

COMPANY PROFILE 2017



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ABOUT US

Geospatial Research International - GRI is global Consultancy firm focused on the applications of Geospatial Technologies on Natural Resource Management (Environment, Water, land), Agriculture and Community Development services. GRI is a duly registered Company in Kenya in accordance with the Companies Act under the **Women Category Special** Groups.

The adoption of the Millennium Development Goals, drawn from the United Nations Millennium Declaration was a seminal event in the history of the globe that constituted unprecedented promise by the world leaders to address as a single package the burning issues of peace, security, **development**, human rights and fundamental freedoms. It is in line with this that GRI has a main goal to employ the use of modern Geospatial technology to assist players conform to, and address **developmental** issues across Sub-Saharan Africa towards sustainability.

The company uses a global delivery model in GIS and Remote Sensing application in providing solutions in day to day challenges and it offers a wide range of services commensurate with in-house expertise. The company boasts of seasoned professionals that bring together multi-disciplinary, multi-national experts from both academia and consultancy backgrounds, who have many years of experience and committed to giving excellent services to its clients.

The world of innovation is our laboratory and no matter where discovery takes place; GRI researchers and professionals push the boundaries of science, technology and business ideas to solve real challenges. GRI is a global community of forward-thinkers working towards a common goal- **PROGRESS**

OUR OPERATIONS

With our focal office located in **Nairobi, Kenya**, our operations extend across countries in the IGAD and SADC economic regions. Our business activities are predominantly in Kenya, Uganda, Rwanda, Tanzania, Malawi, Namibia, Zambia, Botswana, with a footprint in Ethiopia, Mauritius and Mozambique.

OUR CLIENTS

Our clients are as diverse as the professional services and products that we offer. They include Governments, Farmers, Architects, Surveyors, Construction companies, Commercial developers, Civil and Structural Engineers, Housing Associations and Non-Governmental Organizations, all of whom benefit from our knowledge and acquaintance with the East and Southern Africa region.

We have a unique approach of working closely with our clients to develop a detailed understanding of specific project requirements on a case by case basis. We draw on our experience and extensive knowledge to provide a summary of the potential feasible schemas; tailored to the anticipated project characteristics, saving time and reducing project costs for our clients.

As GRI, we endeavor to drive our potential abilities and motivation to serve the needs of local, national and regional markets through focused, innovative, efficient and quality products and services in all areas of **Geospatial technology** and related applications

OUR CORE COMPETENCE

- i) Horizontal and vertical integration of satellite/aerial Remote Sensing, Photogrammetry, GPS Applications, Geo-databases, GIS Applications, GIS web-services, GIS Portals and Enterprise GIS solutions for the delivery of state of the art platforms for proper decision making in management of resources.
- ii) Seamless integration of spatial technology and conventional IT solutions in Agriculture, Environment & Climate Change, Natural Resource Management, Land administration, Urban & rural planning, Market analysis, Demography, Community Development among other application areas.
- iii) Hosting, archiving and maintenance of current remote sensing and GIS data content generation facilities for mapping from aerial and satellite images, photogrammetry systems, GPS systems and a variety of IT infrastructure.
- iv) Engagement of highly skilled, multi-disciplinary and competent team of technocrats and scientists from different Nationalities and backgrounds, having rich experience in GIS, Remote Sensing and allied disciplines; - professionals who are committed to the goal of our vision.

OUR MISSION AND VISION

Mission:

To offer cutting edge technological solutions in the fields of Agriculture, Environment & Climate Change, Natural Resource Management, Community Development, and business services all geared towards enhanced productivity and sustainable livelihoods.

Vision:

To be a premier and preferred world class consulting firm in embracing technology to offer professional services in Agriculture, Environment & Climate Change, Natural Resource Management, Community Development, and business services

OUR VALUES

Innovation: We redefine happening discoveries by stepping outside of the laboratory and challenging the status quo to solve complex problems through latest geospatial technology applications

Professionalism: Our conduct, aims, and qualities characterize our competencies and passion for engagements with clients

Respect: We uphold respect for our clients and stakeholders

Honesty: We adhere to the facts and observe fairness and straightforwardness in our conduct

Integrity: We are a firm endeared to the code of moral values, modesty and soundness

Accuracy: Our communication and reporting conform to truth and exactness

Timeliness: We deliver on time

OUR SERVICES

A ENVIRONMENT

- i. Land use and land cover mapping
 - Satellite imagery processing and interpretation
 - Land use Land cover change detection and trend analysis
 - Species mapping
- ii. Climate change
 - Green House Gas Inventory Development
 - Green House Gas Mitigation options
 - Climate Change Vulnerability and Adaptation
 - Climate Change Education and Awareness
- iii. Water resource management and mapping
 - Hydrological modeling
 - Service Area Mapping for Water Service Providers
 - Watershed/catchment characterization and mapping
 - Ground water mapping
 - Environmental Impact Assessments and Audits
- iv. Dry land resource management mapping
- v. Land degradation assessment and mapping
- vi. Bio-diversity management
 - Biodiversity vulnerability mapping
 - Forest mapping
- vii. Environmental disaster forecasting, management and early warning Systems
 - Fire mapping
 - Flood mapping
 - Drought mapping
 - Frost mapping
 - Locust mapping
- viii. Natural Resource Management
 - Natural Resource Mapping
 - Natural Resource Inventory Development

B HYDROGEOPHYSICAL AND HYDROGEOLOGICAL SURVEYS

- i. Geophysical services
 - Characterization of contaminant plumes and hydrogeology for subsurface flow paths
 - Non-invasive characterization of geological materials and geotechnical hazards
 - Aquifer characterization and depth to bedrock mapping
 - Optimization of mineral extraction through remote sensing
- ii. Hydrogeological services
 - Aquifer Studies
 - Water Balance Studies and Artificial Recharge of Aquifers
 - Flow and Contaminant Transport Modelling
 - Regional and Local Hydrogeology Studies for Environmental Impact Assessments

C AGRICULTURE

- i. Precision farming
 - Precision farming application and mapping
 - Purchase of precision farming equipment
 - Precision farming survey
 - Crop yield and stress monitoring/forecasting
- ii. Food security forecasting
 - Resources and pastoralist mobility mapping
 - Crop yield forecasting
 - Agricultural resource mapping
 - Water quality assessment mapping
 - Socioeconomic mapping and responsiveness

D GENERAL GEOGRAPHICAL INFORMATION SYSTEMS (GIS) APPLICATIONS

- i. GPS Location/Entity Mapping
- ii. Spatial Data Base Management Systems; Development and Management
- iii. Map design and Cartography
- iv. Data Base Management Systems; Development and Management
- v. Web mapping

E SOCIO ECONOMIC SURVEYS

- i. Services and amenity mapping
- ii. Utility mapping
- iii. Inclusion Modeling (Financial, Social etc.)

F NEEDS ASSESMENT, TRAINING AND CAPACITY BUILDING

- i. Basic and advanced GIS
- ii. Basic and advanced Remote Sensing
- iii. Applied GIS and Remote Sensing
- iv. Basic and Advanced GPS Technology
- v. Spatial data Handling and Management
 - Pre-field, field, and post field procedures and protocols
 - Spatial Database Management Systems Development and Administration
- vi. Community empowerment and Development
 - Compassionate technologies for vulnerable groups
 - Girl child and youth empowerment