

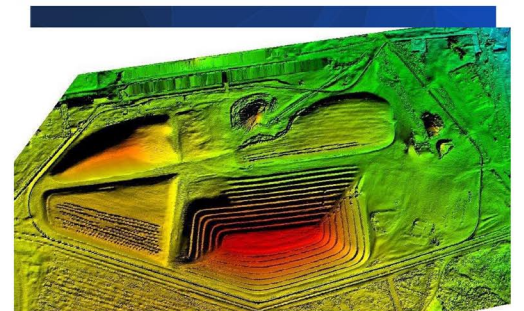
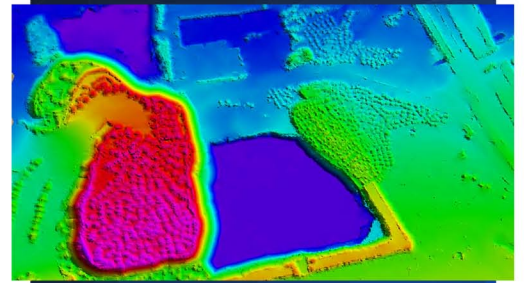
Mine Rehabilitation Monitoring

Southern Mapping provides solutions for environmental and mine rehabilitation monitoring through its access to daily passing, high resolution multispectral satellites and its airborne mounted hyperspectral and lidar camera systems.

Utilizing imagery acquired in the short-wave infrared wavelengths of the electromagnetic spectrum, it is possible to map the vegetation health of plants. This is based on the principal that healthy plants have more chlorophyll in their leaves than unhealthy plants, and that infrared light is both sensitive and strongly reflected by chlorophyll. By mapping the relative chlorophyll content of rehabilitated sites in conjunction with in situ measurements on plant species and performance, it is possible to map stressed zones (often indicative of pollution point sources) and the success of rehabilitation projects month by month or season by season. Using the rich spectral content of the airborne hyperspectral imagery, it is also possible to monitor hydrocarbon spills, alien vegetation species, acid mine drainage pollution point sources and water quality as input to environmental programs.

About Southern Mapping

Southern Mapping is based in Johannesburg, South Africa. Southern Mapping offers extensive high-accuracy lidar, imagery and remote sensing experience, as well as airborne topographic, hyperspectral, and thermal survey and mapping. We provide mapping services for engineering, infrastructure, mining, mapping, agriculture and environmental sectors in more than 45 African countries. Together with our parent company, Woolpert, our talent includes a deep bench of worldwide, industry-leading experts that acquire, process and evaluate aerial, terrestrial, and bathymetric lidar and survey data. Through that alignment, we employ our own fleet of manned and unmanned aircraft and cutting-edge sensors for both public and private applications. Southern Mapping is proud to be part of this powerful geospatial team and apply a wealth of unparalleled services throughout Africa and across the globe.



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