



## Geospatial solutions for Africa and beyond



**GeoSpace International (Pty) Ltd is a Pretoria (South Africa) based company that has been active in the geospatial industry since 1989.**

Key to our success is our understanding of the unique challenges of Africa. We combine appropriate geospatial technologies with our subject matter expertise in domains such as surveys and mapping, official statistics (censuses and surveys in particular), field surveys, education, health and energy to provide relevant and realistic solutions to our clients. We have provided products and services to clients/beneficiaries in more than 15 countries.

GeoSpace is a South African Broad Based Black Economic Empowerment (BBBEE) compliant service provider.



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# A unique service offering

## Aerial Photography

GeoSpace is the leading aerial photography operator in Southern Africa. We operate a DMC I as well as a DMC III from Leica Geosystems®. Leica Geosystems® is part of Hexagon®. The industry-leading swath of the DMCIII enables swift coverage of large areas at ground resolution (GSD) of 30cm or better. The DMC systems delivers GIS ready images, enabling direct production of a wide range of deliverables. We provide the best quality digital aerial photography currently available at competitive prices and unrivalled production capacity on the African continent. Applications include Town- and Regional Planning, Engineering, Census, Surveys and Mapping, Agriculture, Forestry, Mining, Environmental management and navigation applications. We have a vast imagery archive for the SADC region. This includes complete coverage of South Africa at a GSD of 50cm from 2009 to 2016. From 2017 onwards the GSD is 25cm or better.



## Census

GeoSpace has established itself as the leader in census solutions and sample surveys in Africa. We have done census mapping, census planning technical consultancies and training in more than 15 countries. Our SmartClient for Census client-server pre-enumeration mapping software solution has evolved into Smart.Census. Smart.Census is a modular client-server product with online and offline modes that covers ALL the phases of a modern census: Pre-Enumeration mapping; Enumeration; and Dissemination. Smart.Census, based on Hexagon Geospatial's M.App Enterprise platform, has a spatial engine with all the functionality required for the three modules of the product. This is combined with a powerful workflow- and workforce manager. The Pre-Enumeration mapping module is an improved version of SmartClient for Census. The Enumeration module integrates with recognised CAPI platforms. Dissemination is done through Hexagon Geospatial's exciting Smart M.Apps platform. It replaces traditional static dissemination methods such as reports with dynamic maps, graphs and tables to enable optimal visualisation and dissemination of statistics through the Internet. In short: Smart.Census provides a total solution that can be configured to meet the specific needs and requirements of each unique country/census. Clients include national statistical offices and development partners such as the World Bank and UNFPA.



## Field surveys

GeoSpace Field Surveys started more than two decades ago. Today GeoSpace has an unrivalled track record in large scale socio-demographic field surveys in South Africa and is arguably the largest field survey company on the African continent. We have vast experience in using the Computer Assisted Personal Interviewing (CAPI) methods which improves sample realisation and the overall accuracy and control of a survey. This approach is especially relevant in African countries where the majority of the population does not have formal addresses. Clients

include the Presidency (South Africa), Department of Social Development (South Africa), The Human Sciences Research Council (South Africa), Municipalities and Universities.



## Consulting

GeoSpace is a leading Geospatial Consultancy service provider in Africa. Our philosophy is to build long-term relationships with our clients by providing solutions rather than merely selling standard software and imagery products. Hence we place strong emphasis on technical consultancies, training as well as software development and customisation. Our team of consultants and software developers constantly strive to provide solutions that addresses the unique needs of our clients. The training that we offer is then aligned with the solutions that we provide making it relevant and hence ensuring maximum impact. Our domain expertise include: Census, National Mapping, Transport, Energy, Government, Education, Health and Agriculture. We have successfully implemented geospatial projects that includes technical consultancies and training for several private, government and development partners in more than 15 African countries.

## Hexagon Geospatial®



The partnership with Hexagon Geospatial goes back to 2002. We are not merely a GIS software reseller - we are a geospatial solution provider. Hexagon Geospatial provides us with the suite of products and tools that enables us to build innovative client-specific solutions through long-term Service Level Agreements (SLAs). Some of our more significant SLAs clients include:

- Chief Directorate: National Geospatial Information (CD: NGI) - since 1998
- South African National Roads Agency (SANRAL) - since 2001
- Statistics South Africa (StatsSA) - since 2017



**The Hexagon suite of products can be grouped in two categories: Power Portfolio and M.App Portfolio.**



The Power Portfolio® organises Hexagon Geospatial's products into suites, combining the best photogrammetry, remote sensing, GIS and cartography technologies available.



M.App Portfolio is a cloud-based geospatial platform that can be used to design, build and host Hexagon Smart M.Apps and core geospatial web services for building geospatial cloud applications. The on-premise version of the platform is called M.App Enterprise.