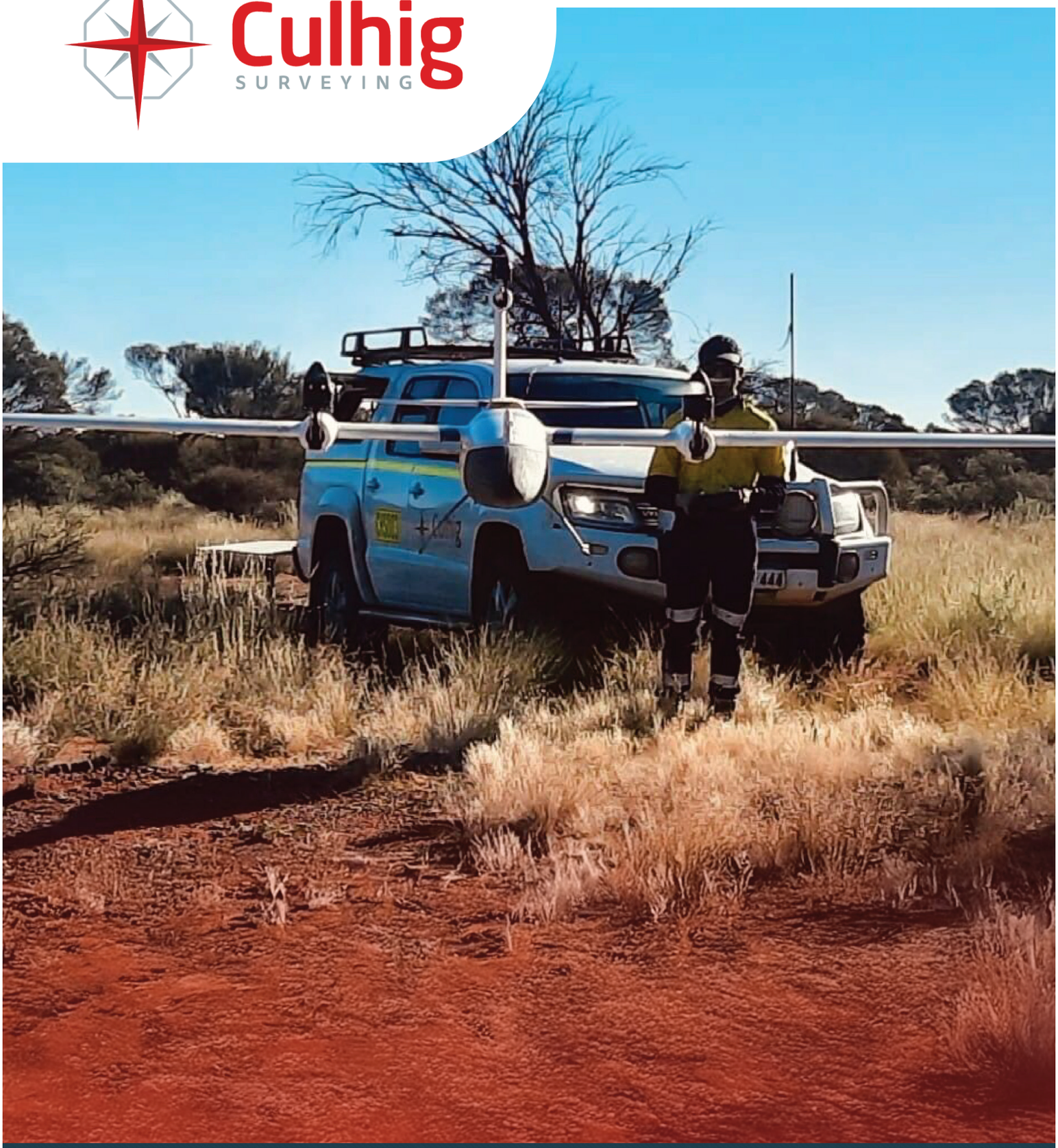
PRECISION • RELIABILITY • EFFICIENCY

Culhig
SURVEYING



# CAPABILITY STATEMENT

# Company Overview

Culhig Surveying is an engineering survey firm delivering precision geospatial solutions to industries across Australia. Based in Perth and established in 2014, we specialise in aerial mapping, Light Detection and Ranging (LiDAR) surveys and advanced geospatial analysis for sectors including mining, construction, civil, energy, agriculture and infrastructure.



***We bring clarity to your projects with high-resolution data, 3D modelling and tailored geospatial services.***

# Our Services

By combining aerial mapping and LiDAR surveys with a skilled team, Culhig Surveying combines aerial mapping and LiDAR to deliver trusted insights for range of industries, enabling informed decisions and successful outcomes.

## Aerial Mapping and LiDAR

Culhig Surveying leverages cutting-edge drone technology and advanced LiDAR systems to provide high-resolution aerial imagery and detailed topographic data.

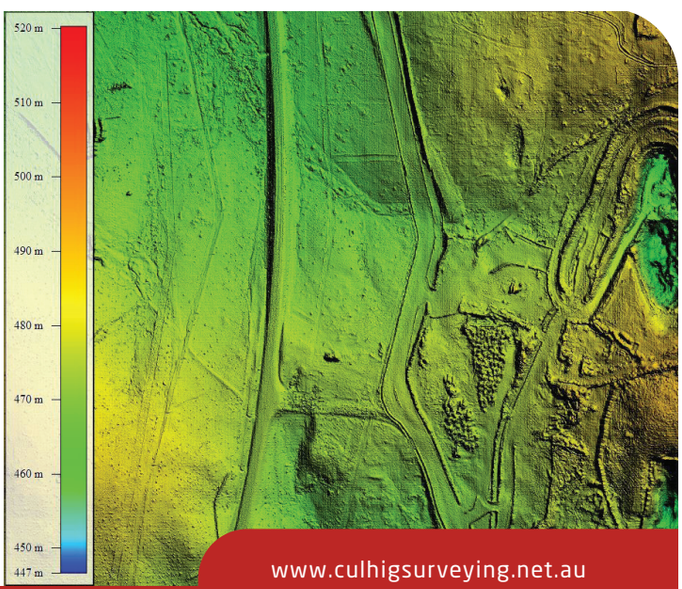
- **Terrain Analysis:** Evaluate natural and man-made features with precise elevation data for effective site assessments and planning.
- **Site Planning:** Create accurate models to optimise infrastructure placement, reduce risks and save time.
- **Environmental Studies:** Support impact assessments with terrain mapping and vegetation analysis for sustainable development.

## Key Advantages of LiDAR Technology

- **Vegetation Penetration:** Accurately capture surface details beneath dense vegetation, allowing precise mapping of forested or overgrown areas.
- **3D Modelling:** Generate detailed 3D models that visualise terrain, structures and project areas, providing valuable insights for planning and development.
- **Scalability:** From small plots to vast landscapes, LiDAR technology ensures consistent accuracy across projects of all scales.

## Additional Surveying Services

- Site Establishment and Conditions Surveys
- Topographical and Feature Surveys
- Design and Engineering Solutions
- Civil and Infrastructure Surveys
- Structural, Mechanical and Piping (SMP) Surveys
- Dimensional Control, Scanning and Modelling
- Digital Detailed Earthworks



PRECISION • RELIABILITY • EFFICIENCY



- **Project Area:** 106 km$^2$ surveyed in the Goldfields region.
- **Flight Operations:** 17 LiDAR and 21 photogrammetry flights completed in just nine days.
- **Data Captured:** 17,778 high-resolution aerial images and five terabytes of field data processed.
- **Cost Efficiency:** Project time reduced from months to days, delivering significant cost savings.
- **Processing Time:** LiDAR data analysed and delivered within 12 days.
- **Accuracy Achieved:** 84% of data within 50mm precision, 16% within 50-100mm.

# Case Study

### The Problem

A mining client needed high-resolution geospatial data for heritage analysis and business operational expansion planning over a 106 km$^2$ area in the Goldfields.

### The Approach

Securing CASA approvals to fly above 120m, we completed 38 LiDAR and photogrammetry flights. Processing 17,778 images, we delivered accurate digital elevation models within 12 days, ensuring data accuracy within 100mm.

### The Results

Our high-resolution imagery and detailed DTMs supported development and planning for heritage and operational expansion. Our aerial capabilities cut the conventional survey time from months to days, providing cost savings and precise geospatial data.

# Industries We Serve

Culhig Surveying delivers specialised geospatial solutions across diverse industries, with precision and insight tailored to each sector's distinct requirements.

- **Agriculture and Renewables**
- **Civil and Construction**
- **Government and Utilities**
- **Industrial and Mining**
- **Oil and Gas**
- **Rail Infrastructure**



# Major Clients

Culhig Surveying's broad range of clients highlights our ability to collaborate with industry leaders across multiple sectors.

EASTERN GURUMA · NRW Holdings · PRIMERO DESIGN | CONSTRUCT | OPERATE · CATALPA A Lighthouse Industries Company · HANCOCK PROSPECTING · EDL

GR Production Services · ventia · Warrikal · FMG Fortescue The New Force in Iron Ore · Monadelphous · TCD

PRECISION • RELIABILITY • EFFICIENCY

# Culhig
SURVEYING



## Accreditations

Our accreditations ensure compliance, safety and precision in delivering advanced aerial and LiDAR surveying solutions for diverse industries across Australia.

- **CASA Licensed:** RPA Operator Certificate (ReOC #6341)
- **Certified Pilots:** All pilots hold CASA Remote Pilot Licenses (RePL) and Aeronautical Radio Operator Certificates (AROC).

COMPASS ASSURANCE SERVICES • ISO 9001 •
ISO 9001 QUALITY

COMPASS ASSURANCE SERVICES • ISO 45001 •
ISO 45001 SAFETY

## CONTACT US


1/14 Brewer Road, Canning Vale, WA 6155

0459 233 243

admin@culhig.net.au

ABN 39 496 767 881


Scan to visit our website