

Special Issue

Business Models for Building Sustainability: Markets, Costs, Constraints, and Challenges

Message from the Guest Editors

The topic of building sustainability has evolved into a complex, interdisciplinary field. The scientific community has recently focused on exploring innovative business models that synthesize several considerations on the value and costs of sustainability within the built environment. However, additional challenges remain to be addressed, particularly those related to climate change, safety and health, and innovative technologies, among others. Climate change is reshaping real estate markets by introducing new investment risk profiles. Issues concerning safety and health, among other social concerns, call for a deeper reflection on how the real estate market and urban development affect human wellbeing. The potential of innovative technologies, such as Building Information Modeling (BIM) integrated with Artificial Intelligence (AI), remains partly unexplored, especially regarding their application in supporting investment decision-making. This Special Issue aims to gather contributions on the effects that all these challenges may have on the real estate and construction markets, as well as on the further evolution of innovative business models linked with them.

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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