

Research 4

An interdisciplinary assessment model for supporting decision-making in urban regeneration plans:

A case study of the Maspero Triangle, Cairo City, Egypt

Urban regeneration plays a key role in achieving urban sustainability at several levels via multidisciplinary activities. Regeneration plans in Egypt have policy and investment devoted to them, but they often fail to create sustainable urban environments that can meet community needs. Stakeholders and financiers involved in regeneration should consider the social sustainability angle to a far greater degree. The aim of this paper is to close the gap between regeneration top-down planning policies and the bottom-up initiatives of community associations through an interdisciplinary assessment model. This model combines different evaluation tools and provides a decision support system framework that can improve the quality and transparency of decisions in regeneration plans. This paper provides a theoretical background that clarifies the problem, outlines the objectives, and explains the fundamental scientific terms of research variables for better understanding of the complexity of regeneration processes. It conducts multiple quantitative assessment attributes with a comparative analysis between different studies. Finally, the paper proposes an interdisciplinary assessment model with a detailed analysis of a pilot case study of the Maspero Triangle area located in the center of Cairo, Egypt.