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TERRARIUM. EARTH DESIGN:  
ECOLOGY, ARCHITECTURE  
AND LANDSCAPE

A CURA DI  
SILVIA MUNDULA,  
KEVIN SANTUS,  
SARA ANNA SAPONE

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# TERRARIUM. EARTH DESIGN: ECOLOGY, ARCHITECTURE AND LANDSCAPE

A CURA DI  
SILVIA MUNDULA, KEVIN SANTUS,  
SARA ANNA SAPONE



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ARCHITECTURE AND LANDSCAPE  
edited by  
Silvia Mundula, Kevin Santus, Sara Anna Sapone

*Terrarium* collects research and reflections on the relationship between space, soil, vegetation and the biotic community, linked through the metaphor of the terrarium. The book is curated by a research group from the Ph.D. program "Architectural Urban Interior Design", coordinated by Alessandro Rocca (Department of Architecture and Urban Studies at Politecnico di Milano), involved in the PRIN Sylva by the IUAV research unit.

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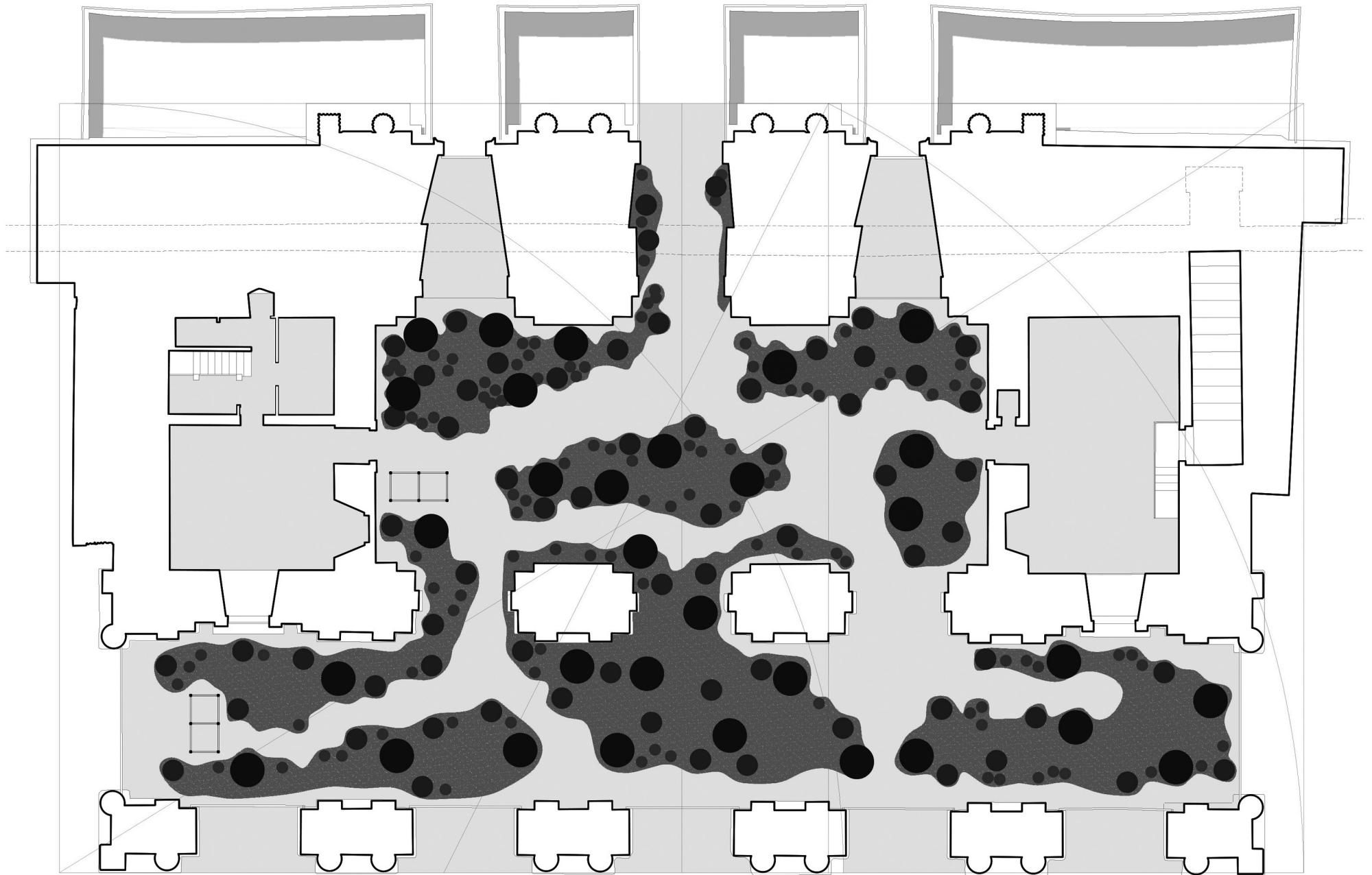
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# ALLEANZE. A TERRARIUM AS AN UNFINISHED MONUMENT

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PIVETTA,  
GIACOMO RAZZOLINI,  
MATTIA BALDINI,  
LAURA MUCCILOLO

*Alleanze* † is a time-fixed project that ventures the possible scenario of a monument where the interaction between biological and the unfinished architecture of *Porta Palio* is envisioned. The human senses are understood as instruments of observation and perception, occasional and voluntary, of the prefiguration of the architecture's fate: the monumental meant not as it was or as it is, but as it may be, perhaps as it will be. Following on the heels of previous short-time experiences that have seen plant starring staged in anthropic settings, this installation is composed of two acts: the saturation of the cavities of *Porta Palio* through "second life" plant existences and the conversion of the preeminent user from human to non-human. These antithetical and paradoxical actions contribute to a different interpretation of the monument, subverting the state of the art through the accelerated grafting of time as a substantial category of architecture. From a useless monumental object in which the void excludes life to a *terrarium* in which the biological fullness is life itself. The non-human becomes a sensual subject, in perpetual becoming, and addresses the monument by questioning the principles of its composition and its own evident artistic condition. Thus, *il Sistema Sanmicheliano*, verified through other entities, rediscovers itself as the subject of a broader in motion of escape from anthropocentrism to verify usually unprogrammed and unspoken realms. The human finally moves to the register of guest and witness, a possible but not immanent part of a dialogue ready for its rewriting. In this way, architecture also rediscovers itself in the dimension of "useless" object destined to abandonment, already a strategy in the arcadian project of Sanmicheli, an inevitable state of a path of transformation that *Porta Palio* and its wounds show to have already glimpsed. Immersed in a present capable of foreseeing the future only in easy digital instrumentation, *Alleanze*, contrarily, interprets everything in analog form, feeds physical observation, the uncanny knowledge of the verisimilar. Finally, *Alleanze* is not interested in scientific verification using the *terrarium* as a functional paradigm, empiricism is not his field of interest; instead, it proposes the truth of an ephemeral scenography, it stimulates the clearest interpretation of the meaning of multiple biologicals Being as a fragment of the possible rather than the certain. It frames a limited portion of time, endless or undefinable, an unknown state that no one, evidently, will ever be able to verify as valid.

Concept design. Ground Floor.  
Drawing by the authors, 2023.



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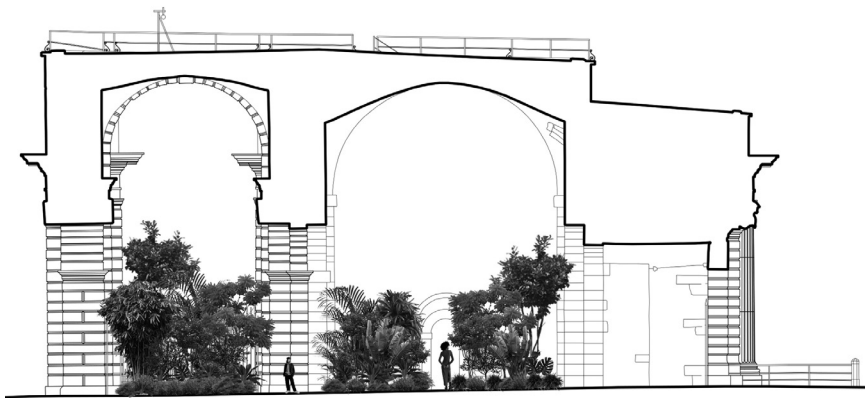


Concept design. Section.  
Drawing by the authors, 2023.

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ALLEANZE

Alleanze served, during its three-month lifetime, as a scenography/backdrop for the architectural exhibition *Spirito Zoo* as result of an architecture workshop organized by Sara Marini (IUAV), some theater shows (*A Midsummer Night's Dream*) and DJ sets (*Ablakh DJ*) in which the plants themselves collaborated in the production of sound tones.



0 1m 5 10

Concept design. Render.  
Drawing by the authors, 2023.



Alleanze, during the “Spirito Zoo” exhibition.  
Photo by Fabio Mantovani 2023.



Alleanze, during the “Spirito Zoo” exhibition.  
Photo by Fabio Mantovani 2023.



Alleanze, during the "Spirito Zoo" exhibition.  
Photo by Fabio Mantovani, 2023.



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## GREEN-COVERED: THE SINT-PIETERSBERG AS A TERRARIUM OF CULTURES KEVIN AMENDT, CHIARA CARAVELLO, RITA OCCHIUTO

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## HASSAN AHMED

Hassan (Beybe) Ahmed is a Maldivian environmentalist and coral scientist. In 2007, he founded the NGO "Save the Beach Maldives". Since then, he is fighting for an ecologically sustainable development of the country, involving local communities and schools. In 2014 he started his first coral restoration project. He led projects on different islands and organised the very first coral relocation in the Maldives (2016). He believes that only through information and knowledge the community will be able to protect and preserve its natural heritage. His aim is to grow back entire reefs and restore their ecological role lost due to climate change and coastal development.

## KEVIN AMENDT

Kevin Amendt is an independent researcher engaged in the study of underground quarries, their role in today's landscape and their preservation. Member of the "Studiegroep Onderaardse Kalksteengroeven", "vzw Hulpdienst Groeven" and founder of "Onderzoeksbureau MGL", he advises public and other organisations in the border region Liège (BE) - Limburg (NL/BE).

## MARGHERITA AUTORINO

Born in Rome in 1997, curious explorer and patient creative, third of four children. After classical high school, she enriched her university course with two years abroad, practicing drawing at FAUP in Porto and ecology at ENSP in Versailles-Marseille, and on-site internships with Wagon-Landscaping and the Botanical Garden of Rome. In 2023, she graduated with honors in Architecture - Urban Design at Roma Tre, guided by A. Metta, presenting with C. Condemi Maglia Boscata, a landscape architecture thesis on the material and immaterial, microscopic and cosmic geographies of the Magliana Stream.

## ANNALISA AZZOLA

Annalisa Azzola is a marine ecologist and research fellow at University of Genoa. She finished her PhD in Marine Science and Technologies in 2023. Her research topics include characterization, monitoring, and assessment of the ecological status and change over time of coastal ecosystems. Part of her research also focuses on assessing local and global anthropogenic impacts. Her studies are based on scientific diving techniques, including visual field surveys and photographic sampling.

## BEATRICE AZZOLA

Beatrice Azzola is an architect and academic researcher. She worked in several architecture firms in Italy, Portugal and Switzerland. In 2021 she started her PhD on Italian highway architecture and landscape. She also works on the disciplinary interferences between architecture and ecology.

## GINO BALDI

Architect, in 2020 founded in Bergamo with Serena Comi, Vacuum Atelier, an architecture and design studio, winner of architecture awards for young architects and architecture competitions. He holds a doctorate in architectural composition (PoliMi - AUID) (2019 -). Participates in academic conferences in Italy and abroad such as CA2RE Milan and Ljubljana (2020-21) and Conceptual Design of Structures in Zurich (2021), Workshop Urban regeneration and Industrial heritage EPFL - Lausanne (2023)

## MATTIA BALDINI

Mattia Baldini is an architect, founder and member of Fuoriformato Architettura, and PhD researcher in Architecture. Theories and Design (cycle XXXVIII, SSD: ICAR/14) at La Sapienza, University of Rome. He has conducted research in Italy (Florence, Rome) and abroad (ETSA in Seville). The main field of research application concerns the relationship between the theoretical pretexts of design and their applications in compositional practice.

## NADIA BERTOLINO

Nadia Bertolino, PhD, is an architect, writer and educator concerned with ethical design practices in response to socio-spatial inequalities and environmental emergency. She is Assistant Professor in Architectural and Urban Design at the University of Pavia. Formerly, Nadia coordinated the Master's Degree in Architectural Design at Sheffield School of Architecture and she was Senior Lecturer in Architectural Theory and Department Head of Equality, Diversity and Inclusion at Northumbria University, Newcastle.

## FEDERICO BROGGINI

Federico Brogginì is architect graduated at Accademia di Architettura di Mendrisio. Since his early experiences he focused on urban and landscape design, in particular dealing with soil and water management concerns. He is part of Latitude Platform for Urban Design and Research. In 2022 he started a PhD in landscape architecture at RomaTre University. The thesis explores the world of urban soils, in particular sealed soils by asphalt, investigating their intrinsic values and potentialities in landscape design practices.

## THOMAS CABAI

Thomas Cabai is an Italian architect and Ph.D. candidate at the Department of Architecture and Urban Studies (DASTU) at Politecnico di Milano, where he is also a teaching assistant in the Landscape and Infrastructure Design Studio. His main research interest lies within the relationship between ecology and built environment in anthropic territories. He is part of the National Biodiversity Future Center and is currently working on several projects of Restoration Ecology and Phytoremediation in the Metropolitan City of Milan, Tuscany and Friuli Venezia Giulia.

## CHIARA CARAVELLO

Chiara Caravello is a PhD candidate in architecture in a double programme between the University of Liège (BE) and Politecnico di Milano (IT). Awarded with a FNRS fellowship, she is carrying out her research on underground quarries in the cross-border area of the 'Three Countries Park' in the Euregio Meuse-Rhine (BE-NL-DE).

## GIULIA CAZZANIGA

Architect and researcher, Giulia Cazzaniga holds a PhD in Landscape and Environment from Sapienza Università di Roma. Her research focuses on the impact of representation on the perception of landscape and its influence on the design of future transformations. Recently, she has applied this reflection to the River Po basin. She is part of the research team financed by Enel Green Power focusing on the decommissioning of solar power plants and she is currently a research fellow at the Politecnico di Milano where she teaches Landscape Architecture design.

## AMINA CHOUAIRI

Amina Chouairi is a PhD student in Urbanism at Università Iuav di Venezia and holds a Master of Science in Landscape Architecture from Delft University of Technology. Since 2019, she has been researching and working on the Venetian Lagoon complex transitional territory, exploring the debated relations among its cultures and natures. Crucial for her is the understanding of the agency of the bare landscape - the brackish marshes, i.e. the ignition point from which to rethink the Venice-in-a-lagoon system.

## FELICE CIMATTI

Felice Cimatti teaches "Semiotica e teoria dei linguaggi" at the 'Università della Calabria.

## PIETRO CONSOLANDI

Pietro Consolandi is a researcher and artist based in Venice, where he co-founded the Barena Bianca collective in 2018. He is a research fellow at THE NEW INSTITUTE Centre for Environmental Humanities (NICHE), Ca' Foscari University, inquiring about the possibility to implement the Rights of Nature in the Venetian Lagoon from a cultural point of view. He also collaborates with art and ecology foundation TBA21-Academy since 2020, where he develops various collaborative didactic initiatives as OCEAN / UNI Research Lead.

## CASSANDRA COZZA

Cassandra Cozza, architect, PhD, is Lecturer and Assistant Professor in Architectural and Urban Design at the Department of Architecture and Urban Studies, Politecnico di Milano. Her research topics focus on contemporary paradigms of architectural and urban design studying changes with a design approach aimed at enhancing both spatial relationships and contexts. She is a member of the scientific editorial board of the magazines Territorio (Franco Angeli) and Ardeth (Rosenberg & Sellier).

## SASKIA DE WIT

Saskia de Wit is landscape architect and assistant professor at the Section of Landscape Architecture, Delft University of Technology. She designs gardens and landscapes at her office Saskia de Wit tuin en landschap. Her research focuses on the garden as a core concept of the field of landscape architecture: the concept of the garden is used as a lens for further research into site-specificity, the sensory perception of place, urban landscapes, leftover spaces and urban forestry.

## DAMIANO DI MELE

Damiano Di Mele, architect, PhD candidate at the Sapienza University of Rome in international co-tutorship with the Universidad Politécnica de Madrid (UPM). Graduated cum laude from the Iuav University of Venice after a period of training in Spain. His current research is focused on the analysis of themes related to the history and criticism of contemporary Spanish architecture in the relationship between figurativeness and structure. He participates in research activities in the GIPC group (Grupo de Investigación en Paisaje Cultural) at the Proyectos Arquitectónicos department of the Escuela Técnica Superior de Arquitectura de Madrid (ETSAM), where he has been a visiting doctoral researcher since 2022.

## SARA FAVARGIOTTI

Sara Favargiotti is Associate Professor at the University of Trento, DICAM. Her research investigates the multiple identities of landscapes through applied research at different scales, focusing on fragile territories, emerging infrastructure, adaptive dynamics and regenerative design. Local coordinator of project B4R. Branding for Resilience (PRIN, 2020-2024), member of the Directive Board of IASLA (since 2018), she is co-founder and scientific advisor of the innovative startup RUMA S.r.l. SB.

## MARCO FERRARI

Marco Ferrari is a researcher at the University of Trento, DICAM and adjunct Professor of Architectural Design Theory at the University of Ferrara. He is project leader of PaesaggiForti project and partner and co-founder of the artistic duo AIDEL. He is particularly interested in contemporary architectural and landscape theory and in revealing the relationship between bodies, ecologies and space, questioning concepts of domesticity and intimacy in both living environments and landscape.

## ANDREA FOPPIANI

Andrea Foppiani is a PhD candidate in Architectural, Urban, and Interior Design from the DASTU department at Politecnico di Milano, where he graduated with honors in Sustainable Architecture and Landscape Design. His research focuses on post-logistics landscapes in the Po Valley, working through more-than-human ecologies to explore future hybrid scenarios. He is an academic tutor in design studios and is part of the Landscape Off[f] Limits International Workshop's organization team.

## HERMANO LUZ RODRIGUES

Hermano Luz is a designer from Brazil and a PhD researcher in Creative Technologies at the University of Galway. He received a Master's in Design Studies degree from the Harvard Graduate School of Design, where he was a curator of the GSD Kirkland Gallery. He has exhibited and published internationally as an artist and contributed to several technological art projects. In his practice, he mixes iconic cultural heritage with contemporary digital media to inspire participatory creative practices.

## INA MACAIONE

Ina Macaione, associate professor at DiCEM\_Unibas, coordinates the Phenomenology of Architecture Design course. She is scientific coordinator of the NatureCityLAB. Her research is on the issues of urban regeneration, starting with the transformations of architecture, city and landscape in the process of ecological transition and Climate Change.

## VALERIO MASSARO

Valerio Massaro is an architect and academic and a PhD candidate at the AA School of Architecture. He holds a degree in architecture from the University of Florence and an MPhil from the AA School (Projective Cities). He taught Design and History and Theory in several institutions, including London South Bank University, the Royal College of Art and the University of Greenwich.

## DAVIDE MONTANARI

Davide Montanari graduated with honors in Sustainable Architecture and Landscape Design from Politecnico di Milano where he is currently doing a PhD in Architectural, Urban, and Interior Design. His research focuses on the practices of appropriation of water within the Po River Basin to unveil protocols of exploitation and investigate future visions through the image of cyborg landscapes. He works as tutor in design studios and is member of the Landscape Offfj Limits International Workshop's organization team.

## LAURA MUCCIOLLO

Laura Mucciolo, architect, is Ph.D. st. in Architecture. Theories and Design, Sapienza University of Rome. In 2022, she exhibits the ephemeral design With Mies van der Rohe into a New World (Neue Nationalgalerie) during the Hypercomfort SS by S. Bru (BRUTHER). In the year, she was guest curator with Michelangelo Pivetta and Giacomo Razzolini of the touring exhibition Isolario Venezia Sylva (curated by Sara Marini) at Dept. of Architecture in Florence. She publishes Terzo Paradiso (Libria, 2023).

## SILVIA MUNDULA

Silvia Mundula is a PhD candidate at the Politecnico di Milano and a garden designer. After completing her Master's degree in Architecture in Milan, she gained a Master's degree in History and Critical Thinking at the Architectural Association in London, where she developed her interest in the theory of gardens. Her research investigates the cultural principles and the design outcomes of contemporary wild oriented planting design in Europe.

## VALENTINA NOCE

Valentina Noce is an architect and researcher based in Milan (Italy). She is the founder of architectural office Sabotage Practice. She is completing a PhD in Architecture Interior and Urban Design at Politecnico di Milano, where she's also collaborating in teaching activities. Bridging the realms of architectural practice and academic research, her work delves into the intersections between space and technology.

## RITA OCCHIUTO

Rita Occhiuto is Professor Director of the "Lab. Ville-Territoire-Paysage" within the Research Unit in Architecture at the Faculty of Architecture, University of Liège (BE). She is member of the "PhD School in Architecture and urban planning" and of the Lepur "Research Center in Sciences of City, Territory and Rural Environment" (University of Liège), and Founder Member of "UNISCAPE - European Network of Universities for the implementation of the European Landscape Convention".

## ANDREA OLDANI

Andrea Oldani is an assistant professor of Landscape Architecture at the Department of Architecture and Urban Studies at Politecnico di Milano, where he is faculty member of the School of Architecture, Planning and Construction Engineering. He earned a Ph.D. in Architectural and Urban Design from the Department of Architecture and Planning. His researches on the landscape of contemporary infrastructure, are documented by a consistent number of scientific publications. Oldani curated seminars, exhibitions and editorial works.

## IRENE PANCAZZI

Irene Pancrazi is a marine biologist specialising in tropical environments and their restoration. In 2016 she started to work for the NGO "Save the Beach Maldives", after witnessing a bleaching event in the Maldives and feeling the urge to take action. Since then, she was in charge of the set-up and the research protocol of various coral restoration projects. She collaborates with various Italian universities, tutoring students and supporting scientific research. Today she is one of the project managers at the NGO and shares the same dream as its founder: to grow back the whole reef and see it thrive.

## MARIANA PEREIRA GUIMARÃES

Mariana Pereira Guimarães is an architect-engineer from Brazil and PhD Candidate in Politecnico di Milano's Architecture, Urban and Interior Design program. Mariana was a Marie-Curie EID-ITN research fellow within the SOLOCLIM programme (ID 861119) studying innovative outdoor water-cooling solutions such as fountains and water mists that can respond to extreme urban heat. She received a Master's in Urban Planning and Public Health from Harvard University focused on Human Health and Sustainability.

## MICHELANGELO PIVETTA

Michelangelo Pivetta, graduated from IUAV University of Venice, PhD and Associate Professor in Architectural Design in the Department of Architecture of University of Florence. The field of application of the theoretical research is the project and its manifestation through the ephemeral balance between technique, construction and form. He writes essays and books addressing in parallel the didactic and professional activities as experimental opportunities for perennial and necessary verification.

## MICHELE PORCELLUZZI

Michele Porcelluzzi is an architect and PhD candidate in Architectural, Urban and Interior Design at DASTU, Politecnico di Milano, in collaboration with the National Biodiversity Future Center. His research interest is focused on the concept of collectiveness in architectural and urban design. He is a founding member of the research project Assume There's a Landscape. His research activity has been published in journals including OASE (2022) and Die Architekt (2023) and exhibited at IABR 2022 in Rotterdam.

## CHIARA PRADEL

Chiara Pradel, PhD Arch. (Politecnico di Milano, 2022), is a Landscape Architect and Post-doc researcher at TU Delft, Faculty of Architecture and the Built Environment. Her research explores ground movements originated by building activities, mainly focusing on material culture, reuse and circular baukultur. She lives and works between Milan (Italy) and Delft (Netherlands).

## SARA PROTASONI

Sara Protasoni, Head of the M.Sc. in Sustainable Architecture and Landscape Design Politecnico di Milano - Piacenza Campus, is Full Professor of Landscape Architecture and member of the Board of the PhD Program in Landscape Architecture at La Sapienza University in Rome. At the Politecnico di Milano she combines teaching with an intense activity of design and theoretical research on landscape. She is the author of several monographs and over a hundred essays published in books and journals in the field.

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## GIACOMO RAZZOLINI

Giacomo Razzolini architect, founder and member of architecture firm filoferro architetti. He is teaching tutor at the Department of Architecture of the University of Florence. He was a research fellow at the University of Florence and Pavia for projects dealing with different themes. In 2022, he was guest curator with Michelangelo Pivetta and Laura Mucciolo of the touring exhibition Isolario Venezia Sylva (curated by Sara Marini) at Dept. of Architecture in Florence.

## ALESSANDRO ROCCA

Alessandro Rocca is an architect, a professor of architecture and the Head, for the period 2019-24, of the Ph.D. program of Architectural Urban Interior Design (www.auid.polimi.it) at the Department of Urban Studies of Politecnico di Milano. His recent research develops within the program of national interest (PRIN) "SYLVA - Re-think the sylvan: Towards a new alliance between biology and artificiality, nature and society, wildness and humanity" and the Ca2re European Consortium for design-driven research.

## KEVIN SANTUS

Kevin Santus is an Architect, Research Fellow and Ph.D. candidate at the Politecnico di Milano (Italy) in Architecture, Urban, and Interior Design. He won an interdisciplinary grant (2020-2024) to study the design transition facing climate fragilities and its impacts on the morpho-typological aspects of the project. Besides he is a Research Consultant at the Brookfield Sustainability Institute in Toronto and contributor in DOMUSweb.

## SARA ANNA SAPONE

Sara Anna Sapone is an Architect, Ph.D. candidate and Research Fellow at Politecnico di Milano. Here she was involved in teaching and research activities, such as the program G124 promoted by Renzo Piano on Italian peripheries. Meanwhile, she worked in Milan-based architecture firms, addressing urban renewal and architectural design. Since 2020, she's developing her doctoral research "Precision Wildland" within the AUID program at PoliMi and a research stay at the Landscape architecture section of TU Delft, funded by the Idea League Grant.

## GERARDO SEMPREBON

Gerardo Semperebon, PhD architect, is Assistant Professor in architectural and urban design at the Department of Architecture and Urban Studies (DASTU) of the Politecnico di Milano. Holder of two Ph.D. titles, SJTU + PoliMi, in 2019, he has been a visiting scholar at the BUCEA. The core topic of his research covers architectural strategies of revitalization in complex settlement systems, with specific focuses on Chinese and Italian cities and territories.

## GIULIA SETTI

Giulia Setti, architect, Ph.D., is an Assistant Professor of Architectural and Urban Design at Politecnico di Milano, Department of Architecture and Urban Studies. In 2022, she published a typological study of the stepwells in Ahmedabad, India. Her research focuses also on reusing industrial architecture. She worked in the Territorial Fragilities project led by DASTU – Department of Excellence 2018-2022. In 2014-2015, she developed research activities at CEPT University, Ahmedabad, India.

## CHIARA TOSCANI

Chiara Toscani is an architect, educator and researcher based in London. She is currently a PhD candidate at the AA School in London in History and Critical Thinking in Architecture. She got her first PhD in Architectural and Urban Design at the Politecnico di Milano and was awarded a postdoctoral research fellow in 2010. She taught urban and architectural design at the Politecnico di Milano, tutored at AA Summer School and Ravensbourne University. Author of essays and books. For a decade, she worked as a senior architect at Cino Zucchi Architetti.

## JO VAN DEN BERGHE

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