

FORUM PROGRAMME

GETTING TO ZERO

Beyond energy transition towards carbon-neutral Mediterranean cities

Time	Wednesday 14 February	Thursday 15 February	Friday 16 February
8:30	Registration	Registration	Registration
9:00	Institutional Greetings	Plenary	Plenary
	A. Sayigh: Chair of the Forum & Chair of the Scientific Committee	2. ARCHITECTURES FOR TOMORROW	4. PEOPLE AND COMMUNITIES
	M. Sala: Honorary Co-chair of Scientific Committee	Chair: M. Aboulnaga - Co-chair: G. Calcagno	Chair: A. Sayigh - Co-chair: S. Wannous
	G. De Luca: Director of the Department of Architecture DIDA (UNIFI)		
	M. Losasso: President of SITdA (Società Italiana della Tecnologia dell'Architettura)	S. Wannous, L. Wannous, R. Badr	R. Hinrichs-Rahlwes
9:30	Plenary	Architectural treatments for the integration of solar energy systems on the roofs of residential buildings as an	The European Green Deal - building a sustainable energy
	Getting to Zero	alternative solution to the energy crisis in Syria	system across end-uses: net zero or zero emissions
	Chair: M. Sala - Co-chair: A. Trombadore	C. Nava	G. M. Mangano
		Architectures as carbon sink, as carbon pool, as carbon stoke: how technological options challenge the loss of uptake of the Mediterranean sea	Which Living Lab processes for the Renewable Energy Communities? A pilot experimentation in NRRP-T4Y Research
	R. Badr The machine man and his shelter in a time of artificial and digital transformation I. Bennani Climate change and energy transition. The Moroccan experience S. Mecca Proximity. The well-being in the city of future G. Verdini Climate-resilient Urban Futures in the Mediterranean Region: Notes M.L. Germanä Circular building production in the South Mediterranean area: the experience of CUBÂTI Project D. Oktay Neighbourhood nexus: towards positive energy environments in urban settings	A. Violano, M. Cannaviello Nature positive built environment: systemic approaches and technological design experimentation S. Ferchichi Mediterranean synergies for the energy renovation of university buildings: three pilot projects in Palestine, Tunisia, and Italy A. Rogora, P. Leardini Energy retrofit of non-monumental historic buildings: Problems, limitations and opportunities of technological advances G. Grunwald and all Building BIM Competence across Europe: the DIGITAL DECATHLON project	D. Giorgi, C. Morea A design-led participatory process to address Climate City Contract for NetZero cities A. Trombadore, C. Balocco When architectural design unveils the ethical and aesthetical value of BIPV: the Santa Verdiana demo case G. Calcagno, G. Pierucci, L. Montoni, M. Bertelli Capitalizing the Med-EcoSuRe experience
11:00	Coffee Break	Coffee Break	Coffee Break

11:30	Plenary		Plenary		Plenary
1	1. LANDSCAPE AND CITIES IN TRANSITION		3. ECO-TECHNOLOGIES AND MATERIALS		1. LANDSCAPE AND CITIES IN TRANSITION
	Chair: R. Crutescu - Co-chair: G. Verdini		Chair: A. Rogora - Co-chair: G. M. Mangano		Chair: A. Sayigh - Co-chair: M. Szabó
I	M. Sala		A. Sayigh		R. Crutescu
	Urban forestation and green architecture for a sustainal	ble built environment	European Drive to use Photovoltaic Application in New Buildi		Sustainable Architecture Challenges for a Sustainable Future
I	M. Aboulnaga, M. Elsharkawy		M. Aboulnaga, A. Abouaiana, A. Eid, R. Elkeshki, S.		R. Pulselli, G. Paolinelli, S. Bastianoni
II.	Climate Neutrality and Global Perspective for Net-zero R	Policies and Buildings	Aboughoneima, A. Elmarakby An Integrated Approach towards Smart Building Strategies		Living labs to design the transition towards carbon neutrality in Mediterranean Islands
1	D. Francese, B. Buoninconti, E.M. Oliva		to Mitigate Climate Change and Attain SDG to Reach	Special SESSION	
1	Ecological and bioregional transition		Net-Zero	DIGITAL DECATHLON	A. Basti, E. Di Giuseppe
1			A Zahanistan C Madualia A Charisti		The technological design of renewable energy communities:
1	R. Bologna		A. Zabaniotou, G. Vaskalis, A. Chasioti Alternative Liquid Fuels from Plastic Waste toward Climate	Erasmus + project	architectural implication of an holistic approach
1	Global challenges and environmental design for a new b	palance between nature and city	Change Mitigation and Circular Economy		0. Smith
1	B. Beckers		Change magazon and encada zeonom,	Presentation of students design projects in	A Novel Collaborative Stakeholder Development Tool Using
1	A physics-based urban digital twin for designing and rer	novating sustainable cities	F. Giglio, F. Armocida	the context of the DD competition	Energy System Optimisation and Visual Interface for
1	Typingsies based diban digital common designing and re-	novating sustainable cities	A zero waste strategy toward carbon neutrality. Circular		Workshop Facilitation
1	E. Lucchi, M. Clementi, V. Dessì		technology experimentations for life extension of		
	Mapping urban local metabolism to support Building Int	tegrated Agriculture	non-recyclable plastic packaging		P. Picchi
1					The landscape at the centre of the Agrivoltaic systems project
1			D. Lucanto, F. Filice		I. Khele, M. Szabó
			Eco-Design for Transition Architecture: Comparative		Comparative Analysis of the energetic performance of
			Analysis for an Ascalar Methodology Utilizing Green Actions Defined by the PNACC and Pre-Design According		Buildings Integrated Semi-Transparent PV glazing systems in
			to Life Cycle Thinking		the climate of Hungary and Syria.
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12:15			S. VERDIANA PILOT	T OPENING	
12:15 13:00	Poster Se:	ssion	S. VERDIANA PILOT Poster Sess		Poster Session
13:00	Poster Ses Light Lunch	ssion			Poster Session Light Lunch
13:00		ssion Session 2.1	Poster Sess		
13:00 13:15	Light Lunch		Poster Sess Light Lunch	ion	Light Lunch
13:00 13:15	Light Lunch Session 1.1	Session 2.1	Poster Session 3.1	Session 4.1	Light Lunch CLOSING SESSION
13:00 13:15	Light Lunch Session 1.1 LANDSCAPE AND CITIES IN TRANSITION	Session 2.1 ARCHITECTURES FOR TOMORROW	Poster Sess Light Lunch Session 3.1 ECO-TECHNOLOGIES AND MATERIALS	Session 4.1 PEOPLE AND COMMUNITIES	CLOSING SESSION ROUNDTABLE
13:00 13:15	Light Lunch Session 1.1 LANDSCAPE AND CITIES IN TRANSITION Chair: R. Pulselli Co-chair: V. Dessì	Session 2.1 ARCHITECTURES FOR TOMORROW Chair: C. Nava	Light Lunch Session 3.1 ECO-TECHNOLOGIES AND MATERIALS Chair: A. Zabaniotou	Session 4.1 PEOPLE AND COMMUNITIES Chair: D. Francese Co-chair: C. Sarrini	CLOSING SESSION ROUNDTABLE Chair: A. Trombadore Co-chair: G. Mangano
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Energy and Environmental redurbishment of the residential compiex of Torrevectchia in Rome: Retrofitting and Demand Response Activities E. Paudice N. Karar, S. Haggagy, A Hadhoud, M. Rabea, S. Dergham Sustainable Retrofitting Strategies for Existing Communities to Attain Resilience, Livability, and Climate Mitigation and Adaptation: The Case Study of Urban District One Residential Compound in New Digital and Physical Prototyping. Crafting a Comprehensive Attas for Predictive Modeling and Adaptive Technologies in Climate Change Scenario Analysis 16:30 Coffee Breok 16:30 Session 1.2 LANDSCAPE AND CITIES IN TRANSITION Chair F. Giglio Co-chair. C. Moretti V. Frighl, E. Piala Innovative approaches for heritage buildings renovation in the Mediterranean area S. Magaudda Designing Nature Based Solutions for Carbon Footprint offsetting of School communities E. Giacomello, V. Tatano, R. Ravellini SuDS-Sustainable Urban Solutions L. Montoni, C. Moretti Smart Biophilic cities: green and innovative digital solutions for sustainable urban Adaptive Green Responsive System (GRS): Decarbonization in the Mediterranean (GRS): Communities to Attain Resilience, Livability, and Climate Mitigation and Adaptive The Residential Compound in New Chair Bertelli Getting to zero' the university buildings stock. Boosting the renovation strategy and the action plan of the University of Florence Coffee Breok Session 1.2 ARCHITECTURES FOR TOMORROW Chair B. Fuchi Co-chair. M. Bertelli Co-chair. M. Bertelli L. Lombardo, S. Colajanni, T. Campisi Madonie Green Walls Revolution: sustainable revitalization and enhancement of Sicilian inner rural areas L. Gelichi SEAWIEED HOUSE 2.0 F. Gugllotta, A. Battistella Wind Farms and Diachronic Land Sustainability Mind Farms and Diachronic Land Sustainability Green Responsive System (GRS): Decarbonization in the Mediterranean of the University of Florence Coffee Breok 16:30 Session 1.2 L. Lombardo, N. Karar, S. Haggagy, A. Hadhoud, M. Robea, S. Green Responsive Spister (GRS): Decarbo	panel prototype Sustainable approaches to enhance environmental comfort L. Sacchetti Proposal of a Framework to Evaluate the Building Performance of Local Healthcare Tulelli, G. Rossini aterials from organic
Retrofitting and Demand Response Activities E. Paudice New forms of interaction between infrastructure and the city: the experience of the intensive forest in the Garbatella park D. Lucanto An Advanced Framework for Regenerative Design in Digital and Physical Prototyping, Crafting a Comprehensive Atlas for Predictive Modeling and Adaptive Technologies in Climate Change Scenario Analysis Session 1.2 LANDSCAPE AND CITIES IN TRANSITION Chair: F. Giglio Co-chair: C. Moretti V. Frighl, E. Piala Innovative approaches for heritage buildings renovation in the Mediterranean area S. Magaudda Designing Nature Based Solutions for Carbon Footprint offsetting of school communities E. Catalano, C. Nava N. Karar, S. Haggagy, A Hadhoud, M. Rabea, S. Derabnoud, M. Rabea, S. Derabnoud, M. Rabea, S. Decarbonization in the Mediterra Communities of An Advanced Framework for Regenerative Design in Digital and Physical Prototyping, Crafting a Compound in New G. Pierucci, G. Calcagno, A. Trombadore, L. Montoni, M. Bertelli Getting to zero'the university buildings stock. Boosting the renovation strategy and the action plan of the University of Florence Session 1.2 LANDSCAPE AND CITIES IN TRANSITION Chair: F. Giglio Co-chair: C. Moretti V. Frighl, E. Piala Innovative approaches for heritage buildings renovation in the Mediterranean area S. Magaudda Designing Nature Based Solutions for Carbon Footprint offsetting of school communities E. Giacomello, V. Tatano, R. Ravellini SuDS-Sustainable Drainage Systems in city center. Open problems and technological solutions L. Montoni, C. Moretti Smart Biophilic cities green and innovative digital solutions for sustainable urban Andaptive Technological Solutions for sustainable urban Andaptive Technolo	environmental comfort L. Sacchetti Proposal of a Framework to Evaluate the Building Performance of Local Healthcare Tulelli, G. Rossini aterials from organic
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E. Giacomello, V. Tatano, R. Ravellini SuDS-Sustainable Drainage Systems in city center. Open problems and technological solutions G. Paganin, C. Talamo, C. Chitanu Assessing climate change adaptation of buildings: a review of performance indicators in and innovative digital solutions for sustainable urban Retrofitting of school buildings in Rome Wind Farms and Diachronic Land Sustainability G. Paganin, C. Talamo, C. Chitanu Assessing climate change adaptation of buildings: a review of performance indicators in Green Building Rating Systems	co-design
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Open problems and technological solutions G. Paganin, C. Talamo, C. Chitanu Assessing climate change adaptation of buildings: a review of performance indicators in and innovative digital solutions for sustainable urban Green Building Rating Systems	A. Cristino
Assessing climate change adaptation of buildings: a review of performance indicators in and innovative digital solutions for sustainable urban Assessing climate change adaptation of buildings: a review of performance indicators in Green Building Rating Systems	The Digitalization of Participatory Approaches
L. Montoni, C. Moretti Smart Biophilic cities: green and innovative digital solutions for sustainable urban Green Building Rating Systems	
and innovative digital solutions for sustainable urban Green Building Rating Systems	G. Cadoni, M. Belmaaziz
development	Multiscale energy modelling approach of the
F. Tucci, V. Cecafosso, M. Giampaoletti, G.	Multiscale energy modelling approach of the residential building stock based on data-driven
L. Moujoud, O. Messous, A. El Fallous Turchetti, K. Mitrik, L. Montagner	
Exploring the intersection of History and Morphology: Green architecture, NZEB and Climate	residential building stock based on data-driven
A comparative study of the spatial formation in the Neutrality. An intervention design model for	residential building stock based on data-driven
early development of the Medina of Fez deep renovation of Public Housing	residential building stock based on data-driven GIS tool
	residential building stock based on data-driven GIS tool A. Canducci, A. Calvano, A. Battisti
R. Bologna, G. Hasanaj, C. Moretti	residential building stock based on data-driven GIS tool A. Canducci, A. Calvano, A. Battisti Technological and environmental strategies for
Shifting to a new sustainable paradigm:	residential building stock based on data-driven GIS tool A. Canducci, A. Calvano, A. Battisti Technological and environmental strategies for the redevelopment of outdoor learning spaces and
18:00 nature-based solutions and circular design for	residential building stock based on data-driven GIS tool A. Canducci, A. Calvano, A. Battisti Technological and environmental strategies for the redevelopment of outdoor learning spaces and the establishment of Energy Hubs in school
the urban regeneration	residential building stock based on data-driven GIS tool A. Canducci, A. Calvano, A. Battisti Technological and environmental strategies for the redevelopment of outdoor learning spaces and the establishment of Energy Hubs in school buildings
	residential building stock based on data-driven GIS tool A. Canducci, A. Calvano, A. Battisti Technological and environmental strategies for the redevelopment of outdoor learning spaces and the establishment of Energy Hubs in school
19:30 FORUM <i>PI</i>	residential building stock based on data-driven GIS tool A. Canducci, A. Calvano, A. Battisti Technological and environmental strategies for the redevelopment of outdoor learning spaces and the establishment of Energy Hubs in school buildings