STATEMENTS

for Teaching through Design for Sustainability of the Built Environment and Heritage Awareness

EDITORIAL BOARD

VLADAN DJOKIĆ
ANA NIKEZIĆ
MAR LOREN-MÉNDEZ
KONSTANTINOS SAKANTAMIS
MARIA PHILOKYPROU
EMANUELA SORBO
JOSÉ PÉRAL LÓPEZ

PARTNERS:

The University of Belgrade - The Faculty of Architecture // Serbia The Iuav Universita of Venice // Italy The University of Cyprus // Cyprus The Aristotle University of Thessaloniki // Greece The University of Seville // Spain

INTELECTUAL OUTPUT 3 2021

CONTRIBUTORS:

HERSUS CONSORTIUM MEMBERS

UB-FA
Vladan Djokić
Ana Radivojević
Ana Nikezić
Jelena Živković
Nataša Ćuković Ignjatović
Milica Milojević
Jelena Ristić Trajković
Aleksandra Milovanović
Aleksandra Đorđević
Mladen Pešić
Bojana Zeković
Ana Zorić
Nevena Lukić

IUAV Emanuela Sorbo Enrico Anguillari Sofia Tonello

UCY
Maria Philokyprou
Aimilios Michael
Panayiota Pyla
Odysseas Kontovourkis
Maria Nodaraki
Theodora Hadjipetrou
Stavroula Thravalou
Andreas Savvides

AUTH Konstantinos Sakantamis Alkmini Paka Kleoniki Axarli Maria Doussi Angeliki Chatzidimitriou Sofoklis Kotsopoulos

USE
Mar Loren-Méndez
José Peral López
Julia Rey-Pérez
Marta García-Casasola Gómez
Daniel Pinzón-Ayala
Enrique Larive López
Roberto F. Alonso-Jiménez
María F. Carrascal Pérez
Marta Freniche Velázquez



External collaborators: Marco Chiuso Mauro Marzo Maddalena Bassani Viviana Ferrario Iordanis Sinamidis Dario Trabucco Constantinos Vassiliades Chryso Heracleous Danae Zacharia Giulia Rossi Gianluca Spironelli Caterina Balletti José M. Aladro Prieto Víctor Fernández Salinas Angel González Morales Celia López Bravo Celia Martínez Yáñez Pablo Millán Millán Daniel Navas Carrillo Lourdes Royo Naranjo Victoria Segura Raya

IMPRESUM

EDITORIAL BOARD: Vladan Djokić, Ana Nikezić, Mar Loren-Méndez, Konstantinos Sakantamis, Maria Philokyprou, Emanuela Sorbo/ HERSUS Scientific Coordinators

TITLE

Statements for Teaching through Design for Sustainability of the Built Environment and Heritage Awareness

PUBLISHER University of Belgrade, Faculty of Architecture

DESIGN LAYOUT Aleksandra Milovanović, Aleksandra Đorđević, Ana Zorić, Mladen Pešić

Fisrt edition, 2021

ISBN 978-86-7924-281-5

Statements for Teaching through Design for Sustainability of the Built Environment and Heritage Awareness IO3 lead: Vladan Djokić, Ana Nikezić, UBFA

HERSUS Project leader: Vladan Djokić, UBFA

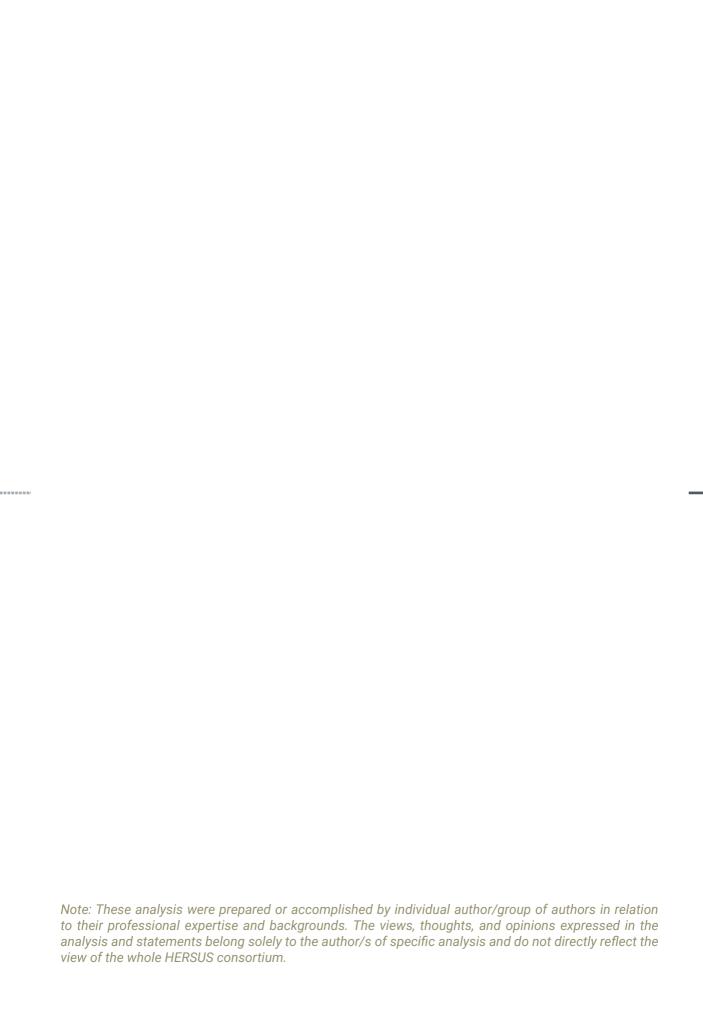


Content

Indroduction	7	
How to read	10	
TERMS	12	
NOTIONS	Cultural and Collective Memory Urban Narratives Resilience Urban Patterns Heritage genealogy Cultural Studies, Cultural Diversity Cultural Identity Cultural Enhancement Cultural Heritage	14 22 30 38 46 54 62 70 78
HERITAGE TYPES	Modern Heritage Industrial Heritage Vernacular Heritage Performative and Affective Heritage Tangible and Intangible Heritage Cultural Landscape Urban Heritage Monumental Heritage Emerging Heritage Documentary Heritage Archaeological Heritage Heritage Sites Natural Heritage Military Heritage	87 96 104 112 128 136 144 152 160 168 176 184
DESIGN APPROACHES	Heritage Reprograming Construction Centred Design Environmentally Responsive Design Energy Conscious Design Climate Sensitive Design Whole-Lifecycle Design Carbon Neutral Design	202 210 218 226 234 242 250

	Passive/Active Sustainable Design Community Building and Representation Renewable Energy Integration Historical Urban Landscape- HUL Design for All in Cultural Heritage Thermal Comfort Design Visual Comfort Design Green Blue Infrastructure Acoustic Comfort Design Multiscale Design Approach	258 266 274 282 290 298 306 314 322 330
DESIGN ACTIONS	339	
TOOLS	Preventive Conservation Integral Heritage Protection Conservation Restoration Redevelopment Adaptive Reuse Consolidation Temporary planning and Meanwhile spaces Refurbishment/Rehabilitation Heritage Management Nature Based Solutions Public Advocacy for Social Participation	340 348 356 364 372 380 388 396 404 412 420 428
	Circular Economy Developing Cultural Routes and Itineraries Microclimate Improvement	436
TOOLS	461	
	Image Rectification 3D printing As-Built / As-Found Recording Space Syntax Morphogenesis Study Mapping, Documenting, Cataloguing Use of GIS Technology Historic Building Information Modelling - HBIM	462 470 478 486 494 502 510 518
	Colaborative Cartography Collaborative workshop - CHARRETTE Artistic approaches (photography, video, performance)	526 534 542
	Heritage Value Matrix Thermal/Energy Simulation Lighthing Simulation (Post)-occupancy evaluation Petrography Conservation Status Evaluation Archaeometry Digitalization of Heritage	550 558 566 574 582 590 598 606

Conclussions 611



N N

×

Daniel Pinzón-Ayala

14/14

heritage types

statements

MILITARY HERITAGE

војно наслеђе • Beni culturali rilevanti per la storia militare • Ιστορικές Στρατιωτικές Ενκαταστάσεις (Στρατιωτική κληρονομιά) • Patrimonio Militar

Military heritage comprise of any structure built with either natural (i.e., botanical, or geological) or syn-thetic materials, by a community to protect themselves from assailants or, in some countries today, for the maintenance of public safety, Such structures include, works of military engineering, fortifications, arsenals, harbors and naval Shipyards barracks, military bases, barracks with military houses, bunkers, testing fields, and other enclaves and constructions built or used for military, offensive and defensive purposes. Military cultural landscapes include but are not limited to territorial or coastal defense installa-tions and earth Works, which have made it possible to conserve natural spaces that, in several cases, have been transformed into natural parks and protected areas. Their presence in historically warlike terri-tories such as the Mediterranean has given them a series of values similar to those of other buildings and heritage sites, but they also possess specific values that must be carefully studied, analysed and conserved, as they form part of our past and recent history and have conditioned the evolution of our cities and territories.

RELEVANT LITERATURE / SOURCES FOR FURTHER RESEARCH

- [1] ICOFORT. ICOMOS Guidelines on Fortifications and Military Heritage (2021). France: ICOMOS.
- [2] ICOFORT. Final Draft ICOFORT Charter on Fortifications and Military Heritage; Guidelines for Protection, Conservation and Interpretation (2020). France: ICOMOS.
- [3] International Society for Mediterranean Fortifications, FORTMED (2015-2020). *Defensive Architecture of the Mediterranean*, 12 vols.
- [4] Instituto del Patrimonio Histórico Español (2010). *Plan Nacional de Arquitectura Defensiva*. Spain: Ministry of Education, Culture and Sport.
- [5] Klupsz, L. (2008). The spirit of the military heritage places. In Proceedings of the 16th ICOMOS General Assembly and International Symposium: 'Finding the Spirit of Place—between the Tangible and the Intangible', Quebec, QC, Canada, 29 September—4 October 2008; 1–11.
- [6] Instituto del Patrimonio Histórico Español (2006). "Baños de la Encina" charter for the conservation of the defensive architecture in Spain. Spain: Ministry of Culture.
- [7] Kaufmann, J.E. & Donnell, C. (2004). Modern European military fortifications. 1870-1950: A Selective An-notated Bibliography. Westport: Praeger.
- [8] Floyd, D.E. (1992). *Military Fortifications:* A Selective Bibliography. Westport: Greenwood Press.

