

NEW METROPOLITAN PERSPECTIVES 2020

THEMATIC SESSIONS - TS

TS-09

TRANSFORMING THE BUILT ENVIRONMENT THROUGH SUSTAINABILITY: PROCESSES AND VALUES

Keywords: Sustainability; Built Environment; Externalities; Green Buildings; Indoor Comfort.

The Sustainable Development Goals highlighted how cities today represent the most challenging context for quality of life, environmental sustainability, health and social inclusion and their strategic role in adapting to climate change. In particular, building and construction industries have direct implications on these issues and, to change the current trend, urban development must be designed and organized to make cities smarter, resilient, safe and circular.

In this context, the current session aims to explore the value of sustainability and the role of buildings in improving the quality of cities guided by interdisciplinary perspectives and tailored on two different scales of intervention.

The first scale is focused on buildings. Developers and investors often consider green construction costs to be too high given their expected returns. A special attention is given to the introduction of innovative technologies to optimize production cycles and make green interventions more accessible and profitable. The second one considers the indoor environment. In particular, a special focus on the economic evaluation of better indoor comfort conditions, improved wellbeing, and workers' productivity. Interesting contributions could concern the monetary and non-monetary evaluation, based on known or innovative methodologies, in the context of the two aforementioned scales.

CHAIRS

Raul Berto – University of Trieste – Department of Engineering and Architecture

PhD at University of Trieste. In 2017, he started his research fellow at University of Trieste. Since 2012, he conducts research about green building, in particular the valuation of benefits deriving from the installation of green roof on existing building. Currently, he is part of a research group that deals with performance and economic assessments aimed at modernizing health facilities.

Federico Dell'Anna – Politecnico di Torino – DIST

RESEARCH FELLOW at the Interuniversity Department of Regional Urban Studies and Planning at the Politecnico di Torino. He received his Bachelor in Architecture Science and Master's in Architecture Construction City from the Politecnico di Torino, Italy. He is interested in integrated evaluation of urban and territorial requalification operations, with specific reference to the estimation of co-benefits achieved by energy improvement according to Net Zero Energy District and Post Carbon City targets.

Marta Dell'Ovo – Politecnico di Milano – DABC

RESEARCH FELLOW at the department of Architecture, Built environment and Construction engineering at Politecnico di Milano. She held her PhD in 2017 and her research activities concerns the evaluation of plans, projects and resources under the economic, environmental and social dimensions guided by multidisciplinary approaches.

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RESEARCH FELLOW at the IUAV University of Venice. Her research activity is linked to the economic-financial evaluation of plans and projects and of public/private partnership instruments sector. She is also a freelance architect and for years has been involved in real estate appraisals, feasibility studies and competitions of ideas in the field of architectural design.

