

RAMANI GEOSYSTEMS

A brief statement of activities in Photogrammetry, Remote Sensing and Geographical Information Systems

Ramani Geosystems is a young rapidly growing company based in Nairobi Kenya, providing geospatial solutions to the entire country including other East Africa countries of Uganda, Tanzania, Rwanda, Burundi, Sudan, Ethiopia and Somali. It has highly manifested ambitions to extend its services to Central Africa and, in future, capture the entire African region.

To ensure our clients' satisfaction, we have diverse our services into the following three main categories

1. REMOTE SENSING

a. Aerial Photography

Ramani Geosystems forms one of the leading Photogrammetry company in Kenya, providing real time high resolution imagery to clients' satisfaction. We do provide earth images to a wide range of clients derived from various fields in government and non-governmental organizations including; agriculture, urban planners/municipal councils, conservation bodies, telecommunication, security agents etc.

Upon execution, Ramani Geosystems has invested highly in acquiring an aeroplane with a camera mount system. This has enabled the company to cut an edge in emergency response exercises and immediate production of digital images.

Images acquired are handled, processed and interpreted by technically trained and experienced personnel who ensure production of high quality images via mosaicing, color balancing and georeferencing. To ensure reliable georeferencing, the company has a team that specializes in collection of Ground Control Points GCPs that are used in aerial photograph orientation. The GCPs comes with additional height elevation values (including building heights) that have seen extraction of DTM/DEM, playing a very important role in mobile telecommunication sector and disaster response initiatives especially in flood mitigation exercises.

In addition, plans are underway to acquire a new camera system that will see a drastically reduced waiting time in processing since the new camera, DSS 439, will come with automated mosaic, color correction and georeferencing capabilities.

Satellite Imagery

With the major aim of Ramani Geosystem being to satisfy clients need, we have always ensured provision of a wide range of satellite images for our clients to have a wider field of choice. These include images from: Landsat, Asters, Radasat, Spot, Ikonos and Quickbird. In addition, we do have a well elaborated and maintained database consisting of an archive of old imagery and newly acquired images – a recipe highly searched for and appreciated by conservation bodies and urban planners in monitoring changes over time.

GEOGRAPHICAL INFORMATION SYSTEMS (GIS)

Location based dataset are currently becoming a prerequisite in all earth data acquisition activities. As a result there has been a need to incorporate Geographical Information Systems in almost all sorts of dataset since this has enable easy extraction of information on location of a particular item, including its attribute data such as name, date and time.

Ramani Geosystems ensures generation of Geographic information both in digital and hard copy format depending on the clients need. We do have a committed and well trained staff who ensure data generation and processing. These involve field oriented staff who make use of GPS receiver gargets to ensures regular supply and update of vector data ranging from point of interest (hotels, petrol stations, hospitals, banks, police stations, schools etc) and graded road network all over the country. In addition, Ramani Geosystems has an office oriented and efficient digitize team that ensures conversion of raster images into digital vector format. The team has also ensured conversion of old and newly surveyed hard copy topographical maps into computer based soft copies via scanning and digitizing that have proved easier to store and retrieve upon reference. We do also create and provide classified and/or unclassified clutter data depending on clients need. However we do ensure we go a step further by creating classified data via detailed ground truthing to always ensure our clients gets a true representation of what is in the ground.

Our GI initiative covers both governmental and nongovernmental organizations/private sectors. A large variety of database has been created, maintained and regularly updated to match developmental exercise and also monitor destructive practices such as deforestation, poor sanitation including urban garbage pileups. We do provide/target GI data to government departments such as local government (municipality), forestry and conservation, transport, roads and housing, agriculture, security agents; and, nongovernmental organizations/companies dealing with conservation, telecommunication, security, vehicle flights.

On Remote Sensing and GIS data generation, processing and analyzing, we have always ensured database integration and operability. In this regard, our data are operated and store in various convertible formats to ensure easy integration with clients' software and also sharing with interested commercial and noncommercial parties.

3. SURVEY SERVICES

In addition to Remote Sensing and GIS, Ramani Geosystems has cut itself an edge in the Survey technology field and market in Kenya. We do offer a broad range of surveying services including high order geodetic surveys, topographic surveys, cardastral survey and aerial surveys. Our services have been of great application in various areas including agriculture, transboundary demarcation, conservation range/ranchland, civil engineering works. With high accuracy required in such execution, Ramani Geosystems has always ensured usage of advanced technologies with minimal errors possible. Satellite receiver gargets such as GPS, RTK and Total Stations have been used and their data processed and analyzed in details.

Ramani Geosystem goes a step further in providing consultation services in the field of Remote Sensing, GIS and Survey. It also involves itself into various research activities of the client especially in the field that our staff are technically acquitted to. These include aspects of natural resource management, business intelligence, telecommunication advice, information technology, urban planning, agriculture; all these to enable the client clearly understand the imagery and have future projection of his/her business operations and sustainability.

With an organized team work initiative, Ramani Geosystems has always been a hub/starting point for college students. In this regards, we have stood high with equipping young professional with latest technologies in their respective field making them reliable employee in future.

Hence, it is with this regards and interest to always keep up with new technological advances; up-to-date with evolutions in Photogrammetry, remote Sensing and GIS; joining a network of other



Land Survey GIS & Mapping Remote Sensing

companies with similar/advanced services; and, an urge to provide our clients with the best services; that we have developed an interest to join the ISPRS Society as Sustaining Members.

Hope you will place our application into consideration.

PUTTING AFRICA ON THE MAP

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