

Establishment of an Interactive Dashboard Showing the Accreditation Status of Institutions Offering Surveying in Nigeria as at June 2025

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Key words: e-Governance; Geoinformation/GI; GNSS/GPS; Remote sensing; Spatial planning; Keyword 1; Keyword 2; Keyword 3

SUMMARY

Data management is the practice of collecting, organizing, managing, and accessing data to support productivity, visualization, efficiency, and decision-making. Given the pivotal role data plays in an organizational setting, an effective enterprise strategy, and a modern data management platform are essential for data-driven use cases including regulatory compliance, accurate analytics, locational intelligence, proper planning and visualization at a glance. The modern data management and visualization platform showing the accreditation status of Institutions offering Surveying in Nigeria as at June 2025 in a glance is achieved through the establishment of an interactive ArcGIS Dashboard. ArcGIS Dashboard is a multifaceted web application where users can visually analyze and interpret complex data. Leveraging Geographic Information Systems and location intelligence, this study provided a real-time platform to monitor institutional performance, accreditation statuses, and key performance indicators. The interactive Dashboard serves as a central resource for data collection, management, analysis, and community engagement, fostering transparency and professional development within the Surveying field. The project was executed in well-defined phases, beginning with comprehensive data collection from Surveyors Council of Nigeria (SURCON) and compilation of detailed attribute data of Surveying institutions, which was followed by accurate mapping of institutional locations and the integration of attribute data to create comprehensive visualization. The final phase culminated in the successful development and deployment of an Executive Interactive ArcGIS Dashboard, offering stakeholders the ability to monitor trends, evaluate accreditation statuses, and make informed decisions effectively. The result of this study showed 74 Universities, in which 15 Universities were not recognized due to the fact that they have not accredited. 11 Universities are due for an accreditation, 8 Universities have an interim accreditation, 2 universities failed accreditation, and 38 Universities have full accreditation. This milestone is highly recommended to the Stakeholders in the Surveying industry by leveraging technology for improved regulation and development in the profession through delivering a

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centralized, interactive platform. This project promotes operational efficiency, enhances e-governance, provides effective decision-making, improves policy formulation, and stakeholder engagement.

Keywords: Data Management, ArcGIS Dashboard, Geographic Information System, Surveyors Council of Nigeria, Location Intelligence

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