



Fugro Spatial Solutions



Fugro Spatial Solutions is the premier provider of spatial services to the regions major coal, iron ore and mineral producers.

Turning Spatial Data Into Knowledge

Fugro Spatial Solutions Pty Ltd works with clients to provide the geospatial information and systems required to turn spatial data into knowledge. Across the world, Fugro is working to reduce uncertainty and add value to projects that demand a unique understanding of our planet.

Mining Services

Fugro is involved throughout the entire life cycle of mining projects. This cycle can last for several years. From the initial exploration, through construction support and optimisation to final decommissioning, Fugro is able to provide all supportive services. Fugro Spatial Solutions, part of the worldwide Fugro group, specialises in spatial services that support mine industry requirements such as:

- Mine Mapping
- Product Reconciliation
- Rehabilitation & Waste Dump Mapping
- Subsidence Measurement
- Environmental Baseline Monitoring
- Infrastructure Surveys
- Lease Surveys

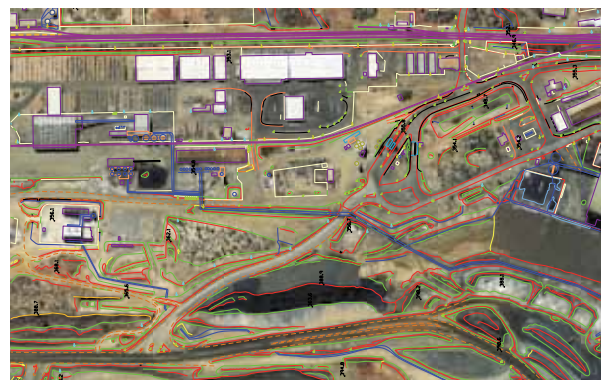
The spatial services used to support these requirements include Aerial Imagery, LiDAR, Satellite Data, Ground Survey and Geographic Business Solution development. Technology is rapidly changing and Fugro Spatial Solutions is at the forefront of adoption of new technology to provide safety and cost effectiveness to our clients. Fugro Spatial Solutions is able to assist with your project requirements.



Aerial Imagery - WA Site



Satellite Imagery - QLD Site



Aerial Imagery with Photogrammetry

Mining Services

Aerial Imagery

Working in digital form provides flexibility and allows for image colour correction, mosaicing and enhancement of existing image features to facilitate seamless aerial image data sets. "GIS ready" data is our objective via the support of major industry standard data formats. Digital imagery in conjunction with photogrammetric techniques can be used to generate cross sections, contour overlays, Digital Terrain Models, volume calculations and conventional detail maps.

LiDAR

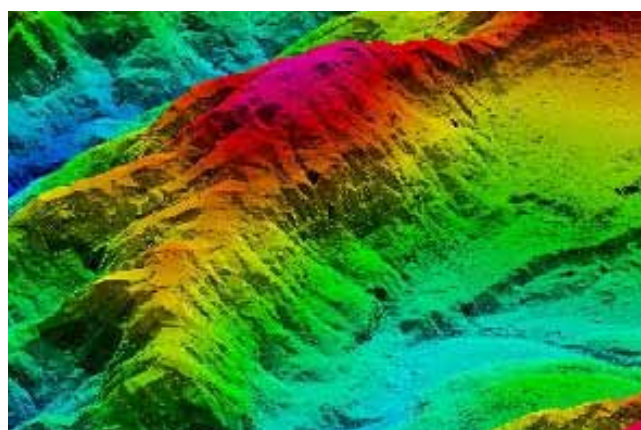
LiDAR, or Light Detection & Ranging, is a means of rapidly creating an accurately detailed model of terrain, infrastructure or vegetation. LiDAR systems collect the positional (x,y) and elevation (z) data at pre-defined intervals, resulting in a dense point cloud. Products such as Ground DEM, Model Key Points and Contours can be generated.

Satellite & Radar

As a leading independent provider of Satellite Imagery and Value Added Services, Fugro Spatial Solutions can acquire, process and deliver satellite imagery from a wide range of resolutions from all the major satellite operators. Fugro Spatial Solutions will identify the optimal satellite data, mapping or imagery analysis techniques to fit your project scope, budget and timescale.

Land Survey

Our team of highly professional and experienced surveyors excel in the delivery of precise measurements for the mining, engineering and construction industries. Our expertise and precise electronic equipment allow for millimetre and better accuracies using dimensional control surveys as well as terrestrial laser scanning for monitoring and mapping of mine sites.



Geospatial Solutions

GIS services in close consultation with our clients in order to achieve the best possible outcome for the application of our clients product. Our experienced team specialise in managing the data that is collected into our clients systems as well as being able to design and implement specialty software solutions that can assist in mine safety such as monitoring alert systems.

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