

BioVernacular - Research Project Fact Sheet

Title of Project	Innovative Methods for Protection and Conservation of Sustainable
	Design Elements of Vernacular Architecture in the Historic Centre
	of Nicosia - completed
Project Acronym	BioVernacular
Funding Program	Project Technological Development and Innovation Δέσμη 2009-
	2010, Research Promotion Foundation, Cyprus
Project Identifier	ΑΝΘΡΩΠΙΣΤΙΚΕΣ/ΑΝΘΡΩ/0609/ΒΙΕ
Total Budget	100000 €
Starting – Ending Date	06/2012-08/2014
Consortium	 Municipality of Nicosia, Coordinator (CY)
	2. University of Cyprus (CY)
	3. ICOMOS (CY)
	4. Frederick Research Centre (CY)
Project Objectives	1. This research project explored innovative methods for the con-
	servation and restoration of traditional buildings, giving empha-
	sis on the preservation of the elements of their bioclimatic de-
	sign, by identifying factors that contribute to a pleasant environ-
	ment and thermal comfort.
	2. A large number of traditional buildings within the historic centre
	of Nicosia were studied, with focus on the areas of Kaimakli and
	Chrysaliniotissa. The organic and typological structure of these
	buildings (orientation, ventilation, shading and lighting) and the
	choice of building materials were investigated.
	3. Temperature and humidity measurements were recorded during
	the different seasons of the year in order to establish data tables
	for further analysis. Through these qualitative and quantitative
	recordings, the study aimed at identifying bioclimatic design
	principles and elements which have been applied, over time, in
	traditional structures.
	4. Modelling and simulation of data led to the identification of vari-
	ous parameters which improve the energy efficiency of build-
	ings.
	5. The overall goal of the program was to highlight the environmen-
	tal aspects of vernacular architecture and to design a set of
	guidelines and proposals for the proper restoration of traditional
	buildings, with emphasis on the maintenance/enhancement of
	bioclimatic characteristics and environmentally friendly ap-
	proaches.
Work Packages	WP1: Project Management
-	WP2: Project Dissemination and Exploitation of Results
	WP3: Database of bioclimatic parameters of vernacular buildings in
	the historic centre of Nicosia
	WP4: Recordings of temperature and humidity, benchmarking of
	recorded data, laboratory measurements to determine the main
	characteristics of the principle traditional materials.
	WP5: Modelling and Simulation of data
	WP6: Suggestions and Rehabilitation Proposals. Conclusions.
External References	http://www.biovernacular.ac.cy
	https://doi.org/10.1007/s41024-016-0021-6