Developing a Geospatial Database for Public Secondary School Facilities In Umuahia North L.G.A, Abia State, Nigeria

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Key words: Education; Geoinformation/GI

SUMMARY

This study aimed at populating a geospatial database for secondary school facilities in Umuahia North L.G.A, Abia State using GIS approach. This aim was achieved through the following objectives; acquisition and processing of primary and secondary datasets within the study area, creation of a functional spatial database on public secondary school facilities and carrying out spatial attribute queries. The methodology adopted included: the georeferencing and digitization of the existing map of Umuahia North, plotting the coordinates of schools, conducting spatial queries. The software used included; ArcGIS10.1 and Microsoft office suite. The result showed that only eleven out of the seventeen schools have a recommended minimum of twenty classrooms, while, the remaining six schools are lacking adequate classrooms, three out of seventeen schools had Teachers having NCE and B.ED as minimum and maximum qualifications respectively, thirteen out of seventeen schools had well equipped laboratories for physics, biology and chemistry, it was also observed that ten schools have well-conditioned libraries with modern textbooks which will enhance their level of reading and assimilation while the other seven schools have sub-standard or no libraries at all making the level of reading and understanding low and not easy at all. This is significant as the results obtained in this study should serve and aid as a decision support system in management of secondary school facilities in Umuahia North L.G.A Abia State.

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