

The influence of incorporating urban identity components in neighbourhood design for attaining environmental sustainability criteria

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Abstract. In recent decades, research has shown that to implement a sustainable neighbourhood, traditional urban and architectural typologies that reflect our identity has a role in the ecological urbanism framework. The research investigates how incorporating elements of urban identity, such as environmental, cultural, historical, and social aspects, can contribute to the creation of environmentally sustainable neighbourhoods. By aligning design principles with the unique characteristics of the community, a harmonious balance between ecological preservation and human well-being. Many cases across time show that clustered residential buildings with a courtyard, which is considered the development of courtyard homes, can achieve function and sustainability. This paper outlines a comparative study for the urban identity components in neighbourhood design in three countries that have different climates: Greece, the Netherlands, and Turkey. The study has a multidisciplinary approach, incorporating urban planning and environmental factors by Envi-Met software to analyse the influence of urban identity on sustainable neighbourhood design. Findings from this research aim to provide valuable insights for urban planners, and placemakers, guiding them towards more holistic and sustainable approaches to neighbourhood development in Egypt. and confirming the importance of urban identity in achieving environmental sustainability criteria within the context of contemporary urban planning.

