

# A GIS-BASED APPROACH FOR AUDITING SUSTAINABLE DEVELOPMENT OF NEW INDUSTRIAL COMMUNITIES: THE CASE OF “NEW BORG ELARAB” CITY, EGYPT

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## **Abstract**

*As till the present time most of the industrial cities in Egypt have not achieved the necessary objectives aimed for them, they need different strategic auditing plans to ensure that the city urban area is developed in a sustainable manner.*

*The research applies an integrated approach to auditing sustainable development in “New Borg ElArab” City, Egypt. The approach which was erected on a Decision Support Systems (DSS) based on a geographic information system (GIS), involved the evaluation of the sustainable development dimensions addressed by the planning process and land use activities resulting from physical planning and functional activation of the city.*

*Auditing framework went through identification of vision, analyzing sustainability themes, and finally developed a set of core/sub-indicators which managed to illustrate the city’s current and future performance towards sustainability.*

*Sustainability appraisal results concluded that some aspects of sustainable development were not tackled by the planning process. The planning process addressed economic sustainability issues more than that of social and environmental issues. A set of recommended measures was advanced in the form of main tasks covering all selected indicators outcome to ensure the city strategic master plan success towards sustainable development on both, the long and the short run.*

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