

TERREX SPATIAL



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Terrex Spatial provides full service surveying solutions in-house for seismic, mining, local council and engineering clients.

Terrex Spatial is the surveying branch of the Terrex Group of companies, which includes Terrex Seismic and Terrex Contracting.

Terrex Spatial provides highly accurate, specialised and fully customisable surveying solutions to all clients requiring spatial data services. Terrex Spatial brings together the pioneering spirit of two decades of surveying innovation with the established operations strength of the Terrex Group.

Terrex Spatial is able to fully customise software or processes to capture specific data for clients. Industry innovators, the company actively sources and invests in only the most advanced equipment, utilising the latest in Rapid Elevation Meter (REM) barometric levelling, GPS mounted bulldozer guidance systems and real-time GIS and GPS applications.

At the fore-front of GPS and GIS technology, Terrex Spatial utilises the following types of equipment:

- Digital Quartz Barometers (REM)
- Dual Frequency GPS receivers
- Glonass Enabled GPS receivers
- Digital Compasses
- iMAR Inertial Measurement Unit
- Geodimeter and SOKKIA Total Stations



Summary of services

Terrex Spatial provide surveying expertise and services for companies in the Oil & Gas, CSG, Shale Gas, Geothermal, Coal and Minerals resources industries.

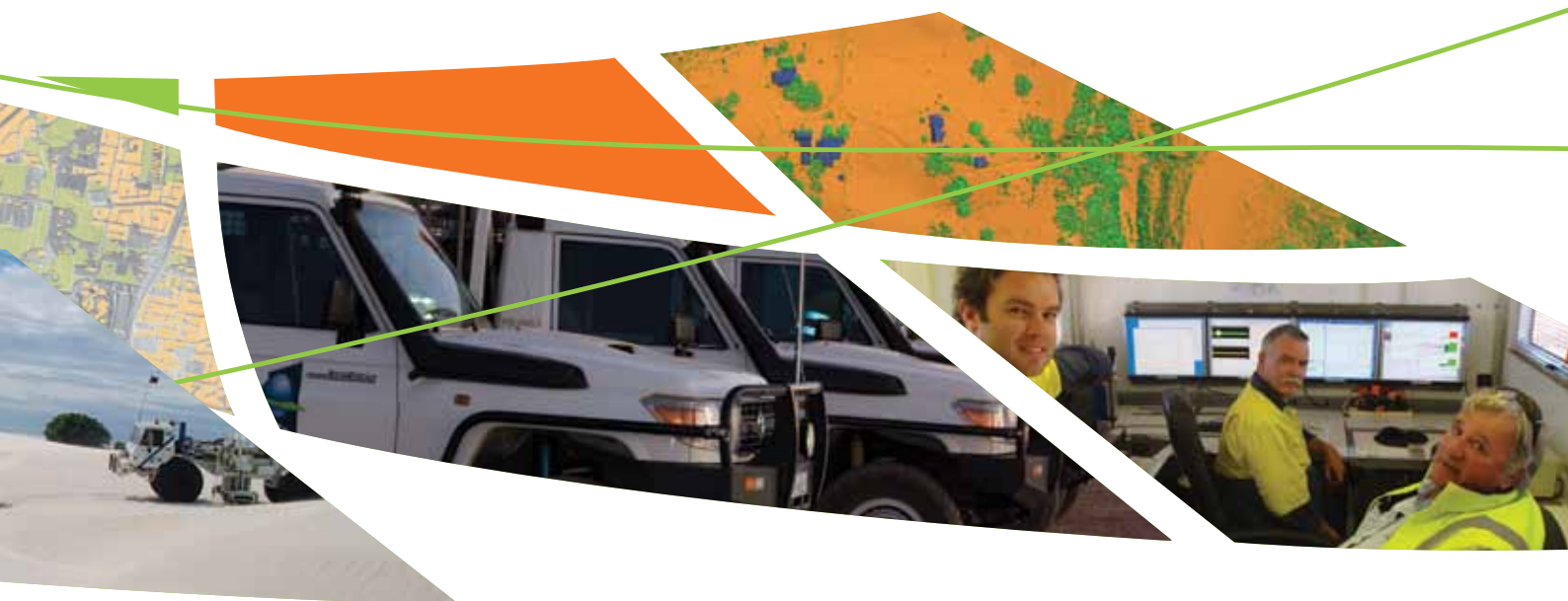
The services provided include:

- Hi-Res LiDAR Aerial Surveillance Mapping
- GIS Specialist Data Capture and Refinement
- Digital Cadastral Database (DCDB) Upgrades
- Terrain Modelling
- Gravity Surveys
- Seismic Exploration Surveys
- Geodetic Control Surveys
- Machine Guidance
- Engineering and Mining Surveys
- Borehole Setout and Surveys
- Monitoring Surveys
- Well Location Surveys
- Pipeline and Power line Location Surveys
- Groundwater Mapping

Skilled, highly motivated personnel and state-of-the-art surveying technology

Terrex Spatial ensures that all projects are well managed with efficient use of technology, equipment and labour resources. Terrex Spatial conforms to the highest levels of HSE, having developed safe and environmentally sound work practices.

Terrex Spatial operate with a Quality Management System that is certified to ISO 9001.



Seismic Exploration Surveys

Terrex Spatial undertakes all the line pointing and line surveying requirements of each seismic survey. Line pointing and surveying utilise the latest GPS technology, operated by experienced field personnel with particular expertise in seismic GPS surveying.

Through the synergies experienced by combining LiDAR, environmental and cultural heritage surveying and GPS technology, Terrex Spatial is able to efficiently pre-plan seismic surveys. This effectively minimises the potential impacts to culture and environment, as well as reducing exposure to hazards for all field staff.

Geodetic Control Surveys

Applications for accurate geodetic surveys include:

- Geodetic control surveys
- Well location surveys
- Control for aerial photography
- Pipeline surveys
- Control for LiDAR
- Subsidence monitoring surveys

Gravity Surveys

Using a LCR Gravity Meter, the Terrex Spatial team has developed techniques that combine the latest in GPS, Gravity meters and computing technology, to provide accurate and cost-effective surveys.

Hi-Res LiDAR Aerial Surveillance

LiDAR is a cost-effective addition to land seismic data acquisition programs and provides valuable spatial solutions for our clients. Terrex Spatial's High Definition LiDAR offers a shift in the level of detail and accuracy attainable in the mapping of terrain, infrastructure and vegetation.

The innovative, air-borne technology scans the ground with an array of laser pulses which record and depict ground formations. Once processed, the featured physical surface can be mapped to an extremely high resolution. Using this technology, Terrex Spatial can provide a fast and efficient method to attain high resolution imagery and topography over a large area.

LiDAR data can be flown early in the project life cycle and used initially to produce digital terrain models, contours and ortho-photography. This dataset provides a valuable tool during the survey planning stage, reducing and focusing the efforts for on-ground scouting. Through better pre-planning, environmental impact and H&S exposure for field staff is reduced.

Terrain Modelling

Accurate, cost-effective surveys using GPS and computing technology for applications including:

- Digital terrain modelling
- Irrigation planning
- Flood studies
- Subsidence monitoring surveys
- Rehabilitation surveys

GIS Applications

The integrity of any GIS is determined by the quality and organisation of its spatial data. Terrex Spatial uses GIS Services to capture, store, analyse, manage, and present data with reference to geographic location data for the following surveys:

- Data transformation and conversion
- Capture of Digital Road Centreline and footpaths
- Infrastructure and asset mapping
- Data analysis
- Aerial photo control
- Customised GIS solution

Digital Cadastral Database (DCDB) Upgrades

Terrex Spatial has adjusted more than 100,000 cadastral parcels throughout Australia for local councils and shires. The DCDB (Digital Cadastral DataBase) is a digitised data set of cadastral boundaries whose spatial accuracies range from 100mm to 500 metres.

Updating the database is completed using a system whereby metes and bounds for all cadastral parcel boundaries are entered into a database, cadastral corners linked to accurate on-ground control and least squares analysis is undertaken, cadastral boundaries are able to be upgraded to an accuracy of 100mm (at the 95% confidence interval).

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