

NETWORK OF PLACES

Country / City Italy / MANTOVA
University / School Politecnico di Milano, Polo Territoriale di Mantova, Master of Science in Architectural design and history
Academic year 2019/2020
Title of the project Network of Places
Authors Piotr Hardt - Giorgio Camurri - Raffaele Dongili - Carlota Marijuán Rodríguez

TECHNICAL DOSSIER

Title of the project	Network of Places
Authors	Piotr Hardt - Giorgio Camurri - Raffaele Dongili - Carlota Marijuán Rodríguez
Title of the course	Planning in historical context studio
Academic year	2019/2020
Teaching Staff	Carlo Peraboni, Chiara Lanzoni, Chiara Giacomelli, Sara Negrelli, Francesco Varesano
Department/Section/Program of belonging	
Dastu - Dipartimento di architettura e studi urbani	
University/School	Politecnico di Milano, Polo territoriale di Mantova, Master of Science in Architectural design and history



Written statement, short description of the project in English, no more than 250 words

The context of the project is located in an important agricultural area of the province of Mantua, rich in history: dominated by the Gonzaga family and before that by Matilde di Canossa, one of the most important figures of the Italian Middle Ages. The context is also characterized by the Po river, the main Italian river, and its nature. Building a network of places is the strategy that gives the name to the project and has as its main objective the creation of networks and links between the different elements of the context: neighborhood centers, cycling path, architectural heritage and historical buildings, agricultural landscape, waterway network, high biodiversity areas. Building a network of places to preserve the elements of the traditional agrarian landscape that created a unique relationship between Man and Biosphere in the Valley of Po river. How to achieve the aim with a sustainable approach? Creating walkable sustainable towns and preserve agricultural land, containing the urban sprawl, re-define the relationships between town and nature, upgrading industrial areas, improving the efficiency of infrastructural networks and promoting the intermodal transportation system, controlling the impact of the industrial and quarries areas, converting of derelict farmhouses, concretizing a continuous green network and linking isolated ecological elements, planting new forests in the floodable areas to absorb CO2.

For further information
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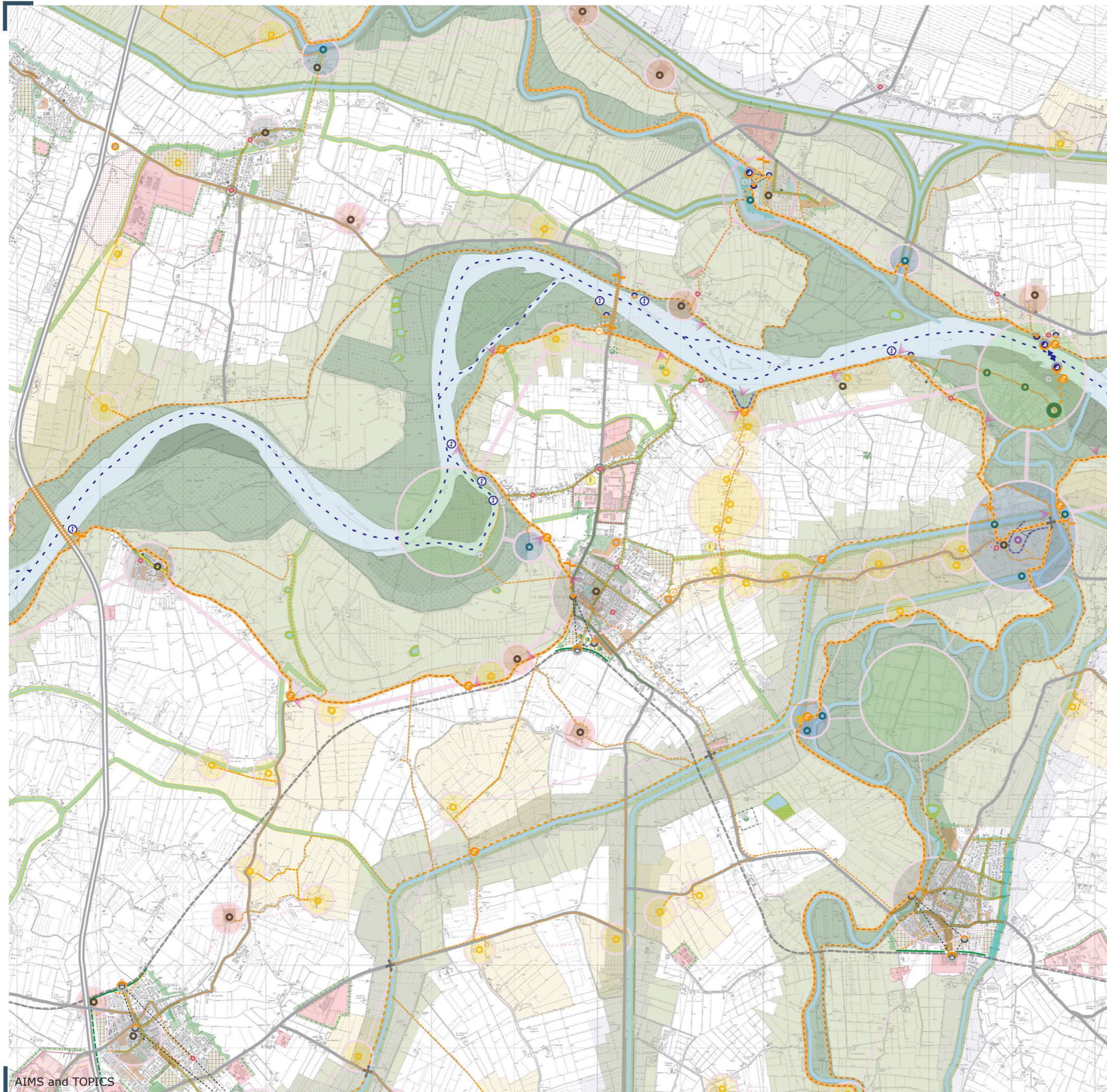
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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020
SCHOOL PRIZE



AIMS and TOPICS

NETWORK OF PLACES



HIGH PERMANENCE AREAS



Both the agricultural fields and infrastructure maintained their historical layout.

MEDIUM PERMANENCE AREAS



Area maintains the main land divisions and infrastructure but new subdivisions are added inside

LOW PERMANENCE AREAS

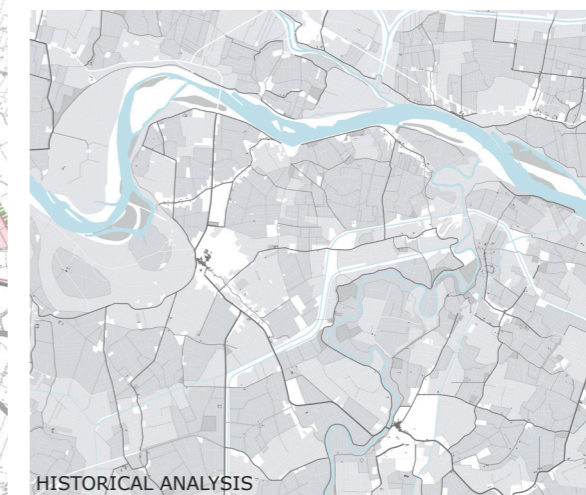


The area maintains some historic infrastructure, while most land divisions are new

NO PERMANENCE AREAS



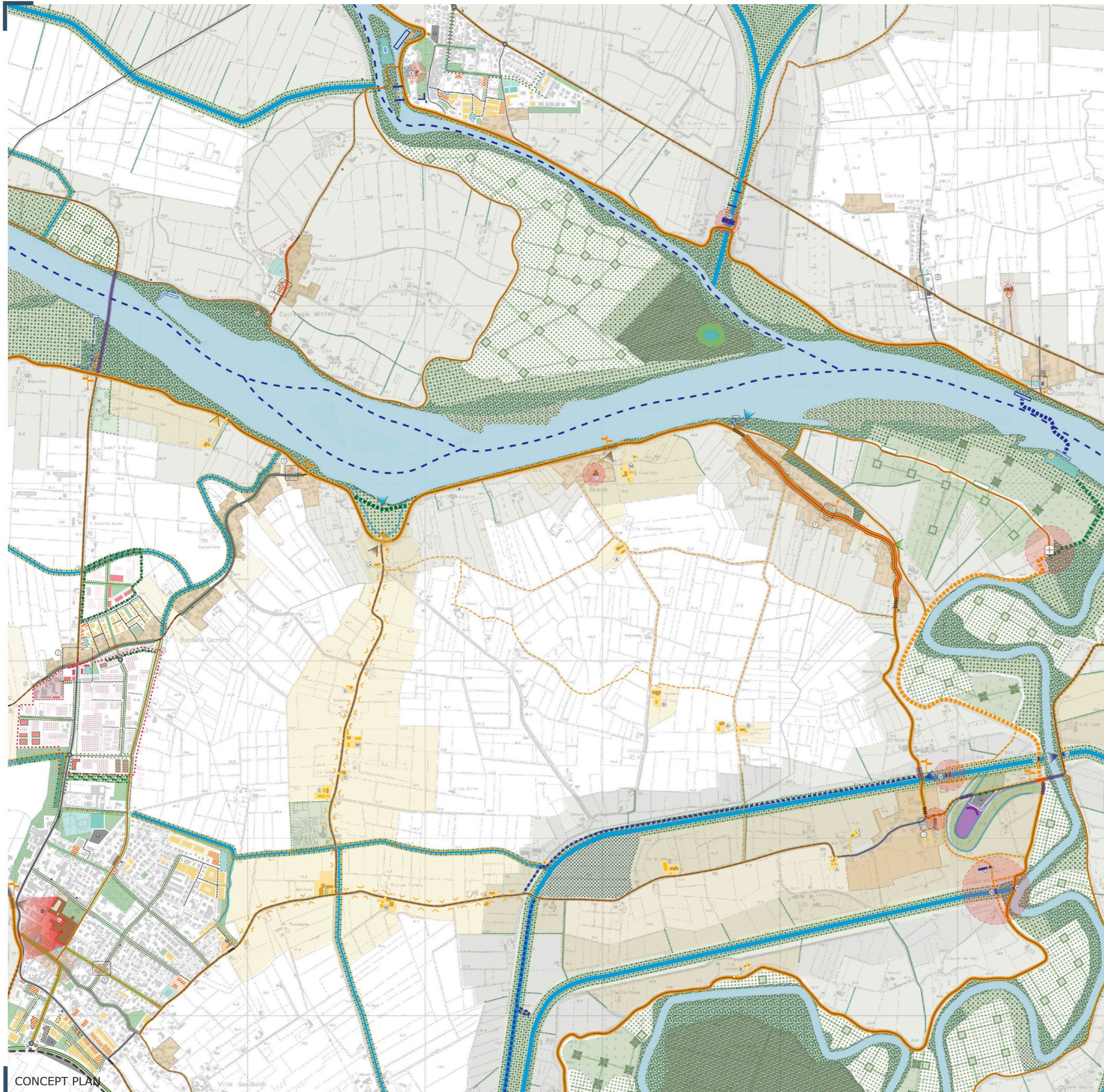
The town of San Benedetto has expanded beyond the historical limits, completely changing the image and the features of the landscape.



HISTORICAL ANALYSIS



NETWORK OF PLACES



ENVIRONMENT

PRIMARY GREEN CORRIDORS	SECONDARY GREEN CORRIDORS
<ul style="list-style-type: none"> Planting of white willows, black locust and poplars to create new areas of riparian vegetation along river and channels Planting of pioneer species along the sand banks of the Po Planting of white willows and black locust in existing poplar plantations to link them to riparian vegetation areas Replacement of the weaker poplars in abandoned plantations with oaks, elms and white mulberry trees in order to form a stable forest Experimentation with the creation of wild pockets of nature within existing poplar plantations through the establishment of a network of clearings where native flora can grow spontaneously Planting of oaks, elms and mulberry trees as biodiversity pockets within the existing poplar plantations New sustainable poplar plantation Creation of wildlife refuge areas for native fauna Areas in which to favor the natural formation of the undergrowth and growth of hawthorn shrubs, an uncommon species which needs assistance to re-establish its role within the Po ecosystem 	<ul style="list-style-type: none"> Planting of riparian vegetation areas along major channels Planting of linear riparian vegetation along minor channels
NODES OF THE ECOLOGICAL NETWORK	
<ul style="list-style-type: none"> Planting of oaks, elms and mulberry trees to start a stable forest Planting of white willows, black locust and poplars to create riparian forests Marshland vegetation around bagni 	
BUFFER AREAS	
<ul style="list-style-type: none"> Low impact, sustainable agricultural areas, such as organically-grown vineyards, orchards, walnut trees and meadows Planting of new lines of trees along local access roads and significant land divisions to enhance the interaction between the green corridor and the territory 	

LANDSCAPE

ARCHITECTURAL HERITAGE
<ul style="list-style-type: none"> Conservation of Historical Buildings and Monuments Conservation of monument's curtilage to maintain its setting and perception Conservation of original access roads of historical properties Information panel about the historical building, in order to explain its relevance and visually connect it to the network Viewpoint of Historical Buildings and their context
AGRICULTURAL LANDSCAPE
<ul style="list-style-type: none"> Restore the old farms to give them new functions Control the aesthetic of the contemporary buildings to not clash with the old rural farms Conservation of Historical Farm Complexes Reintroduction of old traditional cultivation around the historical farms, on High Permanence Fields as "plantata padana" (a system of trees and grapevines). Preservation of High Permanence Roads to connect farmhouse to the road network Scenic Path through agricultural fields Viewpoint of Historical Farm Complexes and their context Information panel about the farmhouse, in order to explain its relevance and visually connect it to the network

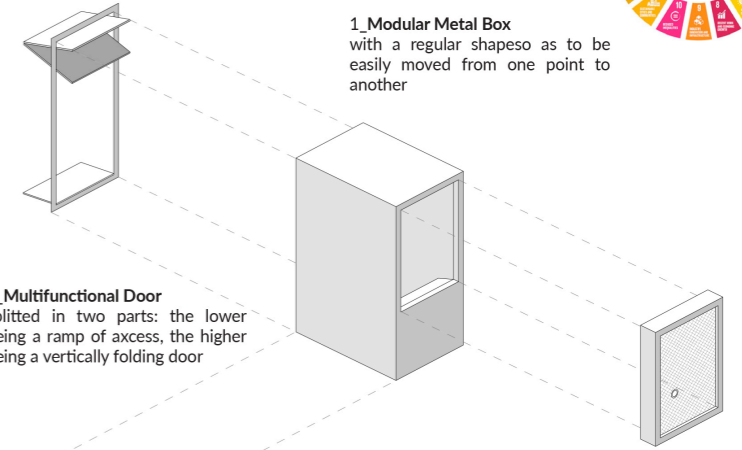
INFRASTRUCTURE

CYCLING AND WALKING NETWORK
<ul style="list-style-type: none"> Demarcation of the primary cycling paths, through surface signage along minor roads Demarcation of primary cycling paths within small towns through surface signage and addition of footpaths Upgrade of the primary cycling paths through the creation of designated cycle lanes along provincial roads Construction of a new branch of the primary cycling path along the embankments of the river Secchia Marking of the intersections between the cultural and cycling networks through paving changes Construction of scenic boardwalk along the river, connecting the main cycle path Establishment of secondary paths of the cycling network along the channels of Bonifica through the repaving of the channel service roads Construction of the new secondary paths of the cycling network, along the Bonifica channel Establishment of local paths through the upgrade of existing small roads Construction of local paths Construction of small pedestrian bridges over channels Provision of major resting areas, with benches, tables, drinking water, bins, toilets, information maps and bike repair tools Provision of minor resting stops, with benches, drinking water and a rubbish bin Indication signs at key intersections



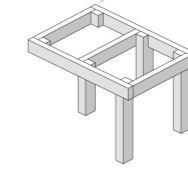


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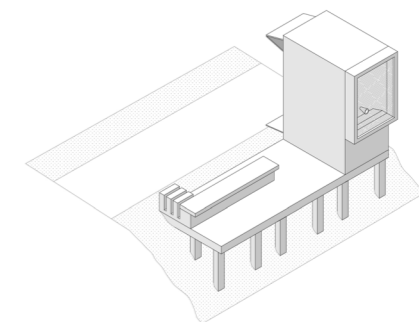
1_Modular Metal Box with a regular shapeso as to be easily moved from one point to another

4_Multifunctional Door splitted in two parts: the lower being a ramp of access, the higher being a vertically folding door

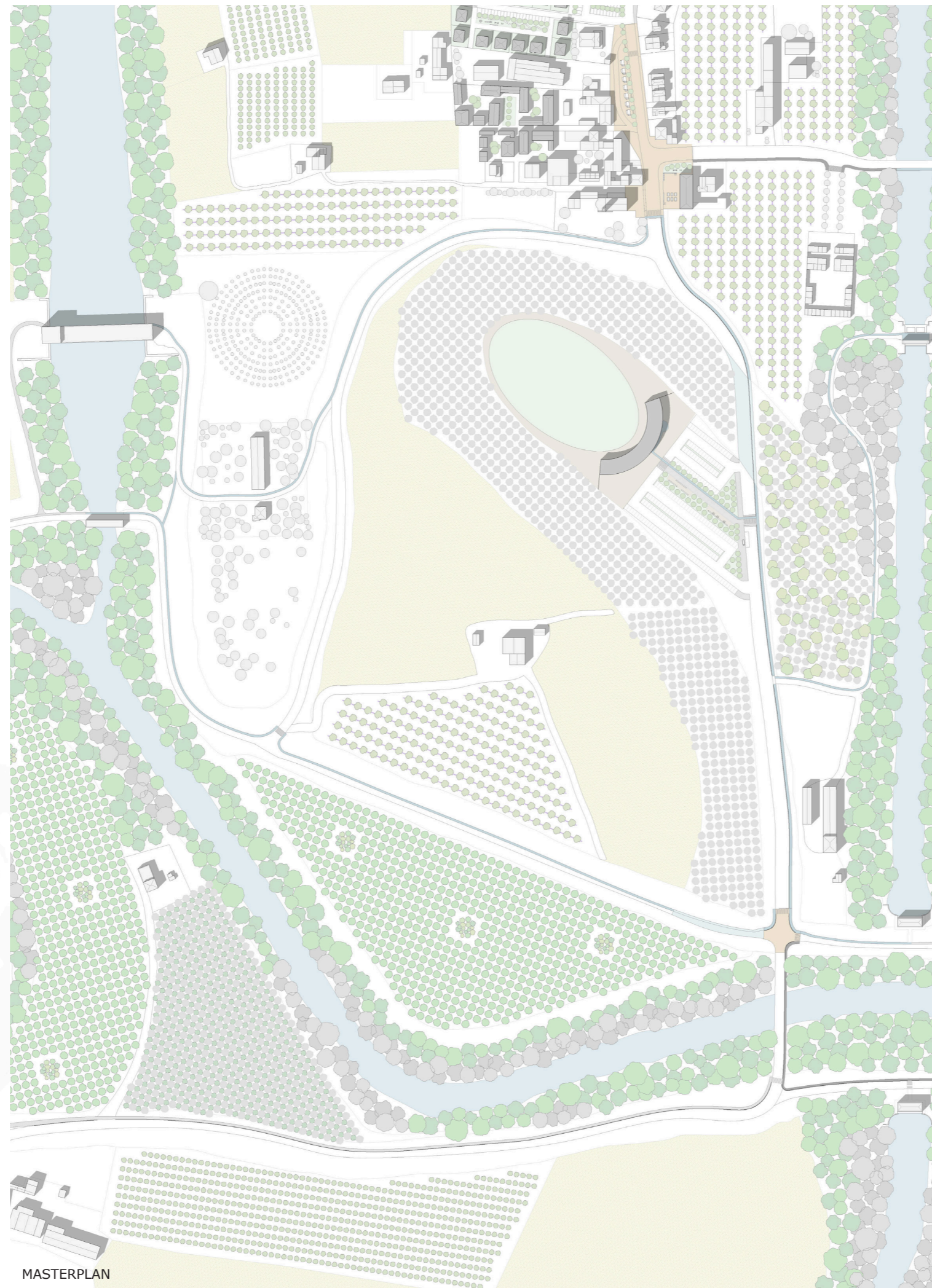


2_Double Grid Screen providing visual systems framing selected elements of the landscape

3_Removable Foundations made out of wooden pillars and beams to adapt to the steep embankments



Road Painting over Secchia Footprint



MASTERPLAN



Circulation diagram



Green connections



Residential area