Development of a Geospatial Database for Public Secondary School Facilities in Umuahia North LGA, Abia State.

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SUMMARY

ABSTRACT

This project focused on the development of a geospatial database of secondary school facilities in Umuahia North L.G.A, Abia State using GIS approach .This was achieved through the following objectives; acquisition of primary and secondary data within the study area, creation of a functional spatial database on Secondary School facilities within the study area, carrying out spatial attribute GIS analysis within the study area. The methodology adopted included: the acquisition of primary and secondary data within the study area, data processing and analysis amongst others. The software used included: ArcGIS10.1 and Microsoft excel. The result showed that only 15 out of the 10 schools have a recommended min of 35 classrooms, while, the remaining 10 schools are lacking adequate classrooms meaning that these schools with inadequate classrooms will become over populated in course of

time if population of students increases. 7 out of 18 schools had Teachers having NCE and B.ED as min. and maximum qualifications respectively; these are not good enough as to give sound education especially in the post primary schools because the level of their qualification will definitely affect the performance of the students negatively. About 8 schools out of 17 schools have at least 3 equipped laboratories for physics, biology and chemistry. While the remaining 17 schools either have 1 or 2 of the labs which could be sub-standard, fair and not equipped. It was also observed that about 14 schools have well-conditioned libraries with modern textbooks which will enhance their level of reading and assimilation while the other 11 schools have sub-standard or no libraries' at all making the level of reading and understanding low and not easy at all. It was therefore recommended amongst others that the results of this study should serve as a decision

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support system in management of secondary school facilities in Umuahia North L.G.A Abia State.