

SupERB - Research Project Fact Sheet

Title of Project	Novel integrated approach for seismic and energy upgrading of ex-
Draigat Agramym	Isting buildings - completed
Filipect Actoriyi	Superior Superior Equipation Drogrammer for Research
Funding Flogram	Technological Development and Inneviation "Postart 2016 2020"
Draiget Identifier	Smort Crowth Integrated Projects
	1146921€
Starting – Ending Date	12/2018-11/2021
Consortium	1. Cyprus University of Technology, Coordinator (CY)
	2. University of Cyprus (CY)
	3. Frederick Research Center (CY)
	4. Isircon Co. Ltd (CY)
	5. Geoinvest Ltd (CY)
	6. AuDeSy Ltd (CY)
	7. Limassol Municipality (CY)
	8. Technical Services on Construction Products, Ministry of Inte-
	rior (CY)
	9. Energy Service, Ministry of Energy, Commerce, Industry and
	lourism (CY)
	10. Cyprus Scientific and Technical Chamber ETEK (CY)
	11. Department of Civil Engineering, University of Patras (GR)
Project Objectives	<u>General:</u>
	The objectives of the Project entitled "Novel integrated approach for
	Seismic and Energy upgrading of existing Buildings" (SupERB) are
	to a) integrate innovative materials and determine techniques ena-
	bling the simultaneous upgrading of both seismic resistance and en-
	ergy efficiency of existing buildings, b) evaluate these techniques by
	testing both small and full-scale specimens, and c) propose a holis-
	tic and novel methodology for the optimum upgrading of existing
	buildings for seismic resistance and energy efficiency, taking into
	account economic, technical, geo-location, durability and environ-
	mental factors.
Work Packages	1. WP1 Project Coordination
	2. WP2 Dissemination of results
	3. WP3 Investigation of mechanical and thermal properties of
	available materials
	4. WP4 Establishment of criteria for target performance level
	5. WP5 Laboratory-based design and testing of the PCM re-
	lated upgrading system
	6. WP6 Testing of the upgrading system for seismic and energy
	performance evaluation
	7. WP7 Optimisation tool and upgrading methodology devel-
	opment
	8. WP8 Application study
	9. WP9 Software development and methodology guidelines
External References	https://doi.org/10.1016/j.conbuildmat.2022.129984
	<u> https://doi.org/10.1016/j.dib.2020.106599</u>