

Abstract

The research investigates the issue of sustainable urban transport planning in the general strategic plans of the new sustainable cities. The concept of sustainable development is noted in the definition of the general strategic plan for new cities in the unified construction law no. 119 of 2008. However, it does not reflect the outcomes of the plan for achieving sustainability. It is possible to bridge the research gap by integrating the foundations of sustainable urban transport into the general strategic plans of the new cities in Egyptian reality. The research examined the indicators of achieving sustainable urban transport from the "bases and mechanisms" that fit the Egyptian reality, and how to implement and integrate sustainable urban transport with land uses by reviewing a variety of global experiences such as Masdar City. These experiments bring into surface sustainable transport in the form of ideas for the application of Transit-oriented approach TOD approach, sustainable transport, and its relationship to land uses in new cities. The TOD approach was used as an input to the sustainable urban transport application in the new cities because it is concerned with the planning of diverse uses and takes into account the foundations of sustainable urban development as confirmed by the TOD research studies to achieve sustainable transport. The city of sixth of October, as a case study, and one of the new Egyptian cities to propose a number of transportation means that lead to sustainability from the axes of mass transport and the pedestrian paths, and achieving sustainable urban transport is an important step towards achieving the vision of the city as a sustainable green city. The TOD approach was used as an input to the sustainable urban transport application in the new cities because it is concerned with the planning of diverse land uses and traffic network and takes into account the foundations of sustainable urban development as confirmed by the TOD studies to achieve sustainable transport. The achievement of sustainable urban transport is an important step towards realizing the vision of the city as a sustainable green city. A set of appropriate indicators for the Egyptian situation were derived through a detailed questionnaire addressed by experts and senior transport engineers and consultants to produce a set of indicators for sustainable transport appropriate for the Egyptian situation that can be integrated into the TOR methodology for 6th of October city as one of the new Egyptian cities. Finally, the research resulted in the manifestation of a systematic framework to integrate these foundations and mechanisms for sustainable urban transport in the stage of preparing the modernization of the strategic plans of the new Egyptian cities as an attempt to design and plan a highly efficient, clean and environmentally sustainable transport which will present general, detailed and final results.