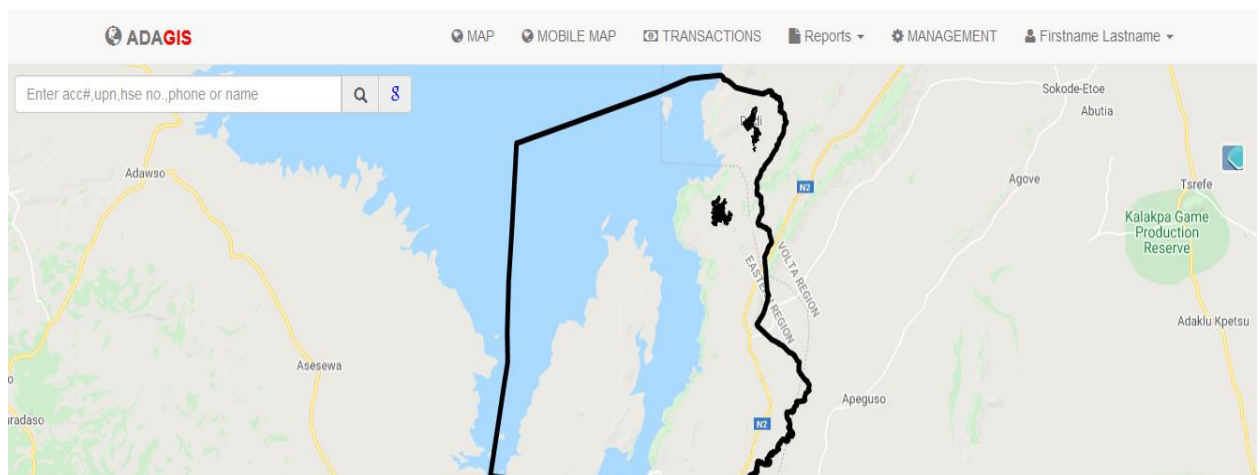# Smart Surveyors for Land and Water Management

Jeffrey EBENEZER NUERTEY ABLADE

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 facilities, buildings with house numbers or electricity meters, 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. It links the resident's information to the local government authority as well as their location to pave way for a more advanced management system. Above all, LISMAP is a very user-friendly application that can be used by all.
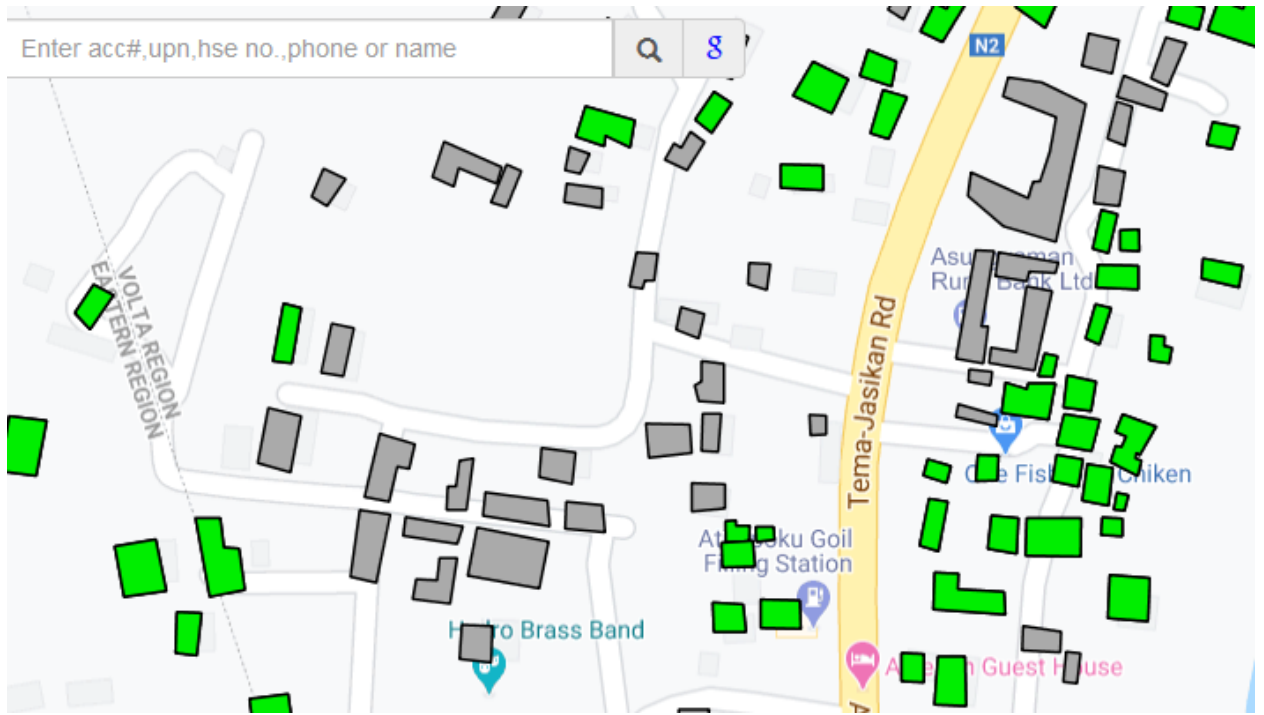
OBJECTIVES OF THE LISMAP APPLICATION

- To create a spatial database of properties and businesses in the area of interest.
- To create a spatial database of residents in the area.
- 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 give a road direction or map (navigation) to any property, business or residents location for any purpose.
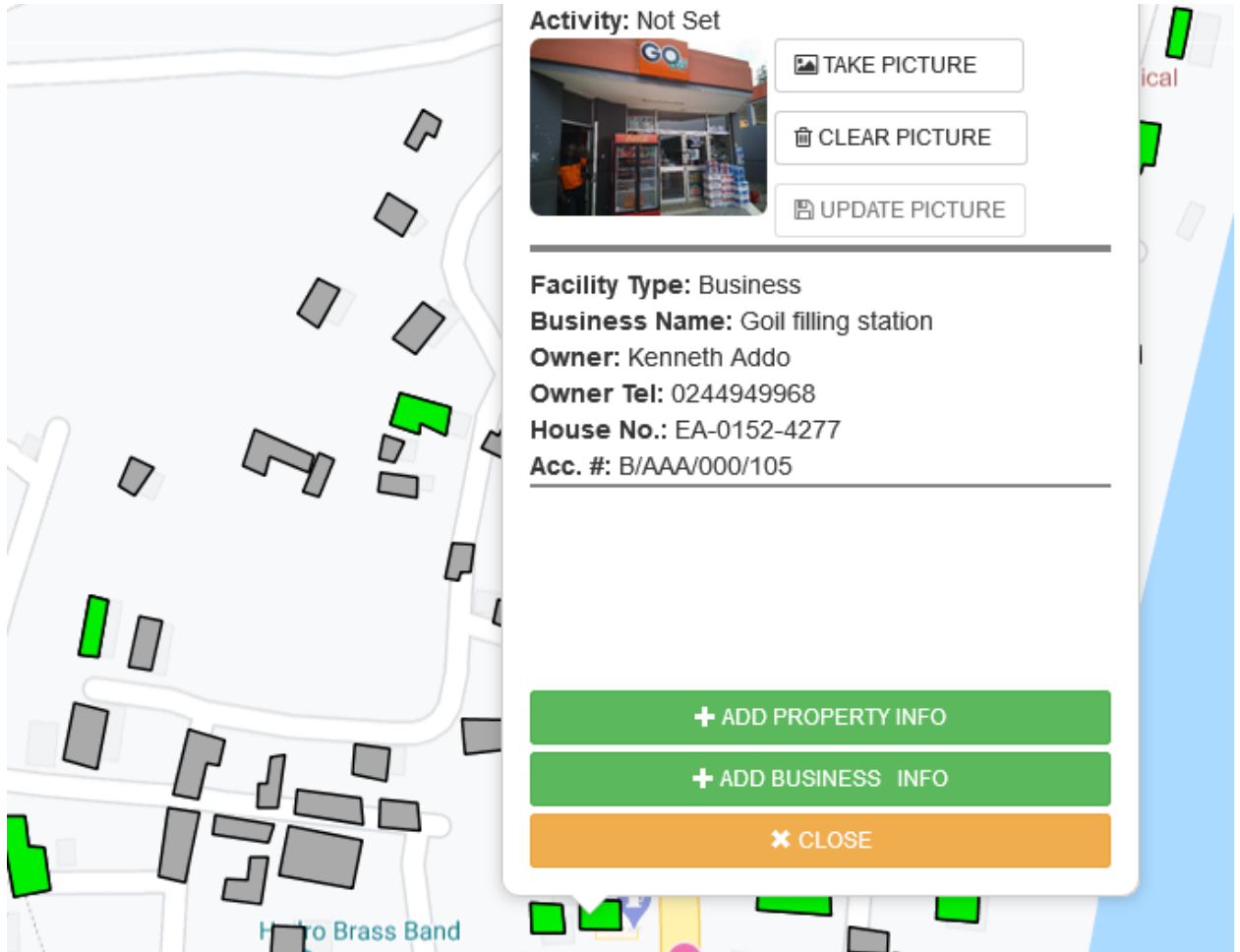
Below are some thematic pictures of LISMAP

FIG 1

FIG 2

FIG 3

RESULTS

LISMAP seeks to aiding government agencies with the following;

- The government will now have information about every structure in its jurisdiction in real time.
- The government will save time and most importantly money immensely since there will be a control in implementation of policies. The government can now allocate resources to various areas appropriately.
- 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.
- Better decisions can be made by the local government in terms of selection of good locations for opening small offices in the municipality to create ease of access for residents for any purpose.
- 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 that one can relate to easily. It 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. In today's highly competitive business environment, innovativeness should be incorporated to make it easy to be financially sound. 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.

CONTACT

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