

COUNTRYSIDE DILLEMAS

The Renovation and Preservation of Rural Heritage

Location : Wengding, CHINA

A.Y : 2022



WENG DING : A VILLAGE



[What is the Village Wengding made of]



[LOCATION]

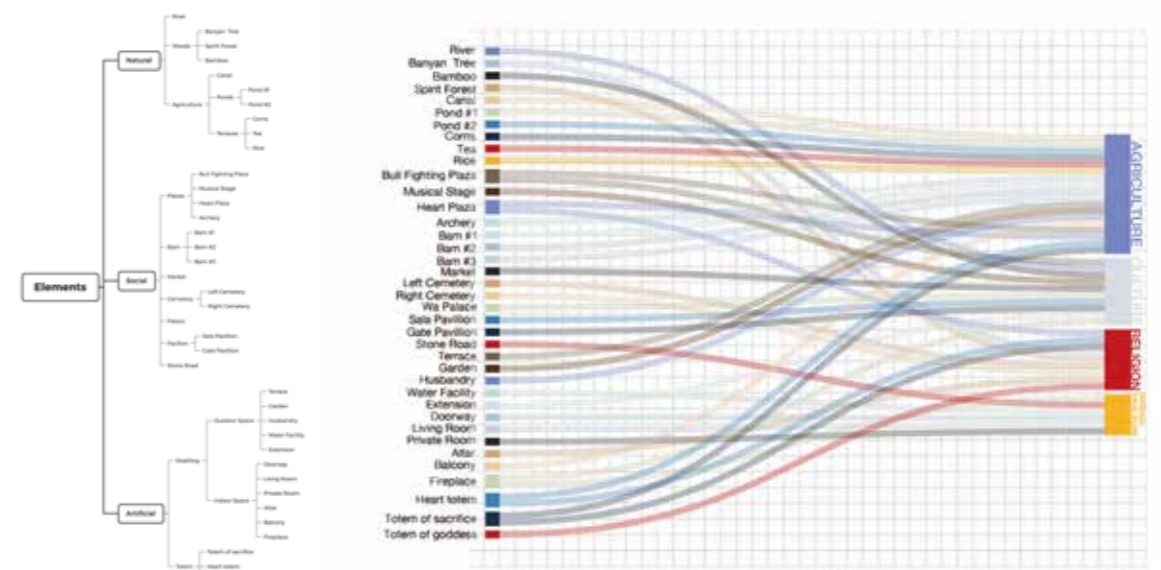
Wengding, Yunnan,
CHINA

Wengding Village, which is where the National Geographic Magazine calls “the last tribe in China”, had kept its primitive way of life with the “slash-and-burn” farming method until liberation. It is said that Wengding preserves the most intact architecture style and traditional customs of primitive Va society.



[ELEMENTS]

3 ELEMENTS
Natural, Social & Artificial



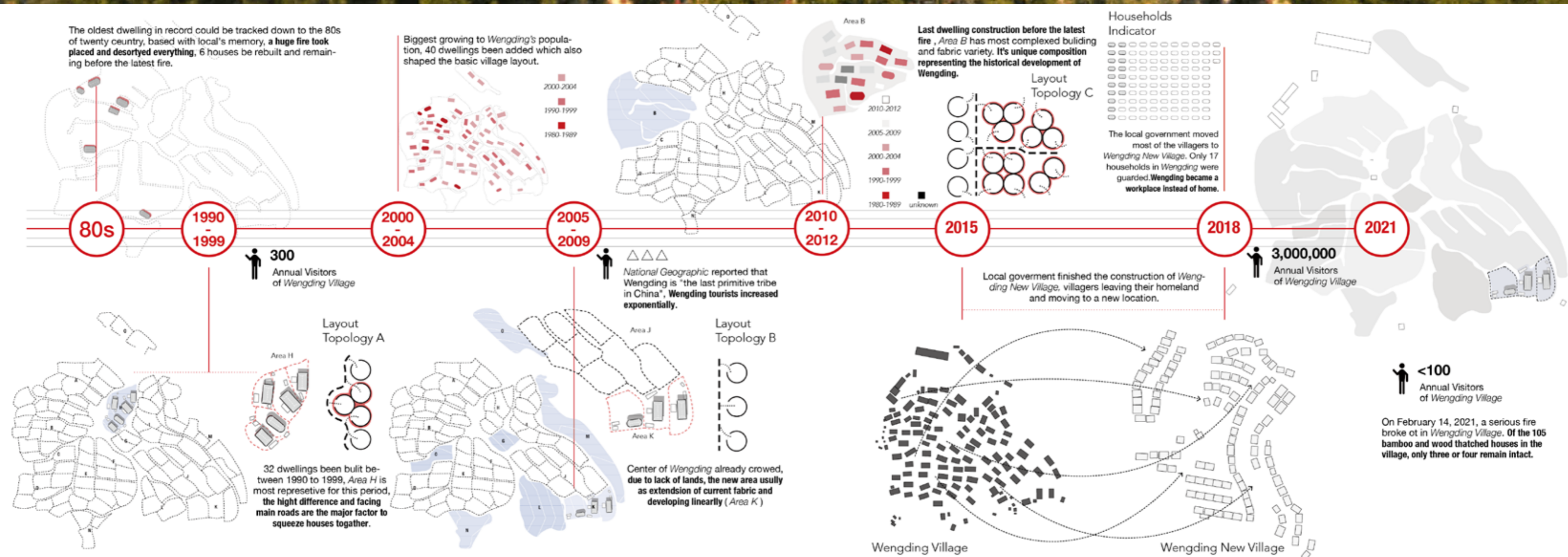
[CLASSIFICATION]

Agriculture
Culture
Religion
Infrastructure



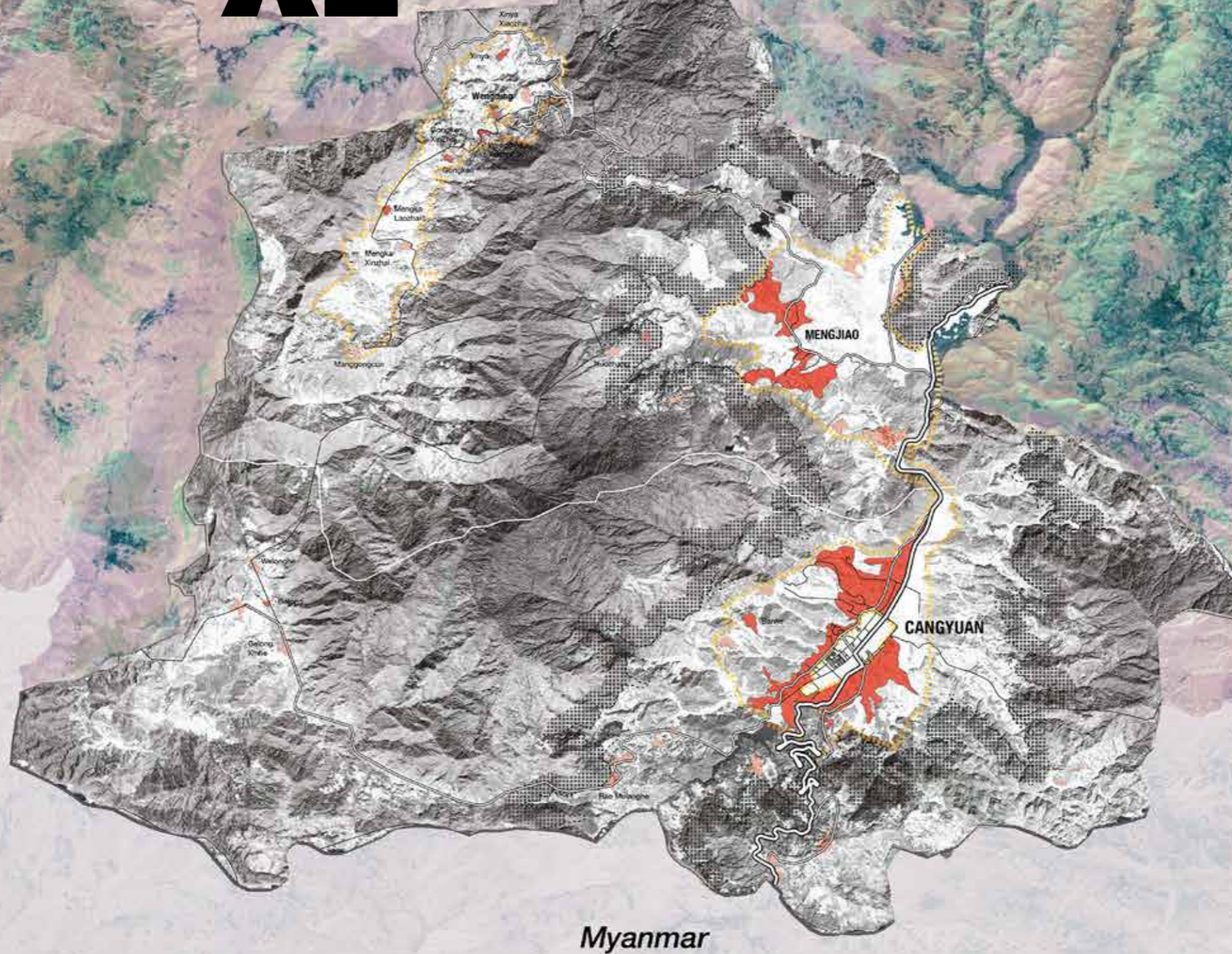
WENGDING : A History

[A Constant Trial to Self-destruction and Self-Restoration]



Beyond the Region:
Location, Hierarchy
and Relationships

XL



XXL

Water system

Forest

Shurb

Grass

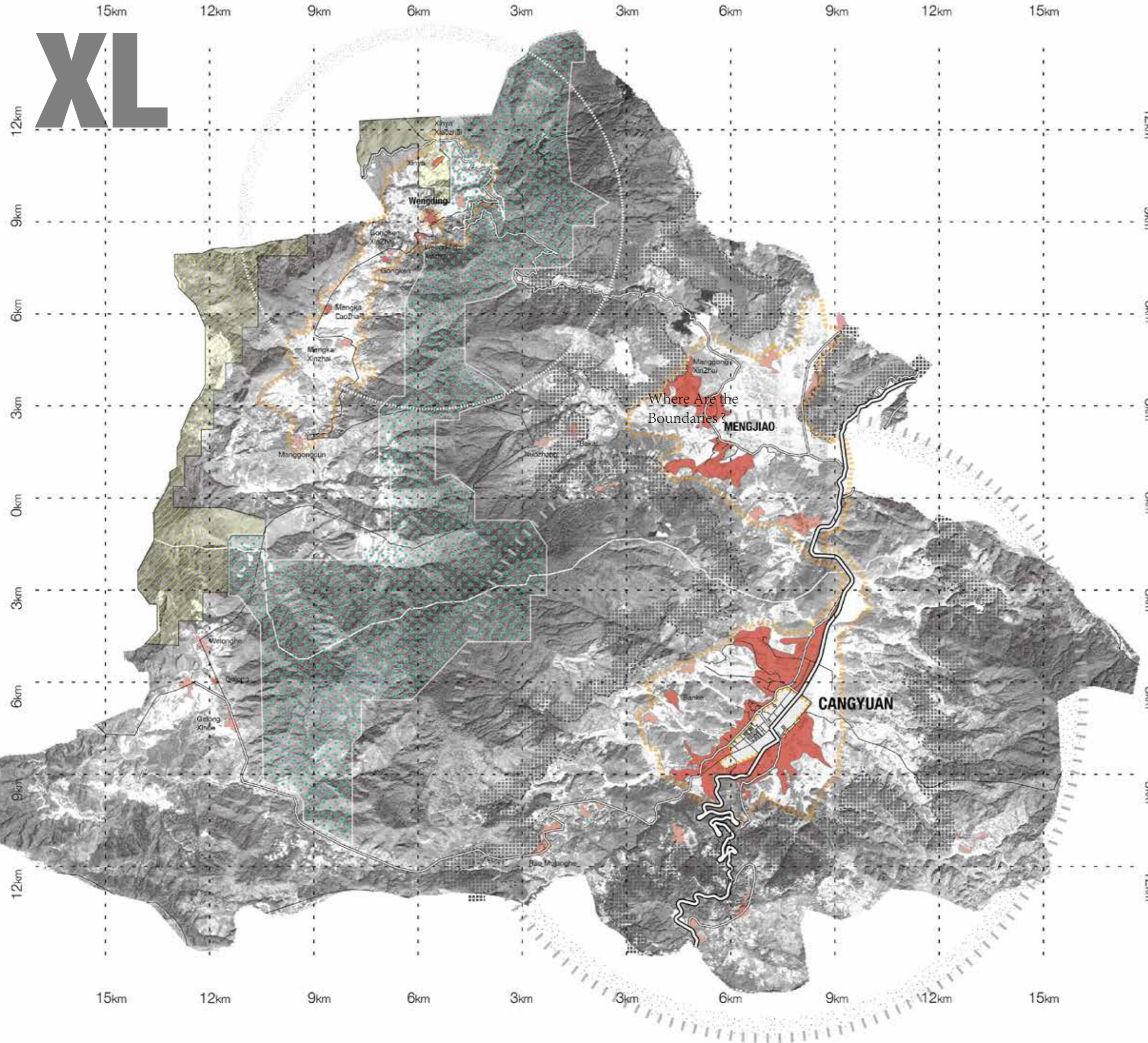
Farmland

City

[Wengding: A XL MAP]

Beyond the Region:
Location, Hierarchy and Relationships

Where Are the Boundaries ?



XL

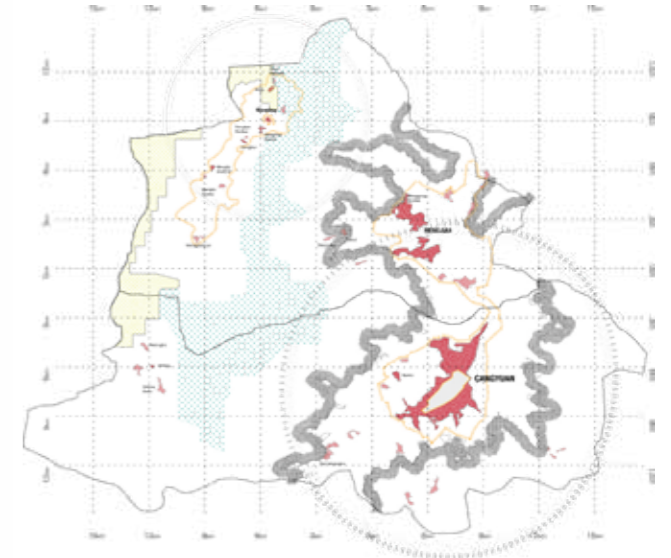






Fig.1 Boundaries Illustration

[LEGEND]

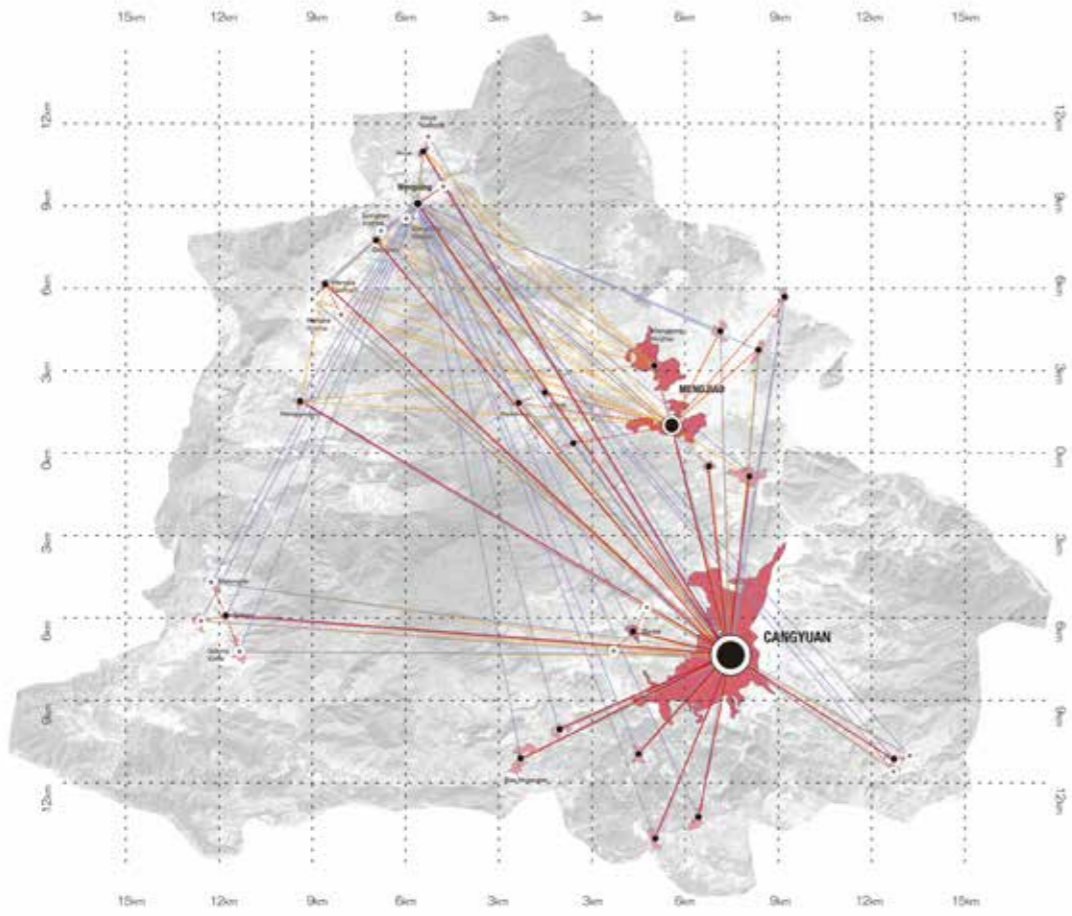
-  Urban
-  Settlements
-  Settlement Property
-  Mountain Range
-  Ecological Corridor
-  Nature Reserve

[Wengding: A XL MAP]

Beyond the Region: Location, Hierarchy and Relationships

[1]
[Hierarchy]

*Wengding:
A XL MAP*



[2]
[Relationships]

*Wengding:
A XL MAP*

[LEGEND]

- City
- Suburb Town
- Village
- New Settlement
- Political Flow
- Economic Flow
- Cultural Flow

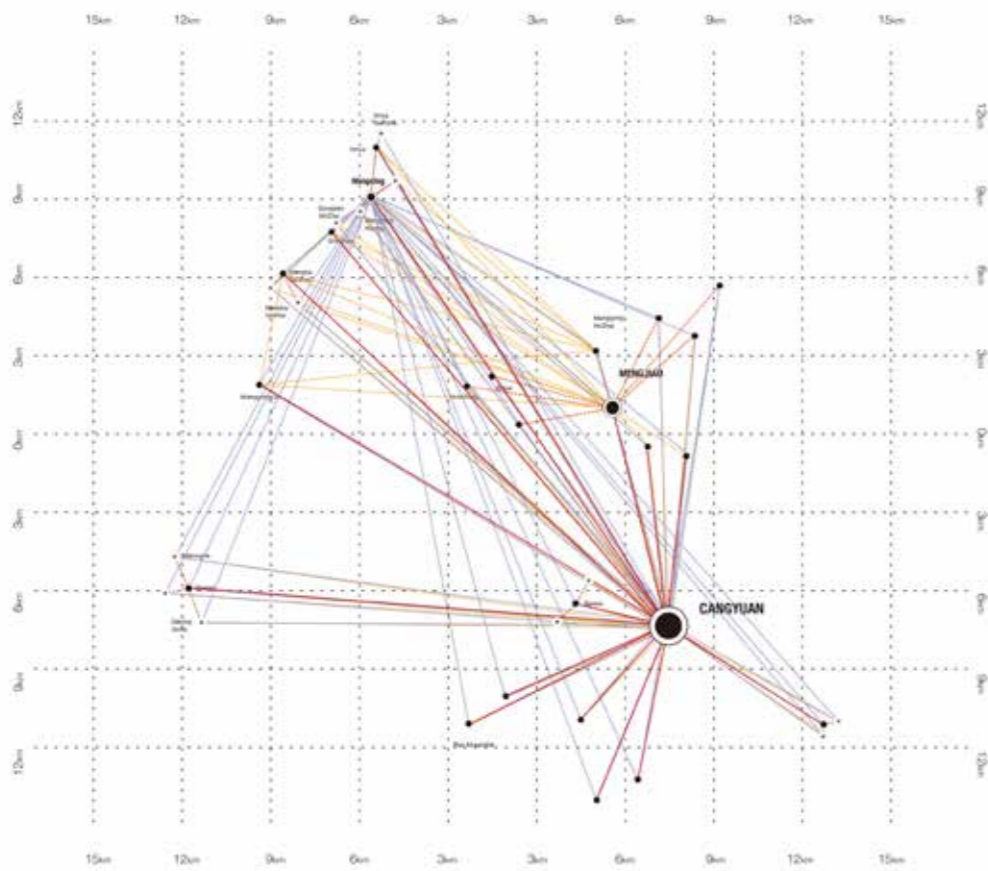


Fig.1
Political Hierarchy

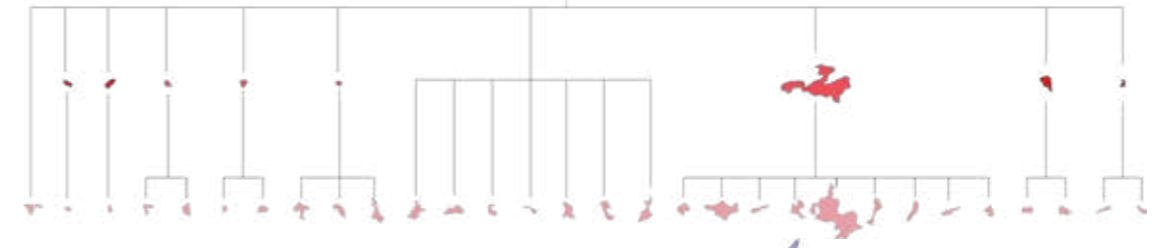
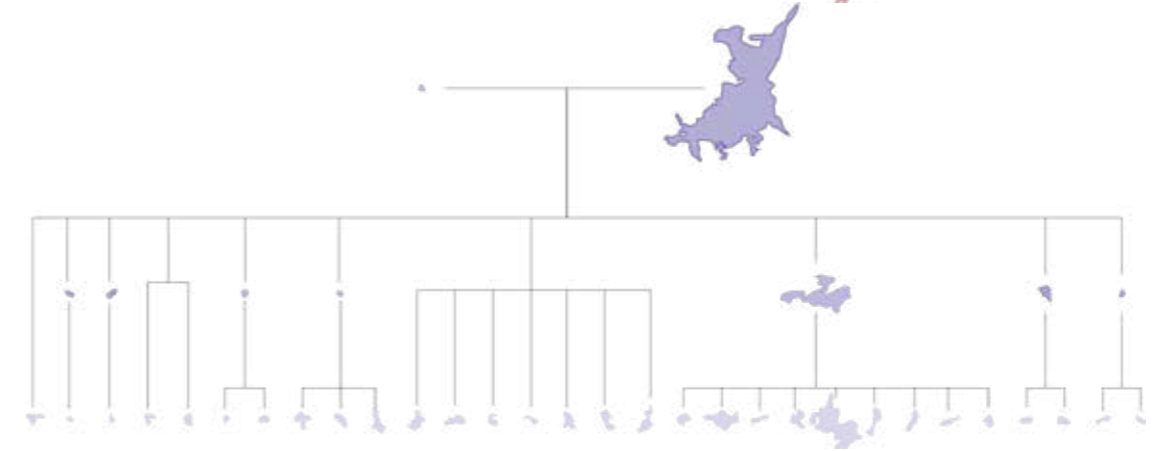


Fig.2
Cultural Hierarchy



[LEGEND]

- Wengding Village
- Cangyuan Municipality

Fig.3
Political Structure: [One-Point]

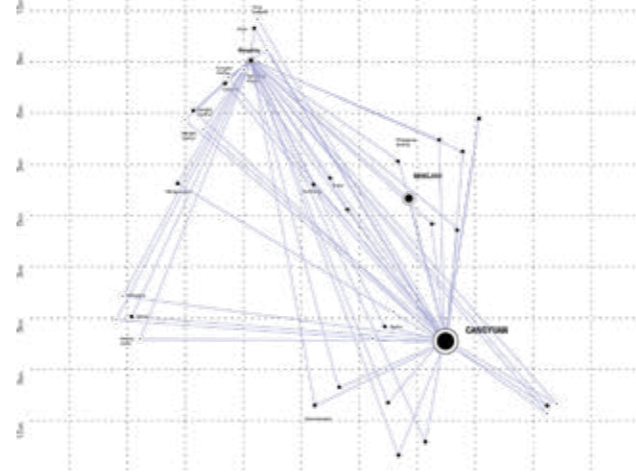
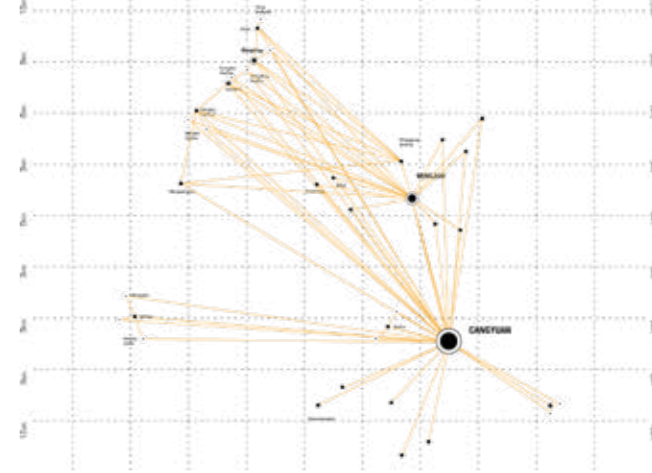


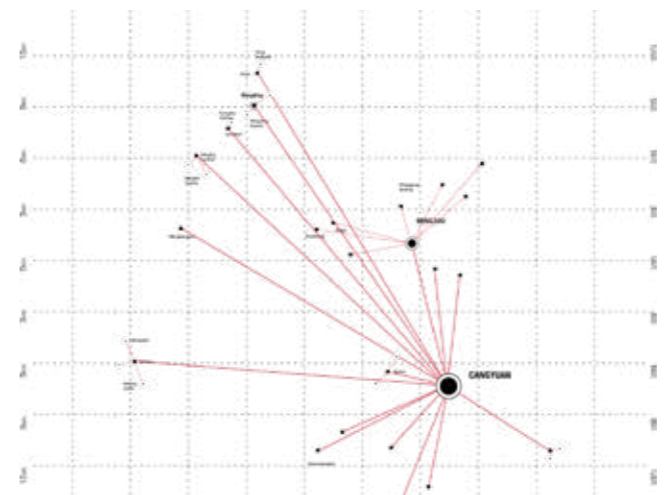
Fig.4
Cultural Structure: [Two-Point]



[LEGEND]

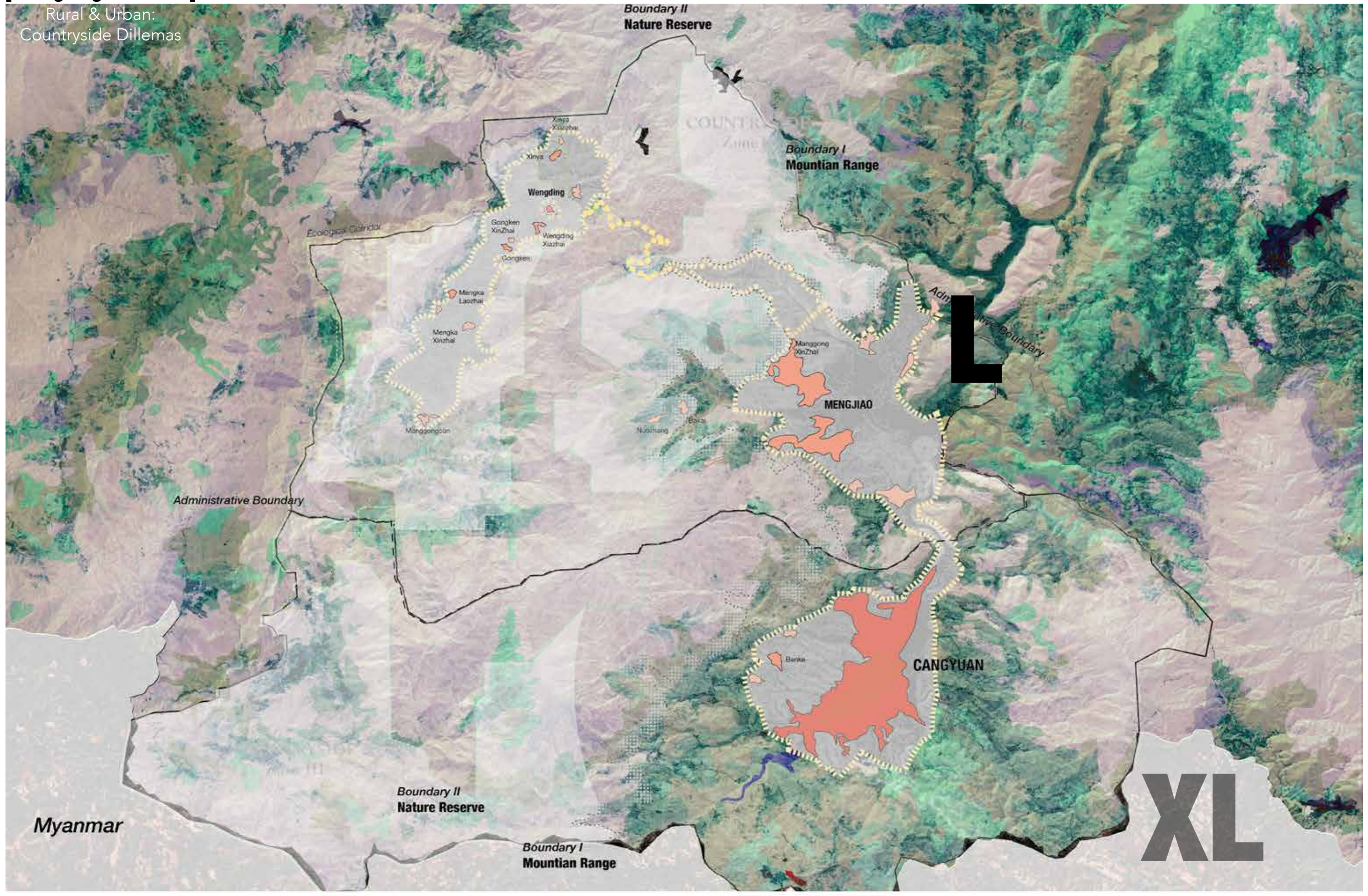
- City
- Suburb Town
- Village
- New Settlement
- Political Flow
- Economic Flow
- Cultural Flow

Fig.5
Economic Structure: [Linear Passage]



[Wengding: A L MAP]

Rural & Urban:
Countryside Dilemmas



[Wengding: A L MAP]

Rural & Urban:
Countryside Dilemmas

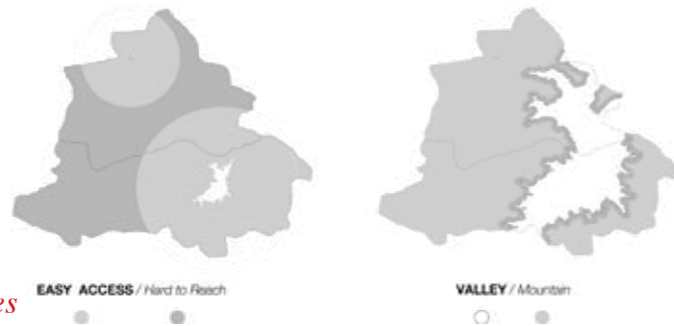


Where is the Countryside? Is Countryside just Farmlands ?



[1] [Zoning]

5 Zones
Based on
Various Principles



[2] [Boundaries Mix]

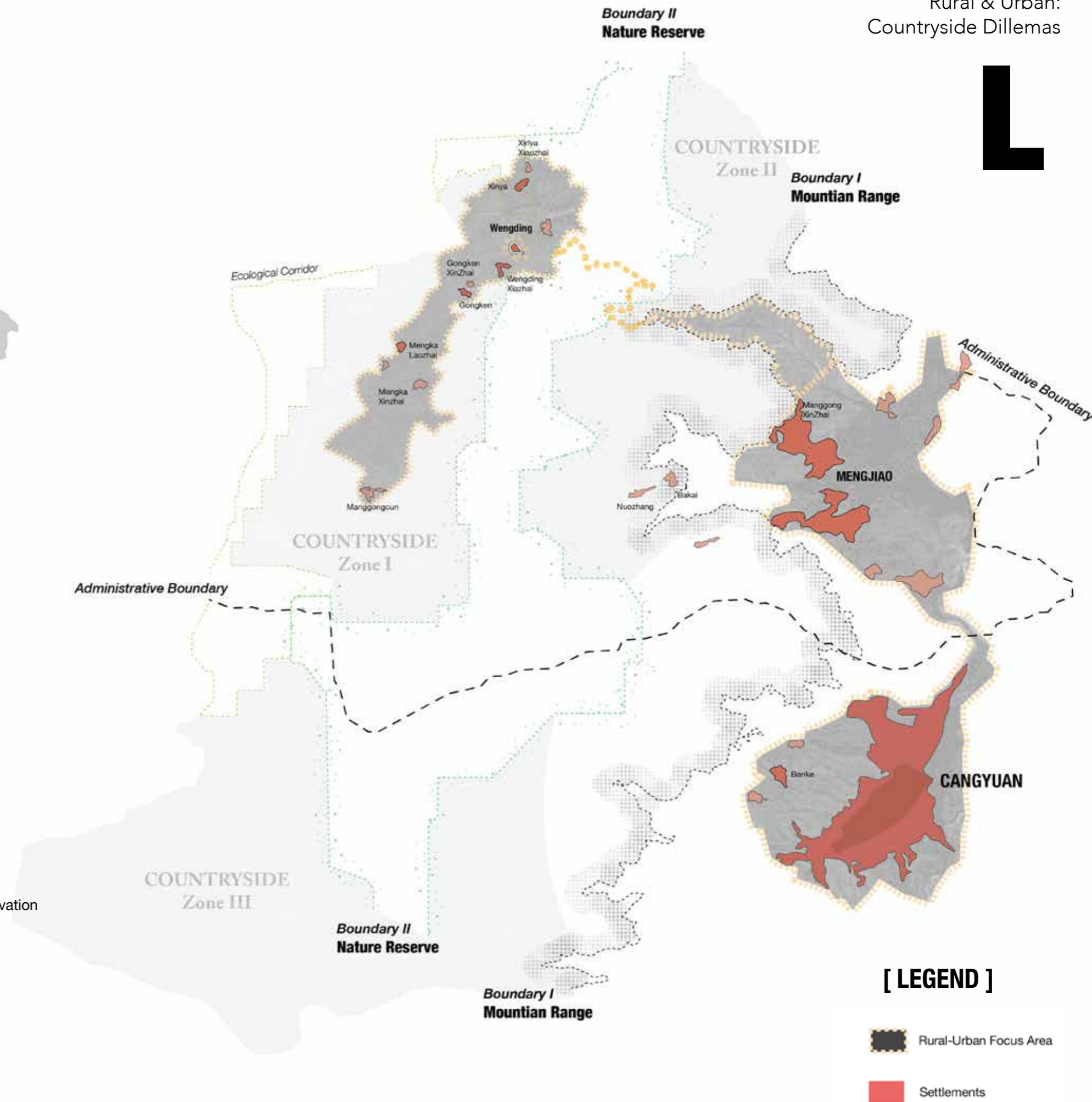
Mixing Different Zones
from Step_1



[3] [Calculation]

Defining the
Countryside Zones

Formula:
COUNTRYSIDE =
 Nonurban - (Easy Access + Urban Development) - Preservation



[LEGEND]

- Rural-Urban Focus Area
- Settlements



[Wengding: A L MAP]

Rural & Urban:
Countryside Dilemmas

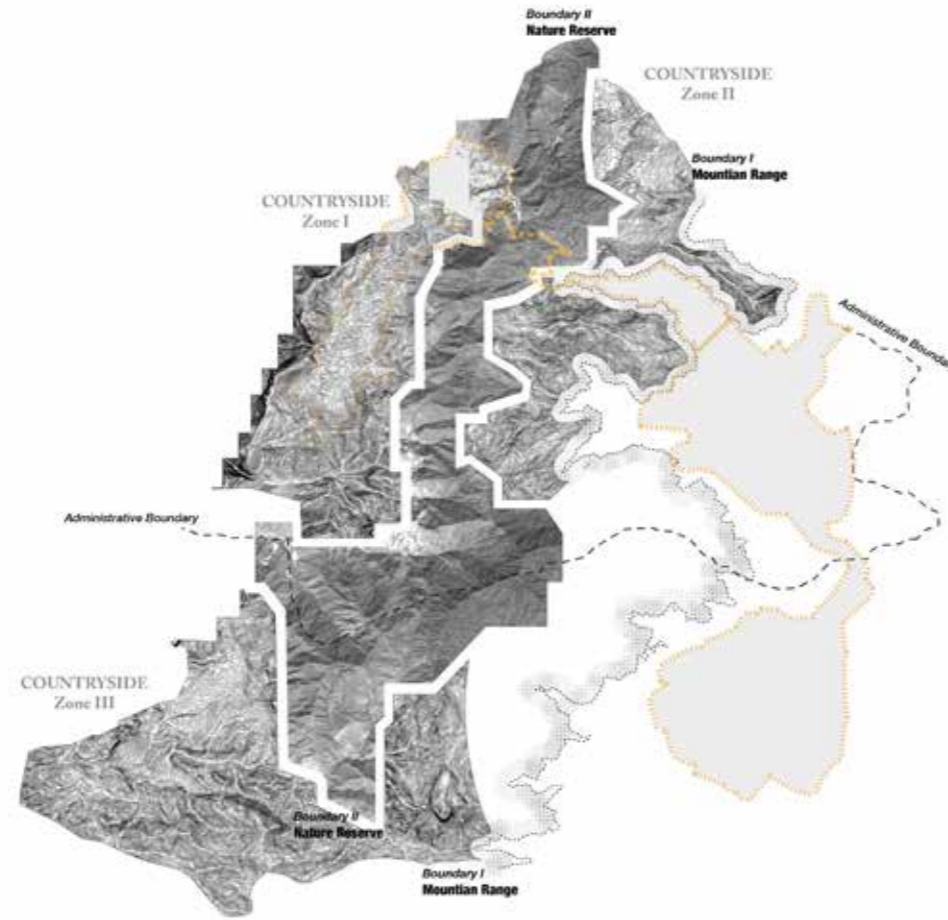
WHAT IS THE TERRAIN LIKE?



Fig.1 Rural-Urban Special Focus Area

[LEGEND]

- Rural-Urban Focus Area
- Mountains
- Valley



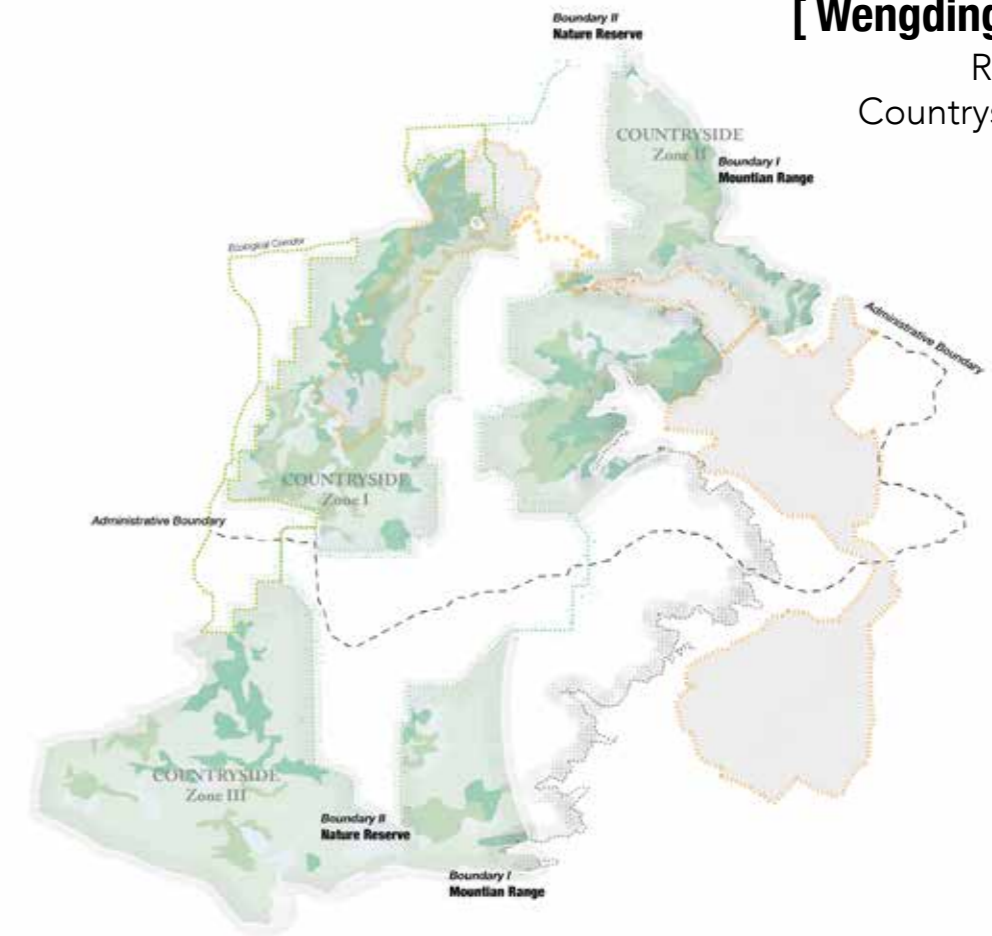
WHAT ABOUT THE VEGETATION?



Fig.1 Rural-Urban Special Focus Area

[LEGEND]

- Rural-Urban Focus Area
- Settlements
- Farmland (Rice Paddies)
- Farmland (Arid Lands)
- Forest
- Shrub
- Grass
- Orives

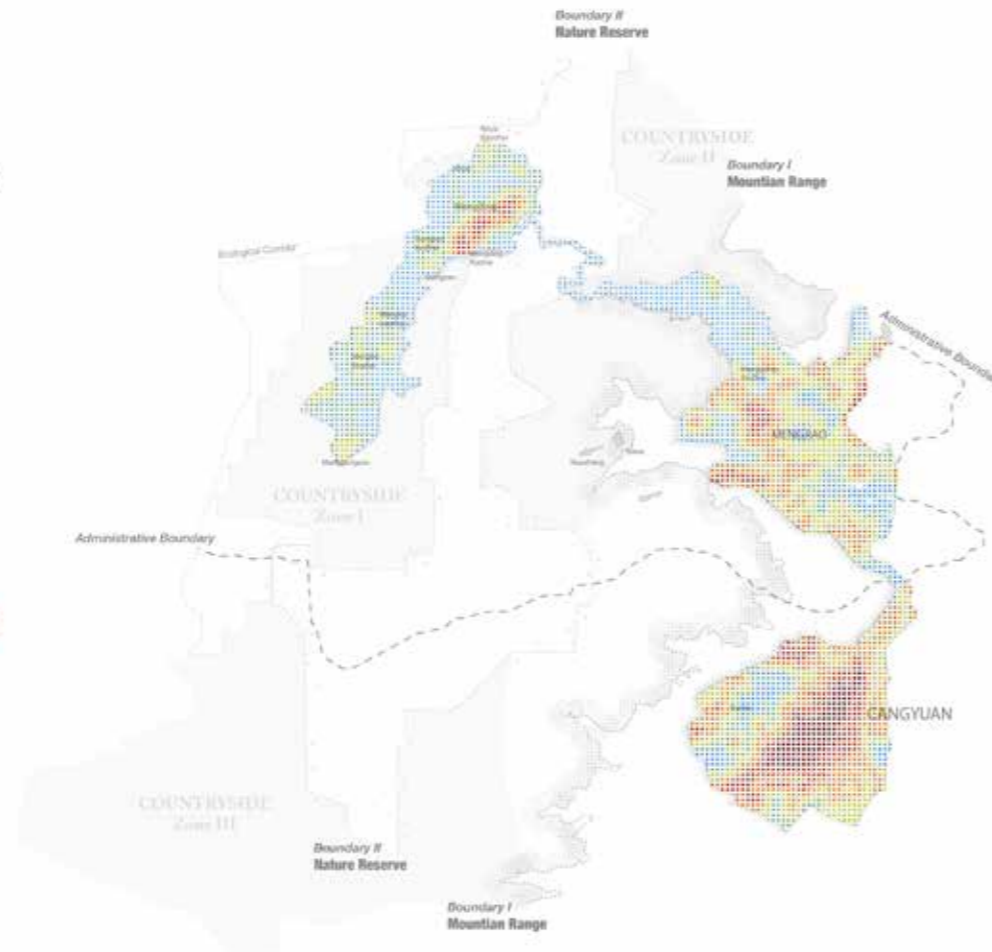


HOW IS WEALTH DISTRIBUTED ?



Fig.1 Rural-Urban Special Focus Area

[LEGEND]



WHERE DOES PEOPLE GO ?



Fig.1 Rural-Urban Special Focus Area

[LEGEND]

- 10 Population
- Leaving Wengding Migration Route
- Joining Wengding Migration Route



[Wengding: A L MAP]
Rural & Urban: Countryside Dilemmas



Fig.1 DILLEMA I : Fragmented Expanding

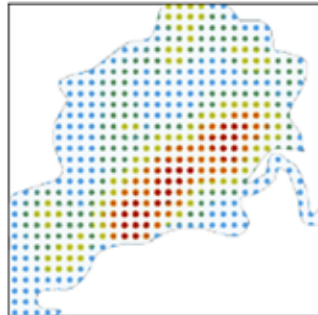


Fig.2 DILLEMA II : Countryside Disparity

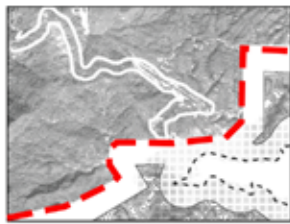


Fig.3 DILLEMA III : Weak Connection



Fig.4 DILLEMA IV :
Weak Developed in Mountain Area

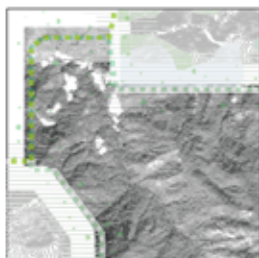


Fig.5 DILLEMA V :
Nature Reserve
Blocking Countryside Linkages

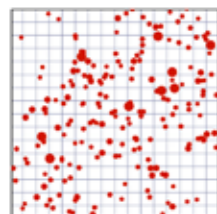
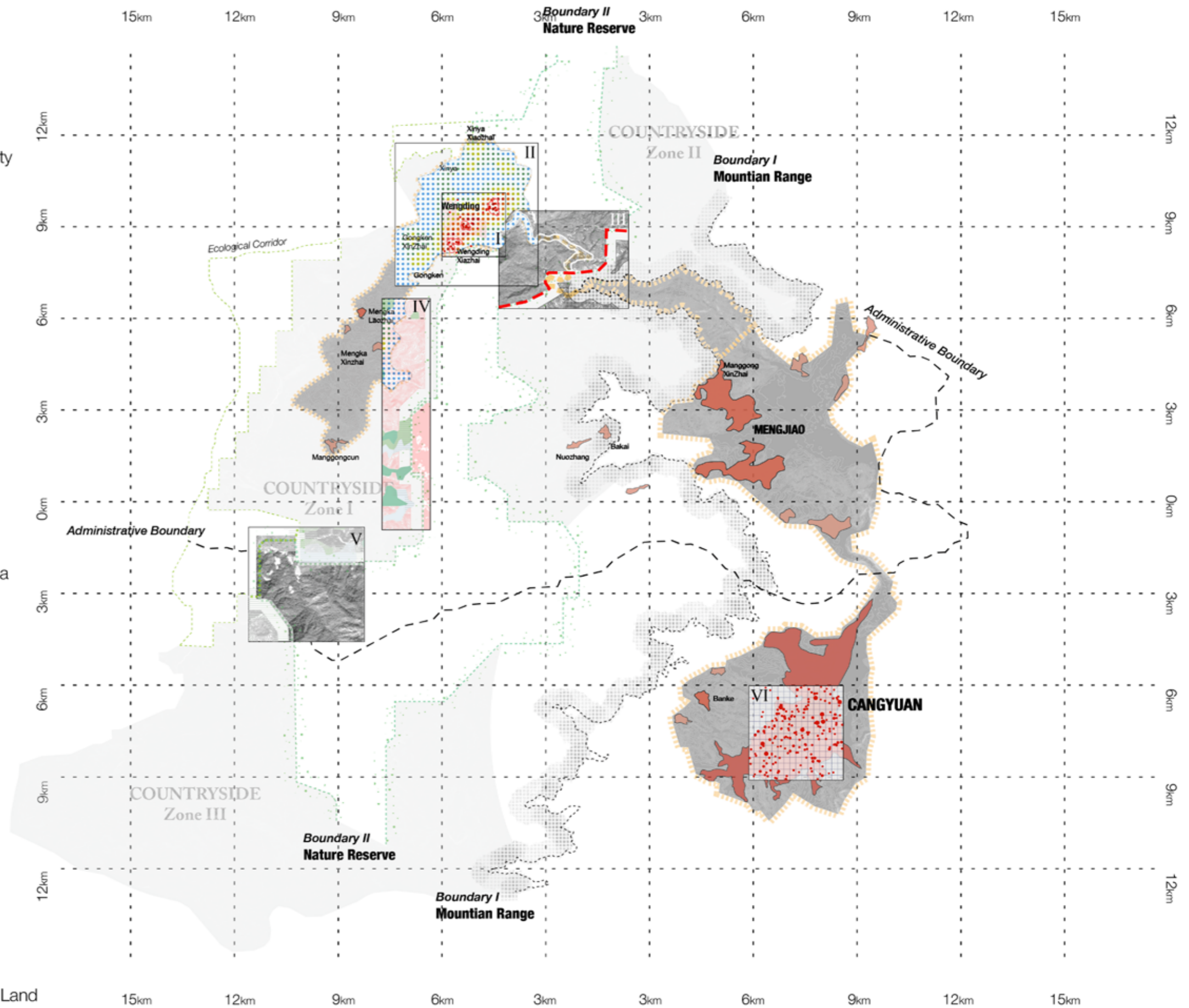
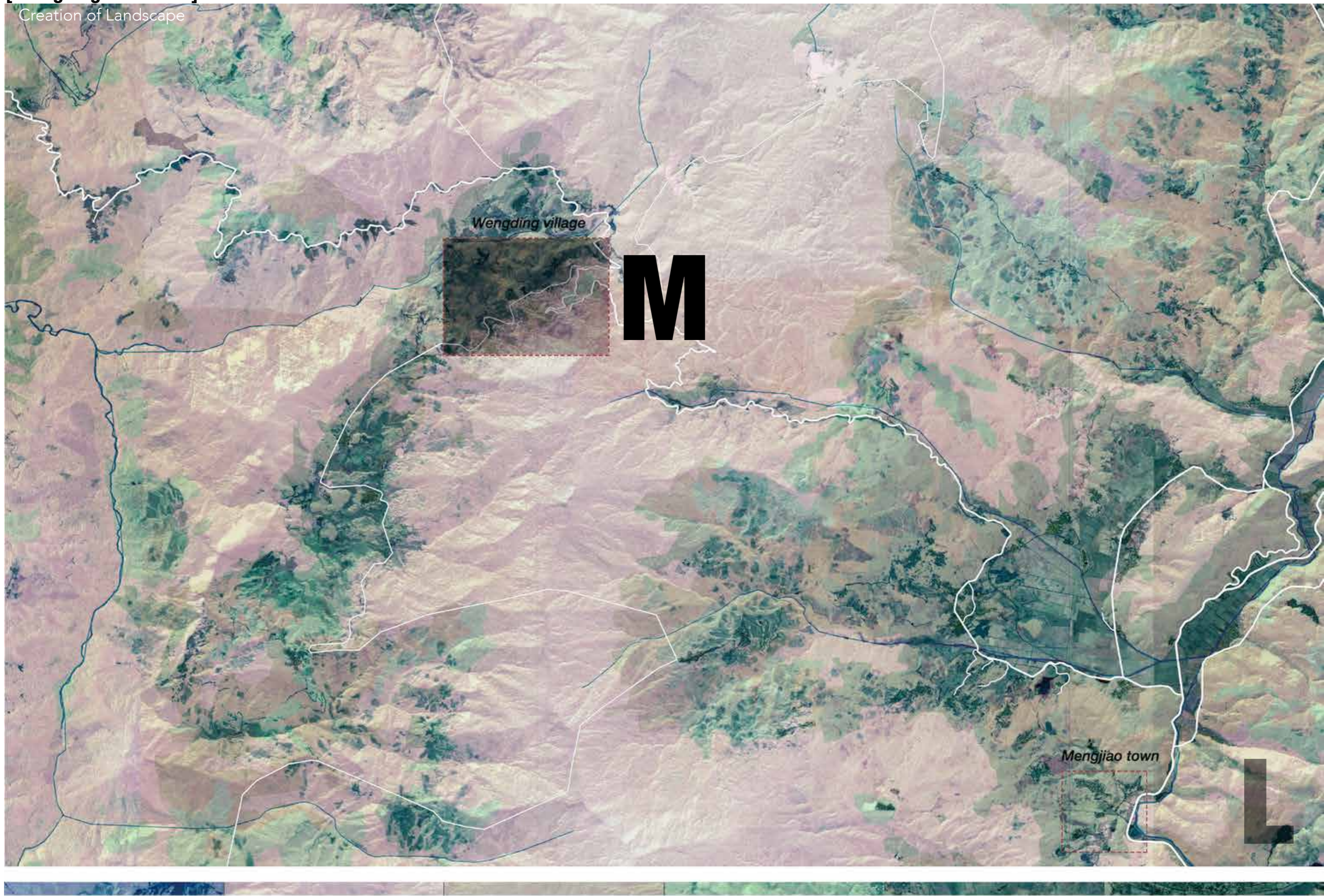


Fig.6 DILLEMA VI :
High-density Urbanization
Cause the Shortage of Food and Land



Creation of Landscape



Water system

Forest

Shurb

Grass

Farmland

City

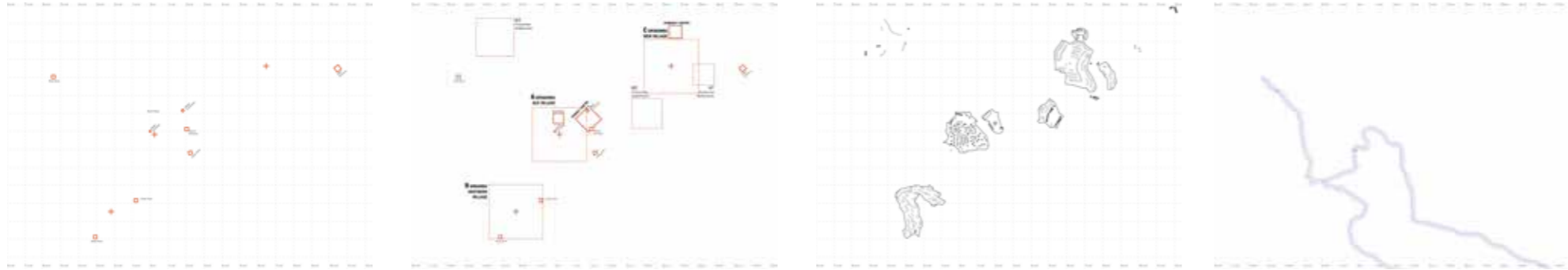


[Landscape FRAMEWORKING]

isolation, abstraction, deletion of elements through tangible reading

Line 1

[isolation]



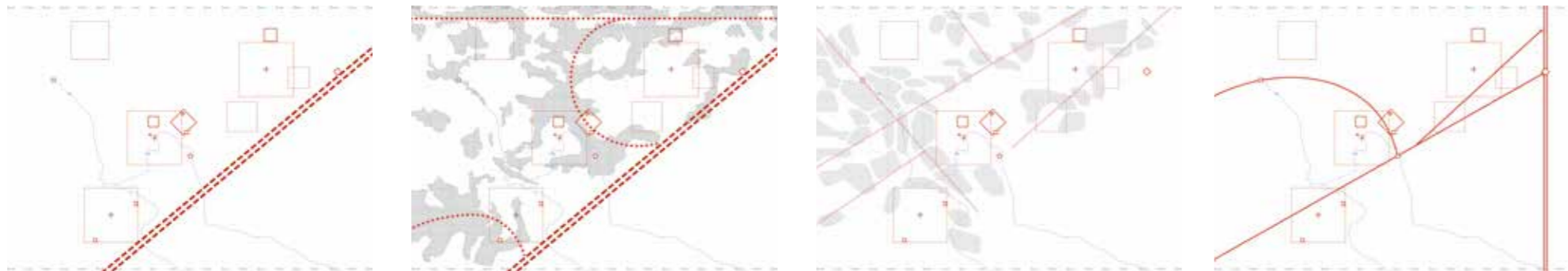
Line 2

[isolation]



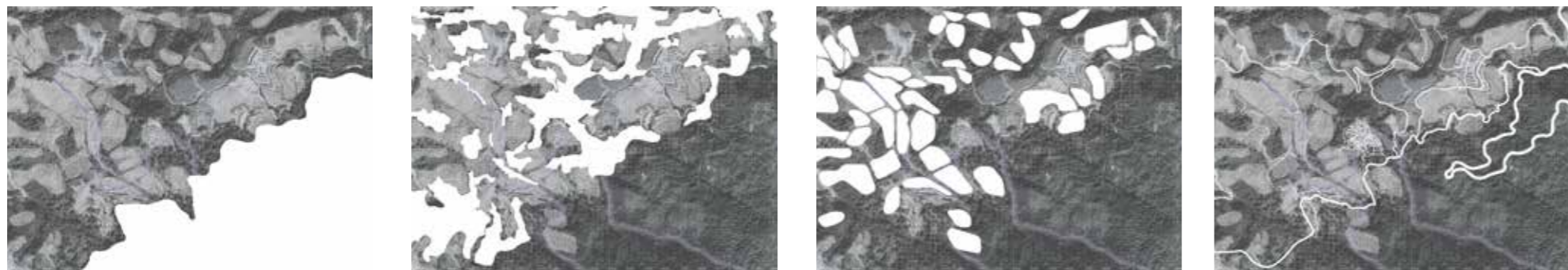
Line 3

[abstraction]



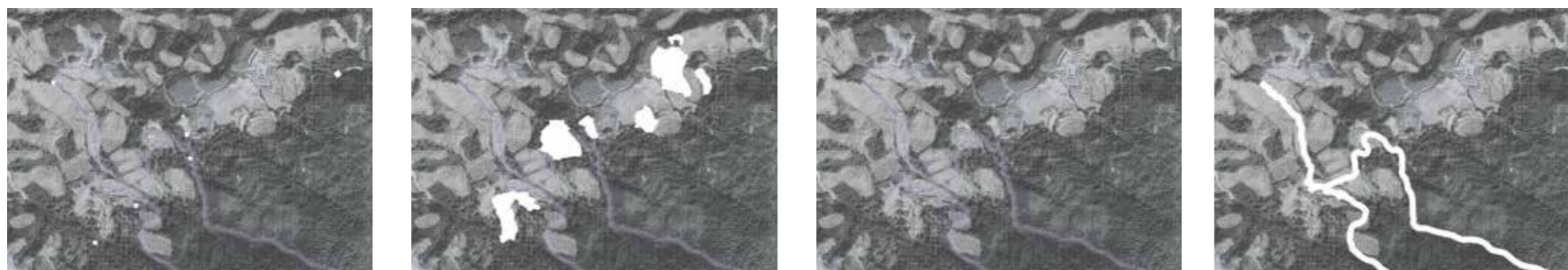
Line 4

[deletion]

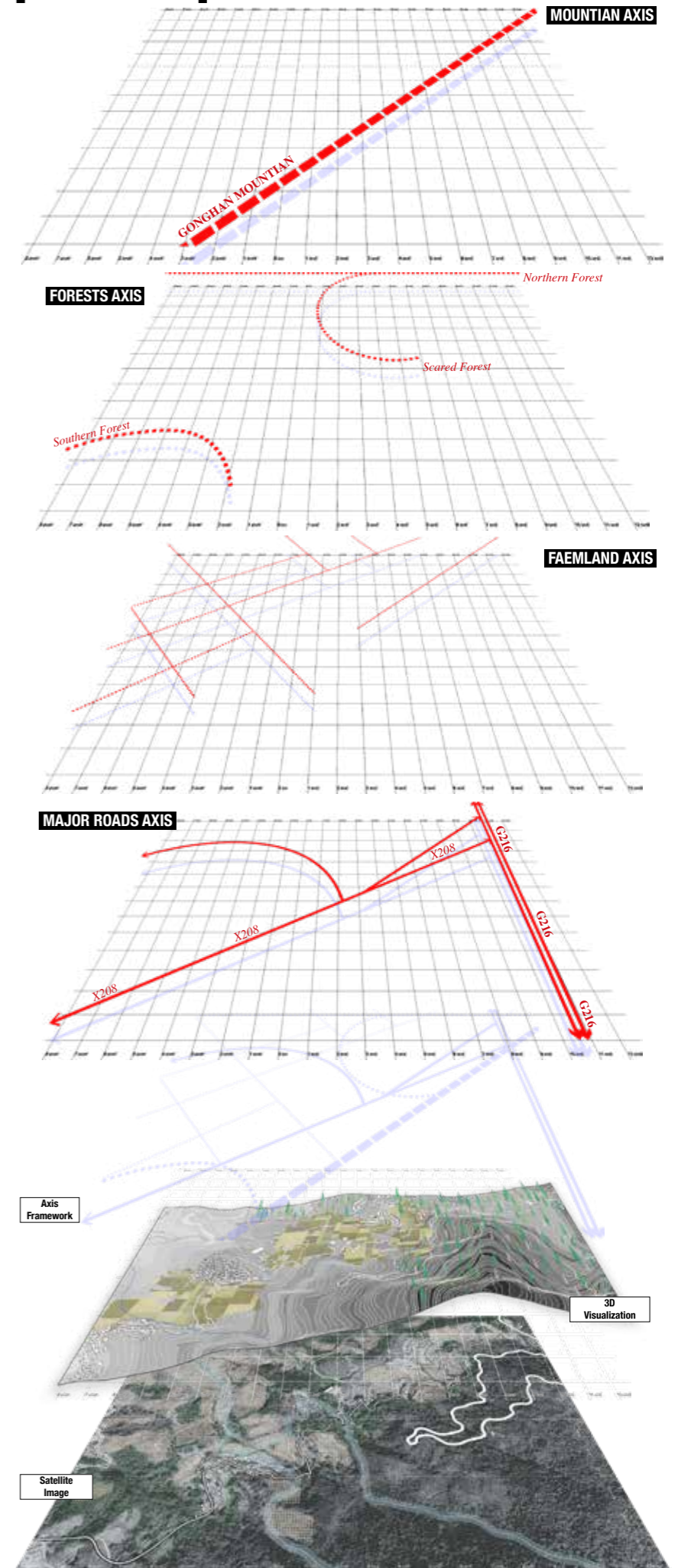


Line 5

[deletion]



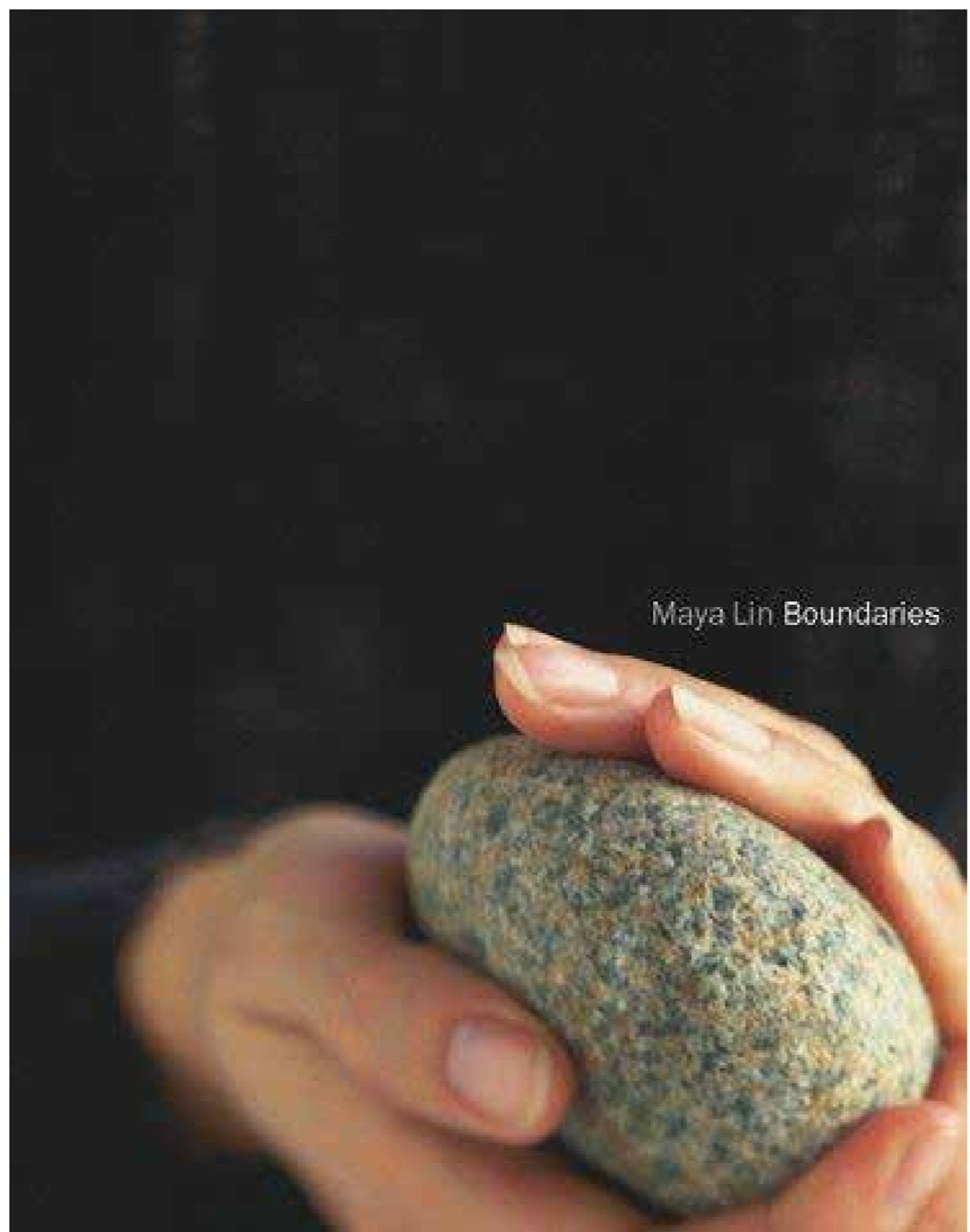
[LAND AXIS]



1	2	3	4	1. Public Space Isolation	2. Settlements Isolation	3. Building Fabric Isolation	4. River Isolation
5	6	7	8	5. Mountain Isolation	6. Forests Isolation	7. Farmland Isolation	8. Roads Isolation
9	10	11	12	9. Mountain Abstraction	10. Forests Abstraction	11. Farmland Abstraction	12. Roads Abstraction
13	14	15	16	13. Public Space Deletion	14. Settlements Deletion	15. Building Fabric Deletion	16. River Deletion
17	18	19	20	17. Mountain Deletion	18. Forests Deletion	19. Farmland Deletion	20. Roads Deletion

[Boundaries GENERATING]

elemental intersection leads to the map of re-construction



Maya Lin Boundaries

[REFERANCE]

Boundaries

Maya Lin [US]

2000-10-05

publisher:Simon & Schuster (ISBN: 9780684834177)

[INTERSECTION]

B[1]= ∩
farmland forest

- farmland
- forest
- B1_farmland/forest boundaries

B[2.1]= ∩
peak peak

B[2.2]= ∩
B[2.1] river
 village

- river
- village
- B2.1_peaks boundaries
- B2.2_B2.1/village & river boundaries

B[3]= ∩
farmland river
 irrigation line

- river
- farmland
- irrigation line
- B3_water/farmland intersection

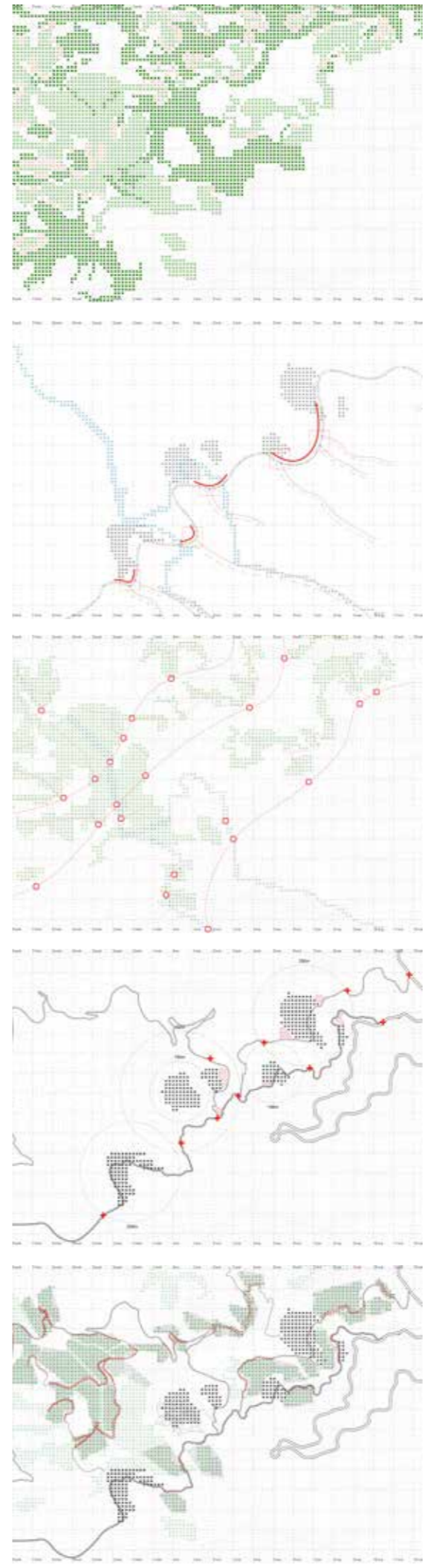
B[4.1]= ∩
road road

B[4.2]= ∩
road village

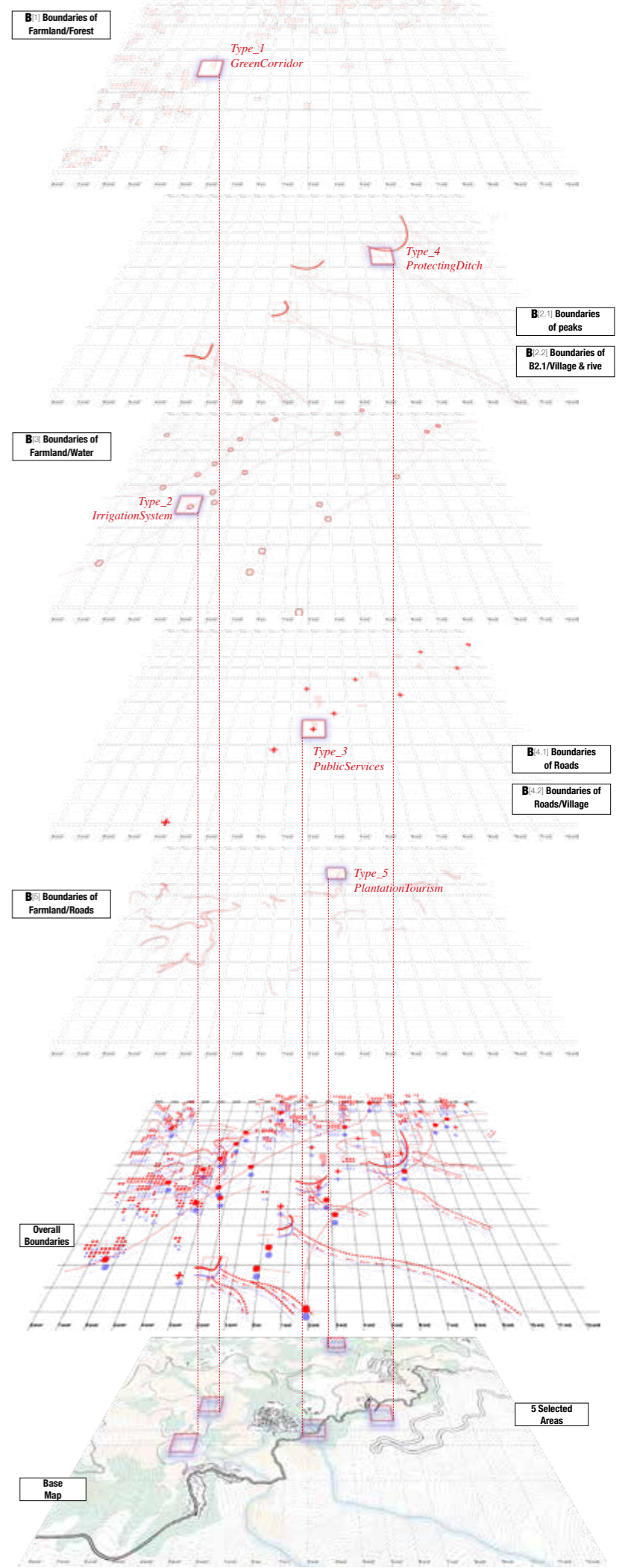
- road
- village
- B4.1_roads intersection
- B4.2_road/village boundaries

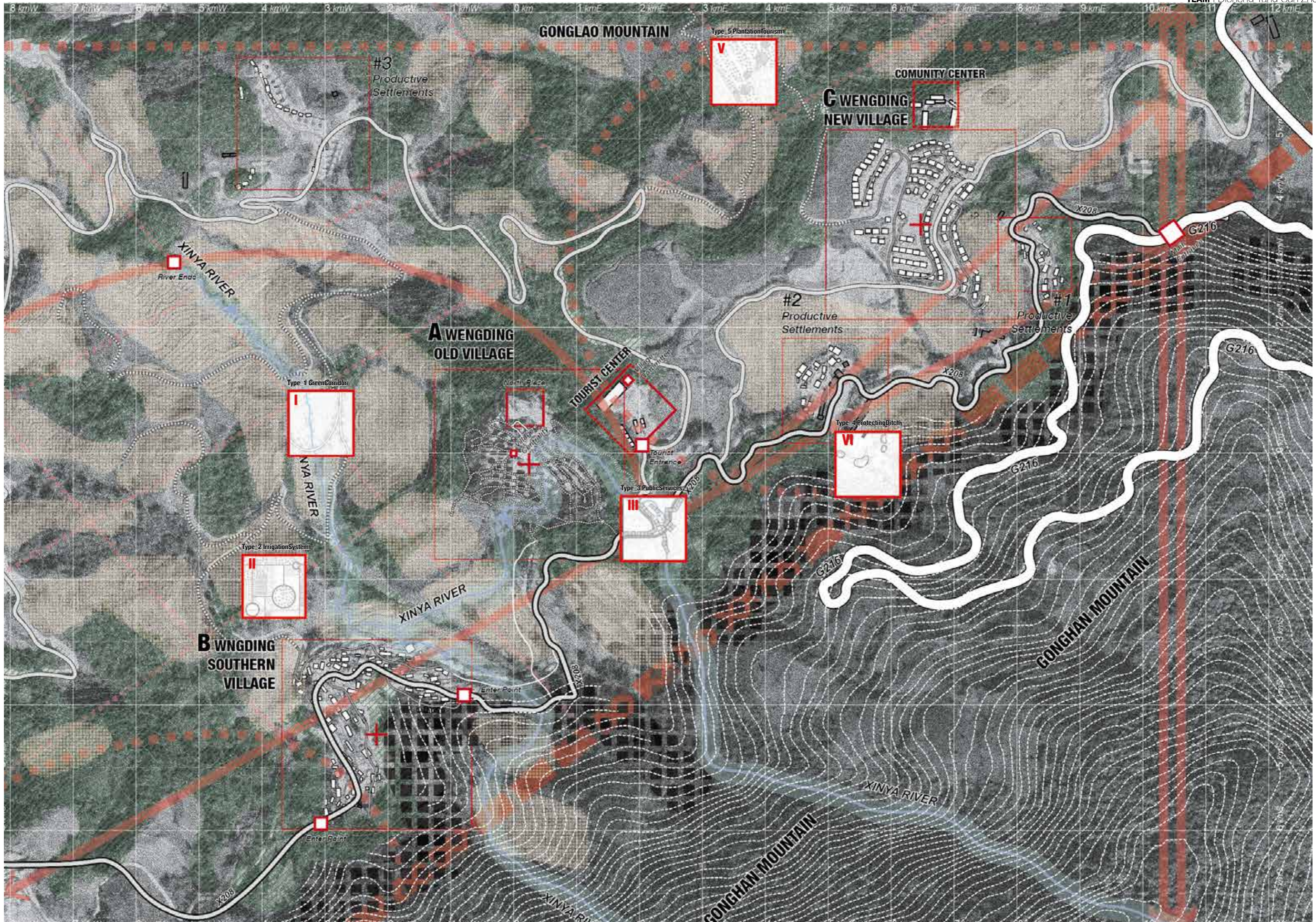
B[5]= ∩
farmland road

- road
- farmland near road
- farmland
- village
- B5_farmland/road boundaries



[BOUNDARIES]





[Boundaries REINVENTING]

isolation, abstraction, deletion of elements through tangible reading

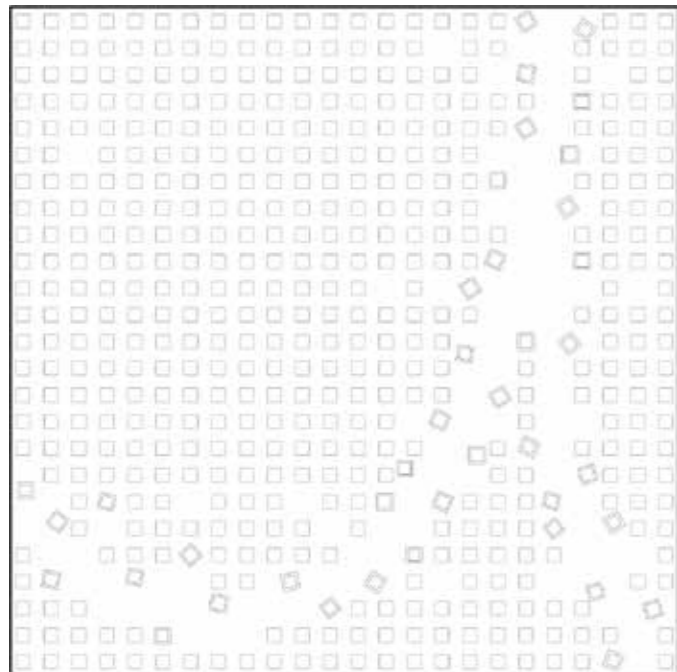


[BOUNDARY REINVENT CONCEPT]

Type_1 GreenCorridor

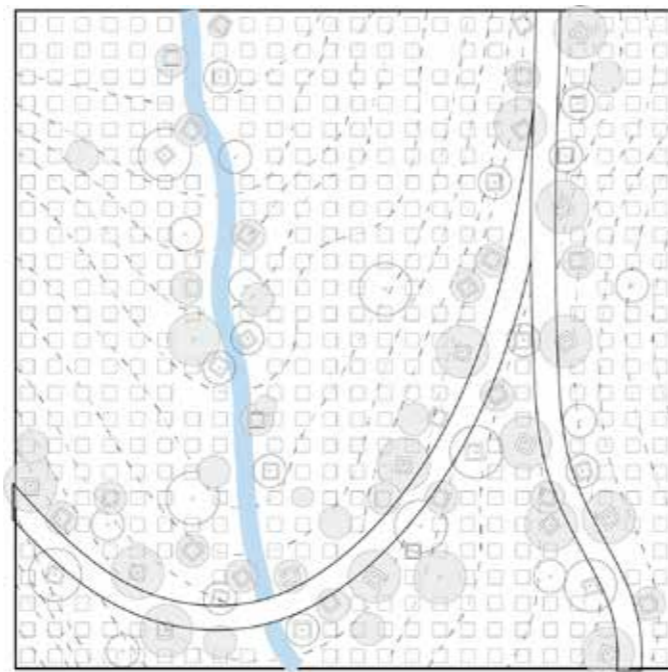
[MODEL]

Type_1 GreenCorridor



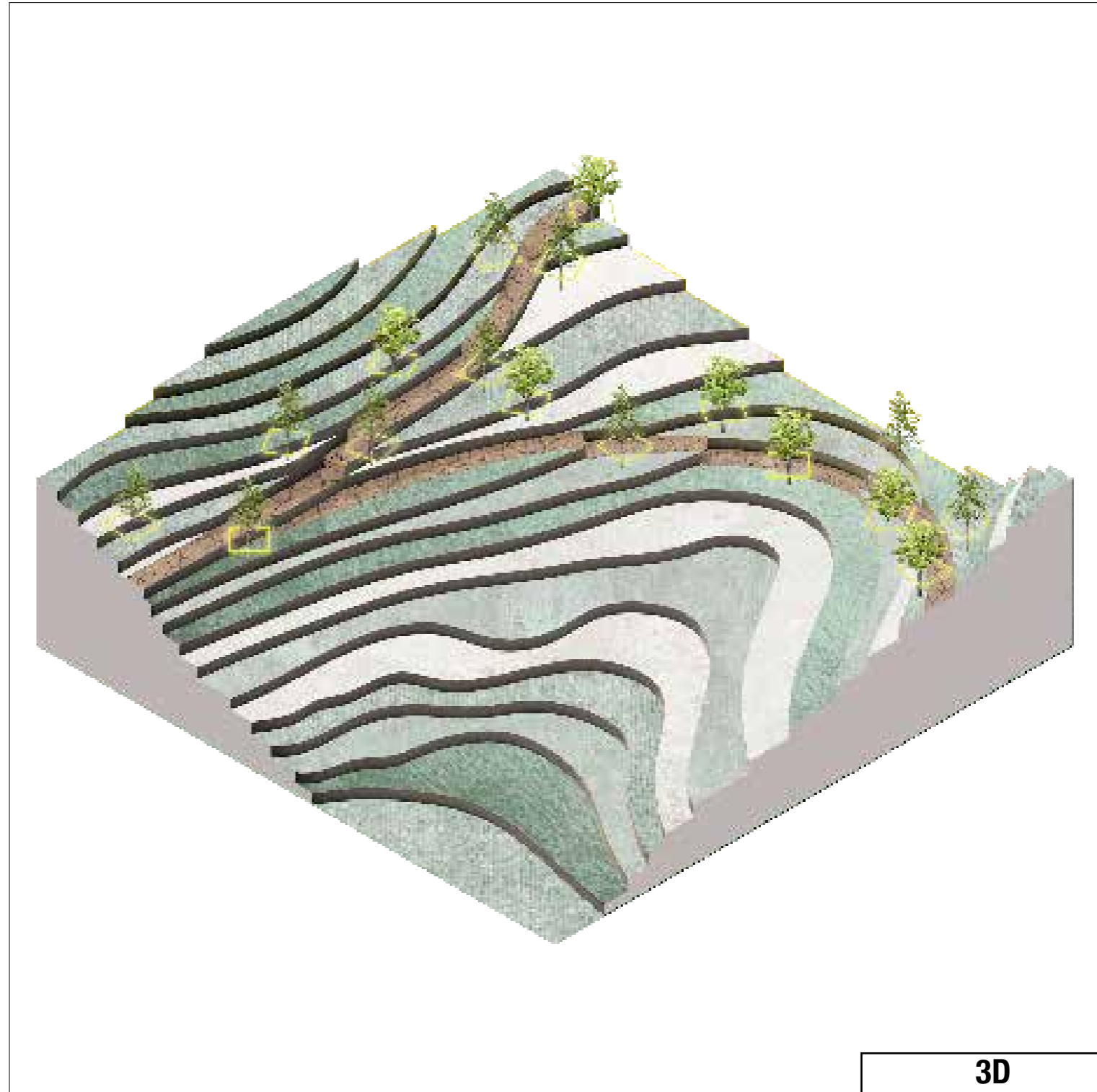
[GEOMETRY]

Type_1 GreenCorridor



[PLAN]

Type_1 GreenCorridor



3D Visualization



[Boundaries REINVENTING]

isolation, abstraction, deletion of elements through tangible reading

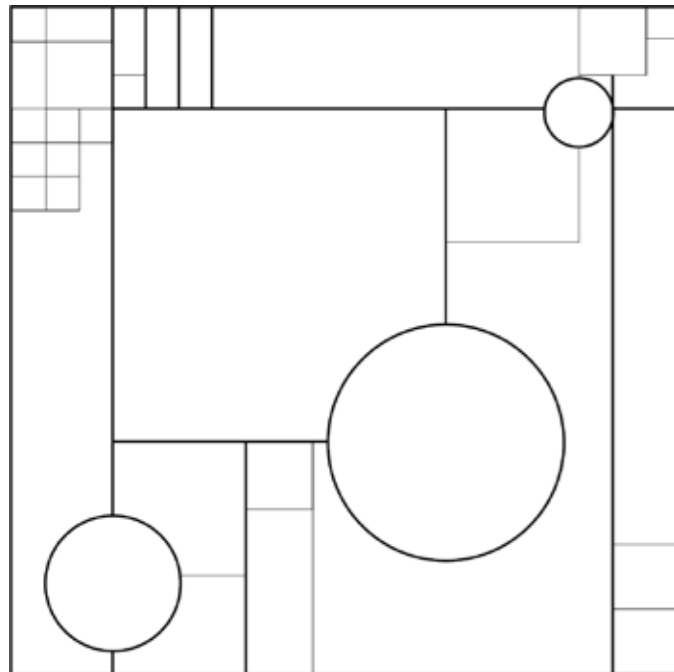


[BOUNDARY REINVENT CONCEPT]

Type_2 IrrigationSystem

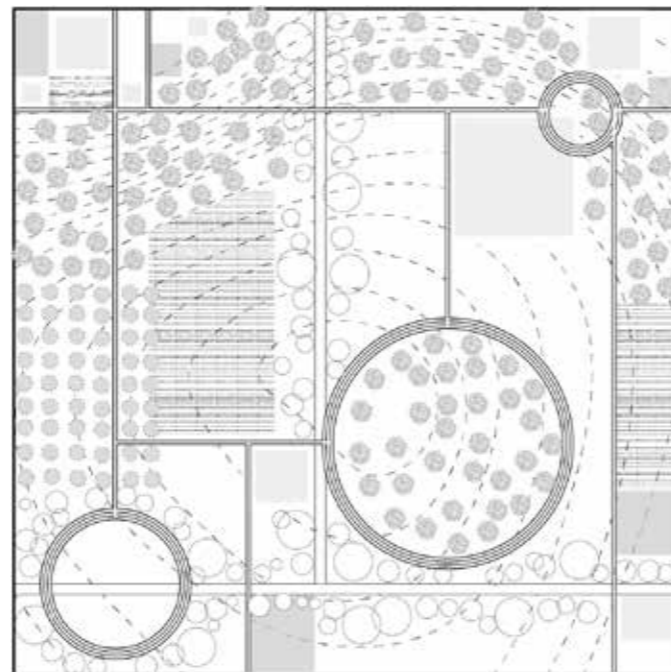
[MODEL]

Type_2 IrrigationSystem



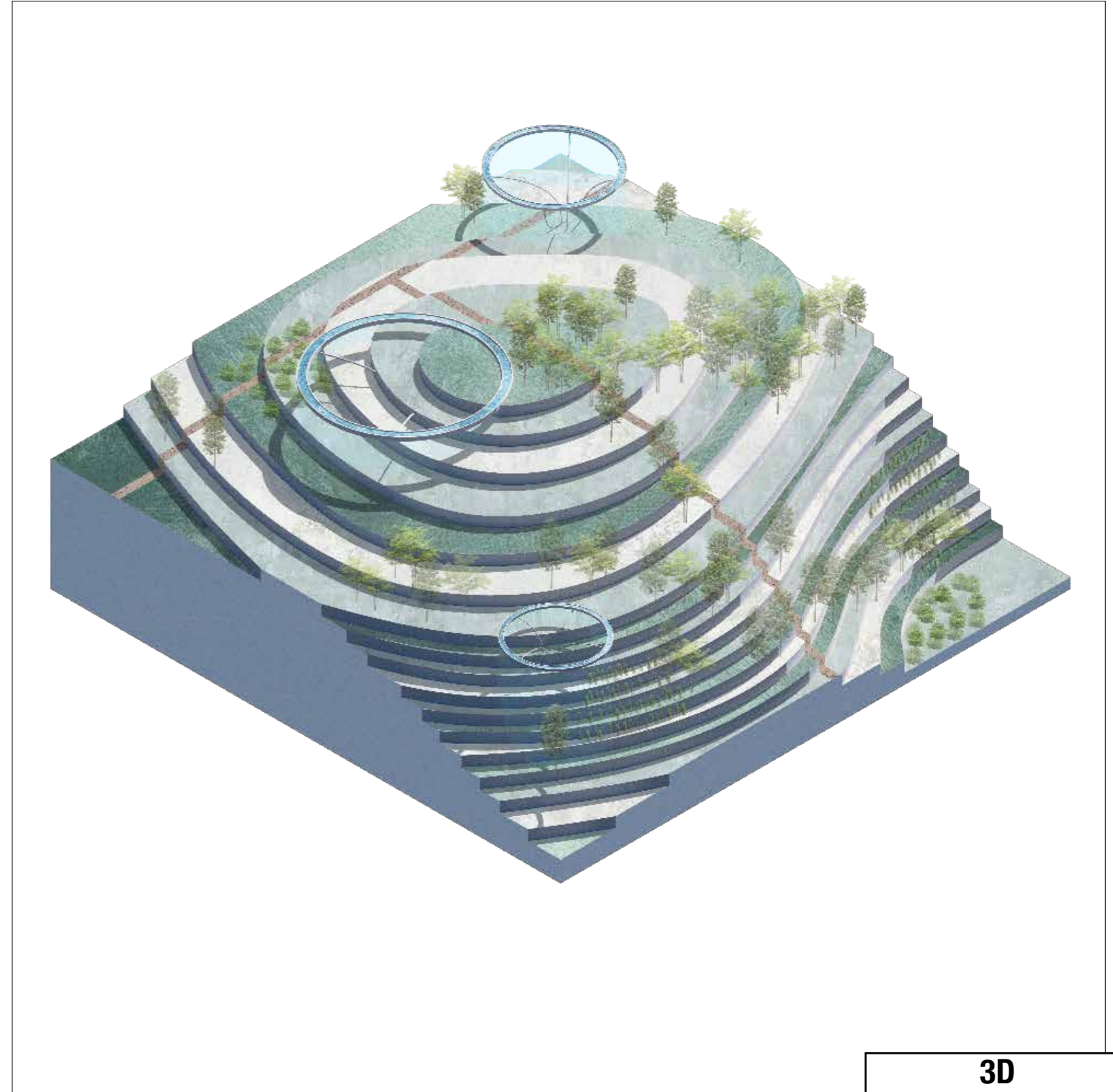
[GEOMETRY]

Type_2 IrrigationSystem



[PLAN]

Type_2 IrrigationSystem



3D Visualization



[Boundaries REINVENTING]

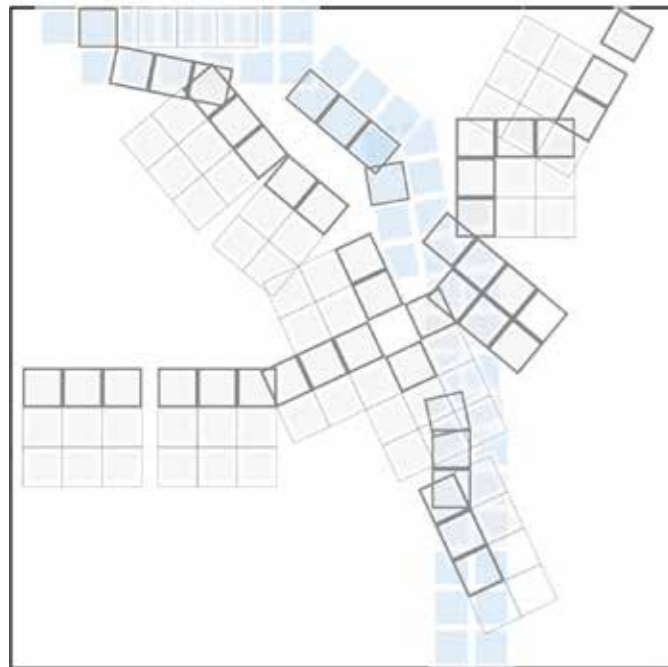
isolation, abstraction, deletion of elements through tangible reading



Type_3
PublicServices

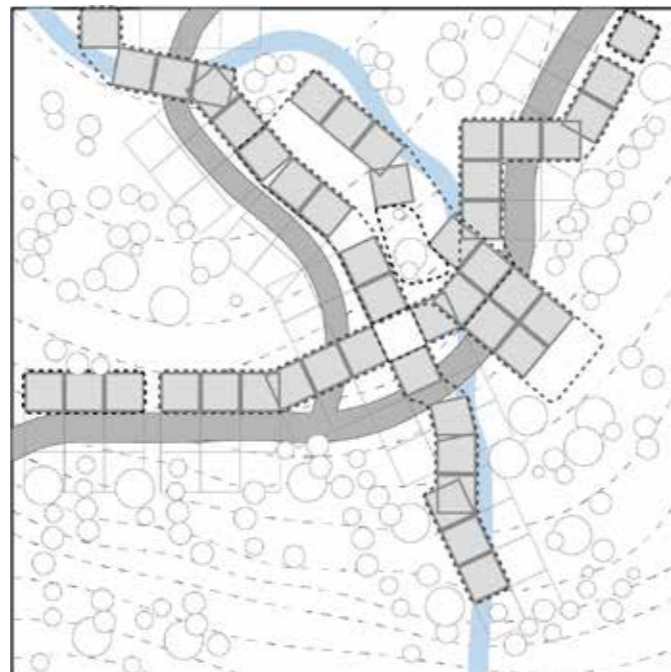
[BOUNDARY REINVENT CONCEPT]

Type_3
PublicServices



[GEOMETRY]

Type_3
PublicServices

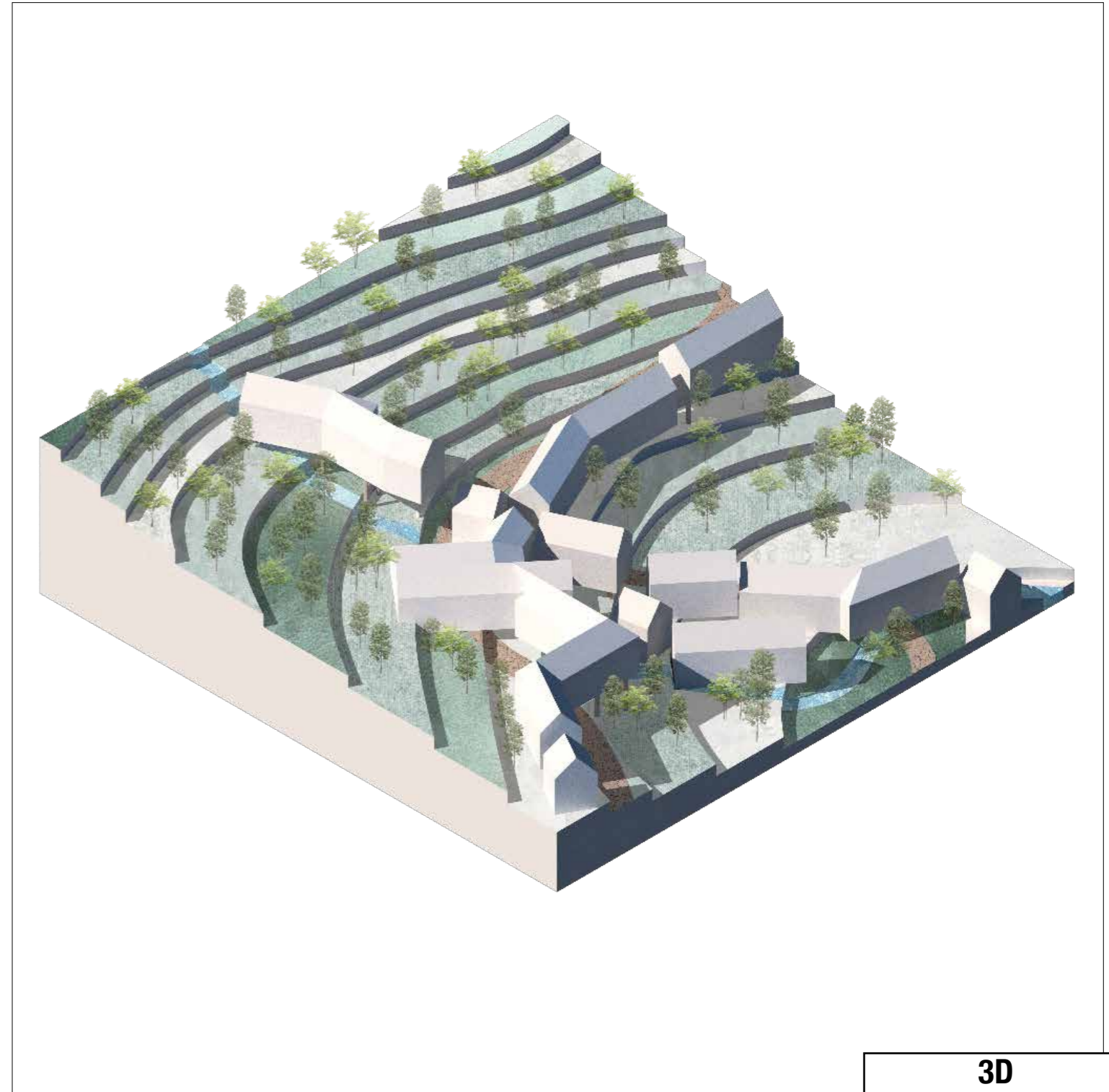


[PLAN]

Type_3
PublicServices

[MODEL]

Type_3
PublicServices

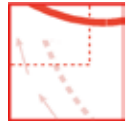


3D
Visualization



[Boundaries REINVENTING]

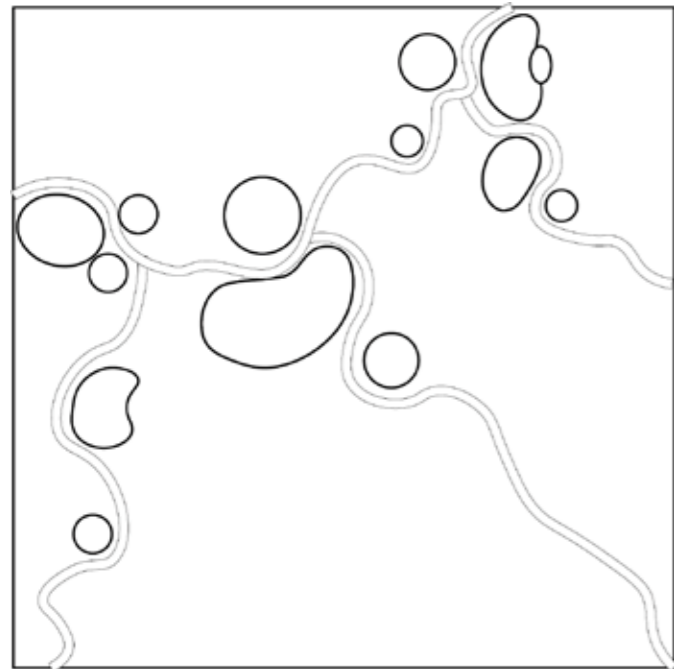
isolation, abstraction, deletion of elements through tangible reading



Type_4
ProtectingDitch

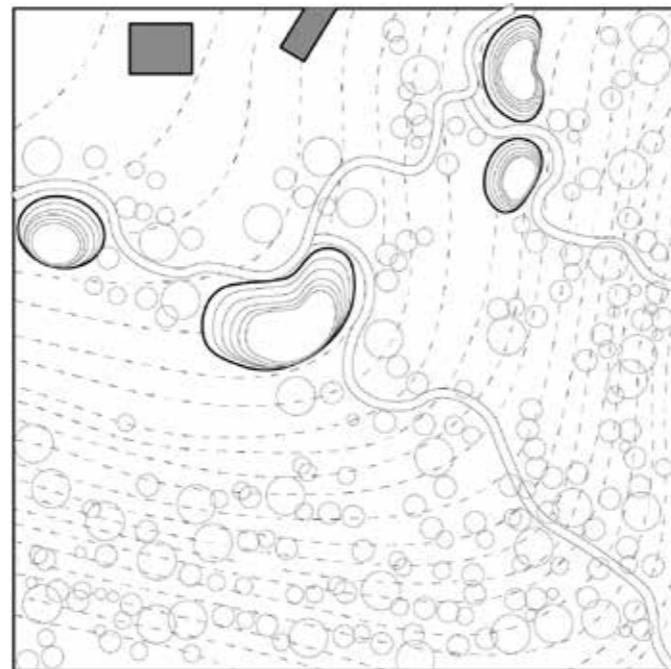
[BOUNDARY REINVENT CONCEPT]

Type_4
ProtectingDitch



[GEOMETRY]

Type_4
ProtectingDitch

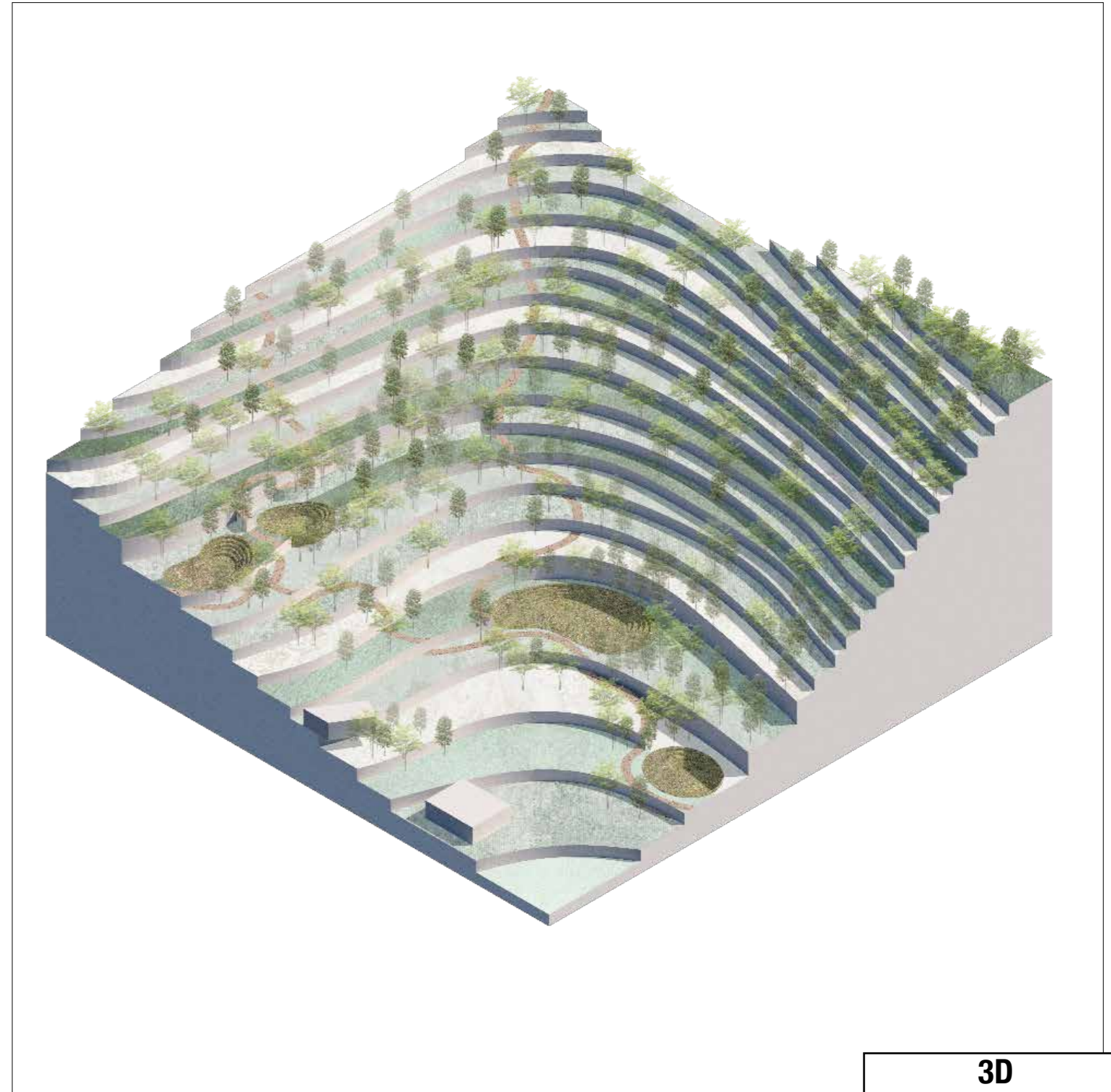


[PLAN]

Type_4
ProtectingDitch

[MODEL]

Type_4
ProtectingDitch



3D
Visualization



[Boundaries REINVENTING]

isolation, abstraction, deletion of elements through tangible reading



[MODEL]

Type_5
PlantationTourism

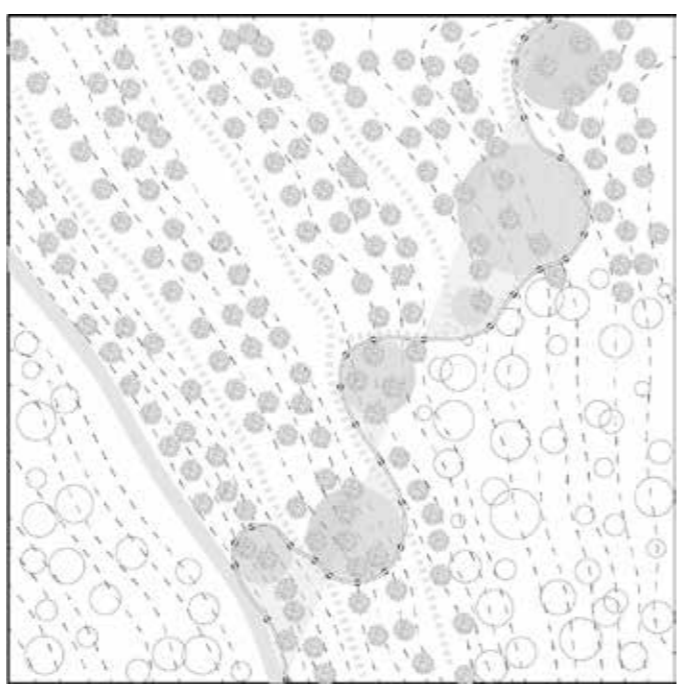
[BOUNDARY REINVENT CONCEPT]

Type_5
PlantationTourism



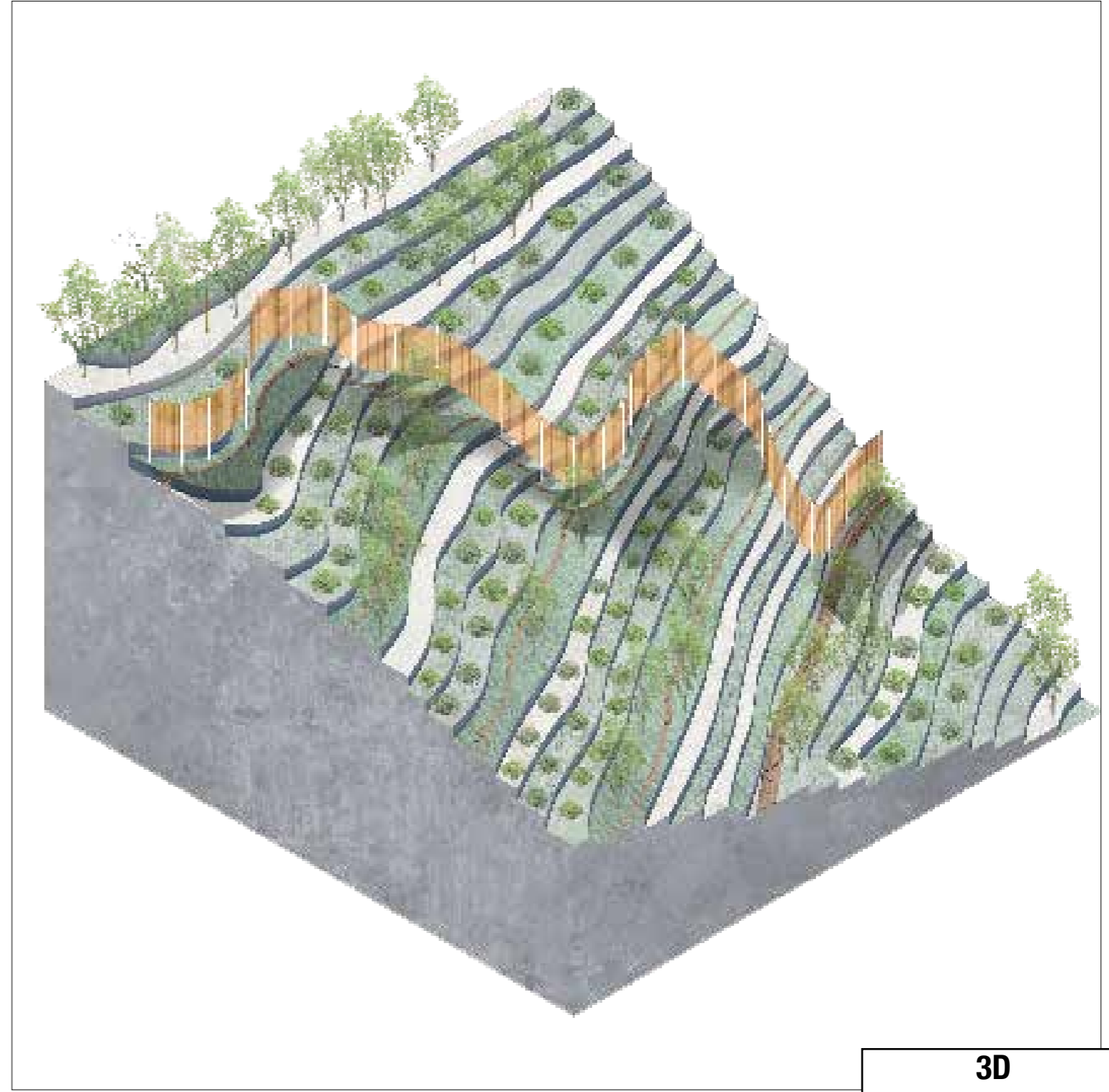
[GEOMETRY]

Type_5
PlantationTourism



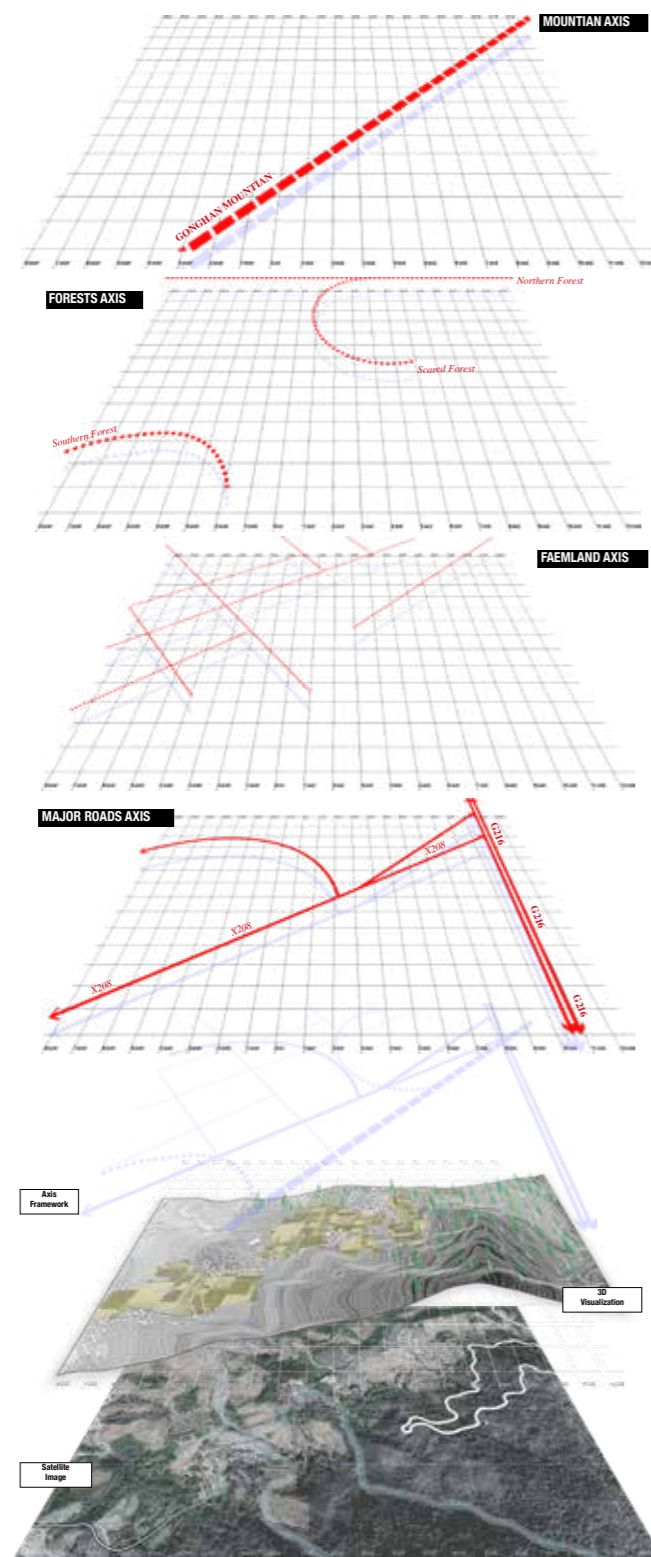
[PLAN]

Type_5
PlantationTourism



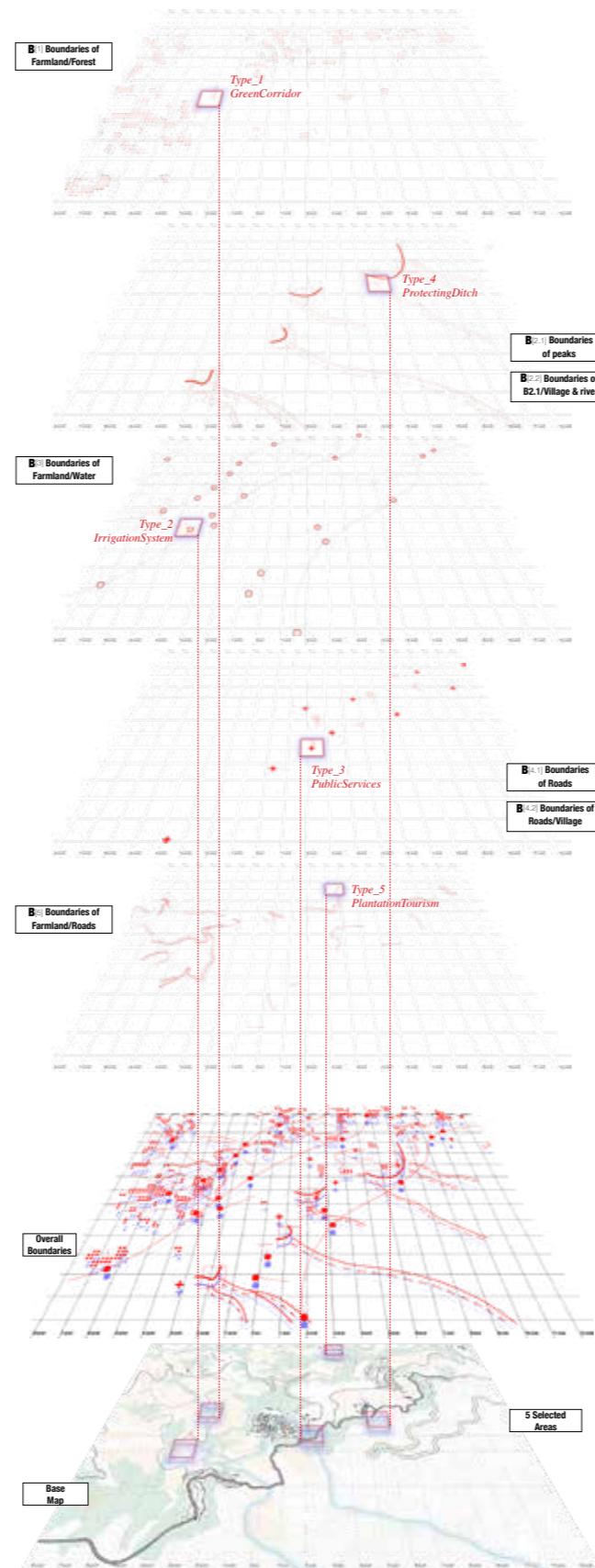
3D
Visualization

METHODOLOGY



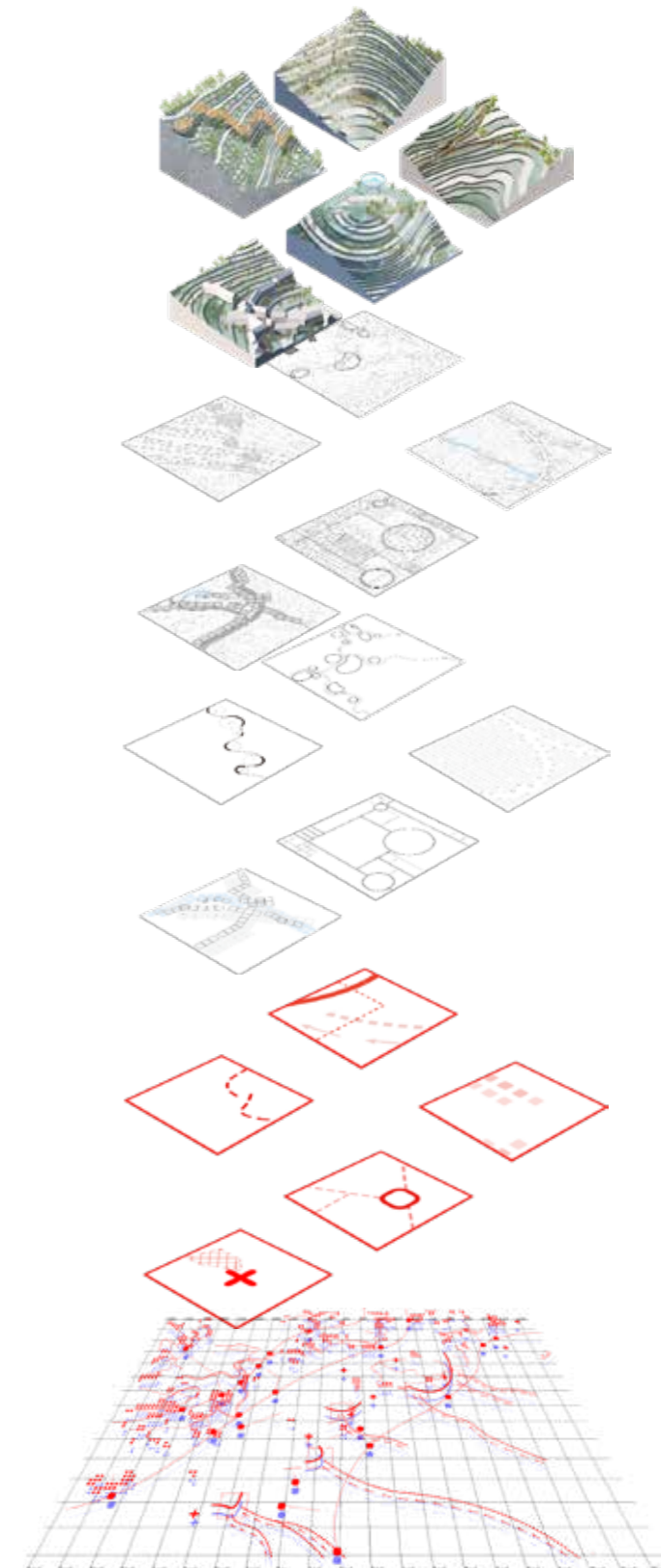
[Landscape FRAMEWORKING]

Step_i
AXIS



[Boundaries GENERATING]

Step_ii
LOCATION



[Boundaries REINVENTING]

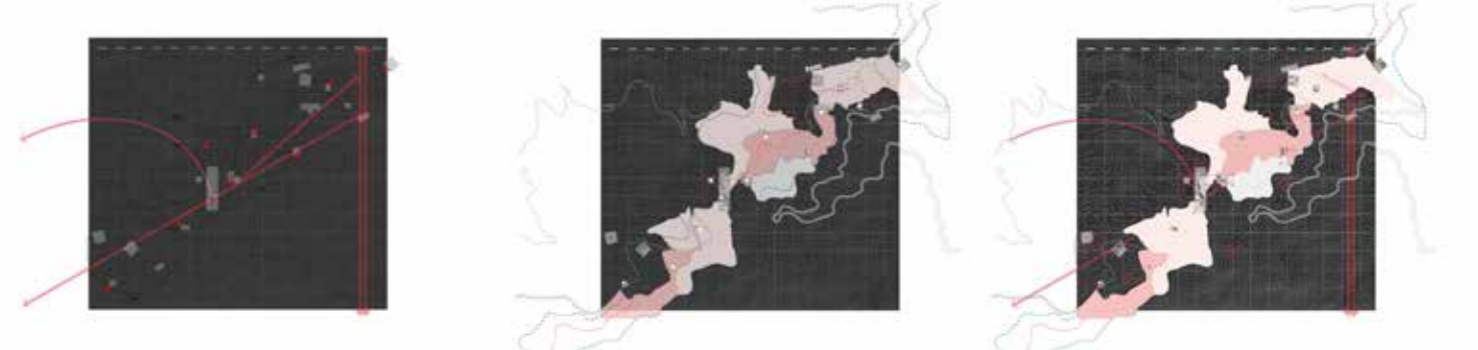
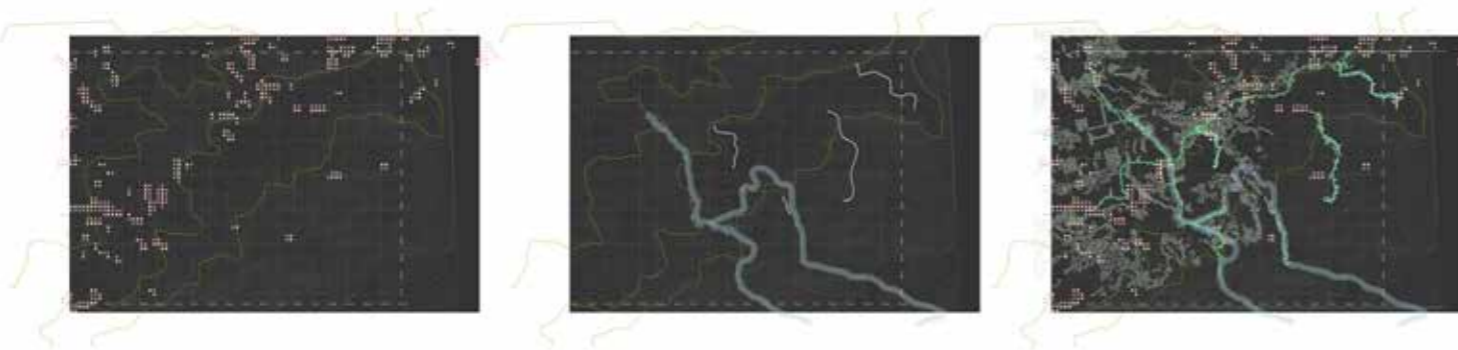
Step_iii
INTERVENTION

METHODOLOGY

[Plan CONSTRUCTING]

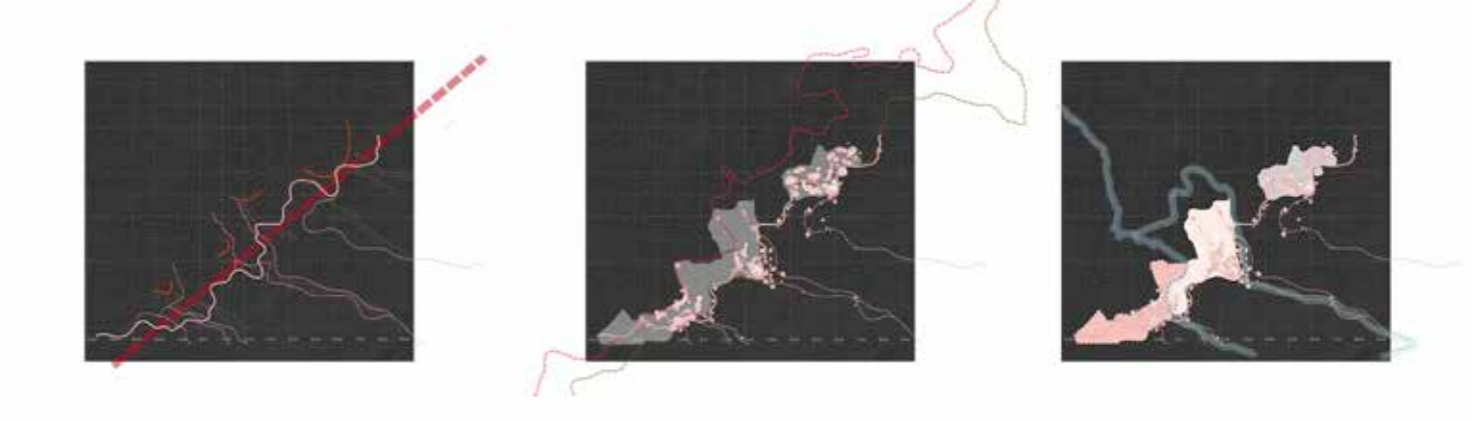
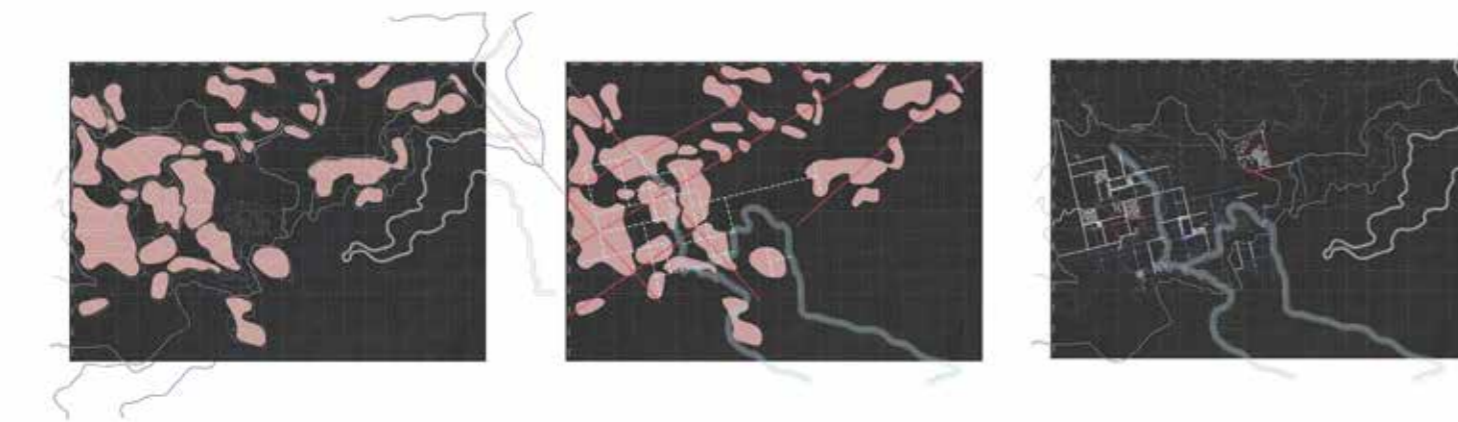
 *Type_1
GreenCorridor*

 *Type_3
PublicServices*



 *Type_2
IrrigationSystem*

 *Type_4
ProtectingDitch*



[1]
[Landscape
FRAMEWORKING]

Connecting

[2]
[contour line
COLLECTING]

Specify Areas

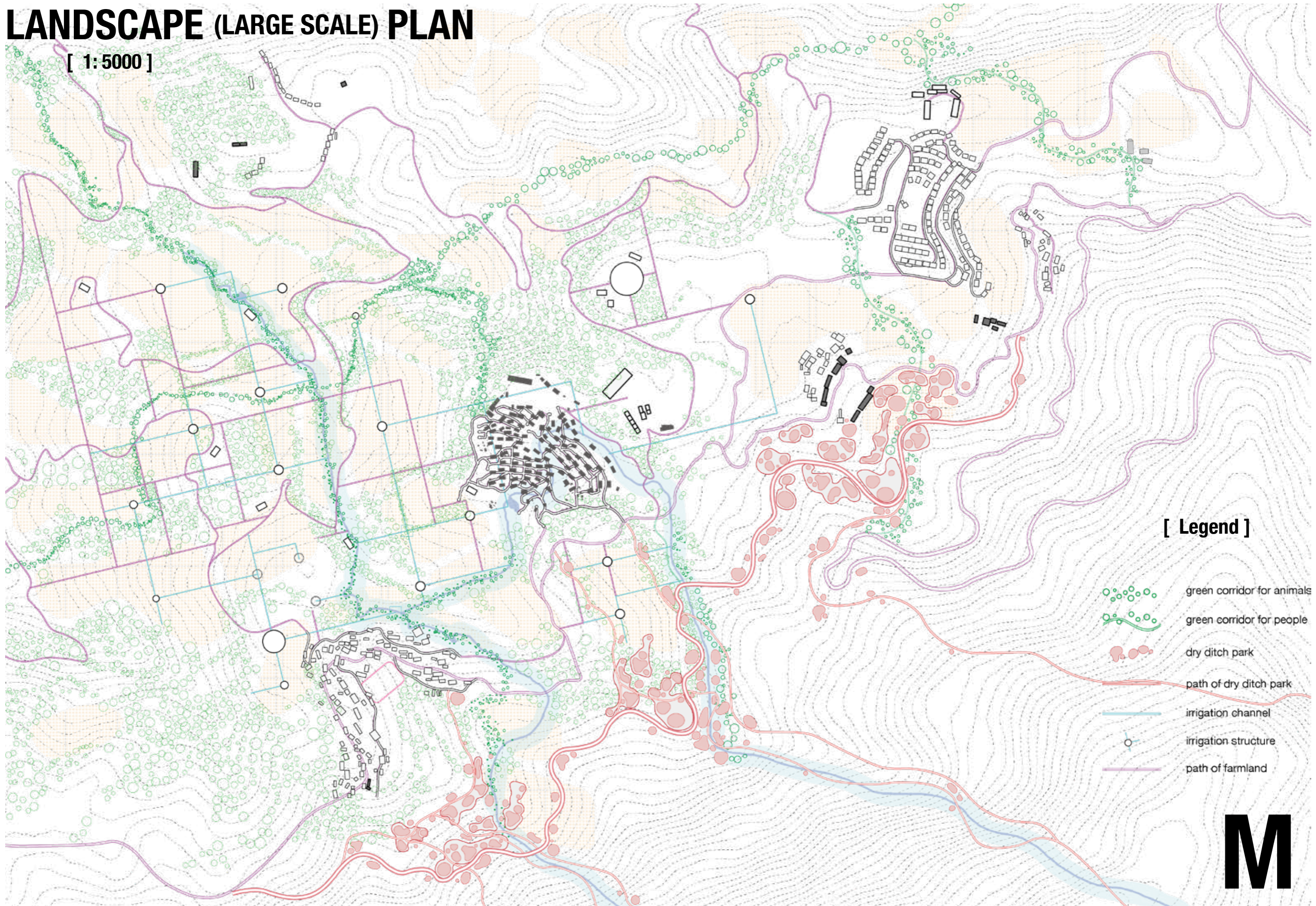
[3]
[Boundaries
GENERATING]

Refine Interventions










LANDSCAPE (LARGE SCALE) PLAN

[1:5000]



[Legend]

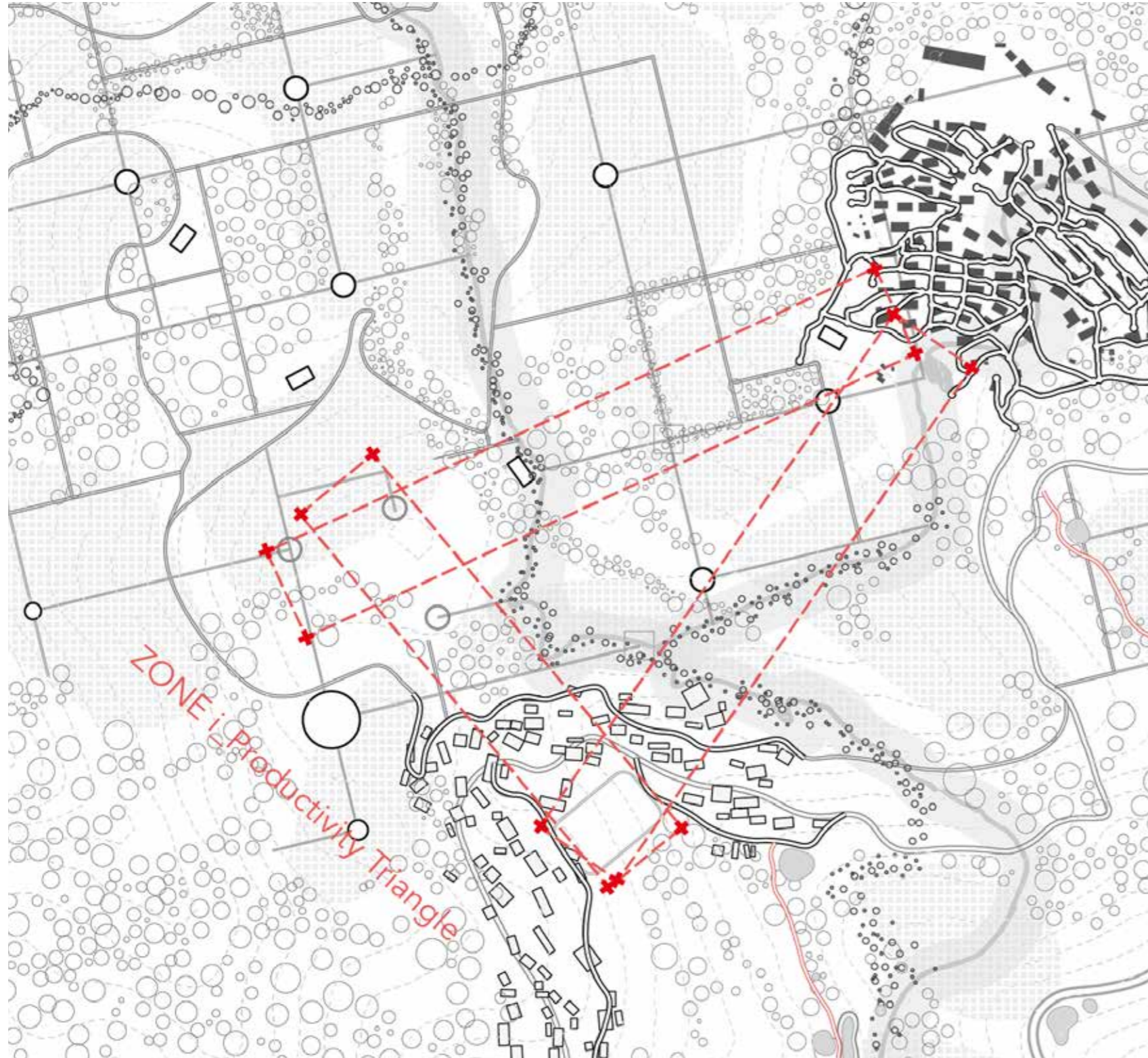
-  green corridor for animals
-  green corridor for people
-  dry ditch park
-  path of dry ditch park
-  irrigation channel
-  irrigation structure
-  path of farmland

M

CONNECTIONS

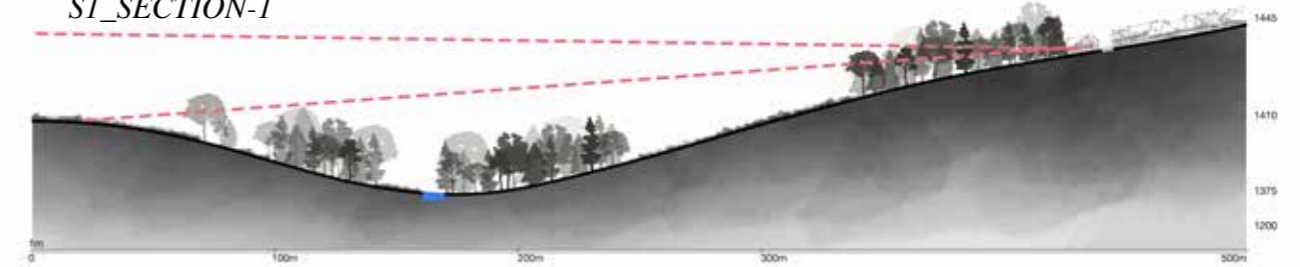
[ZONE I]

ZONE i_Productivity Triangle



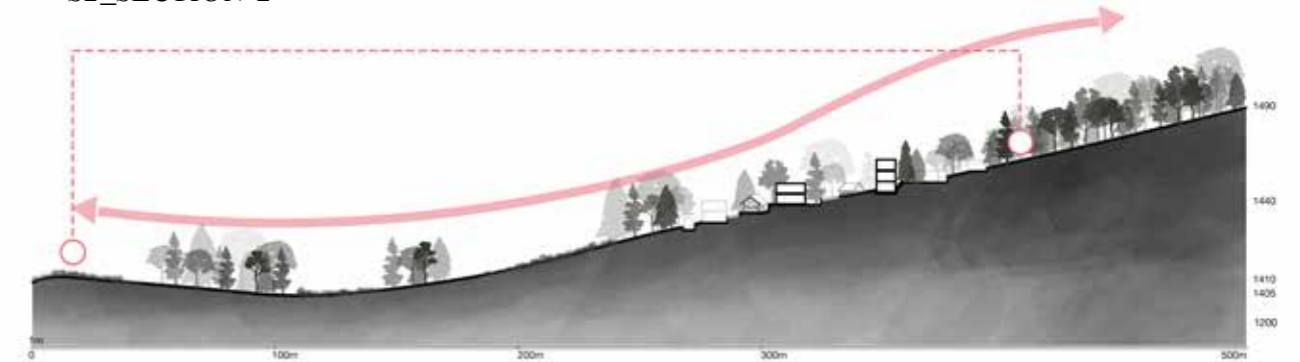
[SECTIONS]

S1_SECTION-1



[SECTIONS]

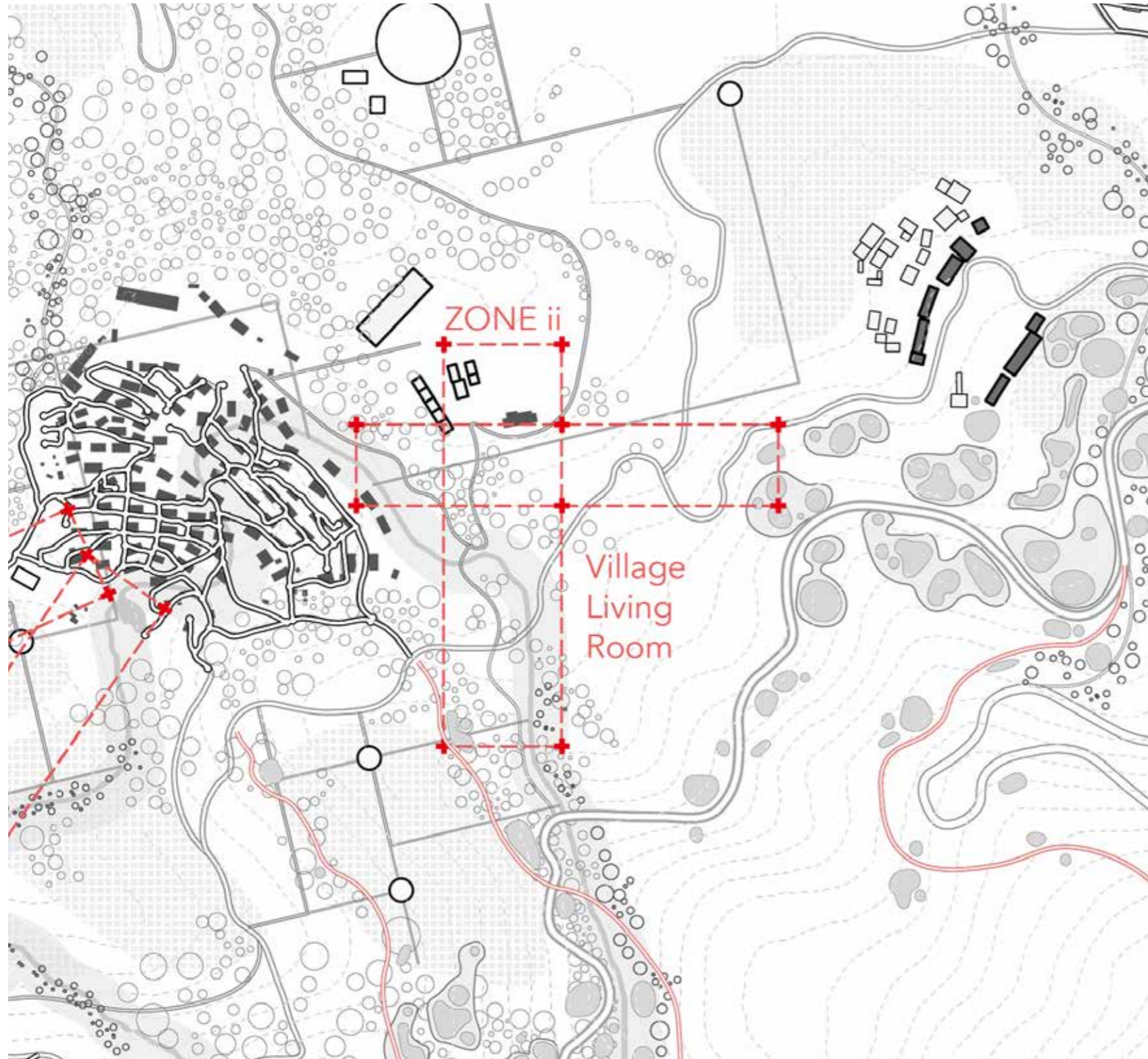
S2_SECTION-2



CONNECTIONS

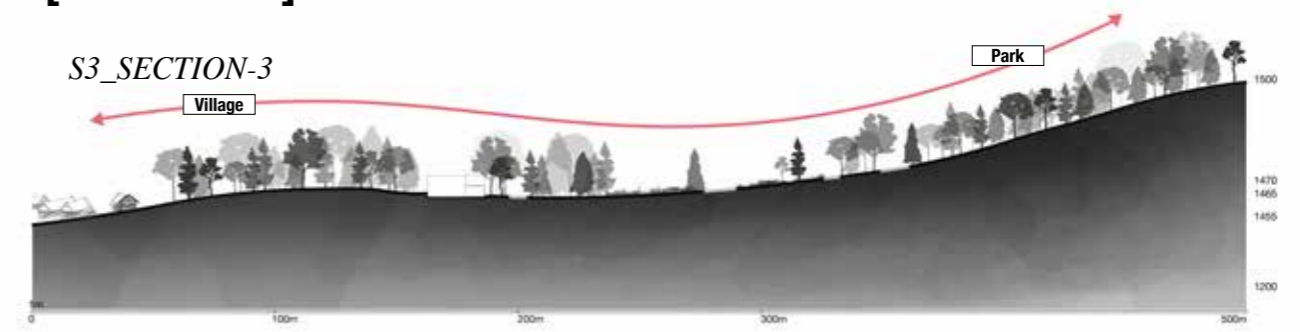
[ZONE II]

ZONE ii_Village Living Room



[SECTIONS]

S3_SECTION-3



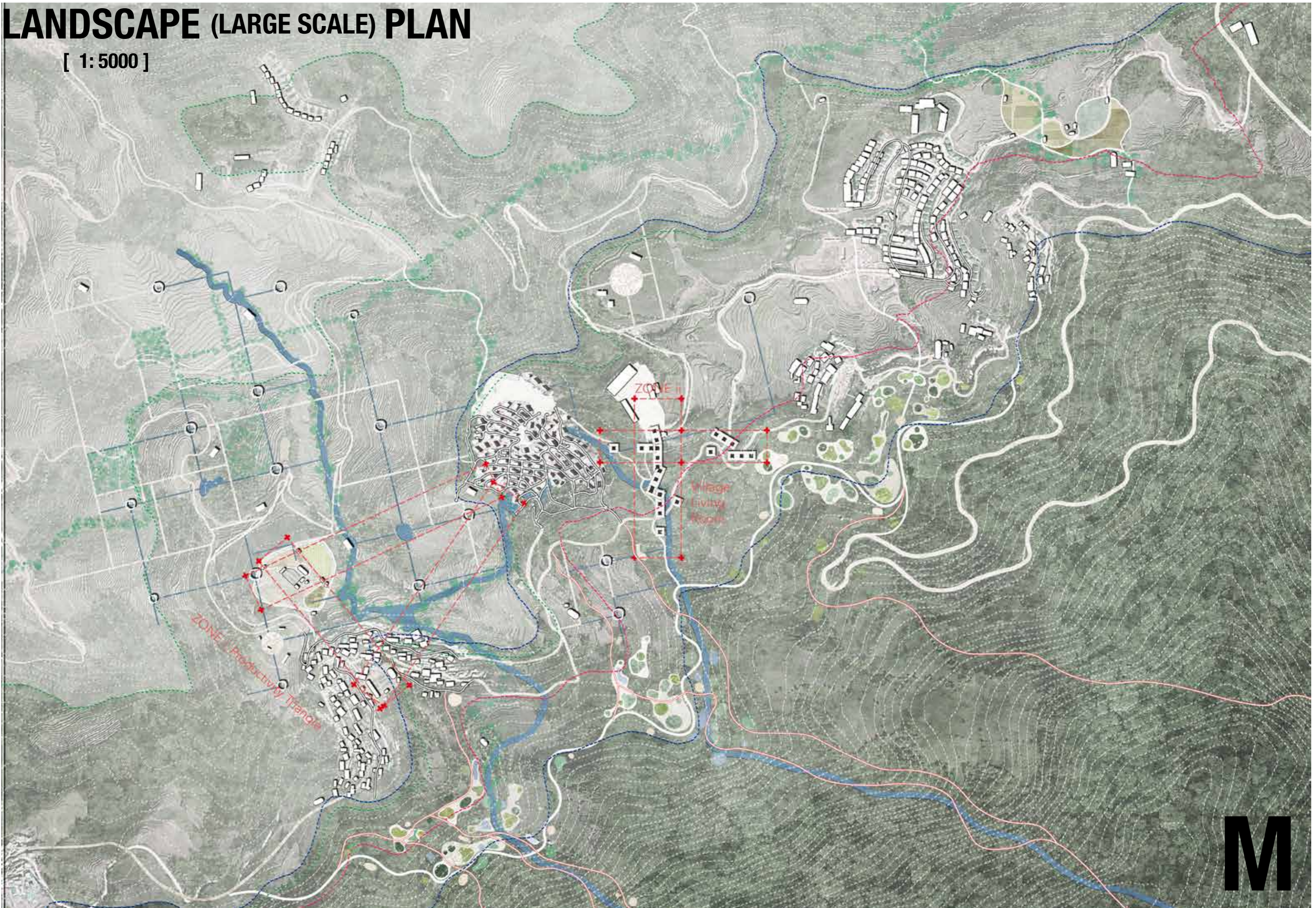
[SECTIONS]

S4_SECTION-4



LANDSCAPE (LARGE SCALE) PLAN

[1:5000]



M

Reconnection:
Regional Architecture
as a Bridge



Water system

Forest

Shurb

Grass

Farmland

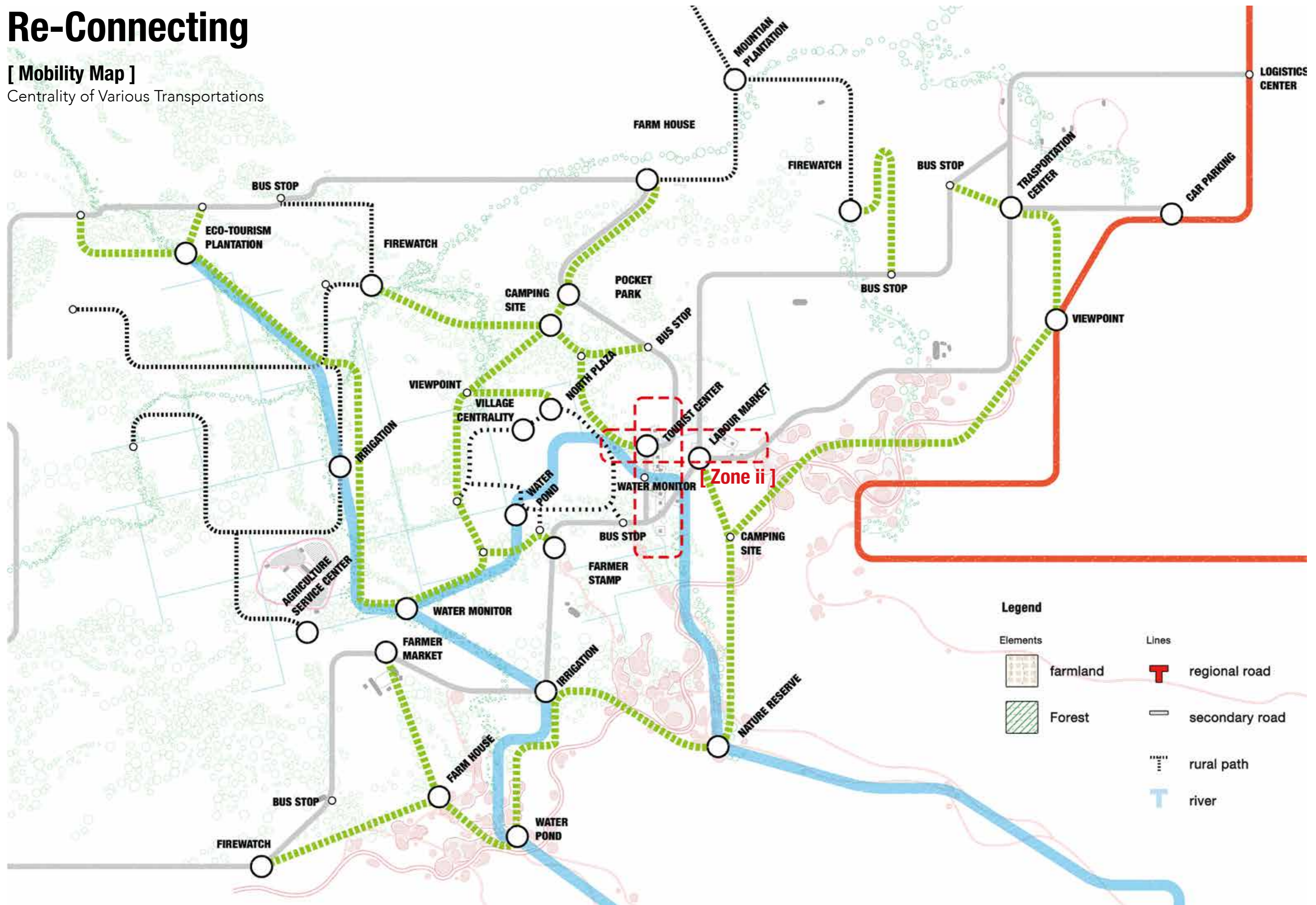
City



Re-Connecting

[Mobility Map]

Centrality of Various Transportations



Legend

Elements

- farmland
- Forest

Lines

- regional road
- secondary road
- rural path
- river

2 CHALLENGES

[Wengding: A S MAP]

Reconnection: Regional Architecture as a Bridge



[1] [Hillside Architecture]

The project needs to cope with the height difference of the hillside, while fitting the needs of pedestrians, vehicles and boats on the river



[2] [Regional Architecture]

Project need to be integrated into the local culture and natural environment, and constructed with materials and techniques adapted from ethnic minorities group or the region.

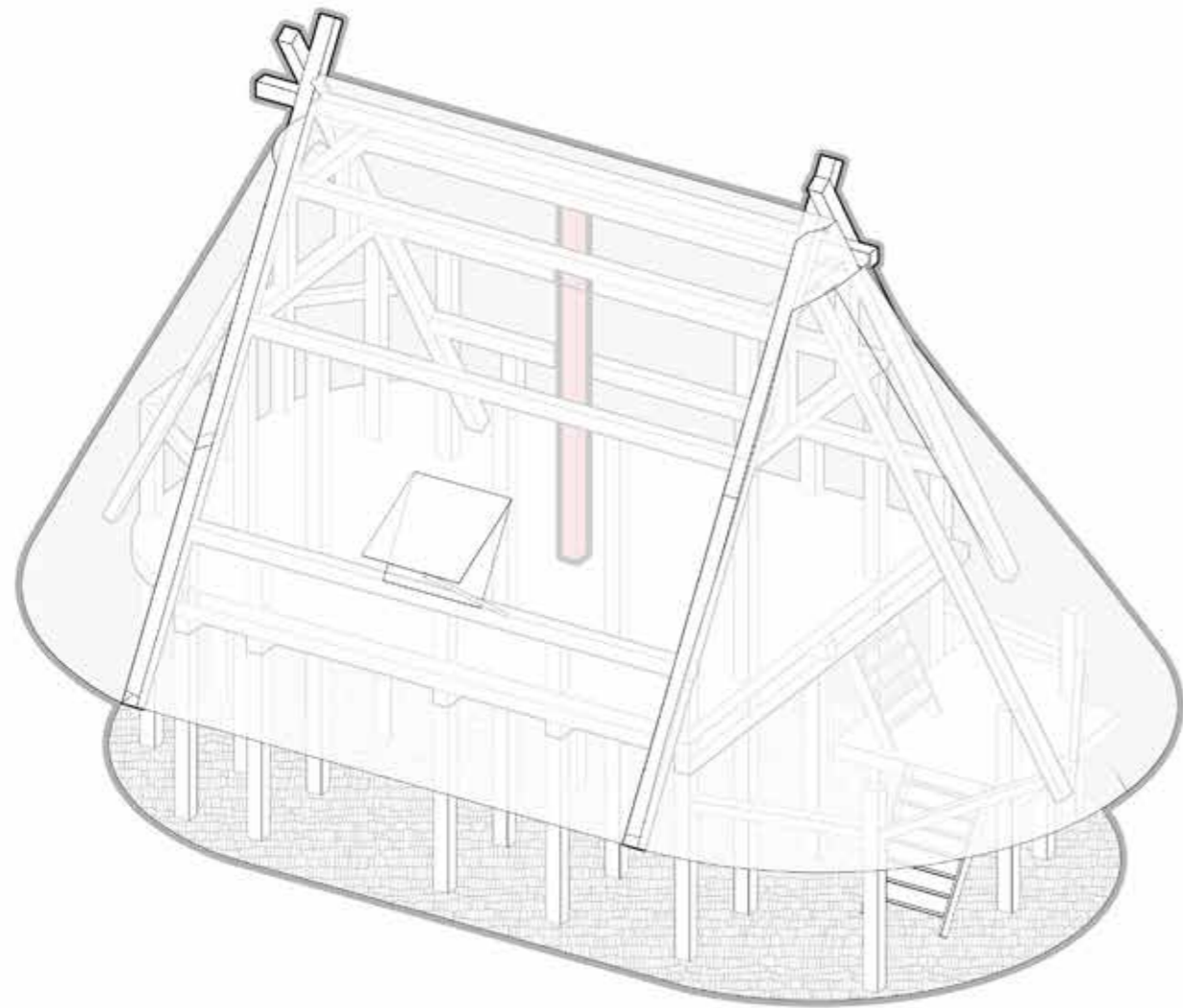
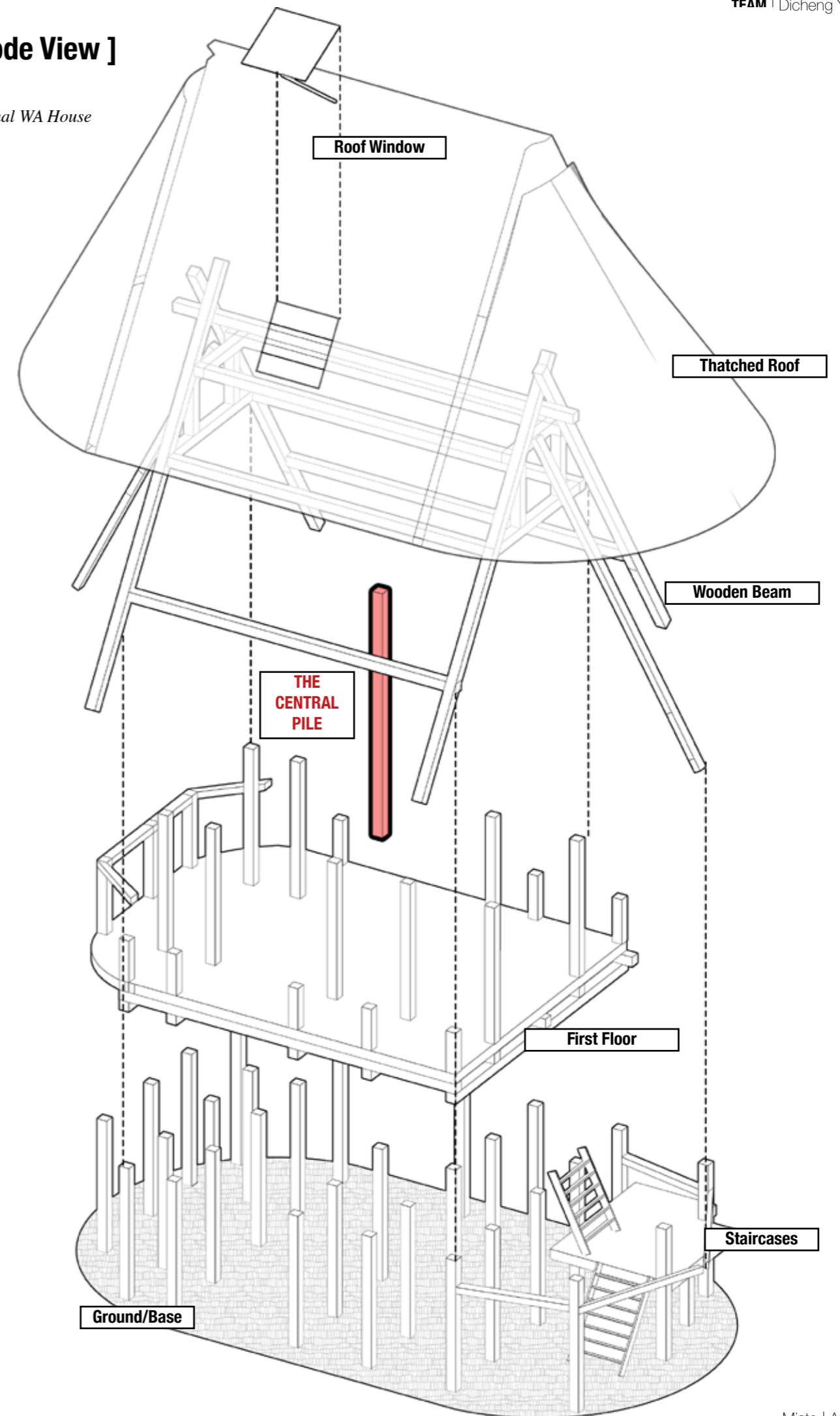
ARCHITECTURAL RESEARCH

[REFERENCE]

The Heart of the House: The Central Pile

[Explode View]

Traditional WA House



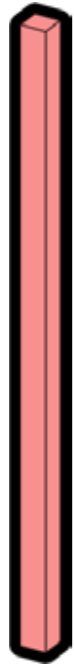
[Illustration]

Traditional WA House

REGIONAL SOLUTIONS

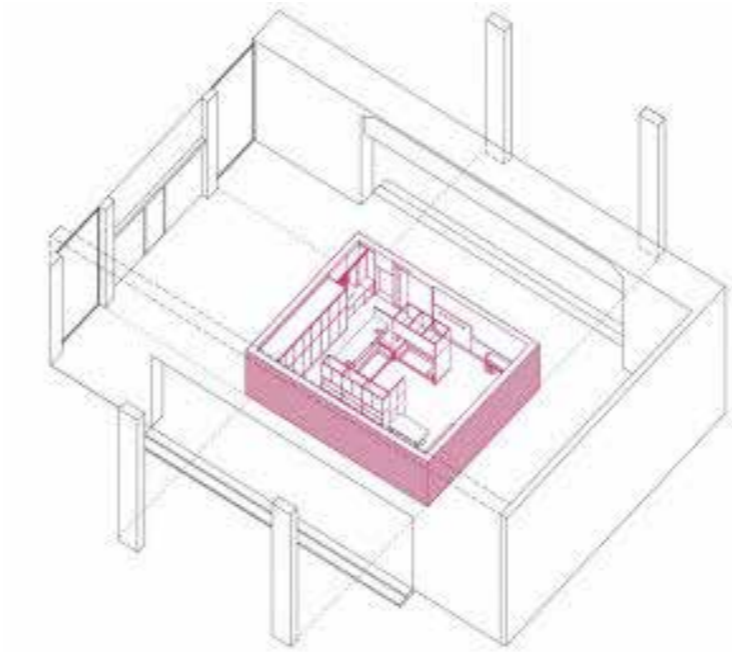
[Pile Room]

Supporting Structure As Living Unit



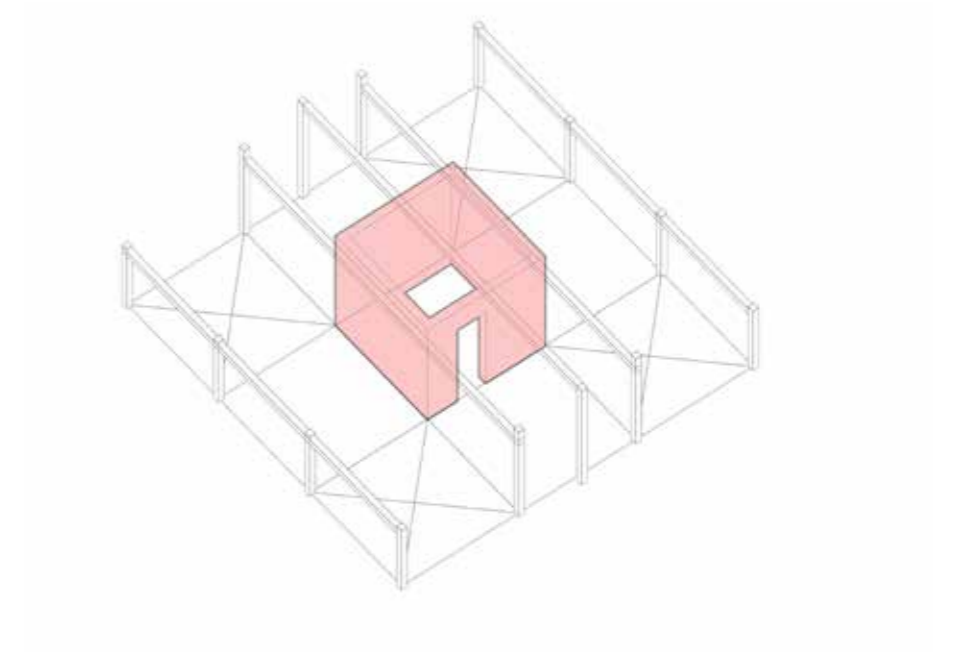
[Pile]

*The Central Pile
Wengding*



[Room]

*Casa Lana
Milano*



[Pile Room]

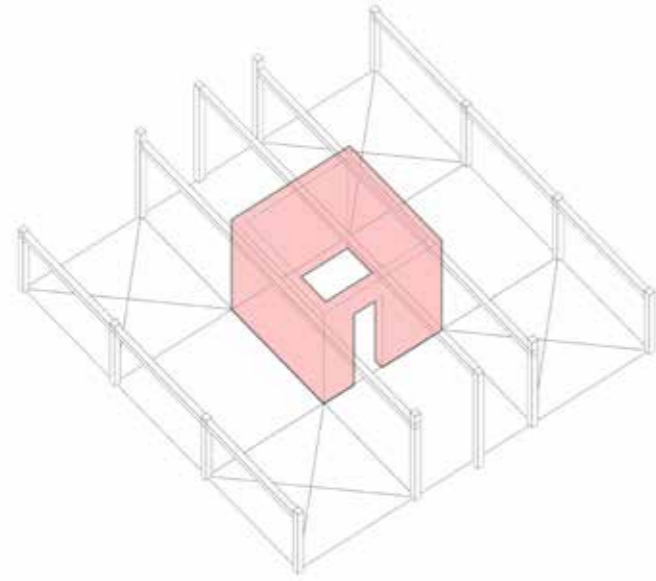
The New Identity



HILLSIDE SOLUTIONS

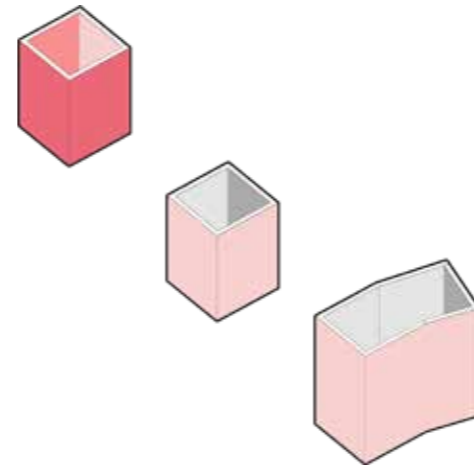
[Hillside Module]

Transformation: From Residential to Public



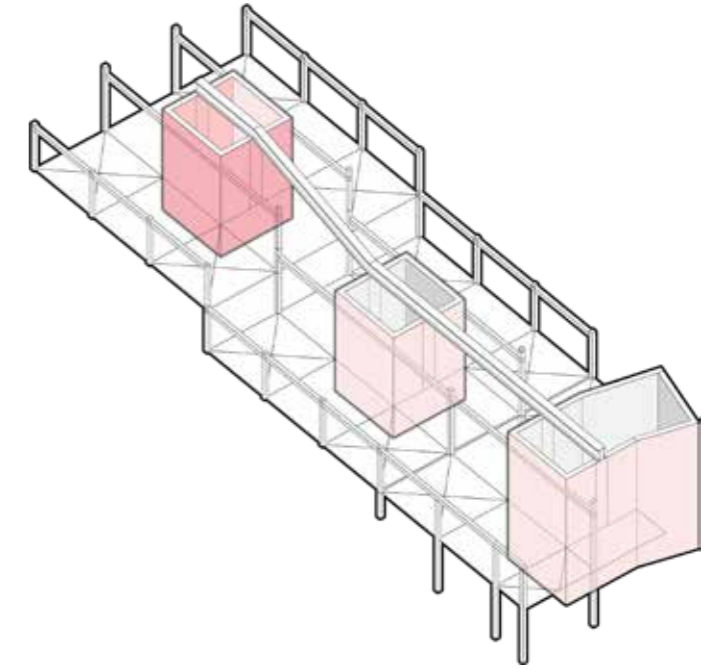
[Unit-House]

House



[Piles]

Structure



[Public Building]

The New Identity



[Wengding: A S MAP]

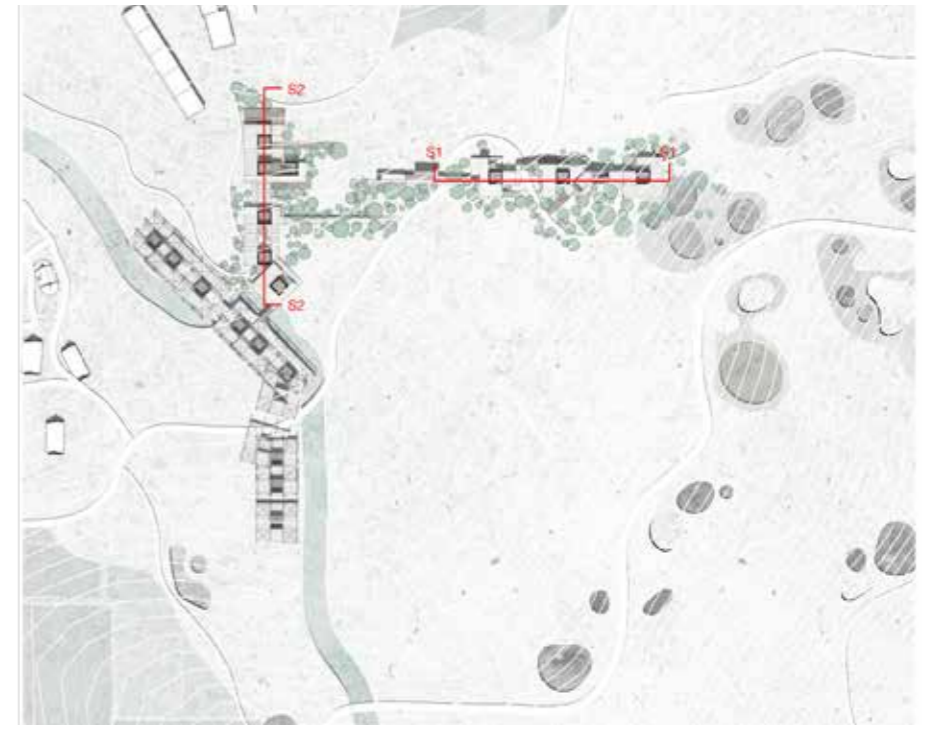
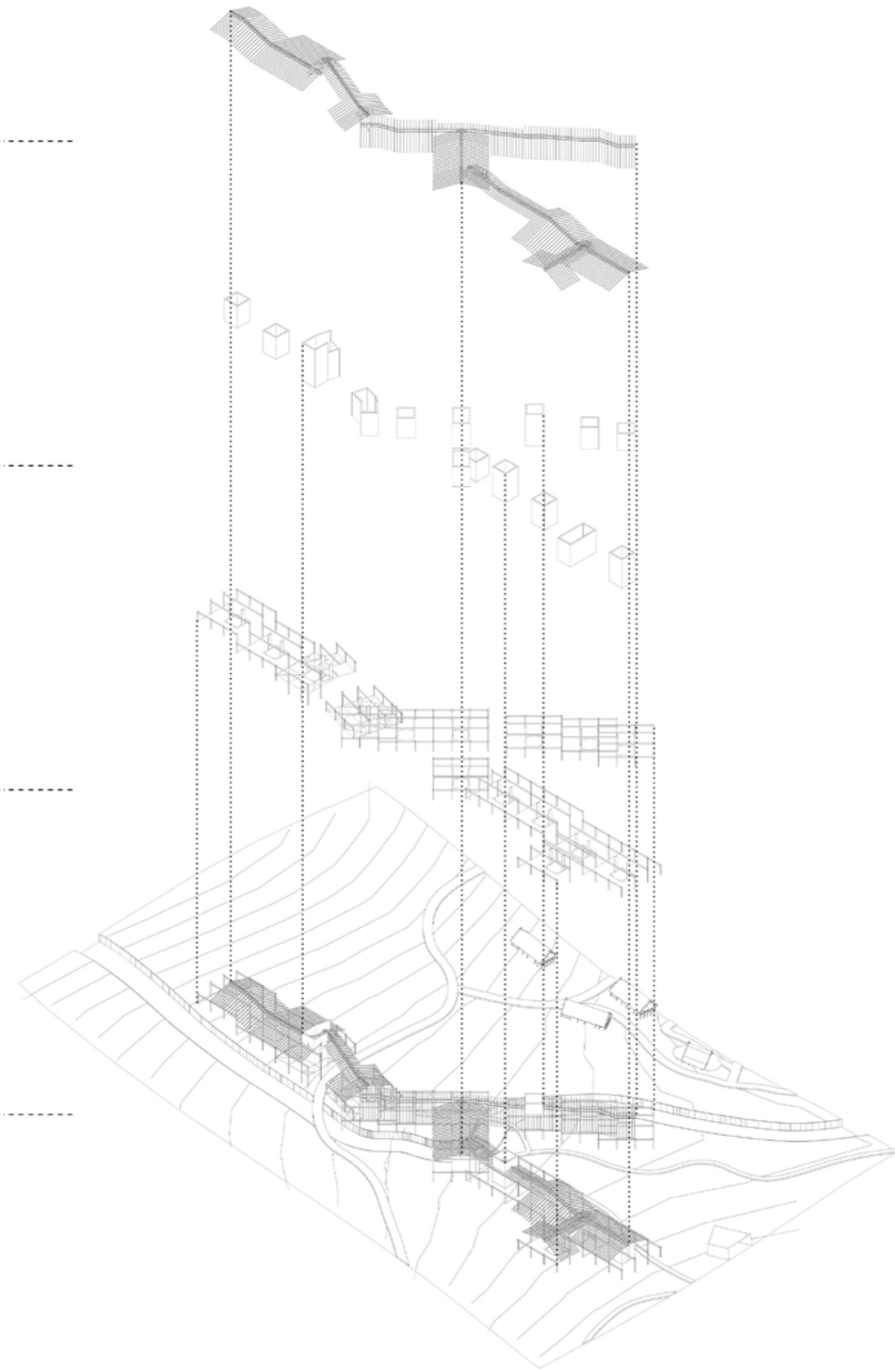
Reconnection: Regional Architecture as a Bridge

Roof -----

Load-bearing column -----

Structure -----

Environment -----



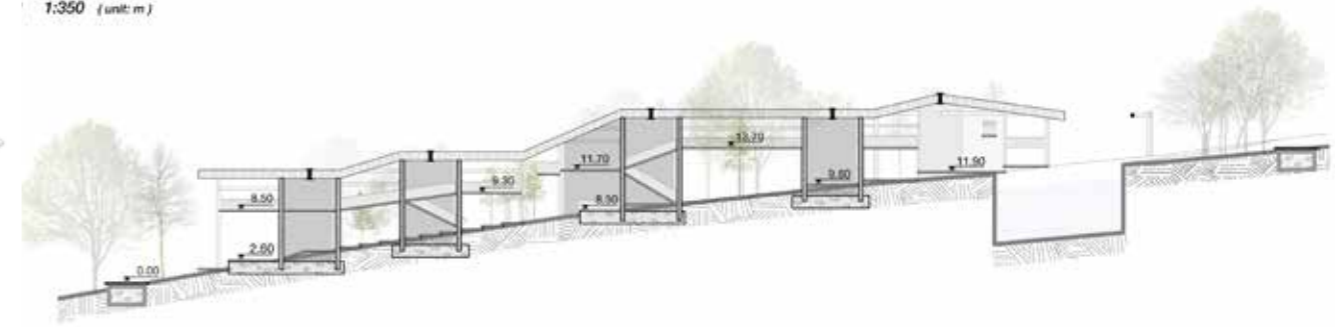
[SECTIONS]

S1_SECTION-1
1:350 (unit: m)



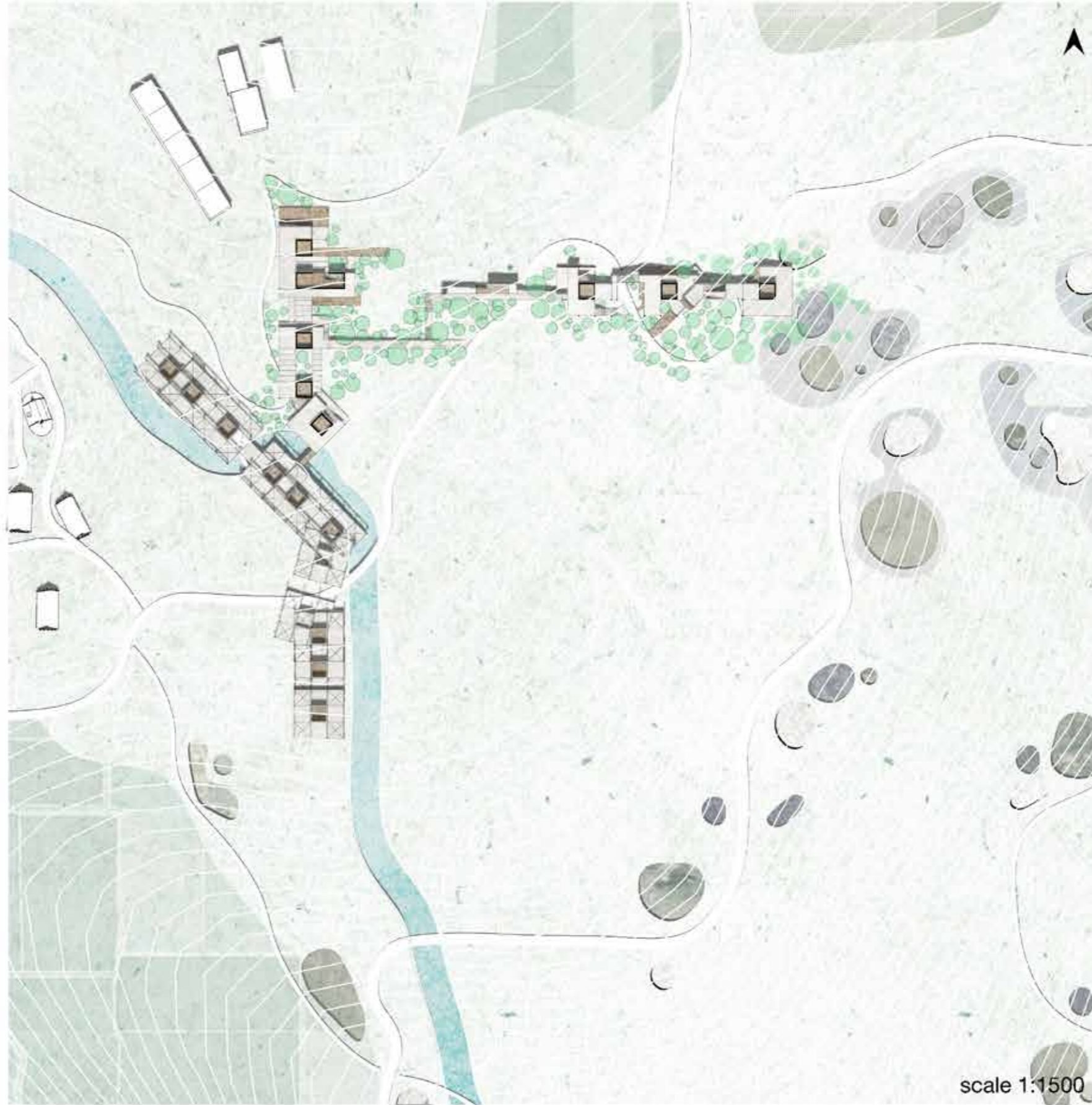
[SECTIONS]

S2_SECTION-2
1:350 (unit: m)



[Wengding: A S MAP]

Reconnection: Regional Architecture as a Bridge



S

