

Capability Statement 2026



admin@trilogyco.com.au

Adelaide, South Australia



Welcome

Who is Trilogy Consulting

Specialists in transforming challenges into solutions. We achieve this by carefully addressing environmental, social, and economic factors to enable our clients to achieve positive project and community outcomes. We are proudly Australian owned and operated.

Collaborative & Client-Centric

Trilogy Consulting delivers results through collaboration, integrity, and personalised service. As a boutique firm, we offer agility and leverage our industry network to provide expert solutions with the highest professional standards.

Practical, Sustainable, & Tailored

We deliver practical, sustainable, and tailored aerial solutions through strong partnerships and focused effort. Our thorough due diligence ensures regulatory compliance, providing clients with the insights needed to confidently manage complex projects.

Our Core Services

- Volume Estimation
- Asset Inspection
- Thermal Imaging (Infrared imaging)
- Vegetation Health scans (Multispectral Imaging)
- Roof / Gutter inspections
- Tree Canopy Inspections
- Native Animal Observation



Services Overview

Volume Estimation

Accurate knowledge of material volumes can be crucial to workflow and logistics. We use RTK technology to ensure cm-accurate measurements and integrate these measurements with 3D modelling software.

These models can be used to compare changes in material volumes over time or accurately calculate the volume of irregular shapes.

Most recently, Trilogy Consulting have utilised this technology to estimate remaining volumes in holding ponds for financial planning, and to provide detailed cut-to-fill for quantity surveying.

Thermal Imaging

As a qualified thermal imaging specialist, we are able to provide high quality thermal images in various settings. Applications include solar panel defect scans (for warranty or insurance claims), electrical transmission line fault identification, native animal surveys, domestic animal surveys, and search/rescue.

Vegetation Health Scans (multispectral scans)

Multispectral scans of vegetation can show when plants/crops are under stress several weeks before they show signs visible to the human eye, such as browning or wilting. If signs of stress are identified earlier, it is possible to take appropriate action to restore the health of the plants/crops. This type of scan works by using specialised sensors that collect wavelengths of light that aren't visible to the human eye. These are then represented in the visible spectrum to create images in the visible spectrum. These images are then interpreted to determine plant health.

In conjunction with agronomists, agriculturalists use this information to plan corrective actions. Heatmaps can be used to target specific areas of a crop, which reduces the amount of product used for treatment; significantly reducing the volume of pesticides, fungicides, fertilisers, etc. required to treat a crop. This saves time and money and reduces environmental impacts/run-off.

Roof and Gutter Inspections

Aerial technology allows easy inspections of roof infrastructure without the need to physically access the roof space. This is especially useful for multi-story structures where accessing rooftops has greater inherent risks. We can inspect the condition of rooftops in a matter of minutes.

After storm events, it is good practice to inspect your roof for blocked guttering or hail damage. Often damage can go unnoticed, leading to bigger issues over time. Requesting an inspection from your insurance company can affect your no-claims bonus; we can provide an assessment for a small fraction of that value. We find this service is beneficial for clients with multi-story buildings where roofs are naturally difficult to access.



Tree Canopy Inspections

Knowledge of tree canopy extents is essential for maintaining appropriate stand-off zones around infrastructure such as roads, powerlines, and roofs. Understanding changes in the canopy extent over time allows planning of maintenance, and can impact insurance, especially for properties under body corporate management.

For developers, many councils require documentation of vegetation extents to maintain their target canopy extent targets.

Animal Observations

Australian native animals are notoriously good at camouflaging with their environment. Using thermal cameras from an aerial viewpoint allows them to be located quickly and easily via their heat signatures. Integrated smart technologies will provide counts of heat-signatures, and geospatial data of where animals have been located is readily available.

This service is particularly useful for endangered species monitoring, habitat mapping, pest management, and pre-clearance surveys.

Using thermal scanning for animal observation results in non-invasive and accurate surveys of native or invasive species, increased efficiency as the surveys cover a lot of ground quickly, and ultimately informs management decision-making, leading to better outcomes.

This technology can also be utilised in the agriculture sector for managing and monitoring stock levels and pest management.



Recent Work

Sludge-dam volume vs depth analysis

The Issue

Client had no knowledge of the relationship between the depth and the volume of their asset.

Challenges

Calculating the volume of the dam at given/known depths, and creating a depth vs. volume chart for field use.

The Solution

1. Capture an accurate measurement of the sludge dam and create a 3D render of the dam surface (Digital Elevation Model)
2. Use 3D modelling software to calculate volumes of the dam at specified depths, using the 3D render created in step 1.
3. Create a chart of depth vs. volume using the 3D model. This chart can be used for management of the asset as it provides crucial real-time volume and remaining capacity information.

Stockpile Volume Assessment

The Issue

Our client was required to manage an area of historic material stockpiling, and needed an accurate measurement of material for budgeting, scheduling, and logistics.

Challenges

This site was particularly complex, with many undulations, bulges, and hollows. Adding to the complexity, much of the material was mixed with physical and chemical contamination, including large lumps of jagged steel, hydrocarbon contamination, and potential asbestos material. Unbeknownst to the client, there were also squatters camping in a tent hidden among the undulations of the stockpiles.

The Solution

Using a Matrice 4E drone to capture data, and specialised 3D modelling software for processing/calculations, we delivered a detailed volume analysis and a 3D .dwg file mapping the exact location and extent of the material to the client.

Meet Our Team

ALEX SAVAGLIA – Director



Alex, with a decade of experience in mining, construction, and land assessment, began using drones during COVID-19 to provide interstate clients with crucial progress updates. This innovative solution enabled critical projects to proceed despite travel restrictions, fostering client confidence and leading to further business development. Witnessing the value drones offered, Alex is driven to provide innovative and insightful drone-based solutions to clients.

Qualifications: Remote Pilot Licence

JOHN EDWARDS – Associate Director



John possesses extensive experience in the agricultural and mining sectors. His expertise lies in capturing, presenting, and delivering geospatial information across diverse platforms to a wide array of stakeholders. These roles were instrumental in developing his 3D modelling skills, enabling him to integrate datasets from various designers and sources into a unified, user-friendly platform. This, in turn, empowers clients to make accelerated decisions.

Qualifications: Chief Remote Pilot Remote Pilot Licence Class 1 Thermographer

PHILLIP WILLSON – Senior Remote Pilot



Phil has extensive experience managing projects, especially relating to Contaminated Land Management and Road Infrastructure. He has been at the forefront in the use of drones to capture pivotal data across these industries and is passionate about using data captured by RPAs to improve decision making and workflows.

Qualifications: Remote Pilot Licence