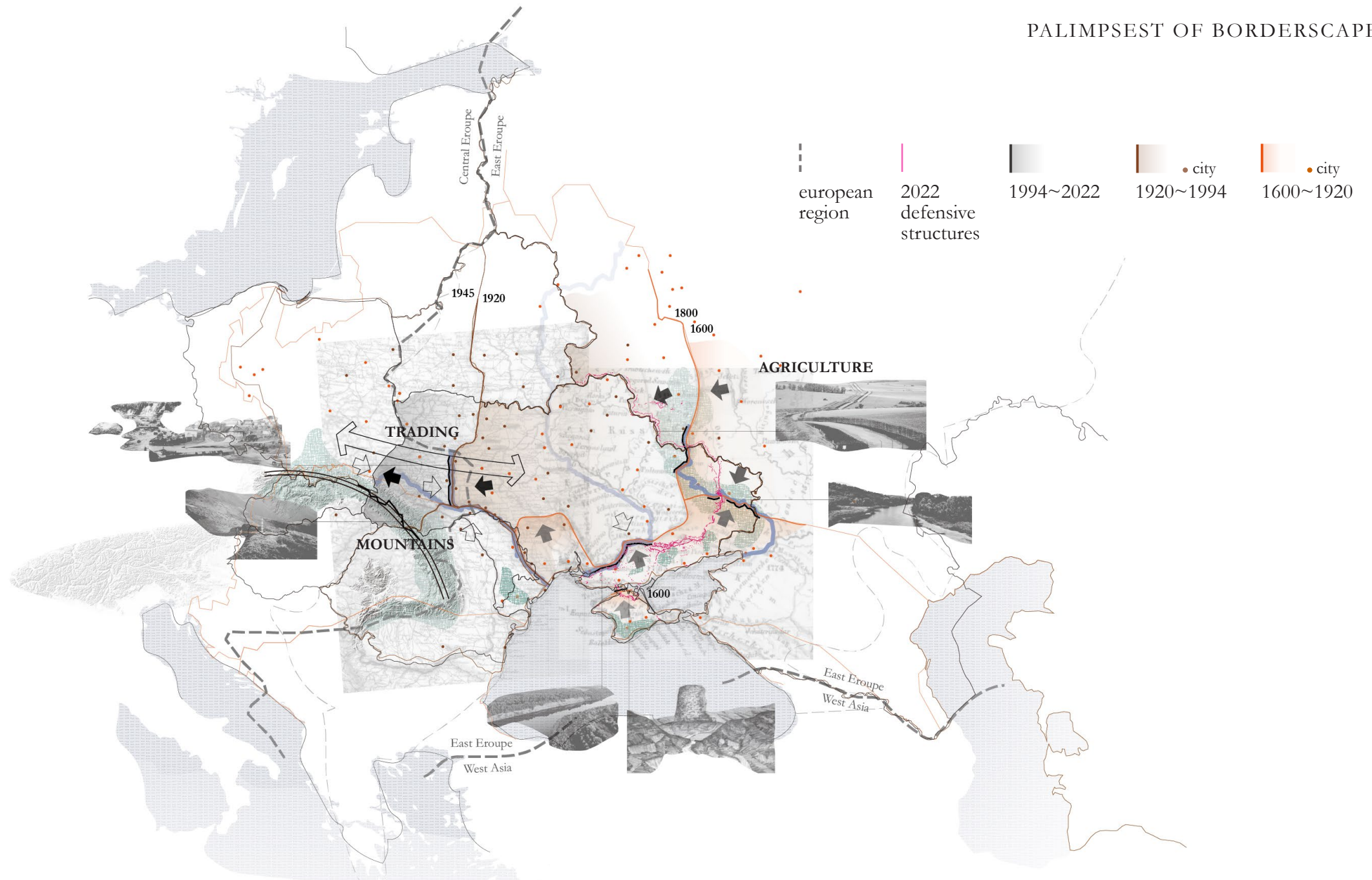
Ukraine (independence)

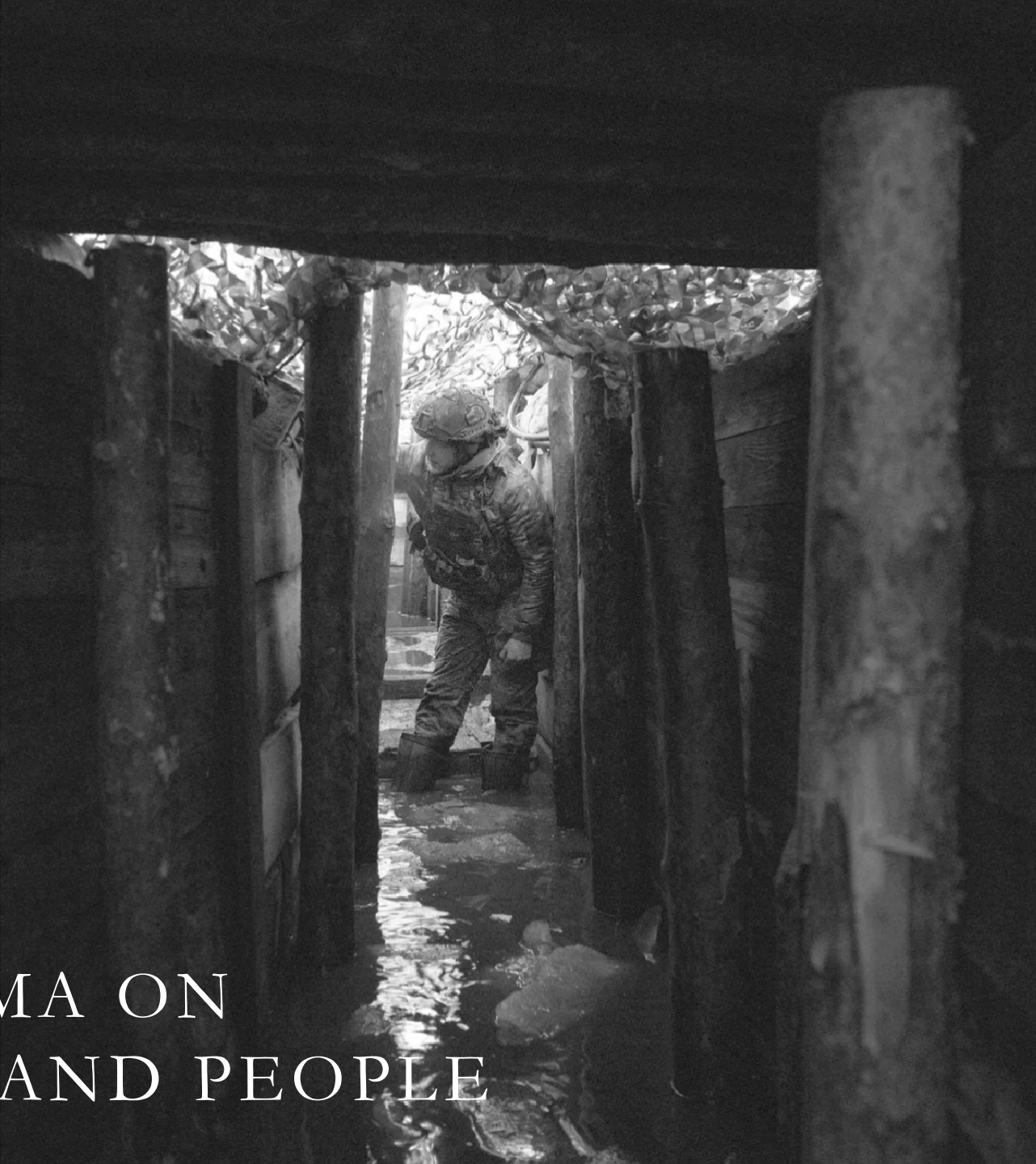
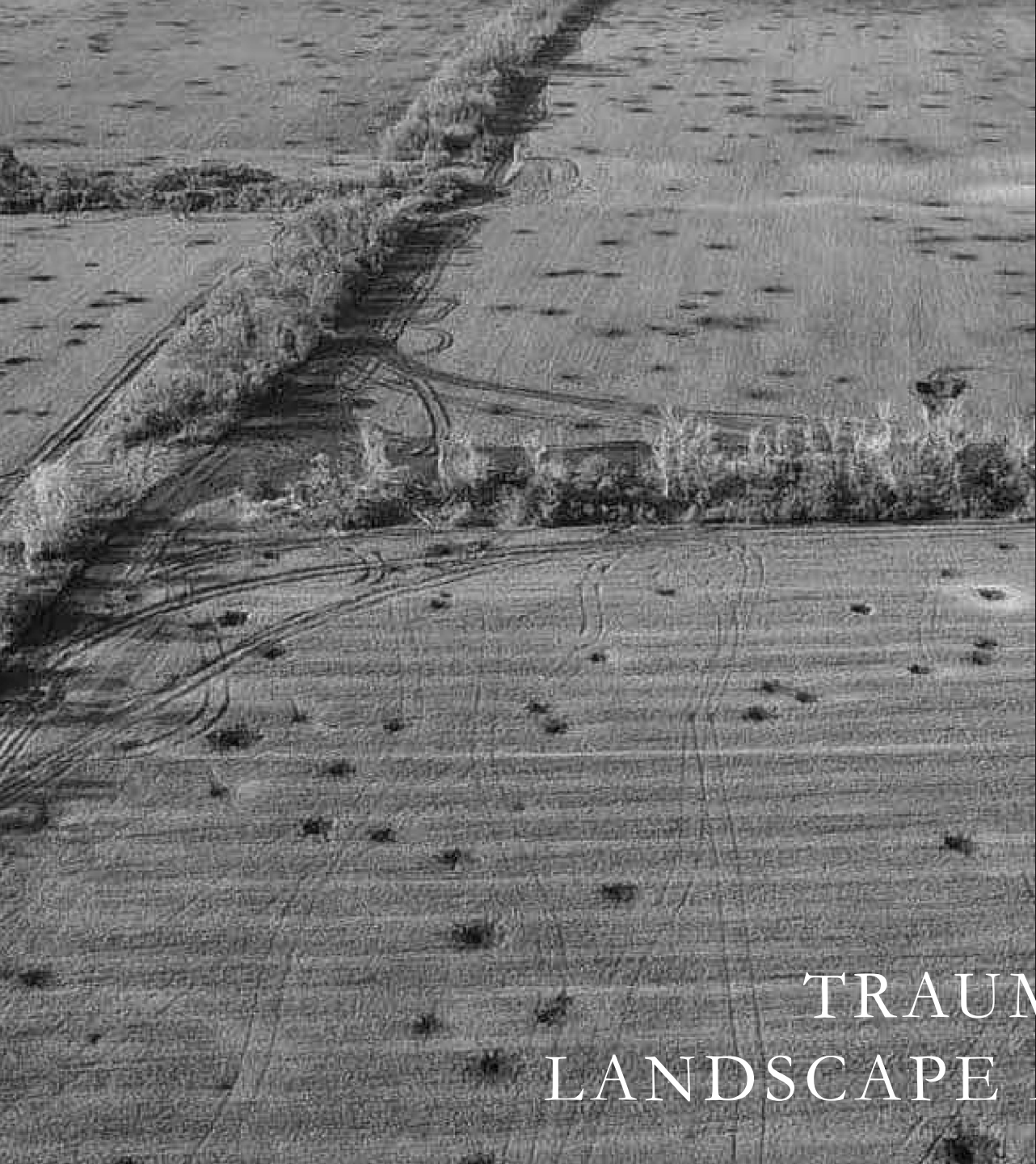


2022

Russo-Ukrainian War



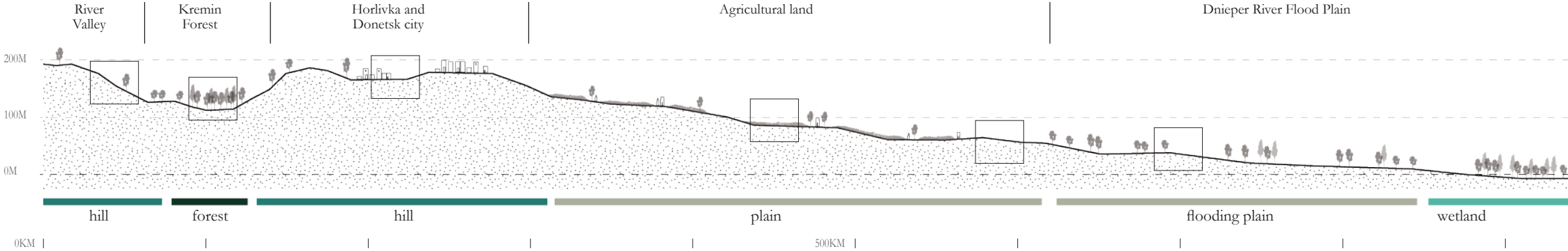




TRAUMA ON
LANDSCAPE AND PEOPLE



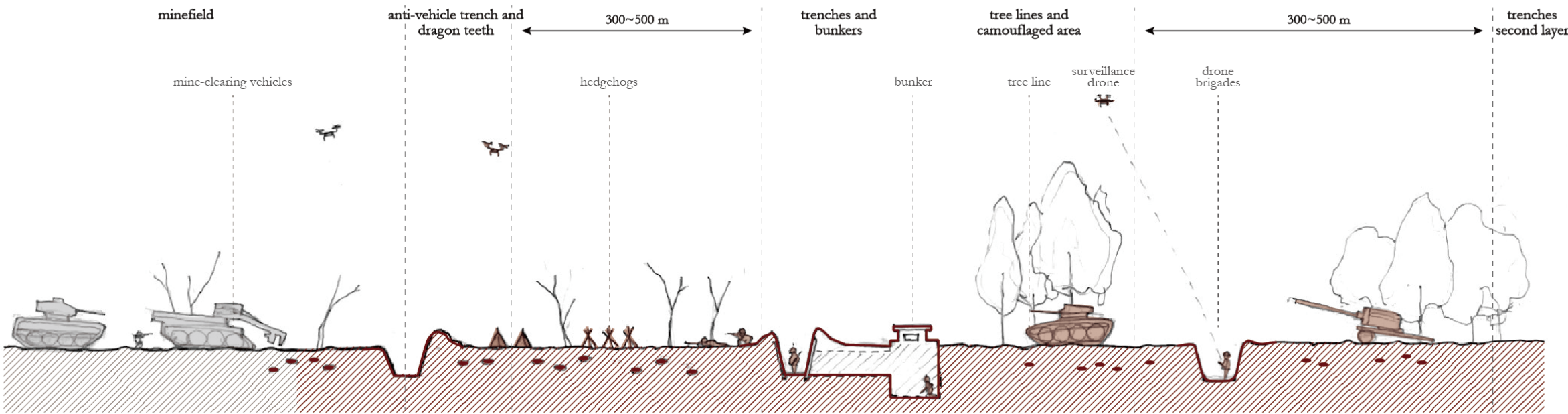
DEFENSIVE STRUCTURE SYSTEM
Arrangements of deffensive structures



DEFENSIVE STRUCTURE SYSTEM
Frontline deffensive section

UKRAINIAN
CONTROLLED TERRITORY

RUSSIAN
CONTROLLED TERRITORY



Anti-tank ditches

Dragon's teeth and
Hedgehogs

Minefield

Drones and
Anti-drone Nets

Trenches system

Dogouts and Bunkers



" Very, Very bored "

" 90% of the war is standing around waiting "

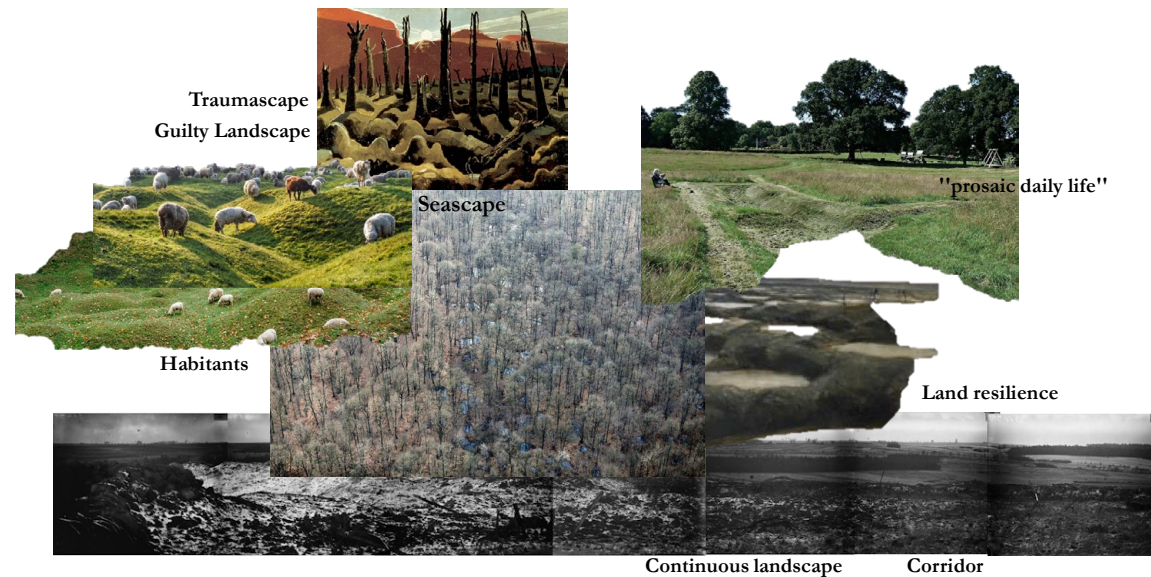
Roma, Ukrainian soldier



Collective experience - 'Time stands still here.



" How can the frontline areas, including defensive structures and battlefields of the Russo-Ukraine War, transform from scarred land into territories that reflect the palimpsest of the borderscape and convey a message of peace? "



A NEUTRAL LANDSCAPE

serve as a **buffer**, a **reminder**
 offer a sense of **healing and peace**
 carry the **historical significance** of the **borderscape**

NO MAN'S LAND/ LIBERLAND?

Fenced and no man's land
to
A self-proclaimed libertarian



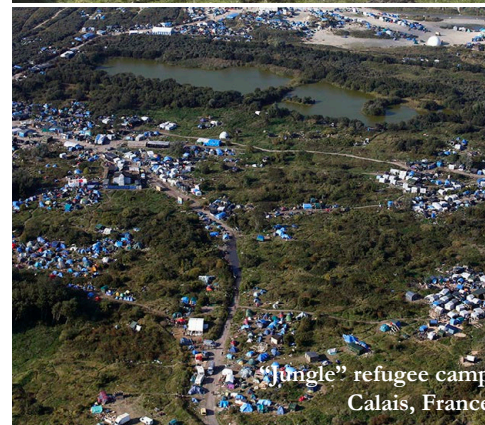
Gornja Siga and other pockets
Croatia and Serbia border

CHARACTERISTICS INTEGRATION

maintain nature for agricultural practice on both sides, for
providing buffer and
for controlling accessibility



Crombach river
Parkstad, Netherland and Aachen, Germany



"Jungle" refugee camp
Calais, France

ECOLOGICAL CORRIDOR

The border of East Germany and West Germany
fortified with fences, guard towers, land mines
Rewilding



the German Green Belt
between the states of Bavaria and Thuringia,
Germany

CULTURAL ROUTE OF THE COUNCIL OF EUROPE

48 routes were certified
path, accomodation
spiritual retreat



The Council of Europe is the continent's leading human rights organization. It comprises 46 member states, including all members of the European Union. All Council of Europe member states have signed the European Convention on human rights, a treaty designed to protect human rights, democracy and the rule of law. The European Court of Human Rights oversees the implementation of the Convention in the member states.



The Camino de Santiago, Spain
(The way of St.James)





Historical borders of
different empires and countries



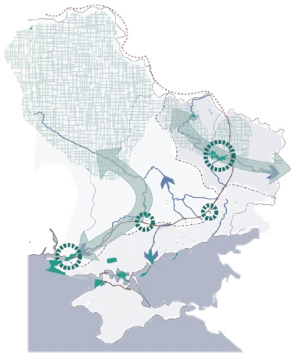
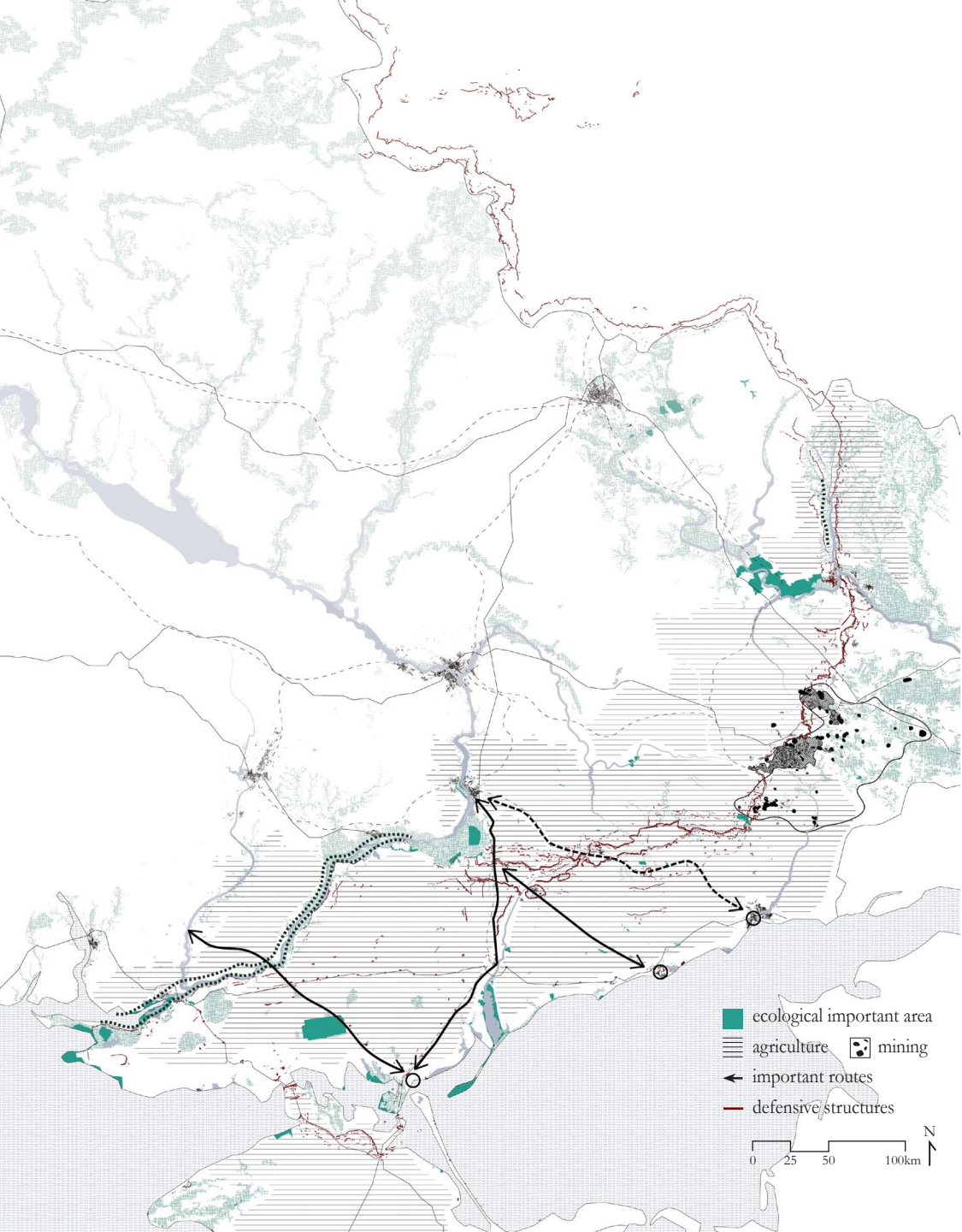
Landscape characteristics
of the borderscape



Military artifacts of
the Russo-Ukrainian War

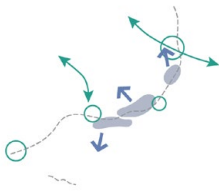
A NEUTRAL ZONE

An everybody's land with size, length, width, surface and potential

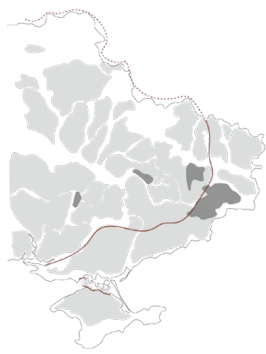


Ecology and Hydrology System

↓ pollution
destruction

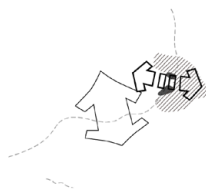


Reconnect and recover
natural system



Industrial Activity System

↓ contamination
suspension

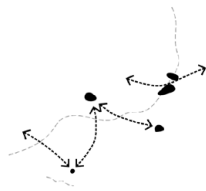


Restore and continue
agricultural land

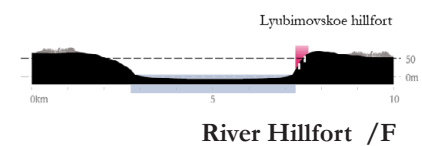
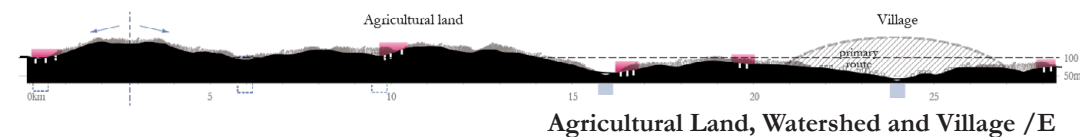
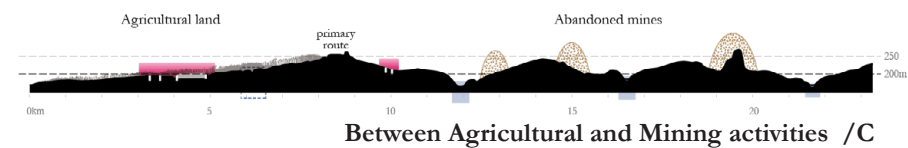
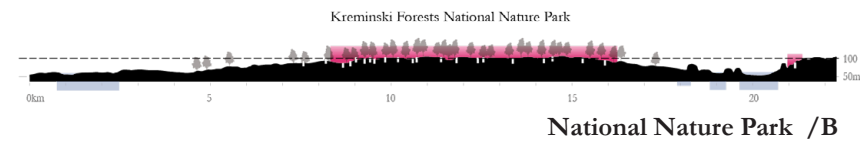
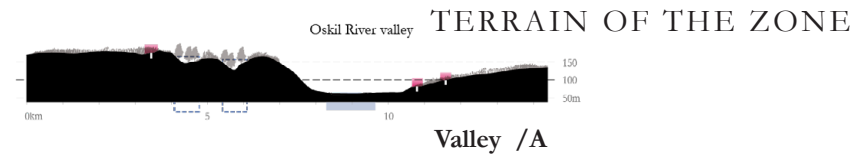
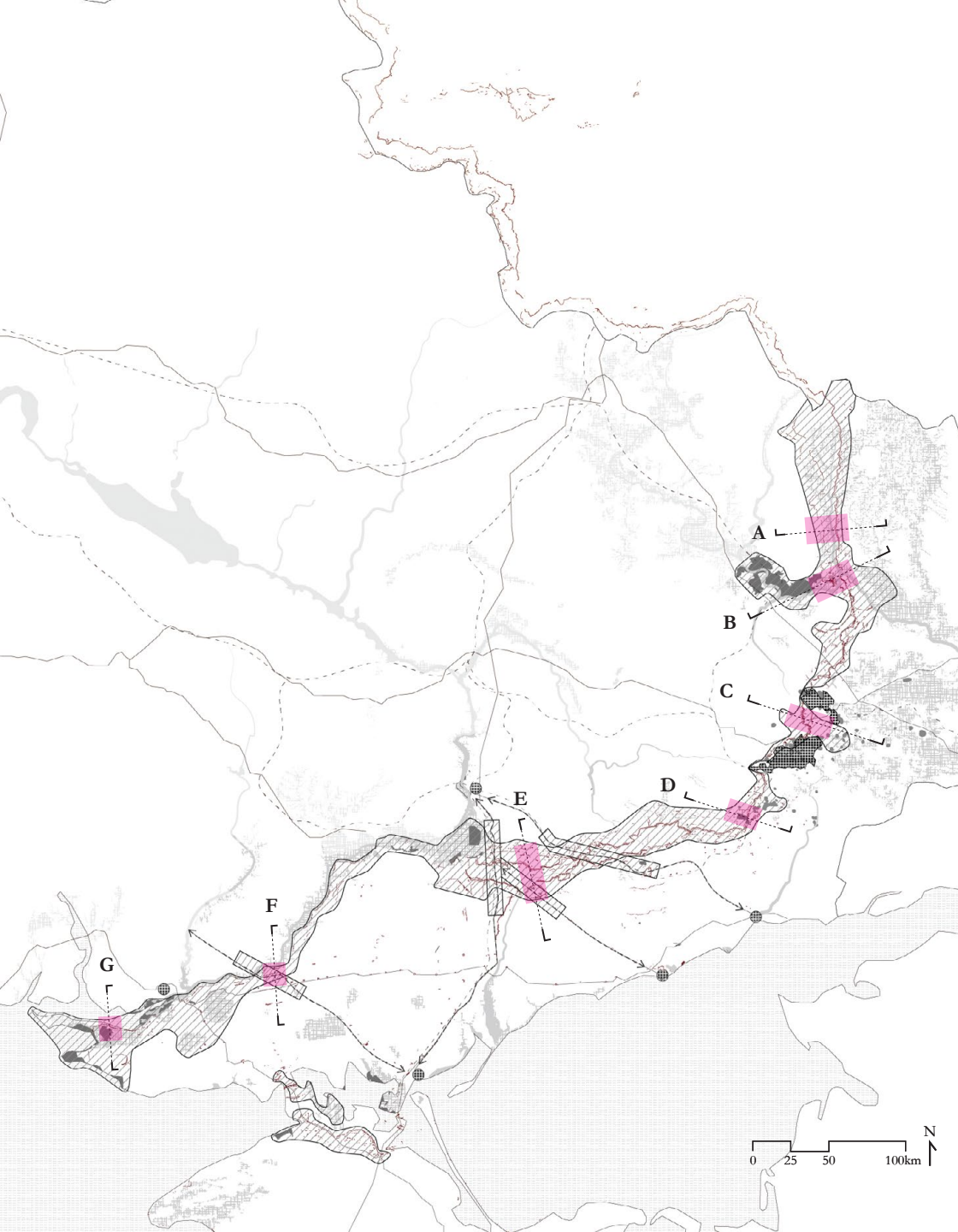


Urban context and
Infrastructure

↓ damaged
disconnect



Identify and reconnect
essential routes



scale (L:H=1:10)

Land demining



Sunflower healing



Cultural routing



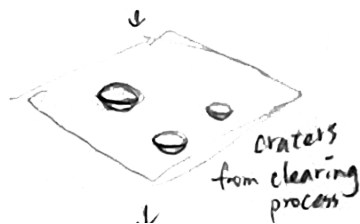
Deming



Craters

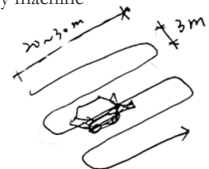


Phytoremediation

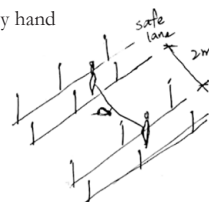


Demining methods

By machine

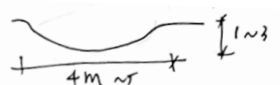


By hand

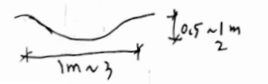


Sizes of craters

Anti-tank mines



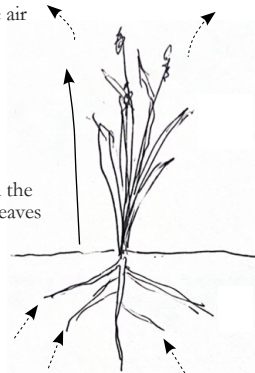
Anti-personnel mines



Vegetation

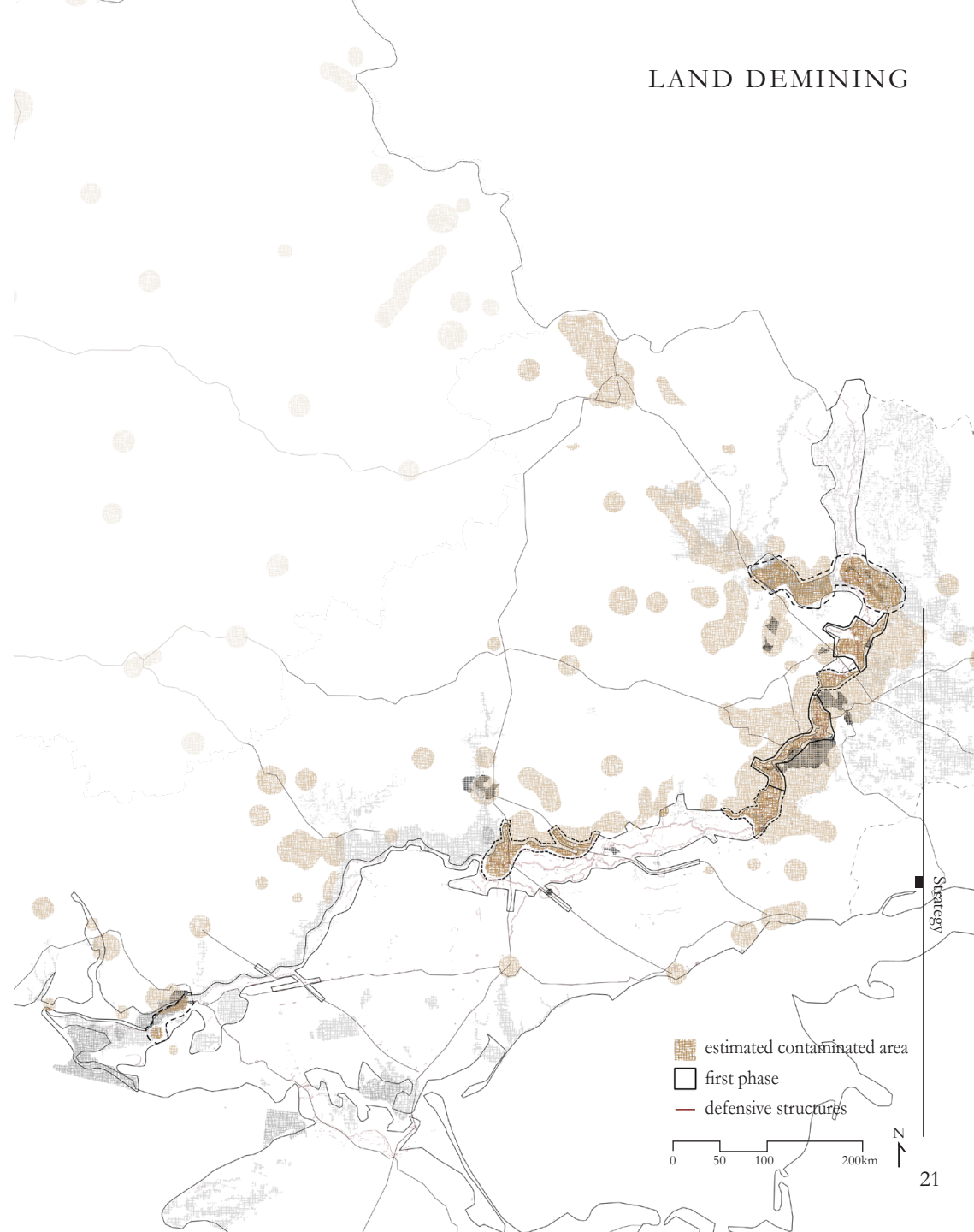
Release into the air

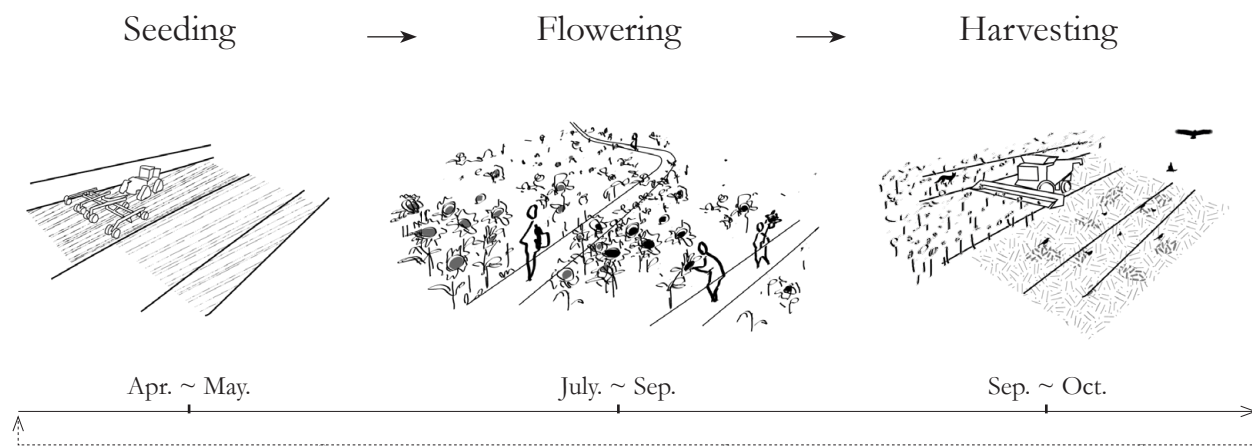
Store in the stems, leaves



2.5 months for the estimated contamination area of landmines (8781.2 km²)

Revealing war traces beneath the soil

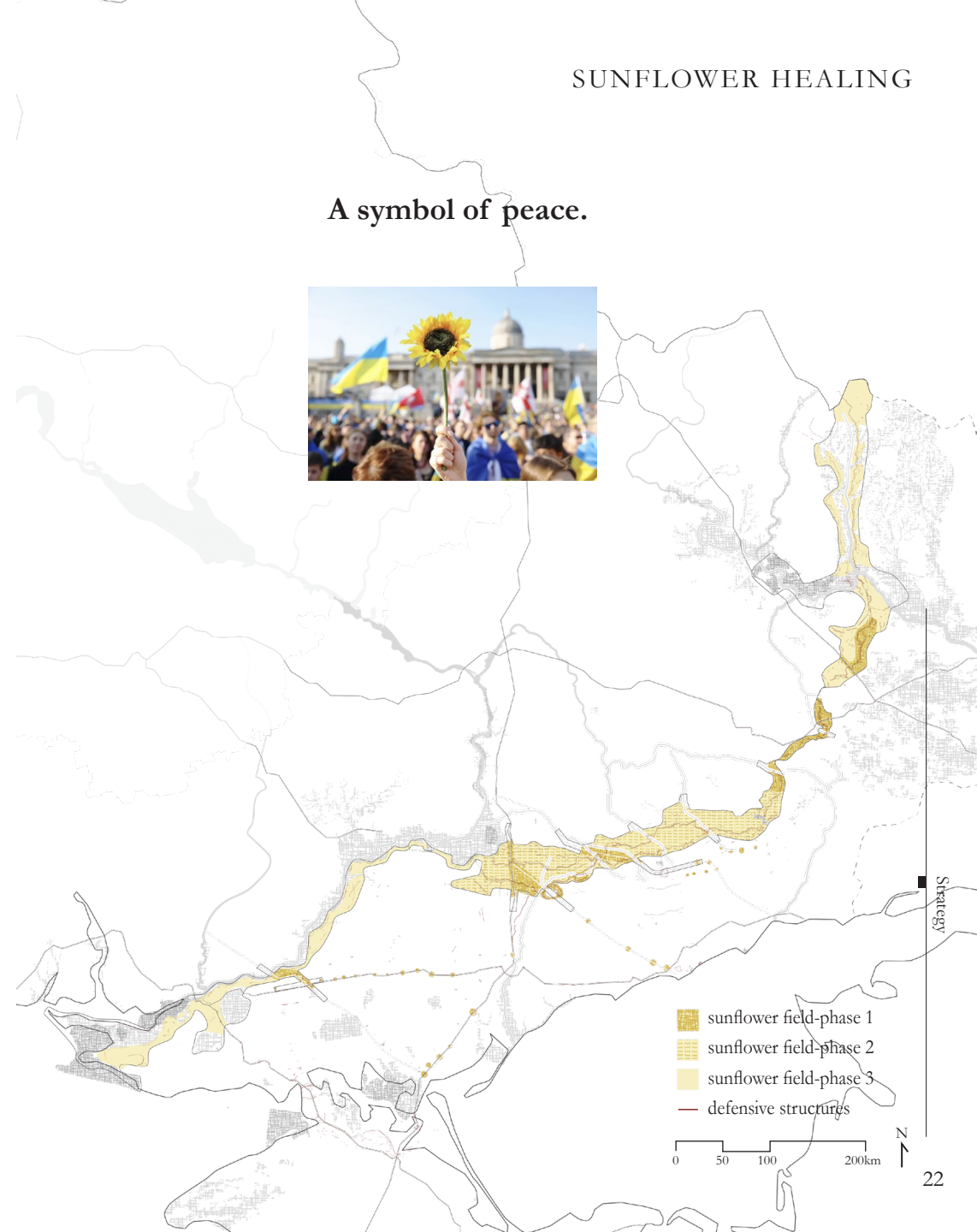




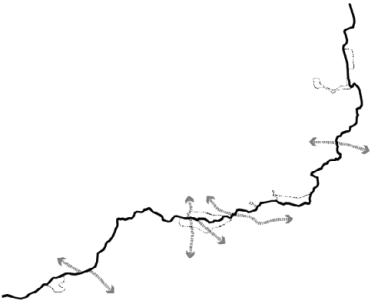
Symbolizing rebirth
Remove contaminants

SUNFLOWER HEALING

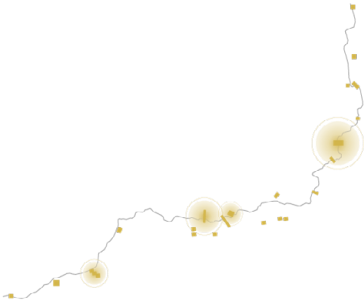
A symbol of peace.



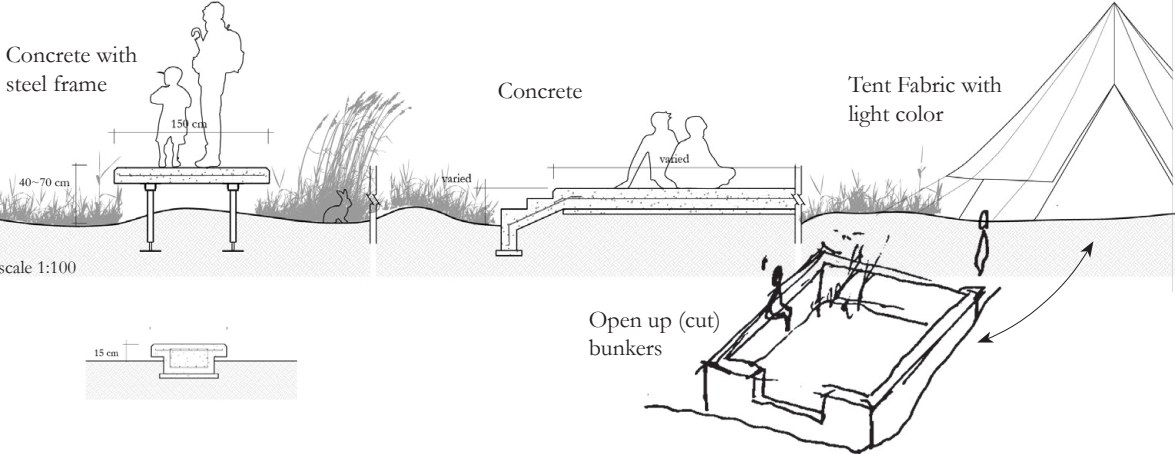
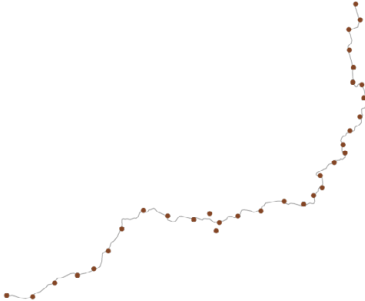
Paths



Nodes



Shelters



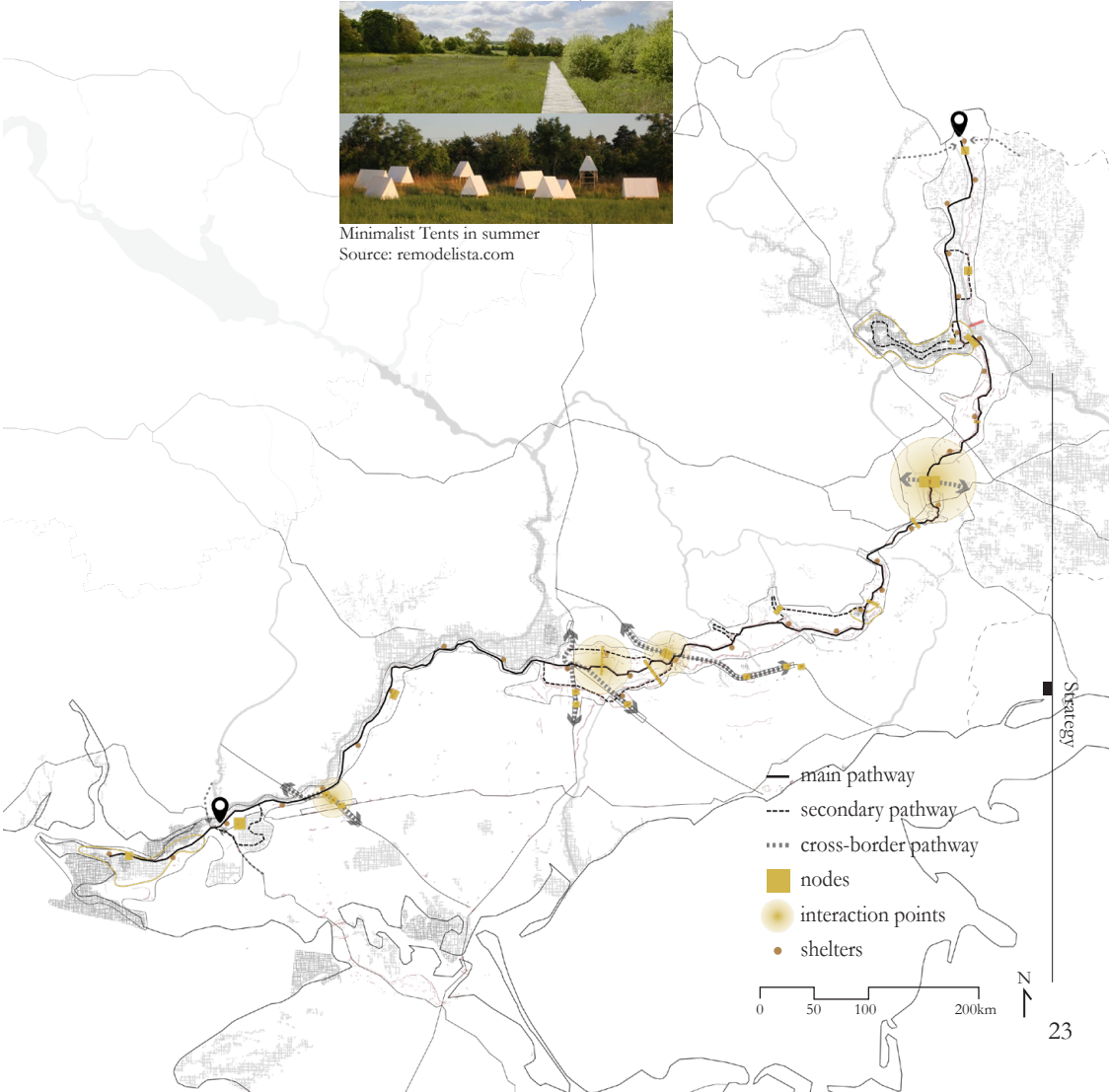
2374.8 km pathway
Around Two months on foot

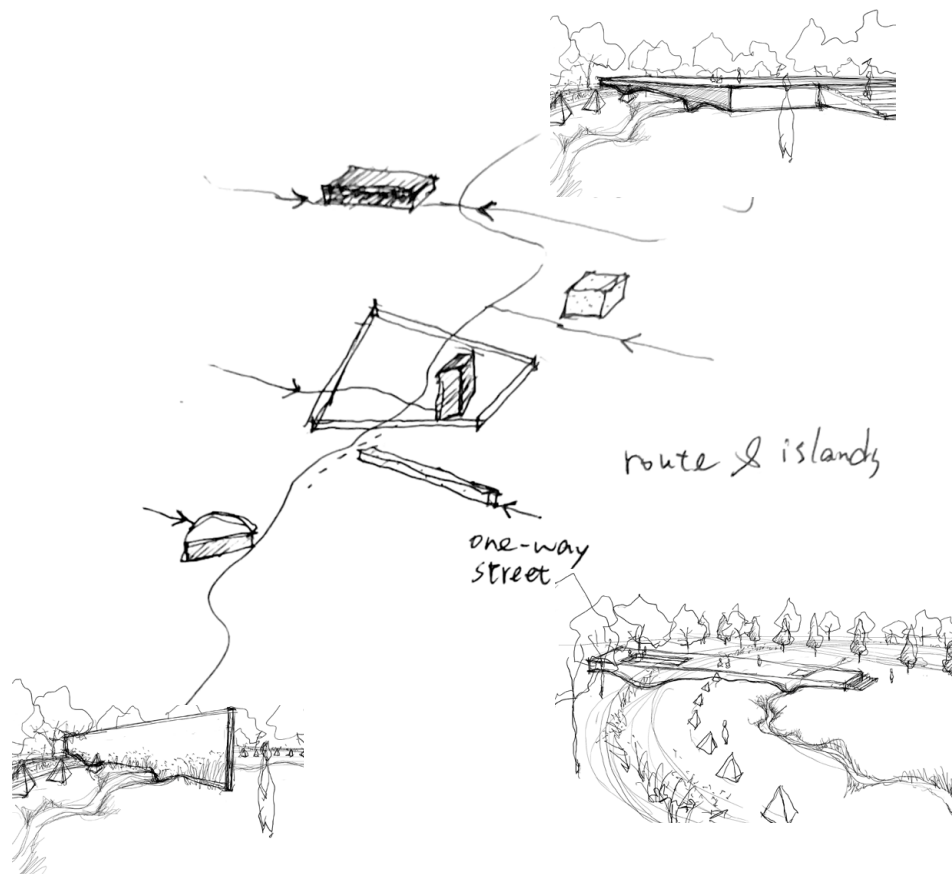
An elevated path.

The 49th cultural route at the borer of Esat and West.



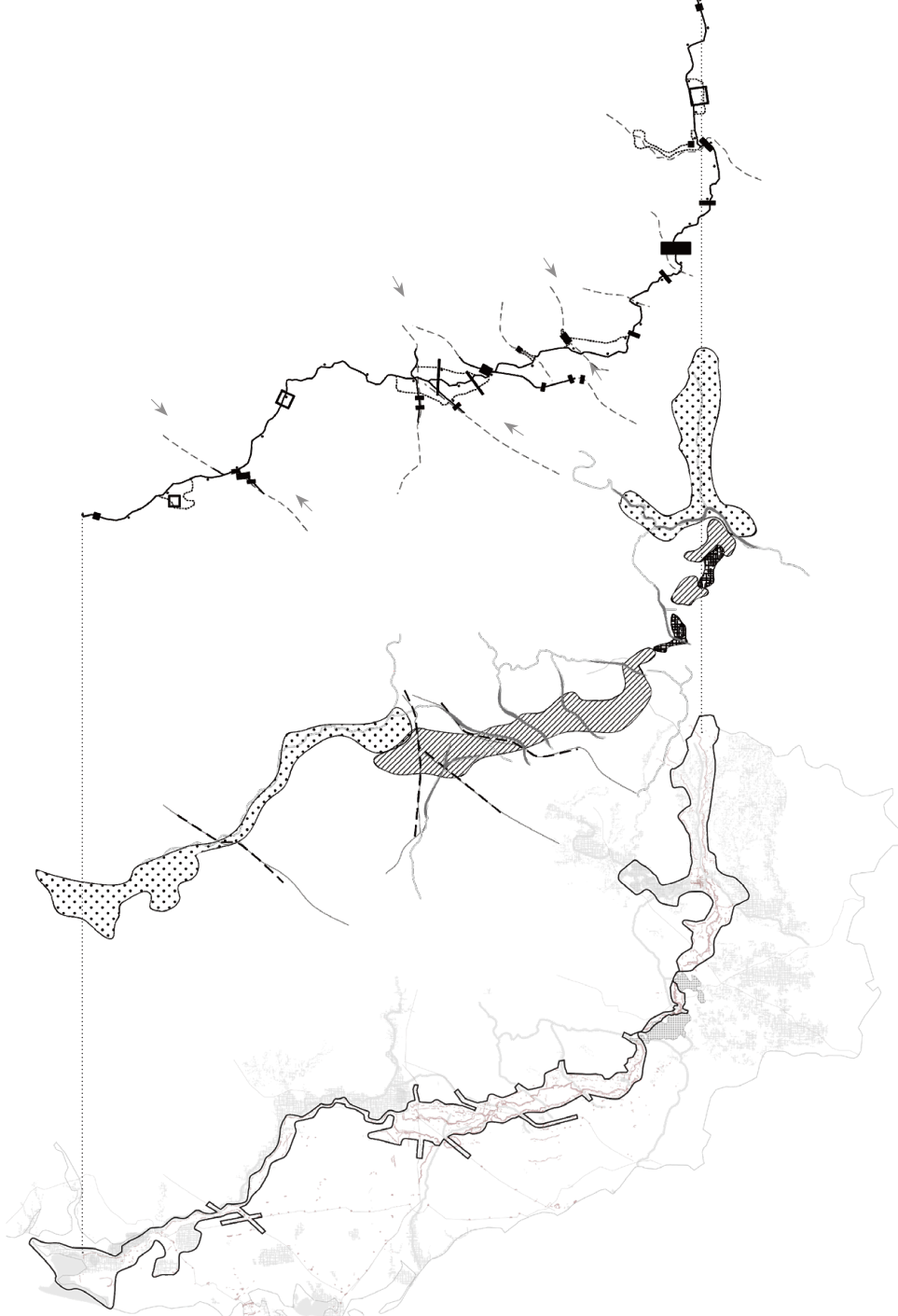
Minimalist Tents in summer
Source: remodelista.com





" Distant but Deeply Perceiving "

The backbone of peace along the Eurasian border.



ROUTE AND "NODES"

- "Nodes"- subtle landscape elements
 - The cultural route
- In each sector, "Nodes" are landscape objects that are subtly introduced into the environment, inviting individuals to enter, observe, and experience from a suitable distance.

FIVE "SECTORS"

- Monumental sector
 - ▨ Agricultural sector
 - ⋯ Natural sector
 - River crossing sector
 - Road crossing sector
- Every sector requires specialized restoration treatments that reflect its unique landscape characteristics, offering experiences and reflections for individuals.

NEUTRAL ZONE

ROUTE AND "NODES"

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- The cultural route

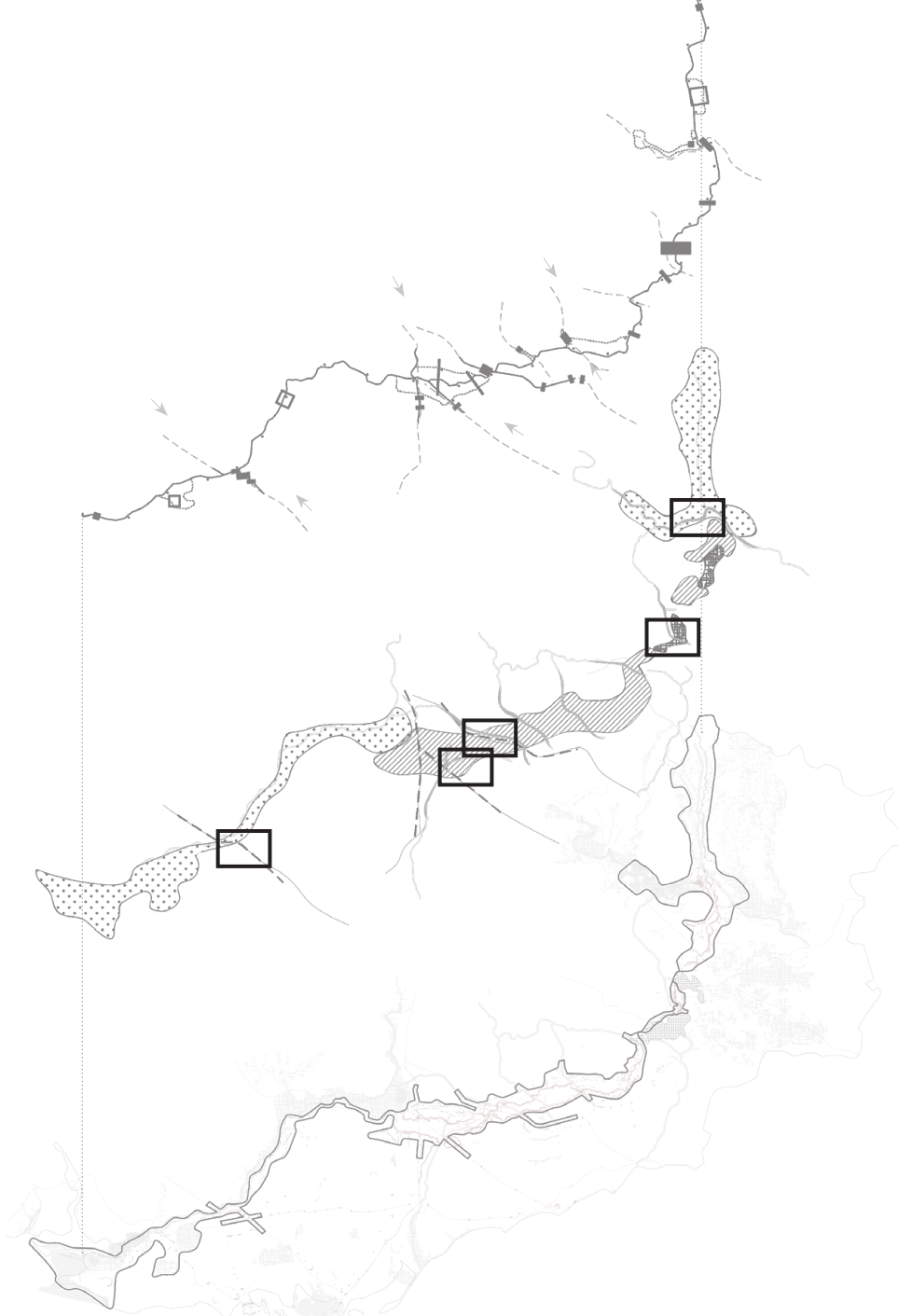
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NEUTRAL ZONE



"Sectors"

Route Crossing Sector

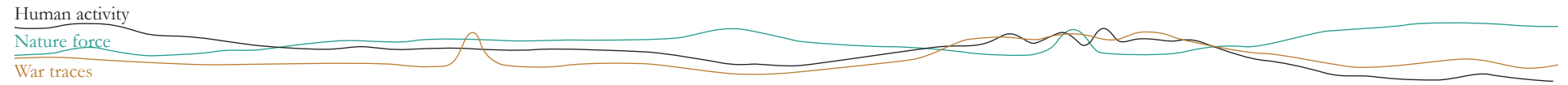
Agricultural Sector

River Crossing Sector

Memorial Sector

Natural Sector

Human activity
Nature force
War traces



**Defensive
Elements
Interpretation**

Anti-tank ditches



Tree groups or Bushy corridor



Minefield



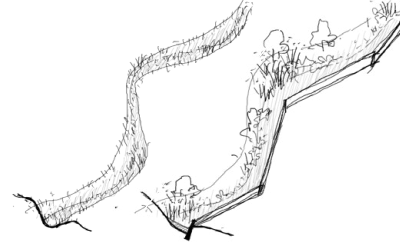
Craters planted with
phytoremediation species



Trenches



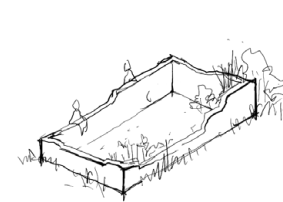
Grass ditches or Eco-ditches with wall



Bunkers



Opened Bunkers



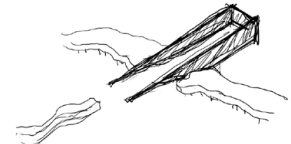
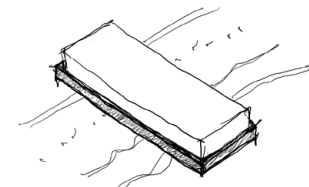
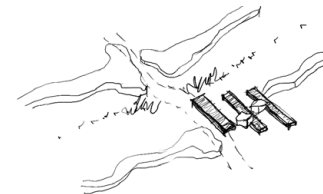
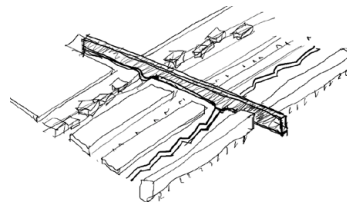
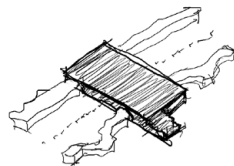
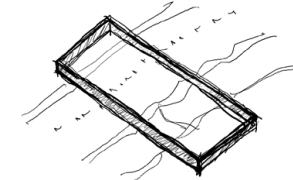
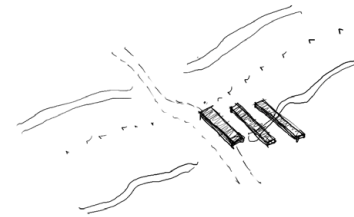
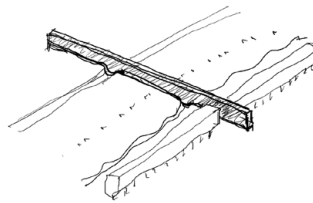
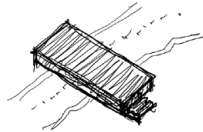
Tank firepoints



Tree indicators



"Nodes"



Route Crossing Sector

Agricultural Sector

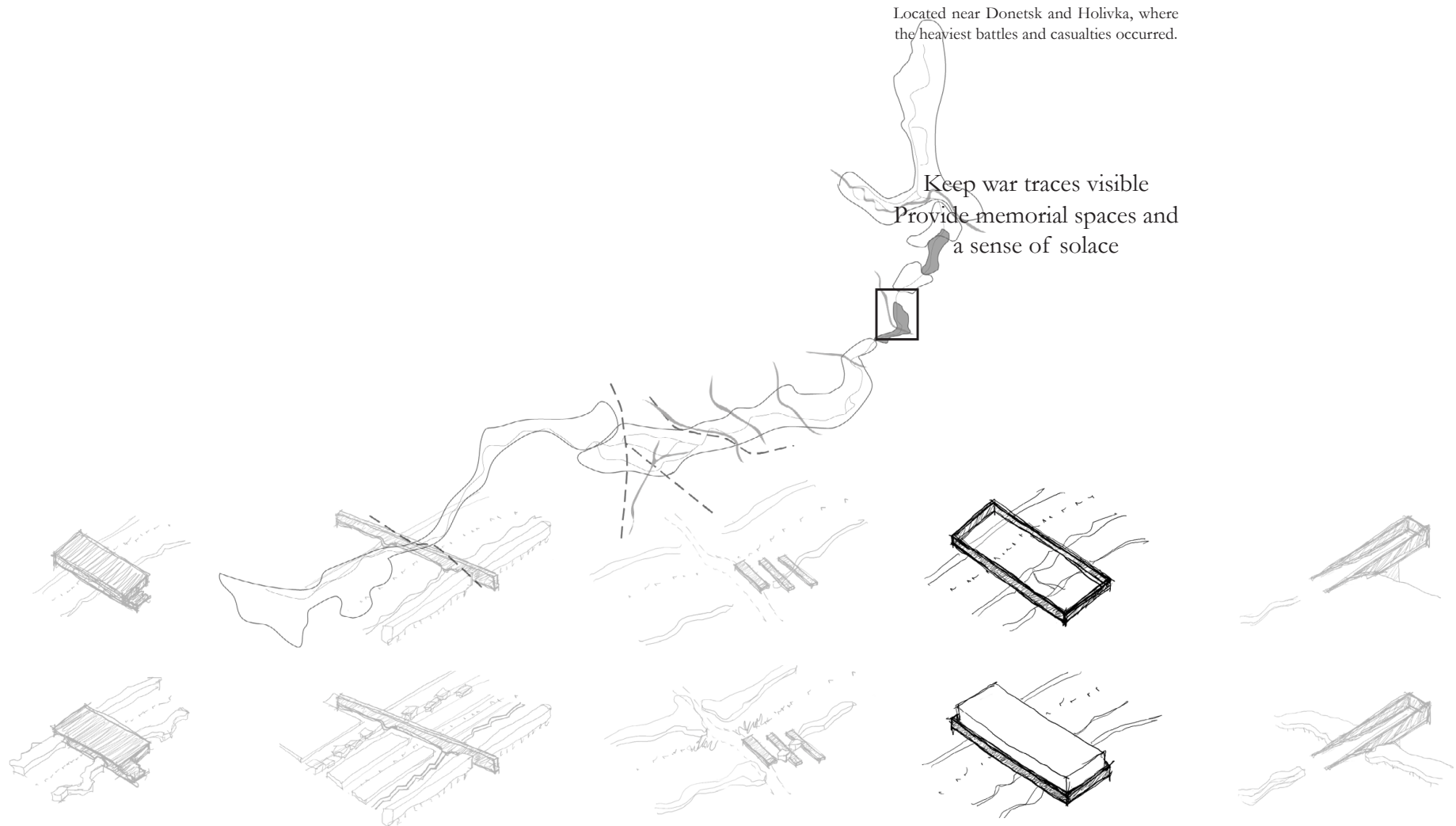
River Crossing Sector

Memorial Sector

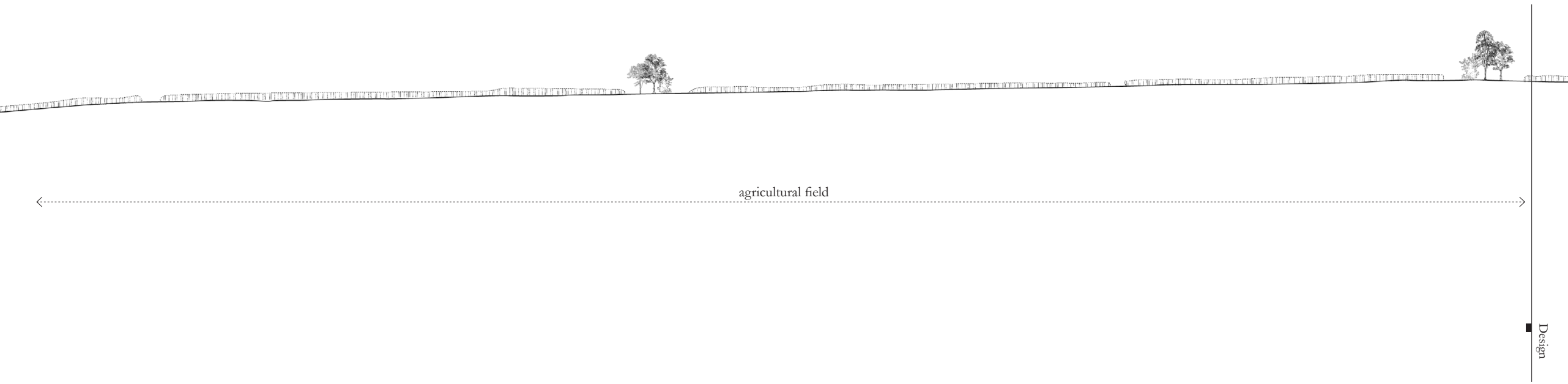
Natural Sector

Located near Donetsk and Holivka, where
the heaviest battles and casualties occurred.

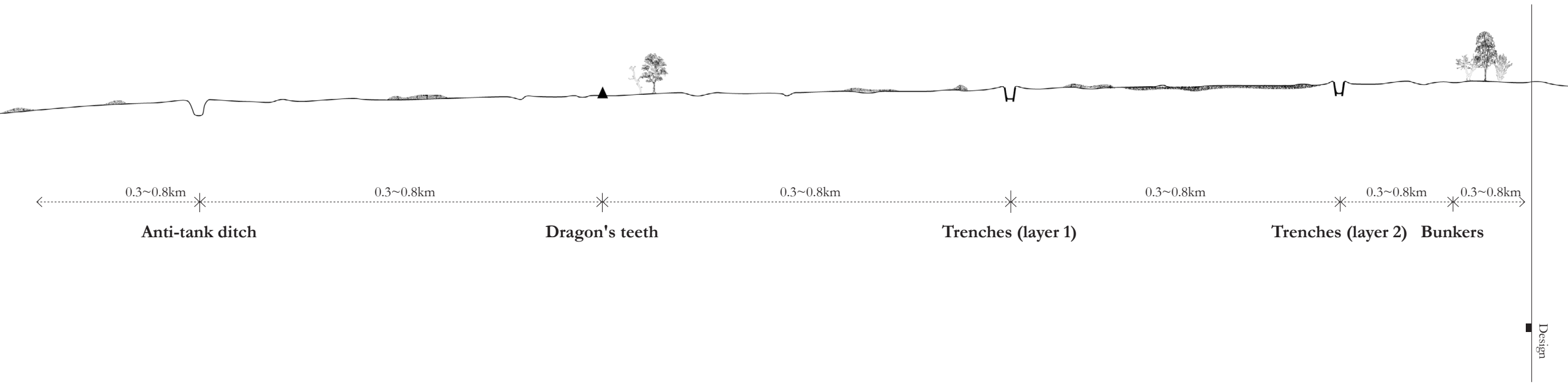
Keep war traces visible
Provide memorial spaces and
a sense of solace

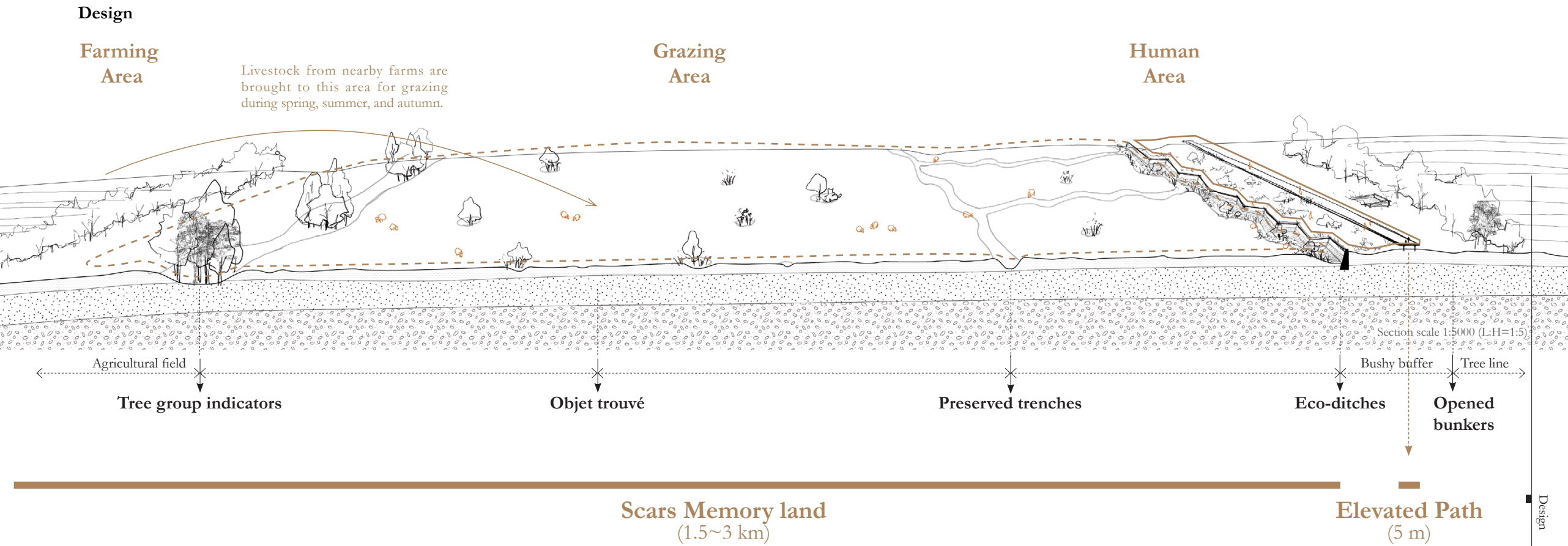


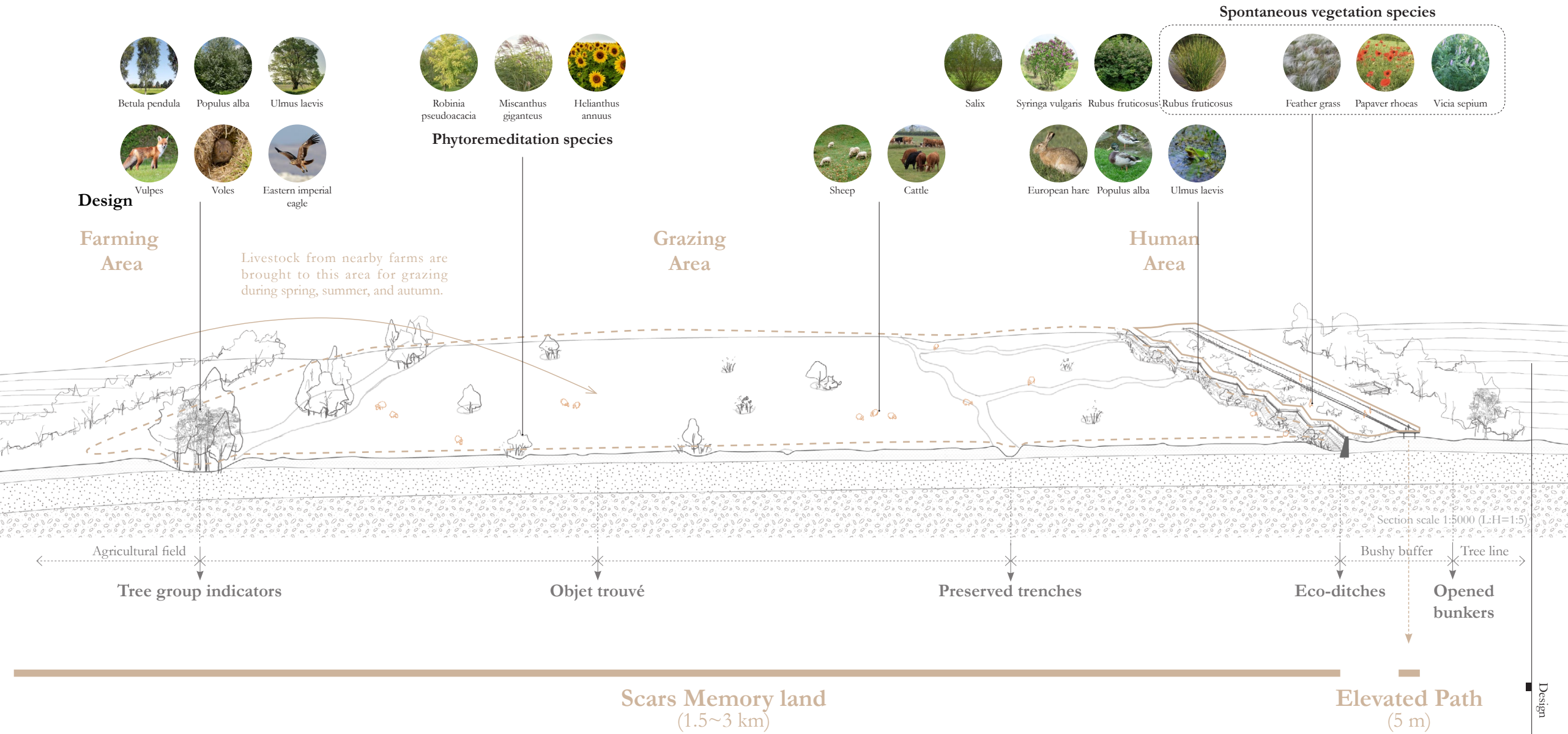
Before war

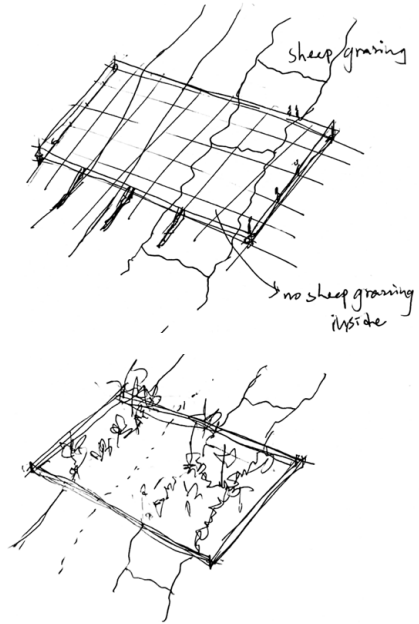


Current



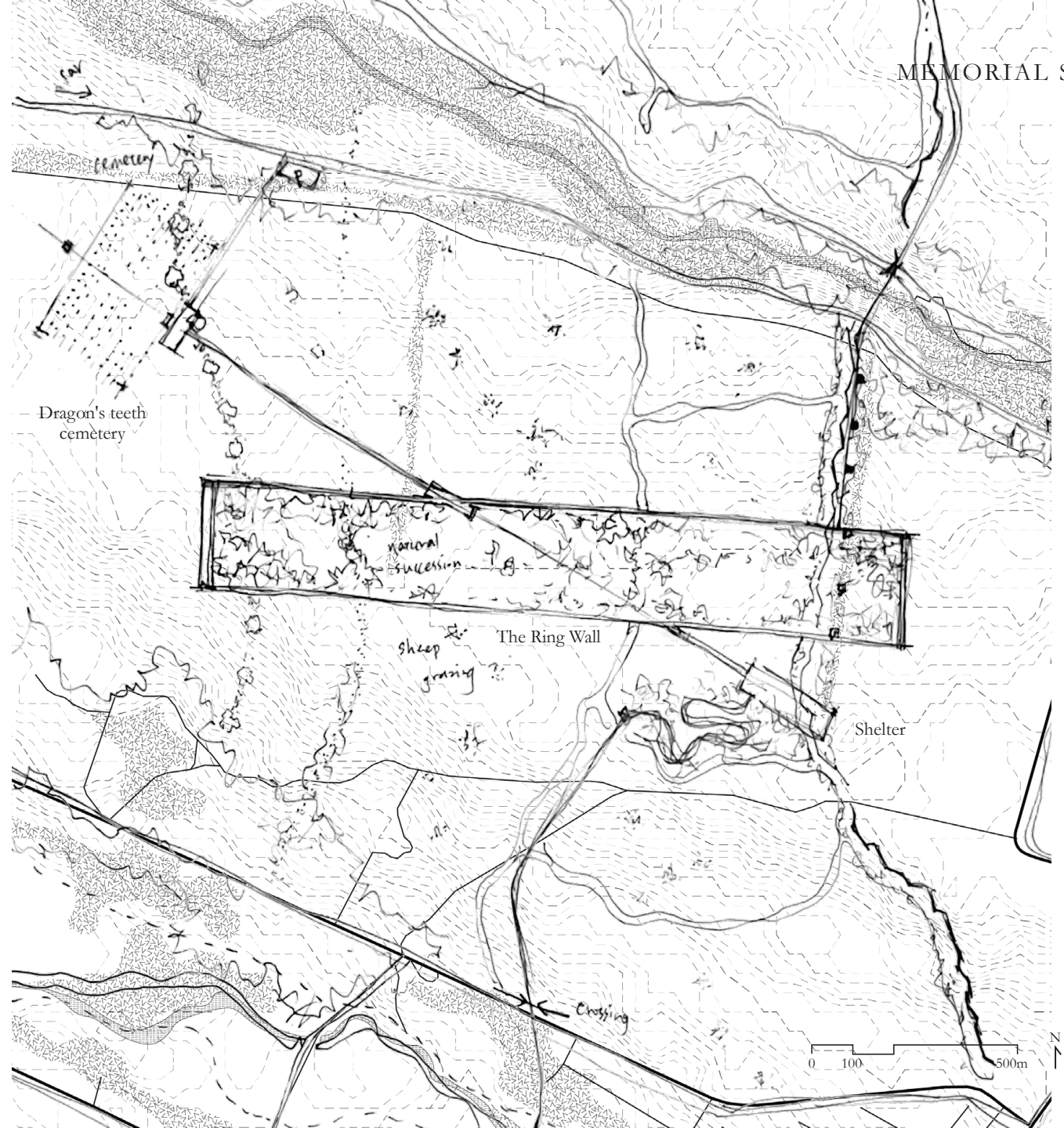






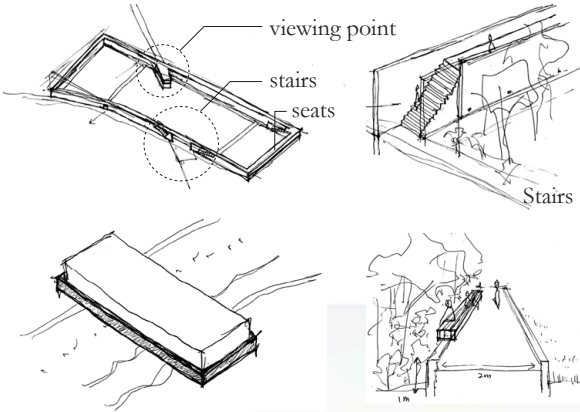
Witnessing the Passage of Time

[Preserved scarred landscape
 ↑ contrast
 Continued vegetative succession]

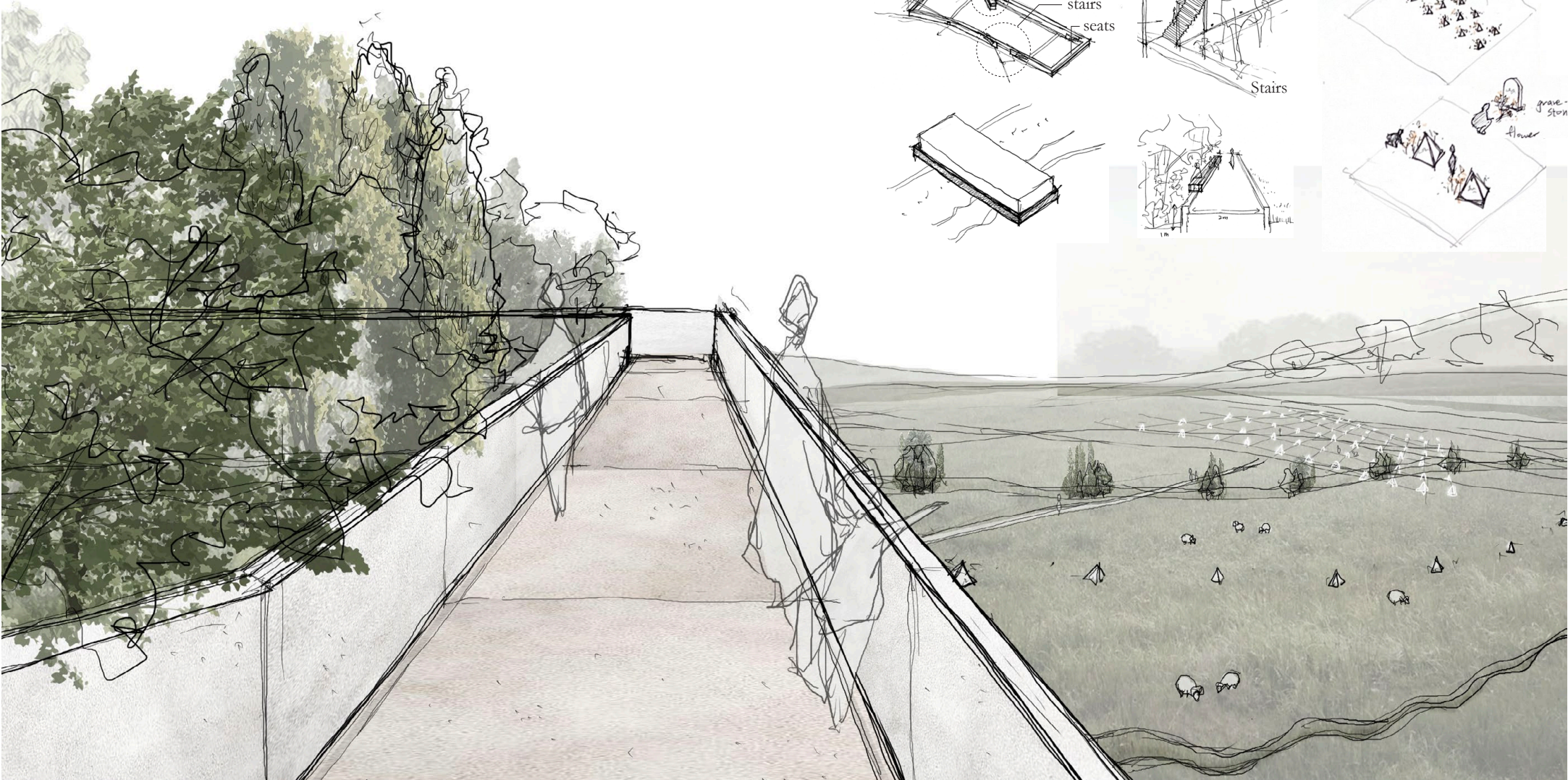
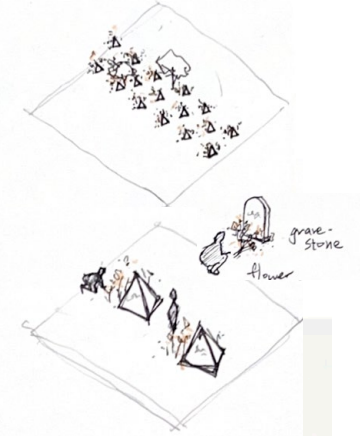




Time Ring Wall



Dragon's Tooth Cemetery



Route Crossing Sector

Agricultural Sector

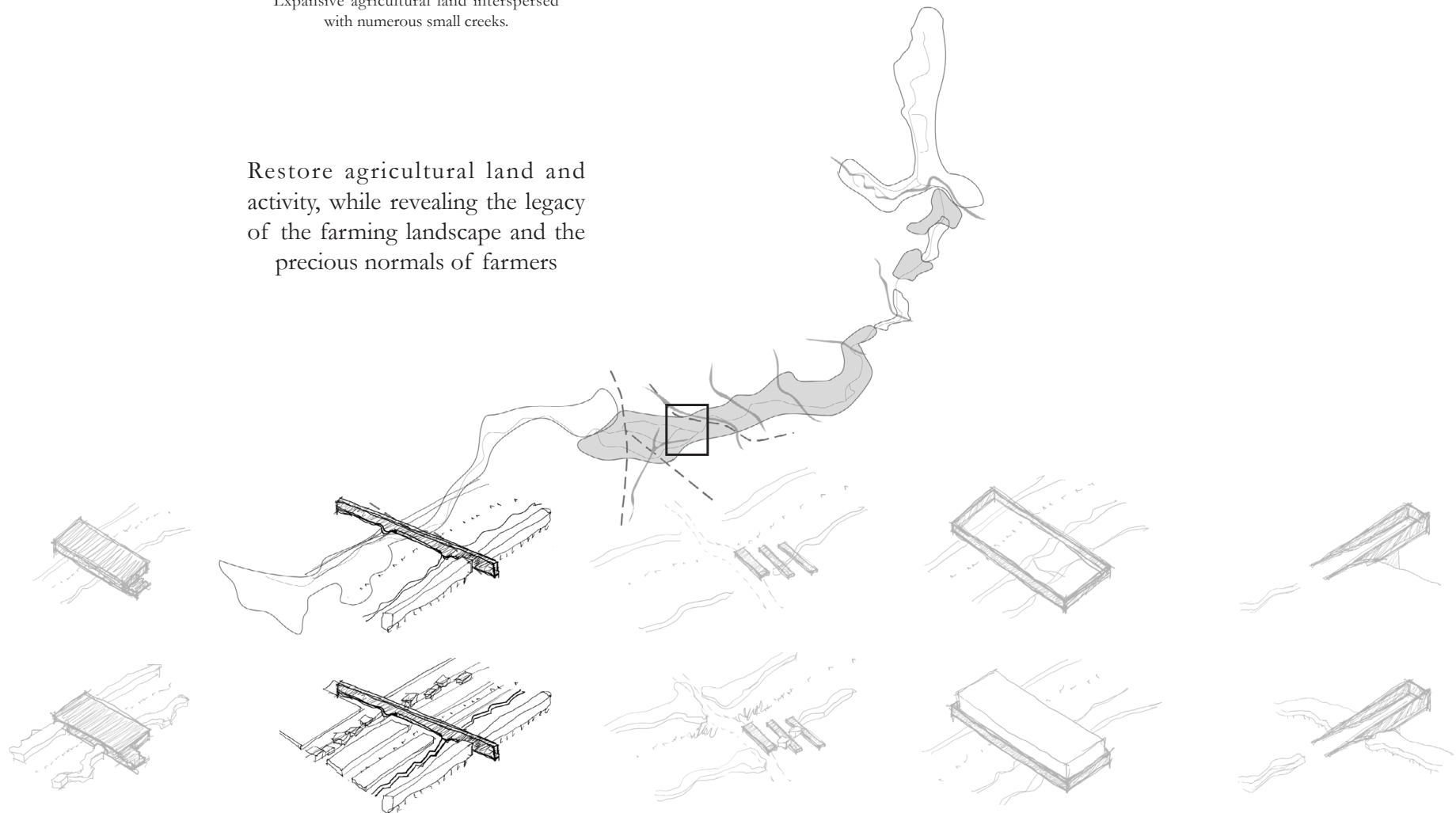
River Crossing Sector

Memorial Sector

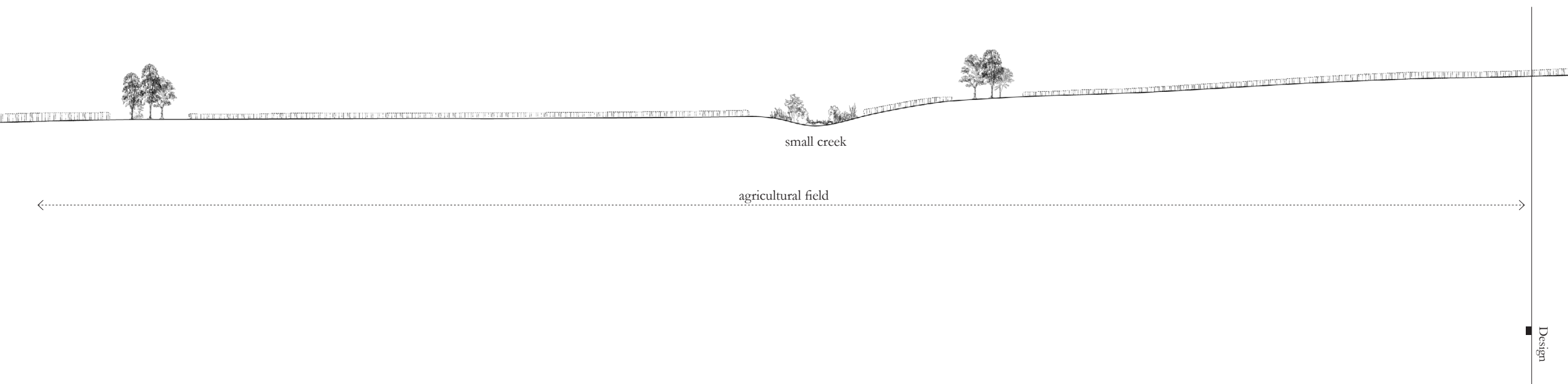
Natural Sector

Expansive agricultural land interspersed
with numerous small creeks.

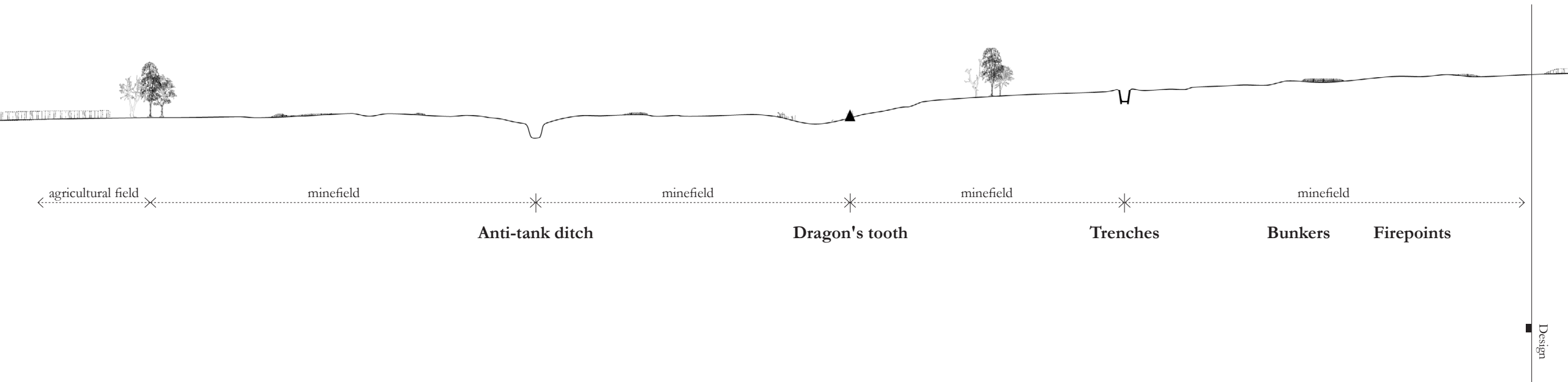
Restore agricultural land and
activity, while revealing the legacy
of the farming landscape and the
precious normals of farmers



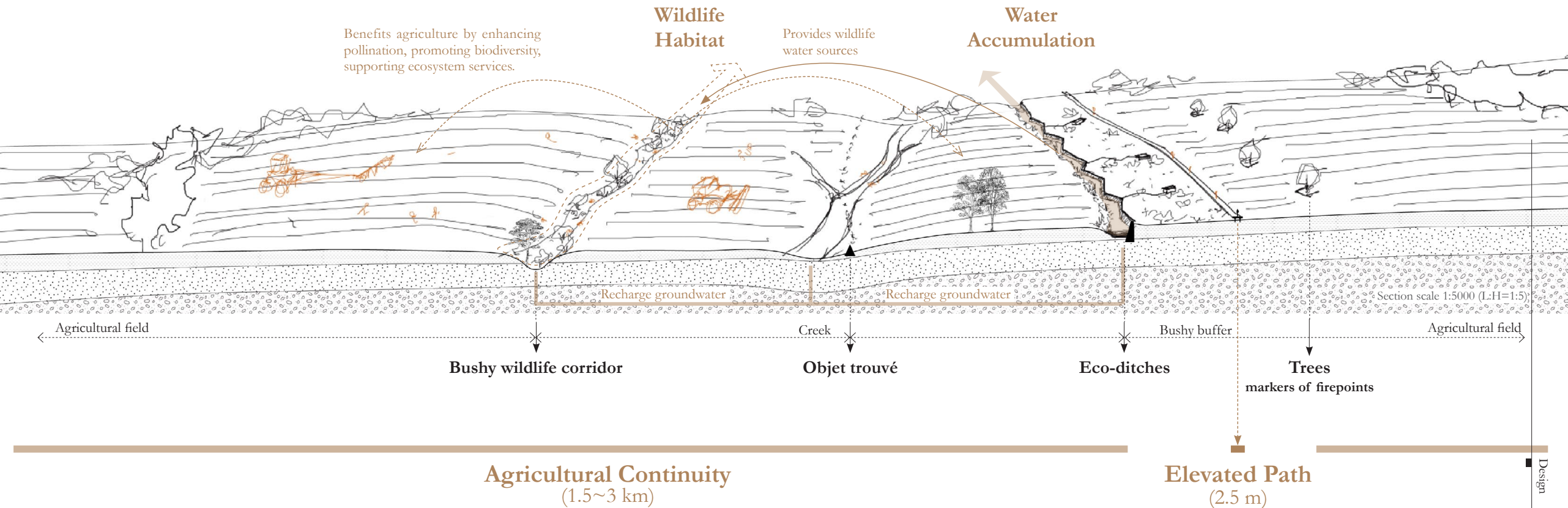
Before war



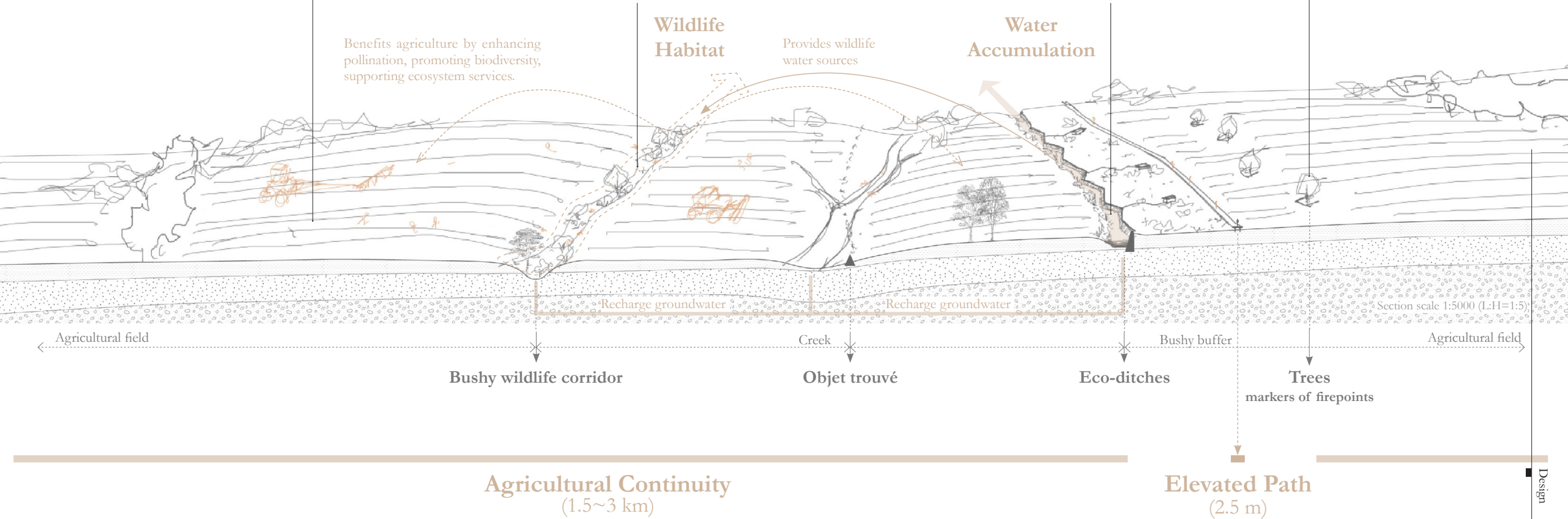
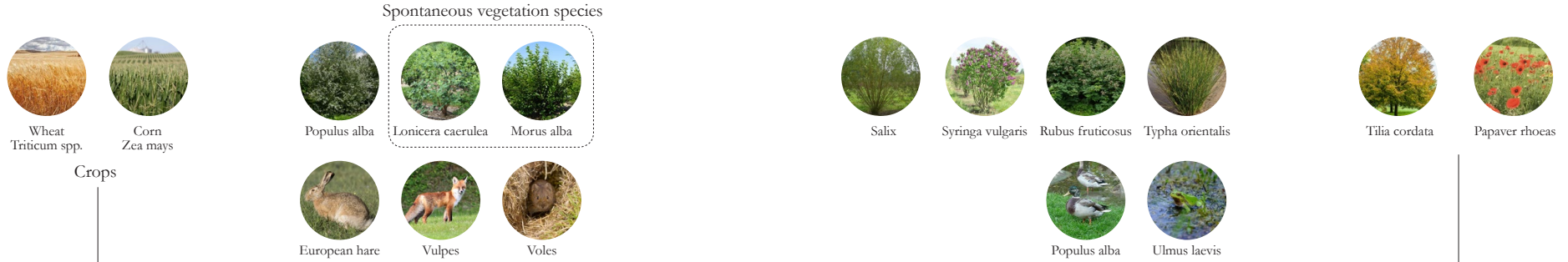
Current

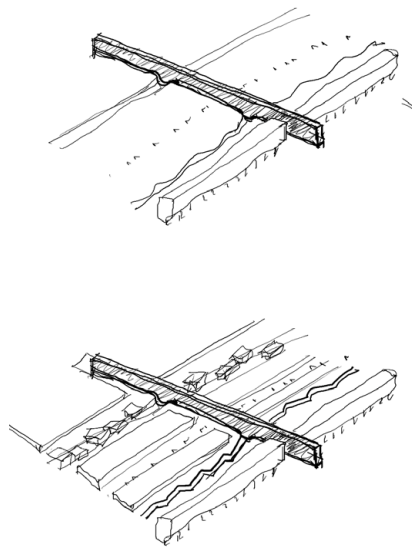


Design



Design

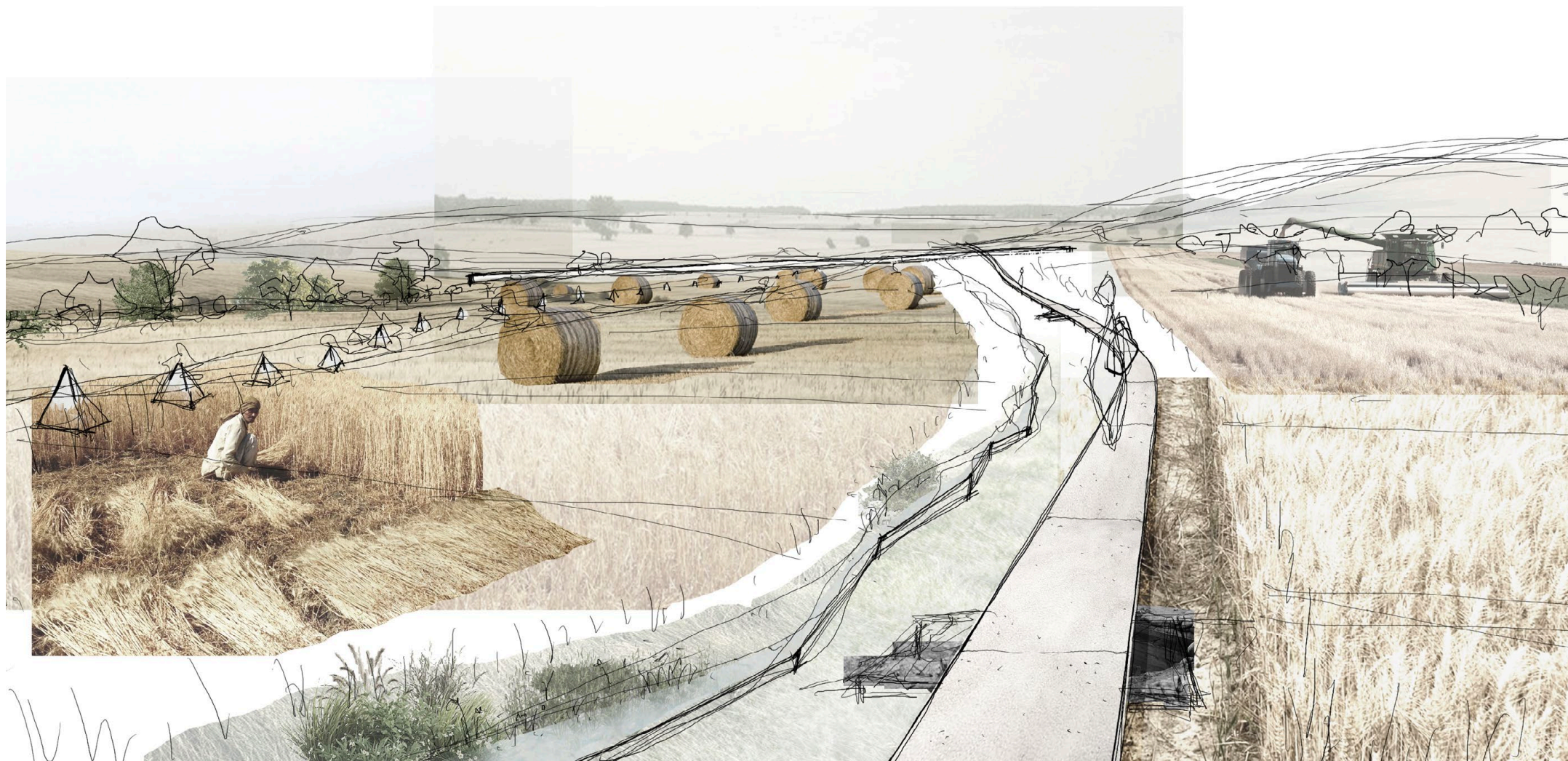


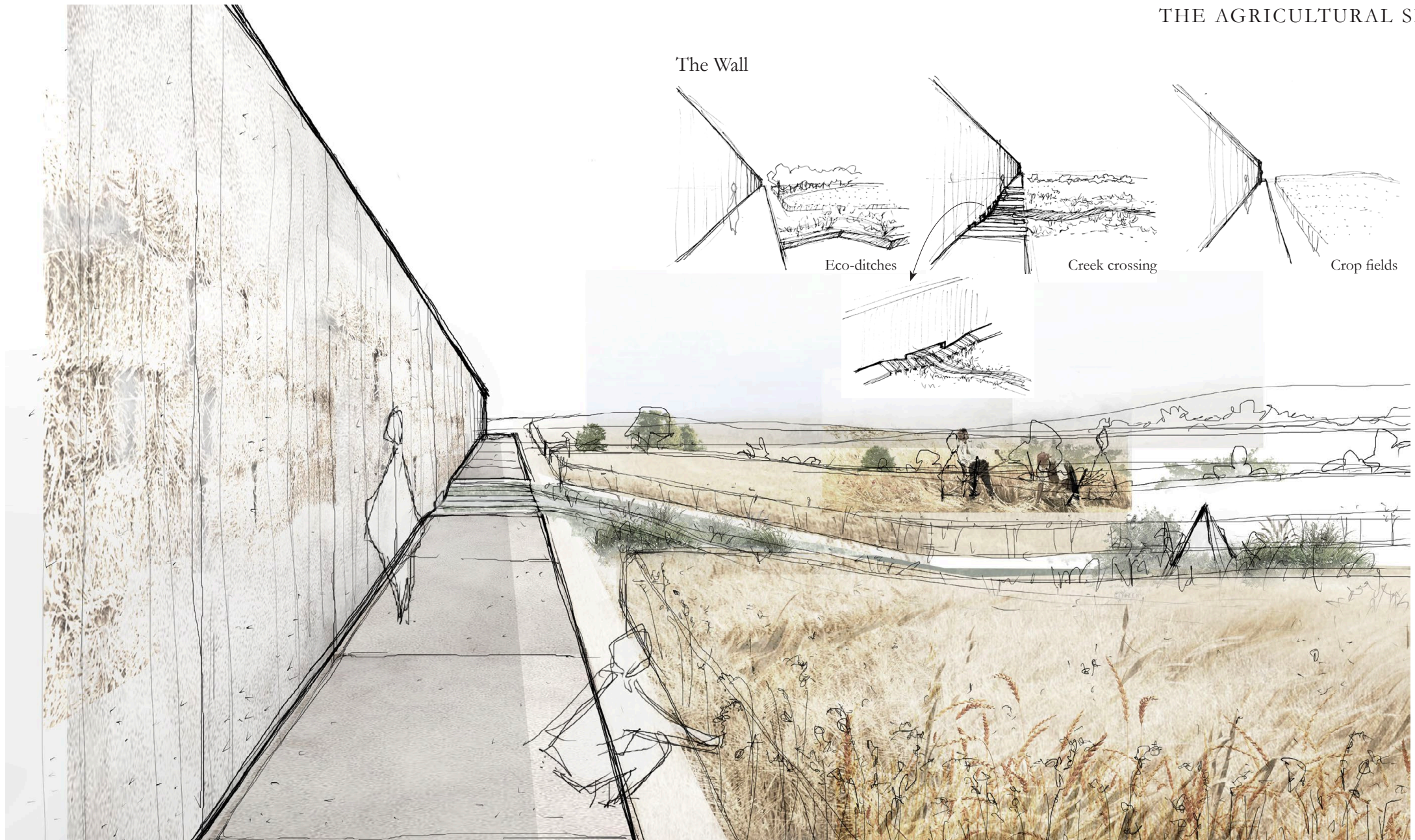


Revealing the Legacy of War Remnants and Agriculture

Fixed and stable structure
↓ reveal
Diverse landscape features







THE AGRICULTURAL SECTOR

Fire point platform



Tank firepoint at war



Route Crossing Sector

Located along key routes connecting both sides of the zone, which are blocked by an oval-shaped defensive layout every few kilometers.

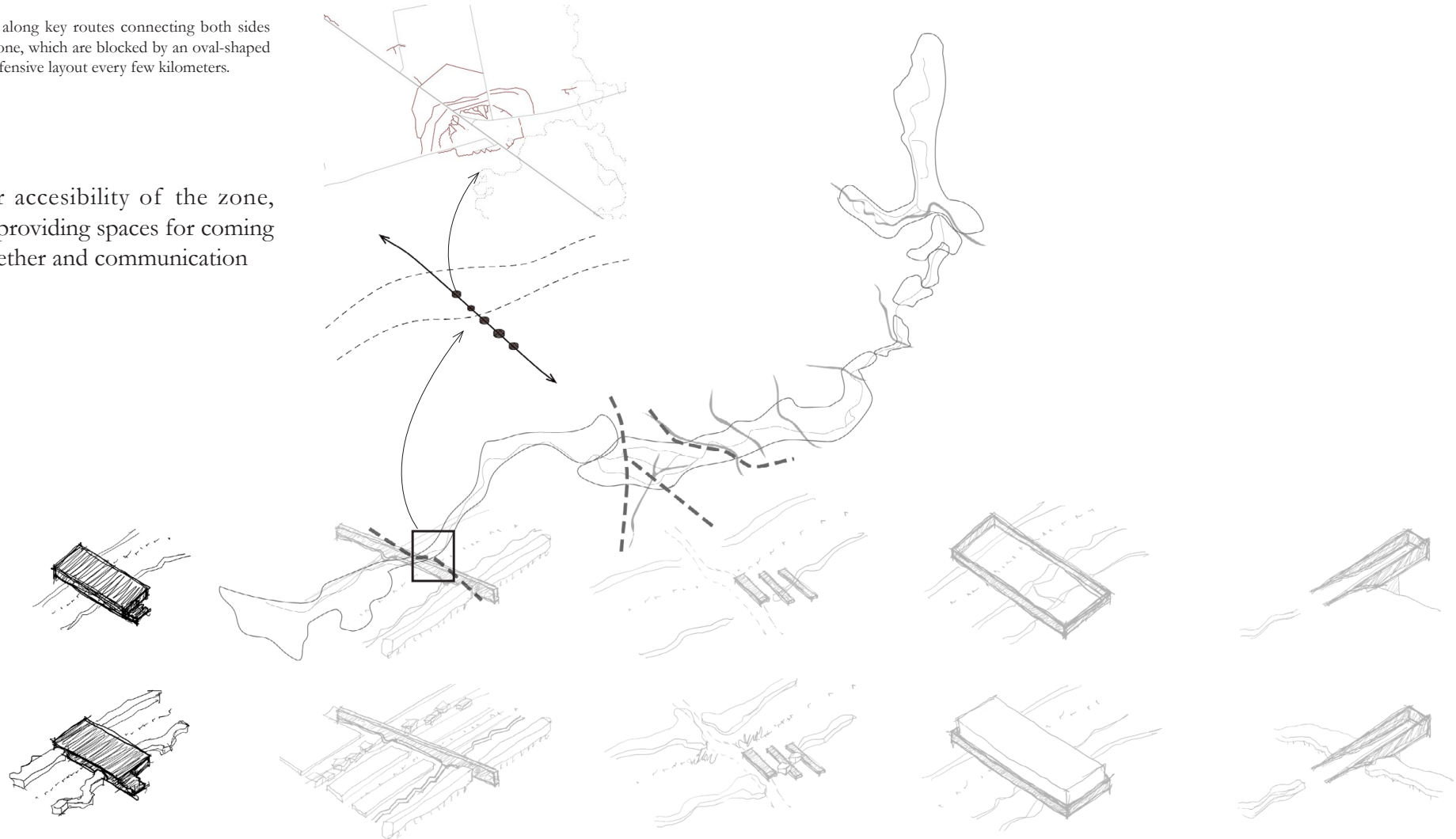
Foster accesibility of the zone, while providing spaces for coming together and communication

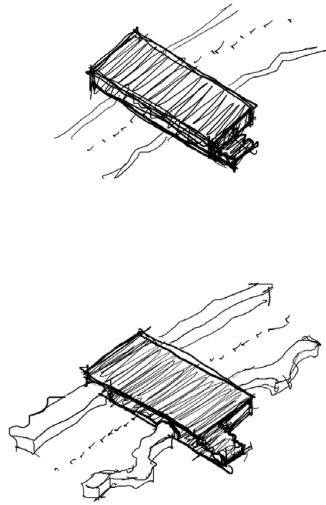
Agricultural Sector

River Crossing Sector

Memorial Sector

Natural Sector

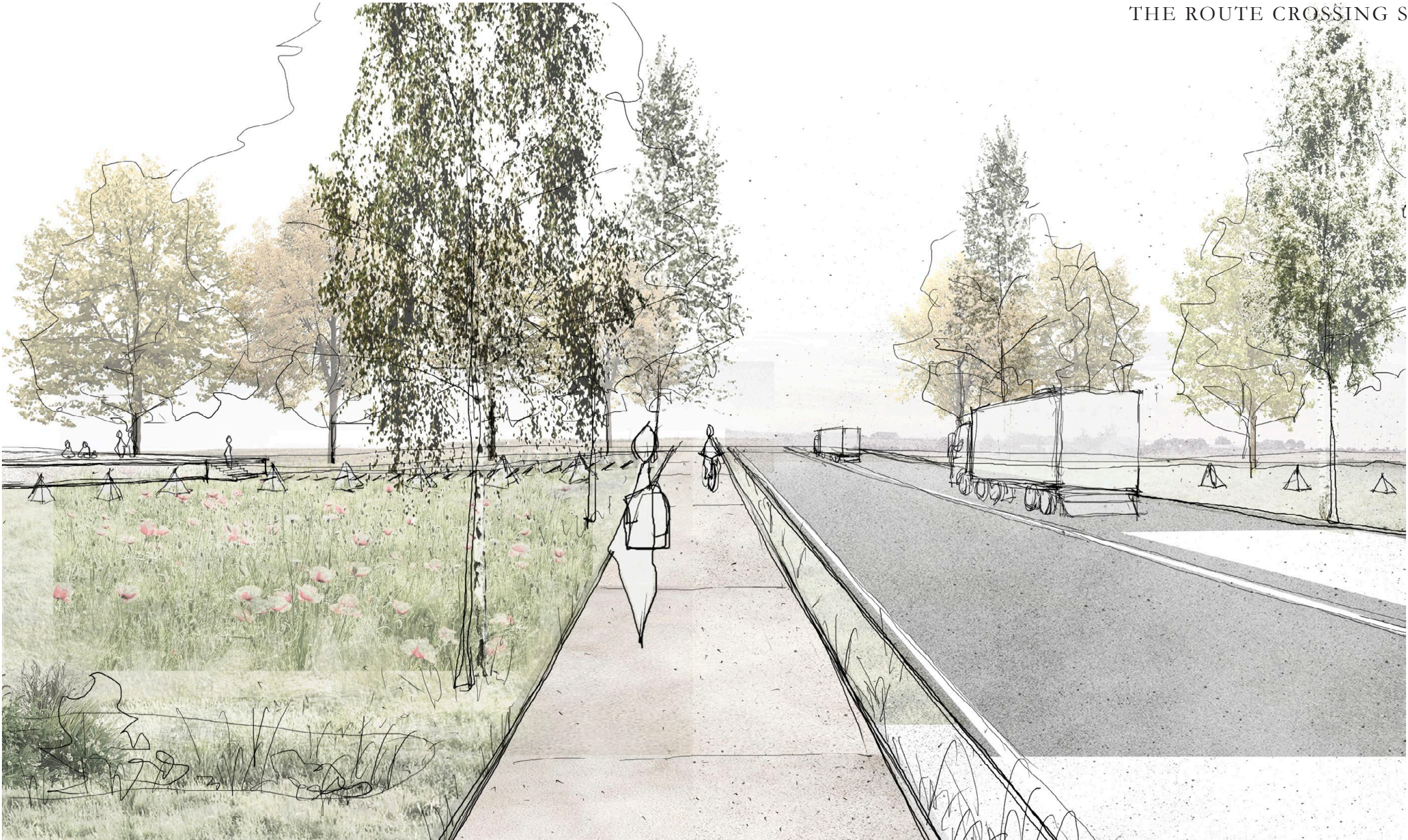




Fostering Interaction and Communication

[Stable resting points
↑ contrast
Busy and dynamic traffic]

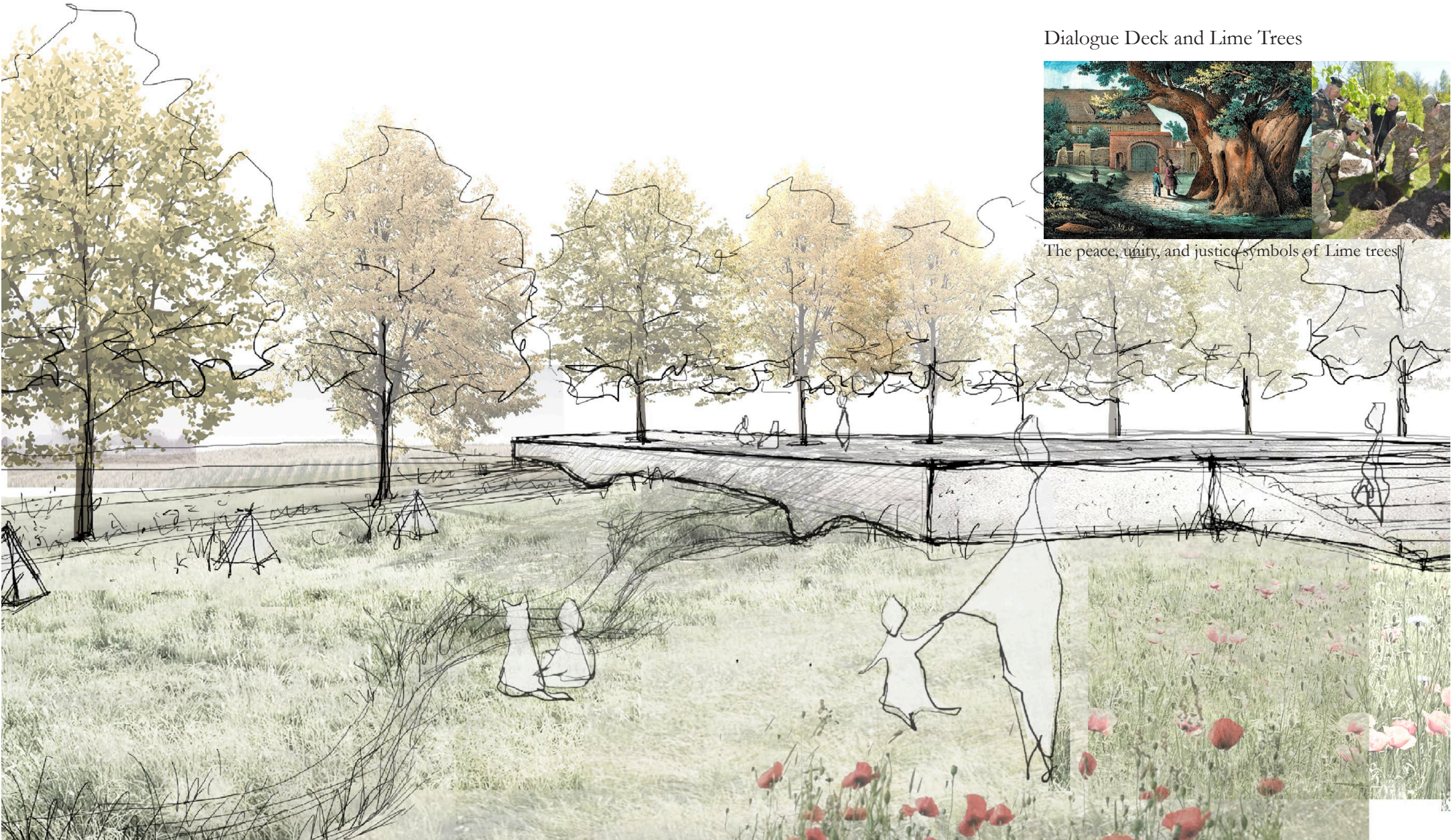




Dialogue Deck and Lime Trees



The peace, unity, and justice symbols of Lime trees



Route Crossing Sector

Agricultural Sector

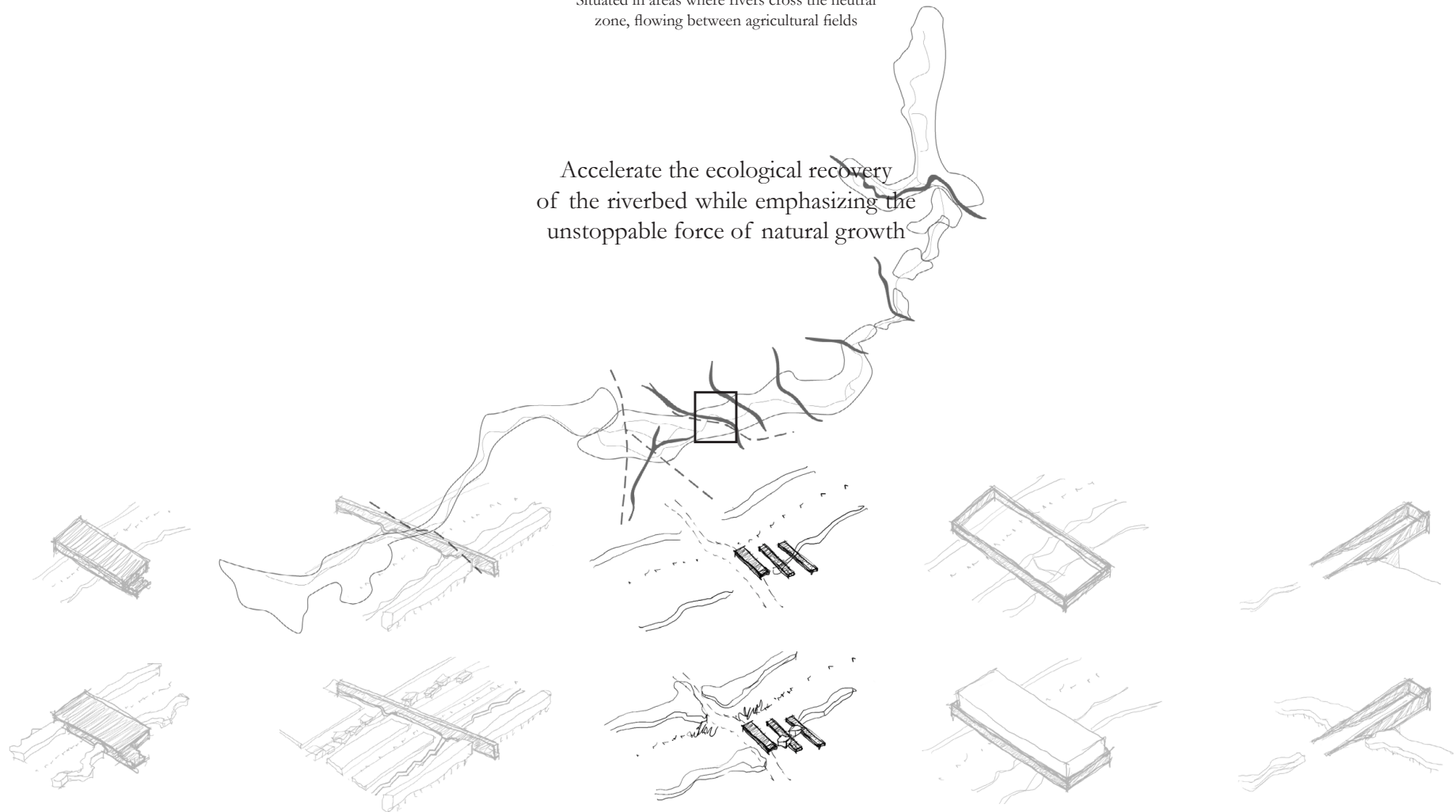
River Crossing Sector

Memorial Sector

Natural Sector

Situated in areas where rivers cross the neutral zone, flowing between agricultural fields

Accelerate the ecological recovery of the riverbed while emphasizing the unstoppable force of natural growth

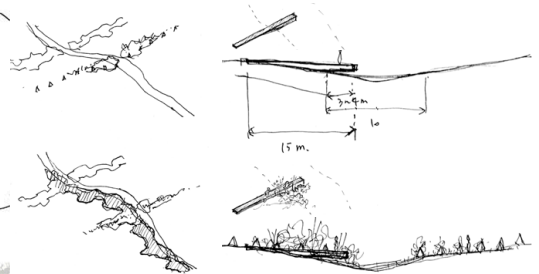




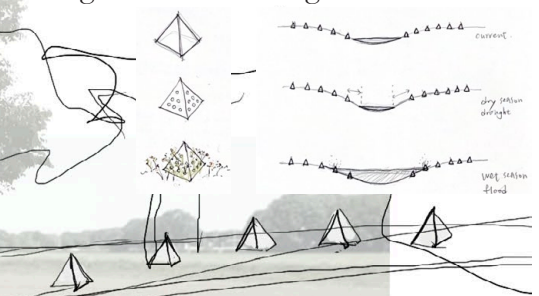


THE RIVER CROSSING SECTOR

Soil collectors



Ecological markers: Dragon's tooth



Route Crossing Sector

Agricultural Sector

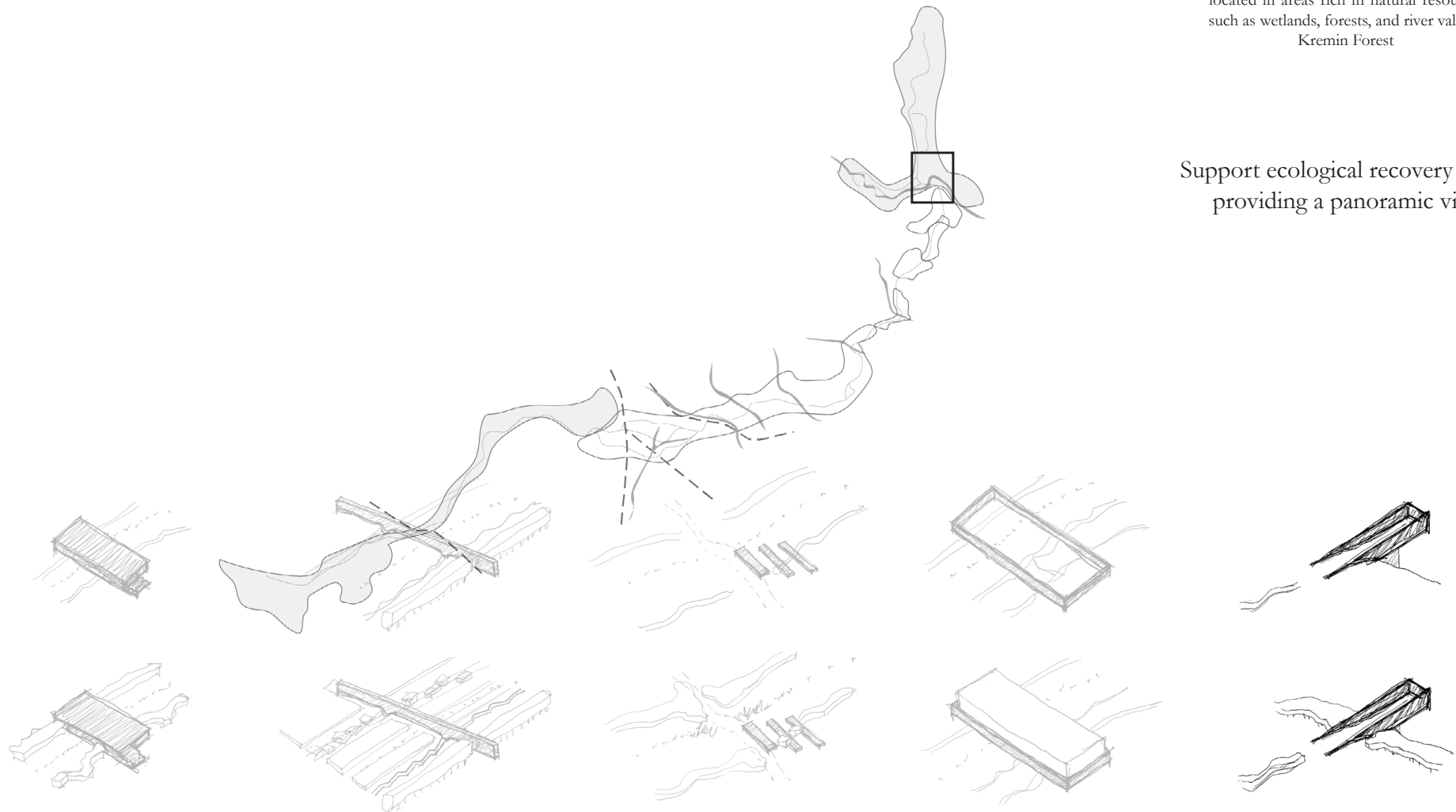
River Crossing Sector

Memorial Sector

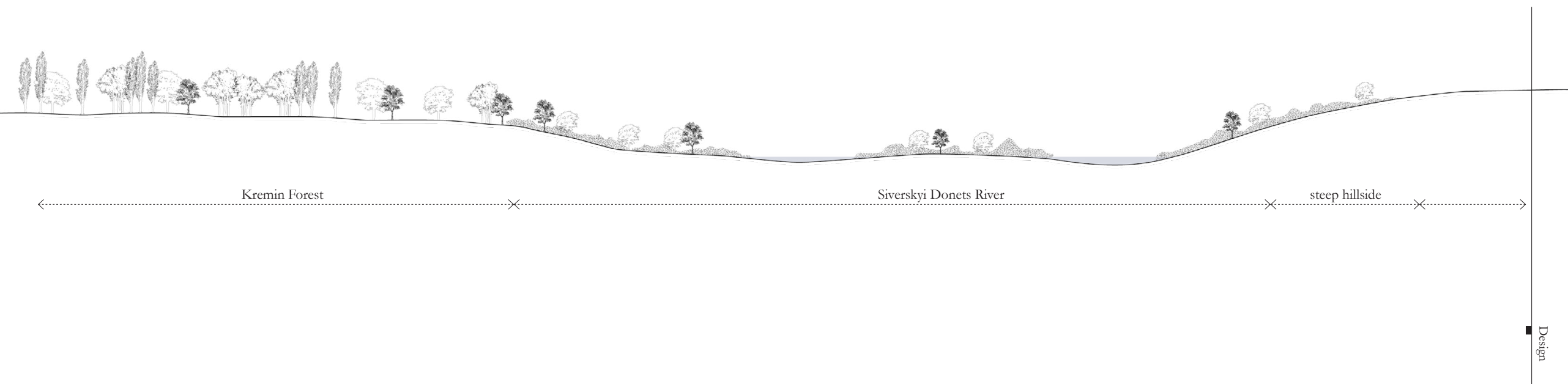
Natural Sector

located in areas rich in natural resources,
such as wetlands, forests, and river valleys.
Kremin Forest

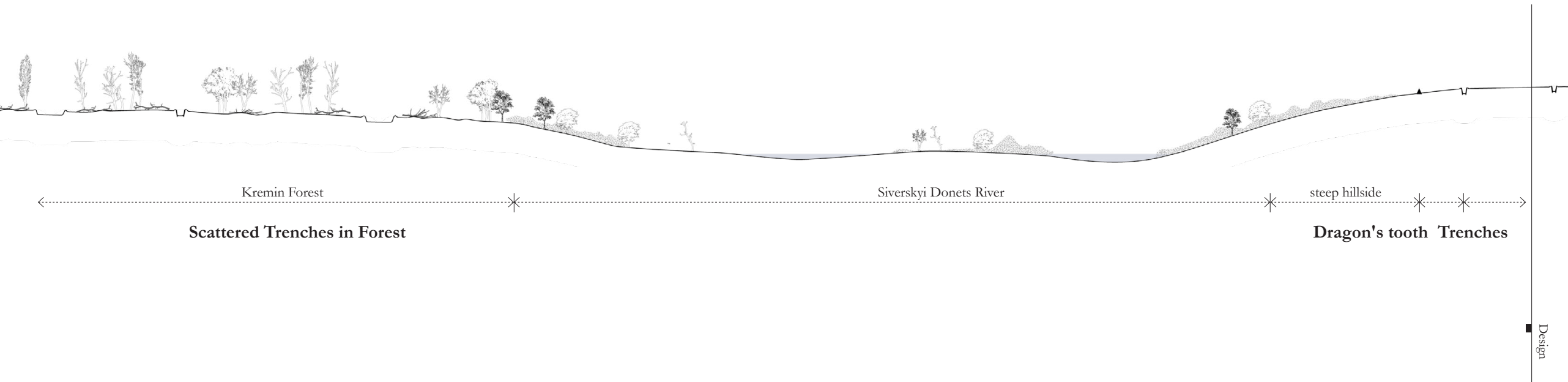
Support ecological recovery while
providing a panoramic view



Before war

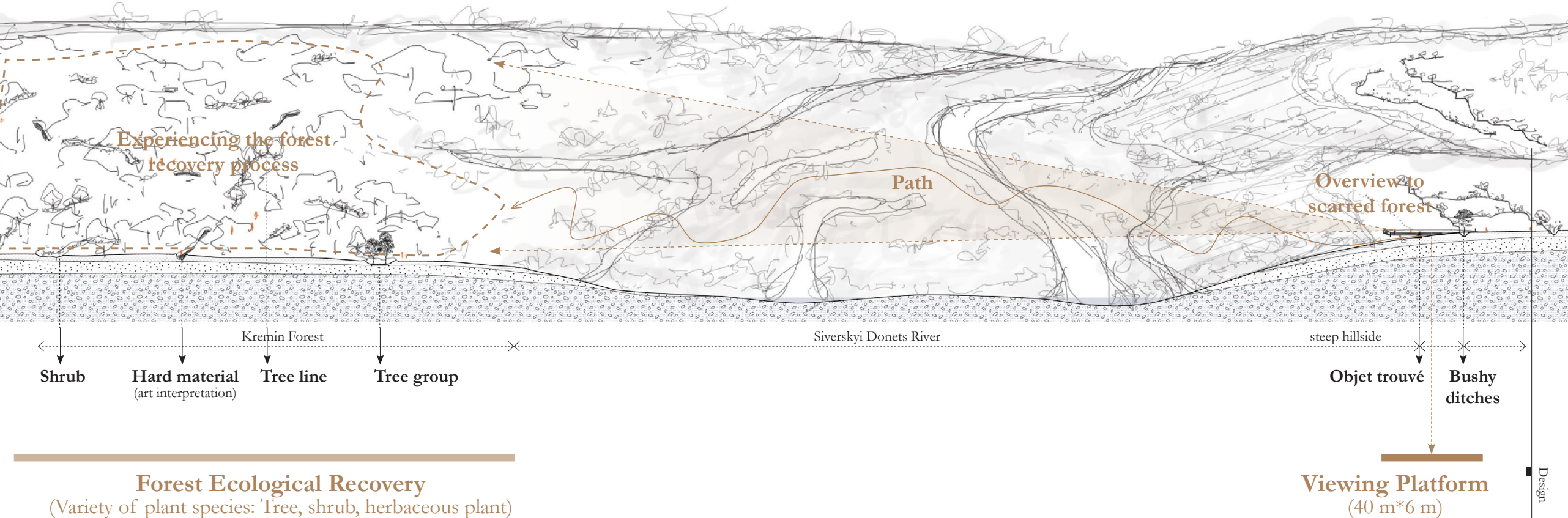


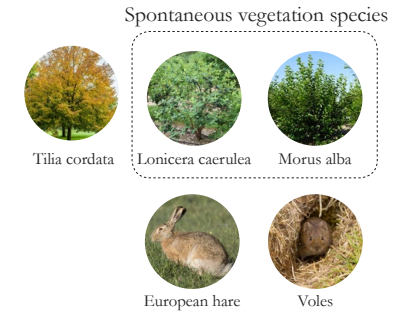
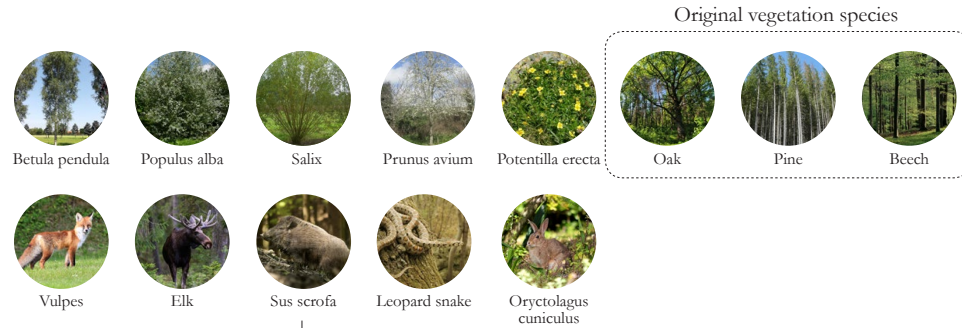
Current



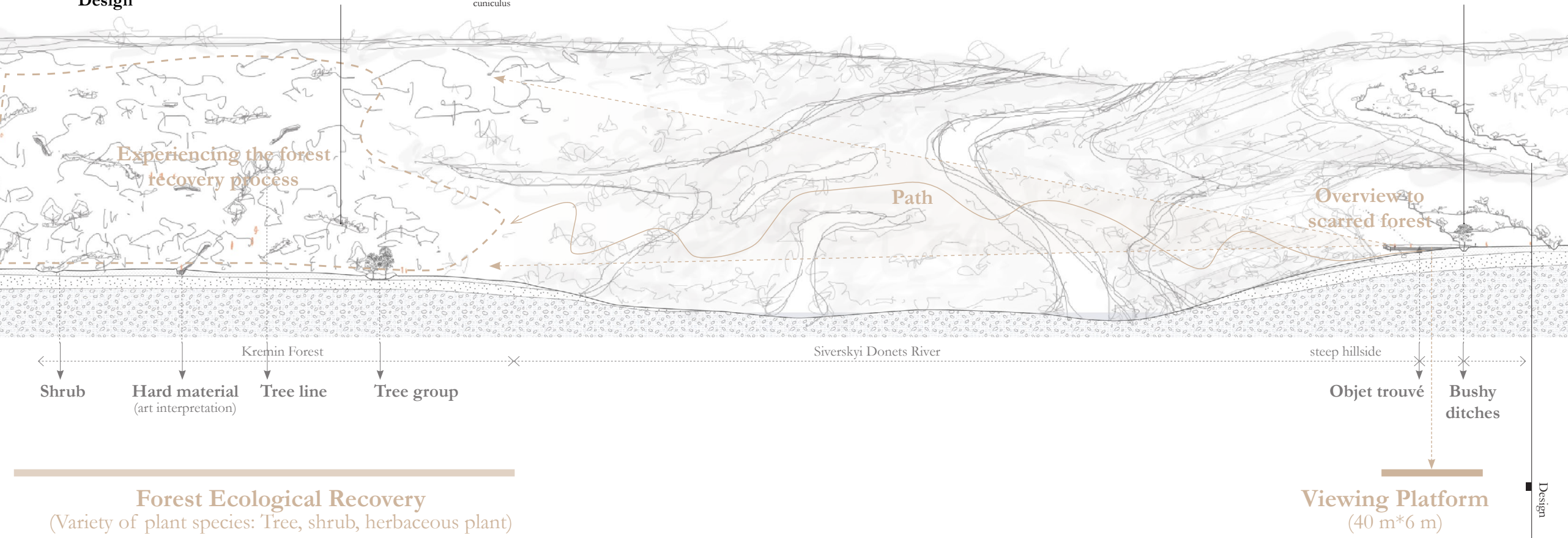
Scattered Trenches in Forest

Design





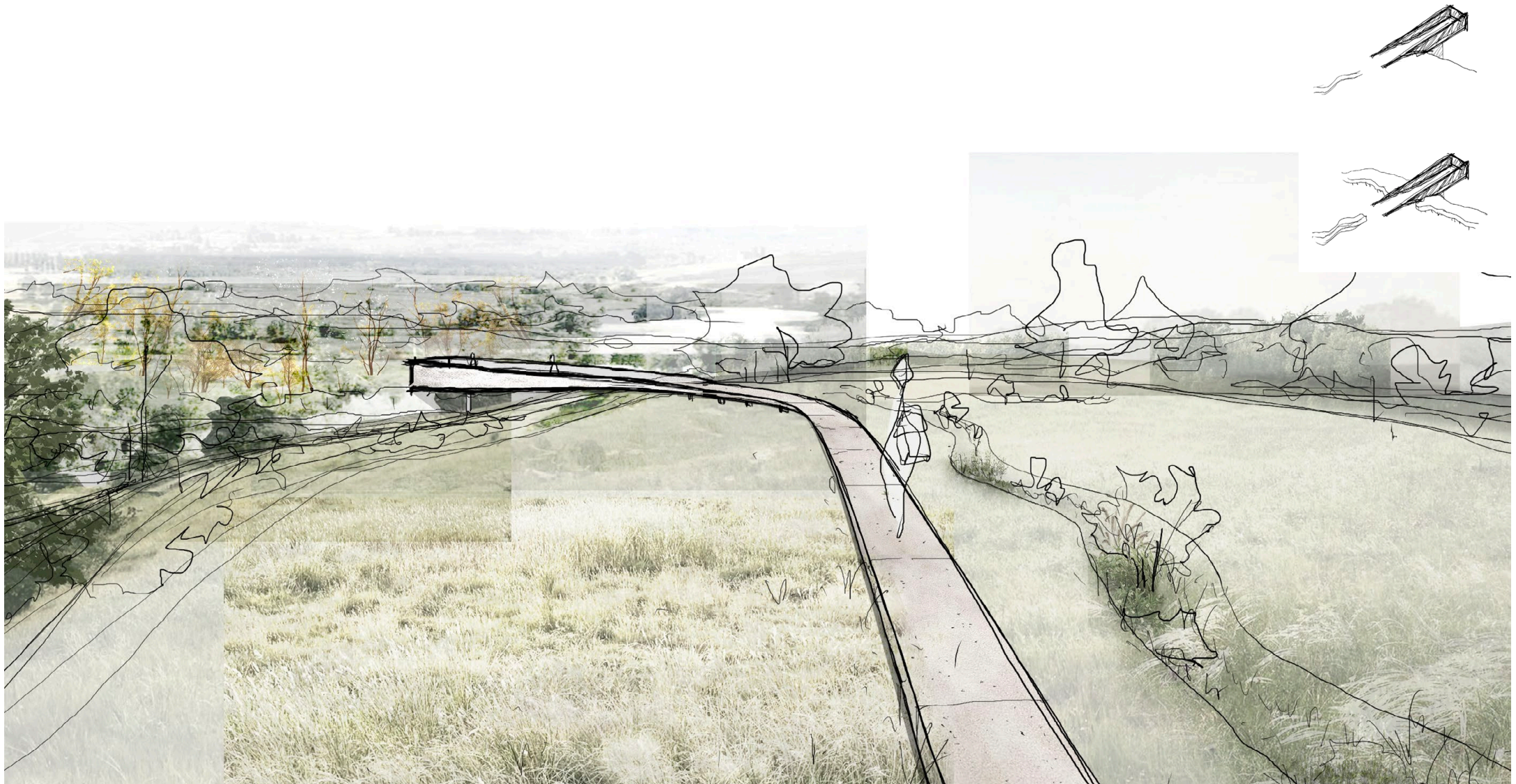
Design



Forest Ecological Recovery
(Variety of plant species: Tree, shrub, herbaceous plant)

THE NATURAL SECTOR

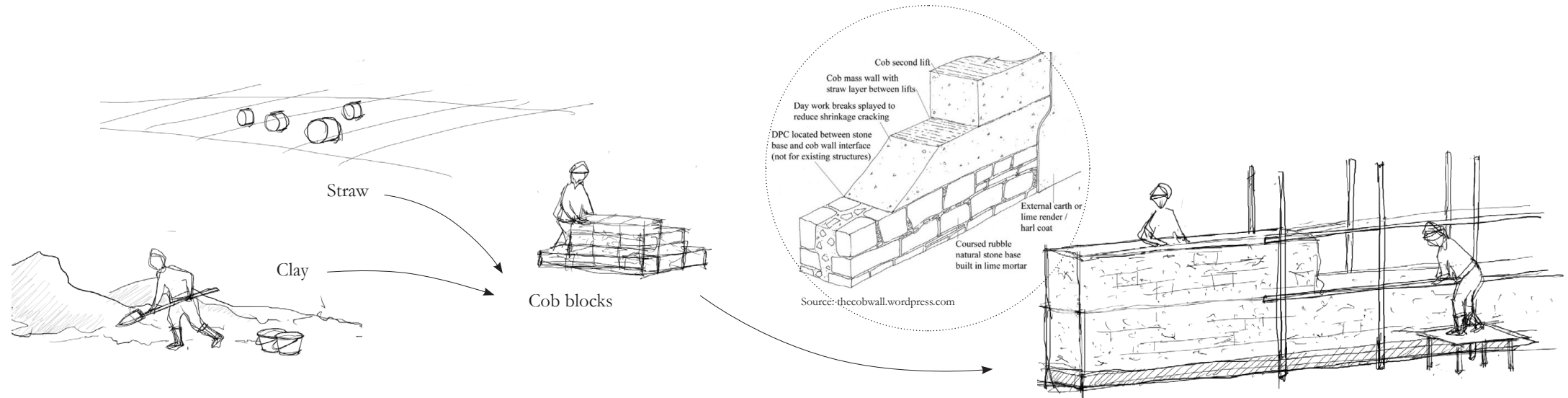
Viewing platform

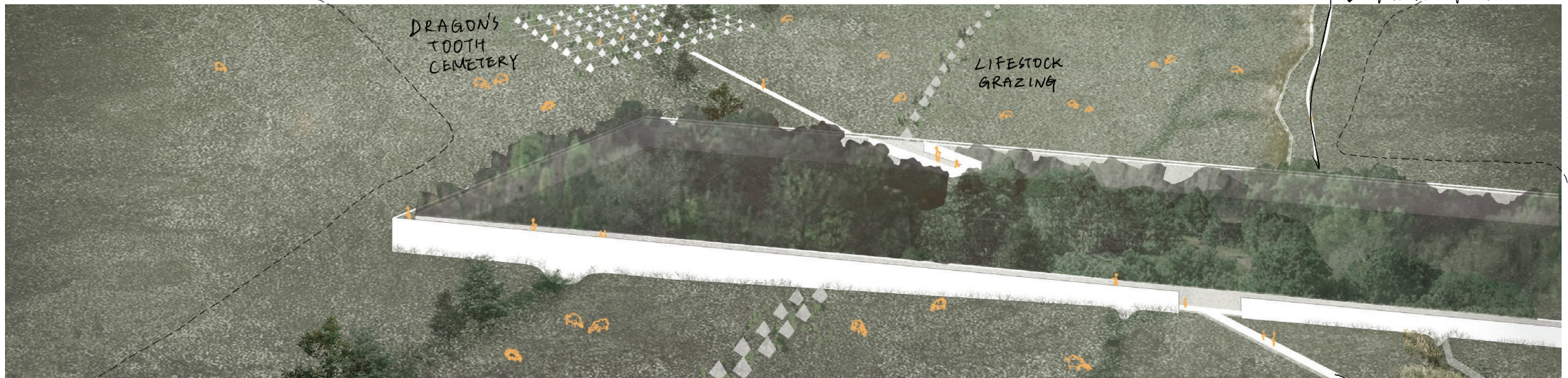
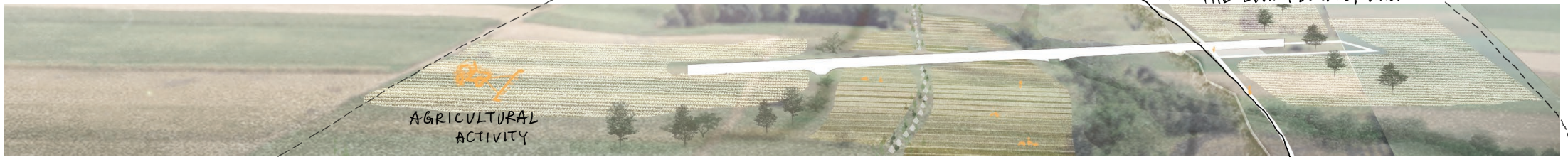




Made in Earth

Cob material







0~5 Year



5~10 Year



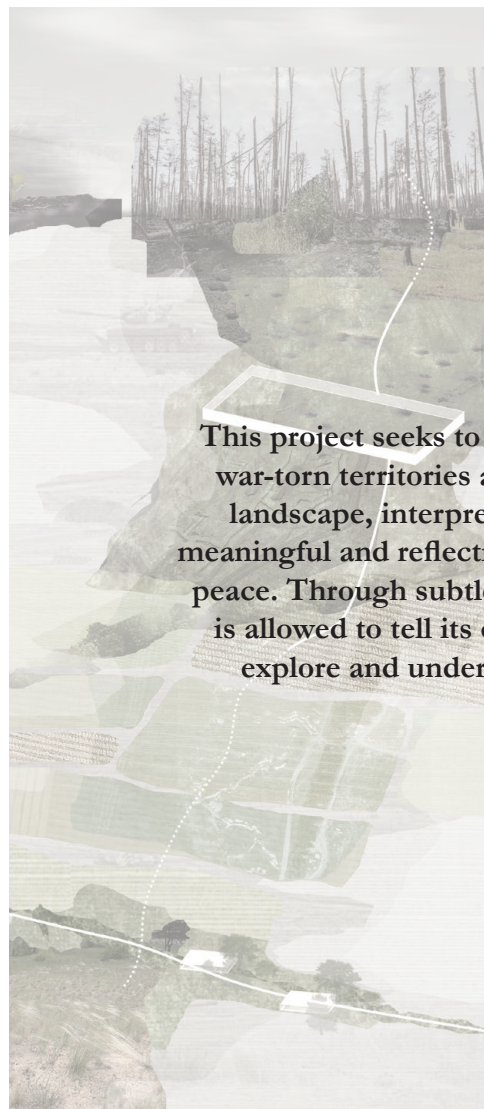
10~30 Year



30~50 Year



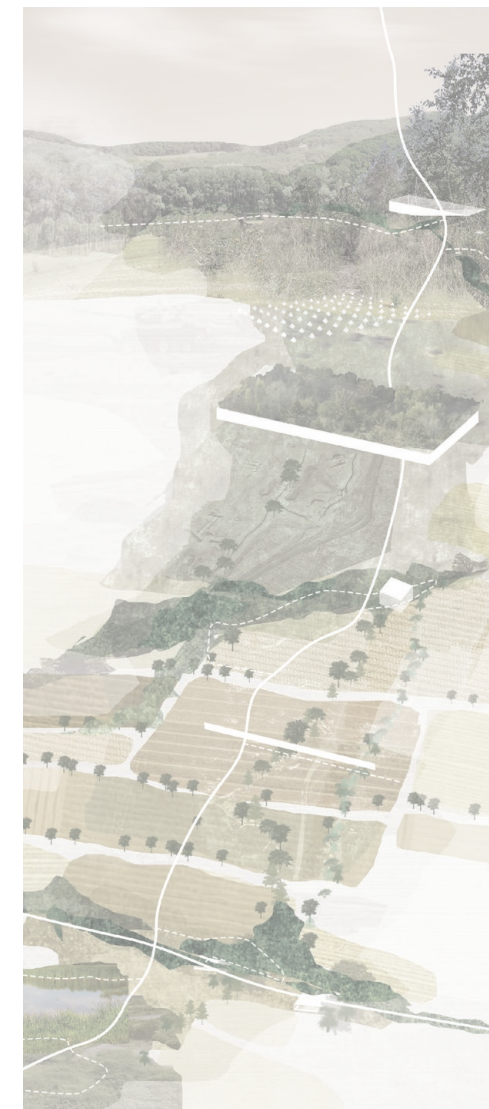
0~5 Year



5~10 Year



10~30 Year



30~50 Year

This project seeks to explore the reimagining of war-torn territories and the concept of a neutral landscape, interpreting battlefields to create a meaningful and reflective space for remembrance and peace. Through subtle interventions, the landscape is allowed to tell its own story, inviting people to explore and understand it at their own pace.

THANKS FOR YOUR LISTENING

／ Aiming to achieve more than just restoration

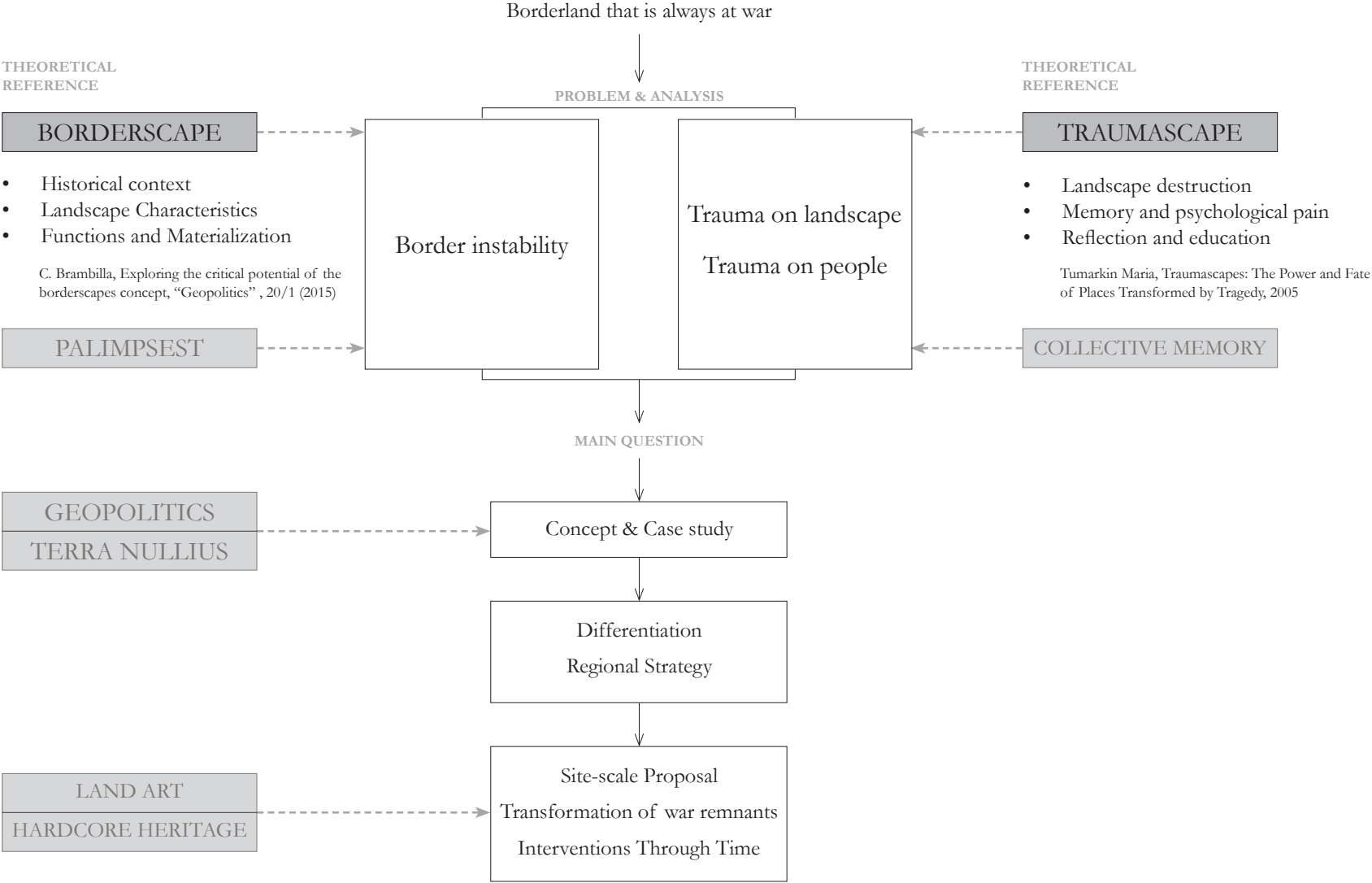
The intervention of landscape architects
is beyond mere restoring damaged land:
Fostering of reflection and hope.

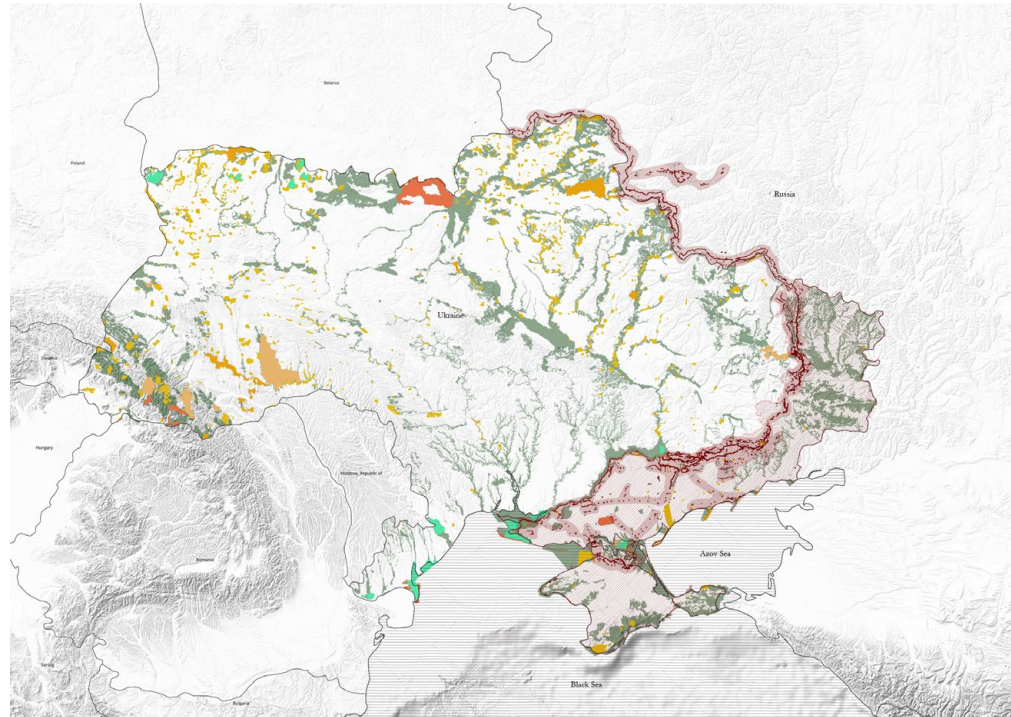
／ "Read" borderland through the lens of Palimpsest

The so-called "scars" from the war
should be **considered within the
context of the border's characteristics
that already exist**, rather than simply
focusing on preservation or removal.

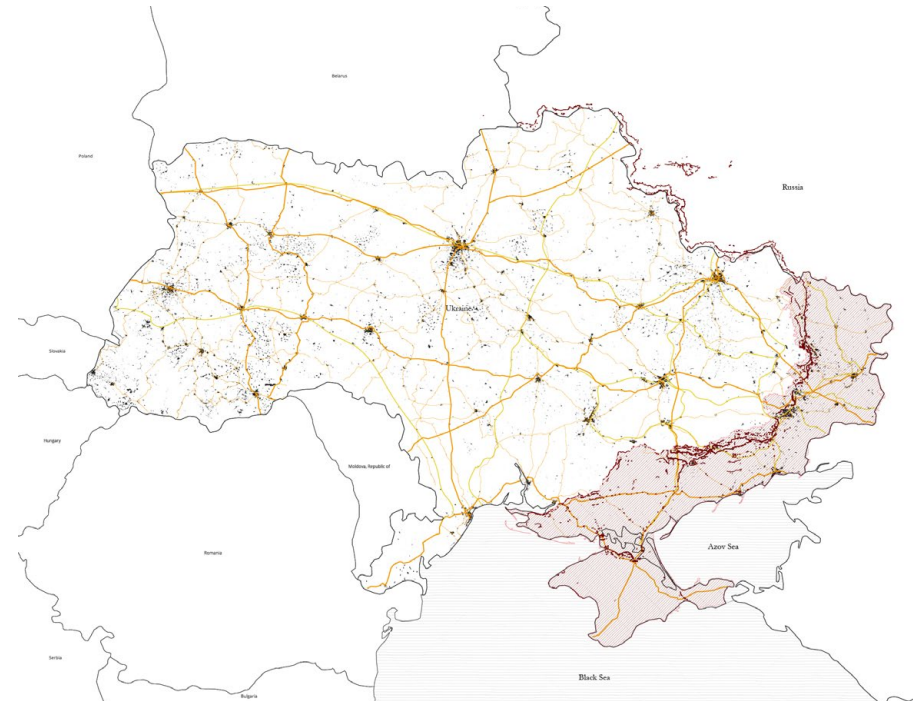
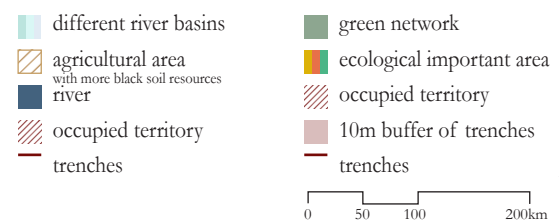


"Stories of this border area"
complemented by a stable and peaceful atmosphere

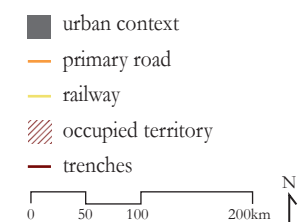


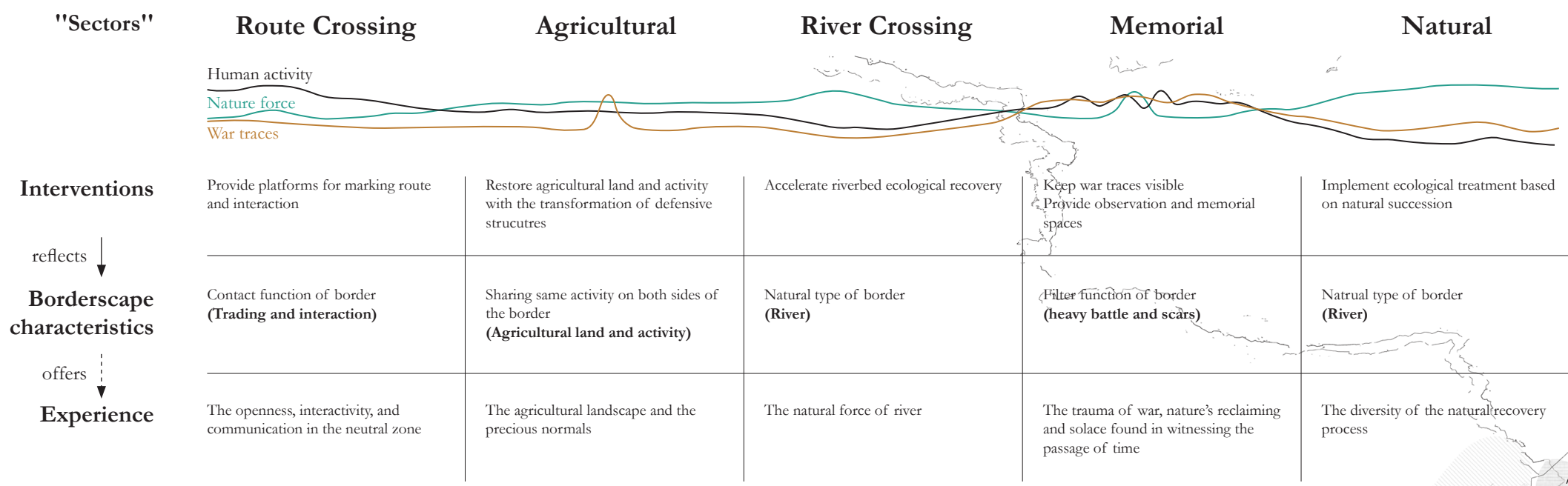


Ecological and hydrological network



Urban context and Infrastructural network





"Nodes"

