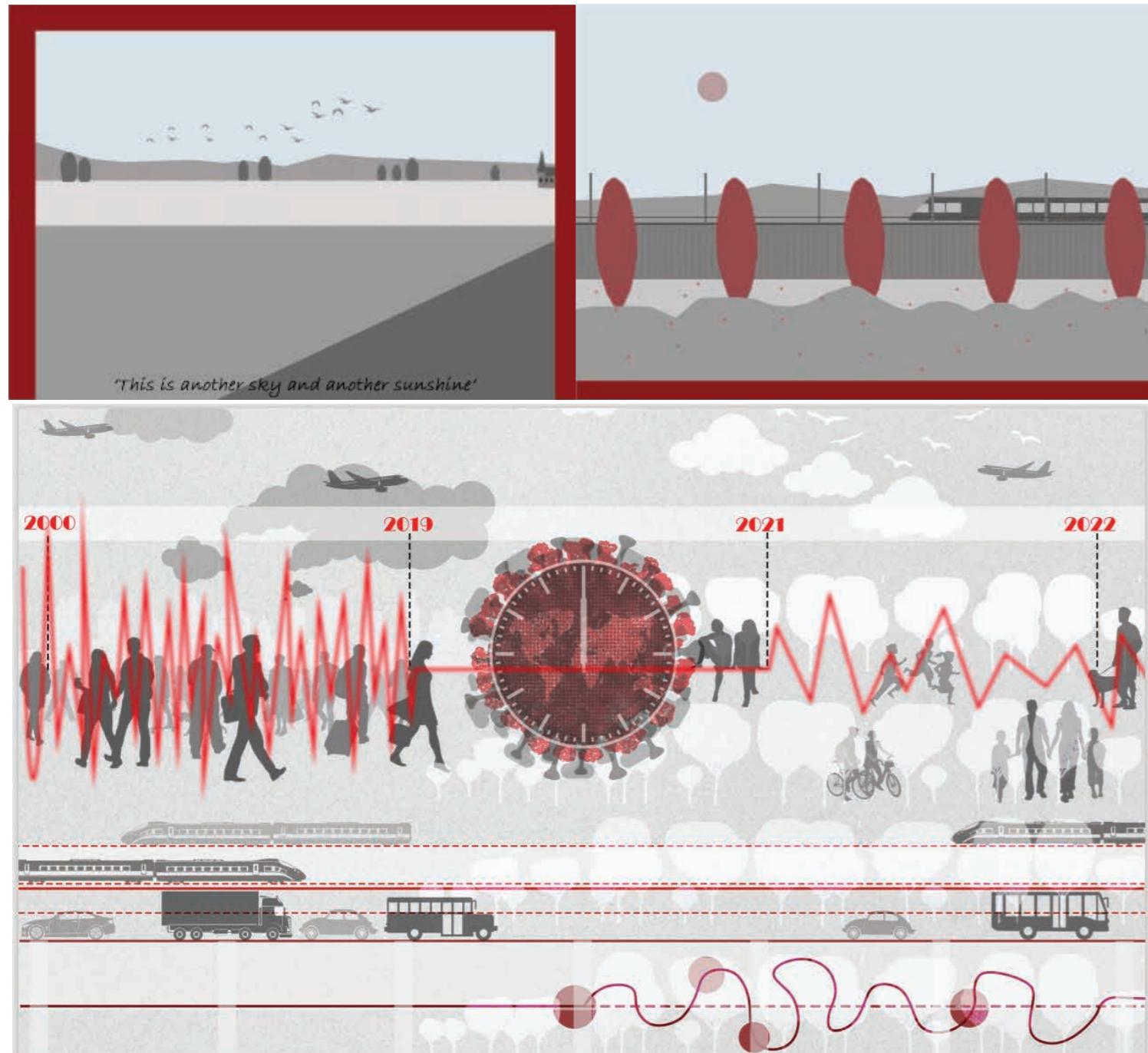


LANDSCAPE ARCHITECTURE
PORTFOLIO 2022
MAURYA SUMANTH MANI

TABLE OF CONTENT



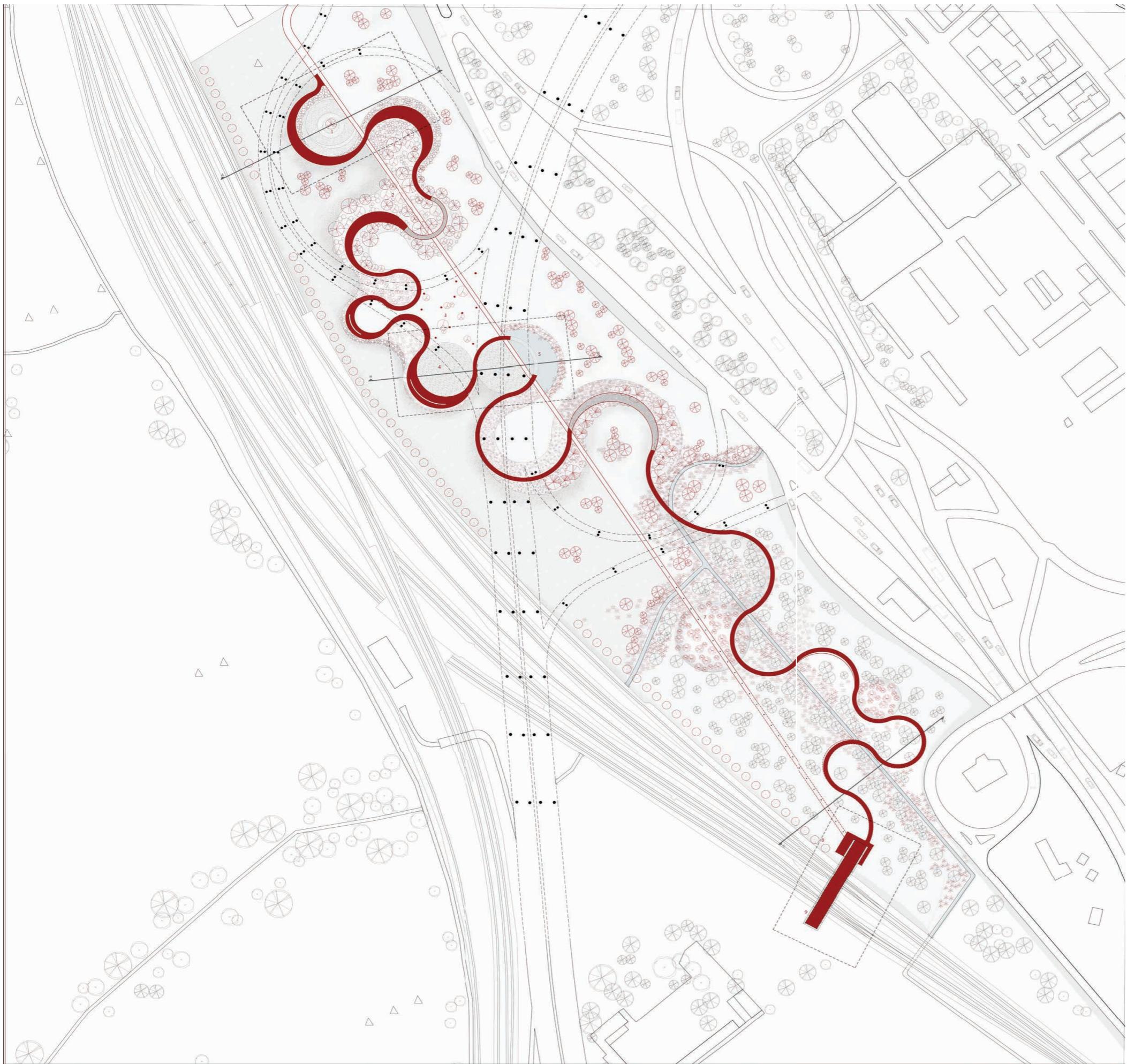
1. PARCO PIANO

Location: San Donato, Milan, Italy
 Collaborator: Sumanth Maurya, Erfan Rahbarzare, Anu Babu, Roniya Roy
 Institution: Politecnico di Milano
 Studio: Landscape Design Studio II
 Instructor: Prof.Protasoni Sara, Prof.Strode Hope Ives

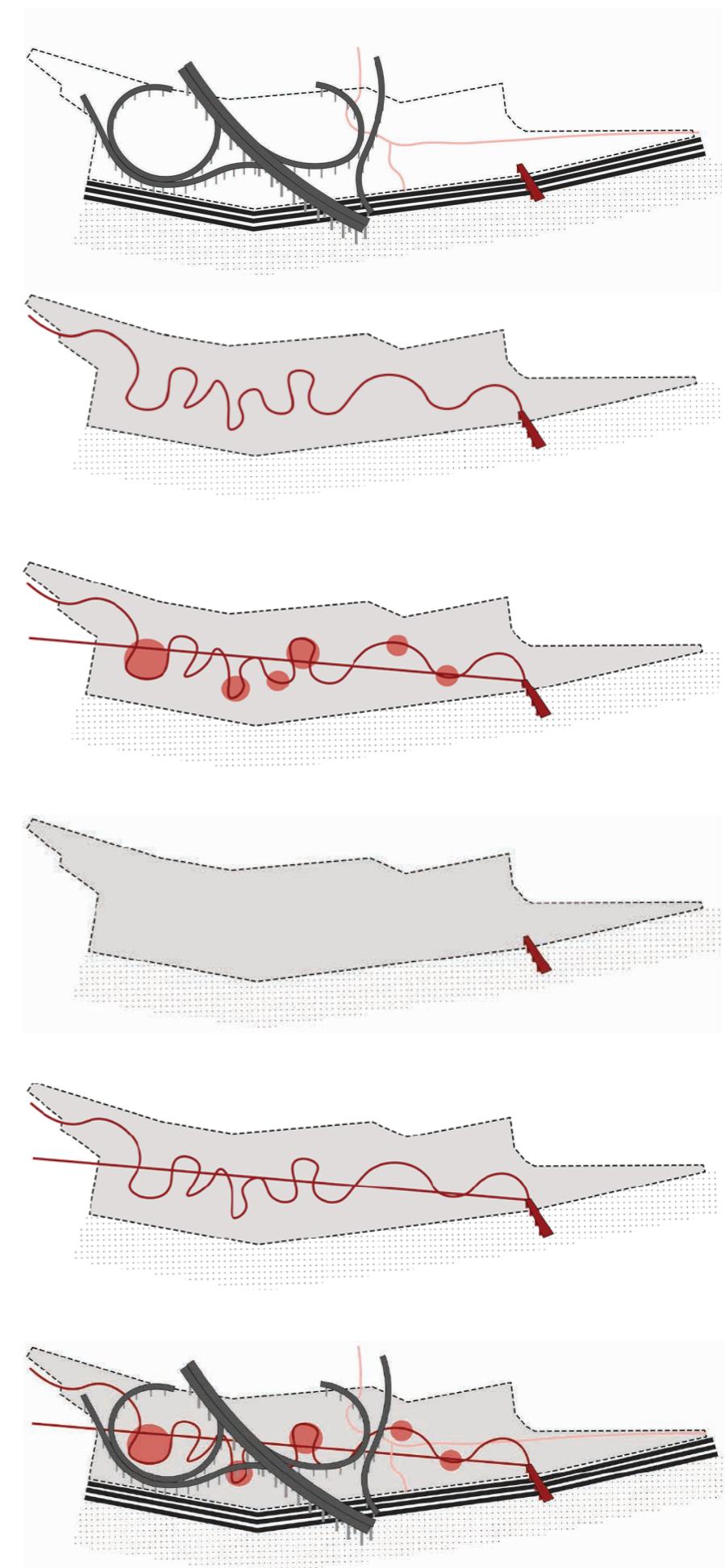
Project Scope

As we move to a post-pandemic period and back to those hectic scenarios, it is necessary to have some reminders around us which remember us to slow down and think and refresh. Like Helen Keller said, I long to accomplish the great and noble task, but it is my chief duty to accomplish small tasks as if they were great and noble. Yes Every small thing we do has importance in building a person and nature. Through THE PARCO PIANO." we bring a landscape intervention in the busiest region of Milano, where highways, the highspeed railways pass through, and the place where you see no people and nature. The projects bring a reminder for all busy people around the space to slow down a bit. think and move. Observe, compare, and realize the speed of life around us and the space we are within. We introduce a curve of slowness which inspires people to move on a slow pace rather than in a hectic way. The natural elements are reduced with seasonal changes of trees and plants to create pause points to think enjoy and move.

MASTER PLAN



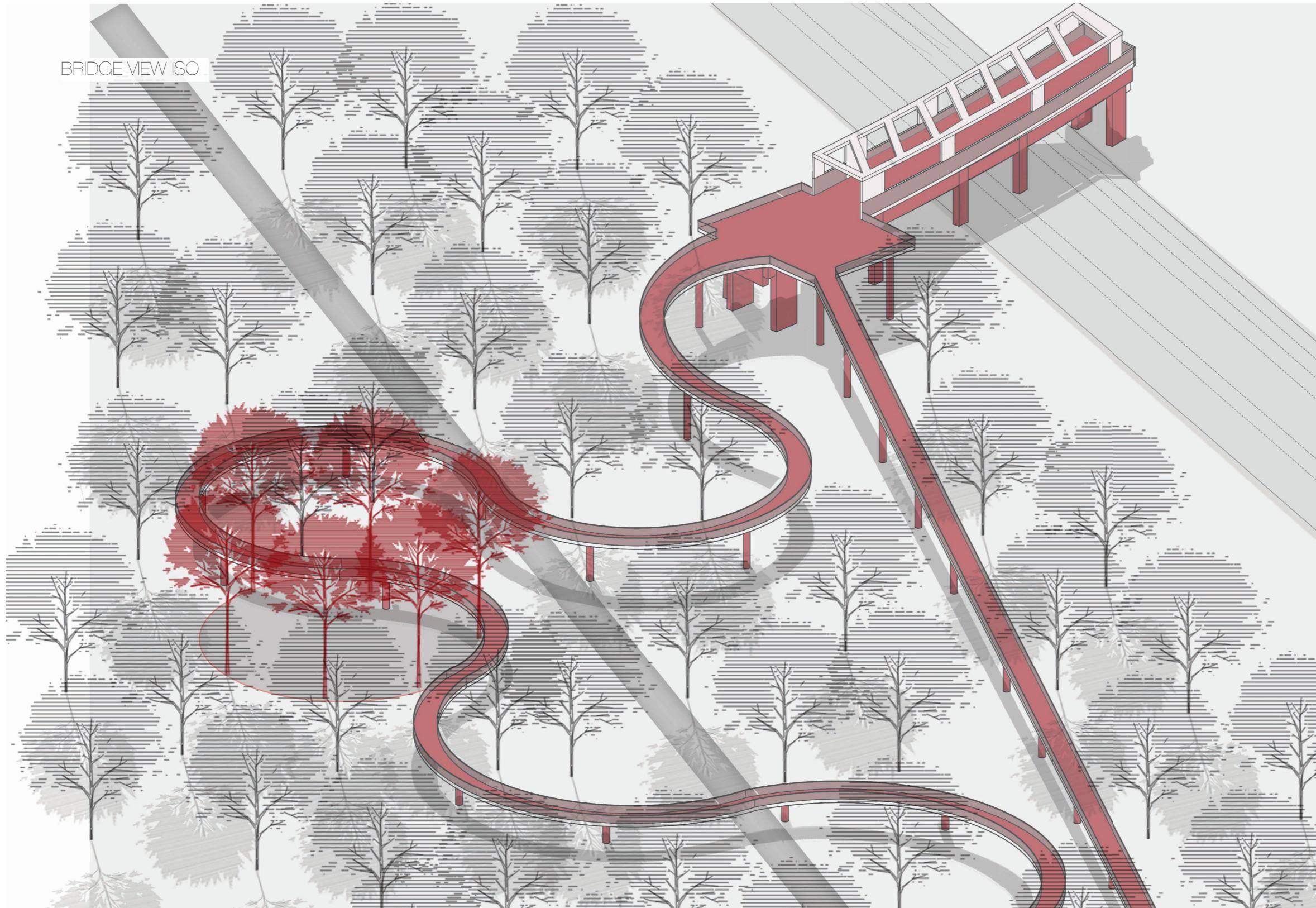
DESIGN PROCESS



■ ■ PARCO PIANO

ISOMETRIC VIEW

■ ■ PARCO PIANO

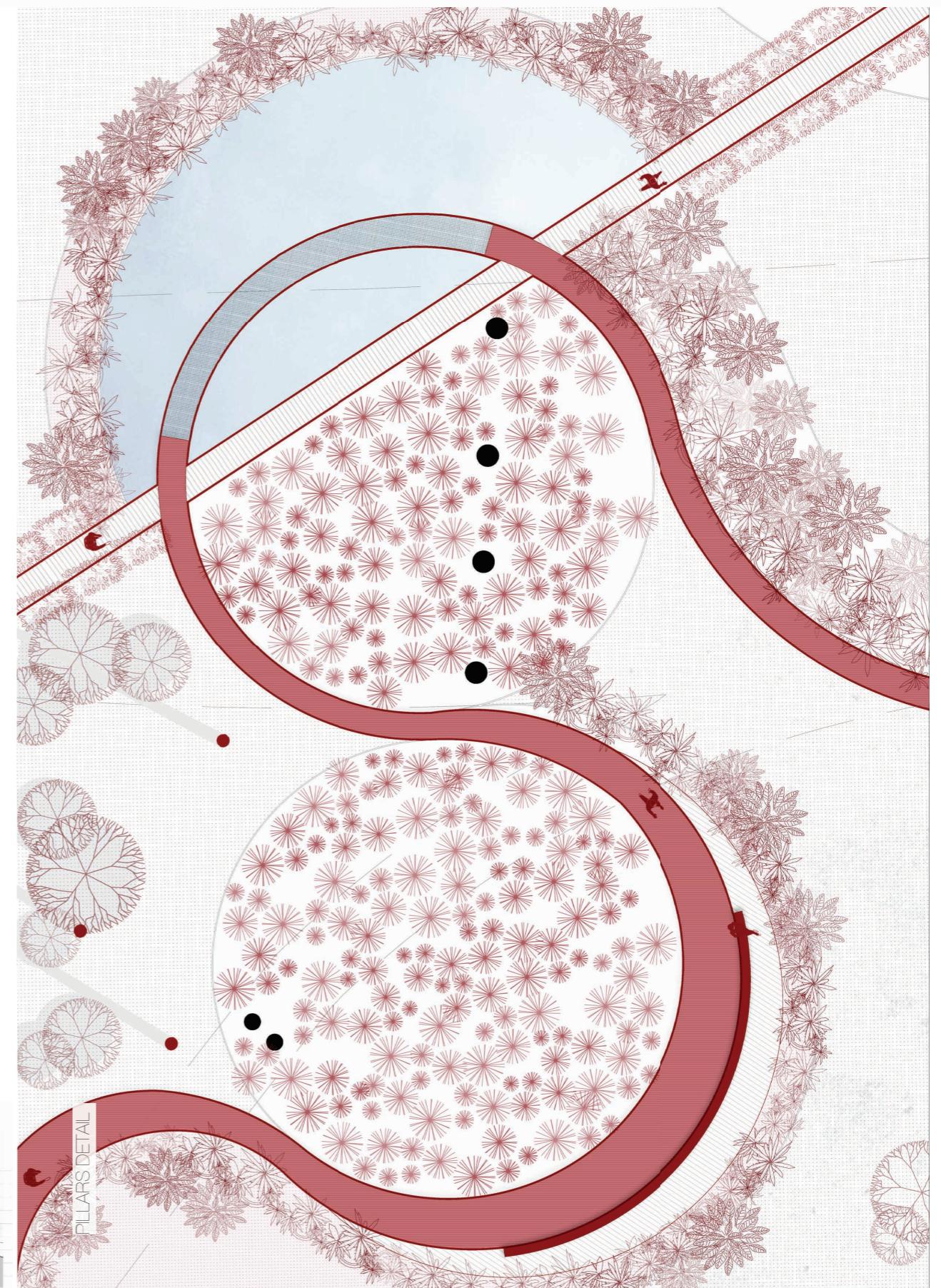
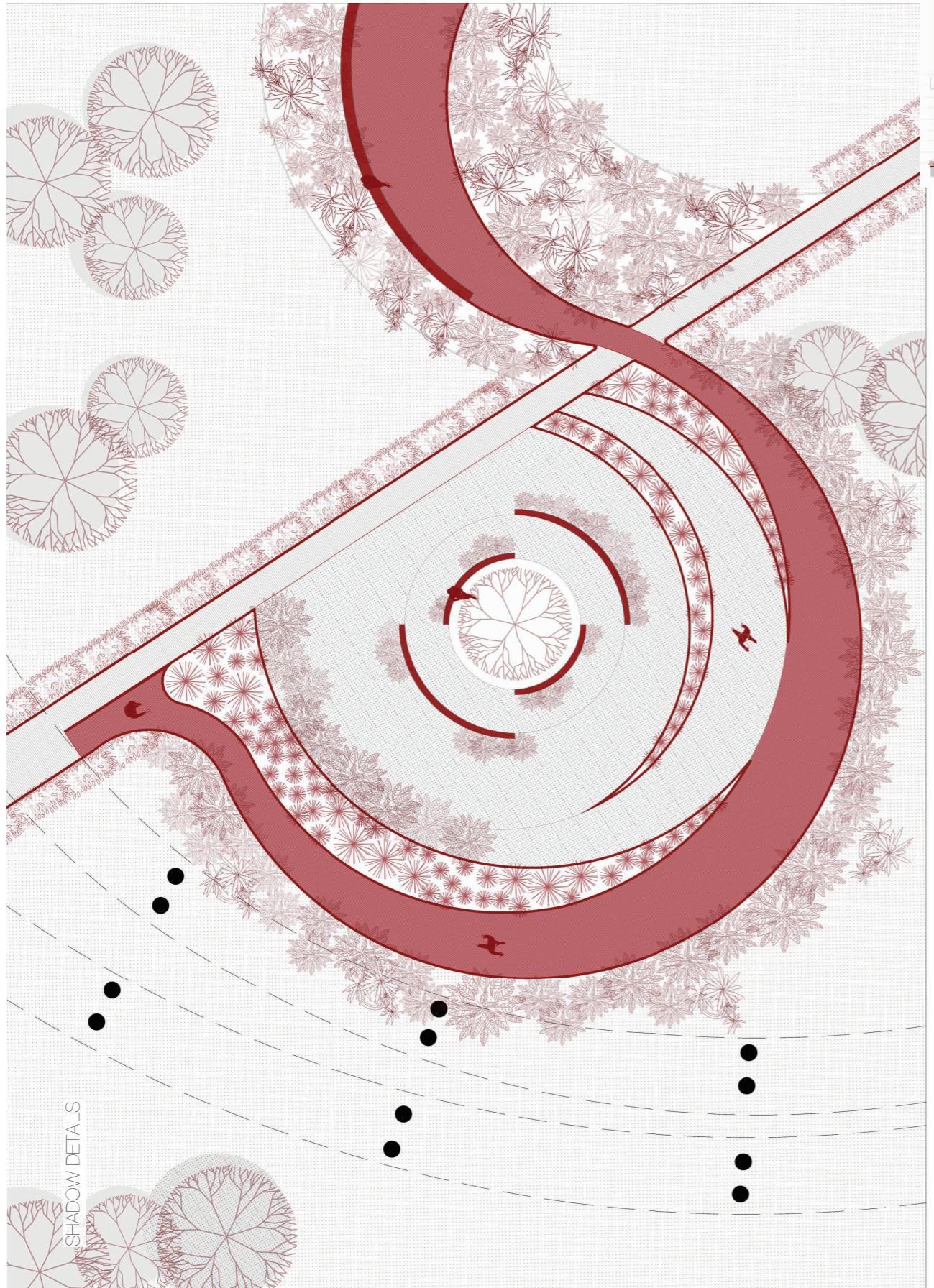


This is our main element of the project for the interruption, as this bridge will act as the view point for the country side landscape. There are two connections to this bridge one is straight line which brings directly people to this view point those who are in hurry and other the main curved one is to stop and enjoy the nature, slow, spend time and have view of seasonal flavor of vegetation etc.



DETAIL 1 - The Shadow Park

■ ■ PARCO PIANO



DETAIL 2 - Around the Green

VEGETATION DETAILS OF THE PROJECT

As vegetation is a key element in the landscape we planned it according to seasons as "SEASONAL FLAVORS" so for that we have selected specific vegetation according to each seasons.

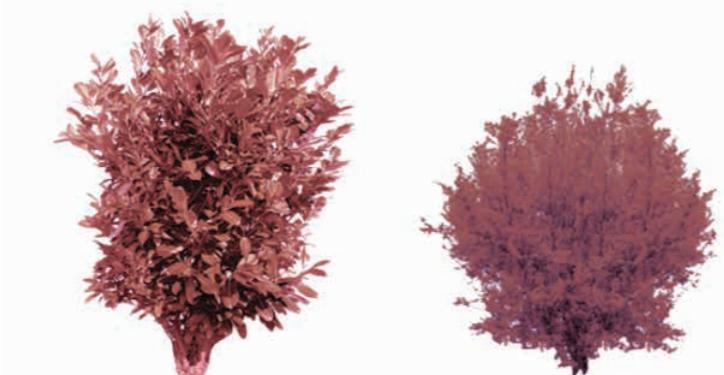


For the SPRING - Trees like *Prunus avium*, *Prunus serrulata*, *Magnolia soulangeana*, *Cercis siliquastrum*.

For the AUTUMN - *Ginkgo biloba*, *Quercus rubra*, *Acer spp.* *Liquidambar spp.*



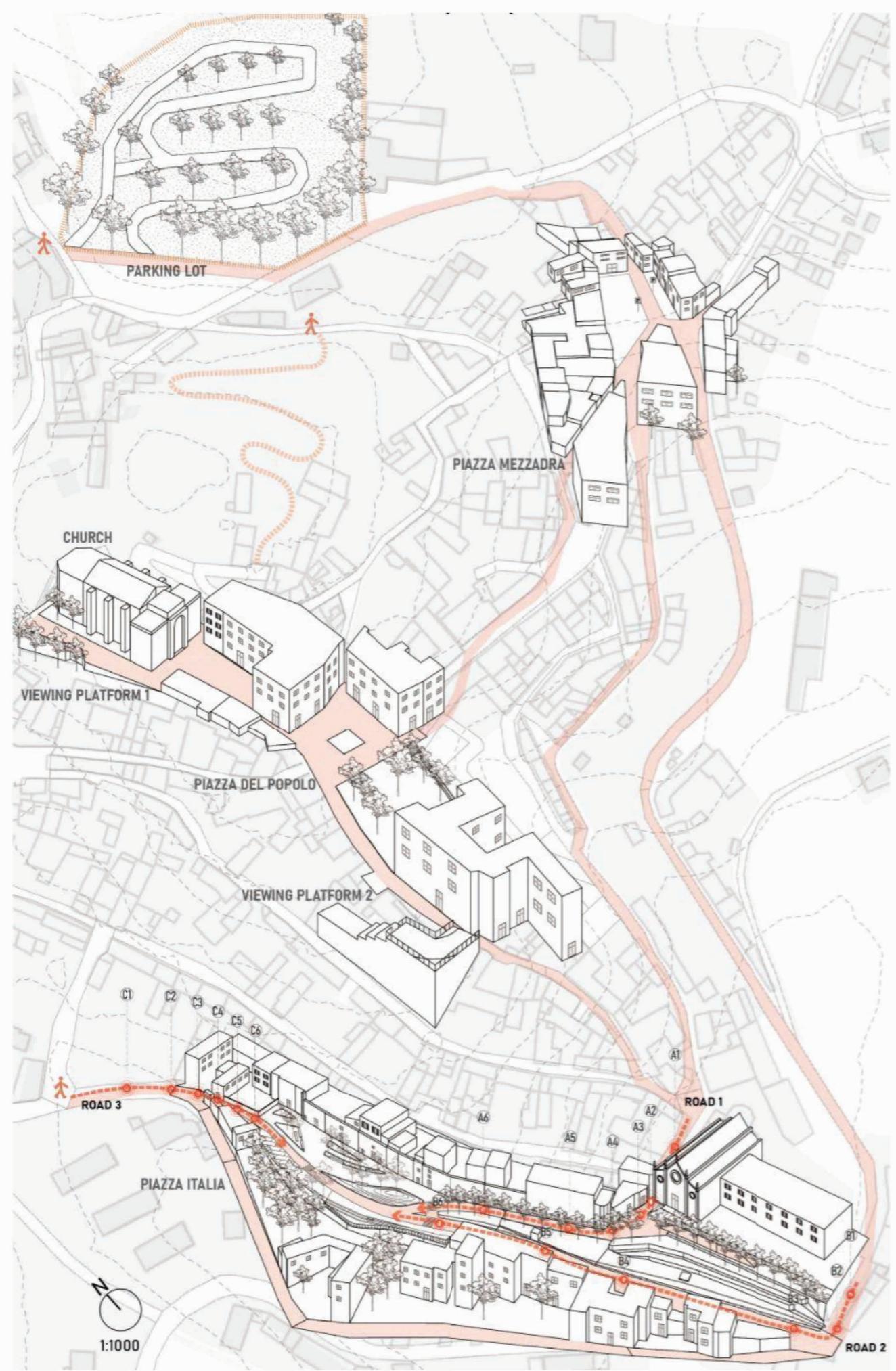
Evergreen conifers provide both winter and summer energy conservation benefits. The coniferous we have selected is *Cupressus sempervirens 'Stricta'*, *Cupressus glabra*, *Taxus baccata*, *Taxus baccata 'Fastigiata'*, *Juniperus squamata*,



We also have shrubs that show variation in its leaves in autumn and flowers in the spring. Like *Forsythia spp.* *Crataegus monogyna*, *Crataegus laevigata*, *Chaenomeles speciosa*.

Grasses and Riparian buffer play a key role near the wetlands, so that we have plants like *Cyperus strigosus*, *Peltandra virginica*, *Sagittaria latifolia*, *Miscanthus sinensis* and *Papaver somniferum* as a meadow.





2. THE REVIVAL OF VIGNALE MONFERRATO

Location: Vignale Monferrato, Piedmont, Italy
Collaborator: Maurya, Xu Chenxuan, Tan Xuyan, Zhu Lixuan, Pan Yue, Erfan Rhabarzare
Institution: Politecnico di Milano
Studio: Built Environment and Landscape Design Studio
Instructor: Prof. Fontana Carlotta, Prof. Mastropirro Roberta, Prof. Toselli Irene

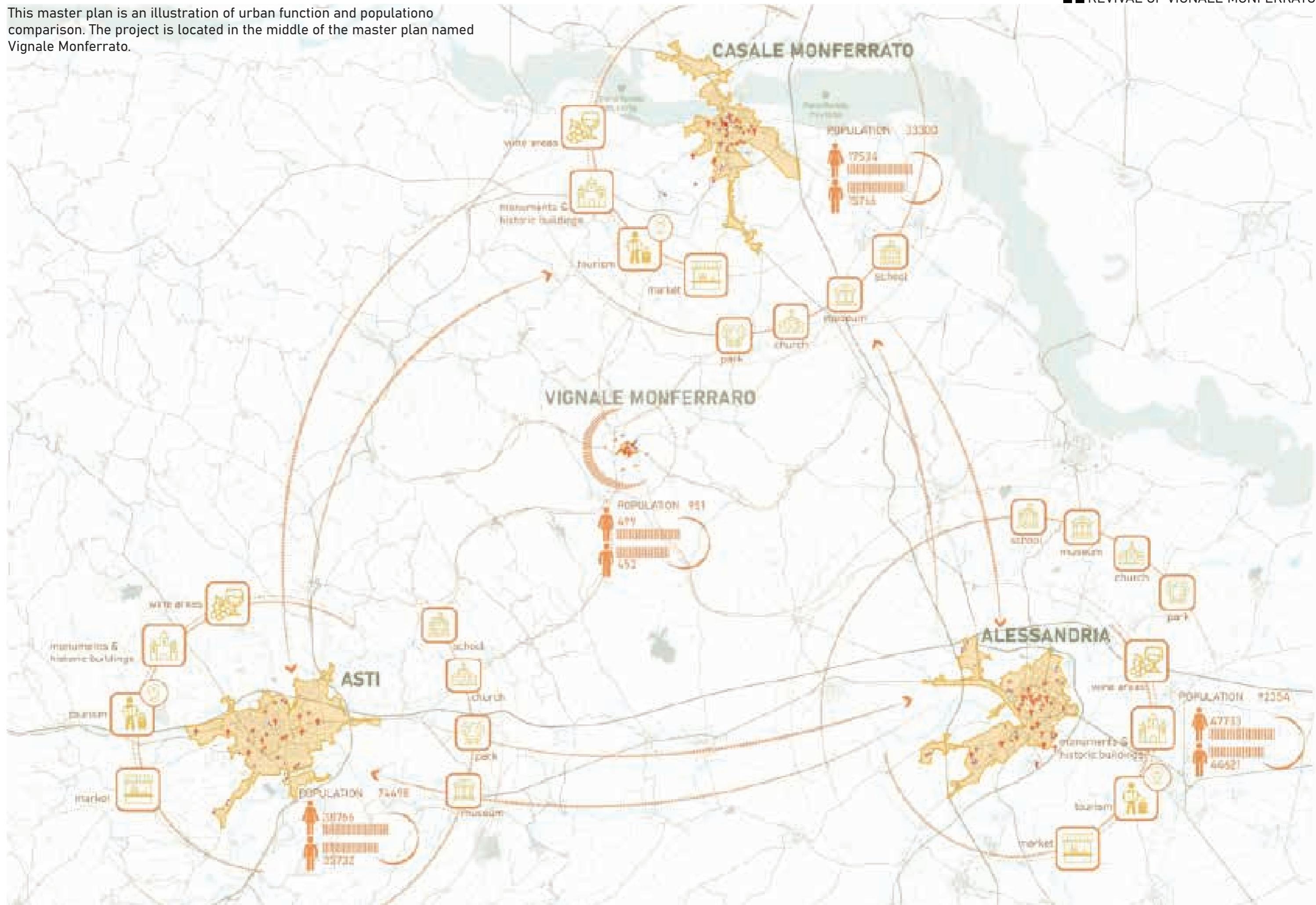
Project Scope

The project has been done with the purpose to propose connectivity between high potential areas and creating an atmospheric image for tourism and visitors to this place so that when they will visit this area they can have a wonderful image in terms of spending their time. The focused design area is Piazza Italia, located in the southwest of the village. The design proposal has upgrades and set some plans for the public and introduced the Piazza as a new public space.

ANALYSIS

REVIVAL OF VIGNALE MONFERRATO

This master plan is an illustration of urban function and population comparison. The project is located in the middle of the master plan named Vignale Monferrato.



SECTION of this project was more of a technical drawing to show the dimension of the trees and the lenght of the site and it is used to have simple drawings for better understanding.

The MASTER PLAN of the site has been designed in a proportion to the Piazza considering different elements like form and shadow because one thing which is very important in the design is the sunlight direction in the site which is bothering so a design must include different types of shadings and plus to give a good look to the area considering a very sensible plantation of trees and plants is a booster to the area.

SECTION



MASTER PLAN



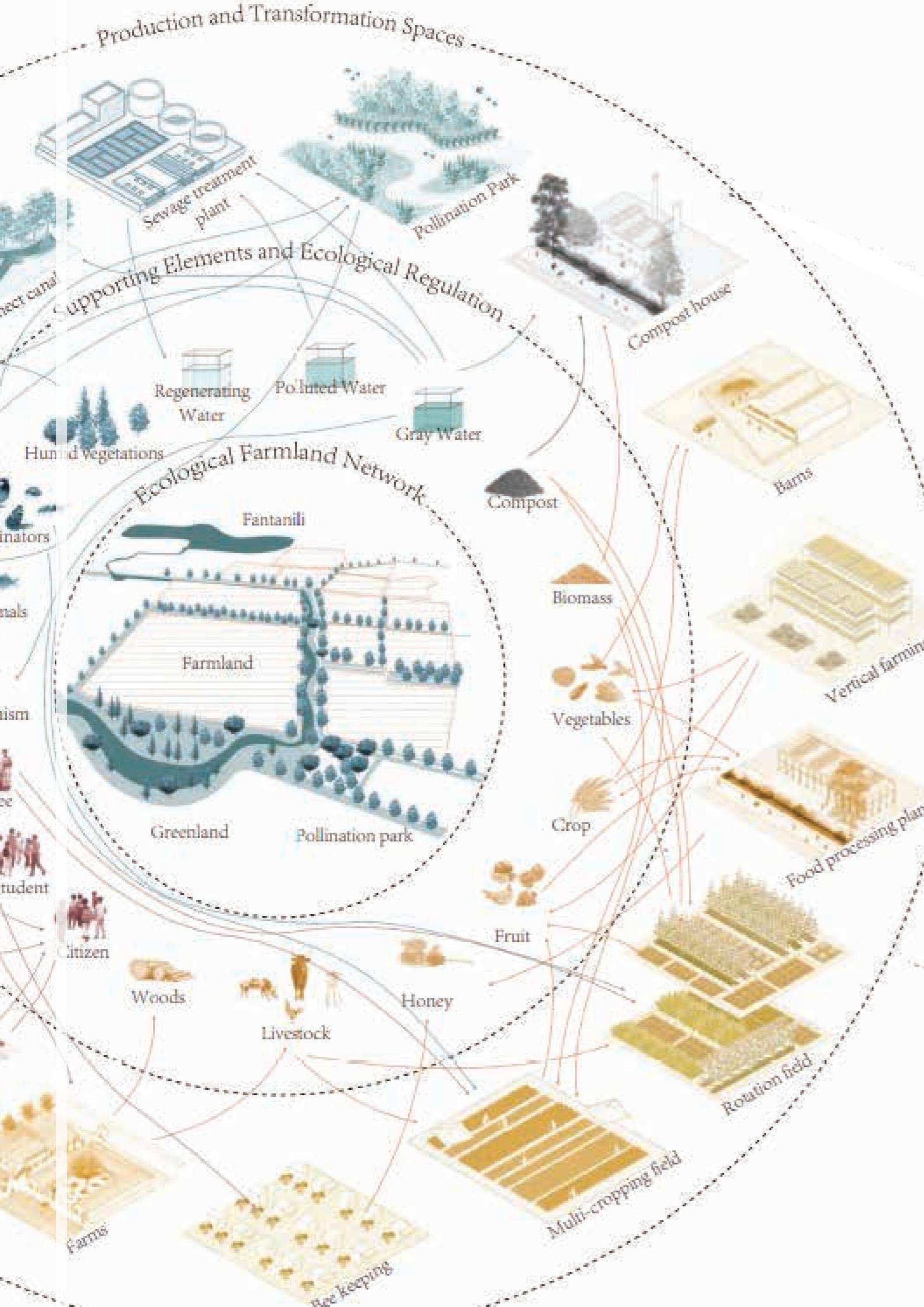
PHOTO COLLAGES



New trees and shade have been planted for people who want to walk inside the Piazza and want to spend their time walking their dos or sitting in the area just to get some freshness.



A new side walk has been considered along the panoramic view of the Piazza so plus walking you won't feel alone and can enjoy the landscape view.



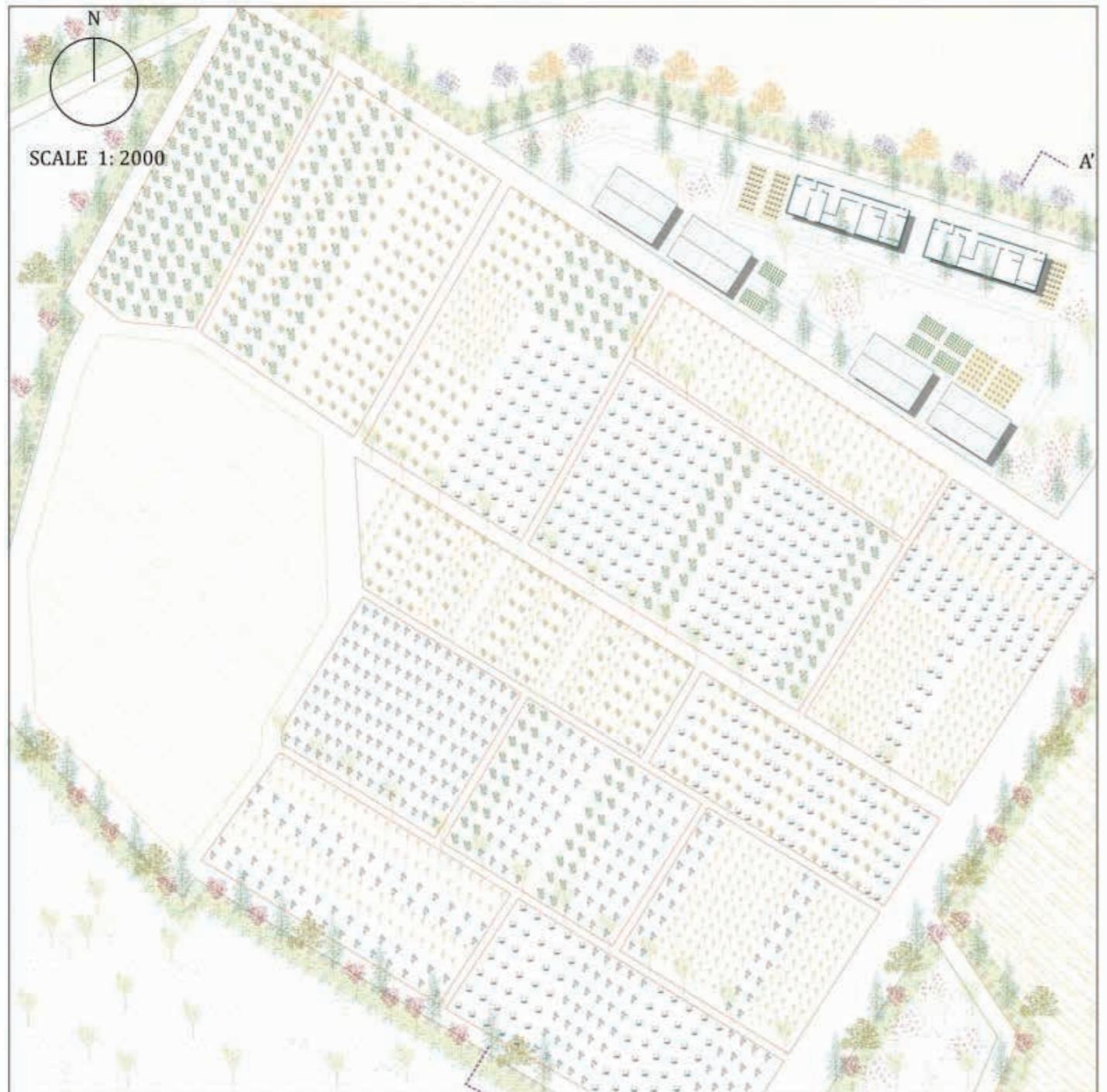
3. THE PRODUCTIVE AGRICULTURAL SOIL

Location: Milan, Lombardia, Italy
 Collaborator: Sumanth Maurya, Tao Yutian, Wang Hexuan, Zhou Yutong
 Institution: Politecnico di Milano
 Studio: Open Space System and Park Design Studio
 Instructor: Prof. Antonio Longo, Prof. Andrea oldani, Prof. Gabriele Cola

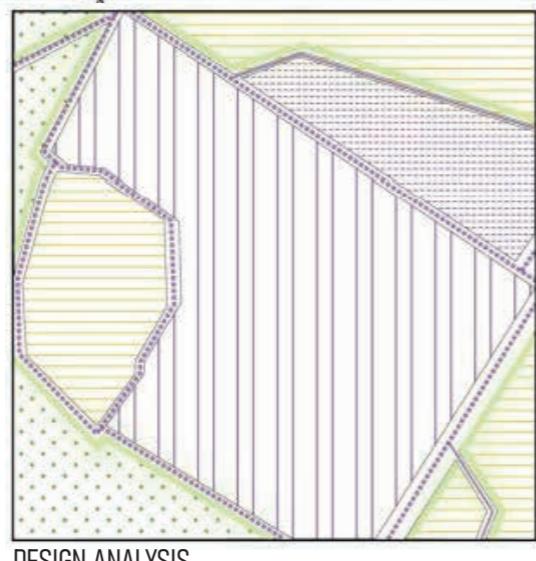
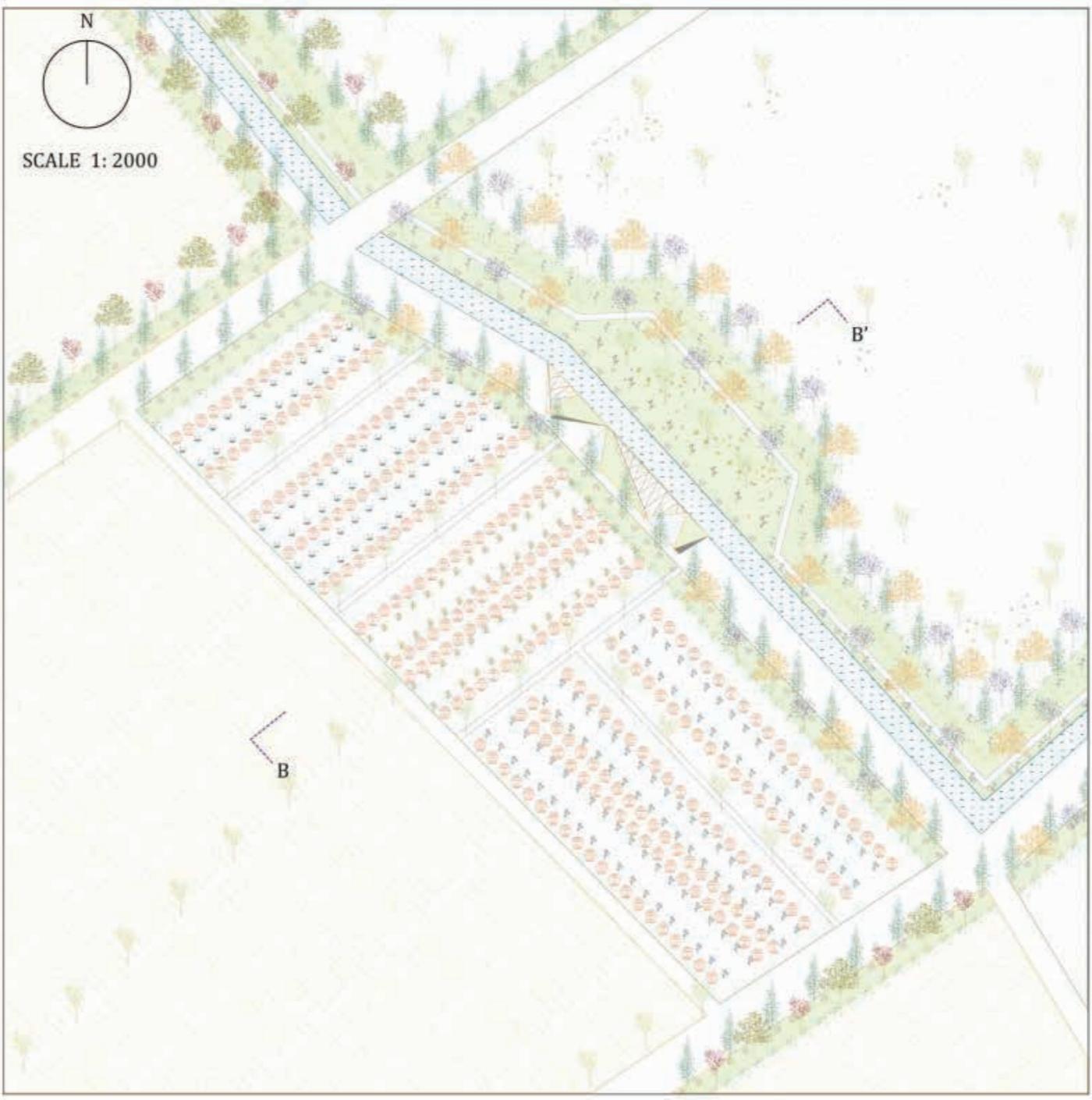
Project Scope

Farmland in the south, is the Milan's main source of food, but the problem of abandonment cannot be ignored. A fertile soil contains an adequate supply of all the nutrients required for plant growth. Global agricultural activities cause a lot of green house gas emissions. Soil is an indispensable help for climate protection. This project has been developed as a Farming Net which connects the all types of farming in a sustainable way.

MASTER PLAN



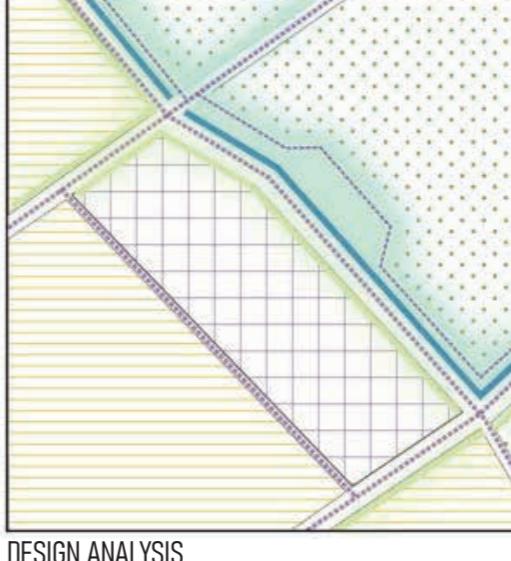
MASTER PLAN - ZOOM IN



- Road
- Eco-Corridor
- Tree-Line
- Water
- Pollination Park
- Green Space
- Agriculture

SATELLITE IMAGE

DESIGN ANALYSIS

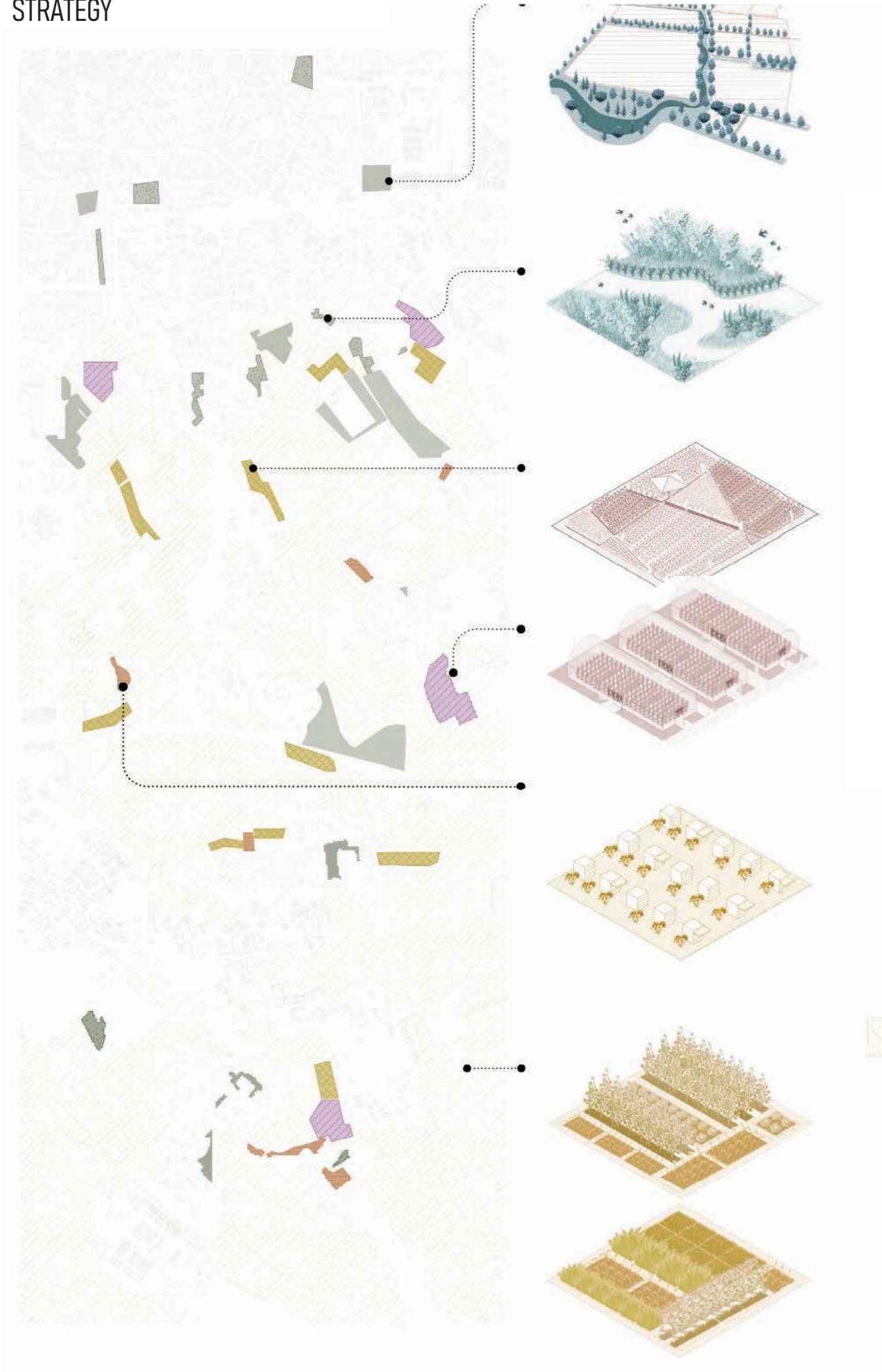


- Road
- Canal
- Road Eco-corridor
- Canal Eco-corridor
- BeeKeeping
- Green Space
- Agriculture

SATELLITE IMAGE

DESIGN ANALYSIS

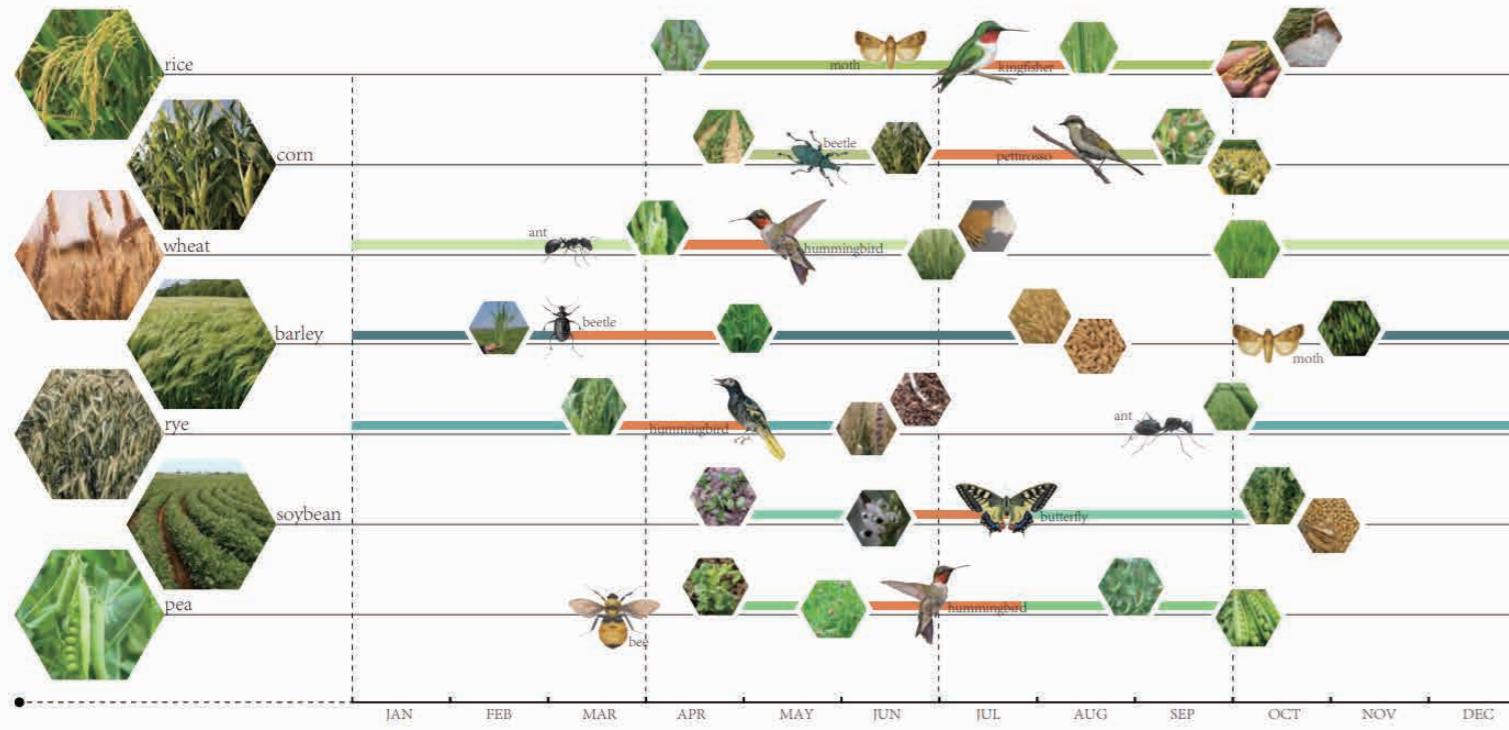
STRATEGY



SECTION

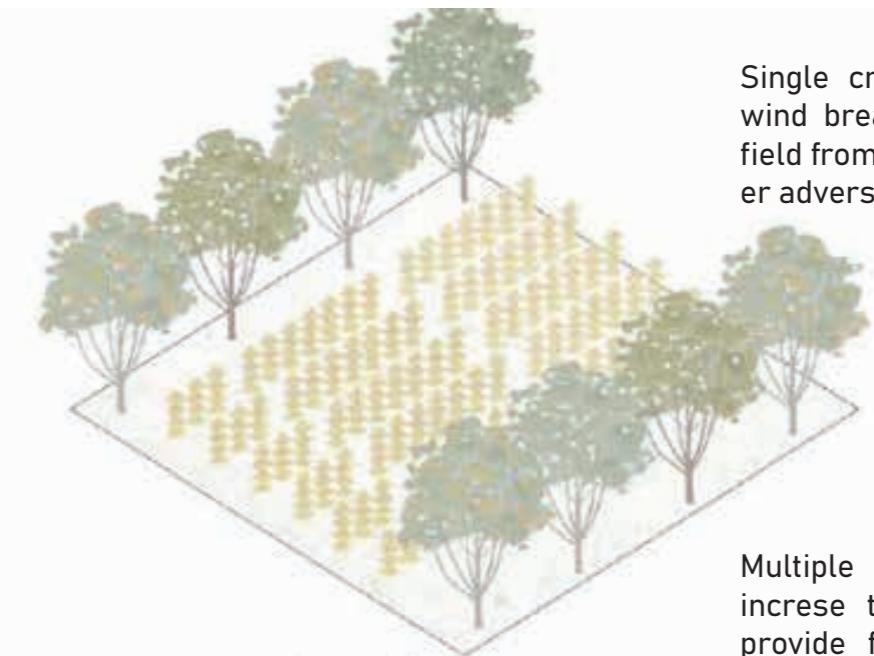


POLLINATION CROPS AND POLLINATOR

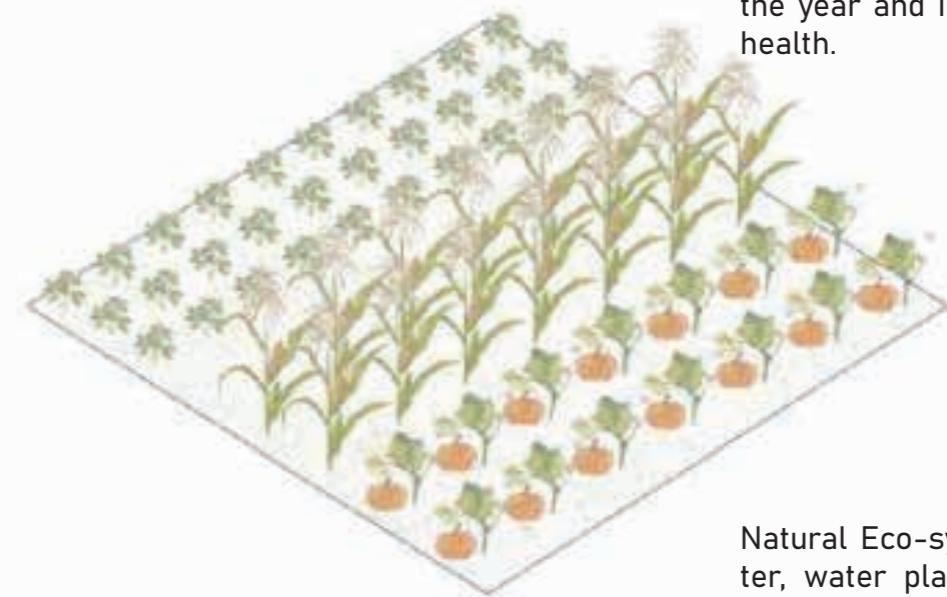


Crop production and honey production depend on the right type of pollinators. Different crops with their pollinator and their pollination period.

VEGETATION DESIGN



Single cropping system with wind breakers to protect the field from heavy wind and other adverse climatic conditions.

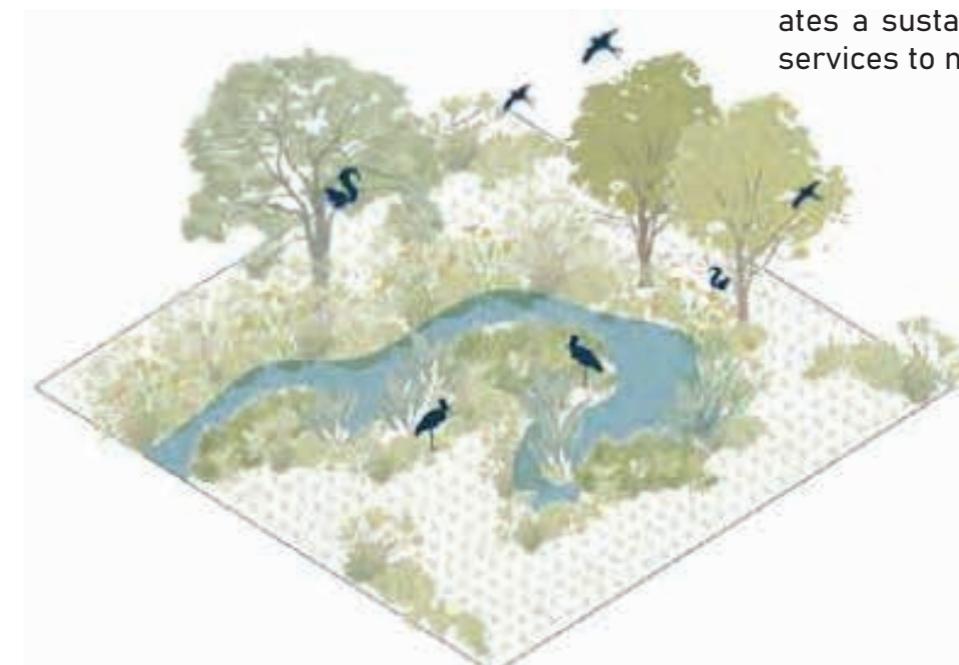


Multiple cropping system to increase the productions and provide food grains through the year and improve the soil health.

PHOTO COLLAGES



Agriculture park provides multiple services apart from food productions like eco-tourism, ecosystem services, educational & experimental fields to school kids, evening walks, fresh air, relaxation and many other leisure activities.



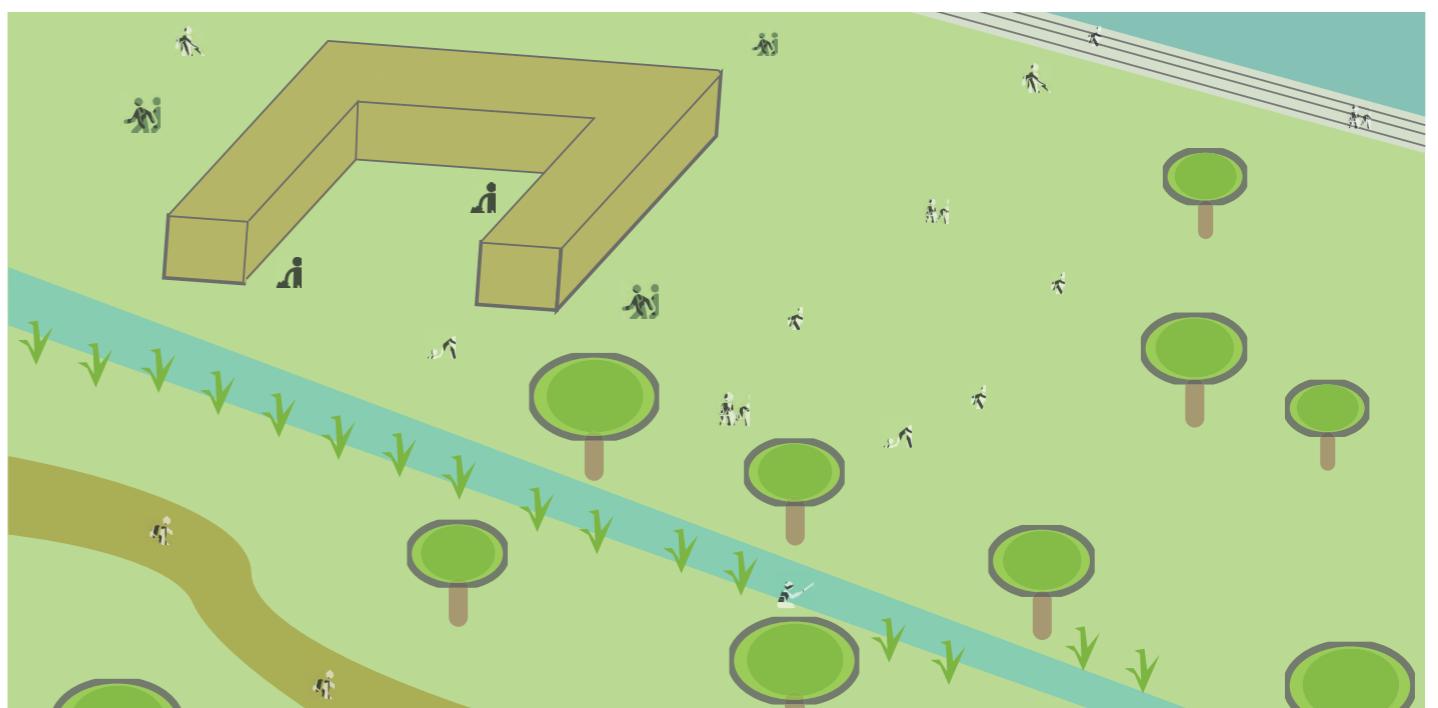
Natural Eco-system with water, water plants, water animals, and other animals creates a sustainable ecosystem services to nature.

4. FOLLOW ME THROUGH CHIESE RIVER

Location: Milan, Lombardia, Italy
Collaborator: Sumanth Maurya, Maria Stella, Anu Babu, Roniya Roy
Institution: Politecnico di Milano
Studio: Landscape Infrastructure and Design Studio
Instructor: Renzo Rosso, Sara Gangomi, Maria Alessandra Secchi

Project Scope

We propose an integrated action between the river, the green spaces, and the agricultural spaces. Other than Nature and Society, that are the main themes of the course, we add Infrastructure as a theme of our project. the infrastructure will be both green, blue and gray, because the paths will be connected with new pedestrian pathways, that could raise the attractivitie of the park.



AGRIHUB PARK - MASTERPLAN



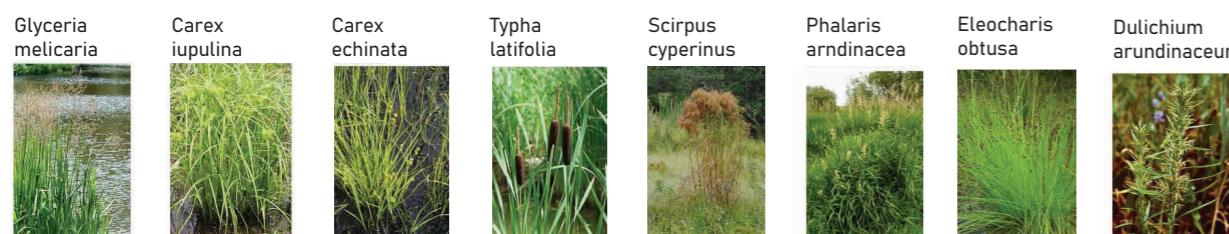
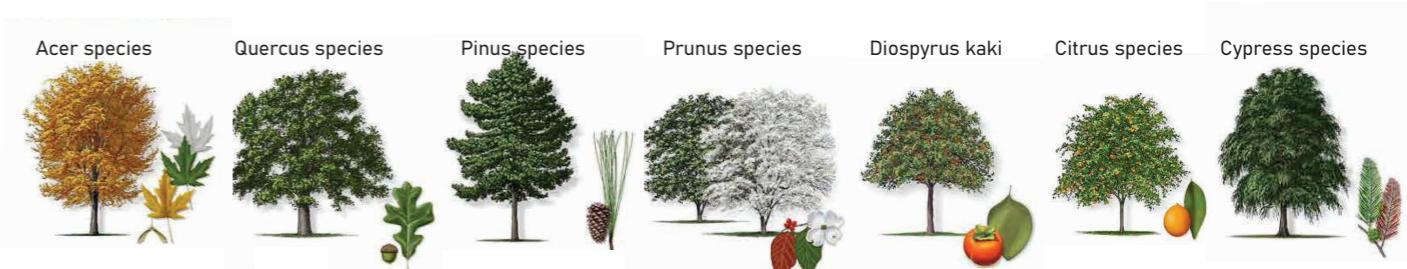
MASTERPLAN WITH FUNCTIONS



INTERSECTION PARK - PROTECTED WETLAND



INTERSECTION PARK - SENSORY GARDEN



5. HORTICULTURE

BACHELOR'S OF HORTICULTURAL SCIENCE

Horticulture provides a major source of the beauty in and around the homes, cities, parks, highways, golf courses and other public areas. Landscape is incomplete without the proper senses of horticulture knowledge. So, one can take advantage of horticulture and landscaping together.



Practicing of Grafting in *Anacardium occidentale*



Village map to demonstrate the vegetation of Vedullapalli village.



Installation of window and bottle gardening



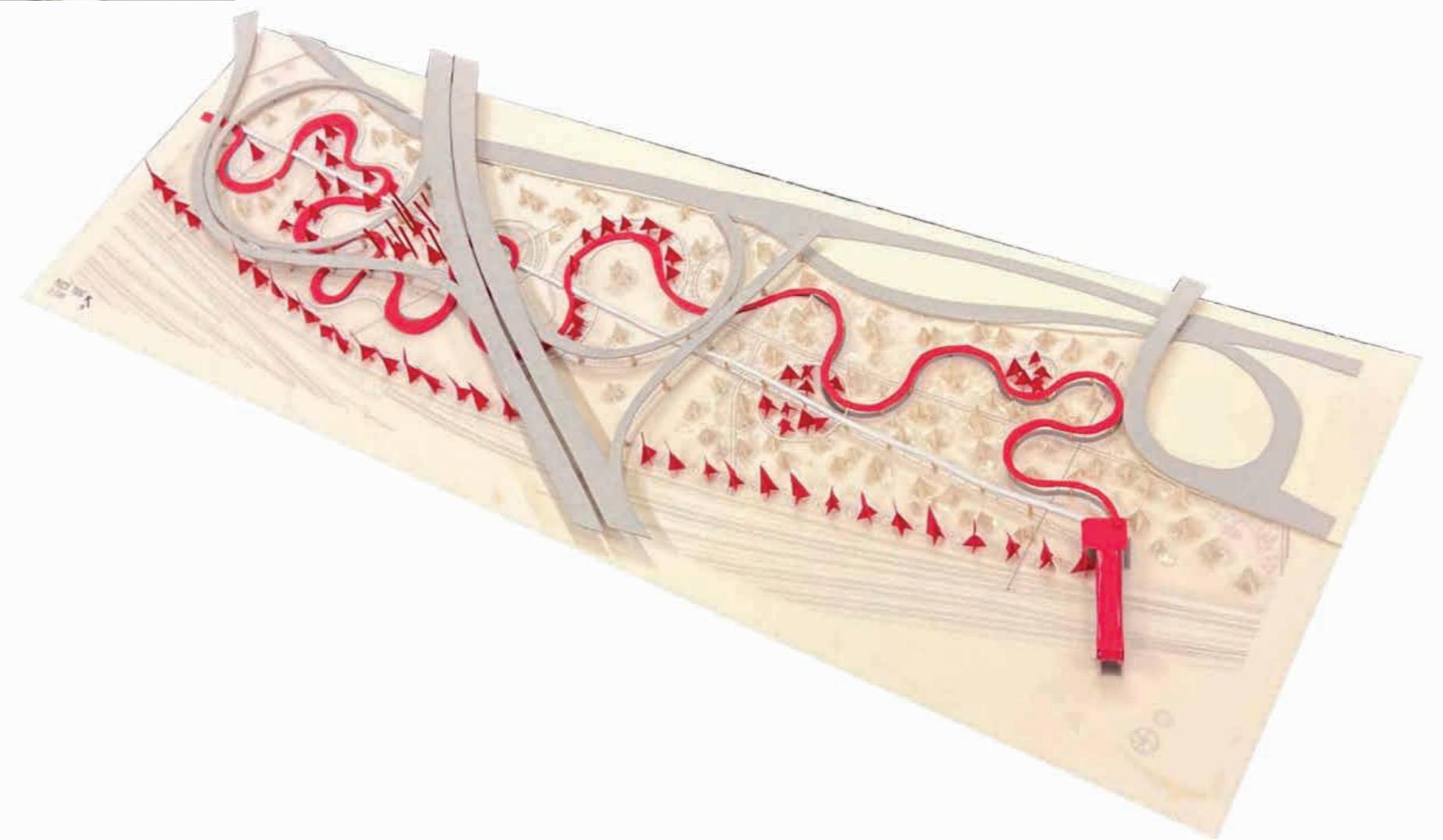
Preparation of garden in my hostel premises

6. MODEL AND WORKSHOP



MODEL

Model helps clients and investors to imagine how the design looks like in reality, it allows everyone to engage with the design of spaces and contribute to the creative process.



WORKSHOP 1 - DESIGNING ABANDONED VILLAGE IN THE APENNINES

A 5 days of workshop - Design of the architecture and space first provides a platform for retrospecting the value of history, bringing the tools and daily necessities that have been left in memory back of "Ebbio"; secondly, it creates new space for new rural lifestyle like "Slow Tourism, Self sufficient agricultural production, Wilderness and Seasonals flavors."



Certification of the work issued by Politecnico di Milano



Abandoned house at Ebbio Before



After



Group photo at Ebbio, Bettola, Piacenza Italy



Explanation of Proposal to municipality and local people

WORKSHOP 2 - PROJECT MANAGEMENT

Project management plays a central role in the vision of companies that implement projects in all economic and industrial sectors. Today, the control of variables such as time/cost/quality ratio is also a central aspect in the various processes that characterize the design and the construction of architectural & landscape works.



WORKSHOP 3 - CONNECTING WITH MOTHER NATURE

By Sara Simoska, Milan Design Week 2022

Project management plays a central role in the vision of companies that implement projects in all economic and industrial sectors. Today, the control of variables such as time/cost/quality ratio is also a central aspect in the various processes that characterize the design and the construction of architectural & landscape works.



Team with models near the Bosco Verticale, MILAN

7. OTHERS

NATURE'S VISIT

BOOKS and INTERNET are not enough to taste the nature of landscape. I love to visit plant nursery and nature based locations to extend my knowledge and experience over it.



Kadiyam Nursery - Rajahmundry, India



Sanjay Nursery - Pune, India



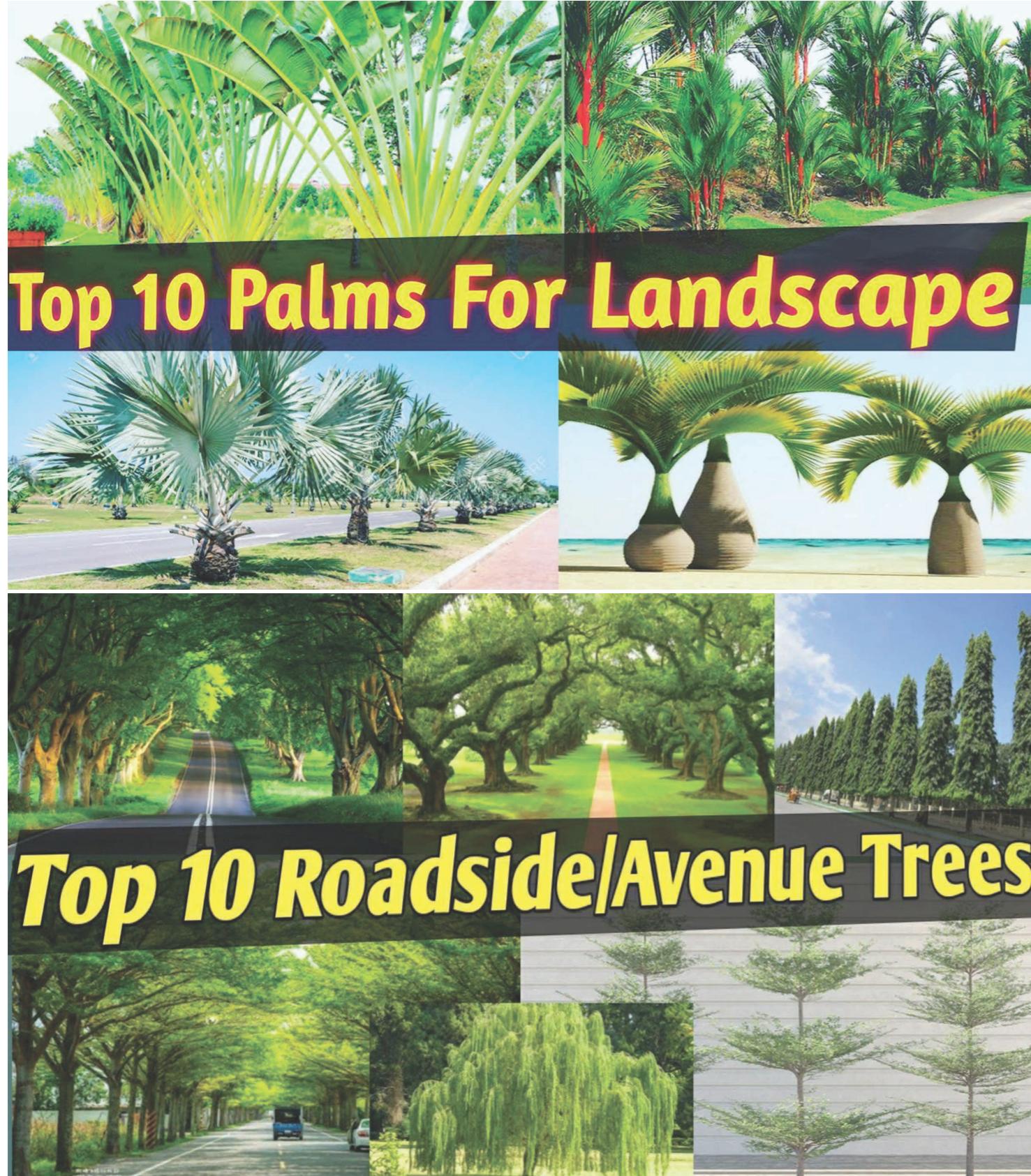
Understanding the formation of mountains, rocks and lake at Monte Stressa, Italy



Imported Victoria amazonica from Thailand to India at Kadiyam Nursery, India

SOCIAL MEDIA

Social Media has become predominant in both our personal and professional lives and organizations across sectors are beginning to take advantage of social networking sites.



It was October 2019 during my visit to Pune's historical Shaniwarwada Fort. From there the idea of YouTube germinate in my mind to capture the new plants and utilize them in the future, which improves my knowledge and helps to number of plants lover over a period of time.



I am fond of regular traveller and visiter to different parks, gardens, plant nursery and public spaces etc. Through Instagram, I share pictures, videos of those new & unique plants and places and explains masses about various features, facts about them. It gives me a space to import knowledge about plants & nature of different locations.

MAURYA SUMANTH MANI
@NATUREBOY