



WOOLPERT MINING CAPABILITY

Delivering measurable outcomes across the mining lifecycle



Overview

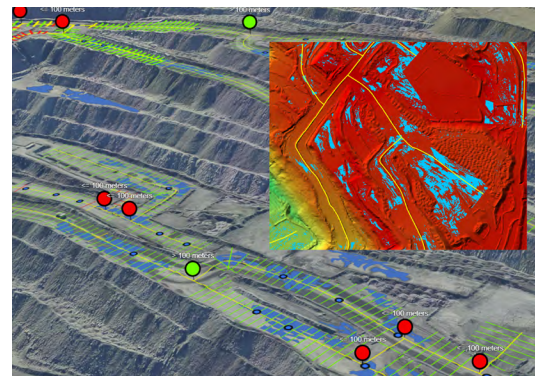
Woolpert is a global leader in architecture, engineering, and geospatial (AEG) services, with over a century of experience driving innovation and delivering impact. We fuse deep technical expertise with a forward-thinking mindset to solve complex challenges across the public, private, and government sectors.

As a global company with over 3,000 staff across more than 75 offices, we're agile and responsive – ready to support our clients wherever and whenever needed. We don't just stay at the forefront of technology, we actively strive to discover and implement ever-advancing techniques for smarter solutions. Our reputation is built on leadership in integrated solutions, client commitment, and proven performance.

Mining services

Woolpert is a trusted leader in delivering spatial data solutions to the mining and resources sector across the Asia-Pacific. Using state-of-the-art technologies, we capture, analyse and visualise geospatial data to support informed decision-making across the mining lifecycle.

With aircraft, specialised equipment and expert teams strategically based in the Hunter Valley, Central Queensland and the Pilbara, we respond quickly and efficiently to client needs. These regional assets, combined with automated cloud-based processing, enable fixed-date capture and rapid turnaround of high-quality information.



From data capture to operational advantage

Mining demands certainty - around volumes, materials, water, safety, compliance, and long-term asset performance. Woolpert partners with owners and operators to turn geospatial data into clear, defensible outcomes that improve decision-making across the full mining lifecycle.

Our holistic approach integrates aerial, mobile, terrestrial, and advisory capabilities into a single, coordinated geospatial ecosystem. Clients don't just receive data, they are equipped with actionable intelligence aligned to production, planning, and compliance needs. What this means for mining operations:



Better alignment between planning, environment, and operations teams



Faster, more confident production and logistics decisions



Reduced operational risk and rework



Independent, auditable measurement of critical assets

Quantifying what matters most

Woolpert's geospatial services are designed around real operational questions, not just technical outputs.

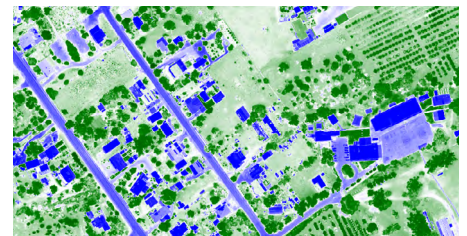
Production & materials management:

- **Stockpile measurement:** Accurate, repeatable volume calculations to support production reporting, reconciliation, and audit requirements
- **Grade mapping:** Spatially enabled insights that support blending strategies and material optimisation
- **Ballast and material estimation:** Quantifying how much ballast or fill material is required for construction and infrastructure projects – reducing over-ordering and downtime



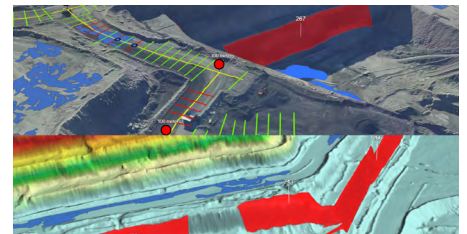
Water, environment & compliance:

- **Water mapping:** Understanding surface water movement, storage, and interaction with mine infrastructure
- **Riparian and creek monitoring:** Supporting environmental compliance and rehabilitation programs through repeatable monitoring
- **Vegetation change detection:** Identifying encroachment, disturbance, and rehabilitation performance over time using multi-temporal datasets



Infrastructure & facilities maintenance:

- **Corridor capture:** Enables early detection of issues across the full network of roads, conveyors, rail, and site access
- **Plant scanning:** Improves maintenance, clash detection, upgrade planning and safety across processing plants



Thermal & spectral insights:

- **Heat retention analysis:** Using thermal scanning to identify heat loss, inefficiencies, or abnormal conditions in stockpiles, plant, and infrastructure
- **Four-band capture (RGB + NIR):** Enabling analysis of vegetation health, moisture, and environmental, using data captured alongside core mapping

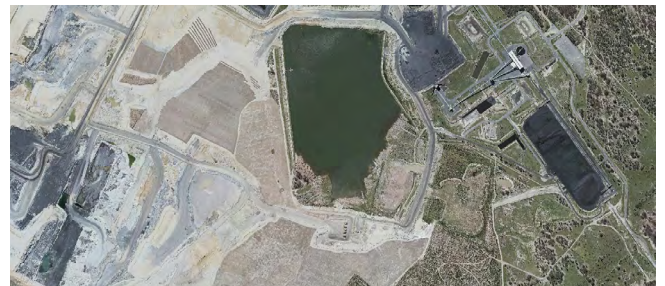


Integrated services, delivered as one system

While Woolpert is recognised for aerial lidar and imagery, our value for mining clients comes from combining multiple capture methods with advisory expertise – all aligned to operational outcomes.

Aerial & Remote Capture:

- Aerial lidar and imagery
- Multispectral and four-band capture
- Thermal scanning
- UAV / RPAS surveys



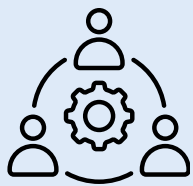
Ground & Mobile Reality Capture:

- Mobile Laser Scanning
- Plant scanning (TLS)
- 3D reality captures
- Tailings storage facility surveys



Digital & Advisory Services:

- Geospatial advisory and strategy
- Data governance and system integration
- 3D modelling, digital twins and spatial analytics
- Independent verification and reporting



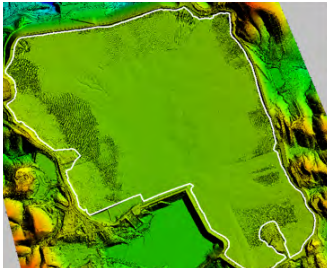
Why this matters

Mining clients work with one partner, not multiple disconnected vendors – reducing interfaces, risk, and duplication.

One partner, every stage

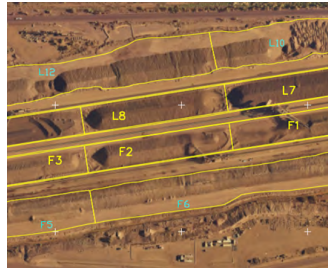
Woolpert supports miners from early planning through to operations and closure, acting as a long-term spatial partner.

Where we add value



Planning & development

Baseline terrain, material estimation, and infrastructure planning



Operations

Stockpiles, grade control support, water and environmental monitoring



Sustaining capital

Plant scans, change detection, and design validation



Closure & rehabilitation

Independent monitoring, vegetation change analysis, and compliance reporting



Our difference

- ✓ Outcomes-first mindset
- ✓ Integrated capture and advisory capability
- ✓ Proven delivery at scale for major mining operators
- ✓ Data that stands up to scrutiny – from boardroom to regulator

Case Study: Cross-Hybrid Mining Survey Solution

Woolpert was engaged to deliver recurring survey work for a mining company in South East Queensland. The scope included bi-annual spatial surveys across three sites: a mine, a coal handling and processing plant, and a marine port.

The LiDAR and imagery data captured is used for stockpile volume calculations and audit reporting. To meet a tight three-day deadline and avoid operational downtime at the port due to air traffic control restrictions on crewed flights, Woolpert deployed an uncrewed aerial survey solution. This approach ensured timely, safe, and efficient data capture while allowing operations to continue without disruption.

