



# Company Profile

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## Our Partners



## **The Company:**

**The Company offers a wide array of integrated services to support operations for land based and offshore industries.**

Our in-house capabilities in technology development are complemented by tie-ups with world leaders. We provide state-of-the-art products & solutions to a large and diverse customer base.

The company has associations with renowned manufacturers, major system solution providing companies across Europe, USA, Far East and the Sub-Continent

Our clients include major Oil and Gas Companies, Projects, Refineries, Industries and Contractors in the Middle East, Central Asia and Africa.

## **Our Vision:**

To be the Top Performing and Most Admired in-house integrated system solutions providing company.

## **Our Mission:**

To continuously deliver shareholder value by:

- Providing systems, supply, install and commission of products and services that satisfy the needs of our customers
- Constantly achieving operational excellence
- Conducting our business in a safe, environmentally sustainable and economically optimum manner
- Employing a diverse, innovative and results-oriented team motivated to deliver excellence

## **Our Objective:**

We are committed to deliver sustainable excellence in business performance by focusing on the following:

- Benefit our Clients
- Realize the potential of our people
- Meet our customer requirements
- Maximize production margins
- Safeguard asset integrity
- Deliver structural cost reductions
- Sustain a robust management system
- Deliver continuous sustainable Health, Safety, Security and Environmental excellence



**Products**





# Coastal Monitoring System



A true turnkey solution for maritime surveillance, our coastal monitoring system pairs a UHD digital radar and advanced multi-sensor PTZ camera system using a sophisticated software suite and automatic slew-to-cue performance.

The radar is an advanced X-Class radar system with impressive long-range detection up to 96 nautical miles. The Vega camera is a revolutionary multi-sensor PTZ camera boasting a long-range 135X visible day/night camera, long-range thermal infrared zoom, and optional ZLID NIR illumination with LRF.

This complete system is an all-in-one solution for oil platforms, ports, harbours, fish farms, marine protected areas, wind farms, nuclear power plants, bridges or dam constructions, military sites, submarine cable areas and more.

## Key System Features:

- › Automatic targets acquisition and tracking (200 ARPA targets / 1000 AIS targets)
- › Sound and visual alarms management according to customizable rules
- › Integration with Infiniti PTZ cameras for auto tracking with available thermal and visible sensors
- › Record up to one month of data (radar, target, video, audio) with unlimited archiving
- › Display weather (real time and forecasts)
- › Module platform allows for features like ASI and recording of radar tracks to be added later on an as needed basis

## Applications:

- › Detection of illegal marine activities (illegal fishing, piracy, terrorism, etc.)
- › Anti-collision system between vessels and/or platforms
- › Search and rescue operations
- › Optimization of port infrastructure
- › Protection of sensitive coastal sites



X-Band Radar Technology



2MP HD Sensor



15.4-2075mm Zoom Lens



1-5km Zoom Laser IR Diode



Cooled Thermal



Thermal Zoom Lens



Automatic Slew to Cue



# All-Weather Long-Range PTZ Camera

The Sigma is a customizable multi-sensor PTZ system that boasts an extreme long-range HD visible camera in options up to 2075mm. Paired with up to 5000m of ZLID illumination or a day/night thermal imaging camera up to 1400mm, this camera system provides ultimate nighttime surveillance performance. Combining these multiple sensors allows for accurate detection, recognition, and identification of potential threats. The housing is a rugged IP66 construction using a strengthened aluminum alloy with anti-corrosive coating, allowing it to withstand the harshest climates for dependable perimeter security, homeland defense, and coastal protection.

## Key Features:

- › Multi-Sensor Visible and Thermal Integrated PTZ System
- › HD or UHD Progressive Scan CMOS Day/Night IP Camera
- › Long-Range Visible Zoom Options from 33X to 135X
- › Visible/NIR Field of View Options from 62° to 0.15°
- › 12μm 640×512 VOx Uncooled Thermal Imager or Optional SD or HD Cooled Thermal Imager
- › Long-Range Thermal Germanium Lens Options available from 230mm to 1400mm
- › Dynamic Image Contrast Enhancement (DICE) for a Clear Thermal Image
- › Up to 30+km Human Detection and 60+km Vehicle Detection with Thermal (using Johnson Criteria DRI standards)\*
- › Self-Locking Worm Drive with 0.01°-30°/sec Pan Speed and 0.01°-15°/sec Tilt Speed
- › Micro-Step Technology for Quick, Accurate Pan/Tilt Control
- › IP66 Military-Grade Design with Military Cable Connectors



**33X**  
ZOOM

**38X**  
ZOOM

**49X**  
ZOOM

**95X**  
ZOOM

**135X**  
ZOOM

26mm-  
**230**  
Ge ZOOM

31mm-  
**310**  
Ge ZOOM

Multiple Zoom Lens Options up to 2075mm

Uncooled Thermal Zoom up to 310mm

18mm-  
**435**  
Ge ZOOM

65mm-  
**1000**  
Ge ZOOM

115mm-  
**1200**  
Ge ZOOM

70mm-  
**1400**  
Ge ZOOM

**PTZ**

PTZ Controls



**IP66**

Waterproof with Military Connectors

Optional Cooled Thermal up to

**ZL**

Optional IR Illumination



# Visible/NIR HD Zoom Camera

**Standard Color Visible Image**  
(Optical Fog Filter Disabled)



**NIR Image**  
(Optical Fog Filter Enabled)

## VIS/NIR Optical Camera

Infiniti's VIS/NIR zoom cameras utilize the visible and near-infrared bands of light to provide high-quality images optimized for long-range surveillance. They are designed to provide industry-leading performance and quality, with image resolutions ranging from HD 2MP (1080p) to UltraHD 4K/8MP.

### Sensors

The Sony progressive scan CMOS sensors offer excellent spectral sensitivity for both visible and NIR wavelengths. We use various sensor sizes depending on the application. Our 1/2.8" sensor is often selected for maximum range as the smaller sensor maximizes the long-range zoom capabilities of the camera, while still offering good low-light performance. Our 1/2" and larger sensors offer even better low-light performance and increase the effectiveness of our ZLID™ illumination.

### Continuous Zoom Lenses

The Sigma's precision engineered IR-corrected zoom lenses offer a wide range of focal lengths with zoom factors from 33X up to 135X optical zoom. Infiniti's zoom optics are built with the highest quality Japanese fluorite ELD low dispersion glass, and the integrated rapid auto focus allows long-range surveillance of targets without operator intervention.

### Optical Fog Filter (NIR Only Mode)

While all of our sensors offer a nighttime NIR+visible mode for optimized sensitivity in low light, the cameras equipped with our NIR bandpass filter (also referred to as a "fog filter") allow users to isolate the NIR (near-infrared) wavelength of light during the day for clearer long-range daytime imaging.

Long-range imaging needs to see through large amounts of atmosphere which often contains particulates like smoke, haze/fog, and other atmospheric distortions. Cutting out the visible wavelength and isolating the NIR can mitigate the effects of smoke, haze and light fog, producing an image with better contrast and less distortion. Our Optical Fog Filter lenses incorporate a motorized filter that is used with the camera's monochrome mode and de-haze image processing to see through smoke, smog and haze, it is available on our -NX models.

# COASTAL MONITORING Sensors



## UHD Digital Radar

Specifications	
Antenna Size	6ft
Antenna Type	Open Array
Band	X-Band
Power Usage	24V DC
Power Output	25kW
Range	96 nautical miles

## X-Band Marine Radar

We offer native and advanced compatibility with most of the newer marine radars on the market. Up to 6 radars can be remotely merged, displayed and controlled from our coastal monitoring.

## Cameras

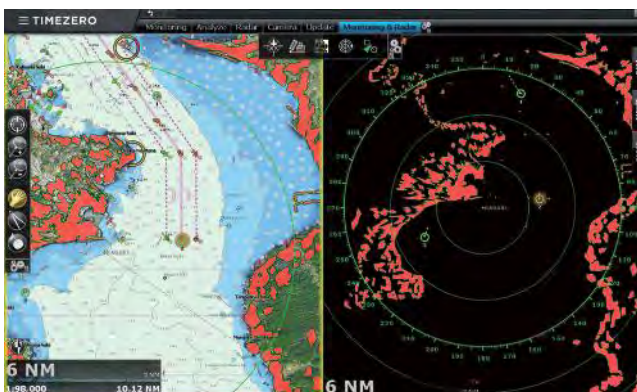
Slew-to-cue and tracking integration with Infiniti Electro-Optics cameras can track targets picked up via radar either manually or automatically based on user defined parameters. Up to 12 cameras can be displayed and controlled.

## Optional AIS

Our coastal monitoring is compatible with all AIS receivers/transducers. Receivers will only be able to display the targets on the chart when AIS transducers will offer the possibility to automatically send text messages to vessels entering protected areas.

## VHF Recording

The system can be connected to 4 VHF radios which allow the monitoring of up to 4 channels at the same time. Our VHF integration allows advanced record and backup capabilities for VHF channels. The intuitive user interface offers a very easy way to go back in time and listen to previous VHF communications together with vessels, movements, radar pictures, and videos.







# ZLID™ & Thermal Technologies

## See in the Dark with ZLID™

IR illumination allows for detailed video when there isn't enough natural light, however common IR LED illuminators have very limited ranges. For long-range illumination, a laser is needed. Many laser illuminators overexpose the center of the screen and leave the edges dark. Infiniti's ZLID (Zoom Laser IR Diode) technology synchronizes the IR intensity and area illumination with the zoom lens for outstanding active IR performance, eliminating over-exposure, washout, and hot-spots for clear images in complete darkness.



## See Further with Thermal

An optional thermal imager lets you see further than any other night vision technology. Unlike traditional visible cameras, thermal imaging uses heat rather than light to see objects. Humans, animals, and vehicles are hot in contrast to most backgrounds, making trespassers hiding in shadows or bushes easy to spot. Thermal images are also unaffected by bright light and have the ability to see through atmospheric obstructions such as smoke, dust, and light fog. This makes it an ideal technology for many applications, including surveillance and security, search and rescue, fire, marine and land navigation, wide area situational assessment and much more.



## 12μm VOx Thermal Imager

The Sigma utilizes a cutting-edge 12μm VOx uncooled sensor, giving the camera a narrower field of view without changing the lens. The smaller 12μm pixel pitch achieves a 40% further range than 17μm sensors or 200% further range than older 25μm sensors. The high sensitivity sensor detects differences in temperature as small as ±0.05°C, and its no-maintenance VOx design, unlike ASI and other thermal cores, is self healing and resistant to solar damage.

## Germanium Lenses

Our germanium optics boast industry-leading aperture sizes. These larger apertures allow more thermal energy to reach the sensor, reducing image noise and further increasing clarity and performance.





# Magnetic Miko Plaster

- For sealing off sea chests, water inlets and outlets on floating structures
- Used as a cost-saving alternative to drydocking
- Can also be used for temporary repair of cracks and punctures in hull
- Cracks in hull plating at engine room on FPSO "Abo"
- Miko Plaster was applied to stop the leak



With Miko Plaster secured on the outside, repair welding was carried out from inside



# Underwater Magnets

- Ranging from 90 to 2 000 kg
- Typical applications:
  - Anchor points for divers
  - Installing Miko Plaster
  - Improved watertight seal
  - Securing oil booms
  - Securing mooring lines
  - Securing fenders



MAM-Light



MAM-003



MAM-001



MAM-00X



MAM-005



# Tank Sealer Kit



- First barrier against leakages on storage tanks
- Neoprene Miko Plaster® and strong magnets combined
- Total weight: 56 kg

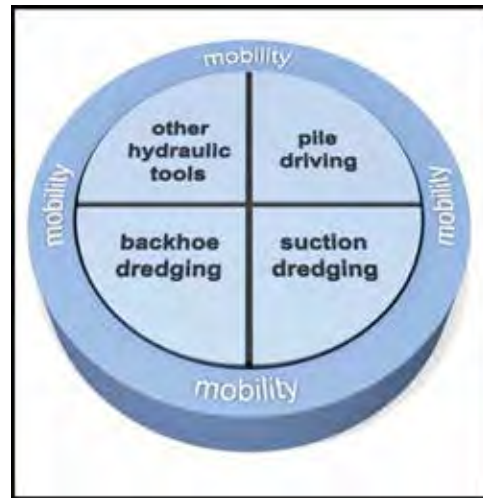
Quantity	Item
1	Neoprene Miko Plaster® 750 x 750 mm (with 300 x 300 mm neoprene sheet)
1	Neoprene Miko Plaster® 750 x 1 050 mm (with 300 x 600 mm neoprene sheet)
2	MAM-003 Miko Anchor Magnet
4	MAM-Light Miko Anchor Magnet
1	IP54-classed storage- and transportation box

## ★ MARINE - DREDGING:

### Watermaster Classic - Smart solution for hard work

The multipurpose Watermaster can complete most jobs at the worksite on its own. It can do Bucket Dredging, Clamshell, Suction dredging, cutter suction dredging, Raking, Piling (Sheet /circular/Wooden piles).

Watermaster Classic saves the nature. By using its multipurpose technology it is possible to complete all the jobs at the site with one machine. There is no need to mobilize several one-purpose machines like a single-purpose suction dredger, an excavator on a pontoon, tugboat or assisting vessels for anchorage to the site.



The environmental Watermaster Classic offers economical high quality solutions for restoration work in various water environments.



## ★ MARINE - OILFIELD SUPPORT EQUIPMENT:

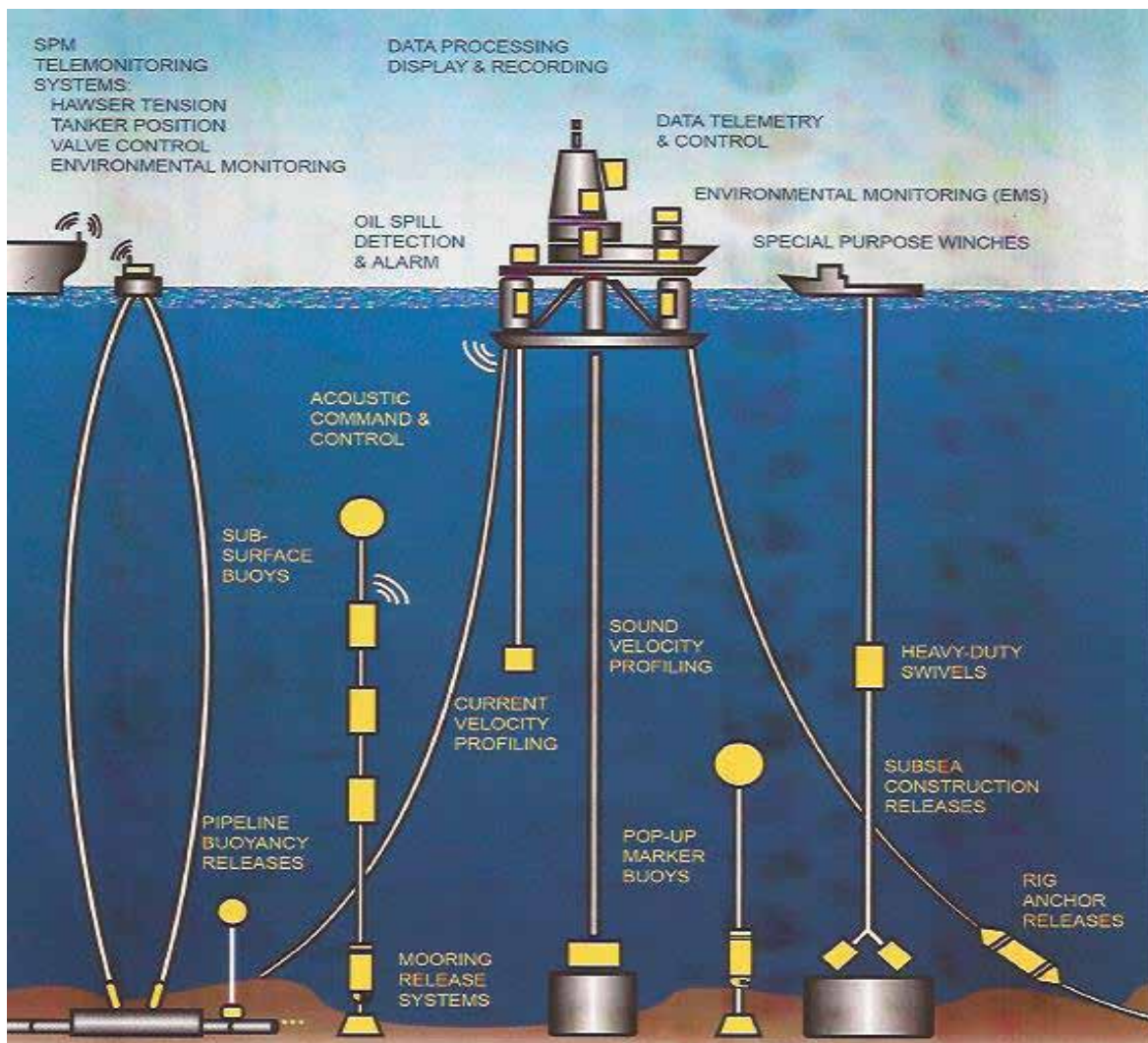
*"A Complete Range of Field Proven Equipment":*

### *Above Water Level Use:*

- Single Point Mooring (SPM):
  - Tele-monitoring Systems:
    - i. Hawser Tension
    - ii. Tanker Position
    - iii. Valve Control
    - iv. Environmental Monitoring
- Oil Spill Detection & Alarm
- Data Processing Display & Recording
- Data Telemetry & Control
- Environmental Monitoring (EMS)
- Special Purpose Winches

### *Underwater:*

- Pipeline Buoyancy Releases
- Sub-Surface Buoys
- Acoustic Command & Control
- Mooring Release Systems
- Current Velocity Profiling
- Sound Velocity Profiling
- Pop-Up Marker Buoys
- Heavy Duty Swivels
- Subsea Construction Releases
- Rig Anchor Releases



We provide quickest solutions to your Marine & Oilfield Solutions integrated with the latest technology.



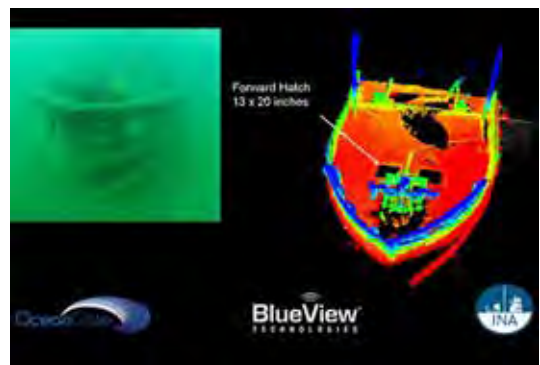
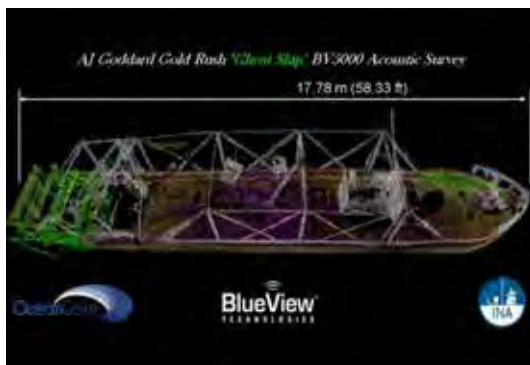
## ★ UNDERWATER MANNED SUBMERSIBLES:

### Manned Submersible technology For Underwater Survey and Inspection Works



### Manned Submersible technology For Underwater:

- ❖ Site Survey and Inspection
- ❖ Research and Data Collection
- ❖ Film and Media Production
- ❖ Deep Sea Testing Platform
- ❖ Assets and Operations



### The Manned Submersible Advantage

- Reduced cost of deployment and increased mission flexibility
- Safe, reliable, certified and insured manned submersibles and underwater vehicles
- Technology adaptation, development and commercialization
- Strategic partnerships leverage expertise across missions



## **ROVs & USVs SYSTEMS:**

Deep Ocean provides customized solutions for clients with specific requirements. Tailor-made solutions are engineered from component technologies, which have been proven in various industry applications. The engineering and manufacture of appropriately configured submersible delivery systems also include the integration of a wide variety of sensors, tools, electronic navigational controls and tracking systems, instrumentation packages and accessories.

### ***Remotely Operated Vehicles – ROVs***



### ***Unmanned Submersible Vehicles - USVs***



This is a Remotely Controlled electric surface vessel designed to make safe, unmanned measurements of currents, Bathymetry, and Discharge with ADCPS. It is fully customized with a computer, GPS, depth sounder and a variety of other instruments vessel, designed to make safe, unmanned measurement of currents, Bathymetry, and Discharge with ADCPS. It is fully customizable with a computer, GPS Depth sounder and variety of other instrument

## DISASTER MANAGEMENT & SURVEILLANCE SYSTEMS:

*Envitech Middle East* is the pioneer in the design & manufacturing of the Disaster Management and Protection Products & Solutions.

We offer the very best in technological advance products and services offering our customers comprehensive solutions to needs.

Our products are utilized across various industries ranging from Oil & Gas, Ports (Sea and Air), Border Security (State and National), Transport Sector, Civil Defense amongst others.

Some of our Core Products for the Land based Applications:

- ❖ Wireless Addressable Safety & Security Detection Systems
- ❖ Wireless Addressable Disaster Communication Systems
- ❖ ATV: All Terrain Vehicle
- ❖ Surveillance Radar



Marine & Offshore Applications:

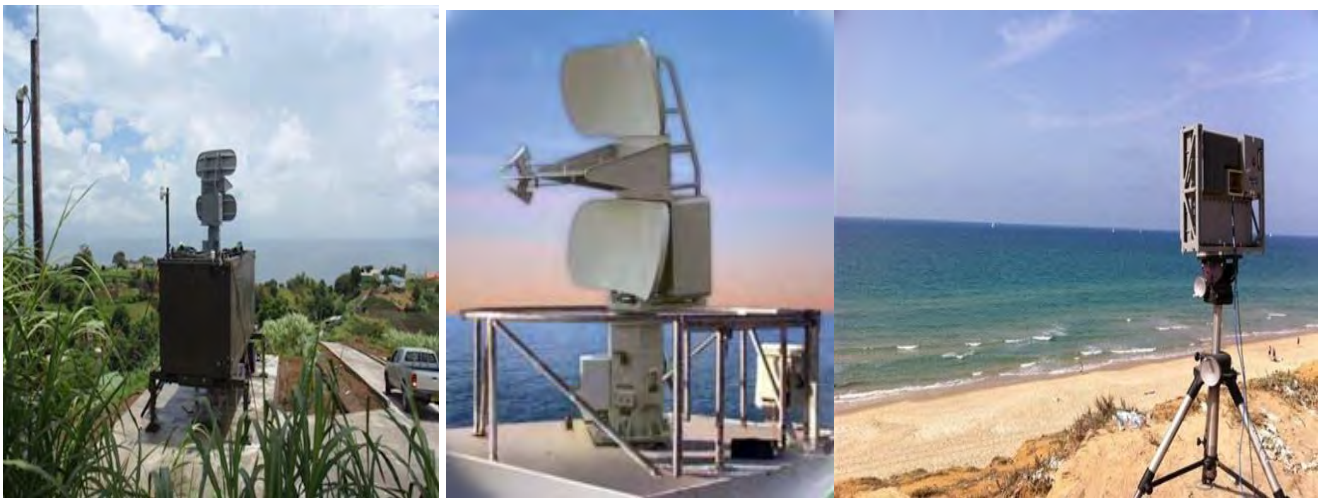
- ❖ Offshore Surveillance Radar
- ❖ SPM Protection Radar
- ❖ Maritime Shore Based Sensors (VTS, CSS)
- ❖ Oil Rig Platform Protection



## COASTAL MONITORING AND SURVEILLANCE SYSTEMS

1. RADAR SYSTEMS
2. SCANNING CAMERA SYSTEMS
3. VESSEL MONITORING SYSTEMS

### ENVITECH Advance Coastal Surveillance Radars (ACSR) Systems



ENVITECH Radar Systems, can upgrade national coastal surveillance systems and provide radar systems to off-shore oil rigs.

The contract also includes a three-year maintenance agreement. The system, which provides comprehensive Maritime Situational Awareness (MSA) picture and surveillance capabilities against maritime threats, the system includes a National Coastal Surveillance Radar Center (NCSRC), radars, EO cameras, Automatic Identification System (AIS), meteorological sensors and other supporting infrastructure.

The key sensor in the system is Advance Coastal Surveillance Radars (ACSR) which detects all types of targets on the surface of the sea even under adverse sea conditions.

The radars can automatically detect and track more than 900 targets.





## ENVITECH Scanning & Observation Surveillance Camera Systems



ENVITECH Represents OEM developing and manufacturing Scanning & Observation Surveillance Camera Systems since the late 1990's. These systems provide an excellent and cost-effective solution for any Defense or Homeland Security missions requiring proven scanning and observation capabilities.

- Provide observation and panoramic scanning using a single system for operational short/medium/long ranges from 1 km to 20 km.
- Include a unique technology of high-resolution long-range night vision surveillance cameras and a unique concept of operation (CONOPS) using continuous automatic panoramic scanning with an automatic moving target indicator (detector), making these intruder detection systems ideal for reliable perimeter security, infrastructure protection, border protection, air base security and more.
- Are proven for boat detection for Coastal Surveillance, Port and Harbor Protection and more.
- Are proven aircraft detection for Air Defense Applications (when the Radar does not provide a reliable solution).

### **ENVITECH Scanning & Observation Systems include:**

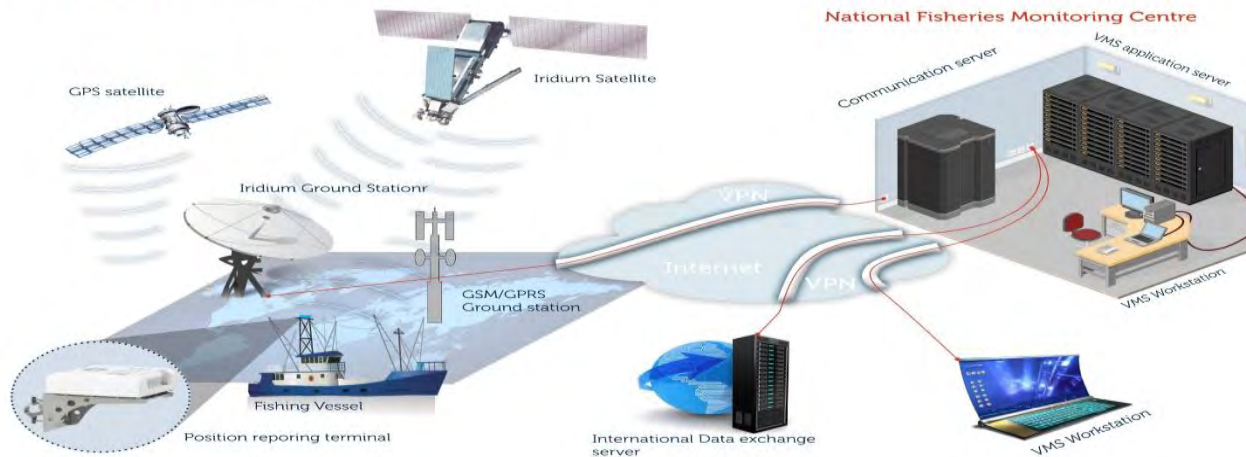
- Stabilized systems for long range observation and for installation on tall mast or poles.
- Unsterilized systems for short ranges and low-cost solutions.
- A variety of products which differ by size, weight and types of EO / IR sensors, as well as applications. These products are grouped as follows:  
Short-Medium Range Scanning & Observation  
Long Range Surveillance  
Scanning & Target Acquisition  
Balloons / Aerostats Surveillance



## VESSEL MONITORING AIS (Automatic Identification System)

**ENVITECH AIS System** that is used by ports and law regulatory organizations to track and monitor the activities of fishing vessels.

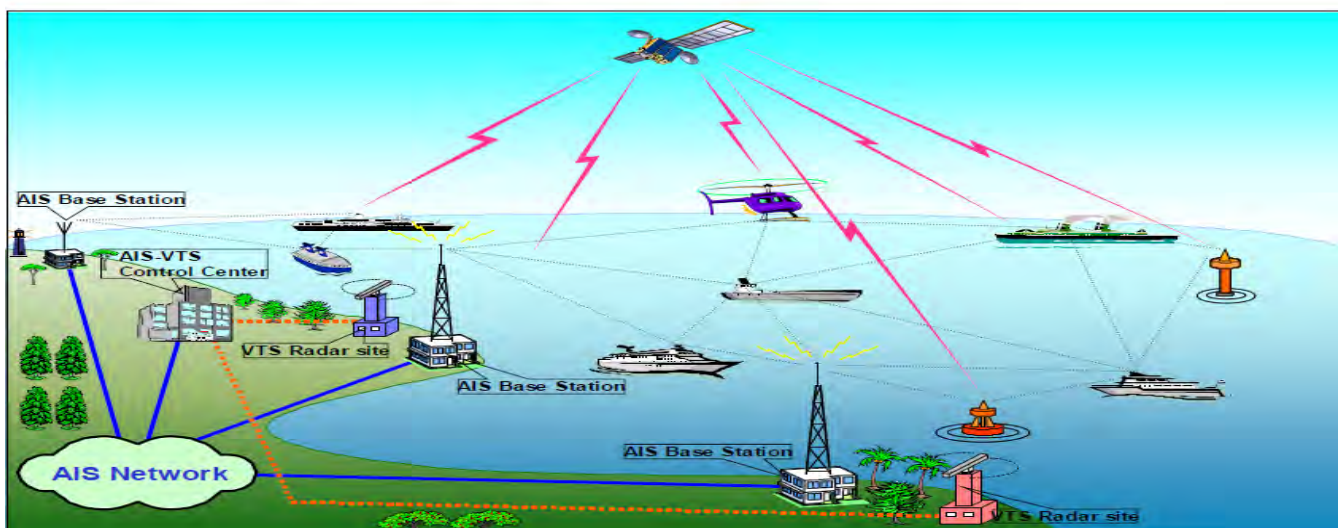
### VMS System Overview



### Vessels send their information to Fisheries Monitoring Center:

- ✓ Vessel's ID (at least vessel's name and registry number, fishing license references, boat owner, specifications, crew).
- ✓ The most recent geographical position of the fishing vessel, with a position error which shall be less than 50 m with a confidence interval of 99%. The position (error) should be as accurate as possible unless this is a high impact on the final cost.
- ✓ Date and time expressed in local time.
- ✓ Speed and course of the vessel.
- ✓ Serial number of the transmitting device.
- ✓ Status code.
- ✓ Geo-fence reference number when applicable.
- ✓ Other information as required.

This section describes AIS Base Station system.



## AIRBORNE SYSTEMS:

The Airborne Systems from Aerodata group (Germany) has unique technological capabilities in the field of Positioning, Real-Time Data Processing and Sensing

Core competencies of the Aerodata Group:

- Worldwide leader in Flight Inspection Systems for calibration of navigation and landing aids for civil and military aviation Turn-key special mission solutions for maritime patrol, marine pollution surveillance and police helicopter applications
- Key supplier of customer specific supplementary avionic systems such as navigation and communication systems

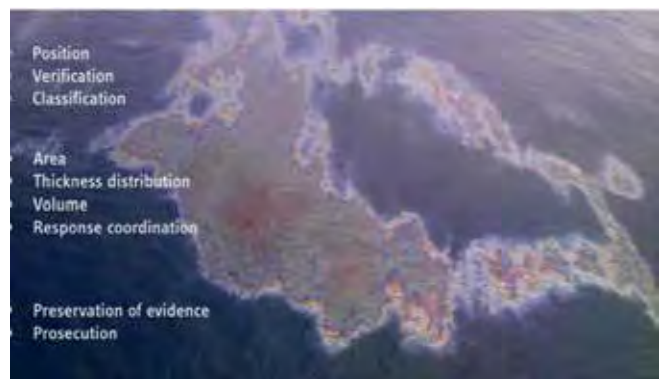


Avionics, Navigation & Communication:

- Aerodata designs, manufactures and integrates avionics including navigation, Iridium based communication systems (AeroNav®, AeroPhone®) and integrated fleet management systems
- AeroNav®: 150 systems delivered to Federal border police of Germany and other police organizations



*Airborne Scans for Oil Spill*



*Oil Spill Detection & Analysis*

## ⚙️ Competitive Advantage

Envitech Middle East provides very the latest in technology & state of the art Products and Services that have no competition and are monopoly in nature in our area of operation.

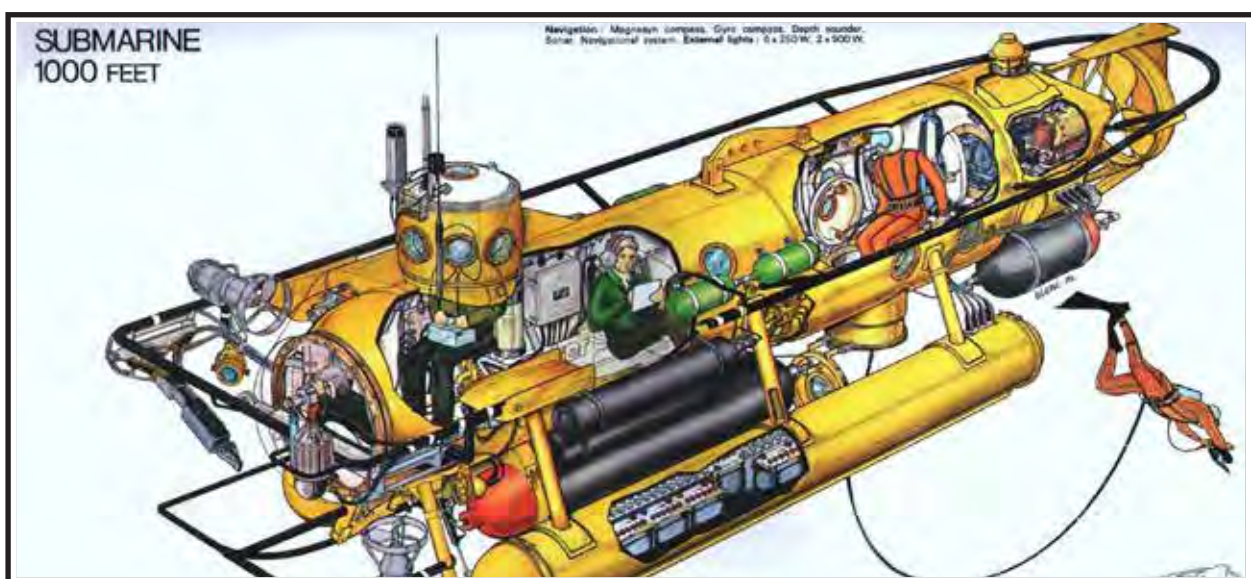
The key strength of Envitech is to provide cost effective solutions to their clients with our Innovative Products & Services.

Our Products and Services enable our clients to adhere to the best Environmental and cost effective solutions compared to the existing systems in the market.

We have earned a strong reputation for quality, innovation, service and speed of response, and we are continually striving to grow and enhance our offering.

## ⚙️ New Products & Technology Introduced in Middle East by ENVITECH

- Hydraulic Generator, Compressors and Hydraulic Hi-Pressure water pumps
- Non-Contact Oil Spill Detectors with solar powers and self-addressable systems
- Manned Submersibles for underwater search and survey, inspection and surveillance.
- Disaster monitoring systems that are self-addressable.
- Security and Environmental self-addressable systems
- Diesel Fast fuel systems
- Aerial airborne surveillance solutions.







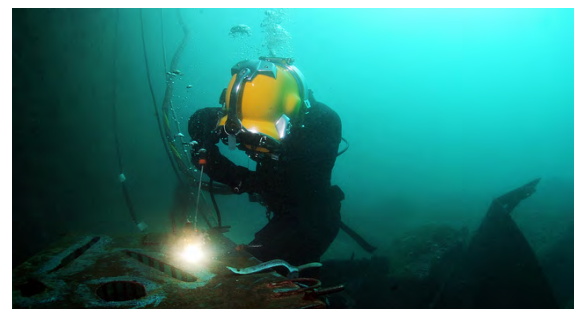
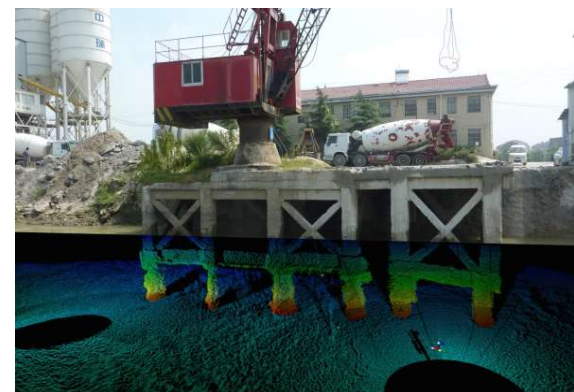
**Services**

Envitech provides Marine, Offshore, Environment and Oil&Gas services. We are actively dealing with government and semi-government organizations including the Oil&Gas companies and power and desalination plants.

As an engineering institution by itself, with proficiency in approach to any project, the Company has highly professional touch adheres to cost control, schedule and quality control, to the entire satisfaction of clients and third party Inspection agencies, like GL,LRS,IRS,BV,ABS,DNV,NACE etc. which has paved the foundation.

### ***Services provided:***

- ❖ ***EPC(Engineering Procurement and construction)***
- ❖ ***Non Destructive Testing & Inspections***
- ❖ ***Commercial Diving Operations***
- ❖ ***Vessels Operations and Management***
- ❖ ***Marine Consultancy***
- ❖ ***UXO Survey***
- ❖ ***Geological, Geophysical & Hydrogeological Services***
- ❖ ***Land Based And Underwater Objects And Structures Survey, Inspection And Assessment***



## **EPC (Engineering, Procurement and construction)**

- ❖ Construction and maintenance of surface ships, hovercraft, upgrading & shutdown.
- ❖ Piping works Flow arm/ Riser piping for oil and gas production as also water injection lines. Materials include carbon steel, NACE, SS, DSS, Inc Alloy and Cus Ni.
- ❖ Hook up operations and shutdown operations.
- ❖ Structural work comprising steel modules and assemblies, renewal of painting.
- ❖ Accommodation quarters, Walkway Bridge.
- ❖ Electrical Instrumentation and Controls.
- ❖ Major structural/architectural repair works and modifications of offshore structures.
- ❖ Tow outs of structures and pre fabricated pipelines,
- ❖ Installation of templates, drilling rigs and subs sea installations.
- ❖ Pipe lay positioning support.
- ❖ Trenching surveys for pipes and cables.
- ❖ Pre---engineering surveys for pipelines, cables and structures.
- ❖ Retrofit of Offshore Cathodic protection Systems
- ❖ As---laid and as---built surveys.
- ❖ Routine /emergency pipeline inspection surveys

## **NON-DESTRUCTIVE TESTING AND INSPECTION**

### ***Underwater structures:***

- ❖ Inspection planning executing and documentation of all underwater structures.
- ❖ Close visual inspection of welds.
- ❖ Magnetic particle inspection (MPI)
- ❖ Ultrasonic wall thickness measurements(UT)
- ❖ Cathodic protection readings(CP)
- ❖ Dye penetrant testing.
- ❖ Radiography of welds.
- ❖ Surface and under ---water inspection of risers and pipe lines.
- ❖ Still photography
- ❖ Close Circuit television (CCTV) survey
- ❖ General survey inspection Internal & external pipeline inspections.

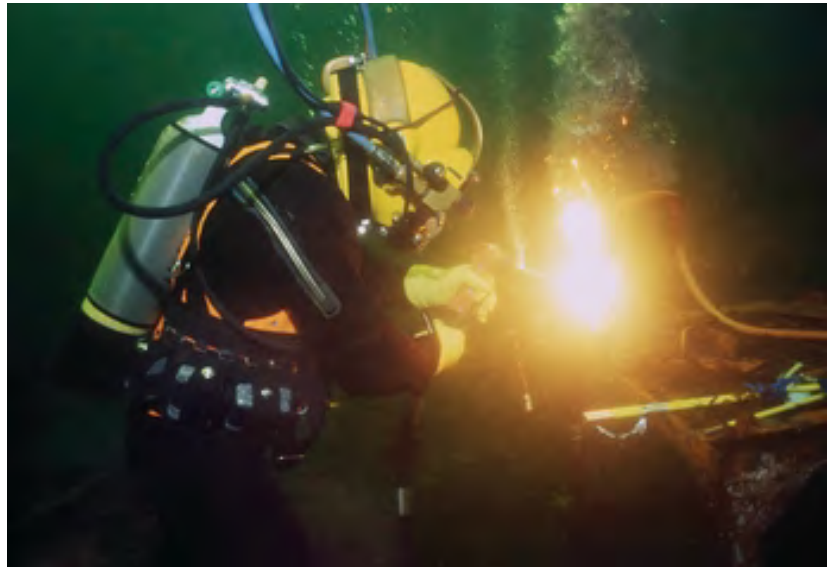
### ***Surface structures:***

- ❖ Non Destructive Testing (UT, RT, MPT, VT, LPT, ECT, etc)
- ❖ Inspection of Fabrication jobs per Codes and Specifications (ASME,BIS,BS,AWS&AIP)
- ❖ NDT&Residual life assessment of Reformer Tubes/Cracker Tubes (testing Inspection & Certification of pressure vessels & lifting Machines)
- ❖ Design, inspection, verticality Check---up & stability analysis of industrial chimneys.
- ❖ Ultrasonic Thickness Testing of storage tanks, process pipelines, tower, columns and other equipment for corrosion monitoring.
- ❖ Metallurgical failure analysis/spark testing



## COMMERCIAL DIVING OPERATIONS

- ❖ Air/Mixed Gas diving services
- ❖ Under water inspection, maintenance and repair of offshore structures /rigs/pipelines/removal of marine growth etc.
- ❖ Hydro blasting & epoxy injection.
- ❖ Pre engineering and post installation surveys of offshore structures.
- ❖ Under water marine construction including installation of clamp on structures, risers, conductors, etc
- ❖ SBM/SPM Operation and Maintenance services.
- ❖ ROV services
- ❖ Diving services for riser installation, pipe laying projects, platform and SBM installation.
- ❖ Under water welding /cutting /sand blasting
- ❖ Rig/drill ship support services.
- ❖ The company owns the required equipment for Air, Mixed Gas Diving
- ❖ The company also owns under water NDT equipment, cutting and welding gear, hydraulic power packs, Tools and Tackles, CCTV, etc



## VESSELS OPERATIONS AND MANAGEMENT

*Technical management, maintenance, services and crewing on the following type of vessels:*

- Dynamically positioned multi-purpose support and diving vessels.
- Offshore construction vessels and work barges.
- Geo-technical vessels and workboats
- Anchor handling, fire fighting and supply vessels
- Tug and barge flotillas
- Jack up rigs & oilfield platforms
- Surface/Logistics support to vessels



## MARINE CONSULTANCY

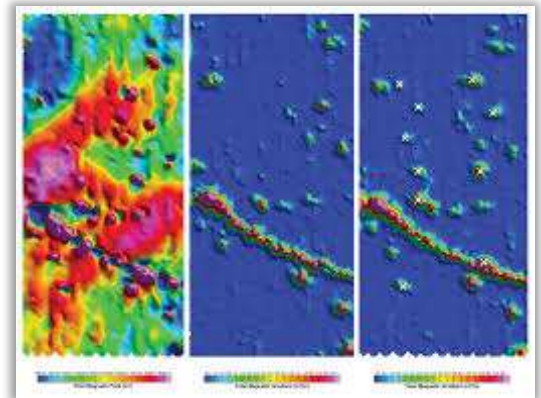
- Feasibility studies & Reports
- Environmental Management(coastal and offshore Environments)
- Geophysical /Hydrographic survey operations
- DGPS positioning services and consultancy
- Geographic information systems(GIS)services
- Topographic survey and Base plan preparation
- Port, Harbour and coastal surveys
- Dimensional control
- Fibre---Optic Laying and positioning services
- Material &Manpower planning, Cost/schedule control, Execution / implementation of offshore contracts.
- Damage surveys & Appraisals
- Insurance/Finance Surveys & Documentations



## UXO SURVEY

Envitech can provide you with innovative, technically advanced and individually tailored survey solutions for land and underwater Explosive Ordnance surveys.

- We use underwater detection equipment that is technologically advanced, reliable and of excellent quality. The detection specifications can be modified to individual configurations to meet a wide range of customer needs in underwater search for objects with metal content. After an object has been detected, a diver can investigate it, either by water jetting, airlifting or a subsea dredging. All diving activities are recorded on a video recording system.
- Many of the areas that are contaminated with unexploded ordnance lie offshore and require specific underwater surveys. For these projects we can provide a Remotely Operated Vehicle (ROV) to support UXO underwater survey activities. An ROV is remotely operated from a nearby ship and can be fitted with additional equipment, such as a dredger and manipulator.
- Envitech offers a variety of inshore and offshore survey equipment.



A magnetometer survey is the most common approach to detecting ferrous-based UXO. Depending on the assignment, we make a selection of appropriate magnetometers for the detection of underwater ammunition and aerial bombs. The data collected in the UXO survey is also interpreted for other hidden dangers such as utilities, construction works or ammunition dumps.

To detect deep unexploded ordnance 3D Magcones or 3D Magdrills are deployed, which are equipped with UXO magnetometers. The Magcone penetrates the ground without predrilling and obtains geotechnical and magnetic field data simultaneously in one push.





## LAND BASED AND UNDERWATER OBJECTS AND STRUCTURES SURVEY, INSPECTION AND ASSESSMENT

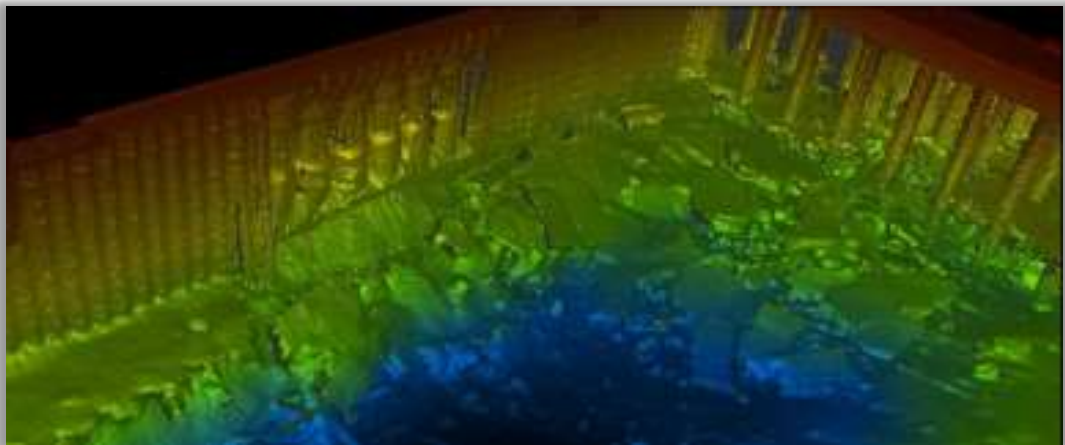
- Collecting data from land based and marine manmade assets in water zone
- Optimization of maintenance and budgeting processes
- Assets risks reduction
- Rapid response for ship crashes or other accidents to help manage assets.

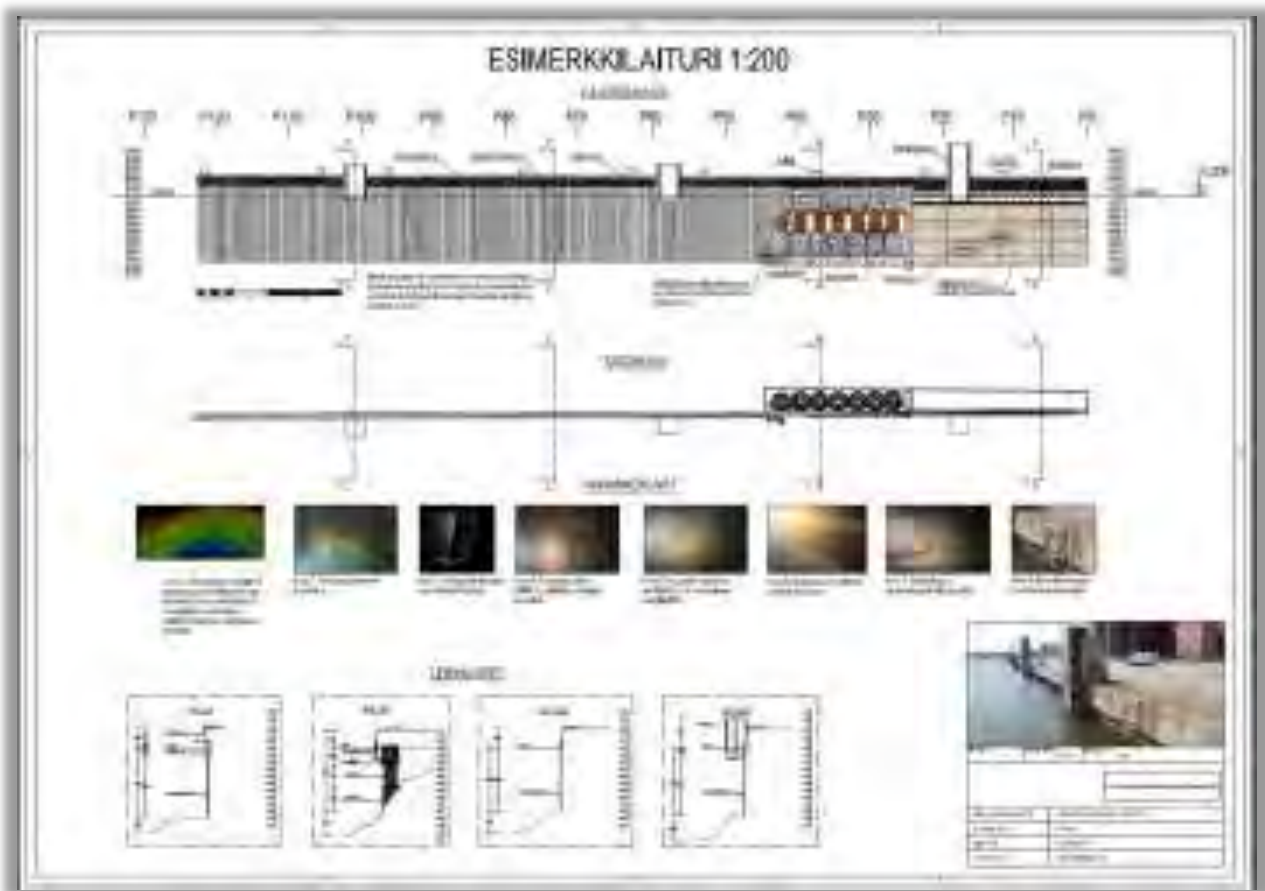
### ❖ **Technology:**

- Visualized 3D images
- Data in coordinate systems
- Analyses done by coastal engineers
- No delays or errors in repairwork planing
- Works as quality label pre and post repairwork

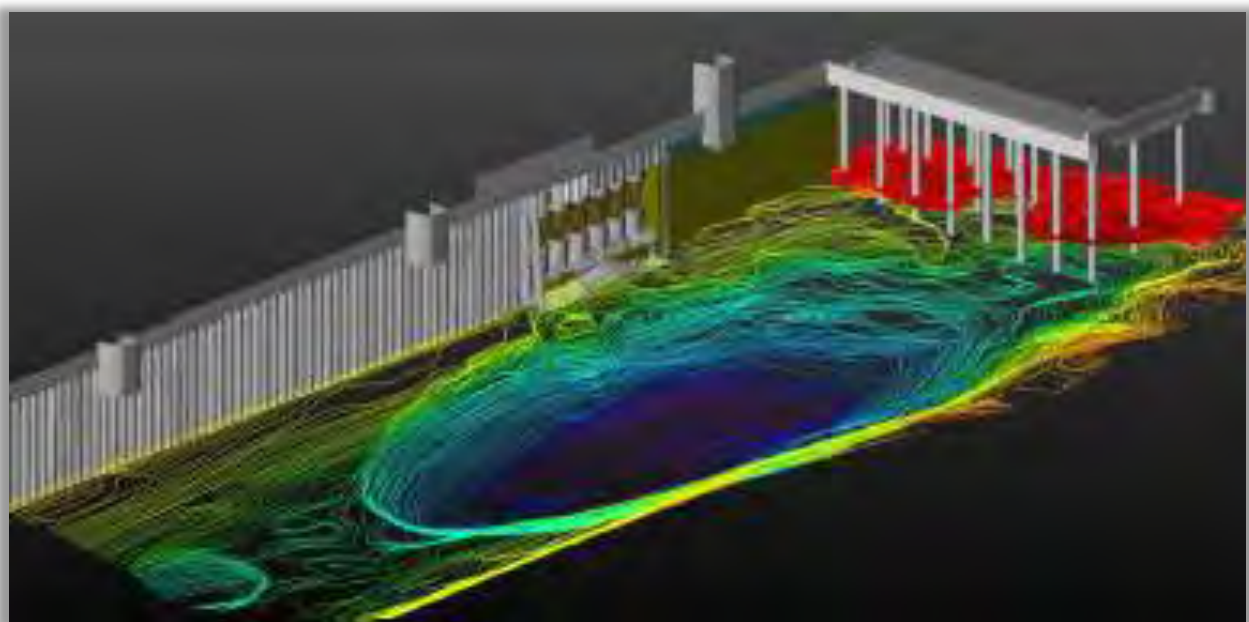
### ❖ **Resulting information:**

- Visualization images (clear view with overall understanding, seeing the damages)
- Written inspection report
- 2D CAD drawings
- 3D CAD drawings
- Volume calculations
- Change comparison
- Pinpointing the areas of concern with the greatest detail





2D CAD drawing



3D CAD model



**New Products & Technology  
introduced by Envitech**



**Some Examples of the Systems introduced by Envitech Middle East to prestigious Clients in the Region**

**Oil Spill Detection (Self Addressable) Systems**

**Client: TAPCO Taweelah Asia Power Company, Abu Dhabi, UAE**



**Potential Opportunity:**

**As the system has been approved by the ADWEA and there are no other systems of this category in the market we have the potential to promote and install to all the other power and desalination plants in the region.**

**Additional can be installed at ports and oil and gas installations**

## Hydraulic High Pressure Water Pumps

Client: Bee'ah, Waste Management, Sharjah, UAE.



### Potential Opportunity:

The usage of this system in the Oilfield and Heavy Industry by having the potential to convert the hydraulic from any heavy machine to Hi Pressure water pump optimizes our clients' potential for productivity, cost-cutting and logistics. The targeted clients are Oil field, Heavy Industry and Heavy Equipment Owners.

### Target Clients:

Waste Management Companies  
Civil Defense  
Fire fighting  
Construction and Demolition Companies  
Marine Oil and Gas

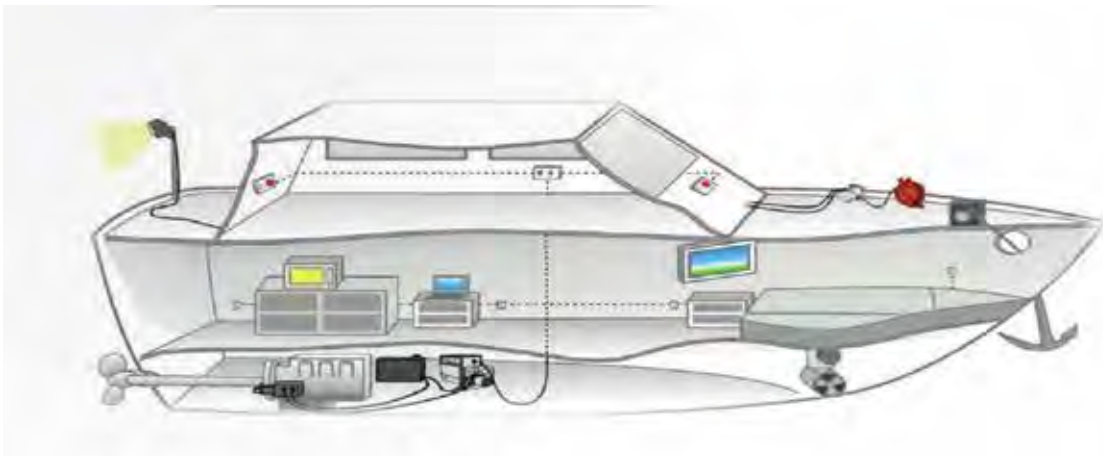
## Hydraulic Generator System

Client: INDATA Oilfield, Dubai, UAE



### Potential Opportunity:

The usage of this system in the Oilfield and Heavy Industry by having the potential to convert the hydraulic from any heavy machine to electricity optimizes our clients' potential for productivity, cost-cutting and logistics. The targeted clients are Oil field, Heavy Industry and Heavy Equipment Owners.



### Dynaset Hydraulic Generator installed on Boats with Inboard Engines

#### Target Clients:

Waste Management Companies  
Civil Defense  
Fire fighting  
Construction and Demolition Companies  
Marine Oil and Gas



## Dust Suppression System

Client: WBG Crusher Ras Al Khaimah, UAE



### Potential Opportunity:

As per the stringent Environmental Rules the Dust Suppression Systems are mandatory for Rock Crushers, Demolition Companies and other industries. We are in a position to this issue with our latest state of the art Dust Suppression Systems ranging up to 17 different models and customized installations

### Target Clients:

Waste Management Companies  
Civil Defense  
Fire fighting  
Construction and Demolition Companies  
Rock Crushers and Quarries

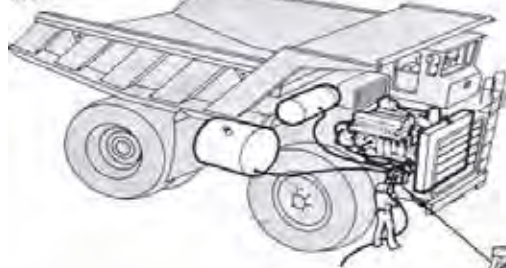
## Diesel Fast Fill – Fueling System

Client: Mohamed Abdulrahman Al-Bahar (CATERPILLER), UAE

Client: Zahid Tractor, Saudi Arabia, KSA



Central Service Box Mount



Bracket Mount

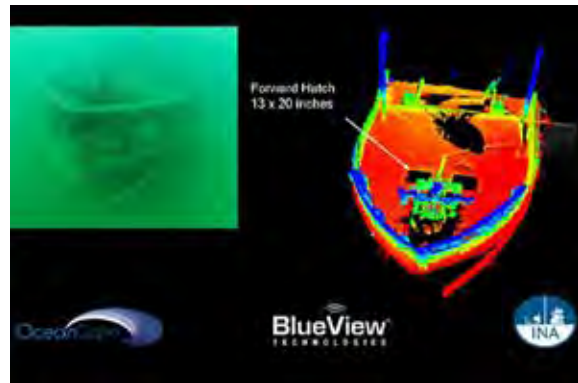
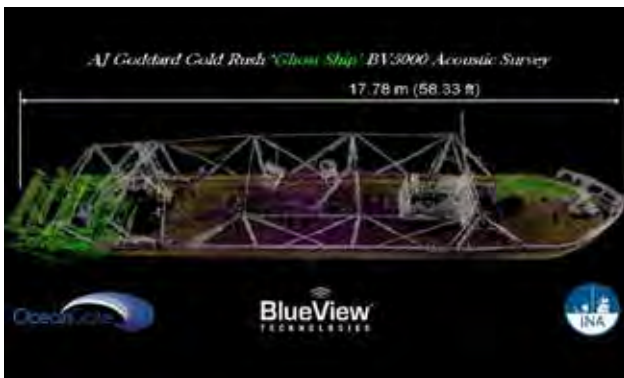


### Potential Opportunity:

Our clients stand to benefit by using the Fast Fill System in regards to time, quality of fuel and anti-theft mechanism that the system offers. This ensures longer productivity and longer operational life for the machines. All big contractors having heavy machinery and rental fleet owners of off roads vehicle are our targeted clients.

## Manned Submersibles

**Client: ADMA OPCO Abu Dhabi Marine Operating Company ADNOC Group**



## Potential Opportunity:

ADMA OPCO is interested in a contract of 90 days for the Manned Submersibles. On successful deployment the client will be focusing on more applications for the manned submersibles.

Envitech is the only company in the whole of MENA Region promoting this Technology.

The advantages to client are:

- Lower Operational Cost
- Fast & Quick Deployment
- Safety as per required International Standards

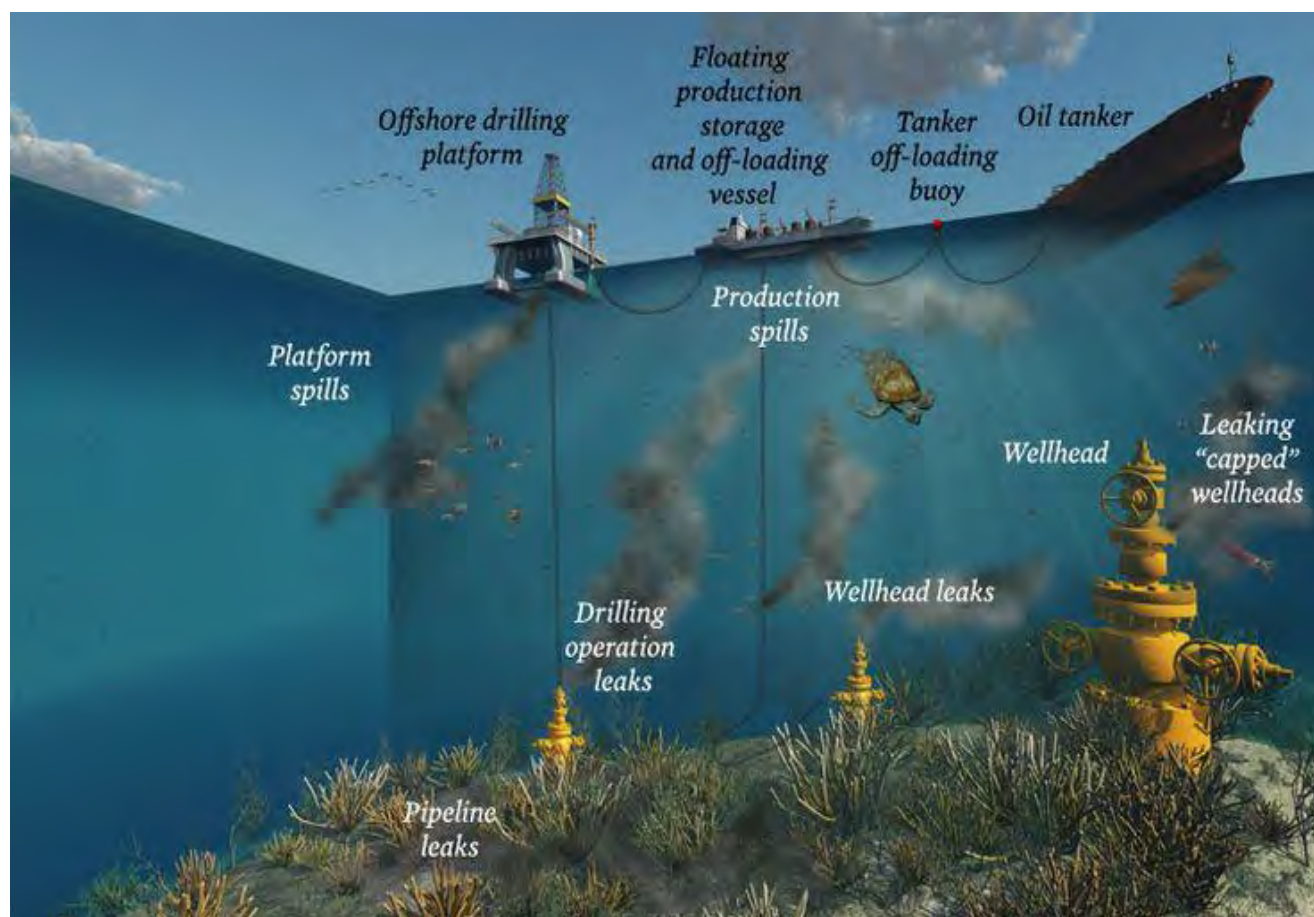


### Underwater Manned Submersible Benefits:

- 3, 4, or 5 crew capacity to allow for onsite collaboration
- Life support for 5 Persons with Endurance of 72 hours
- Internal space to hold equipment and gear
- Diverse HD image content library
- Mobile, cost-effective and efficient solutions
- Environmentally sensitive

### Security and Environmental Applications

- Search for UXO
- Seabed inspection
- Study and monitor marine environment



## Airborne Surveillance Solutions

Client: Environmental Agencies and the Enforces (Coast Guard, Maritime Authorities), Oil Companies.



**OctoPod**



**Missions**

- Airborne Maritime Surveillance
- Oil Spill Surveillance
- Search & Rescue
- Airborne Land Surveillance



IR/UV



VIS



MWR-P



LFS-P



SLAR



Direction Finder



EO/IR



Patrol Radar

### Potential Opportunity:

The Potential of using this Technology is very high as with this we cover very large areas on Land & Sea. This success is a result of the absolute focus on the conceptual design, construction and integration of system products as well as special security relevant services. This enables our clients to be more prepared and take corrective measures for better Environmental, Safety & Surveillance requirements.

Envitech is the only company in the whole of MENA Region promoting this Integrated Technology in the Region.

The advantages to the client are:

***Early Warning Systems - Large Areas Scans - Special Mission Aircrafts - Cutting down in cost & time***



**Present Ongoing Projects**



# Search, survey and recovery of dismantled fire arms (India)

**Client: CBI, SIT Maharashtra and SIT Bengaluru**

**Job Description: Search and recovery of Dismantled fire arms as evidence for ongoing investigation.**

ENVITECH Marine Consultants Pvt Ltd Strategy is to use the latest in Hi-Tech search and survey equipment to identify and locate the object of search.

## PROJECT PARTNERSHIP



To Assist us in the project we are in joint venture and also are the exclusive representative for the following companies from Norway and USA.

- Main Contractor:

**ENVITECH MIDDLE EAST**



- Technical Support:

**MIKO MARINE AS (NORWAY)**

Manufacturing and marine consultancy company with over 17 years of experience in salvage and underwater services for oilfield, NAVY and numerous customers around the globe. Certified according to ISO 9001:2015 and ISO 14001:2015.



- Equipment Support:

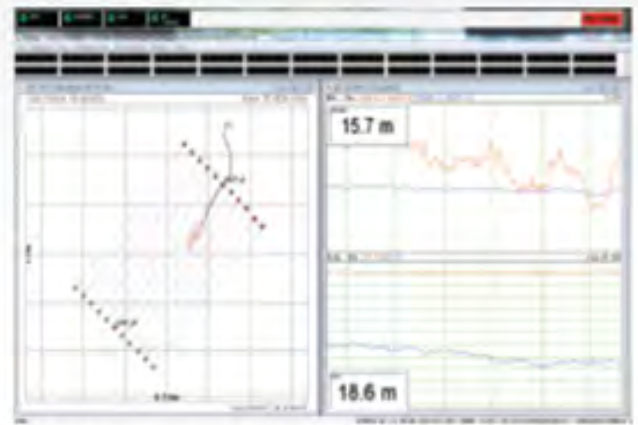
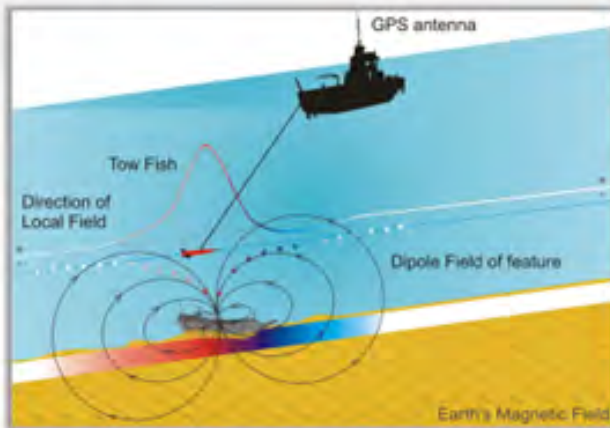
**JW FISHERS INC. (USA)**

JW Fishers are specialists in the design and manufacture of underwater search systems with over 45 years of industry experience. JW Fishers equipment in use by professional treasure hunters, commercial diving companies, law enforcement agencies, fire departments, search rescue teams and military units worldwide.



## PROCEDURE

### STAGE I



Magnetometer survey

## PROCEDURE

### STAGE 2



- Pinpointing search spots
- Air lift de-silting



Project first phase is completed.

We presently have 3 More search and recover jobs from Police agencies in India. We are also providing quote for Coastal Surveillance system.





We are presently in final stages of discussions with the Government of India regarding the proposal of converting the Decommissioned Aircraft carrier INS "Viraat" to a marine air, sea and space museum cum heritage trust.

### Present status:

- As per petition from Envitech to the Supreme Court of India the Supreme court has put a stay order on the dismantling of the aircraft carrier (on judgement dated 10th February 2021);
- A clearance and NOC is expected to be granted by the Ministry.of Defence





# Brief background of the Project

## Introduction

HMS Hermes / INS Viraat-Flag Ship of 2 Navies.

The aircraft carrier is the Guinness World Record Holder for being the longest serving warship in the world. She was laid down as a Second World War ship in 1944. She was launched in 1953 and commissioned in 1959, and then served in the Royal Navy in three different capacities: as a modern fast jet aircraft carrier, as a helicopter and commando carrier, and then as a harrier carrier where she achieved great world fame as the Flagship in the 1982 Falklands War, returning in triumph to popular acclaim.

## Mission Statement

The mission of VIRAAT Land, Sea, Air & Space Museum is to promote awareness and understanding of history, science and armed forces through its collections, exhibitions and programming in order to honor our heroes, educate the public and inspire our youth.

Continue life of INS Viraat to inspire the future generations and bestows pride in those who served in her command. This project will highlight achievements of the Navy, Indian Army, Airforce, Space Research Organization and other connected organizations.

We create a platform for future generations where they can see the glory and pride of serving in the armed forces, help them in career development in service to the nation. Educational institution featuring the legendary aircraft carrier INS Viraat, through exhibitions, educational programming and the foremost collection of technologically ground-breaking displays, visitors of all ages and abilities will be taken on an interactive journey through history to learn about Indian innovation and bravery. Training for specialized marine and offshore not previously available in India will be promoted.

ENVITECH has already Received support letter from the Government of GOA for this Project.



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**India - UAE - Oman - Qatar**