

Country/City
University / School
Academic year
Title of the project
Authors

Italy / Piacenza
Politecnico di Milano
2024 - 2025
Nebida Panoramic Pathway

Davut Ayhan, Tomas Tirinato, Mehmet Uzunokur, Yibo Gao



Title of the project
Authors
Davut Ayhan, Tomas Tirinato, Mehmet Uzunokur, Yibo Gao
Title of the course
Academic year
Teaching Staff
Department / Section / Program of belonging
University / School
Nebida Panoramic Pathway
Davut Ayhan, Tomas Tirinato, Mehmet Uzunokur, Yibo Gao
Architectural Design Studio 1
2024 - 2025
Prof. Arriola Madorell Andreu , Prof.ssa Pandolfi Alessandra Maria, Sergio Salazar
Department / Section / Program of belonging
Sustainable Architecture and Landscape Design
University / School
Politecnico di Milano





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

The Nebida Panoramic Pathway is a scenic 6 kilometer coastal route designed to connect two of Sardinia's most iconic heritage sites: Laveria Lamarmora and Porto Flavia. Integrating both pedestrian and bicycle lanes, the path traces the coastline, offering direct access to several beaches and spectacular views of the Mediterranean landscape. It is part of a broader sustainable mobility strategy for the Municipality of Iglesias, which seeks to enhance coastal connectivity between Monteponi, Fontanamare, Laveria Lamarmora, and Porto Flavia.

To encourage slow tourism and promote accessibility, the path includes bicycle parking and shaded rest areas placed at key viewpoints. These spots allow users to pause, take in the view, and experience the area's rich geological and cultural heritage. The route adapts to the rugged terrain through a combination of flat and elevated segments that follow the natural topography.

The pathway is constructed from prefabricated reinforced concrete modules with a timber deck surface, providing a lightweight yet durable solution. Corten steel railings run along the seaward side for safety, while biomats on the inland edge support natural revegetation. The 3-meter-wide path is stabilized by micropilotis, which are effective in both sandy and fractured rocky conditions.

Accessible by a new public bus line with three strategic stops, the project aims to reduce car dependency and promote eco-friendly transport options. The pathway reflects a thoughtful integration of landscape, heritage, and sustainable infrastructure.

Barcelona International Landscape Biennial

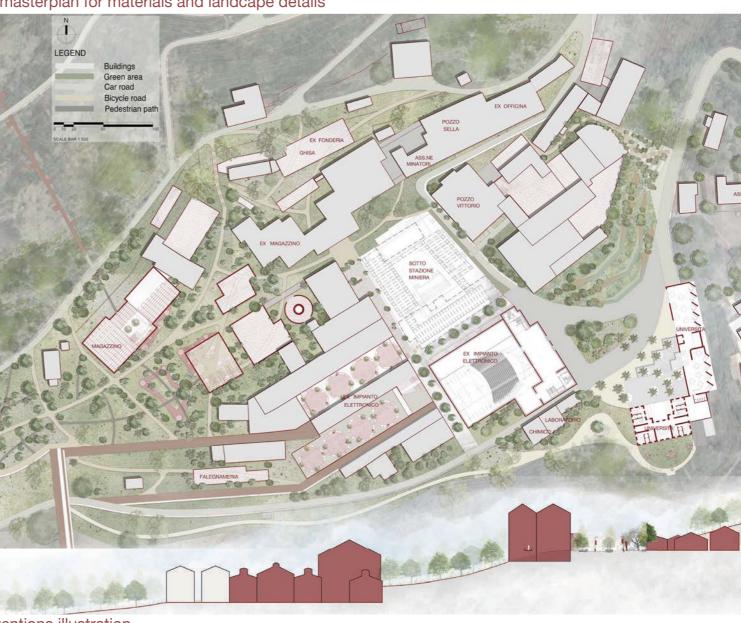
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Venue: COAC - Col·legi Oficial d'Arquitectes de Catalunya Carrer Arcs 1-3, 08002 Barcelona - Spain



masterplan for 4 different approaches to existing buildings and general landscape approach LEGEND

masterplan for materials and landcape details



impressions on monteponi



landscape interventions illustration



Monteponi: From Ruin to Renewal

This project reimagines Monteponi as a renewed landscape—an "island" reconnected to its surroundings through a network of historic and new paths. By reconstructing ancient routes, we restore links between the site, Iglesias, and the wider mining territory.

A new visual identity rebrands Monteponi as a place of meaning and possibility, while replanting native flora revives the site's ecological richness.

Monteponi becomes a new kind of neighborhood—open, inclusive, and rooted in community. Through adaptive reuse, shared spaces, and cultural programming, it transforms into a living landscape where history and contemporary life meet.

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Politecnico Di Milano

2024 - 2025

Reconnecting Monteponi

Şevki Yapıcı - Ceyda Coşar - Peng Peilin - Jiang Winjing



Reconnecting Monteponi Title of the project Şevki Yapıcı - Ceyda Coşar - Peng Peilin - Jiang Winjing Authors Reconnecting Monteponi Title of the course 2024 - 2025 Academic year Anderu Ariolla - Sergio Martin Salazar Abecasis **Teaching Staff**

Department / Section / Program of belonging School of Architecture and Urban Planning

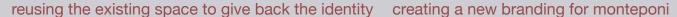
Sustainable Architecture and Landscape Design

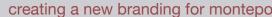
University / School Politecnico Di Milano



reusing the existing buildings as a workshop

reusing the existing buildings as a bazaar area











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

"Reconnecting Monteponi" is a landscape and urban regeneration project focused on revitalizing the historic Monteponi mining complex near Iglesias, in southwest Sardinia. Once a vital industrial site, Monteponi now exists as a fragmented and neglected landscape. This project positions Monteponi as a pilot intervention within a broader regional strategy linking key heritage sites like Porto Flavia and Nebida, with the aim of transforming post-industrial ruins into active cultural and community spaces.

The vision reframes Monteponi's abandoned structures not as relics, but as a cultural archive capable of supporting contemporary life. The design addresses accessibility first, improving circulation across the sloped site with barrier-free paths that connect key structures, open areas, and nearby settlements.

A neglected area on the western edge was reimagined as a civic and ecological threshold—blending Sardinia's natural landscape with Monteponi's industrial core through topographic adjustments and native

Architectural interventions focused on adaptive reuse and selective preservation. Stable buildings, such as the former hospital and school, were converted into community hubs and cultural spaces. In contrast, more deteriorated structures were stabilized and transformed into open-air museums or gardens, maintaining their material integrity while offering new functions.

The landscape was reinforced with native flora and modular, industrial-inspired furniture to encourage informal use and reflection. A key component of the project was the rebranding of Monteponi with a cohesive visual identity—through signage, wayfinding, and storytelling tools—to invite both locals and visitors to engage with the site's layered history and future potential.

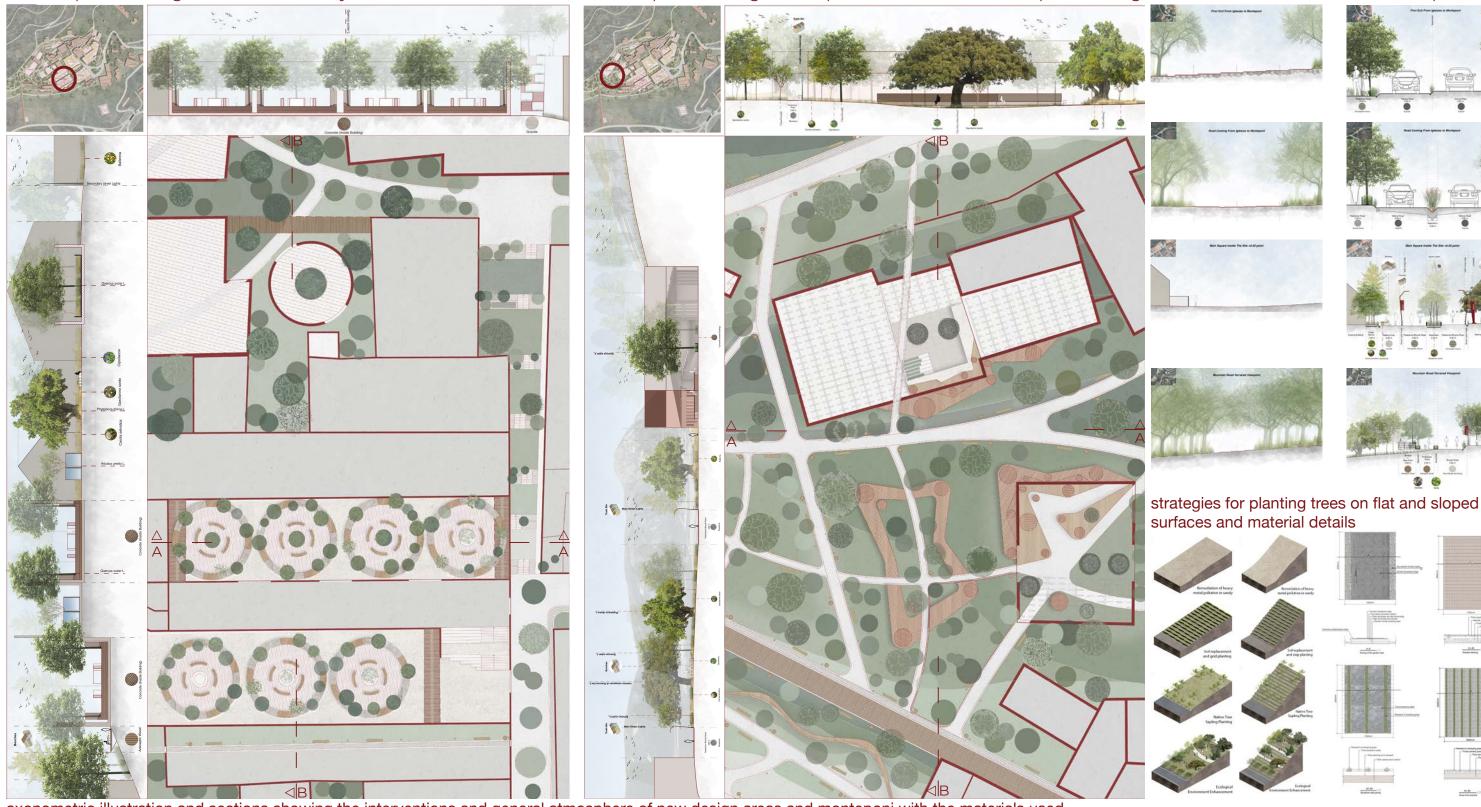
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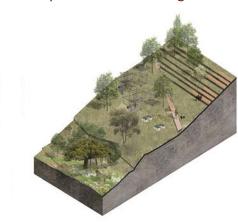
zoom in plan showing re-creation of library area

zoom in plan showing landscape furniture and reuse of open building before - after sections of roads and pathways

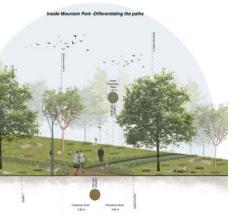


axonometric illustration and sections showing the interventions and general atmosphere of new design areas and monteponi with the materials used

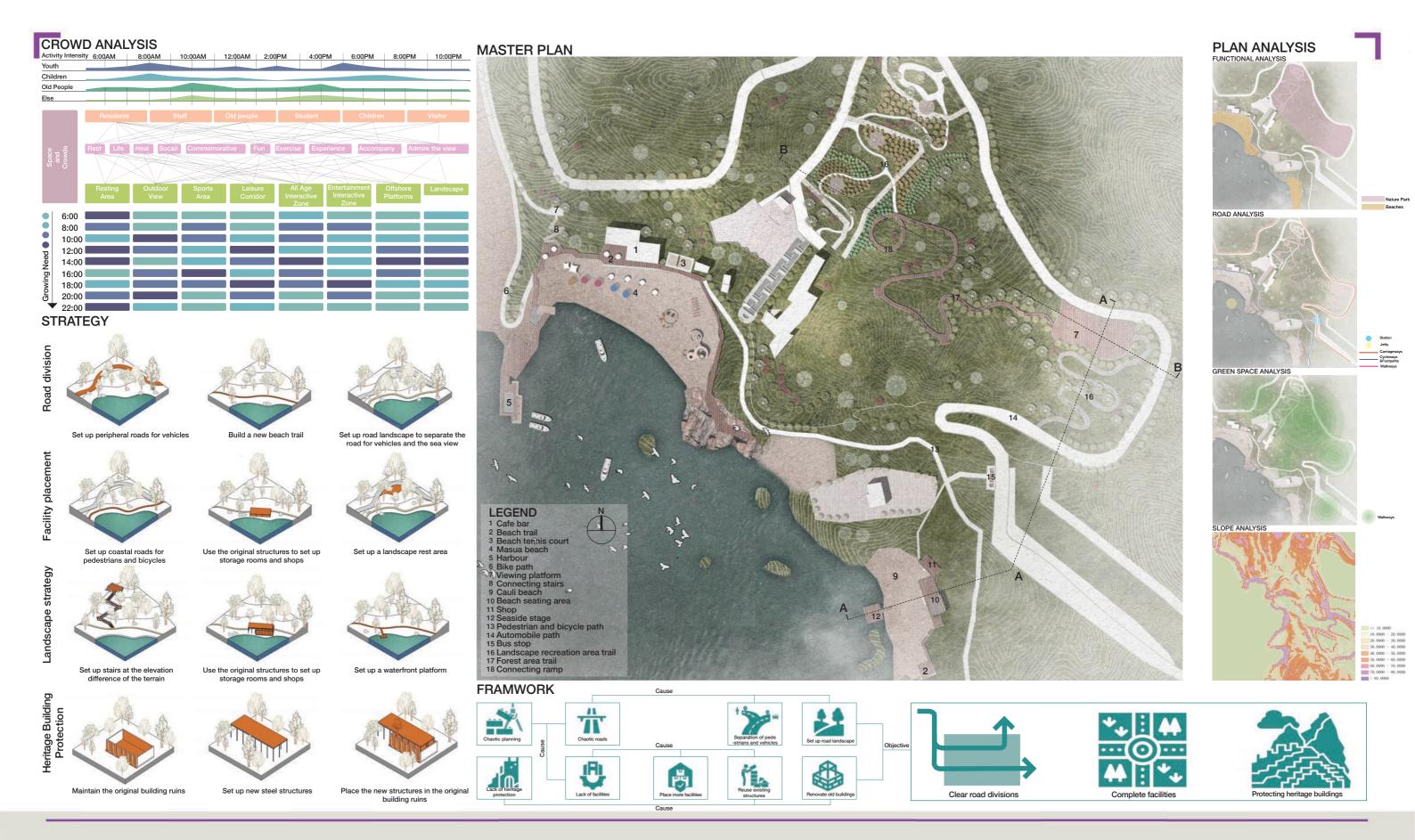












Country/City
University / School
Academic year
Title of the project
Authors

Piacenza, Italy

Polytechnic University of Milan

2024/2025

Masua beach sustainable retrofit design

Zheng Jiayu , Xu Yingjie , Jiang Jiawei , Wang Zengchen



Title of the project Masua beach sustainable retrofit design

Authors Zheng Jiayu , Xu Yingjie , Jiang Jiawei , Wang Zengchen

Title of the course ARCHITECTURAL DESIGN STUDIO 1

Academic year 2024/2025

Teaching Staff Pro. ARRIOLA MADORELL ANDREU, Pro. PANDOLFI ALESSANDRA MARIA

Department / Section / Program of belonging Sustainable architecture and landscape design - Architecture-

School of Architecture Urban Planning Construction Engineering

University / School Polytechnic University of Milan





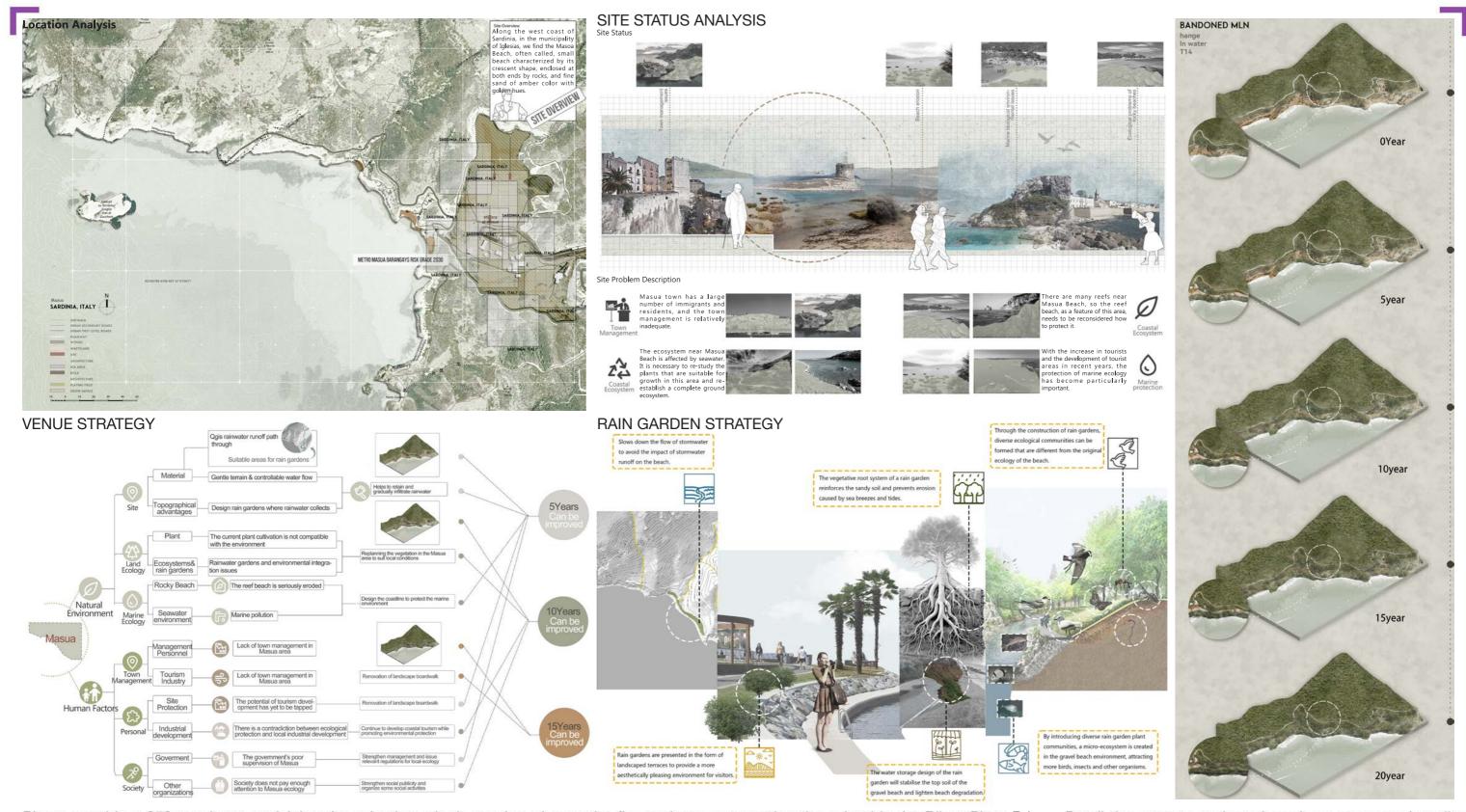
Written statement, short description of the project in English, no more than 250 words

This project addresses the sustainable revitalization of coastal landscapes in Sardinia, Italy, through a design strategy that integrates ecological restoration, cultural heritage preservation, and experiential tourism. Using multicriteria analysis, four sites were evaluated—Masua Beach, Porto Cauli, Porto Corollo, and Porto Ferru—revealing pressing issues such as limited accessibility, lack of facilities, and ecosystem degradation. The proposal introduces a multi-layered intervention plan that respects the local topography and historical buildings while enhancing public usability. New elements include pedestrian-friendly walkways, ecological shading structures, restored ruins, and modular cultural spaces. Sustainability is embedded in the system through passive design techniques, geothermal heating, rainwater recycling, and the use of native drought-tolerant plants to ensure biodiversity and erosion control. Referencing international case studies like the Living Water Park (Chengdu) and Boston College Campus (USA), the project aims to balance global best practices with local identity. The final masterplan creates a resilient, inclusive, and culturally vibrant coastal environment, providing a model for adaptive reuse and climate-responsive design in heritage landscapes.

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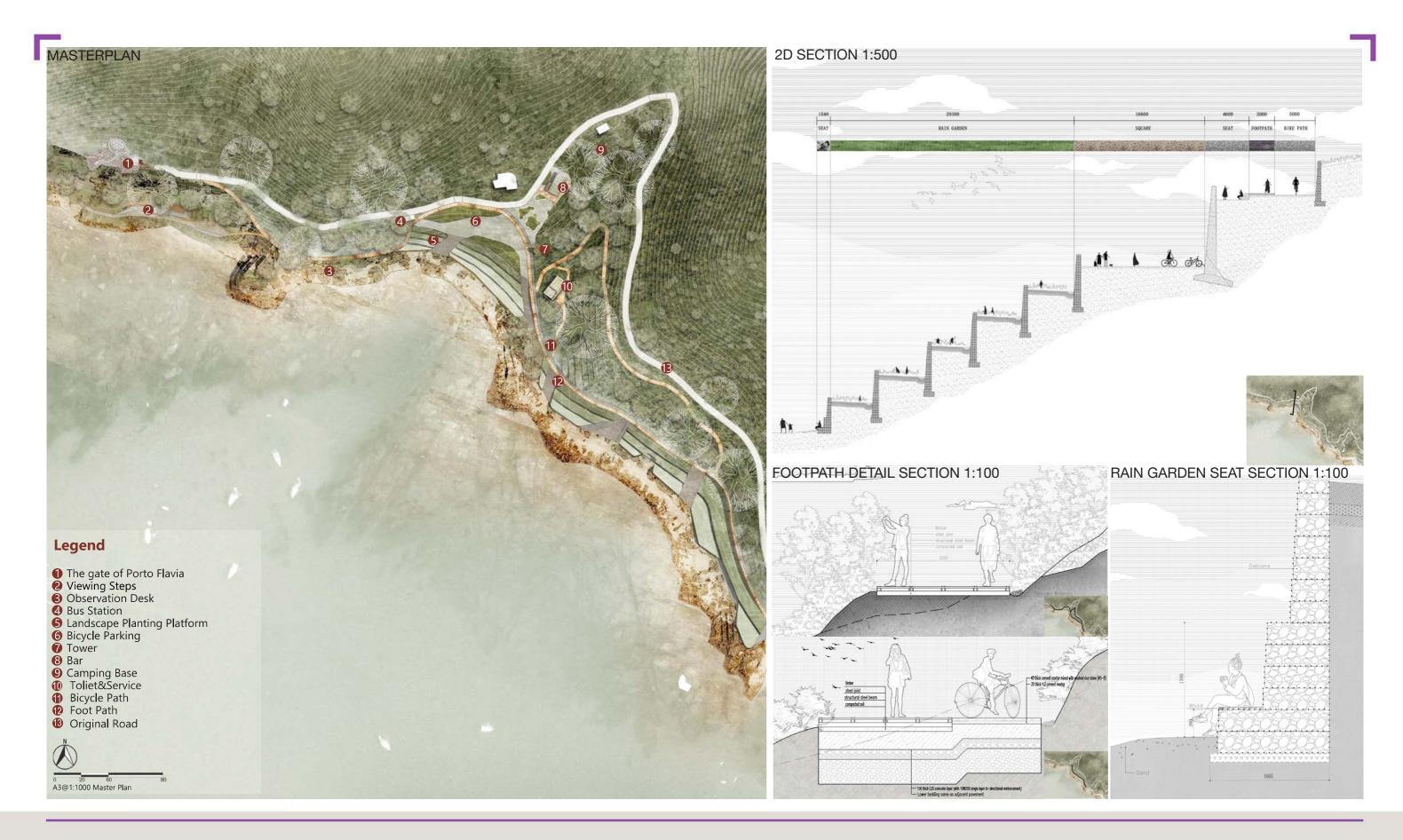
Contact via email: biennaladm@coac.net





Please provide a 250-word text explaining the selection criteria used to choose the five projects representing the school in the Ribas Piera Prize. Detail the aspects evaluated, such as conceptual quality, innovation, thematic relevance, technical resolution, or any other criteria considered in the selection process with a single image, characteristic of the academic process, to accompany the text.





Country/City
University / School
Academic year
Title of the project
Authors

Polytechnic University of Milan

2024/2025

MASUA TRANSITIONS

DAI YUANBEI LIU ZIHAN WANG ZHIHAN ZHENG XUYUN



Title of the project
Authors
DAI YUANBEI LIU ZIHAN WANG ZHIHAN ZHENG XUYUN

Title of the course
Academic year
Teaching Staff
Pro. ARRIOLA MADORELL ANDREU, Pro. PANDOLFI ALESSANDRA MARIA

Department / Section / Program of belonging
Architecture-School of Architecture Urban Planning Construction

University / School
Polytechnic University of Milan



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

This project reimagines Masua Beach, Sardinia, as a resilient and immersive coastal destination. Its core strategy is a 20-year phasing of rain gardens to reduce erosion, improve biodiversity, and regenerate native vegetation. Terraced and planted systems restore ecological function while enhancing beach access.

A layered mobility system combines shared buses, redesigned footpaths, and a dedicated cycle lane. Visitors arrive via public transport, minimizing ecological impact. In the first zone, a three-tier rain garden manages runoff and provides access. The second zone preserves native plants and improves public amenities like bike parking and service points. Due to steeper terrain, the final stretch becomes a pedestrian trail leading to Porto Flavia.

The project integrates ecological restoration with inclusive circulation to foster long-term resilience and a meaningful relationship between people and place.

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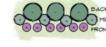
Contact via email: biennaladm@coac.net Venue: COAC - Col·legi Oficial d'Arquitectes de Catalunya Carrer Arcs 1-3, 08002 Barcelona - Spain

RAIN GARDEN SYSTEM

1.DRAFTS



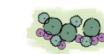
2.FOCAL POINT
Arrange plants around a focal point



3.LINE UP Make 3 straight rows



























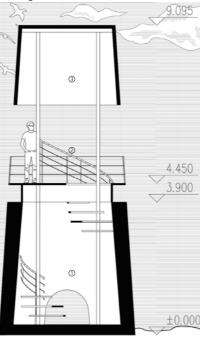
PLANT SELECTION



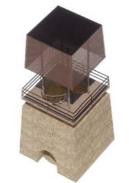
EXISTING BUILDING RENOVATION



Existing stone tower







Tower Section 1:100

② lookout

This tower is an old structure related to industrial use, most likely connected to local mining or metal processan ore furnace or roasting kiln. The arch-shaped structure at the base of the tower was once part of a roasting kiln used to heat ore and extract valuable metals. Such structure tures were common in mining areas during the 19th and early 20th centuries, particularly in resource-rich regions

EXISTING BUILDING RENOVATION

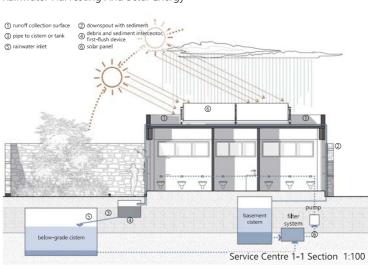
Service Centre

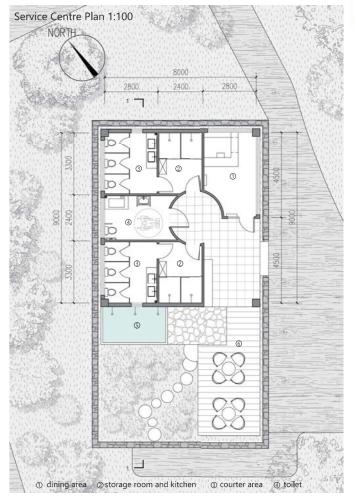




This renovation preserves the original broken stone walls as a historical feature while integrating modern functionality. A new public restroom with showers and retail spaces is built within the walls, and an open courtyard is designed to allow visitors to experience the preserved ruins and appreciate the site's heritage.

Rainwater Harvesting And Solar Energy

















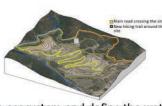


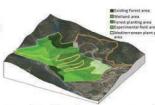
STRATEGIC ANALYSIS OF DESIGN DEVELOPMENT

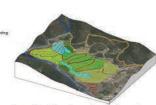




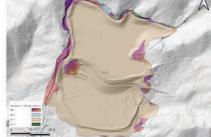








Identify existing roads, waterways, and hiking trails; remove unnecessary roads to restore the ecosystem; and define the water system. Develop a new road network, finalize the planting plan, and generate the final model.



QGIS-ROCK LITHOLOGY ANALYSIS

QGIS-HYDROLOGICAL SYSTEM ANALYSIS



QGIS-ELEVATION ANALYSIS









QGIS-SLOPE ANALYSIS

QGIS-RIVER IRRIGATION CAPACITY ANALYSIS QGIS-AGRICULTURAL BENEFIT ZONE ANALYSIS

QGIS-COMPREHENSIVE EVALUATION

Country/City **University / School** Academic year Title of the project **Authors**

Italy - Milan

Polytechnic University of Milan

2024/2025

Ecological Farm Park On Waste Rock

Prof. Arriola Madorell Andreu / Student's group : Ou ZiYang, Zhang ZiLing, Wu YiXuan



Title of the project
Authors Prof. Arriola Madorell Andreu / Student's group: Ou ZiYang, Zhang ZiLing, Wu YiXuan
Title of the course ARCHITECTURAL DESIGN STUDIO 1 - Sustainable Architecture and Landscape Design
2024/2025
Teaching Staff Arriola Madorell Andreu, Pandolfi Alessandra Maria, Sergio Martin Salazar Abecasis
Department / Section / Program of belonging ARCHITECTURAL DESIGN STUDIO 1 - Sustainable
Architecture and Landscape Design - Master course (1st year)
University / School Polytechnic University of Milan - Italy, Campus of Piacenza



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

This project transforms a former mining site in Masua, Sardinia, into an ecological farm park. Once degraded by decades of extraction, the land is reimagined as a resilient space for restoration, education, and recreation.

The masterplan includes a Mediterranean botanical garden, wetlands, experimental plots, and rice paddies, all shaped by the site's natural topography. Phytoremediation, sustainable farming, and water restoration help reverse soil degradation and biodiversity loss.

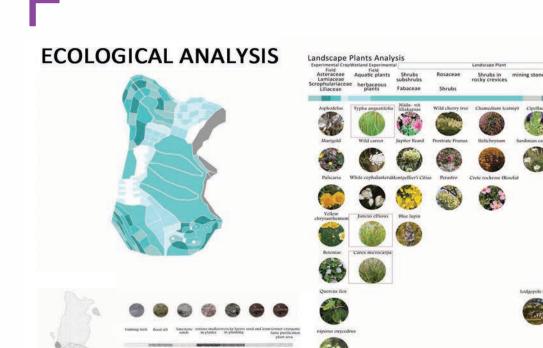
A network of paths links features such as the visitor center, observation deck, climbing area, and research base —promoting exploration and community use. Educational farming zones and ecological experiment areas engage locals and students in the recovery process.

By reconnecting the site to Masua Beach and Port Flavia through slow mobility trails, the project supports ecotourism while honoring local memory. It offers a new model for regenerating damaged landscapes: productive, inclusive, and nature-based.

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WATER PURIFICATION SYSTEM ANALYSIS

