

Smart Surveyor-Land Information System and Management

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SUMMARY

SMART SURVEYORS FOR LAND AND WATER MANAGEMENT

Land Information System Map (LISMAP) is a Geographical Information System (GIS) which encompasses a web based application that has the ability to search and find buildings with house numbers, landmarks, streets etc. With these, any Government agency can easily locate addresses of residents and businesses. The application is made up of a comprehensive mapping system with a spatial database of structures and their descriptions within a target area in Ghana for a more advanced management system.

OBJECTIVES OF THE LISMAP APPLICATION

- To create a spatial database of properties, businesses and residents in the area of interest.
- To create a system for planning and development.
- To create an overall system that will prevent loss of revenue for the local government authority in terms of property taxes and other revenue models.
- To considerably reduce the maintenance and processing cost of government when it comes to developments.
- To create a database for government to help them make strategic decisions for management purposes. A niche can be created for a group of people depending on their needs eg. Security, Accommodation, Health facilities, Employment opportunities

etc.

- To easily navigate to any property, business or residents location for any purpose.

RESULTS

LISMAP seeks to aiding with the following;

- The government will now have information about every structure in its jurisdiction in real time.
- The government will save time and money since there will be a control in implementation of policies.
- Loopholes in property tax collection will be sealed because the LISMAP digitally monitors property rates with their payment receipts.
- The government will now know the areas of concern in the municipality thus address them adequately.
- The government will now know their precise targets in the financial year even before a new year begins.
- Easy movement to resident's location will cut down cost of expenditure in getting to areas of interest.

CONCLUSION AND SIGNIFICANCE

The LISMAP is an ultra-modern mapping system bridges the gap between the property and business owners and government on spatial planning issues. It presents the most suitable platform for resident management and organizational management both at the lowest and highest levels. This application can help governments understand their people to make decisions based on facts. Most importantly, the system cuts down costs whilst generating revenue for the nation significantly. This is a system that should be integrated on all government platforms.

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