

## Summary

The research investigates the issue of sustainable urban transport in the general strategic plans of the new sustainable cities. The concept of sustainable development is noted in 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 to achieve sustainability. It is possible to bridge the research gap by integrating sustainable urban transport into the general strategic plans of the new cities in the Egyptian reality.

In general, the research examined the indicators of achieving sustainable urban transport from the "bases and mechanisms" that are appropriate to 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 experiences bring into surface sustainable transportation into the form of ideas for the application of Transit-oriented approach TOD and sustainable transport and its relationship to land use in new cities.

TOD approach has been used in the new cities because it is concerned with the planning of diverse uses and the network of movement and takes into account the foundations of sustainable urban development. Different research studies have empathized this approach to achieve sustainable transport.

In addition, the implementation of sustainable urban transport is an important step towards achieving the city's vision 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.

**The thesis consists of the introduction and the systematic framework of the research and the number of five chapters as follows:**

Introduction and general framework of research.

**Chapter 1: Strategic Planning and Urban Transport (Monitoring Concepts and Methodologies).**

The lack of the traditional methodology for sustainable transport and sustainable development.

**Chapter II: Sustainable Urban Transport and Sustainable Urban Planning.**

Theoretical foundations of sustainable urban transport to be integrated into the methodology of strategic city planning were extracted, and the relationship between the theoretical foundations of sustainable urban transport and sustainable urban planning of the TOD approach was adopted.

**Chapter III: Global and Local Experiences and the Final Theoretical Framework for Planning Sustainable Urban Transport.**

The "indicators" have emerged as the basis of theory and practical mechanisms to achieve sustainable urban transport.

**Chapter Four: The Applied Study and the Case Study of sixth of October City.**

The final indicators of the "bases of theory and practical mechanisms" and the development of the appropriate ones to apply to the Egyptian situation were adopted.

## **Chapter V: results and Recommendations for Future Research.**

The principles and mechanisms for sustainable urban transport adapted to the Egyptian reality were incorporated into the special terms of reference TOR of the general strategic plans of the new cities. The planning of new sustainable Egyptian cities and the development of a systematic framework for integrating the foundations of sustainable transport into urban planning were suggested in the aim to achieve a functional and environmentally clean transportation and traffic system.