



MINERAL EXPLORATION

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Southern Mapping is able to provide a phased remote sensing approach to mineral exploration mapping. Freely available, multispectral satellite imagery and DEM data are typically employed in the early exploration phases to derive broad spectrally based geological, mineralogical and structural maps as well as high potential target zones. An Airborne geophysical survey focused on the high potential targets, in conjunction with an optimized field exploration program typically constitutes the second phase of the remote sensing based mineral exploration service offering.

Southern Mapping is the only company in Africa able to offer Airborne hyperspectral imaging as an alternative to traditional geophysical approaches. Operating on the principal that surface minerals exhibit unique spectral reflectance properties allowing for unprecedented mineral mapping accuracies to be achieved. The technology is suited to deposits associated with alteration minerals like Clays, Micas, Chlorites, Amphiboles, Carbonates, and other Phyllosilicates. A LiDAR system coupled with a digital camera is used for the most accurate elevation model and orthoimagery generation for bankable feasibility studies and mine planning.

ABOUT SOUTHERN MAPPING

Southern Mapping provides LiDAR, Hyperspectral, Thermal surveys and mapping; as well as satellite imagery and associated product and GIS services for a variety of industries and sectors. These include civil engineering and infrastructure development, mineral exploration and mine management, environmental planning and rehabilitation, and urban and agricultural planning.

