Utilizing Real-Time Field Inspection Reporting in the Land Registration Process: A Case Study of the Lands Commission's Land Registration Division (LRD)

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SUMMARY

Land administration and management have long been recognized as crucial components of sustainable development [1]. In an era where technology is rapidly advancing [7], the use of real-time spatial data capture has revolutionized numerous industries, including land administration. This paper explores the significance of utilizing real-time spatial data capture in the context of land administration. In Ghana, Lands Commission plays a pivotal role in the land registration process, which is essential for securing land tenure and facilitating land-related transactions.

This paper discusses the importance of real-time field inspection reporting within the context of land registration, focusing on the Land Registration Division (LRD) of the Lands Commission. Traditional land inspection methods often suffer from delays and inaccuracies due to reliance on manual processes [10]. By implementing real-time reporting systems, data collection becomes instantaneous, allowing for immediate processing and sharing of information among stakeholders.

The introduction of a mobile app for field inspection data capture represents a pivotal advancement in this process. By utilizing mobile devices, inspectors can collect data instantaneously, allowing for immediate processing and sharing of information among stakeholders. This shift not only enhances the accuracy of land records but also fosters greater stakeholder engagement.

The integration of Geographic Information Systems (GIS) further improves the precision of spatial data, while automated workflows significantly reduce processing times. Case studies illustrate that these advancements lead to increased efficiency in registration processes and higher satisfaction among stakeholders. The key objective of this study is to enhance the efficiency and accuracy of land registration through real-time field inspection reporting facilitated by mobile

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technology

The mobile application, smart report, has been designed in an easy and user-friendly way that will give field officers some convenience and control over the application. Real-time reporting answers the following questions: What is trending on the field, why, and how? It allows the appropriate approval officers to promptly respond to and actively manage on-field data minute by minute.

The challenges Land Registration Division of the Lands Commission face in getting field inspection report on time are discussed and most safety guidelines on the field is given. Subsequently, the importance of field inspection reporting on real time basis is also discussed briefly and framework that has been used to design the application for field inspection reporting.

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