a cura di LETIZIA DIPASQUALE SAVERIO MECCA LUCIA MONTONI

Heritage for people

Sharing vernacular knowledge to build the future







With the support of the Culture Programme of the European Union





This publication is the result of the project VerSus+ / Heritage for People [Grant Agreement Ref. 607593-CREA-1-2019-1-ES-CULT-COOP1], co-funded by the European Union (2019-2023), under the Creative Europe Culture Programme.

The European Commission support for the production of this publication does not constitute endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

This collective work gathers five European university institutions and integrates contributions from the project leader and the project partners. In addition to the Editors, the main contributors are:

Project leader



Universitat Politècnica de València, Escuela Técnica Superior de Arquitectura, Spain

Camilla Mileto, Fernando Vegas (*Project leaders and Principal investigators*), Valentina Cristini, Lidia García-Soriano, Guillermo Guimaraens, Marina Elia, María Lidón de Miguel, Juan María Songel, Juan Bravo Bravo, Jose Luis Baró Zarzo, Alicia Hueto Escobar, Sergio Manzano Fernández

Partners





DICAAR

IVERSITÀ DI CAGLIARI

DIPARTIMENTO DI INGEGNERIA CIVILE AMBIENTALE E ARCHITETTURA





With the Support of



International Committee of Vernacular Architecture ICOMOS-CIAV

Università degli Studi di Cagliari, Italy

Maddalena Achenza, Ivan Blecic, Amanda Rivera Vidal, Alice Agus

École Nationale Supérieure d'Architecture de Grenoble, France

Bakonirina Rakotomamonjy (*Principal investigator*), Sebastien Moriset, Nuria Sánchez Muñoz, Manon Mabille, Audrey Carbonnelle

Università degli Studi di Firenze, DIDA Dipartimento di Architettura, Italy

Letizia Dipasquale (*Principal investigator*), Alessandro Merlo, Saverio Mecca, Lucia Montoni, Edoardo Paolo Ferrari, Gaia Lavoratti, Giulia Lazzari, Matteo Zambelli

Universidade Portucalense, Portugal

Mariana Correia (*Principal investigator*), Gilberto Duarte Carlos, Goreti Sousa, Mónica Alcindor, Rui Florentino, Emília Simão, Ana Lima, Telma Ribeiro, Bruno Andrade



International Scientific Committee on Earthen Architectural Heritage ICOMOS-ISCEAH



Unesco Chaire Earthen architecture, building cultures and sustainable development CRATERRE | AE&CC | ENSAG | UGA

Acknowledgments: Municipality of Formentera and Municipality of Calasetta for the hospitality, European Heritage Volunteers for the photos provided, all the authors for their cooperation and effort.

English proofreading: Luis Gatt

LogoVersus + graphic design: Teresa Correia, UPT

Cover: Kids playing with building materials at the "Grains d'Isère" festival. Photo: PatriceDoat

Website: www.versus-people.webs.upv.es | Instagram: VerSus Heritage for PEOPLE | App: www.heritageforpeople.unifi.it

a cuta di LETIZIA DIPASQUALE SAVERIO MECCA LUCIA MONTONI

Heritage for people

Sharing vernacular knowledge to build the future

authors

Maddalena Achenza, Mónica Alcindor, Bruno Andrade, José Baganha, Stefan Balici, Julieta Barada, Sara Bartolini, José Luis Baró, Juan Bravo, Gisella Calcagno, Gilberto Duarte Carlos, Alicia Casals, Carlos Castillo Levicoy, Valentina Cristini, Mariana Correia, Edoardo Paolo Ferrari, Teresa Cunha Ferreira, Soraya Genin, Carmen Gómez Maestro, Borut Juvanac, Marwa Dabaieh, Letizia Dipasquale, Marina Elia, Rui Florentino, Lidia García-Soriano, Alejandro García Hermida, Debora Giorgi, Leticia Grappi, Kin Guerra, Hubert Guillaud, Gaia Lavoratti, Davide Leone, Ana Lima, Saverio Mecca, Alessandro Merlo, Camilla Mileto, Magda Minguzzi, Lucia Montoni, Sebastien Moriset, David Morocho, Cristian Muñoz Catalán, Alina Negru, Amalia Nuevo-Delaunay, Karl Nyqvist, Constanza Pérez Lira, Giacomo Pierucci, Bakonirina Rakotomamonjy, Telma Ribeiro, Amanda Rivera Vidal, Alba Rivero Olmos, Elena Rigano, Nathalie Sabatier, Nuria Sánchez Muñoz, Emilia Simão, Juan María Songel, Goreti Sousa, Angela Squassina, François Streiff, Birgitte Tanderup Eybye, Jorge Tomasi, Antonella Trombadore, Francesco Trovò, Fernando Vegas, Marzia Varaldo, Montserrat Villaverde, Matteo Zambelli.



Heritage for people. Sharing vernacular knowledge to build the future / eds. Letizia Dipasquale, Saverio Mecca, Lucia Montoni — Firenze - DIDA Press, 2023.

ISBN: 978-88-3338-200-5

All publications are submitted to an external double refereeing process under the responsibility of the DIDA Scientific Editorial Board.

Content license: the present work is released under Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0: https://creativecommons.org/licenses/by-nc-sa/4.0/legalcode).

© **2023** Author(s) Published by

didapress Dipartimento di Architettura Università degli Studi di Firenze via della Mattonaia, 8 Firenze 50121 https://didapress.it/

progetto grafico

dida**communicationlab**

Dipartimento di Architettura Università degli Studi di Firenze Stampato su carta di pura cellulosa Fedrigoni Arcoset





CONTENTS

INTRODUCTION

Foreword Hubert Guillaud	12
Foreword Marwa Dabaieh	14
Heritage for People. A project for connecting people with their tangible and intangible heritage Camilla Mileto, Fernando Vegas	16
LESSONS FROM VERNACULAR ARCHITECTURE TO SUSTAINABILITY	30
VerSus Methodology: development and application Gilberto Duarte Carlos, Mariana Correia	32
Transmission of the VerSus method to architecture students and lecturers Sebastien Moriset	38
From intangible heritage to circular knowledge Letizia Dipasquale, Saverio Mecca, Lucia Montoni	44
Indigenous & traditional knowledge systems and the circular paradigm Debora Giorgi	50
Diversity and sustainability of traditional architecture in global warming and ecological and digital transitions Saverio Mecca	56
Lessons on conservation from vernacular architecture Fernando Vegas, Camilla Mileto, Valentina Cristini, Lidia García-Soriano	62
Vernacular parameters of sustainability in 21st century architecture Juan María Songel, Fernando Vegas, Camilla Mileto, Juan Bravo	68
STRATEGIES FOR THE MANAGEMENT AND DISSEMINATION OF TRADITIONAL KNOWLEDGE FOR A SUSTAINABLE FUTURE	74
Conservation and design Fernando Vegas, Camilla Mileto	76
Conservation and restoration of traditional architecture Camilla Mileto, Fernando Vegas	80

Restoration of a vernacular house in Sesga, Valencia (ES) Camilla Mileto, Fernando Vegas	86
Urban building on calle Maldonado 33, Valencia (ES) Fernando Vegas, Camilla Mileto	87
Conservation of a Valencian barraca (ES) Fernando Vegas, Camilla Mileto	88
The sun temple (IN) Edoardo Paolo Ferrari	89
Renovation and adaptive reuse of vernacular architecture Letizia Dipasquale	90
Alcino Cardoso house renovation by Álvaro Siza (PT) Teresa Cunha Ferreira, Soraya Genin, Mariana Correia	97
<i>Toolkit for innovative and eco-sustainable renovation process</i> Lucia Montoni, Gisella Calcagno, Giacomo Pierucci, Antonella Trombadore	98
Renovation of a stone and rammed earth house in Tuscany (IT) Elena Rigano	99
Memory garden in Vinaroz, Castellón (ES) Fernando Vegas, Camilla Mileto	100
Renovation, seismic and energy retrofit of a farmhouse in Val di Chiana, Tuscany (IT) Sara Bartolini	101
Designing with tradition: old techniques for modern architecture José Luis Baró, Fernando Vegas, Camilla Mileto	102
<i>Tile vaulting in 21st century</i> Fernando Vegas, Camilla Mileto, Lidia García-Soriano	108
House of Nature, Silkeborg Højskole by Reværk Birgitte Tanderup Eybye	109
Ses Menorquines Alicia Casals, Karl Nyqvist	110
Fan Forest Houses by Bergmeisterwolf Studio (IT) Matteo Zambelli	111
Education strategies Sebastien Moriset	112
Teaching architecture and heritage to kids Sebastien Moriset	118
<i>Educational trunk in support of traditional architecture</i> Camilla Mileto, Fernando Vegas, Lidia García-Soriano, Valentina Cristini	124
Rehabimed kids: workshop on traditional architecture Letizia Dipasquale, Montserrat Villaverde	125
Practical tools for teaching architecture and heritage to children Borut Juvanac	126
<i>Elémenterre</i> Nathalie Sabatier, Alba Rivero Olmos	127

An overview of university and post-university education in vernacular architecture Bruno Andrade, Telma Ribeiro, Mariana Correia, Goreti Sousa, Ana Lima	128
DSA: earthen architecture, building cultures and sustainable development Bakonirina Rakotomamonjy	136
Workshops on traditional trades and preservation of traditional techniques Camilla Mileto, Fernando Vegas, Valentina Cristini, Lidia García-Soriano	137
<i>The first Traditional Architecture Summer School in Portugal</i> Rui Florentino, José Baganha, Alejandro García Hermida	138
<i>Teaching vernacular architecture: different pedagogical approaches in higher education</i> Telma Ribeiro	139
Training with craftspeople and maintenance of traditional knowledge Sebastien Moriset	140
The artisans of Venice Angela Squassina	145
Italian Dry Stone Walling School Edoardo Paolo Ferrari	146
Restoration of heritage assets programme atDuoc UC professional institute Carmen Gómez Maestro	147
Community engagement Mónica Alcindor, Emilia Simão	148
Traditional heritage preservation and enhancement through community participation Sebastien Moriset	152
Terraccogliente experience Walter Secci	158
<i>El Cabanyal: neighbourhood participation against urban expropriation</i> Camilla Mileto, Fernando Vegas, David Morocho	159
Adopt a house in Rosia Montana, Romania Stefan Balici	160
Andean architecture and earthen construction Lab Julieta Barada, Jorge Tomasi	161
Participating in building and restoring vernacular heritage	162
Fernando Vegas, Camilla Mileto	

European Heritage Volunteers Valentina Cristini	168
Cob in Lower Normandy, France François Streiff	169
Gamification for community engagement in heritage and sustainability Alessandro Merlo, Letizia Dipasquale	170
Calasetta heritage games Amanda Rivera Vidal, Maddalena Achenza	176
Artisans to the rescue Davide Leone	177
The Seven Families of Formentera Nuria Sánchez Muñoz	178
Contahistoria Camilla Mileto, Fernando Vegas, Marina Elia	179
Knowledge management and dissemination Letizia Dipasquale, Saverio Mecca	180
Documenting and safeguarding intangible heritage Letizia Dipasquale, Edoardo Paolo Ferrari	184
Ràixe: Digital Spaces for Tabarkan Culture Marzia Varaldo	190
Practices of Cultural Re-appropriation: projects in co-authorship with the First Indigenous Peoples of South Africa Magda Minguzzi	191
The village of Esfahak: knowledge transmission on vernacular construction techniques in the Iranian desert Edoardo Paolo Ferrari	192
Red de maestros - network of master builders Camilla Mileto, Fernando Vegas, Valentina Cristini	193
Documentation and digital survey of tangible heritage Alessandro Merlo, Gaia Lavoratti	194
International workshops on traditional architecture in Rincón de Ademuz, Valencia (Spain) Fernando Vegas, Camilla Mileto	200
Documenting and virtual visiting World Heritage in 3DPAST Mariana Correia, Gilberto Carlos	201
3D survey of the vernacular architecture of the Aysén region Carlos Castillo Levicoy, Constanza Pérez Lira, Amalia Nuevo-Delaunay	202
Modelling traditional knowledge on earthen domes of Syria Letizia Dipasquale, Saverio Mecca	203

Managing constructive and architectural knowledge for builders and designers Letizia Dipasquale, Telma Ribeiro, Rui Florentino, Mariana Correia	204
<i>Heritage for people: a collaborative app</i> Letizia Dipasquale, Lucia Montoni, Edoardo Paolo Ferrari	210
Learning to conserve Fernando Vegas, Camilla Mileto	211
Cartoterra Sebastien Moriset	212
Mapadaterra platform Leticia Grappi, Kin Guerra	213
Sharing knowledge with a wide public Sebastien Moriset	214
Full Immersion nella Terra Maddalena Achenza	219
Grains d'Isère Festival Bakonirina Rakotomamonjy	220
Homo faber Exhibition Francesco Trovò	221
Regio heart Alina Negru, Alessandro Serra	222
El Adobe educational video Amanda Rivera Vidal, Cristian Muñoz Catalán	223
CASE STUDIES: FORMENTERA AND SANT'ANTIOCO ISLANDS	224

Formentera: cultural heritage and sustainability	226
Fernando Vegas, Camilla Mileto, Lidia García-Soriano, Valentina Cristini	

Sant'Antioco: cultural heritage and sustainability	240	
Letizia Dipasquale, Alessandro Merlo, Gaia Lavoratti, Lucia Montoni, Maddalena Achenza		

.....

HOMO FABER EXHIBITION

Francesco Trovò

Università IUAV di Venezia, Venice, Italy

The island of San Giorgio Maggiore in Venice hosted the second edition of *Homo Faber*, an event devoted to the international exhibition of objects produced by numerous craftsmen specialised in decorative manufactures and applied arts. The visit offers an immersion in the applied knowledge of high-quality craftsmanship in various fields, documented through a variety of materials transformed into products. In addition to the exhibition hosted in the cloisters of the convent of San Giorgio, it is also possible to visit craftsmen scattered throughout the city and the islands, all of which are open to visits for the duration of the event, thus facilitating the unfolding of an immersive itinerary, which can also be tailor-made to the interests of each visitor, who in this way can witness the daily life in a workshop and observe craftsmen as they demonstrate their skills.

The event offers an opportunity to reflect more generally on the role of craftsmanship in the context of the safeguarding of the built heritage, in particular of the building of historic centres which are more common and less monumental, thus including examples of vernacular buildings, or building components. It is quite evident, in fact, that transformation interventions which regard unlisted historic buildings, which often make up the fabric of the historic centres of large cities, such as Venice, or are rural expressions of the built environment spread throughout the territory, are frequently less concerned with preservation. This trend depends, of course, on the existing legislation, but is also favoured by the fact that the crafts involved are increasingly less related to the place in which they operate, and often belong to other fields, such as that of new constructions, that lack the necessary references to the material culture underlying vernacular architecture, which in turn is an expression of the material products of craftsmanship practices.

In an era characterised by the prevalence of mass production, as well as by the digitisation and dematerialisation of processes, the success of the two editions of the exhibition, with more to follow, confirm the importance of this event as a worldwide reference, and demonstrates the great interest of the public in craftsmanship, its expressions and outstanding products. The spirit which guides the promoters of the initiative, a non-profit organisation from Geneva which supports contemporary craftsmen throughout the world, is also that of sending a signal about Venice, helping it to become once again an active place, declaring that craftsmanship, in all of its forms, from historicist accounts to more contemporary interpretations, represents the appropriate formula for saving the city from its decline.



WEB LINK

www.homofaber.com/en/guide

USERS

Craftsmen, master artisans, general public

VERSUS SUSTAINABILITY PRINCIPLES

- 7. Transmitting and sharing building cultures
- 8. Encouraging creativity
- 9. Recognising intangible values
- 10. Encouraging social cohesion
- 12. Promoting local activities



G

Three works created by the paper sculptor Cristian Marianciuc for Magnae Chartae at the Homo Faber Event 2022

(credits: Cristian Marianciuc) Homo Faber Event 2022. Ph.

Francesca Occhi (credits: Fondazione Giorgio Cini)





Finito di stampare da Rubbettino print | Soveria Mannelli (CZ) per conto di **dida**press **Dipartimento di Architettura** Università degli Studi di Firenze 2023

The publication presents the results of the project 'Versus-Heritage for People', funded by the Creative Europe EU programme. The main aim of the project was to actively involve a broad audience and raise awareness among it concerning the value of vernacular knowledge in shaping more sustainable and resilient models of development. The material and immaterial elements constituting a vernacular heritage (encompassing local materials, construction methods, models for living and social interaction, technical and environmental knowledge for the management of territories, natural resources, settlements, etc.) have enormous potential for generating forward-thinking models that can improve the environmental and social quality of our habitats, foster a sense of identity and belonging, and relate in a balanced way to the capacities of our planet. The book explores strategies and tools for managing and transmitting knowledge and the values associated with vernacular heritage. It includes concrete examples and good practices for engaging people in processes of knowledge and the enhancement of vernacular heritage values for sustainability. The outcome is the result of the collaborative efforts between the five academic institutions involved in the project – Universitat Politècnica de València as coordinator (ES), University of Florence (IT), University of Cagliari (IT), CRAterre-ENSAG (FR) and Escola Superior Gallaecia at Universidade Portucalense (PT). A total of 63 authors, comprising both external scholars and professionals, contributed to the book.

Letizia Dipasquale Architect, PhD in Technology of Architecture and Design, Associate Professor in Production and Management of the Built Environment at DIDA, Department of Architecture, University of Florence. Her academic research is focused on the topics of vernacular architecure, cultural heritage management and sustainable transition.

Saverio Mecca. Architect, Professor Emeritus of Production and Management of the Built Environment at the University of Florence, he was Dean of Faculty and then Director of the Department of Architecture of the University of Florence, 2009-2020. He works in the research field of construction management and sustainable innovation of architectural heritage in the Mediterranean region.

Lucia Montoni. Architect, obtained a postgraduate degree in Documentation and Management of Cultural Heritage. She is a PhD student in Technology of Architecture at the DIDA - University of Florence and collaborates with ETA-Florence company, which deals with communication and dissemination of scientific content on renewable energy.

