



## CAPABILITY STATEMENT

Unmanned aerial, terrestrial & submersible robotics and sensor technology that save time, money, and the environment.

Fulcrum Robotics, part of the SGS group, is a leader in Industry 4.0, driving a new way of managing risk by leveraging remote sensing, unmanned systems, automation, AI, and ML.

We are a premier provider of asset integrity and environmental services across Australia, New Zealand, and the broader APAC region.

We use advanced robotics, unmanned systems and remote sensors to help industries manage risk and compliance, inspect, monitor, and manage critical environments and infrastructure safely and efficiently.

- Enhance operational resilience to better withstand and recover from unexpected disruptions.
- Maximise return on investment by improving efficiency and ensuring optimal use of resources and capital, preserving infrastructure value for the long term.
- Improve safety by achieving a zero-harm vision by removing personnel from high-risk and confined-space environments.

### DELIVERING BUSINESS OUTCOME

We combine robotics, AI, automation, and precision data to solve complex challenges across the utilities, infrastructure, and environmental sectors. Our focus is on translating technology into measurable business value:

- Mitigate failures by identifying potential issues early to prevent costly breakdowns, service interruptions, and non-compliance penalties.
- Optimise maintenance through data-driven scheduling that reduces risk, downtime, and cost.
- Shift from reactive to proactive management, preserving infrastructure value, and ensuring consistent performance.

### NATIONWIDE REACH ACROSS AUSTRALIA

Established in 2014, we operate nationally with 50+ offices across Australia. We are committed to ensuring essential assets perform reliably, safely, and efficiently throughout their entire lifecycle.



# Capabilities

We offer a comprehensive suite of inspection and monitoring services, leveraging robotic platforms to access the unreachable and deliver high-resolution data.

## ROBOTICS PLATFORMS

We deploy a scalable fleet of globally leading robotic systems and sensors across diverse environments, including but not limited to:



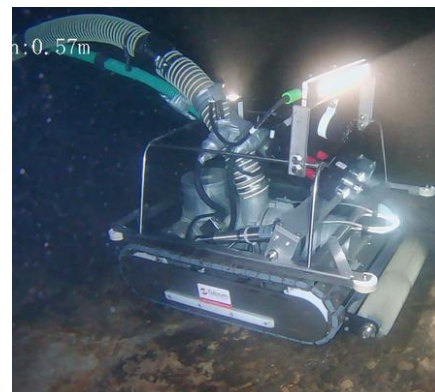
### AERIAL SYSTEMS (UAVS)

Performing detailed aerial imaging, thermal inspections, and photogrammetry surveys.



### TERRESTRIAL SYSTEMS (UGVS/CRAWLERS)

Utilised for confined-space access in tanks, ducts, and pipelines with zero operational impact.



### SUBSEA SYSTEMS (ROVS)

Conducting inspections of submerged pipelines, potable water reservoirs, and marine infrastructure.

## ADVANCED DATA SERVICES

Our systems collect and process data to support risk assessment, asset management, and long-term planning.

| TECHNOLOGY              | BENEFIT                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| High-Precision Sensors  | Optical, multispectral, infra-red thermal, and acoustic sonar sensors for accurate measurement, assessment, and risk diagnostics. |
| LiDAR & 3D Mapping      | Produces high-resolution point clouds for precise spatial data and asset integrity.                                               |
| Digital Twin Modelling  | Creation of real-time, multi sensor output interactive 3D models to support long-term planning and predictive analysis.           |
| Predictive AI Analytics | Machine learning enhances data insights, enabling smarter maintenance scheduling and risk forecasting.                            |
| GIS/AI/ML Integration   | Integrates data into existing GIS, AI, and ML systems for seamless data management, insights, and risk analysis reporting.        |
| Custom Technologies     | Bespoke robotics technologies designed to solve big challenges.                                                                   |

## Sector Expertise

We deliver inspection and monitoring solutions across both environmental and industrial sectors, leveraging unmanned systems to access challenging environments safely and efficiently, often where traditional methods fall short.

### INDUSTRIAL ASSET INTEGRITY

- Infrastructure Assessment: Detailed inspection and condition assessment for all utilities, infrastructure owners, councils, and resources sectors.
- Confined Space Inspections: UAV/ROV deployment in tanks, stacks, pipelines, and reservoirs without operational disruption.
- Submerged & Pipeline Inspections: Non-destructive testing and visual inspection of underwater pipelines, cables, submerged systems, and associated assets.

### ENVIRONMENTAL SERVICES

- Marine & Aquaculture Surveys: Detailed monitoring of seafloor, habitat, and facility infrastructure.
- Forestry & Habitat Conservation: High-resolution environmental mapping, vegetation health monitoring, and non-invasive wildlife tracking.
- River & Flood Assessments: LiDAR mapping and photogrammetry for floodplain and riparian zone analysis.



## Safety & Sustainability Commitment

Our advanced robotic fleet and skilled team deliver end-to-end solutions with speed and precision.

We maintain strict compliance with safety and environmental legislation, including the Tasmanian Work Health & Safety Act 2012, and operate under a zero-harm vision that embeds sustainability into every project.

Best-practice standards guide our operations, ensuring quality, reliability, and safety while supporting long-term environmental and social responsibility.



## Why Choose Fulcrum Robotics?

We're more than a service provider, we're a trusted partner built on global expertise, technical excellence, and an unwavering commitment to safety. As part of SGS, the world's leading testing, inspection, and certification company, we combine international standards with dedicated local execution across Australia.

We are one of the country's largest self-performing robotic inspection providers, delivering end-to-end solutions with speed, precision, and reliability.

Our team includes scientists, spatial survey specialists, and experienced operators with deep expertise in robotics, geospatial analysis, and asset integrity. We operate one of Australia's most advanced fleets of UAVs, UGVs, and ROVs, all managed by CASA-accredited pilots with extensive field experience in high-risk environments.

### CONTACT US

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