

Design of Survey Beacons Information System with Google Earth Being the Medium for Location Based Geo–Visualization; Case Study – Greater Accra Region of Ghana

Sebastian Botsyo and Kwabena Bofo (Ghana)

Key words: Education; Geoinformation/GI; Low cost technology; Web based database; survey beacons; Google Earth; spatial; cost-effective

SUMMARY

In the effective and accurate execution of any land surveying project in Ghana, there is the need for the use of existing, reliable, accessible and accurate survey beacons. Sometimes locating these survey beacons in an area for land surveying work becomes difficult and frustrating due to the several processes involve and lack of proper records of the beacons. You may find a survey beacon in an area only to realize that there is no record of it in the agency solely responsible for its records and maintenance. Even though carrying out reconnaissance (office and field) cannot be over emphasized, the cost, time and energy involved, makes it cumbersome. In the global world and in the advent of technology, time is of essence and therefore easy and quick access to survey beacons and their records is of uttermost importance, hence the need for a web base database to save time, cost and energy. Also locating these survey beacons on the Google earth will further enhance the use of modern and cost effective survey techniques to meet the rising demand for the land related positioning activities in the country. This paper discusses an approach to providing a comprehensive web based dataset of survey beacons (controls) with Google Earth being the medium for location based geo-visualization.