

MARINE ROBOTICS SERVICES



PORT, INDUSTRY AND VESSELS



DRONEQ

ROBOTICS

ANY JOB, ANYWHERE, ANYTIME!

COMPREHENSIVE MARINE ROBOTICS SERVICES

DroneQ Robotics is an independent provider of Unmanned Robotics Technology to Ports, its Offshore Energy and Industry. By offering ROV Underwater Inspection & Unmanned Survey Services, Drone Industrial Inspection Services and Drone Cargo Delivery Services we help clients to achieve climate neutrality.

Marine Robotics Services is a worldwide marine service which deploys dedicated and trained professionals, the most advanced robotics, artificial intelligence and data science to provide high quality actionable data in accordance with client's requirements.

With more than 25 years of experience in the maritime sector and working in accordance with our comprehensive HSEE policy, we are able to provide high quality services and embed innovation seamlessly in our global services.

ANY JOB, ANYWHERE, ANYTIME



PORT & INDUSTRY

Thorough inspection and survey services of port and harbour infrastructure and industrial plants



VESSELS

Fast and safe worldwide inspections of water tanks, ballast tanks and ships exterior



RENEWABLE ENERGY

Support Asset Lifecycle Management with consultancy, survey and inspection services during design, build and decommission



OIL & GAS

Support of Offshore Oil & Gas installations, cables and pipelines with Survey, Inspection and Intervention services



AUTONOMOUS SURFACE VESSELS

For Inshore

DroneQ Robotics Autonomous Surface Vessels (ASV) provide high quality data collection in an utmost efficient way. Autonomous Surface Vessels are:

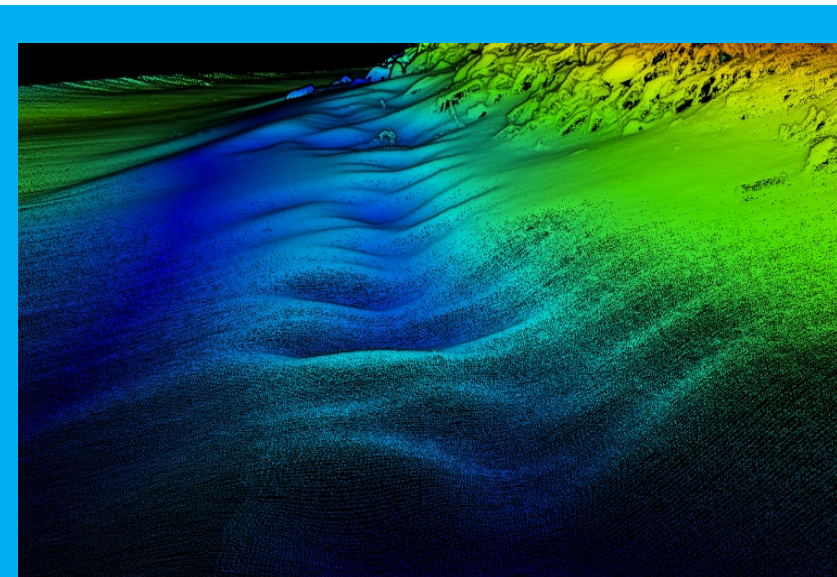
Sustainable:

- Fully electric
- Climate neutral
- Fully unmanned
- Cost effective

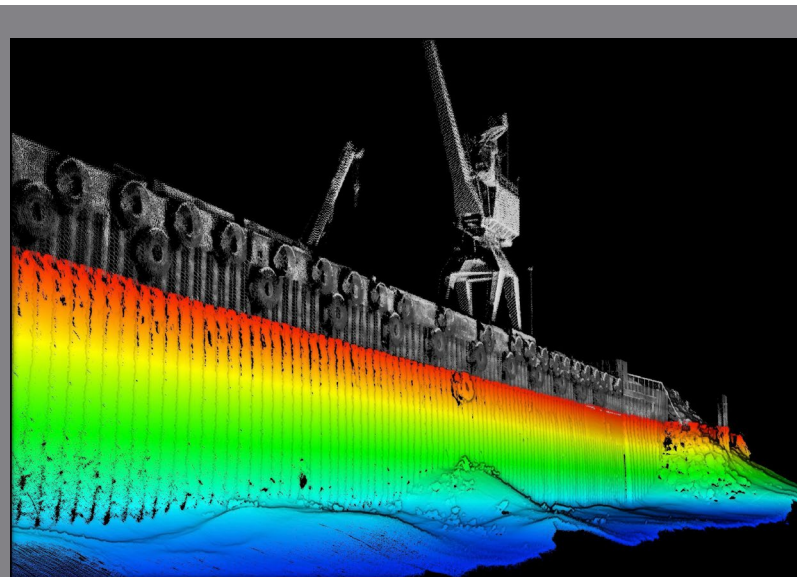
Safe:

- Fully autonomous
- 360° cameras, LIDAR, AIS and radar
- AI object recognition for Detect & Avoid
- Unsinkable material

HYDROGRAPHIC SURVEY



INSPECTION



MARINE ROBOTICS SERVICES



MARINE ROBOTICS SERVICES FOR INSHORE



MARINE ROBOTICS SERVICES FOR INSHORE: high-quality Services using Hi-Tech, slim and powerful Observation Class ROV's for inshore Inspection and Testing:

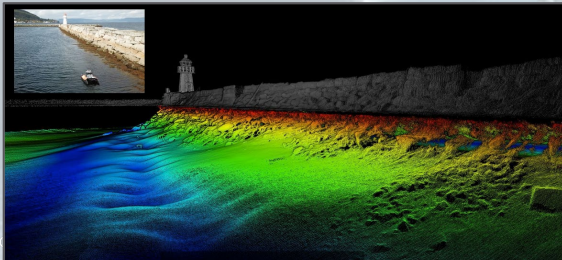
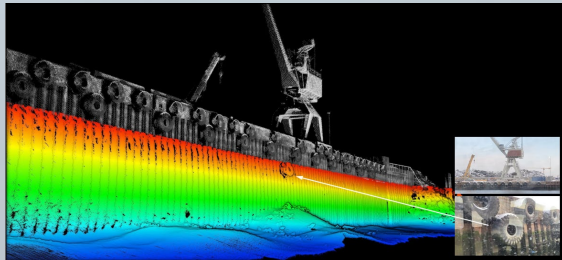
- **PORT INFRASTRUCTURE:** Integrity condition of vessels, quays, sheet piles, mooring posts, tunnels, bridges and dock pillars and other constructions, bathymetric mapping.
- **INDUSTRY:** Industrial plant inspections such as cooling water inlets, pipelines and valves, water tanks.
- **WATER MANAGEMENT:** Locks, dams and dikes, breakwaters, pumping stations, water purification installations and other water management installations.
- **NDT:** Cathodic Protection, ultrasonic metal wall thickness measurements, wood and cement integrity testing, environmental monitoring.

MARINE ROBOTICS SERVICES FOR PORT AND HARBOUR

ARTIFICIAL INTELLIGENCE & DATA SCIENCE PLATFORM (SUPPORTING PREDICTIVE MAINTENANCE)

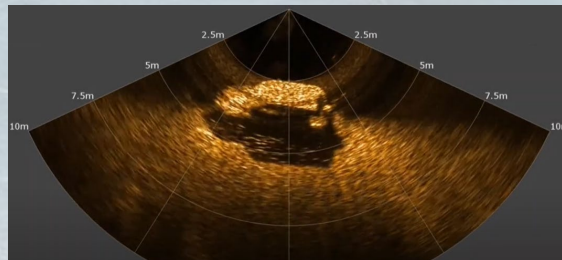
1 Autonomous Surface Vessel (ASV)

Full autonomous inspection using high resolution 3D/4D sonar for underwater inspection and survey, and LIDAR for inspection of surface constructions to provide context. ASV is equipped with 360° cameras, radar, AIS and lidar based AI supported detect & avoid system. ASV inspection is a fast and efficient method, covering large areas in a short period of time.



2 Fast Response Observation ROV (FROCROV)

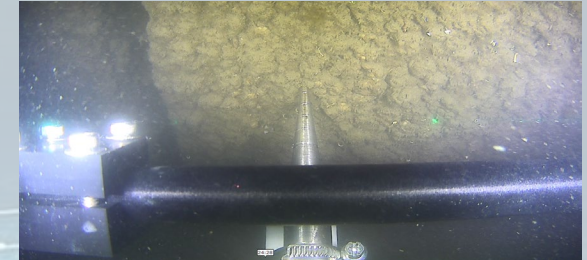
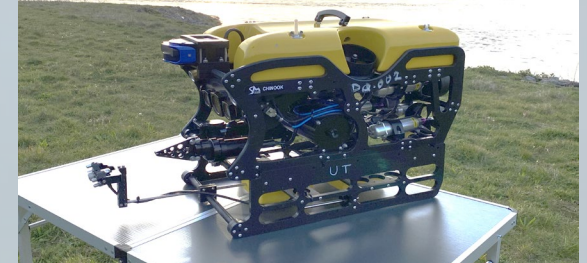
Powerful, slim ROV equipped with high resolution low-light cameras, ultra high definition sonar and DVL for position keeping in strong currents, USBL for precise underwater navigation and location logging. Used for fast response inspection and validation of anomalies detected during the ASV survey in an effective and efficient way. Object recognition by AI.



3 Testing by ROV

ROV equipped for Inspection and Non Destructive Testing (NDT) such as:

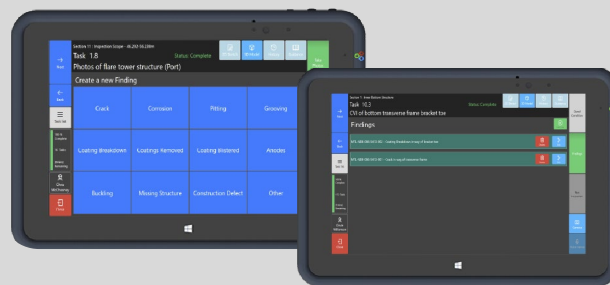
- Ultrasonic Metal Thickness measurements (UT)
- Cathodic Protection measurements anodes (CP)
- Integrity testing of underwater wood and cement.



MARINE ROBOTICS SERVICES



MARINE ROBOTICS SERVICES FOR INDUSTRY



MARINE ROBOTICS SERVICES FOR INDUSTRY: deployment of Hi-Tech, slim and powerful ROV's for fast response marine inspections in confined spaces of industrial plants. Transportable system which can be deployed anywhere in the world in a short lead time.

There is no need to empty tanks prior to inspection, thus avoiding interruption of the plant's operation.

DroneQ Robotics ROV Operations are conducted fully in accordance with HSEE policy and guidelines and international inspection standards and guidelines.

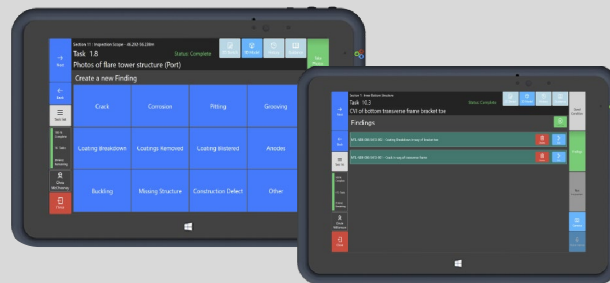
INSPECTION OBJECTS:

- **FEEDING WATER** tank inspection of industrial plants such as power plants, chemical plants, petrochemical plants
- **COOLING WATER** intakes and filters

MARINE ROBOTICS SERVICES



MARINE ROBOTICS SERVICES FOR VESSELS



MARINE ROBOTICS SERVICES FOR VESSELS: deployment of Hi-Tech, slim and powerful ROV's for fast response marine inspections in confined spaces on vessels. Transportable system which can be deployed anywhere in the world in a short lead time.

There is no need to empty tanks prior to inspection, thus avoiding interruption of the vessel's operation.

DroneQ Robotics ROV Operations are conducted fully in accordance with HSEE policy and guidelines and international inspection standards and guidelines.

INSPECTION OBJECTS:

- **BALLAST** tanks of vessels, FPSO's, et cetera
- **DRINKING WATER** tanks of vessels, FPSO's, et cetera
- **COOLING WATER** intakes and other exterior objects

Contact



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