





RE-BUILT Project 2018-1-RO01-KA203-049214 Co-funded by the Erasmus+ Programme of the European Union

PROGRAMME OF THE RE-BUILT MULTIPLIER EVENT IN THE FORM OF THE KNOW-RE-BUILT INTERNATIONAL CONFERENCE DECEMBER 15-16, 2021 ONLINE

Day 1: December 15th, 2021

- 11:00 11:15 Technical check of participants' MS Teams connections
- 11:15 11:30 Welcome speech by Prof. Dorina-Nicolina ISOPESCU, Ph.D. Dean of the Faculty of Civil Engineering and Building Services, TUIASI, Romania Brief presentation of the RE-BUILT Project by Assoc. Prof. Ancuţa ROTARU - RE-BUILT Project Manager, TUIASI, Romania

11:30 - 13:15	PANEL 1	Chairpersons: Prof. Maura IMBIMBO (University of Cassino and Southern Lazio, Italy), Dr. Ionuţ-Ovidiu TOMA ("Gheorghe Asachi" Technical University of Iaşi, Romania) Dr. Vera GLISNIKOVA (Brno University of Technology, Czech Republic)	
TOPIC 1: Vulnerability, seismic survey and HBIM-based structural analysis			
Time slot	Title / Authors		Presenting author / Affiliation
11:30 - 11:45	Seismic capacity assess	sment and rehabilitation of railway masonry arch bridges	Andrea CAPORALE
	Andrea Caporale		University of Cassino and Southern Lazio, Italy







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11:45 - 12:00	Romania	ving situation of technical expertise and rehabilitation of existing buildings in eliu Păuleț-Crăiniceanu, Septimiu - George Luca, Cristian Pastia, Octavian - Victor	Vitalie FLOREA "Gheorghe Asachi" Technical University of Iași, Romania
12:00 - 12:15	Mitigate seismic sustainability asso	liquefaction with nanosilica grout injection: engineering principle and essment at the urban scale <i>vinio Salvatore, Giuseppe Modoni</i>	Luca PAOLELLA University of Cassino and Southern Lazio, Italy
12:15 - 12:30	Masonry Structur Codes	es FE Simulations for Technical Assessment According to Romanian Design ghiac, Cerasela-Panseluța Neagu	Vasile-Mircea VENGHIAC "Gheorghe Asachi" Technical University of Iași, Romania
12:30 - 12:45	Influence of the "	aggregate effect" on the seismic vulnerability of Italian historical centers niara Bartolomeo, Ernesto Grande, Maura Imbimbo	Valentina CIMA University of Cassino and Southern Lazio, Italy
12:45 - 13:00	Case study on shear walls placement in the rehabilitation of a multistorey residential building Ioana Olteanu-Donţov, Andrei-Samuel Iacoviţă		Andrei-Samuel IACOVIȚĂ "Gheorghe Asachi" Technical University of Iași, Romania
13:00 - 13:15	Advanced finite e railway station St <i>Roberto Cudmani</i>	lement analysis to investigate the soil-structure interaction of the new uttgart 21	Roberto CUDMANI Technical University of Munich. Germany
13:15 - 15:00	Lunch Break		
15:00 - 18:30	PANEL 2	Chairpersons: Prof. Dashnor HOXHA (University of Orleans, France Prof. Wynand STEYN (University of Pretoria, South A Dr Ioana OLTEANU-DONȚOV ("Gheorghe Asachi"	Africa)
		OPIC 2: The Durability of Sustainable Materials and Str	
Time slot	Title / Authors		Presenting author / Affiliation
15:00 - 15:15	concrete design	zation of the mixture proportions of concentrated suspensions for sustainable Mohamed El Karim Bouarroudj, Dashnor Hoxha	Karim BOUARROUDJ University of Orleans, France
15:15 - 15:30		ermal conductivity of mortar with a novel carbon based nano-material	Mihai-Sergiu ALEXA-STRATULAT







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	Mihai-Sergiu Alexa-Stratulat, Daniel Covatariu, Ana-Maria Toma, Ancuța Rotaru, Gabriela Covatariu, Ionuț-Ovidiu Toma	"Gheorghe Asachi" Technical University of Iași, Romania
15:30 - 15:45	Calculation of Textile Membrane Cover Tetrapod Footing for the Prehistoric Site Yunatsite Nikolay Kerenchev	Nikolay KERENCHEV "Todor Kableshkov" University of Transport Sofia, Bulgaria
15:45 - 16:00	Experimental tests of T joints made of thin-walled steel profiles assembled with steel rivets George Țăranu, Vasile-Mircea Venghiac, Ancuța Rotaru, Ionuț-Ovidiu Toma	George ȚĂRANU "Gheorghe Asachi" Technical University of Iași, Romania
16:00 - 16:15	Time-dependent behavior of Callovo-Oxfordian claystone for nuclear waste disposal: uncertainty quantification from in-situ convergence measurements Duc Phi Do, Ngoc Tuyen Tran, Dashnor Hoxha, Minh Ngoc Vu, Gilles Armand	Duc Phi DO University of Orleans, France
16:15 - 16:30	Modeling of sustainable composite materials for strengthening applications of masonry structures <i>Chiara Bartolomeo, Valentina Cima, Ernesto Grande, Maura Imbimbo</i>	Chiara BARTOLOMEO University of Cassino and Southern Lazio, Italy
16:30 - 16:45	Research and optimization of the vibration-insulating characteristics of the filler material in the construction of vertical partitions for the foundations of buildings and facilities <i>Chavdar Kolev</i>	Chavdar KOLEV "Todor Kableshkov" University of Transport Sofia, Bulgaria

16:45 - 17:00 Break

TOPIC 3: Geoenergy

Time slot	Title / Authors	Presenting author / Affiliation
17:00 - 17:15	A coupled distinct element modeling method for gas production on methane hydrate bearing	Yiru CHEN
	sediments	BOKU Vienna, Austria
	Yiru Chen, Wei Wu, Mingjing Jiang	
17:15 - 17:30	Geothermal Energostructures	Augustin LEITER
	Augustin Leiter	Brno University of Technology, Czech Republic
17:30 - 17:45	Structural response of renewable energy storage pile foundations	Dichuan ZHANG
	Dichuan Zhang	Nazarbayev University, Kazakhstan
	<i>Yiru Chen, Wei Wu, Mingjing Jiang</i> Geothermal Energostructures <i>Augustin Leiter</i> Structural response of renewable energy storage pile foundations	Augustin LEITER Brno University of Technology, Czech Republic Dichuan ZHANG

TOPIC 4: Transformation of the built environment for the rehabilitation of socially disadvantaged city districts

Time slot	Title / Authors	Presenting author / Affiliation
17:45 - 18:00	Hydrogeology framework of Gardunha Mountain	Paulo Eduardo MAIA DE CARVALHO







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	Paulo Eduardo Maia de Carvalho	University of Beira Interior, Portugal
18:00 - 18:15	Costa Rican social housing, 10 years' technical experience	Francisco VILLALOBOS RAMIREZ
	Francisco Villalobos Ramirez	Fidelitas University, Costa Rica
18:15 - 18:30	Spacestourism planning: a river beach as an example of an integrated sustainable tourism plan	Cláudia Sofia SÃO MARCOS BEATO
	- the case of Ameixiosa in São Pedro do Sul – Portugal	University of Beira Interior, Portugal
	Cláudia Sofia São Marcos Beato	

Day 2: December 16th, 2021

Chairpersons:

10:00 - 13:15PANEL 3Dr. Ancuța ROTARU ("Gheorghe Asachi" Technical University of Iași, Romania)Dr. Andrea SEGALINI (University of Parma, Italy)

TOPIC 5: Hazard Risk Mitigation for a Sustainable Built Environment			
Time slot	Title / Authors	Presenting author / Affiliation	
10:00 - 10:15	Assessing the near-future behavior of a landslide: development and preliminary results of a	Andrea SEGALINI	
	Machine Learning algorithm Andrea Segalini, Marco Conciatori, Alessandro Valletta, Andrea Carri	University of Parma, Italy	
10:15 - 10:30	A study regarding the human evacuation from a hotel in case of a fire drill	Zeno-Cosmin GRIGORAŞ	
	Zeno-Cosmin Grigoraș, Mihaela Ibanescu	"Gheorghe Asachi" Technical University of Iași, Romania	
10:30 - 10:45	Landslide displacement prediction with machine learning techniques	Carlotta GUARDIANI	
	Carlotta Guardiani, Enrico Soranzo, Birgit Jochum, David Ottowitz, Wei Wu	BOKU Vienna, Austria	
10:45 - 11:00	Sustainable operation of Belgrade landfill - assessment of the composite liner by numerical	Jan ŠTEFAŇÁK	
	calculation Jan Štefaňák	Brno University of Technology, Czech Republic	
11:00 - 11:15	Transportation infrastructures exposed to seismic risk: evaluation of social costs for resilience	Azzurra EVANGELISTI	
	design Azzurra Evangelisti	University of Cassino and Southern Lazio, Italy	
11:15 - 11:30	Remedial measures for a rainfall-induced creeping landslide: A case study	Xuan KANG	
	Xuan Kang, Shun Wang, Wei Wu, Guangli Xu	BOKU Vienna, Austria	



Title / Authors

Kaja Pogačar, Andrej Žižek, Peter Šenk

Time slot

15:00 - 15:15





Presenting author / Affiliation

University of Maribor, Slovenia

Kaja POGAČAR

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11:30 - 11:45 Break

TOPIC 6: Sustainable Infrastructure Design and Maintenance			
Time slot	Title / Authors		Presenting author / Affiliation
11:45 - 12:00	The use of Smart Altern	native Transportation Platforms (SATP) in infrastructure evaluation	Wynand JvdM STEYN
	and management		University of Pretoria, South Africa
	Wynand JvdM Steyn, Joha	innes LP Steyn	
12:00 - 12:15	Sustainable retrofitting	of urban streets for mitigation of traffic vibration by means of Anti-	Mauro D'APUZZO
	vibrating trenches		University of Cassino and Southern Lazio, Italy
	Mauro D'Apuzzo		
12:15 - 12:30	Influence of the Recons	truction of the Sofia Ring Road on the Travel Time of Fire and Rescue	Teodor BEROV
	Service Vehicles		"Todor Kableshkov" University of Transport
	Teodor Berov		Sofia, Bulgaria
12:30 - 12:45		for mapping of soil properties	Alfrendo SATYANAGA
		-Woo Moon, Dichuan Zhang, Jong Kim	Nazarbayev University, Kazakhstan
12:45 - 13:00	Semming base tunnel, A	Austria	Michael PROPRENTER
	Michael Proprenter		iC Consulenten, Austria
13:00 - 13:15	Laboratory determination	on of cement consumption by grouting with tube a manchette on a site	Mariya RUSEVA
	in town Pernik, Bulgaria		University of Architecture, Construction and
	Mariya Ruseva, Andrey To	otsev	Geodesy, Bulgaria
13:15 - 15:00	Lunch Break		
		Chairpersons:	
		Prof. Wei WU (BOKU, Austria)	
15:00 - 17:45	PANEL 4	Drof Chauder VOI EV ("Todar Vahlashkay" Universit	ity of Transport Sofia Dulgaria)

Dr. Kaja POGAČAR (University of Maribor, Slovenia) **TOPIC 7: Sustainable rehabilitation in architecture and urban development**

Sustainable rehabilitation of open public spaces: The transformative potential of city streets

Prof. Chavdar KOLEV ("Todor Kableshkov" University of Transport Sofia, Bulgaria)







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15:15 - 15:30	Sustainable rehabilitation in urban environment and social sustainability: A selection of	Peter ŠENK
	contemporary city concepts to be considered	University of Maribor, Slovenia
	Peter Šenk, Kaja Pogačar	
15:30 - 15:45	Semantic modelling for the Heritage Building Domain: conceptualising and detailing	Sara GUERRA DE OLIVEIRA
	rehabilitation interventions	University of Maribor, Slovenia
	Sara Guerra de Oliveira, Andrej Tibaut and Nenad Čuš Babič	
15:45 - 16:00	Potential of underground industrial heritage spaces for urban rehabilitation: case study	Uroš LOBNIK
	Maribor Tezno	University of Maribor, Slovenia
	Uroš Lobnik, Peter Šenk	
16:00 - 16:15	Sustainable Rehabilitation of urban cities: a new design method for pedestrian areas	Giuseppe CAPPELLI
	Giuseppe Cappelli	University of Cassino and Southern Lazio, Italy

16:30 - 16:45 Break

TOPIC 8: Conservation, rehabilitation and integration of cultural heritage

Time slot	Title / Authors	Presenting author / Affiliation
16:45 - 17:00	A study on temporal health of mangrove forest to identify the pattern of degradation and	Sweta CHATTERJEE
	subsequent management options for Indian Sundarbans using geoinformatics	Jadavpur University, Kolkata, India
	Sweta Chatterjee, Gupinath Bhandari	
17:00 - 17:15	Current rehabilitating of a church from Romania	Ioana OLTEANU-DONȚOV
	Ioana Olteanu-Donțov, Gavrilă (Ilaș-Ion) Irina	"Gheorghe Asachi" Technical University of Iași,
		Romania
17:15 - 17:30	Rehabilitation of historical buildings in Africa	Zakaria OWUSU-YEBOAH
	Zakaria Owusu-Yeboah, Ioana Olteanu-Donțov	"Gheorghe Asachi" Technical University of Iași,
		Romania
17:30 - 17:45	Criteria for a primary assessment of buildings for soft story existence: the case of Sofia Center	Teodor TODOROV
	Teodor Todorov	Renoviray Ltd., Bulgaria
17:45 - 18:00	Sustainable rehabilitation works for a heritage building placed in Iași, Romania	Ioana OLTEANU-DONȚOV
	Ioana Olteanu-Donțov, Bogdan Petru Ursu	"Gheorghe Asachi" Technical University of Iași,
		Romania