



# CAPABILITY STATEMENT

## REMOTE DIGITAL VISUAL INSPECTION (RDVI)

### THE PURPOSE

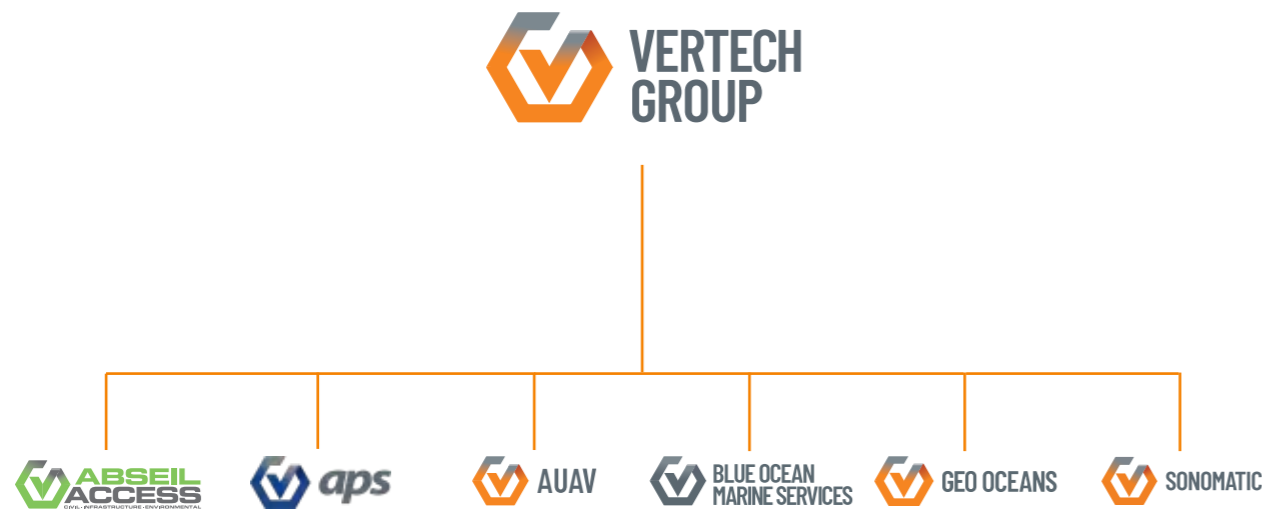
This document is composed to assist our clients and the supply chain in understanding our group operating structure and a high-level understanding of the benefits, services, key people, and equipment associated with our world-leading Remote Digital Visual Inspection and Robotic Services.



## COMBINED SERVICES

Vertech Australia, NZ, and USA deliver a comprehensive array of Inspection, Non-Destructive Testing (NDT) and Maintenance packages all underpinned by Innovative Specialist Access Systems.

Our group is made up of complementary and specialist service providers assisting us to innovate in project delivery across multiple market verticals. They include; **Geo Oceans** an industry leader in Mini-ROV IRM and Subsea Inspection services, **Sonomatic** who are recognised as a global leader in Specialised NDT, **AUAV** a specialist Drone and Data Analytics company, **APS Industrial Services** who deliver Construction, Access and Engineering Services, **Blue Ocean Marine Services** experts in Offshore Surveys and AUVs as well as **Abseil Access** in New Zealand who are a Specialist Infrastructure, Engineering and Geotechnical providers.



## VERTECH RDVI SOLUTIONS

The Vertech RDVI Division, in collaboration with Geo Oceans, Sonomatic and AUAV, is the amalgamation of cutting-edge technology, multi-skilled site-based crews and a technically experienced management team. This strong foundation has allowed us to become the pathfinders of this emerging industry, setting the standard for others who follow.

Our multi-company staff expect excellence from themselves and each other, which has led to the RDVI team being known throughout the industry as the service provider of choice. Across the whole of Vertech Group, we pride ourselves on executing and delivering high-profile, technically challenging scopes due to our commitment to innovation, the best people and our absolute client focus.

### OUR ADVANCED RDVI

RDVI is the use and application of Remote Digital Visual Inspection systems to internally inspect equipment without the need for Confined Space Entry (CSE).

of data and a more comprehensive service. The results can be used for statutory equipment sign-off in the field and post-inspection analysis, risk reviews, and process operational requirements.

RDVI methods are ideal for In-Service Inspections, conditional assessments, process efficiency assessments, and removing or retrieving debris and foreign objects in various systems. Vertech's RDVI experience and understanding of the industry have led us to create advanced RDVI specialist packages. These complete, integrated, and pre-planned packages deliver a higher level

What makes these Advanced-RDVI specialist packages unique is the 60+ years of experience and expertise behind them. Each package was created by experts who intimately understand the tasks required, solving potential issues before they arise. This ensures your inspections are completed with the highest level of integrity and are repeatable for future comparative purposes.



# RDVI SERVICES

Remote Digital Visual Inspection or RDVI is the application of remote digital systems such as cameras, robots or crawlers to inspect internally and assess challenging access areas without the need for intrusive inspections and the associated Confined Space Entry. RDVI methodologies work for condition assessment, process efficiency assessments and Foreign Object Search And Retrieval (FOSAR).

## RDVI SPECIALISED ENGINEERING SERVICES

### FRONT END ENGINEERING DESIGN (FEED)

Our RDVI team collaborates with our clients during the FEED and planning phase of a project to define critical asset areas where RDVI can be applied, what will be required to access these areas, and the likely degradation mechanism.

RDVI integration in the Pre-FEED and FEED stages of the project maximises RDVI capabilities and results in the most significant savings, exceptional inspection coverage, a reduction in turnaround time frames and fewer resource requirements. This process also dramatically reduces the possibility of substantial changes being required during the execution phase.

### OPERATIONAL PLANNING & REVIEW

Vertech's Facility Review & Planning service provides clients with focused campaign planning for the internal inspection requirements of pressure equipment. Our processes ensure that the correct inspection equipment, support tooling and techniques are applied promptly and efficiently.

We have taken full advantage of our team's extensive campaign and project experience to create a specialised array of procedures and methods to help reduce execution windows, bringing assets back online faster.

## RDVI SPECIALISED SITE EXECUTION SERVICES

### ONSITE EXECUTION SERVICES

Vertech's Campaign Execution Team provides complete end-to-end assistance with campaigns, projects and turnarounds. Our RDVI technicians have a wide variety of inspection experience. They are trained explicitly across the full suite of RDVI technologies, allowing them to assess each situation and apply the correct tooling on a case-by-case basis.

What sets Vertech's RDVI Team apart is that our experts understand the needs of various stakeholder groups, from onsite personnel to upper management. Our team works with each group every step of the way to help them understand and interpret the relevant data, results, and information.

**VERTECH OWNS, OPERATES AND MAINTAINS THEIR OWN CORE RDVI EQUIPMENT**

TRUST A TEAM WHO KNOW THEIR EQUIPMENT



## RDVI SPECIALISED ENGINEERING SERVICES

INCREASED SAFETY BY REDUCING PERSONNEL EXPOSURE

REDUCTION OF SHUTDOWN RESOURCE REQUIREMENTS

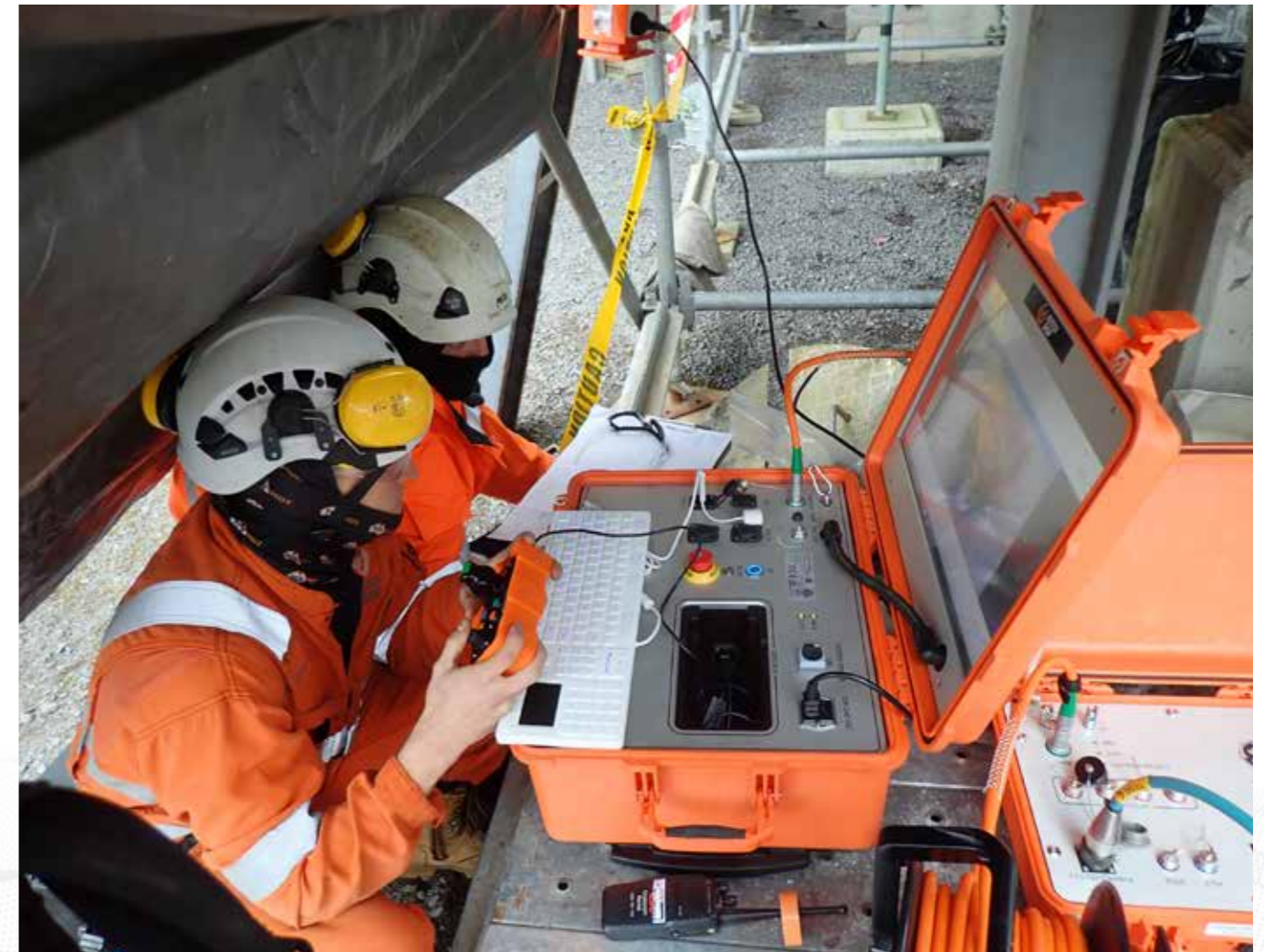
IMPROVED INSPECTION REPEATABILITY

REDUCTION IN OVERALL RISK PROFILES

INCREASED INSPECTION COVERAGE

REDUCTION IN POTENTIAL LEAK POINTS

# ENSURING SAFETY EXCELLENCE ACROSS ALL PROJECTS

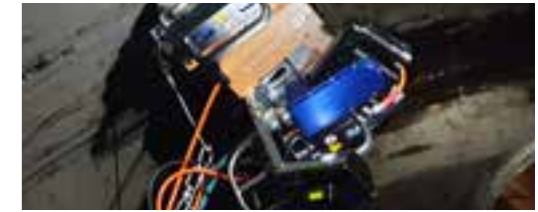


# RDVI SPECIALIST PACKAGES

Vertech offers the latest generation RDVI systems and the very best people in Asia Pacific. The equipment and supporting tooling we use have been custom-designed & fabricated to suit specific requirements within each sector to ensure a best-in-class outcome and safety excellence on all projects we undertake.



- 01 FOREIGN OBJECT SEARCH AND RETRIEVAL (FOSAR)**  
 Vertech employs a suite of off-the-shelf and custom-built tooling systems to remove items of foreign debris found during an inspection without costly CSE and to ensure the ongoing integrity of the client's plant and process.
- 02 RDVI IN-FIELD INSPECTION**  
 Vertech's In-Field Inspection execution team works alongside statutory and class societies to assess and record the condition of an asset without the need for CSE. Our technicians have an extensive track record in this area and can draw on their experience to complete inspections efficiently, even when limited inspection data is available.
- 03 BASELINE, COMPLETIONS, CLOSE UP & QA/QC**  
 Our QA/QC RDVI package builds upon the best practice principles of conventional QA/QC inspections, using RDVI technology to identify items of pressure equipment that have been constructed out of specification, with any damage or anomalies.
- 04 PROCESS EFFICIENCY**  
 Vertech engineers will work with our clients to evaluate critical areas of a plant's processes and identify potential issues and points of failure. Our team has the knowledge to identify the key indicators when critical regions of the plant process are upset.
- 05 CONDITIONAL MONITORING**  
 The RDVI Conditional Monitoring package assists our clients in monitoring specific degradation issues. Using specialised tooling and procedures that are developed in-house, we can ensure that the target areas are assessed in the same way each time, in the most efficient manner possible. Our analysis experts can then collate, compare and evaluate these inspection results to ensure reproducibility.
- 06 HYDROCARBON ENRICHED ATMOSPHERE INSPECTIONS**  
 Vertech has developed dedicated and specialised procedures, equipment and tooling to inspect pressure equipment and piping systems. By using RDVI, these hydrocarbon-enriched atmospheres do not have to be purged, saving our clients time and money.



# OUR TEAM

You need the right people with the proper training to get results. Vertech is proud to have the world's most experienced RDVI technicians as part of their team, ensuring that you get an accurate outcome the first time, every time.

Our team of specialists have a combined 60+ years of in-field execution experience and are equipped with an extensive range of proprietary equipment. They can offer an integrated execution and inspection approach that meets the requirements of your engineers, planners and statutory inspectors, helping you get results even when your contracted day-to-day resources are stretched.

Our extensive recruiting process requires each applicant to display skills across a wide range of areas in the initial stage before progressing. Our RDVI-specific training program fully prepares our team for the field by educating them in six areas: systematic inspection procedures, degradation identification, tooling identification competency, tooling application competency, process optimisation training, and safety training.



## SYSTEM INSPECTION PROCEDURES

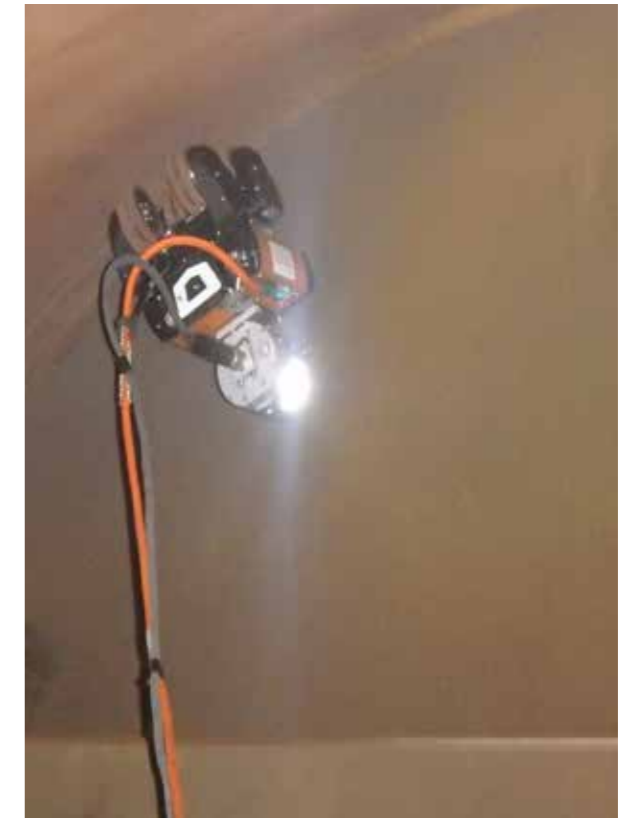
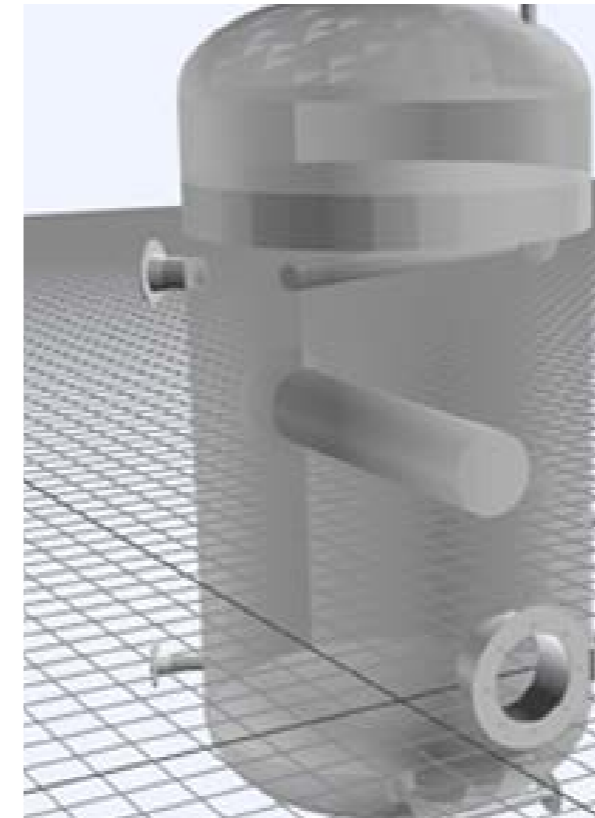
RDVI technicians are trained in systematic inspection procedures to enable higher levels of coverage, record, secure and prepare data in a logical format for communication, and correctly perform the post-inspection review processes.

## DEGRADATION IDENTIFICATION

Our team has been trained in degradation identification and detection utilising 2D imagery. This is important as technicians must know what they are looking at to capture all relevant data.

## TOOLING IDENTIFICATION COMPETENCY

Vertech technicians are trained across a range of digital camera systems, so they know what camera is required and why, how to set it up correctly and what specific lenses need to be applied to get the best results.



With our team's vast experience, we bring more to every inspection. Drawing upon the years of global expertise on degradation and operational issues allows us to help you further reduce risk and increase your confidence in operating the plant reliably and safely.

# TO GET THE RIGHT RESULTS, YOU NEED THE RIGHT PEOPLE.

## TOOLING APPLICATION COMPETENCY

Our team is trained in using and applying specialist support tooling that we design and build to ensure cameras are placed in the correct focal ranges, giving the most transparent view of possible degradation.

## PROCESS OPTIMISATION TRAINING

Vertech RDVI technicians are trained in process and operational aspects to ensure they can detect and highlight indications of process reliability, helping your functional team run your facility at the highest efficiency.

## SAFETY TRAINING

Our team has been trained to safely use, operate, and get equipment into high-level work environments without causing sim-ops conflicts, incidents, or accidents.

# UNMANNED AERIAL VEHICLE (UAV) REMOTE VISUAL INSPECTION (RVI)

Vertech group has led the charge and invested heavily in reducing and eventually removing manned inspections through advanced robotics such as Unmanned Aerial Vehicles (UAVs), Remote Digital Video Inspection (RDVI), robotic crawlers, and mini-ROVs.

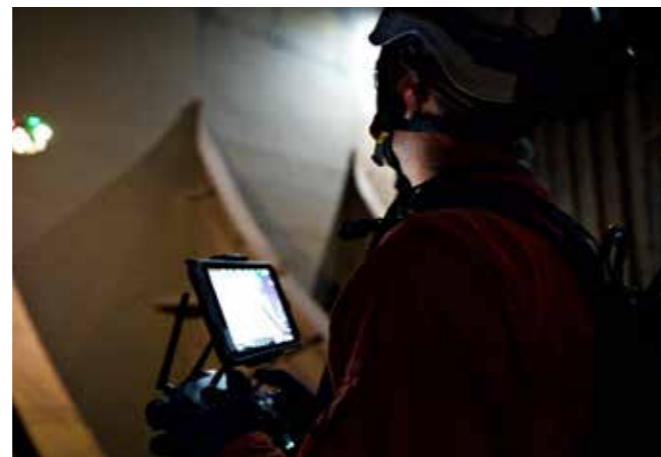
Vertech is a Civil Aviation Safety Authority (CASA), holds class accreditation with the International Association of Classification Societies (IACS) and is a recognised member of the American Bureau of Shipping (ABS) for "Remote Inspection Techniques: UAV Inspection".

Combined with our hull tank surveyors or our multi-disciplined AICIP or API inspectors, our pilots can complete safe and cost-effective inspections of structures, process piping and pressure vessels without needing higher-risk alternatives such as rope access or scaffolding. Through our group Company AUAV, we can offer powerful digital twins of each asset inspected through the INSITE™ UAV & Drone 3D Spatial Inspection data platform.



## OUR UAV RVI SERVICES INCLUDE:

- ✔ Marine Class Inspection
- ✔ Structural CVI or GVI
- ✔ Light Detection and Ranging Surveys (LIDAR)
- ✔ Process Piping Statutory Inspection
- ✔ Pressure Vessel Inspection
- ✔ Flare Structure & Flare Tip Inspection
- ✔ AUAV 3D Digital Twin Modelling (InSite™)
- ✔ Marine In-Water Drone Surveys
- ✔ Aerial Survey & Mapping



# CASE STUDIES

To understand more about our full capability, services, and specialist packages and how these can drive safety, quality and cost efficiencies for your asset or challenges, we've made our case studies accessible via our website.

## BEACH ENERGY TURNAROUND



Vertech proudly supported Beach Energy Australia's recent ventures into using remote digital visual inspection (RDVI) services. The team delivered multiple scopes of work within the original budget, safely, and with high-quality inspection data.

## INPEX ICHTHYS TURNAROUND



Over two years, Vertech reviewed every item of equipment scheduled for internal inspection of pressure equipment to determine suitability and applicable inspection tooling. They developed an execution strategy for remote visual inspection, provided all RDVI teams for three facilities, and worked with other inspection service personnel to achieve INPEX inspection goals.

## SANTOS GLNG SHUTDOWN



The Santos shutdown involved a review of pressure systems to determine suitable inspection tooling. Comprehensive execution plans were developed for each asset, and specialised equipment was mobilised with highly skilled crews to complete all inspection requirements safely, on time, and to a high standard.

## BAROSSA & SCARBOROUGH FEED REVIEWS



Vertech conducted an RDVI review of Barossa and Scarborough Facilities during their design phase. Pressure equipment was examined, resulting in recommendations for dedicated RDVI nozzles. Vertech and Sonomatic collaborated to compile a service package for Greenfield facilities to assist in engineering and designing requirements for inspection without confined space entry.



**WATER BALLAST AND CARGO OIL TANK INSPECTIONS**

Utilising advanced ROV inspection technologies, GVI, CVI, UTM and other NDT methods, we conduct tank inspections to meet the specific Class requirements of each asset.

Our tank inspections are performed without emptying the tank of fluid, thereby reducing facility downtime while avoiding costly and dangerous Confined Space Entry (CSE) procedures.

**HULL & MOORING UWILD / IN-WATER SURVEYS**

We deploy our ROVs directly from the facility, eliminating the need for costly carbon-emitting support vessels.

Periodic or special surveys are tailored to the individual assets, considering the client's age and condition, class requirements and engineering needs.

Cleaning General and Close Visual Inspections are performed and supported with cleaning, CP, UTMs, penetration isolations, sea chest blanking, angle measurements, chain gauging and other NDT inspections as required.

Remote live data feeds can be supplied to support remote inspection and class attendance.

**JACKETS, RISERS, SUBSEA FIELD INSPECTION**

We have extensive experience performing ROV inspections of jackets, caissons, risers, mooring systems and subsea infrastructure, including pipelines, spools, wellheads and anode skids. We can deploy directly from platforms or vessels of opportunity.

Inspections and ROV interventions include anything from GVI/CVI, freespan, CP, UTM, FMD, marine growth assessment and spot cleaning to bulk cleaning, dredging, advanced NDT inspections (e.g. corrosion mapping, crack detection) and subsea repairs.



**SUBSEA ADVANCED NDT INSPECTION**

Working in collaboration with Sonomatic, Geo Oceans has extensive experience in the development and ROV deployment of miniaturised subsea advanced NDT inspection tools to create high-accuracy corrosion maps of sections of pipelines, spools, hulls, infrastructure or to survey critical welds.

**METROLOGY AND PHOTOGRAMMETRY**

Our Mini-ROV inspection systems include imaging technologies for accurate size and area measurements. A camera array (stereo or mono) acquires high-definition video and images that can be processed for scaled measurements and 3D modelling.

The 3D models can calculate size and area measurements for localised corrosion mapping purposes or quantitative assessment of the remaining anode percentages. These 3D models can also be compared against the 'as built' (baseline) model of the anodes to create a 'deviation' model that displays the level of material loss.

**MARINE HABITAT SURVEYS USING GO VISIONS™**

Geo Oceans has an award-winning benthic habitat mapping and monitoring capability utilising the GO Visions™ software to support regulatory environmental approvals for new construction projects (wharves, jetties, pipelines, offshore wind farms) or for decommissioning projects (pipelines, subsea cables, wells, jackets, nearshore infrastructure).



**SUBSEA INSPECTION**

Sonomatic Subsea is a leading provider of advanced subsea inspection technologies, including ROV and diver-deployed robotic systems. With 30+ years of experience, we design, develop, and build our inspection systems and scanners to meet specific client requirements.

Our unique and innovative inspection solutions enable clients to manage the integrity of aging assets while making informed and cost-effective decisions crucial to plant safety and longevity. We have a proven track record of safely delivering subsea inspection services for over three decades.

**PIPELINE INSPECTION**

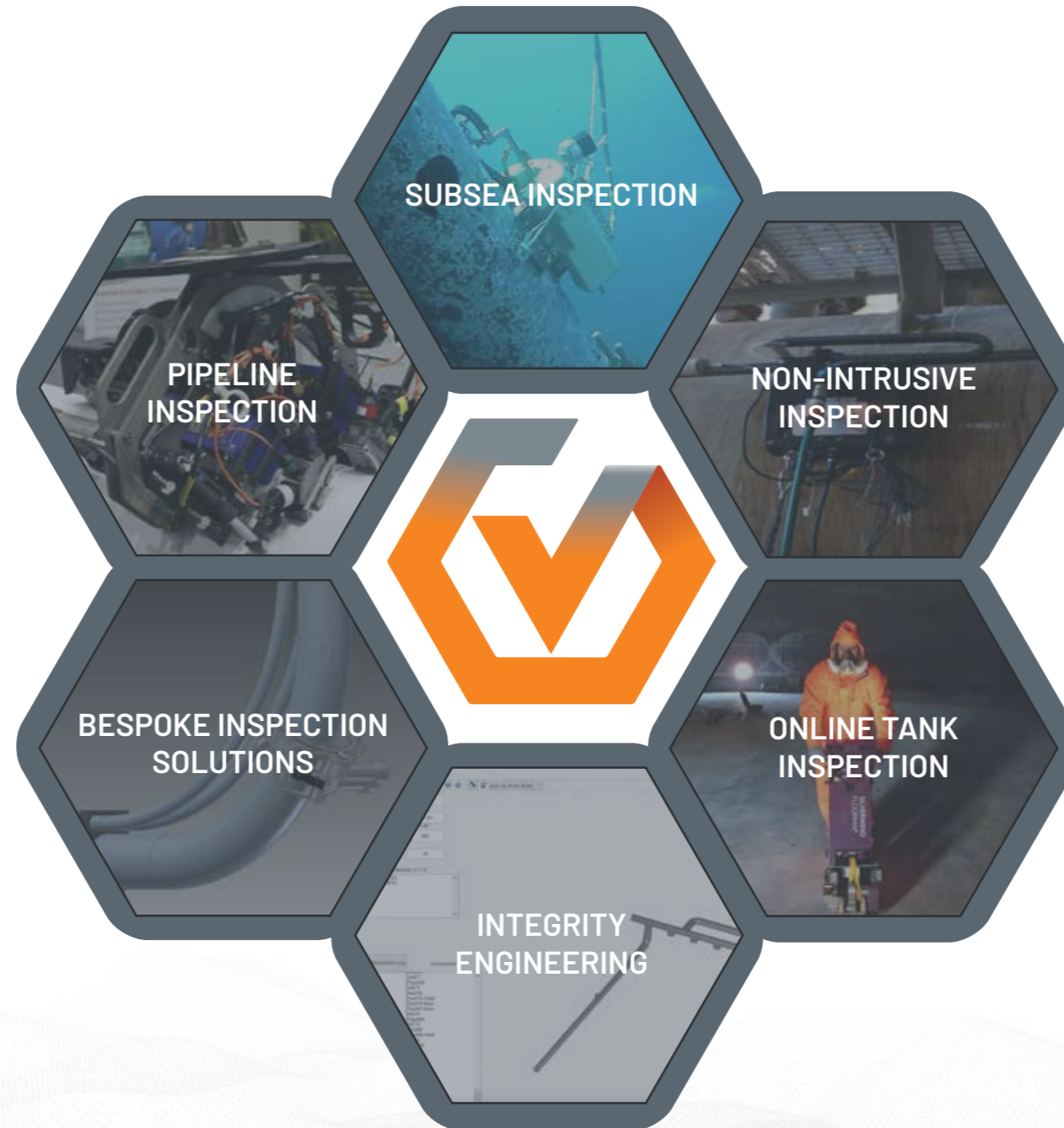
Sonomatic specialises in pipeline inspections to deliver high-quality data. We offer topside and subsea services to ensure pipeline integrity. We provide innovative statistical analysis methods to help operators make informed decisions regarding pipeline inspection and integrity assessments.

Sonomatic’s advanced subsea pipeline inspection services utilise cutting-edge technology to effectively detect potential issues, collect precise data, and assess pipeline conditions to ensure the integrity and reliability of underwater energy infrastructure. This reduces downtime, maintenance costs, and enhances safety and environmental protection.

**BESPOKE INSPECTION SOLUTIONS**

Sonomatic is a relationship-driven company that constantly provides its clients with the best possible service using the most specialised technology. We always offer a bespoke solution to individual projects by selecting the most appropriate products and techniques from our wide range of equipment and software.

This can range from the total planning-to-reporting package offered by our Integrity Support Services division to one-off inspection reports by specialist engineers using the most sophisticated and advanced flaw detection methodologies.



**NON-INTRUSIVE INSPECTION**

Sonomatic is a pioneer in Non-Intrusive Inspection (NII) with global implementation. Our experienced team combines advanced data science and cutting-edge engineering capabilities to offer complete NII campaign services worldwide. We are committed to providing quality solutions that meet the highest safety and efficiency standards while ensuring an auditable trail for each department. NII is becoming an alternative approach to traditional Internal Visual Inspection (IVI) for pressure vessels, with some organizations aiming to eliminate vessel entry by 2026.

**TANK CLEANING & INSPECTION**

Storage tanks typically contain large volumes of valuable but potentially hazardous fluids. As such, inspection is a critical element of the integrity management of storage tanks. The objective of the inspection is to provide information on the tank’s condition. This information should be used to support effective integrity management decisions. Historically, storage tank inspection has relied on entry with the tank out of service. Opening storage tanks for internal inspection is a lengthy and challenging process.

The tank will be unavailable during the internal inspection and must be drained and cleaned before entry is possible. There are also safety hazards associated with personnel entry for inspection. Remote Internal Inspection (RII) methods offer an attractive alternative as they can be conducted whilst the tank is in-service and do not require vessel entry. Sonomatic’s technicians are experienced in using various inspection techniques on numerous assets in many environments.

**INTEGRITY ENGINEERING**

Sonomatic’s Integrity Services Department provides engineering and operational support to clients, combining experience in the field with specialised engineering, planning, execution, data analytics, statistical methods, and custom software development. We specialise in advanced, non-intrusive inspections and provide objective analysis through effective planning. Sonomatic’s practical statistical methods for inspection planning through simulation position us to support the integrity management sector’s transition to increased data-driven decision-making.





**AERIAL SURVEY & MAPPING**

AUAV offers top-tier aerial surveying and mapping services using state-of-the-art drones and skilled surveyors. We aim to provide the highest quality results with centimetre-level accuracy, enabling our clients to make agile decisions. Our maps and survey data have a 1-3cm resolution per pixel, and our 3D terrain models are accurate to approximately 50mm horizontally and 50-80mm vertically.

**3D DIGITAL TWINS (InSite)**

AUAV's InSite software is a cloud-based drone data presentation and asset inspection platform. Its features include 3D site capture, integration with other systems, customisable options, and versatile data display capabilities. The software is geared towards clear data capture, essential for in-depth analysis and informed decision-making in drone operations and data processing services.

**DETAILED CLOSE VISUAL INSPECTION**

Drones are crucial for detailed, safe, and efficient visual inspections in infrastructure maintenance, construction, and energy. With high-resolution cameras and advanced stabilisation technologies, drones can inspect structures like bridges, wind turbines, and high-rise buildings, reducing the need for human inspectors in dangerous or hard-to-reach areas. The agility of drones captures a wide range of angles and perspectives, providing comprehensive visual data that speeds up the inspection process, increases accuracy, and improves maintenance decisions. Using drones exemplifies the integration of technology in modernising and optimising industrial and maintenance practices, making them safer, more efficient, and cost-effective.



**LIDAR**

Drone-based LiDAR is an aerial surveying technique for generating point cloud data for topographical surveys. AUAV has extensive experience in collecting, processing and delivering LiDAR data for mining, engineering power sector and environmental clients. With hundreds of points per square meter, the data is beneficial for surveying areas with vegetation, analysing power line infrastructure and landslip analysis.

**THERMAL**

Aerial thermography provides an efficient method for capturing temperature anomaly data over large areas. Typical uses include the identification of underground fires, solar farm defects, gas leaks and potential water ingress behind concrete structures. The most widespread use of drone-based thermal capture is on grid-scale solar assets, where data on up to 700,000 panels can be captured in a week.

**AERIAL PHOTOGRAMMETRY**

Photogrammetry is the term used for creating very accurate 3D data from photographs. This is a speciality of AUAV, where our team routinely captures and processes models with 100,000 high-resolution images to create digital twins of assets. These digital twins have resolutions between 1cm and 1mm, enabling the engineering inspection of assets, tendering for remediation or demolition, facilitating design works or various virtual reality applications. AUAV have developed a bespoke online platform, inSite,



**SITE INVESTIGATION**

We deliver comprehensive site investigation and appraisal services, including detailed surveys and advanced monitoring systems. We specialize in habitat mapping and use autonomous underwater vehicles (AUVs) equipped with the latest sensors and imaging technology to conduct thorough surveys, even in inaccessible marine environments. Our commitment to providing accurate, actionable data for marine projects sets us apart.

**SUBSEA POSITIONING**

We utilise advanced Ultra Short Baseline (USBL) systems to accurately control and manage AUV surveys. These systems determine the position of dynamic subsea targets by transmitting and receiving acoustic signals between a submerged transceiver and a target beacon. Our services extend beyond supporting our AUV activities and provide precise navigational and positional support for various other applications, including ROV inspection, sediment and water sampling, drop-camera surveys, towed instrumentation surveys, and search and recovery exercises.

**METOCEAN SURVEYS**

Blue Ocean Marine Services offers a comprehensive metocean service for offshore projects. Our specialised monitoring services cater to shallow and deep marine environments, evaluating directional waves, currents, water quality, and more. We provide water level monitoring, advanced weather forecasting, sediment sampling, and real-time monitoring systems, ensuring up-to-date data for immediate decision-making. Our services also include visual surveys and hydrographic surveys to map underwater topography. All our services are tailored to deliver detailed and reliable metocean data for our clients' offshore projects.



**REGULATORY COMPLIANCE**

Increased marine activity and environmental accountability have increased the demand for ocean monitoring programs. Ocean robotic platforms have proven highly effective in enhancing ocean survey techniques. Blue Ocean Marine Services has executed numerous data acquisition campaigns to ensure offshore compliance. Our services include PFW discharge monitoring, dredging and spoil disposal monitoring, PAM, UXO surveys, water and sediment testing, scour monitoring, real-time monitoring, and data harvesting.

**SUBSEA INSPECTION**

Blue Ocean Marine Service offers cost-effective and efficient subsea inspection surveys using Autonomous Underwater Vehicles (AUV) and Remotely Operated Vehicles (ROV). These portable technologies require only a small specialist team and can be mobilised quickly. Our successful pipeline inspections demonstrate that these vehicles can deliver exceptional survey results while reducing project costs, schedules, logistical efforts, and risks. Our subsea inspection services include pipeline inspection, infrastructure position surveys, cable route surveys, leak detection surveys, general visual inspections (GVI), and scour monitoring.

**EMERGENCY RESPONSE**

Blue Ocean Marine Services provides efficient emergency response services for environmental and infrastructural crises. Our expert technicians are trained for rapid deployment, while our AUV fleet enables quick mobilisation. Our services include oil spill response, infrastructure surveys, and pollution monitoring. We also provide scour monitoring and water and sediment testing for thorough environmental assessment. Our emergency response offers comprehensive solutions for safeguarding the environment and marine infrastructure.

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