POLITECNICO DI TORINO Repository ISTITUZIONALE

П		thara	\sim	ti iti iro	tor.	∞	\sim	communitie	O. 1
П	· •		-		11 11	HIALOH	1171	(()	`
П	ı		u	ıutuic	101	HIGHAN	ıuı	CONTINUALITATION	.

Original Is there a future for marginal communities? / Bocci, Martina STAMPA 2:(2022), pp. 807-814. ((Intervento presentato al convegno HERITAGE2022, International Conference on Vernacular Heritage: Culture, People and Sustainability tenutosi a Valencia, Spain nel September 15th-17th, 2022 [10.4995/HERITAGE2022.2022.15218].
Availability: This version is available at: 11583/2971338 since: 2022-09-21T08:35:39Z
Publisher: Editorial Universitat Politècnica de València
Published DOI:10.4995/HERITAGE2022.2022.15218
Terms of use: openAccess
This article is made available under terms and conditions as specified in the corresponding bibliographic description in the repository
Publisher copyright

(Article begins on next page)

HERITAGE 2022 INTERNATIONAL CONFERENCE VERNACULAR HERITAGE: CULTURE, PEOPLE AND SUSTAINABILITY

Eds. C. Mileto, F. Vegas, V. Cristini, L. García-Soriano



VERNACULAR HERITAGE: CULTURE, PEOPLE AND SUSTAINABILITY

Eds. C. Mileto, F. Vegas, V. Cristini, L. García-Soriano



Colección Congresos UPV

The contents of this publication have been approved by the Congress Scientific Committee and in accordance to the procedure set out in http://ocs.editorial.upv.es/index.php/HERITAGE/HERITAGE2022

First edition, 2022

Scientific Editors

C. Mileto

F. Vegas

V. Cristini

L. García-Soriano

© of the contents: the authors

Publisher

Editorial Universitat Politècnica de València www.lalibreria.upv.es / Ref.: 6117 01 01 01

DOI: https://doi.org/10.4995/HERITAGE2022.2022.15942

ISBN: 978-84-1396-020-3

Print on-demand

Printer

Byprint Percom, S.L.

Printed in Spain



HERITAGE 2022

International Conference on Vernacular Heritage: Culture, People and Sustainability
This book is licensed under a Creative Commons Atribution-NonCommercial-ShareAlike-4.0
International license. Editorial Universitat Politècnica de València
http://ocs.editorial.upv.es/index.php/HERITAGE/HERITAGE2022

Organization and Committees

ORGANIZING COMMITTEE

Camilla Mileto (Chair) – Universitat Politècnica de València, Spain

Fernando Vegas López-M. (Chair) – Universitat Politècnica de València, Spain

Lidia García Soriano – Universitat Politècnica de València, Spain

Valentina Cristini – Universitat Politècnica de València, Spain

María Lidón De Miguel – *Universitat Politècnica de València, Spain*

Alicia Hueto Escobar – Universitat Politècnica de València, Spain

Vincenzina La Spina – *Universidad Politécnica de Cartagena, Spain*

Sergio Manzano – Universitat Politècnica de València, Spain

Francesca Trizio – Universitat Politècnica de València, Spain

Matilde Caruso – Universitat Politècnica de València, Spain

Marina Elia – Universitat Politècnica de València, Spain

Stefania Farina – Universitat Politècnica de València, Spain

David Eduardo Morocho-Jaramillo – *Universitat Politècnica de València, Spain*

Eva Tortajada Montalva – Universitat Politècnica de València, Spain

ORGANIZED BY

UPV – Universitat Politècnica de València

UPT-DAMG – Universidade Portucalense, Departamento de Arquitetura e Multimédia Gallaecia

UNIFI – Università degli Studi di Firenze

UNICA – Università degli Studi di Cagliari

CRATERRE-ENSAG – École Nationale Supérieure d'Architecture de Grenoble

PEGASO – Research Center Architecture, Heritage and Management for Sustainable

Development, UPV, Spain

Departamento de Composición Arquitectónica, Spain

CO-FUNDED BY

VERSUS+/Heritage for PEOPLE Project

Creative Europe – Creative Europe Programme of European Union

RISK – terra Project

MICIU – Ministerio de Ciencia, Innovación y Universidades

AEI – Agencia Estatal de Investigación

FEDER, UE – Fondo Europeo de Desarrollo Regional, Unión Europea

UNDER THE AEGIS OF

ICOMOS-CIAV – International Scientific Committee for Vernacular Architecture – International Council on Monuments and Sites ICICH – International Committee on Intangible Cultural Heritage

ICOMOS-ISCEAH-International Scientific Committee on Earthen Architectural Heritage

SCIENTIFIC COMMITTEE

Adolfo Alonso Durá – Universitat Poltècnica de València, Spain; Ahmed Alaidaroos – King Saud University, Riyadh, **Saudi Arabia**; Alejandro García Hermida – Universidad Alfonso X el Sabio, INTBAU-España, **Spain**; Alessandro Merlo – Università di Firenze, **Italy**; Alessio Cardaci – Università di Bergamo, Italy; Alicia Hueto Escobar – Universitat Politècnica de Valencia, Spain; Amparo Graciani García - Universidad de Sevilla, Spain; Ana González Serrano – Universidad de Sevilla, **Spain**; Ana Yañez Vega – Universidad Complutense de Madrid, Spain; Andrea Pane – Università Federico II di Napoli, Italy; Angela Squassina – Istituto Universitario di Architettura di Venezia, Italy; Antonella Versaci – Università Kore di Enna, Italy; Apolonia Begoña Serrano Lanzarote – Universitat Politècnica de Valencia, Spain; Arianna Guardiola Villora – Universitat Politècnica de Valencia, Spain; Arturo Zaragozá Catalán, Generalitat Valenciana, **Spain**; Bakonirina Rakotomamonjy – *CRAterre-ENSAG*, France; Borut Juvanec - University of Lubiana, Slovenia; Camilla Mileto - Universitat Politècnica de València, **Spain**; Chiho Ohiai – Kyoto National University, **Japan**; Claudia Cancino – The Getty Conservation Institute, USA; Cristina Vidal Lorenzo – Universitat de València, Spain; Daniela Esposito – Università La Sapienza Roma, Italy; David Eduardo Morocho-Jaramillo – *Universitat Politècnica de València*, **Spain**; Donatella Fiorani – Università La Sapienza Roma, Italy; Eva Tortajada Montalva – Universitat Politècnica de València, **Spain**; Fabio Fatiguso – *Università di Bari*, **Italy**; Fabio Fratini – *CNR-ICVBC*, *Sesto* Fiorentino (FI), Italy; Faissal Cherradi-Ministerio de Cultura, Morocco; Félix Jové Sandoval -Universidad de Valladolid, Spain; Fernando Vegas López-M. – Universitat Politècnica de València, Spain; Fernando Vela Cossío – Universidad Politécnica de Madrid, Spain; Francisco Javier López Martínez - Universidad Católica de Murcia, Spain; Francisco Javier Torrijo Echarri – Universitat Politècnica de València, Spain; Francesca Trizio – Universitat Politècnica de València, Spain; Francesco Trovó - Istituto Universitario di Architettura di Venezia, Italy; Frank Matero, University of Pennsylvania, USA; Gaspar Muñoz Cosme – Universitat Politècnica de València, Spain; Gilberto Carlos – Escola Superior Gallaecia, Vila Nova Cerveira, **Portugal**; Gisle Jakhelln – ICOMOS-CIAV, **Norway**; Guillermo Guimaraens Igual, Universitat Politècnica de València, Spain; Hirohide Kobayashi– Kyoto National University, Japan; Hossam Mahdy- ICOMOS-CIAV, Great Britain; Hubert Guillaud-CRAterre-ENSAG, ISCEAH, France; Humberto Varum – Universidade de Porto, Portugal; Isabel Kanan – ICOMOS-ISCEAH, PROTERRA, Brazil; Ivan Enev – Arquitecto, ICOMOS-CIAV, Bulgaria; Javier Ors Ausin – World Monument Fund, United States; Jorge Luis García

(CC) BY-NC-SA 2022, Editorial Universitat Politècnica de València

Valldecabres – Universitat Politècnica de València, **Spain**; Jorge Tomasi – CONICET, Instituto Interdisciplinario Tilcara, Argentina; José Luis Baró Zarzo – Universitat Politècnica de València, Spain; José Manuel López Osorio - Universidad de Málaga, Spain; Juan Bravo Bravo – Universitat Politècnica de València, **Spain**; Juan María Songel González – Universitat Politècnica de València, Spain; Juana Font Arellano – Fundación Antonio Font de Bedoya, PROTERRA, **Spain**; Julieta Barada – CONICET, Instituto Interdisciplinario Tilcara, **Argentina**; Letizia Dipasquale – Università di Firenze, Italy; Lidia García Soriano – Universitat Politècnica de València, **Spain**; Luis Fernando Guerrero Baca – Universidad Metropolitana Autónoma, Mexico; Luisa Basset Salóm – Universitat Politècnica de València, Spain; Maddalena Achenza – Universitá di Cagliari, ICOMOS-ISCEAH, Italy; Marcel Vellinga – Oxford Brookes University, ICOMOS-CIAV, United Kingdom; María Concepción López González- Universitat Politècnica de València, Spain; Maria Ines Subercaseaux -Metropolitana de Santiago, ICOMOS-CIAV, Chile; María José Viñals Blasco – Universitat Politècnica de València, **Spain**; María Lidón de Miguel – Universitat Politècnica de València, Spain; Mariana Correia – Escola Superior Gallaecia, Vila Nova Cerveira, Portugal; Marina Elia – Universitat Politècnica de València, **Spain**; Marwa Dabaieh – Lund University, Lund, ICOMOS-CIAV, Sweden; Matilde Caruso— Universitat Politècnica de València, Spain; Mikel Landa Esparza – Arquitecto, ICOMOS-IIWC, Spain; Min Hall – architect, Unitec Institute of Technology, Auckland, Nueva Zelanda; Mónica Luengo Añón – Arquitecto paisajista, ICOMOS-IFLA, **Spain**; Naima Benkari – Sultan Qaboos University, **Omán**; Natalia Jorquera – Universidad de Chile, Santiago, Chile; Ona Vileikis Tamayo-University Collage London, Reino Unido; Pamela Jerome – Columbia University, ICOMOS-ISCEAH, United States; Pablo Rodríguez Navarro - Universitat Politècnica de València, Spain; Paolo Vitti - University of Notre Dame, United States; Pasquale De Dato – Universitat Politècnica de València, Spain; Paulo B. Lourenço - Universidade do Minho, ICOMOS-ISCARSAH, Portugal; Pere Roca Fabregat – Universitat Politècnica de Catalunya, ICOMOS-ISCARSAH, Spain; Plácido González Martínez – Tongji University Shanghai, China; Rawiwan Oranratmanee- Chiang Mai University, *Thailand*; Renata Picone – *Università Federico II di Napoli, Italy*; Saverio Mecca – *Universitá di Firenze, Italy*; Sébastien Moriset – *CRAterre-ENSAG*, *France*; Sergio Manzano – Universitat Politècnica de València, Spain; Sergio Ortín Molina – Universitat Politècnica de València, **Spain**; Shao Yong – Tongji University Shanghai, **China**; Simone Ricca – WHITRAP, Shanghai, **China**; Stefan Balici – Ion Mincu Universty, **Romania**; Stefania Farina – Universitat Politècnica de València, **Spain**; Teresa Gil Piqueras – Universitat Politècnica de València, **Spain**; Thierry Joffroy– CRAterre-ENSAG, France; Valentina Cristini – Universitat Politècnica de València, **Spain**; Valentina Russo – *Università Federico II di Napoli, Italy;* Valeria Prieto – Arquitecta, ICOMOS-CIAV, Mexico; Vincenzina La Spina – Universidad Politécnica de Cartagena, Spain; Yolanda Hernández Navarro – Universitat Politècnica de València, Spain; Wenhao Ji- China Academy of Art, **Hangzhou**; Youcef Chennaoui – École Polytechnique d'Architecture et d'Urbanisme d'Alger, Algeria; Zuzana Syrová – National Heritage Institute, Czech Republic.

(CC) BY-NC-SA 2022, Editorial Universitat Politècnica de València

COLLABORATION IN THE PUBLICATION

Marina Elia (coordinator)

Stefania Farina

Lidia García Soriano

María Lidón De Miguel

Alicia Hueto Escobar

Sergio Manzano Fernández

Francesca Trizio

Matilde Caruso

David Eduardo Morocho-Jaramillo

Eva Tortajada Montalva

Conference support

ORGANIZED BY

















CO-FUNDED BY













UNDER THE AEGIS OF







Table of contents

Preface
Organization and Committees
Conference Support
PLENARY LECTURES A Vision for CIAV. Addressing the challenges facing the ICOMOS International Scientific Committee on Vernacular Architecture
The National Plan for Traditional Architecture as a safeguarding tool. Action programmes and projects
VERNACULAR ARCHITECTURE: MATTER, CULTURE AND SUSTAINABILITY Study and Cataloging of Vernacular Architecture
The standardisation of vernacular architecture. Wine buildings in Andalusia
Vernacular architecture in Brazilian semiarid region: survey and memory in the state of Sergipe
Knowledge and conservation of Mediterranean spontaneous architecture: some of the villages of the northern Tyrrhenian coast of Calabria
Architectural and constructive characteristics of vernacular settlements in southern Italy: the Esaro's valley and the popular identity of some exemplary cases
Spanish traditional architecture abandonment and destruction: an initial analysis of social risks, phenomena, and effects in earthen architecture
A taxonomy of vernacular heritage in the mid-Adriatic: Landscape relations and architectural characteristics of the farmhouses in Tronto Valley (Italy)
Traditional houses in the South-Western Iberian Peninsula: Themes for a cross-border comparative typological study
2022, Editorial Universitat Politècnica de València

The Hameau de la Reine at Versailles and the reproduction of vernacular architecture
Vernacular architecture of the Amalfi coast: a medieval domus in Villa Rufolo in Ravello (Italy)
Architectural survey, realized with integrated methodology, of the complex of Walser houses in Alagna Valsesia, Italy
Modern attitudes towards vernacular architecture. Works by the Italians Luigi Angelini, Alberto Alpago Novello, Ottavio Cabiati, Alessandro Minali
Wind and the villages in Rincón de Ademuz, Spain
Vernacular features in eclectic architecture from the tropics. An analysis by means of architectural survey
Configuring, building and inhabiting the house from a gender perspective
Rediscovering tradition through representation: the vaulted house of the Amalfi Coast 133 <i>B. Messina, S. Morena, C. Ferreyra</i>
Traditional dwellings and techniques of the First Indigenous Peoples of South Africa in the Eastern Cape
Rediscovered earth heritage becomes motor for local change The Guérande Peninsula (France)
Tradition and semantics: the case of Aeolian architecture
The Italian case of Leopoldine in Tuscany: methods and issues for the cataloguing of rural building heritage
Highlighting the Heritage of Meseta Ibérica
A heritage to reveal and protect. Historical water-based paper mills and ironworks in Campania (Italy)
Architecture and Proto Industry. Watermills in the historic peri-urban landscape of Benevento (Italy)

An architectural catalogue for the study of traditional building features from their seismic behaviour in the 2016 Central Italy earthquake	197
Earthen vernacular architecture in flood-prone areas: characteristics and typologies in the Ebro basin	205
New studies for the knowledge of the vernacular characters of the ancient water mills in central Sicily	213
Identification and safeguarding of Central Sicily's forgotten vernacular heritage: elements of identity and memory	221
The particular ensemble of Mas d'en Segures: Functional and constructive analysis of a house and a barn in Tinença de Benifassà (Castellón, Spain)	229
In the shadow of Vesuvius. Sustainable and bioclimatic lessons from a vernacular heritage	237
URBAN STUDIES OF VERNACULAR ARCHITECTURE	
The rural founding villages of the Italian Agrarian Reform in Basilicata (1950-1970): urban planning and 'modern' vernacular architecture to the test of contemporaneity. The case of Borgo Taccone (MT)	247
Vernacular architecture and written sources: the case study of the Tronto Valley	255
Urban vernacular architecture in the Middle Ages in Galicia, Spain	263
Binibeca Vell. Interpreting tradition	271
Mapping spatial social aspects of urban recovery in contested cities: a case of the historic commercial center of the ancient city of Aleppo	279
Contributions of the vernacular heritage in the current city. Case study: Santo Domingo Neighborhood, Tuxtla Gutiérrez, Chiapas, Mexico	287
The town of Collodi: the vernacular heritage	293

Between landscape and fortified architecture: traces and memory of rural civilization in the territory of Pesche in Molise
Light Touch on the land – continued conversations about architectural change, informality and sustainability
STUDIES OF TRADITIONAL TECHNIQUES AND MATERIALS
The stone as constant presence: vernacular structure of the cultural heritage of Porcuna (Andalusia, Spain)
From natural to artificial: vernacular housing in the Spanish Caribbean
Designing with water for climate change adaptation and cultural heritage preservation 335 <i>A. Elnokaly, W. Pittungnapoo</i>
La Vera's vernacular architecture. Structural design and climate protection in timber frame wall houses using constructive systems and local materials
Traditional buildings for tobacco processing in Val Tiberina (Tuscany-Italy)
The parish church of San Michele Arcangelo in Metelliano: the path of knowledge of a vernacular architecture
Indoor air quality for sustainability, occupational health and classroom environments through the application of earth plaster
The importance of water in traditional gypsum works
State of conservation of half-timbered walls in Burgos (Spain): Quantitative analysis of material and structural degradation
Adobe Constructions – Colonial Chilean House
Favignana bio-calcarenite: technological culture, knowledge and recovery
Examination of earthen construction in archaeological sites of the Iberian Peninsula for risk analysis

Traditional mortars with chucum in Yucatan, Mexico, as biocultural heritage
Dry Stone Wall Relics as a Part of Cultural Landscapes: A Case Study from the Foot of Mt. Hira Region in Japan
The paving of ancient paths, testimony of an ancient culture: recovery of a traditional route in Genoa (Liguria, Italy)
Constructive and earthquake-resistant aspects of modelled-earth, a technique in ancient Peru
Research on technique "Banzhu" used in traditional dwellings in China from the perspective of formwork
SUSTAINABILITY OF VERNACULAR ARCHITECTURE
Traditional Bukharian Houses and Mahallas: a shared vernacular heritage at risk
A look on the intrinsic sustainability of Aeolian vernacular architecture
The Z Free Home – inspired by vernacular architecture
Proposals for the sustainable recovery of dry stone buildings in Puglia, Italy
Casa Nautilus Solar – Organic contemporary Architecture based on Vernacular Heritage
Making our Rural Landscape visible. A way to defend Anonymous Cultural Heritage 491 A. Martínez Duran, M. Villaverde Rey
Shuar architecture as a model of sustainability
Dry stone architecture: the survey as a tool to safeguard the risk of morphological or formal homologation
At the roots of sustainability: Mediterranean vernacular architecture
Lessons from the past, architecture for the future. Coupling historic preservation with sustainable architecture

HERITAGE EDUCATION

RESEARCH IN HERITAGE EDUCATION

Community School Museums as a tool for education	537
The interpretation of the vernacular in the modern work of Gherardo Bosio: the Albanian experience	545
"For sale: empty Spain" Raising awareness on abandoned buildings and depopulated villages	553
V. Cristini, J. L. Baró Zarzo, C. Mileto, F. Vegas, M. Caruso, E. Tortajada Montalva	
Qualitative, historical, spatial, stylistic, and social assessment of heritage buildings in Arequipa for Cultural Heritage teaching in Schools of Architecture	559
T. B. Medina-Sánchez, D. L. Mayta-Ponce, D. Málaga-Montoya, S. Coll-Pla, F. A. Cuzziramos-Gutiérrez, A. Costa Jover	
Vernacular architecture and art. The representation of traditional buildings in Lorenzo Ghiberti's Gates of Paradise in the Baptistery of Florence	567
Defensive architecture and heritage education: analysis of the National Park Service and Parks Canada actions	575
HERITAGE EDUCATION AND SOCIAL INCLUSION	
Gibellina and the identity of community. Brandi, Burri and the conservation of the 'ruins'	585
C. Accetta	
The perceptive experience of the heritage landscape	593
The Role of University in Local Cultural Development Through Vernacular Architectural Conservation Education: The Case of Havran, Turkey	599
The role of cultural heritage in urban reuse	607
Involving society in the enhancement of old city centres	615
3D Heritage as a catalyst for social participation in safeguarding cities in conflict. A Case study of Damascus in Syria	623

2022, Editorial Universitat Politècnica de València

Heritage education as an effective approach to enhance community engagement: a model for classifying the level of engagement	. 631
Preservation and promotion of the cultural heritage through University, public administration, and community engagement	. 639
'Acupuncture of Awareness': a possible path for vernacular heritage preservation	. 647
HERITAGE COMMUNITIES	
Overlooked heritage of Albania: chronicle of rescue, conservation and community involvement at Great Prespa Lake	. 657
The appropriation of traditional houses in Imbros/Gökçeada	. 663
The SDGs as a useful tool in vernacular architecture management: The case of "17 objectives and a map"	. 671
An Odyssey to Heritage Education: The Inspiring Example of Bergama and Its Communities	. 679
The role of heritage communities in local development processes through the reuse of architectural heritage. Some examples in italian rural areas	. 687
CREATIVITY AND HERITAGE EDUCATION	
Strategies for the recognition and the enhancement of the cultural heritage in Sant'Antioco	. 697
A collaborative Web App to foster a knowledge network on vernacular heritage, craftspeople, and sustainability	. 703
Cultural heritage: educating the next generation. Case study analysis of the Center of Preservation Research	. 711
ARTISANS AND CRAFTS OF TRADITIONAL CONSTRUCTION INTANGIBLE HERITAGE: THE MANAGEMENT OF KNOW-HOW AND LOCAL CONSTRUCTION CULTURE	
The towns of the Popocateptl Volcano. Territorial symbolism, cultural identity and vernacular architecture	. 721

2022, Editorial Universitat Politècnica de València

platforms. La Fontanalla neighbourhood as a case study	29
The struggle for Stone-dry walling: the ambition to protect both processes and products	;7
From intangible to tangible. Artisan Skills and Traditional Crafts for Preserving Venice's Built Heritage	ŀ5
TRADITION AND INNOVATION IN TRADITIONAL CONSTRUCTION CRAFTS	
The Craft of Stucco Mihrab carving in Oman in the 13th to 17th AD	55
From prototypes to monotypes. Neo-craftsmanship in architecture and design	53
PLANS AND EXPERIENCES FOR THE RECOVERY AND MAINTENANCE OF CONSTRUCTION CRAFTS	
Vernacular architecture and seismic risk. The case of Mugello in Tuscany	13
Pinnettas de pedra: a guide for the valorisation of dry-stone artifacts	31
Vernacular architecture and traditional trades. Social innovation and cultural heritage in rural Andalusia	39
The role of craftsmanship in the conservation of Venice. State of the art and perspective)7
CONSERVATION, RESTORATION AND ENHANCEMENT OF VERNACULAR ARCHITECTURE CONSERVATION AND RESTORATION PROJECTS OF VERNACULAR ARCHITECTURE	
Is there a future for marginal communities?)7
Restoration of the stained glass windows of the British Cemetery of Valencia	5
Studies and projects for the archaeological park of the Nuraghe s'Urachi (Sardinia, Italy). From knowledge for heritage conservation to project for the community	23
Vernacular heritage protection by the Superintendence of the Aosta Valley	31

© BY-NC-SA 2022, Editorial Universitat Politècnica de València

Of earth, stone and wood: the restoration and conservation of a Buddhist temple in Ladakh, Indian Himalayas	. 839
The <i>hórreos</i> in Riaño Mountain, León, Spain. Vernacular architecture between conservation and musealisation	. 847
Restoration project of vernacular architecture affected for ground subsidence: A case study in Juslibol Church (Zaragoza, Spain)	. 855
Farmhouse interior restoration in bioconstruction	. 863
After the earthquake. Design processes for intervention on vernacular heritage in Central Italy	. 871
Implementing the lesson of early 20th century traditional buildings for a real sustainability. The examples of Corviale (Rome) and ZEN (Palermo) districts	. 879
From rural house to "villa of delights": knowledge and conservation of Villa Murat in the Sorrento peninsula	. 889
Vernacular earthen architecture. Construction techniques and restoration. From the international setting to some specific Italian regional cases	. 897
Rigour, methodology and use, success in heritage conservation: the tower of the St. Mary Magdalene's church	. 905
Strategies to value the dispersed heritage of rural Andalusia. Lagares, paseros and vineyards: the architecture of the raisin	. 913
Guidelines for the conservation of the ancient hydraulic mills of the Valle Sabbia, Brescia (Italy)	. 921
Bazaars between documentation and conservation. Case studies in Albania and Macedonia	. 929
Perspectives for the small historical centres at risk of abandonment. A pilot project for the Granfonte district in Leonforte (Italy)	. 937
Repair grants for historic farm buildings in Dartmoor National Park	. 945

MATERIALS AND INTERVENTION TECHNIQUES FOR VERNACULAR ARCHITECTURE
Syrian earthen villages: recovery of construction crafts to revive dome houses
Historic tuff masonry in Naples: different approaches to its conservation
Vernacular architecture on archaeological remains. Conservation and enhancement of the "Villa San Limato" in Cellole
Conservation and restoration of timber architecture in the Czech Republic
Effects of the use of plant mucilage on the physico-mechanical properties of raw earth structures
Vernacular architecture and archaeological remains. Direct links in the Phlegraean Fields in Campania (Italy)
DIFFICULTIES AND POSSIBILITIES OF USING TRADITIONAL CRAFTS IN CONSERVATION
Impediments to Sustenance and Revival of Vernacular Architecture in Rural Madhya Pradesh, India
MANAGEMENT AND MAINTENANCE OF VERNACULAR ARCHITECTURE
Ghadames, Libya. A traditional earthen settlement, resilient to crises and environmental challenges
Architectural Heritage and seismic vulnerability: mapping the available knowledge to reduce damage during an emergency
Analysis and regeneration strategies for the abandoned villages of the Santerno valley in Tuscany
Learning from the past. The loss of vernacular heritage in the interest of hydropower development in Spain
Post seismic intervention strategies over the last fifty years in Italy (1968 – 2016). Initial observations about the vernacular architecture's conservation

HERITAGE 2022 - International Conference on Vernacular Heritage: Culture, People and Sustainability September 15th-17th, 2022 Valencia, Spain

Close to the volcan. Knowledge, conservation and enhancement of a Vesuvian vernacular heritage	055
Heritage and community centre in Matta Sur, Chile	063
Local materials and traditions in the conservation of vernacular buildings 1 C. Rodrigues	071
Vernacular earthen architectures. Institutionalisation and management models for its conservation in northern Argentina	077
Protection and reuse of a forgotten heritage: the Parmesan cheese buildings. Notes for a widespread museum in the lower Reggio Emilia plain	085

AUTHORS INDEX

HERITAGE 2022 - International Conference on Vernacular Heritage: Culture, People and Sustainability

September 15th-17th, 2022 Valencia, Spain

Doi: https://doi.org/10.4995/HERITAGE2022.2022.15218

Is there a future for marginal communities?

Martina Bocci¹

¹ DIST, Politecnico di Torino, Turin, Italy, martina.bocci@polito.it

Topic: T4.1. Conservation and restoration projects of vernacular architecture

Abstract

In relatively marginal and isolated settings, changes in socio-cultural contexts and population reduction have contributed to the decay, abandonment and gradual disappearance of traditional ways of living and vernacular heritage. Associations and foundations often play a key mediating and facilitating role in countering these phenomena, supporting the survival of local communities and tangible and intangible expressions of heritage. In the context of the seminar cycle "Rehabilitation of traditional heritage and local development", ten international case studies of unconventional practices of community-rooted rehabilitation from North and West Africa, South-East Asia, Latin America, and Southern Europe were selected. The cases were analysed through a multi-criteria approach to interpret common features and links in three dimensions: 1) organization and structure of associations and foundations; 2) technical methodology of recovery interventions, emphasizing the mobilization and transmission of traditional knowledge and skills; 3) generative potential for self-sustaining initiatives and community empowerment. Qualitative and quantitative data have been gathered based on a literature review of publications and reports, international seminars, meetings, and semi-structured interviews. The results highlighted the strong relationship between the external actors' success in rooty themselves in the local context and the empowerment of communities as well as the settling of their practices over time. The greatest opportunities for economic and cultural development are those in which a holistic vision in the care of the community and its cultural landscape was adopted. The reinforcement of the role of local craftspeople and inhabitants also proved to be crucial. The study showed that caring for a living heritage and its community implies a sensitivity for the past but also an updating and a creative reinterpretation of heritage in response to present and future demands.

Keywords: cross cultural comparison; rehabilitation of traditional heritage; transmission of construction techniques; sustainable local development.

1. Introduction

This article is part of an ongoing research project funded by the Inter-university Department of Regional and Urban Studies and Planning (DIST) of the Politecnico di Torino. Some associations and foundations were invited to participate in the three editions of the seminar "Rehabilitation of traditional heritage and local development" (RTHLD), organized between 2019 and 2021 by DIST in cooperation

with the School Specialisation "Architectural and Landscape Heritage" (SBAP). Between them, ten international case of unconventional practices community-rooted rehabilitation, from North and West Africa (Terrachidia, Tr), South-East Asia (Tibet Heritage Fumd, THF; Maruyama Gumi, MG; Dry Stone Walling School of Japan, DSW), Latin America (Medesus, Md; Fundación Altiplano, FA), and Southern Europe (Palombar, Pl; Associazione Canova, AC;

BY-NC-SA 2022, Editorial Universitat Politècnica de València

Fondacioni Gjirokastra, FG; Architect Aleksandar Radovic Foundation, ARF) were selected. However, this international perspective is in no way meant to flatten the differences between the various cases under analysis. The research proposes a crosscultural, multi-disciplinary and transversal reading, focusing on the peculiarities of the single cases. The specific and heterogeneous ways of operating on heritage and their contribution the benefit of local communities are analysed.

2. Rehabilitation of traditional heritage and local development

The case studies operate mainly in the restoration of a minor and non-monumental heritage, functional and aimed at satisfying basic needs (Rudofsky 1964): dwellings in villages (FA, Md, ARF, MG, AC) or in the historic quarter of towns (THF, FG), structures connected to rural contexts and productive activities, such as dry stone walls (DSW and Pl) or dovecotes (Pl). It is often a private-owned heritage. Alongside this, public (ARF, FG) or religious heritage, such as mosques and gathering spaces (Tr), temples, churches and monasteries (THF, FA, Md, ARF). It is an indigenous, contextual heritage, that belongs to a place, and that is common and shared in a community or region.

In addition to the recovery of heritage, the thread connecting the cases studied is the relative fragility and marginality of the local contexts: border territories, in some cases recently acquired, high-altitude areas, difficult climates, rugged landscapes, distance from large centres, lack of basic services and infrastructure, lack of job opportunities, where population is shrinking and ageing. In other respects, however, these are strong areas, have remained more protected. managing to maintain their distinctive and traditional characteristics, both in certain social structures and from a cultural point of view. The use of traditional knowledge as a human development asset, through technically and culturally appropriate rehabilitation, and the adoption of a holistic approach to the living heritage and landscape, are creating opportunities for self-sustainable development (Magnaghi, 2010) of such marginal areas. Associations and foundations are contributing to preserving diversity, counteracting standardisation, globalisation and cultural homogenisation, and maintaining livelihoods, enabling the survival of human communities (Bocco in Bocci et al., in print).

3. Methodology

The main sources are the testimonies offered representatives of associations foundations during the RTHLD seminars (in presence in 2019 and virtual in 2020 and 2021). The lectures were followed by round tables with experts and activists, to which participants from the previous editions were invited. These events aimed to establish an international network of collaborations, generating debate on relevant issues such as tourism, interaction with local communities, multidisciplinarity, innovation, potential. The drafting of the proceedings (Bocci et al. in print) was then the occasion for interviews and further investigations.

Case Study	Tibet Heritage Fund	Medesus	Fundación Altiplano	Palombar	Associazione Canova	Fondacioni Gjirokastra	Maruyama Gumi	Terrachidia	The Dry Stone Walling School of Japan	Architect Aleksandar Radovic Foundation
Acronym	THE	Md	FA	PI	AC	FG	MG	Tr	DSW	ARF
Foundation year and place	d 1996 Lhasa, Tibet, CN	1997 Arequipa, PE	2000 Arica, CL	2000 Santo Adrião, PT	2001 Crevoladossola, IT	2001 Gjirokastra, AL	2007 Wajima, JP	2012 Madrid, ES	2012 Tokushima, JP	2016 Niš, RS
Type	NGO, NPO	NPO	Foundation, NPO	ENGO, NPO	Association, NPO	Foundation, NGO, NPO	NPO	NGO	NGO	NGO, NPO
Place(s) of intervention	Tiber Lhasa, Amdo, Kham; Beijing (CN), Nomgon sum (MN), Sikkim, Ladakh (IN)	Valle del Colca (PE)	Arica and Parinacota and other regions of CL	Trás-os-Montes (PT) Val d'Ossola (IT)	Val d'Ossola (II)	Gjirokastra and Berat Oku Noto (JP) (AL)	Oku Noto (JP)	M'Hamid Oasis, MA; Chinguetti, MR	Itnerant in all JP	Gostuša and Justiniana Prima, RS; Trebinje, BA
Scale of the intervention	at present 1 old town and some villages	many villages in a rural area	34 communities on 16,000 km2	some villages in a rural area	at present 1 village	2 cities	some villages in a rural area	some villages	many agricultural areas	2 villages and 1 archeologic site
Funding	grants from other NPOs, fundraising campaigns, government funding 145.000 €/year	government funding, international cooperation grants, local partner funding	government fundings, private donations, sale of services 1.2 million €/year	government funding, public institutional funding	membership dues, institutional grants, sale of courses	EU grants, donations, government funding 2.5 million € in 15 years	sale of services, public services, public fundings around 30,000 €	sale of courses, sale of services, public institutional funding around 30,000 €/year	sale of courses	EU grants, government funding, grants from other NPOs
Origin of the initiator(s)	outsiders (other continents) who live there	insider (same region)	outsiders (other regions) who live there	insiders (same region) outsiders (other countries)	outsiders (other countries)	insiders	outsiders (other outsider region) who live there country)	outsiders (other country)	outsiders (other region)	outsiders (other region)
Active members	5 (artist, architects, others)	1 architect	> 60 (interdisciplinary team)	12 (5 biologists, 2 engineers, others)	<5 (architects, builder) >5 (interdisciplinary team)	>5 (interdisciplinary team)	2 (architect, biologist) 6 architects	6 architects	2 (landscape planner, builder)	<5 (architects)
Subject areas	restoration, handicrafts, planning	planning, restoration, handcrafts	restoration, cultural activities	environmental protection, cultural activities, education	restoration, cultural activities	restoration, cultural activities	landscape design, restoration, cultural activities	restoration, education	landscape design, restoration, education	restoration, education
Collaborations	universities, NGOs	International cooperation, NGOs, institutions, SMEs	universities, NGOs local government, SMEs	NGOs, universities, SMEs	universities	universities, institutions, SME	universities, local schools, local government, GIAHS	universities, NGOs, local government	universities, institutions	institutions, universities, local government
Method	workshop-school in building-site	building-site school, building-site	building-site school (employment + learning), workshop	short courses (1 weekend), work camps (8-15 days)	workshops (7-10 days), building site	building-site, workshops	workshops, short courses	workshops (2/3 weeks long)	workshops (2/3 weeks short courses (2 days)	workshops, summer school volunteer camps (2 months)
Number of initiatives	over 60 projects in es Leh	rehabilitation of 8 village houses	140 initiatives (2002- 2019)	58 international voluntary work camps	around 50 workshops (2002-2019)	over 50 projects	several warehouses restored in few years	17 historic buildings (2012-2020)	around 100 courses (2013-2009)	< 5 interventions
Object(s) of restoration	private houses, religious and historic buildings	private houses, temples	private houses, temples	dovecotes, dry stone walls and other constructions	houses, dry stone walls	monument houses, public and historic buildings	private warehouse	public and religious buildings, gates	dry stone walls	private houses, religious and public buildings
Participants	local masters, inhabitants, young practitioners	local masters, inhabitants	local masters, inhabitants	students, enthusiasts, local masters	students	students, enthusiasts, local masters	students, inhabitants	students, local students, in masters, young people enthusiasts	students, inhabitants, enthusiasts	external masters, students, enthusiasts
Sources and documentation	buildings study, local masters, expertise from outside	old generations, local masters, expertise from outside	old generations, local masters, expertise from outside	local masters	local masters, buildings study	expertise from outside	expertise from outside study	inhabitants, local masters, expertise from outside	old generation, buildings study, local masters	old generation, buildings study

Table 1. Organization and structure; Technical methodology.

Alongside this, the documentation made available online by the associations and foundations was used: all of them, with the exception of Md and MG (the latter only has a blog updated in 2014), have a website and use at least two social channels of communication. In addition to scientific and dissemination publications, manuals, annual interviews, documentaries and participation in seminars and conferences, it was considered important to analyse information extracted from their social channels. For space reasons, only primary sources and main websites have been listed in the references.

4. Cross cultural comparison

The associations and foundations were analysed through a multi-criteria approach in three dimensions, summarised in paragraphs 4.1, 4.2, 4.3 and in Tables 1, 2 and 3. Associations and foundations are referred to in the text following order of relevance. an Α parallel multidisciplinary study was carried out between the case studies, using the information gained from each as a source of analysis and observation of the others.

4.1. Organization and structure

This section, summarised in Table 1, describes some general characteristics of the associations and foundations in order to identify their scale in terms of geographical, economic and workforce. In selecting the case studies, preference was given to initiatives that have been active for at least a decade (ARF excepted) and are still active. Many of the initiatives have evolved significantly over the years (FA, THF, Pl): it was decided to focus on the current situation, adopting 2019 as the reference year, for a pre-pandemic perspective.

Associations and foundations operate mainly as facilitators, coordinators and supervisors of interventions, and fundraisers. Rarely the initiators are people from the communities or

the region (Pl, FG, Md); in most cases they are from other continents (THF), countries (Tr, AC), or regions (MG, DSW, ARF, FA), who have settled since long (this is not the case of Tr, DSW, ARF, though). Almost always increasing is the number of people involved from the sourroundings in their permanent staff; this is particularly significant in FA, THF and Pl, where they exceed 50%.

Multidisciplinary teams cooperate in some cases (FA, TH), while architects predominate in all cases except Pl and DSW. In many cases external support and collaboration are sought in universities and in sister organisations. These broad and horizontal competences allow associations and foundations to deal not only with heritage restoration, but also with environmental protection and conservation (Md, Pl, MG, Tr), landscape design (Md, DSW, AC), management planning (THF), agricultural production (MG, Md, and the Codpa Wine School of FA), improvement of basic services and infrastructure (ARF, Tr, THF, Md, FG), education (Pl, MG), and research. There is a strong focus on keeping the craftspeople's traditions alive (FG, FA, Tr), with initiatives such as THF's Himalayan Bauhaus: a platform to preserve, train, and adapt the wisdom of traditional arts and crafts and apply it to new creations (De Azevedo, Hirako in Bocci et al. in print). Alongside this, are initiatives related to the promotion and rediscovery of the local culinary heritage (MG, FA, FG, ARF), festivals (FA, Md, Pl, FG, AC), and the inclusion of local traditional ceremonies at specific moments in the rehabilitation processes (FA, THF) or the valorisation and use of indigenous languages (FA).

Almost all initiatives relate in some way to tourism – a possible resource but at the same time a threat. FA has developed the Ruta de las Misiones responsible and sustainable tourism plan, which involves and supports local SMEs and promotes the area through editing guidebooks and information (similar actions have also been carried out by THF, Tr, FG, and Md with the community tourism model implemented in Sibayo, Colca Valley).

Financial resources are generally obtained from public funds and/or donations and grants. In the cases of DSW, Tr, AC and ARF the main source of income is course fees. Sanada Junko (DSW) motivates this strategy with the necessity to be independent from uncertain public subsidies to ensure continuity (Sanada in Bocci et al. in print). In some cases, the population co-finaces part of the recovery (THF in Leh). The most significant costs concern building materials and - in case of paid workers involved (FA, Tr, THF, Pl) – salaries.

The scale of the areas of intervention varies greatly, from village systems spread over very large areas (FA, Md, Pl) to the single small village of Ghesc where AC currently operates. In some cases the associations and foundations have moved from one country to another over the years (THF), exported the method (Tr, FA) and provided advice (Tr, FA, Md with FA) in different countries and regions. DSW, on the other hand, is an itinerant school, working throughout Japan.

4.2. Technical methodology

The second dimension is the central theme of this research: the know-why and know-how of heritage rehabilitation interventions. emphasising mobilisation and transmission of traditional knowledge and skills. In order to guarantee a future for the vernacular, it is necessary not only to focus on the preservation of particular artefacts and buildings, but above all on safeguarding and promoting skills to reproduce them (AlSayyad in Asquith, Vellinga, 2006; Bourdieu, 1977).

A first point is the methodologies adopted for the mobilisation of traditional skills. The transfer of knowledge generally takes place through a pedagogy that is not based on language. It is rather a practical, dynamic and reactive transmission through an "on site" apprenticeship:

a traditional way of teaching based on the observation of ways of doing and practice of skills (Marchand in Asquith, Vellinga, 2006). This transmission can take place through courses ranging from a few days (DWS, Pl, FA) to one or more weeks (Tr, AC, Pl, ARF, MG, FG), to experiment with some technique, or to (re)build a portion of an artefact. In this case, the duration of the overall intervention loses its relevance: the purpose being focused on training (Cesprini in Bocci et al. in print). However, it must be emphasised that the techniques are often quite simple, and can be learnt in a short time, whereas knowing how to build with these techniques requires more experience. In addition to this, specialised labour is often called upon to complete certain parts that are difficult to manage with self-construction (AC, Tr).

The other recurring form is training field schools in conventional construction sites, with locals being regularly contracted, under the supervision of master craftspeople and experts (FA, THF, Md, Tr). This mode can directly return part of the investments locally, with a socio-economic impact on positive community, as well as the creation of local skilled labour and teams in contexts where trained local restorers are scarce. At FA the team is organised into senior masters and monitors (often with permanent contracts), training officers and training assistants (hired for each intervention). Skills are transmitted in inspired by the transmission knowledge from one generation of builders to the next, as it is typical of the tradition, achieving a continuous, self-sustaining and selftraining process (Marchand in Asquith, Vellinga, 2006). Theoretical lessons from specialists help to acquire technical and practical skills (Bocci, Yuste, 2020). In some cases, training is also provided through exchange programmes (THF) and learning journeys (FA) abroad, in order to acquire specific skills to grow locally and thus avoid calling specialists from outside - and saving the costs associated with it.

Only rarely the techniques have been codified in catalogues and manuals (MG used information present in blogs). Oral sources are still the main way to transmit traditional techniques, and are mobilised by associations and foundations through involving local residents and builders as trainers in workshops (Tr, Pl). In Tacora, for example, FA revitalised caruna, a family tradition for building ceilings that one of the masons remembered (Yuste in Bocci et al. in print). This knowledge is combined with a meticulous study and a careful observation of buildings and artefacts (ARF, AC, THF), following the footsteps of the craftspeople and creating a connection with past generations (Hirako in Bocci et al. in print). Frequently, experts from outside (FG; Akira Kuzumi, the plaster craftsman, in the case of MG), as well as masters engaged in previous projects, are involved, introducing occasionally exogenous techniques such as the Arga roof Lhasa which was used in the Beri Monastery (THF). Traditional wisdom is complemented by scientific knowledge (Hagino in Bocci et al. in print) from experts such as Julio Vargas Neumann, who supports FA in the adoption of seismic reinforcement.

	THF	Md	FA	Pl	AC	FG	MG	Tr	DSW	ARF
Beneficiaries	X	X	X	X	X	X	X	X	X	X
Requesters	х	X	X	X			<u>.</u>		X	X
Decision-makers	х	X	X			X		X	X	
Owners	x	X	X	X	<u>.</u>	Х	X		X	X
Meetings	X	X	X	<u>.</u>	<u>.</u>	X	<u>.</u>	X		X
(Co)financers	X		X			X	X			
Workshops	x	X	X	X	X	X	X	X	X	X
Trainers	X	X	X	X	X	<u>.</u>	<u>.</u>	X	X	X
Employees	X	X	X	X	X			X		
Autonomous int.	X		X	X	X				X	X
Maintenance	X	X	X	X	X	X	X	X	X	X

Table 2. Involvement of the local community.

In all case studies the involvement of the local community is foreseen – both craftspeople (THF, Tr, FA, Pl) and the inhabitants themselves. Table 2 shows the different ways of community involvement both in a passive form, beneficiaries (often as owners of restored buildings), and in an active form: taking part in strategic decisions – regarding planning, priorities, new functions, technical solutions (FA, Tr), selection of masons (Tr) -, participating in the construction and/or contributing economically (THF). FA and THF have developed communitybased approaches to conservation. Learning the techniques and participating in the construction site can lead the inhabitants to achieve autonomy and responsibility in terms of subsequent maintenance operations (Davis in Asquith, Vellinga, 2006; Illich, 1973). Outsiders such as foreign artisans (THF), traditional techniques enthusiasts (Pl, DSW) and students (Tr, DSW, AC) also participate, frequently as volunteers. Several case studies carry out educational activities about the value of heritage with children and teenagers, trying to overcome the negative perception of traditional techniques (Cruz in Bocci et al. in print) (Tr, FA, DWS, MG).

	THF	Md	FA	Pl	AC	FG	MG	Tr	DSW	ARF
Social surveying	Х	X	X	X		X		X		X
Inventorisation	Х	X	X	X	X	X	X	X	X	X
Protection	х	Х	X	X		X		Х		X
Conservation	Х	Х	X	X	X	X	X	X	X	X
Upgrading	Х	Х	X	X	X	X	Х		Х	
Adoption in new	Х	Х					Х			
Restoration	х		X			X				
Archaeology	Х	Х	X	X		X		Х		X
Services upgrade	Х	X	X	X	X	X		X		X
Diffusion	х	X	X	X	X	X	X	X	X	X
Consultancy	Х	X	X	X	X			X	X	X
Exporting	х	Х	X		Х			Х	х	
Management	Х	Х	X	X						X

Table 3. Activies carried out.

Table 3 describes the types of activities carried out by the associations and foundations.

To understand the population's needs and demands, social surveys are used (FA, Tr): THF spent two years carrying out a detailed study of three neighbourhoods in Beijing, looking at both the architecture and the social conditions.

In almost all analysed contexts, in the last decades a cultural gap interrupted the use, transmission and evolution of traditional building know-how living processes as (Laureano, 1995). To counteract the lose of knowledge, the approaches to heritage involve its documentation and inventorisation, with the drafting of technical manuals and catalogues of buildings (THF's open access Lhasa Archive project; FA's Ruta de las Misiones; ARF's catalogue of 256 houses and the draft of a

priority list of intervention; Tr's survey of each ksar; Pl's database of all the 3450 dovecotes in the Northeast of Portugal; DSW's research on the state of conservation of 252 terraced fields in Tokushima). Next to this, is the preservation and conservation of the built heritage. This is often achieved by obtaining monument/heritage status (FA obtained the declaration of National Monument of 28 out of 34 Andean temples; THF worked with the local government to nominate Leh Old Town as a Heritage Zone), as well as with the recognition as cultural landscape (FA).

Heritage, construction traditions and vernacular know-how represent a dynamic, interactive, collaborative and dialogical process, that can be adapted and upgraded to meet current and future needs through (Harrison 2015, Lawrence in Asquith, Vellinga, 2006; Remotti, 1996; Winter, 2013): adaptive reuse for buildings, often linked to tourism, production or cultural projects (Pl, FA, THF, FG, ARF); technical and living conditions improvement (FA, THF, AC); inclusion of "industrial vitamins" (Harper, Borer in Bocco Guarneri, 2020). In addition, traditional construction techniques may contribute to new building (Oliver, 2003; Vellinga in Asquith, Vellinga, 2006) in some kind of neo-vernacular architecture (Hirako in Bocci et al. in print) such as the 2015 Central Asian Museum in Leh by THF.

4.3. Generative potential

section investigates generative This the potential for self-sustaining initiatives and community empowerment.

A first achievement in the socio-cultural sphere is the change in the perception of heritage: the sense of backwardness and poverty, and the initial distrust, have been replaced by interest, care and collaboration. This reinforced the selfesteem of, and raised awareness among, the residents. According to Carmen Moreno (Tr), the collaboration of locals and outsiders helped this process (Moreno in Bocci et al. in print). Requests for intervention from the population (Pl, THF, FA, ARF, DSW) or local authorities (FA, Tr, FG, Pl, Md) have become frequent. Locals are even promoting autonomous bottomup rehabilitation, just requiring technical advice from associations and foundations. Significant is the case of AC, which stimulated young locals in buying and renovating buildings (Bocci, Mazelli, 2020).

In the socio-economic sphere, the acquisition of tools and skills has enabled participants to implement indipendent interventions (Md, MG, DSW, FA), to set up local enterprises and autonomous activities, and to count on a local and autonomouse capacity to raise funding (FA).

In addition, initiatives such as Md, Pl, MG and DSW also show appreciable achievements in the preservation of environmental biodiversity and symbiotic relationships between humans and nature (Friedman, 1990; Watson, 2019).

5. Discussion and conclusions

This research highlights how fundamental is the external actors' success in rooting for the empowerment of communities, as well as the settling of their practices over time. Cases such as THF, FA, Md, after more than twenty years of cooperation with local communities have managed to create a relationship of cooperation, trust and mutual esteem. Similar results have been achieved by MG and Pl, even though there is some wariness persists (Hagino in Bocci et al. in print) and residents appear less ready to get involved in the process (Guedes in Bocci et al. in print).

Initiatives that took a holistic view of caring for a community and its built, crafts, intangible, and natural heritage offered greater opportunities for economic and cultural development, fostered the maintenance and creation of diversity, and activated circular economies and local productions (Md, FA, MG, Tr, FG, THF).

During the 2019 RTHLD seminar, participants were asked the question "What after?" (Bocco in Bocci et al. in print), i.e. at which point of the competence transmission of community empowerment they felt to be. Only once the independence from external actors is guaranteed, with the creation of self-sustainable local development possibilities (helping communities to earn real money, not subsidies) the processes carried out by associations foundations can be seen as effectively and successfully concluded. According to this study, THF and FA are the most advanced on this journey. FA set up the Escuela de Conservación Sostenible Sarañani!, a participative and selfmanaged programme for the restoration of temples, houses and fields carried out by community members (some of whom went through previous training activities also offered by FA), where FA only contributes technical assistance and training. The research shows that caring for a living heritage and its community implies sensitivity for the past but also a creative reinterpretation of heritage in response to present and future demands. A longterm vision is needed to secure the future of marginal communities (THF, FA, Md), which looks for a holistic, self-sustainable local development through specific, community-based responses (Dematteis, 1994).

6. Future perspectives

The research will continue through field analysis of the work of FA and THF. To return the research results to the participants, a fourth edition of the RTHLD seminar is planned for September 2022.

Acknowledgement

Warm thanks to the participants of the RTHLD seminars: B. Yuste and C. Heinsen (FA); Sanada J. (DSW); E. Lamçe (FG); M. Cesprini (AC); C. Moreno and M. Colmenares (Tr); A. Guillén (Md); Hagino K. (MG); A. Guedes (Pl); E. Vasić Petrović (ARF); Hirako Y. and P. de Azevedo (THF); N. Battaglio and L. Serra (Banca del Fare); E. Cruz; Taki Y.; C. Devoti (SBAP); A. Longhi, R. Mazelli and A. Bocco (DIST).

References

Asquith, L., Vellinga, M. (eds.) (2006). Vernacular Architecture in the twenty-first century. xvii-xviii. Taylor & Francis.

Bocci, M., Mazelli, R. (2020). In search of a contemporary hyaku-sho. Journal of Traditional Building, Architecture and Urbanism, 1, pp. 301–308.

Bocci, M., Yuste, B. (2020). Recovering the heritage and building traditions of the village of Tacora, Chile. Journal of Traditional Building, Architecture and Urbanism, 1, pp. 235-240.

Bocci, M., Mazelli, R., Bocco, A. (eds.) (in print). Rehabilitation of traditional heritage and local development. Politecnico di Torino.

Bocco Guarneri, A. (2020). Vegetarian Architecture. Case Studies on Building and Nature. Jovis.

Bourdieu, P. (1977). Outline of a Theory of Practice. Cambridge University Press

Dematteis G. (1994). Possibilità e limiti dello sviluppo locale. Sviluppo locale, pp. 10-30.

Friedman, Y. (1990). L'architettura di sopravvivenza. Una filosofia della povertà. Bollati Boringheri.

Harrison, R. (2015). Beyond "Natural" and "Cultural" Heritage: Toward an Ontological Politics of Heritage in the Age of Anthropocene. Heritage & Society, 8:1, 24-42. Illich I. (1973). Tools for conviviality. Harper and Row.

Laureano P. (2013). La piramide rovesciata. Il modello dell'oasi per il pianeta terra. Bollati Boringhieri.

Magnaghi, A. (2010). Il progetto locale. Verso la coscienza di luogo. Bollati Boringheri.

Oliver, P. (2003). Dwellings: The Vernacular House World Wide. Phaidon.

Remotti F. (1996). Contro l'Identità. Laterza

Rudofsky, B. (1964). Architecture without Architects. Doubleday & Co

Watson E. (2019). Lo-Tek. Taschen

Winter, T. (2013). Clarifying the critical in critical heritage studies, International Journal of Heritage Studies, 19:6, pp. 532-545.

https://www.tibetheritagefund.org/ http://www.tibetheritagefund.org/old web 2002/2 lhasa/ 2_06/2_06_00_en.html

FA: https://www.fundacionaltiplano.cl/

Pl: https://www.palombar.pt/pt/

AC: https://www.canovacanova.com/

FG: http://www.gjirokastra.org/gjirokastra-foundation/

Md: http://maruyamagumi.blog102.fc2.com/blogdate-201011.html

Tr: https://terrachidia.es/

DSW: https://ishizumischool.localinfo.jp/

ARF: http://www.fondar.rs/

CC) BY-NC-SA 2022, Editorial Universitat Politècnica de València





HERITAGE 2022 INTERNATIONAL CONFERENCE VERNACULAR HERITAGE: CULTURE. PEOPLE AND SUSTAINABILITY

Eds. C. Mileto, F. Vegas, V. Cristini, L. García-Soriano

Vernacular architecture, tangible and intangible heritage of great importance to European and global culture, represents the response of a society culturally linked to its territory, in terms of climate and landscape. Its construction features are born from the practical experience of the inhabitants, making use of local materials, taking into consideration geographical conditions and cultural, social and constructive traditions, based on the conditions of the surrounding nature and habitat. Above all, it plays an essential role in contemporary society as it is able to teach us important principles and lessons for a respectful sustainable architecture.

Vernacular Heritage: Culture, People and Sustainability will be a valuable source of information for academics and professionals in the fields of Environmental Science, Civil Engineering, Construction and Building Engi-neering and Architecture.