

Article

# A Systematic Approach of Optimal Land-Use Planning by Applying Geo-Environmental Techniques: A Case Study

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**Abstract:** This article demonstrates the capabilities and integrity of the environmental geological and geophysical techniques for planning the suitability of the extension of Helwan city for construction and engineering purposes. The geological and topographical mapping were utilized as well as environmental geophysical techniques (seismic refraction, ground penetrating radar (GPR), and resistivity soundings) for optimal land-use planning. The seismic refraction profiles were conducted to evaluate the geotechnical characteristics of the bedrock, GPR was applied to define the main subsurface reflectors, and the geoelectrical resistivity survey was used to identify the subsurface stratigraphic sequence and the distribution of main structural elements impacting the investigated area. The integrated results and findings of the environmental geological and geophysical survey inferred two major distinctive subsurface layers: a thin surface layer represented by highly weathered limestone, with an average thickness of 3 m, and a bottom layer equivalent to the bedrock composed of hard limestone. In addition, GPR performed an analysis of two remarkable subsurface layers, which supported the generated model of other geophysical surveying techniques. Finally, all the geological and various geophysical techniques were integrated and merged to generate the optimal land-use plan of the extension of Helwan city for construction and engineering purposes and to avoid high-risk areas to reserve the sustainability of the new urban communities.

**Keywords:** integrity; environmental; geological; geophysical; sustainability



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## 1. Introduction

As populations grow, available land will become a scarce natural resource, especially for the already-existing urban communities. As more land is planned to be developed, effective planning will counteract the negative effects of its use and development. The numerous benefits of effective land-use planning can include the following: creating a generic framework for the proposed urban project, aiding the anticipation of the future plan of the investigated site, implementing sustainable infrastructure utilities, direct positive impact on the local urban economy, optimal use and conservation of natural resources along with protection of the environment, minimizing the associated risks of the natural hazards, and avoiding land-use conflicts [1–3].

For an optimal planning and effective development of the investigated site, a suggested joint integrated approach of geophysical methods including the electrical resistivity, seismic refraction methods, ground penetrating radar, and geological mapping were implemented throughout the study area. Geophysical indicators, including electrical resistivity, seismic velocity, and electromagnetic signature, give a clear image about the subsurface layering sequence and the degree of rock weathering or fracturing [4,5].

The investigated site is situated at the southeastern sector of Cairo, Egypt, which was designated for a proposed residential extension of the already-existing Helwan city, to reduce/minimize the random distribution of the unplanned urbanization in addition to providing millions of job opportunities, which takes into account the provision of a

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web jul 6 2019 aspek self esteem menurut rosenberg menurut rosenberg ada 3 aspek dalam self esteem individu sehingga dapat menjadi dasar pengukuran yang dikemukakan olehnya mempelajari aspek dari self esteem ini sangat diperlukan untuk mengetahui secara utuh apa penghargaan diri itu dan cara menentukannya

**model rosenberg ilmu perilaku konsumen** - Sep 21 2022

web model rosenberg dalam dokumen ilmu perilaku konsumen halaman 87 96 model ini dikembangkan oleh milton rosenberg berdasarkan teori konsistensi kognitif dia mengatakan bahwa sikap terhadap suatu obyek merupakan fungsi tingkat instrumentalitas obyek untuk memperoleh beranekaragam nilai

*sikap definisi teori pembentukan sikap model bentuk* - Aug 21 2022

web nov 8 2021 pada dasarnya teori ini mengatakan bahwa sikap bisa dibentuk dari perasaan subjektif kita contoh kita akan menyukai sesuatu yang memberikan kesenangan walaupun alasannya tidak bisa diterima akal teori expectancy value

teori ini melihat bahwa sikap berkembang dari proses evaluasi pertimbangan aspek positif dan negatif

**harga diri self esteem terancam dan perilaku menghindar ugm** - Dec 25 2022

web rosenberg 1965 harga diri self esteem merupakan suatu evaluasi positif ataupun negatif terhadap diri sendiri self dengan kata lain harga diri self esteem adalah bagaimana seseorang memandang dirinya sendiri harga diri self esteem global adalah sikap positif atau negatif seseorang akan dirinya secara keseluruhan harga

doc perubahan sikap valeria pramita academia edu - Jan 26 2023

web b teori perubahan sikap 1 teori rosenberg teori rosenberg dikenal dengan teori affective cognitive consistency dalam hal sikap kadang kadang terkenal pula dengan sebutan teori dua faktor dalam teori ini rosenberg lebih memusatkan perhatiannya pada hubungan komponen kognitif dan komponen afektif