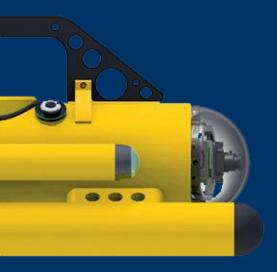


# PRESENTATION

**Subsea Tech** is an engineering company based in Marseille and specializing in design and manufacture of inspection and monitoring systems for marine and underwater environment.



#### **OUR ACTIVITIES**



Design and fabrication



Distribution



Services



Bespoke solutions

#### **KEY FIGURES**

2005

Creation

23

Staff (15 engineers)

2,3M

Turnover in € (2016) 20%

Turnover r growth w during the last 3 years

450

m² facilities with 30m pier

### ACTIVITY - DESIGN AND FABRICATION

#### Mini-ROVs



#### 150m depth rated: Guardian, Observer

- On batteries or main power
- 2 or 4 horizontal thrusters
- Front/Rear video cameras (pan &tilt)
- Ultraportable : < 7kg

#### 500m depth rated: Tortuga

- 4 azimuthal thrusters
- Current up to 5 knots
- Weight < 40kg
- Thrust/Weight ratio: 1,8
- Up to 1000m tether lenght

#### **USVs**



#### **Catarob** (inland waters)

- 1,8 m 50 kg
- Payload: 15 kg
- Autonomy 4h Range 1km

#### **CAT-Surveyor (harbours/littoral)**

- 3m 270 kg
- Payload: 80 kg
- Autonomy 12h Range 5km

#### SeaCAT (offshore)

- 5,8m 1200 kg
- Payload 200 kg
- Autonomy 72h Range 10km

#### **Underwater video systems**



- Highly compact
- Acetal or stainless steel casing
- Depth rating **100m** and **300m**

#### **UVS100RL/300RL (video only)**

- 1 or 2 video camera stream

#### **UVAS100RL** (video + diver comm.)

- 2 simultaneous stream

#### TUVS100RL

- Towed video camera (1 stream)





2G Robotics
3D laser scanners



Kongsberg Video cameras and Pan & Tilt



BluePrint Subsea Sonars and USBL



LYYN Video enhancement



Buckleys (UVRAL) Ltd.
CP probes



Seabed
Bathymetry echosounders



Cygnus Instruments
Thickness measurement
gauges



Teledyne BlueView
Multibeam imaging sonars



## ACTIVITY – BESPOKE SOLUTIONS

**R&D PROJECTS** 



TORTUGA: inspection class ROV (depth rating 500m)



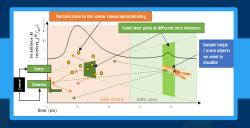
SEACAT : USV for offshore inspections with ROV and coastal survey



Docking Station

AUV docking system

(Defence project)



**UTOFIA** (Underwater Time of Flight Image Acquisition)

EU project

**SPECIAL PROJECTS** 



ROV AREVA: Pumping ROV for radioactive sediments recovery



POWER-C: High voltage underwater connector for marine renewables



TORPEDO: AUV for long range pipe inspection (over 5000m)



ROBIS: ROV for ship ballast tank inspections

# ACTIVITY - SERVICES

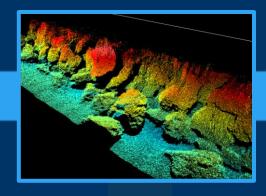
Dam and power plant inspection



Pipe and confined area inspection



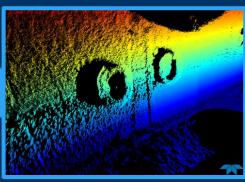
Dikes, piers and canals inspection



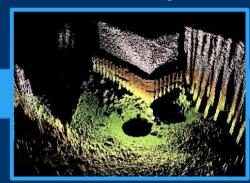
Civil infrastructures inspection (bridges, etc.)



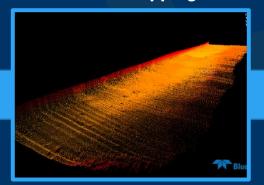
Harbour infrastructures inspection



Underwater infrastructure 3D modelling



Bathymetric survey and seabed mapping



Offshore infrastructures inspection (FPSO, etc.)



# RESSOURCES







#### **EQUIPMENT**

Mini-ROVs (Remotely Operated Vehicle)
USVs (Unmanned Surface Vehicle)
US gauges (thickness measurement)
CP probes (cathodic protection ptoential measurement)
Imaging sonars
Profiling sonars
3D Lasers

#### **ASSETS**

Video control truck Semi-rigid boat Power generator

#### **TEAM**

Operation Engineer
ROV pilots / technicians
Hydrographer
Designers

## APPLICATIONS – INFRASTRUCTURES

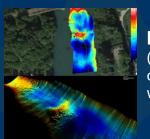




Underwater civil work (Dams, dikes, piers, bridge footers, canals)



Confined areas
(Tanks, pipes and sewers, flooded galleries, ship water ballasts)



Bathymetry survey (Reservoirs, harbour areas, channels, coastal areas, waterways)

### APPLICATIONS – OFFHSORE / MARINE ENERGY





Offshore infrastructures (Platforms, wind farms, buoys, risers, J-tubes, moorings, anodes)



FPSO and Workboats (Hulls, thrusters, ballast tanks, thickness measurement, CP measurement)



Pipelines and cables (Oil&Gas pipelines, telecom cables, wind farm power cables, footers, welds, anodes)

## APPLICATIONS – DEFENSE / SECURITY



- Video and sonar inspection
- Acoustic positioning
- Mission mapping
- Target detection
- Operation planning and monitoring



Surveillance of critical infrastructures (SEVESO sites, harbours, oil&gas terminals)



Diver supervision and support (Countermining, special forces, rescue teams, training)



Law enforcement (Drowned bodies, forensic and evidence, mines and other targets)



Ship hulls
(Struggle against
narcotics and other illegal
traffics, explosive/mine
detection)



**Search and rescue** (Mission planning, target detection, diver operation monitoring)



Surveillance of swimming areas (Detection of intrusions: sharks, etc., drowning situation detection, lifeguard operation monitoring)

### APPLICATIONS – MARINE SCIENCES / RESEARCH



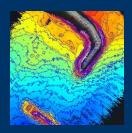
- Video inspection
- Underwater mapping
- Acoustic and laser 3D modelling
- Water and sediment sampling
- Mission planning
- Physico-chemical parameters monitoring



Observation of underwater ecosystems (Fauna/flora, sampling, behavioural studies)



Environmental monitoring (Ecosystems, water quality, benthology, pollution monitoring, physico-chemical parameters)



**Hydrography** (Waterways, harbours, coastal areas, dams and reservoirs, channels)



Underwater archaeology (Wrecks, archaeological sites, confined areas, sensitive areas)

## APPLICATIONS - AQUACULTURE



- Video inspection
- Thickness measurement and defect scaling
- Full-time acoustic surveillance
- Breeding area protection thanks to smart nets



**Nets, buoys and moorings** (Hole detection, mooring chain control, fouling thickness control)



**Dead fishes recovery** (Accumulation area detection, collection with mii-ROVs)



intrusion (Sea lions, sharks, poachers, etc. automatic species identification, automatic localization of the intrusion, alarm triggering)

## APPLICATIONS - SHIPS AND HARBOURS





Hulls and thrusters (Inspection and measurements for maintenance scheduling, commercial ships, yachting)



Ballast tank inspection (Inspection and measurements for maintenance scheduling, defects mapping)



Supervision of wreck raising (Wreck positioning, wreck configuration, lifting point localization, operation monitoring)

## APPLICATIONS – NUCLEAR





Cooling loops inspection (Water intake, main feeders, cooling pools, drainage and outlets)



Inspection/cleaning of radioactive waste storage tanks

(Tank inspection in low visibility conditions, mud decompacting, sediment pumping)

# OUR ADDED VALUE







Flexibility



Safety



Time saving



Pushing operational limits

#### **Expertise**

Subsea Tech team mainly hires staff with strong operational background in the offhsore and underwater works sectors. The deep expertise and knowledge of the operational constraints brings us to design and manufacture products perfectly matching with the field operator's requirements. We are the first users of our products

#### **Innovation**

Thanks to its Project Department, Subsea Tech benefits from a strong innovation capacity in order to offer to our clients the required flexibility in the design of their projects. We do adapt to your technical specifications.

#### **Availability**

Our team is committed to bring the best quality products and services to our clients as well as an optimal reactivity regarding sales and technical support. Subsea Tech is certified ISO 9001 – 2008 since 2013, and ISO 9001-2015 since 2017.

# MAIN REFERENCES









































# CONTACT



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