



# enviros

CORPORATE  
PRESENTATION

## ABOUT US

Enviros is primarily involved in the offshore renewables and energy sector and is a global support services provider, delivering valuable data and services. The teams operating in the head office, regional offices and partners worldwide are dedicated to maximising local content each project.

With Global Centres of Excellence in Malaysia, United Kingdom, United Arab Emirates and Singapore, ENVIROS has extensive experience worldwide in a variety of industries and provides specialist and independent services, operating in the offshore, coastal and land environments on a global level.

Enviros is a geosciences, environmental and consultancy company, operating primarily offshore, on a global level, providing environmental studies, permitting and licensing, hydrography, metocean services, marine survey, geophysical and geotechnical investigation services, microbial and geochemical.







## COMPANY OVERVIEW

### REGIONAL LEADER

in the Offshore  
Geotechnical &  
Geophysical Industry

Highly specialised

**3** Geotechnical  
Vessels

**6** Geophysical  
Vessels

performing projects  
around the globe

### ESTABLISHED TIER 1 AND 2 CLIENTS



Large O&G  
Developers



Major Oil & Gas  
Players

Global Centres of Excellence in **Malaysia, Singapore, United Kingdom and United Arab Emirates** with a specialised data reporting centre in Kuala Lumpur, Malaysia and Advanced Soil Lab Testing in Singapore



**72%**  
Percentage of  
Oil & Gas Services



**28%**  
Percentage of  
OWF Services



**AA**  
Potential Carbon  
Score



**6+** Geophysical Vessels



**3+** Geotechnical Vessels



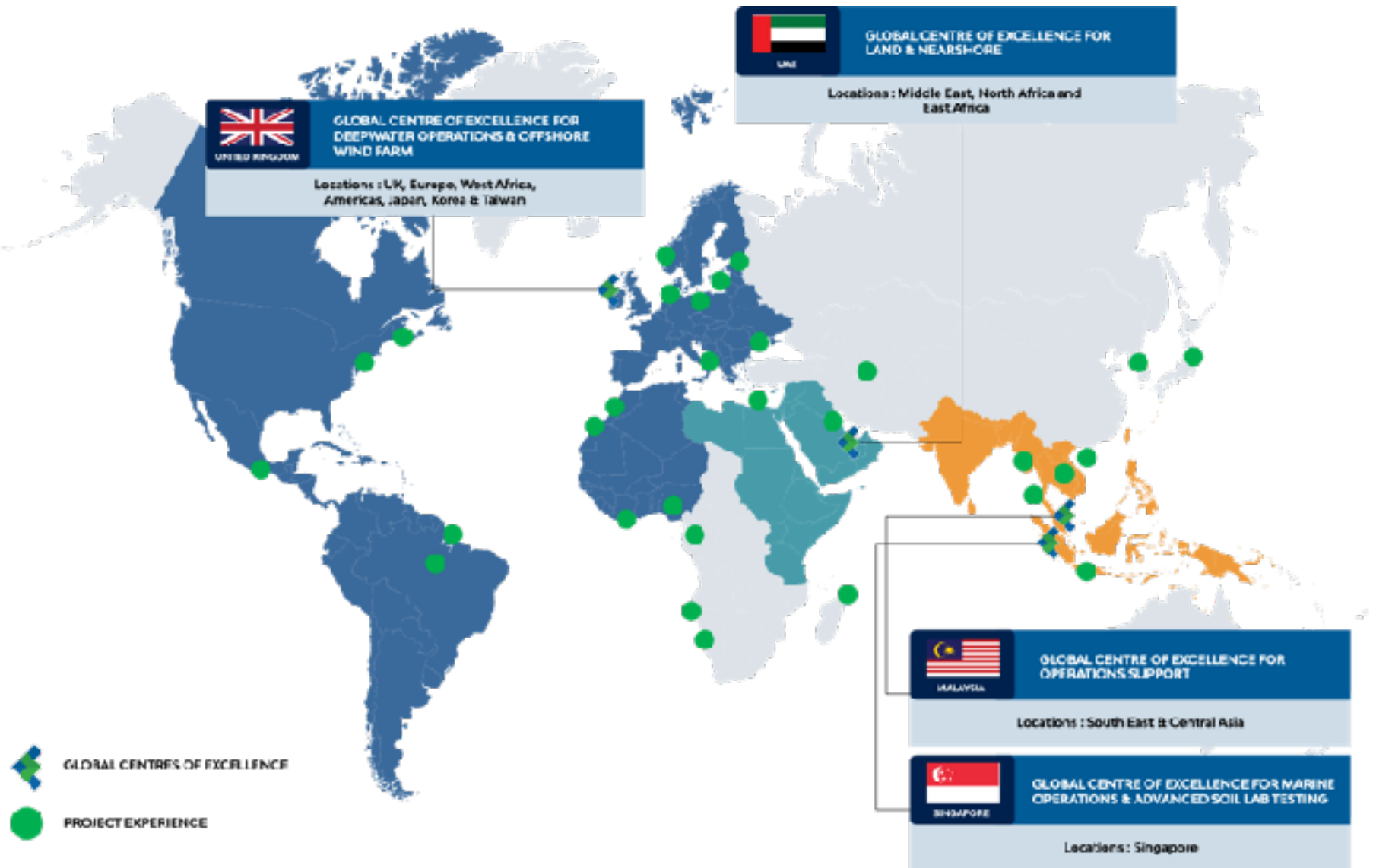
**350++**  
Staffs

## OUR INDUSTRIES

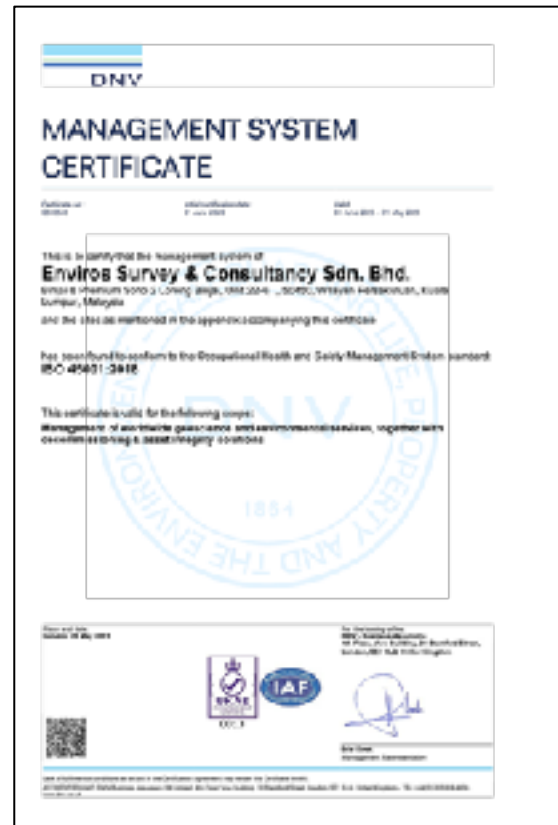


## OUR LOCATIONS

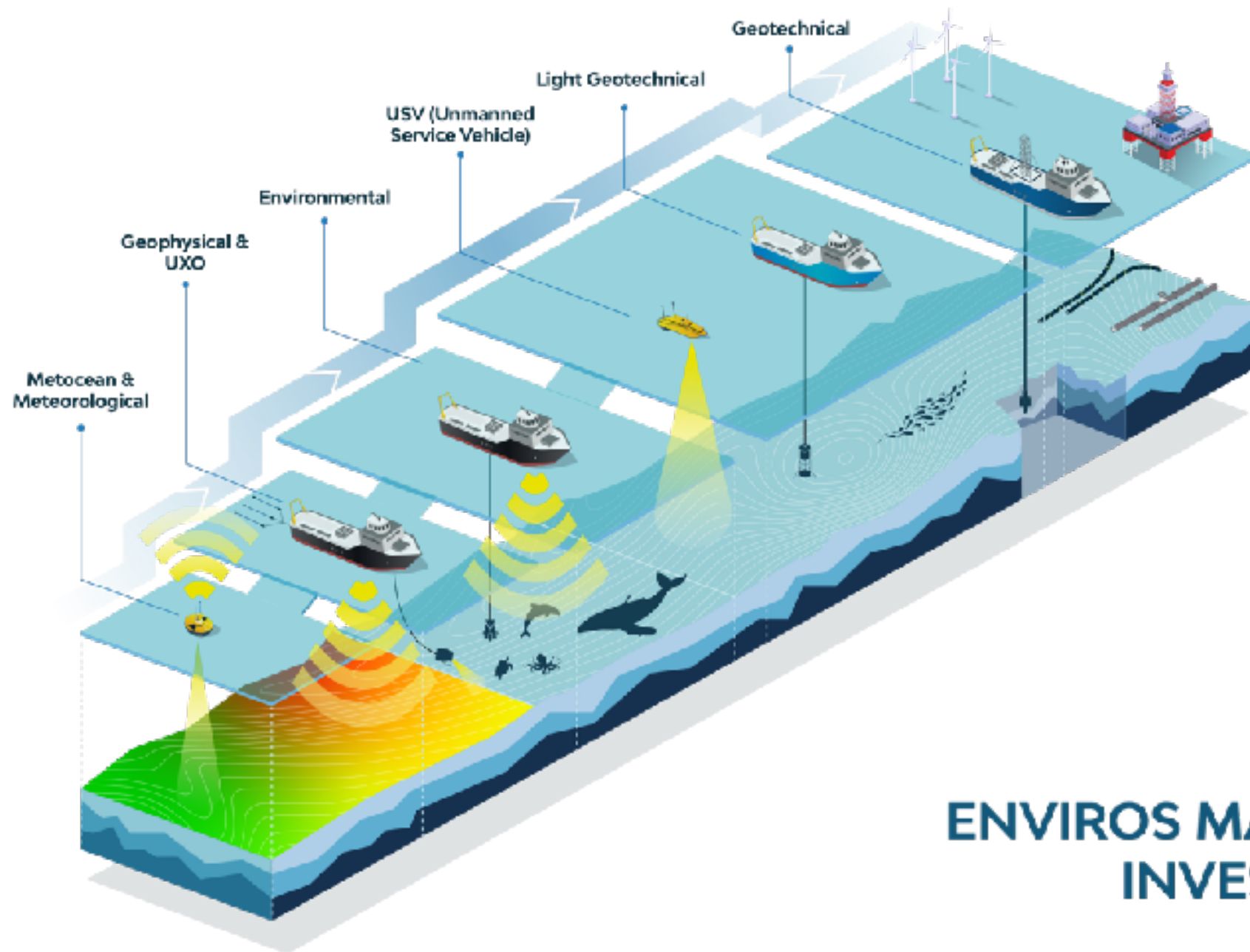
Enviros with offices/partners in Africa, Americas, Europe and Asia Pacific are well placed with global network, business development and project management to provide environmental, metocean and G&G services internationally.

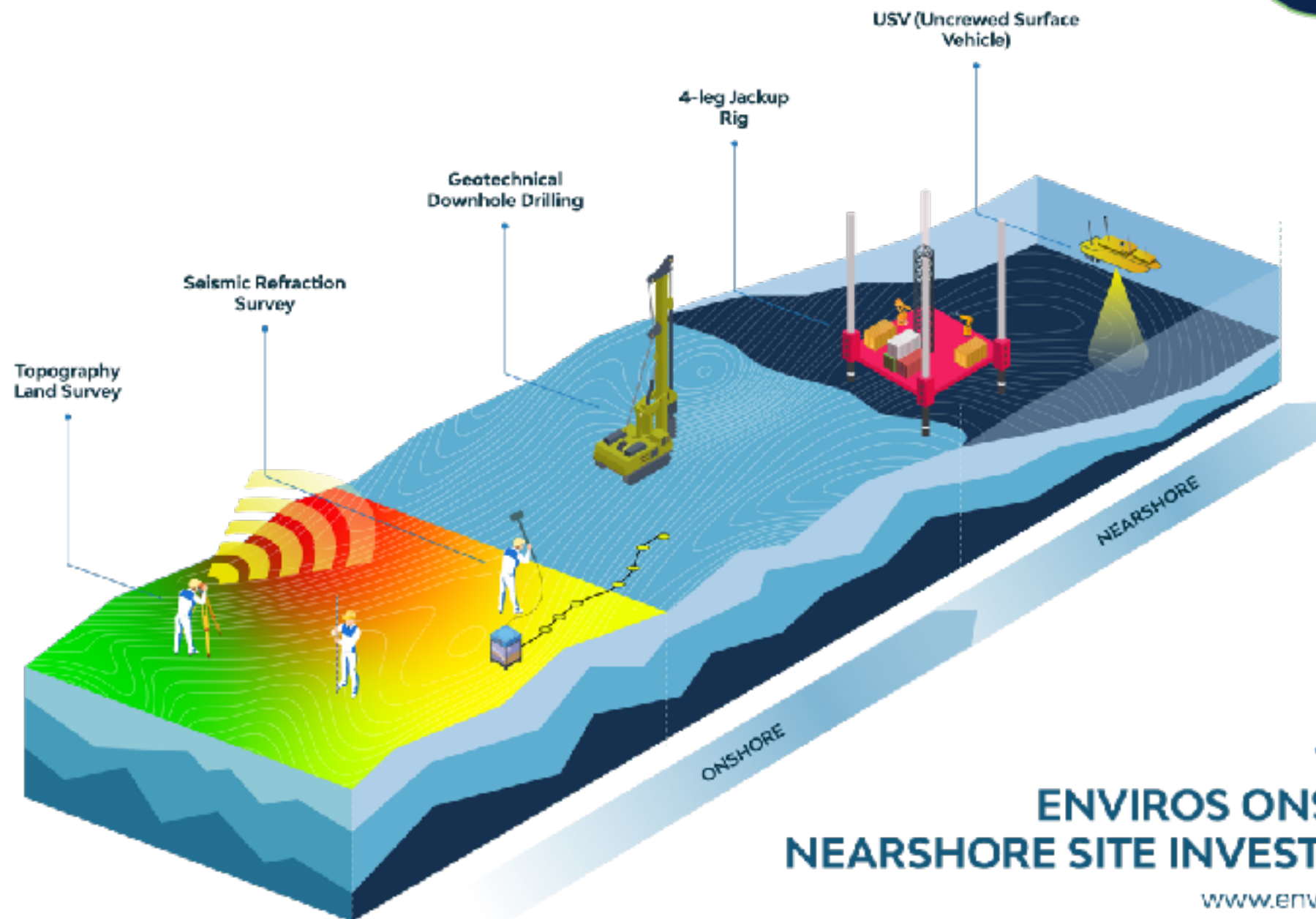


# INDUSTRY CERTIFICATIONS AND INTEGRATED MANAGEMENT SYSTEM









 **ENVIROS ONSHORE &  
NEARSHORE SITE INVESTIGATION**

[www.envirosgroup.com](http://www.envirosgroup.com)

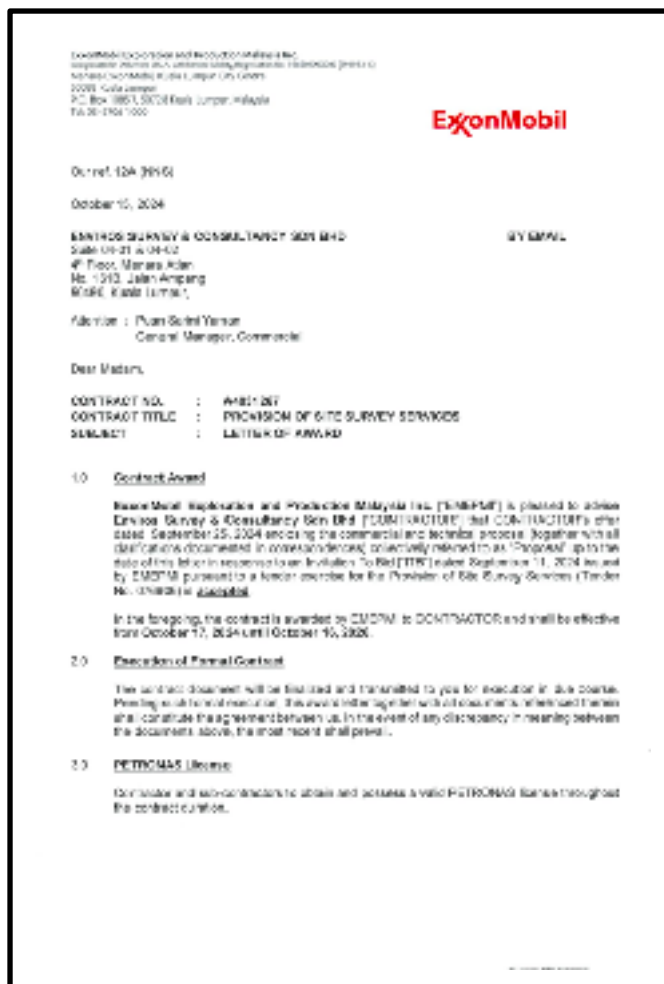
# GLOBAL PROJECTS WITH TIER 1 & 2 CLIENTS



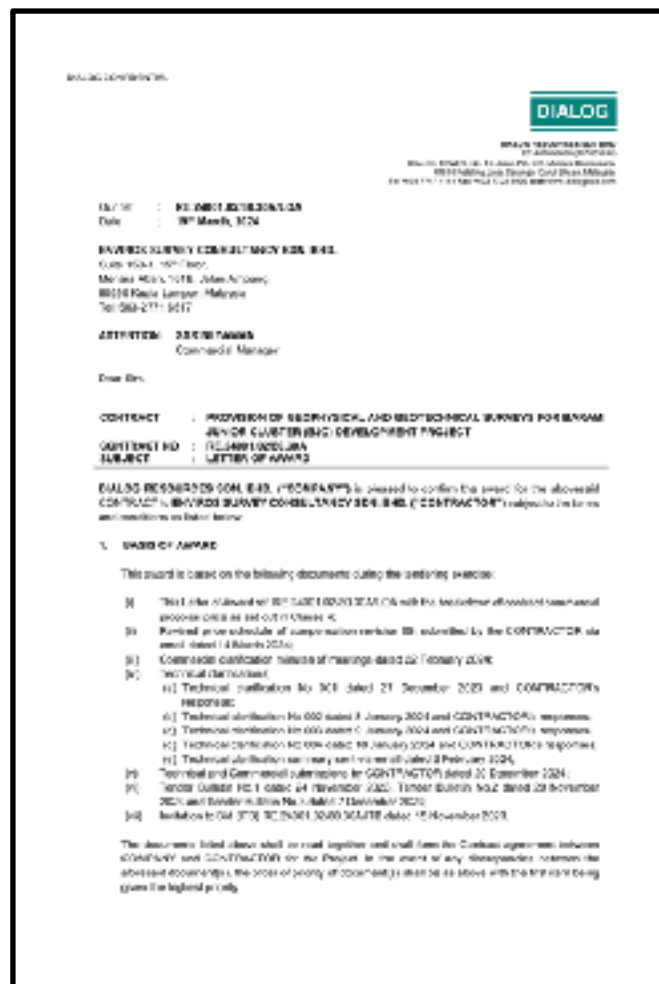




# LONG TERM CONTRACTS



2-year contract with Exxon Mobil



3-year LOA with Dialog (Geophysical & Geotechnical)



5-year PTTEP non-exclusive contract (Geophysical & Geotechnical)



# LONG TERM CONTRACTS

**SK earthon**  
100, 87-89, Level 25, Menara Tropic, 10088 Kuala Lumpur City Center Malaysia Tel: +603 2336 1138

825-KL-PROC-007  
18 March 2025

ENVIROS SURVEY & CONSULTANCY SDN. BHD.  
SUITE 84, 4TH FLOOR, MENARA ALIAN  
1118 JALAN AMPANG  
50450 KUALA LUMPUR

Attention: **BICHO ALFI EYAHIN BIN MOHD ASH**  
CEO

Dear Sir,

CONTRACT NO/TITLE : SKEQITB00126, PROVISION OF GEOPHYSICAL SITE SURVEY SERVICES FOR SKEO  
CONTRACT NO/TITLE : SKEQITB00127, PROVISION OF GEOTECHNICAL (SOIL BORING) SERVICES FOR SKEO  
SUBJECT : LETTER OF AWARD ("LOA")

**1. CONTRACT AWARD**  
This letter constitutes SK EARTHON CO. LTD. ("COMPANY") notice of award to ENVIROS SURVEY & CONSULTANCY SDN. BHD. ("CONTRACTOR") for its PROVISION OF GEOPHYSICAL SITE SURVEY SERVICES FOR SKEO & PROVISION OF GEOTECHNICAL (SOIL BORING) SERVICES FOR SKEO ("CONTRACTS") subject to the terms and conditions as set out in this LOA.

**2. CONTRACT Effective Date and CONTRACT Duration**  
This CONTRACT shall be effective from the date of letter of Award ("Effective Date") and shall remain in effect until all work is complete.

**3. Applicable Documents / Correspondences**  
The LOA together with the following documents shall constitute as binding documents between the COMPANY and the CONTRACTOR pending the execution of the formal CONTRACT:

**3.1 From COMPANY**

- The COMPANY's Invitation-to-Bid (ITB) Document ITS00026 & ITS00027 issued to tender dated 20 January 2025 and all bulletins and clarifications thereafter.

**3.2 From CONTRACTOR**

- Tender Proposal (Technical and Commercial) submission received on 11 February 2025 and all responses to COMPANY's bulletins and clarifications thereafter.
- Techno-Commercial Clarification Meeting ("TCM") No. 1 Minutes of Meeting dated 21 March 2025.
- Revised Commercial Proposal submitted on 25 March 2025.

In the event of any discrepancy between the documents noted above, the COMPANY shall determine which document shall prevail.

2-year + 1 year contract with  
SK Earthon

Design/Drawings by PTTEP Sarawak Oil Limited (CPOC)  
**CPOC**  
CPOC-SSP-24-1125549  
21 November 2024

Matthew Hubson  
Chief Operating Officer

ENVIROS SURVEY & CONSULTANCY SDN. BHD.  
Suite 401, 4th Floor, Menara Alfan,  
1118 Jalan Ampang,  
50450 Kuala Lumpur,  
Malaysia

BY EMAIL

Dear Sir,

CONTRACT TITLE : PROVISION OF OFFSHORE WEATHER FORECAST SERVICES  
CONTRACT NO : 500005104  
SUBJECT : LETTER OF AWARD ("LOA")

**1. CONTRACT AWARD**  
This letter serves to confirm the award by CARIGALI-PTTEP OPERATING COMPANY SDN. BHD. (hereinafter referred to as "COMPANY") of the above-mentioned Contract to ENVIROS SURVEY & CONSULTANCY SDN. BHD. (hereinafter referred to as "CONTRACTOR") to be referred to as Contract No. 5000001104 with Effective Date on 1 December 2024 (hereinafter referred to as "CONTRACT") and shall continue to be in full force and effect for a period of three (3) years from the Effective Date. The COMPANY shall have the right to extend the CONTRACT at its own discretion for a period of up to one (1) year.

**2. APPLICABLE DOCUMENTS/CORRESPONDENCES**  
This award is made with specific reference and subject always to the following:-

- COMPANY's Request for Quotation No. 5000001104 dated 31 September 2024 ("REQ");
- CONTRACTOR's Technical and Commercial Bid Proposals dated 10 September 2024;
- Minutes of Techno-Commercial Clarification Meeting between COMPANY and CONTRACTOR dated 2 November 2024, including all agreements and confirmations made therein; and

LMA CPOC-SSP-24-1125549  
Page 1 of 8

2-year contract with CPOC  
(Offshore weather forecast  
services)

Design/Drawings by PTTEP Sarawak Oil Limited (PTTEP)  
**PTTEP**  
PTTEP SARAWAK OIL LIMITED  
100, 87-89, Level 25, Menara Tropic,  
10088 Kuala Lumpur City Center  
Tel: +603 2336 1138

PTTEP SARAWAK OIL LIMITED  
100, 87-89, Level 25, Menara Tropic,  
10088 Kuala Lumpur City Center  
Tel: +603 2336 1138

REFERENCE NO. MY-0014-12/FUL-0275  
Date : 12th February 2025

ENVIROS SURVEY & CONSULTANCY SDN. BHD.  
SUITE 84, 4TH FLOOR, MENARA ALIAN  
LOT 3-1-13,  
First Floor, Wisma Rantau,  
Jalan 54/55, Rantau Town Centre,  
83300 Kuala Lumpur  
Wilayah Persekutuan.

Attention: **SARIN YAMAS**  
(General Manager, Commercial)

Dear Sir,

CONTRACT NO : PTTEP00049-B  
CONTRACT TITLE : PROVISION OF SHALLOW WATER GEOPHYSICAL SITE INVESTIGATION SERVICES FOR PTTEP MALAYSIA SARAWAK OPERATIONS  
SUBJECT : LETTER OF AWARD ("LOA")

This letter constitutes PTTEP SARAWAK OIL LIMITED ("COMPANY") notice of award to ENVIROS SURVEY & CONSULTANCY SDN. BHD. ("CONTRACTOR") for the PROVISION OF SHALLOW WATER GEOPHYSICAL SITE INVESTIGATION SERVICES FOR PTTEP MALAYSIA SARAWAK OPERATIONS subject to the terms and conditions as set out in this LOA.

**1. CONTRACT DOCUMENTS**

- Pending execution of a formal contract, the documents listed below ("CONTRACT"), read together shall constitute a binding contract between the COMPANY and the CONTRACTOR:  
(a) This LOA dated 12th February 2025. Ref No: MY-0014-12/FUL-0275  
(b) COMPANY's ITB Document dated 6 September 2024 and any subsequent revisions, clarifications, and correspondences; and  
(c) CONTRACTOR'S Bid and Commercial Proposal dated 25 September 2024, and any subsequent revisions, clarifications, and correspondence agreed and accepted mutually by COMPANY and CONTRACTOR.
- The documents listed above shall be read and construed as a whole. In the event of any ambiguity, inconsistency, or conflict between the provisions in the documents forming the CONTRACT, the documents shall, to the extent of such ambiguity, inconsistency or conflict, be construed in the following order of priority listed above.

Reference No. MY-0014-12/FUL-0275

2-year contract with PTTEP  
(Geophysical)



# LONG TERM CONTRACTS



2-year + 1-year contract with  
Petronas CCS business



2-year + 1-year contract with  
Petronas Suriname





# GLOBAL EXPANSION STRATEGY – CURRENT PRESENCE





# GLOBAL EXPANSION STRATEGY – SHORT-TERM TARGETS







## Positioning our footprint in Middle-East region to diversify revenue streams and access untapped energy projects opportunities



### Vertical expansion in new segments

- Expanding service offerings in land and nearshore geotechnical capabilities
- Tapping UAE's growing energy market



### Opportunistic acquisition new segments

- Exploring a potential acquisition of an established geotechnical company with a renowned Center of Excellence for laboratory and field testing
- Immediate operational capability through pre-existing licenses and certifications required to operate in the UAE



### Leveraging In-Country Value (ICV)

- Using existing ICV status to strengthen tender bids and fast-track contract awards
- Enhanced eligibility for large-scale projects through local partnerships, adding credibility and market advantage

## OWF ACTIVITIES

New developments and innovations include UXO surveys using gradiometer arrays, high-speed data transfer, systems to allow onshore processing and geohazard reporting from our Kuala Lumpur centre of excellence. Sustainability is considered to be a key target for Enviros with new equipment and using fuel efficient eco-friendly modern vessels.

Vessels benefit from high-speed data transfer and are equipped with a full spread of analogue and digital survey equipment, including UHRS, MBES, SSS, SBP, MAG & GRAD. They also offer suitable accommodation for a full acquisition & processing team, Client Representatives, Fisheries Liaison Officer and MMOs.

Innovative and flexible solutions using 3D ultra high resolution acquisition and processing together with autonomous USV's and AUV's can be offered.

Other services include metocean deployments (including FLIDAR wind and current measurements), environmental studies and geotechnical site investigations are offered. 3D seismic geohazard assessments and geological models can also be provided by ENVIROS as desktop studies on existing data or as part of new acquisition campaign together with a range of other consultancy services.





## EUROPEAN EXPERIENCE IN RENEWABLES

- From 2021, Enviros carried out two key geophysical site investigation surveys for European offshore wind farm developments with a reconnaissance survey carried out in the French part of the English Channel in the Bay of Seine and one of the largest ever surveys in the UK North Sea on the Outer Dowsing OWF.
- Over 13,000-line kms of detailed UHR geophysical survey plus UXO and seabed geotechnical were contracted to Enviros over a new Round 4 licensed seabed area of 500 km<sup>2</sup>.
- Recent project ( pre - jack up construction survey) with C-wind working on behalf of Scottish Power Renewables.
- SSE & EQUINOR project in UK North Sea- 2600-line km of habitat and sea-bed mapping survey off the Dogger Bank. Plus, UXO survey and options of further 5300-line km of export cable corridor survey. Nearshore surveys using USV and drone surveys.
- Developments also include high-speed data transfer systems to allow transfer of daily deliverables and onshore QC and reporting in reporting office.
- Scopes of work are overseen and supported by operations and project management teams on a day-to-day basis. All final data processing, interpretation and reporting is carried out in Enviros Data Centre.
- Enviros has been awarded the seabed mapping/site characterisation contract by the Norwegian Petroleum Directorate (NPD) to map Utsira Nord including 4750kms of high specification UHR in 2<sup>nd</sup> Q 2023.





# OUR EXPERIENCE

SOME OF OUR MAIN PROJECTS



MAIN PROJECT 1 - RENEWABLE ENERGY  
PROVISION OF SURFACE GEOCHEMICAL SURVEY & ANALYSIS FOR PM524

Period  
**MAY 2023 to OCT 2023**

Vessels  
**LANPAN 21**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)  
**posco**

Project Location  
**Block PM524, Malay  
Basin, Malaysia**



## MAIN PROJECT 2 - RENEWABLE ENERGY PROVISION OF GEOPHYSICAL SURVEY FOR ENQUEST OPERATIONS

Period  
**OCT 2022 TO FEB 2023**

Vessels  
**MYV CAMELLIA**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)



Project Location  
**BLOCK SELIGI OIL FIELD /  
PMB(E) & PM409,  
MALAYSIA**





## MAIN PROJECT 3 - RENEWABLE ENERGY GEOPHYSICAL SERVICES IN KOREA

Period  
**APR 2023 to AUG 2023**

Vessels  
**ENVIROS SURVEYOR**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)



Project Location  
**EAST COAST KOREA**

One of the highest specification geophysical surveys to be carried out offshore South Korea by Enviros Korea acquiring ultra high resolution seismic and seabed mapping survey with MBES, SSS, SBP and MAG data using the modern (2021) dedicated survey and light geotechnical Korean registered vessel, MV Enviros Surveyor. Local content and security of data is paramount and Enviros Korea has established a dedicated processing and reporting data centre in Busan to ensure that all data are retained in country together with all interpretation and reporting.





## MAIN PROJECT 4 - OIL & GAS GEOHAZARD SURVEY IN SURINAME

Period  
**2020**

Role on Project  
**MAIN CONTRACTOR**

Project Location  
**COAST OF PARAMIBO,  
SURINAME**

Vessels  
**KNOCKOUT P**

Client (Owner)



 Paramibo  
Coast



In 2020, Enviros successfully completed a geohazard site survey, Block 52 offshore Suriname, for Petronas including full geohazard assessment, prior to the commencement of exploration drilling activities. Enviros commissioned QVID inspection and mobilised a DP2 vessel, the 'Knockout P', in Trinidad & Tobago with high specification single pass multibeam, analogue geophysics spread, 2DHR multichannel seismic and seabed coring spread to meet the geohazard survey objectives in water depths greater than 400m.

Project was completed on schedule just prior to full lock down in Suriname due to COVID 19. Quarantine and border closure /travel restrictions imposed by Trinidad & Tobago authorities had impact on the demobilisation but all processing/interpretation, soils analyses and final geohazard assessment report-





## MAIN PROJECT 5 - OIL & GAS GEOTECHNICAL CORING, SOIL ANALYSES & ENGINEERING IN MEXICO

Period  
**Q3 2021**

Vessels  
**LAGUNA AZUL**

Role on Project  
**GEOTECHNICAL  
SERVICES**

Client (Owner)



Project Location  
**BLOCK 12, CAMPECHE  
BAY, MEXICO**

PEMEX plans to drill on or about 3rd quarter of 2021. The scope of work included one exploration well located in Block 12, Campeche Bay, offshore Mexico, awarded to and operated by PEMEX.

Enviros has been contracted to provide PEMEX with geotechnical services including QC of the coring activities, descriptions and onboard soils classification tests and onshore laboratory soils testing. Cores were collected using a 6m piston corer system at designated locations within the one exploration site survey area.

The purpose of the subsurface sampling was to obtain geotechnical information about soils in site and to supplement the geophysical data to support geohazard/conditions assessment necessary to meet Mexican Gulf offshore drill permitting requirements. The onboard tests evaluated the compressional and shear strength of the soil, which results yields a glance of soil behaviour that can affect the drilling operations and anchoring conditions.



## MAIN PROJECT 6 - RENEWABLE ENERGY GEOPHYSICAL SERVICES FOR ZEPHYRUS OWF IN FRANCE

Period

**JUL 2021 to FEB 2022**

Vessels

**GLOMAR VANTAGE**

Role on Project

**MAIN CONTRACTOR**

Client (Owner)



**RWE**

Project Location

**BAY OF SEINE,  
CHERBOURG, FRANCE**



Enviros was contracted to carry out a geophysical and seabed mapping survey on a regional basis together with UXO and shallow geotechnical coring. Work was carried out for joint clients TotalEnergies and RWE Renewables offshore Cherbourg, France in the Bay of Seine. Glomar Vantage was mobilised for the reconnaissance site investigation survey project in July 2021.





## MAIN PROJECT 7 - RENEWABLE ENERGY GEOPHYSICAL SERVICES FOR OUTER DOWSING OWF IN UK

Period  
**AUG 2021 to MAY 2022**

Role on Project  
**MAIN CONTRACTOR**

Project Location  
**EAST COAST UK**

Vessels  
**GLOMAR VANTAGE  
GUARD CELENA  
CURTIS MARSHALL**

Client (Owner)



Green  
Investment  
Group

One of the largest surveys ever carried out offshore UK over the winter months with more than 13,000 line kms of geophysics survey covering 500sq kms over the Outer Dowsing Offshore Wind Farm licence block. Enviros provided a multiple vessel solution with three vessels working on the project on different phases from August 2021 through to March 2022. High speed data transfers allowed data QC and processing to be carried out both offshore and also in Enviros's reporting centre in Kuala Lumpur, Malaysia. UXO work was also contracted together with ALARP certification before carrying out light geotechnical coring at 50 locations. Onshore soils testing was carried out with integrated data interpretation and reporting.



East Coast  
UK

## MAIN PROJECT 8 - RENEWABLE ENERGY GEOPHYSICAL SURVEY FOR EAST ANGLIA ONE OWF IN UK

Period  
**JUN 2022 to AUG 2022**

Role on Project  
**SURVEY CONTRACTOR**

Project Location  
**EAST COAST UK**

Vessels  
**GUARD CELENA**

Client (Owner)



Enviros was contracted by CWIND to carry out subsea inspection and debris clearance surveys around existing wind turbine installations in advance of maintenance/construction activities from large installation jack up barge. Work was carried out using Enviros's long term chartered survey vessel, MV Guard Celena and comprised very high resolution bathymetry and seabed imagery to map existing boulders and debris in the vicinity of each turbine location.





## MAIN PROJECT 9 - RENEWABLE ENERGY GEOPHYSICAL SERVICES FOR DOGGER BANK IN UK

Period

**AUG 2022 through to  
JUL 2023 (including options)**

Role on Project

**MAIN CONTRACTOR**

Project Location

**DOGGER BANK, UK  
NORTH SEA**

Vessels

**GUARD CELENA**

Client (Owner)



A large geophysics habitat mapping survey has been awarded to Enviros by SSE Renewables and partners EQUINOR. Work comprises over 2600kms of geophysics environmental habitat mapping surveys over the Gt Groen Site plus options of export route corridors. Work is to be carried out primarily from the dedicated survey vessel, Guard Celena, which was mobilised to Dogger Bank in August 2022. An Unmanned Surface Vehicle (USV) will be utilised for the nearshore section of each ECR option together with aerial drones for topographical mapping.



## MAIN PROJECT 10 - OIL & GAS DEEP WATER ENVIRONMENTAL BASELINE STUDY IN NAMIBIA

Period  
**Q4 2022 to Q2 2023**

Vessel's  
**KOMMANDOR IONA**

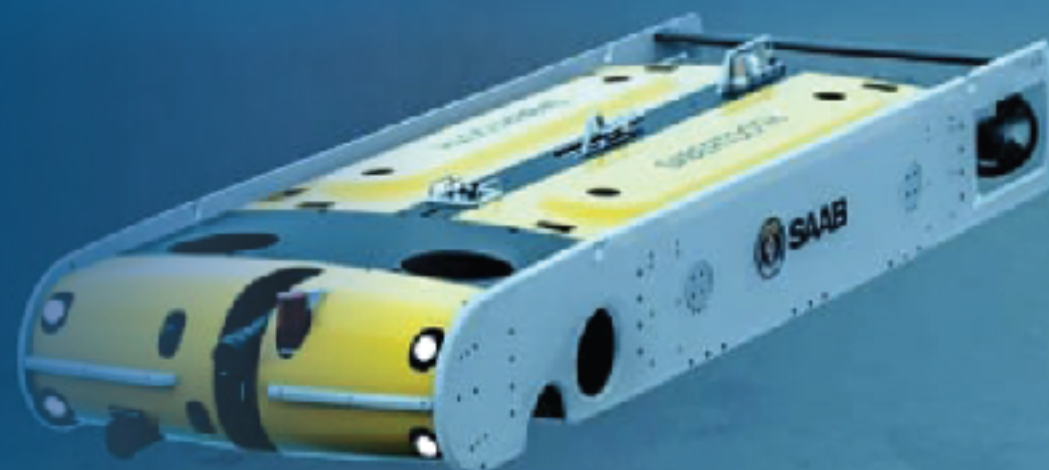
Role on Project  
**MAIN CONTRACTOR**

Client (Owner)

Project Location  
**NAMIBIA**



A deep water Environmental Baseline Study (EBS) has been awarded by GALP to Enviros and will be carried out offshore Namibia in water depths from 1700m to 2100m. Work comprises initial desk study phase, AUV bathymetry survey over a 4km x 4km area using deep water SAAB Sabertooth system to provide high resolution MBES bathymetry, HIFAS sonar imagery and Sub bottom profiling data. The AUV will be mobilised from Brazil in December 2022 and deployed from specialist vessel, Artemis Angler, with onboard QC and processing. The environmental sampling and video transects will then be carried out as a separate phase in Q1 2023 with a deep water ROV system providing high resolution visual transects together with full range of water sampling, sediment/benthic sampling and analyses. Environmental analyses and reporting will be carried over a period of 4 months after completion of fieldwork. DP2 Vessel, Topaz Resolve, will be utilised for the EBS phase of the work.





## MAIN PROJECT 11 - RENEWABLE ENERGY GEOPHYSICAL SERVICES FOR UTSIRA NORD OWF IN NORWAY

Period  
**APR 2023 to AUG 2023**

Vessels  
**SUNNY LADY**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)

Project Location  
**UTSIRA NORD, NORWAY**



Enviros has been awarded the contract by the Norwegian Petroleum Directorate (NPD) to map the shallowest strata beneath the seabed of Utsira Nord with the aim of identifying the best placement for wind turbines. Geophysical services are being carried out by Enviros with project management support from ROSS Offshore A/S and using the latest technology with the Sunny Lady as one of the most modern and 'green and eco friendly' vessels operating in the survey sector. Critical data sets for bathymetry, acoustic backscatter and water column data are being collected by the Kongsberg MBES (multibeam echosounder) together with ultra high resolution seismic (UHR), sub-bottom profiler (SBP) side-scanning sonar (SSS), and magnetometer (MAG) datasets.





MAIN PROJECT 12 - RENEWABLE ENERGY  
PROVISION OF ENVIRONMENTAL SURVEY PYITHARYAR INTEGRATED PROJECT (“PIP”)

Period  
**MAR 2024 to MAY 2024**

Vessels  
**SEACOVE PEARL**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)

Project Location  
**Block A-6, Western  
Ayeyarwady Basin  
(Western Myanmar)**



*MPRL E&P Pte Ltd.*





MAIN PROJECT 13 - OIL & GAS  
**NIGERIA GEOTECHNICAL SITE INVESTIGATION 2024**

Period  
**2024**

Vessels  
**MV DOLPHIN GEO**

- Nigeria Geotechnical Site Investigation Directorate - Utsira Nord Songhai - 6 x 30m/120m boreholes/P-CPT/sampling
- Anyala East, Central and West - 10 x 30m/120m boreholes/PCPT/

Role on Project  
**GEOTECHNICAL SITE INVESTIGATION**

Client (Owner)



Project Location  
**ANYALA EAST,  
CENTRAL AND WEST**



Anyala East,  
Central and West



MAIN PROJECT 15 - OIL & GAS  
PROVISION OF PRE-INSTALLATION GEOPHYSICAL SURVEY SERVICES

Period  
**JUN 2024 - JULY 2024**

Vessels  
**MASINDRA JEDDAH**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)

Project Location  
**BINDU GAS FIELD,  
OFFSHORE TERENGGANU,  
MALAYSIA**



 Bindu Gas Field





MAIN PROJECT 16 - OIL & GAS  
PROVISION OF GEOTECHNICAL SITE INVESTIGATION SURVEY (GTI) SERVICES

Period  
**MARCH 2024 to MAY 2024**

Vessels  
**GEO MARINER**

Role on Project  
**GEOTECHNICAL SITE  
INVESTIGATION**

Client (Owner)



**PTTEP**

Project Location  
**BLOCK M9, GULF OF  
MOATTAMA, MYANMAR**



Block M9,  
Gulf of Moattama





**MAIN PROJECT 17 - OIL & GAS  
PROVISION OF GEOPHYSICAL & GEOTECHNICAL SURVEY FOR BARAM JUNIOR  
CLUSTER (BJC) DEVELOPMENT PROJECT**

Period  
**MAY 2024 - DEC 2024**

Role on Project  
**MAIN CONTRACTOR**

Project Location  
**SALBIAH & FATIMAH  
FIELD, OFFSHORE  
SARAWAK, MALAYSIA**

Vessels  
**SENGHENG AWESOME  
VANESSA 17, MYY CAMELLIA,  
SELF-ELEVATED DRILLING  
BARGE, SAPURA WIRA**

Client (Owner)

**DIALOG**





MAIN PROJECT 18 - OIL & GAS  
PROVISION OF GEOPHYSICAL SITE INVESTIGATION SURVEY SERVICES

Period  
**MAY 2024 - JUN 2024**

Vessels  
**MYV CAMELLIA**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)



Project Location  
**4 SITES IN OFFSHORE  
TERENGGANU  
(IRAMA NORTH-1,  
BEKANTAN-1, MALONG-1,  
ROSEBAY-1)**



MAIN PROJECT 19 - OIL & GAS  
GTI CAMPAIGN FOR PLEM AND ANCHOR CLUSTER

Period  
**JUL 2024**

Vessels  
**MV GEO SOVEREIGN**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)



Project Location  
**OFFSHORE THAILAND**



**MAIN PROJECT 20 - OIL & GAS****Geotechnical Site Investigation for Blocks G1/61, G2/61, ART, B6/27 and G3/65**

Period  
**AUG 2024 - SEP 2024**

Vessels  
**MV GEO SOVEREIGN**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)



Project Location  
**BLOCKS G1/61, G2/61,  
ART, B6/27 & G3/65,  
OFFSHORE THAILAND**





MAIN PROJECT 21 - OIL & GAS  
PROVISION OF 2D SEISMIC SITE SURVEY FOR NIPPON'S MATOA EXPLORATION CAMPAIGN

Period  
**SEP 2024 - OCT 2024**

Vessels  
**MYY CAMELLIA**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)



Project Location  
**SK10 FIELD, SARAWAK**



**MAIN PROJECT 22 - OIL & GAS**  
**Geotechnical Survey to support design for FSRU and associated pipeline at Bangladesh**

Period  
**AUG 2024 - DEC 2024**

Vessels  
**MV TRINITY SURVEYOR**

Role on Project  
**MAIN CONTRACTOR**

Client (Owner)



Project Location  
**BANGLADESH**





MAIN PROJECT 23- OIL & GAS  
GEOTECHNICAL SURVEY CAMPAIGN IN OFFSHORE LAMONGAN, INDONESIA

Period  
**3rd WEEK AUG 2024**  
(2 weeks)

Vessels  
**MV TRINITY SURVEYOR**

Role on Project  
**GEOTECHNICAL**

Client (Owner)

Project Location  
**OFFSHORE LAMONGAN,  
INDONESIA**



 Offshore Lamongan, Indonesia





MAIN PROJECT 24 - OIL & GAS  
GEOTECHNICAL SURVEY CAMPAIGN IN BAWEAN FIELD, INDONESIA

Period  
**Mid SEP 2024 (2 weeks)**

Vessels  
**MV TRINITY SURVEYOR**

Role on Project  
**GEOTECHNICAL**

Client (Owner)



Project Location  
**BAWEAN FIELD,  
INDONESIA**

 Bawean Field, Indonesia



MAIN PROJECT 25 - OIL & GAS  
GEOTECHNICAL SURVEY CAMPAIGN IN OFFSHORE SULAWESI, INDONESIA

Period  
Early OCT 2024 (3 weeks)

Vessels  
MV TRINITY SURVEYOR

Role on Project  
GEOTECHNICAL

Client (Owner)

Project Location  
OFFSHORE SULAWESI,  
INDONESIA



 Offshore Sulawesi, Indonesia





**MAIN PROJECT 26 - OIL & GAS  
GEOPHYSICAL SURVEY CAMPAIGN IN GULF OF GUINEA, NIGERIA**

Period  
**EARLY NOV 24 (2 MONTHS)**

Vessels  
**JIF ARTEMIS  
ENIGHENO FLORENCE**

AUV  
**TRITON CLASS GEN III**

Role on Project  
**GEOPHYSICAL SITE  
INVESTIGATION**

Client (Owner)



Project Location  
**GULF OF GUINEA,  
NIGERIA - OML112 AND 117**



 Gulf of Guinea,  
Nigeria - OML112 and 117





# MAIN PROJECT 27 - OIL & GAS GEOTECHNICAL SURVEY CAMPAIGN IN GULF OF GUINEA, NIGERIA

Period  
**MID JAN 25 (3 MONTHS)**

Vessels  
**JIF ARTEMIS  
WHISKEY 33**

Role on Project  
**GEOTECHNICAL SITE  
INVESTIGATION**

Client (Owner)  
  
**TotalEnergies**

Project Location  
**GULF OF GUINEA,  
NIGERIA - OML112 AND 117**



 Gulf of Guinea,  
Nigeria - OML112 and 117



MAIN PROJECT 28 - OIL & GAS  
GEOPHYSICAL SURVEY CAMPAIGN IN OFFSHORE TERENGGANU

Period  
**Q4 2024 (2 MONTHS)**

Vessels  
**MYY CAMELLIA**

Role on Project  
**GEOPHYSICAL SITE  
INVESTIGATION**

Client (Owner)  
**ExxonMobil**

Project Location  
**OFFSHORE TERENGGANU**





**MAIN PROJECT 29 - OIL & GAS  
DEEP AND SHALLOW WATER GEOPHYSICAL SURVEY CAMPAIGN USING  
HUGIN AUV AND 2DHR SEISMIC AND CORING, OFFSHORE SURINAME**

Period  
**2 YEARS, WITH 1 YEAR  
EXTENSION OPTION**


Role on Project  
**GEOPHYSICAL**

Project Location  
**CAIMAN, KISKADEE,  
SLOANEA (OFFSHORE  
SURINAME)**

Vessels  
**ARGEO SEARCHER  
HUGIN AUV**

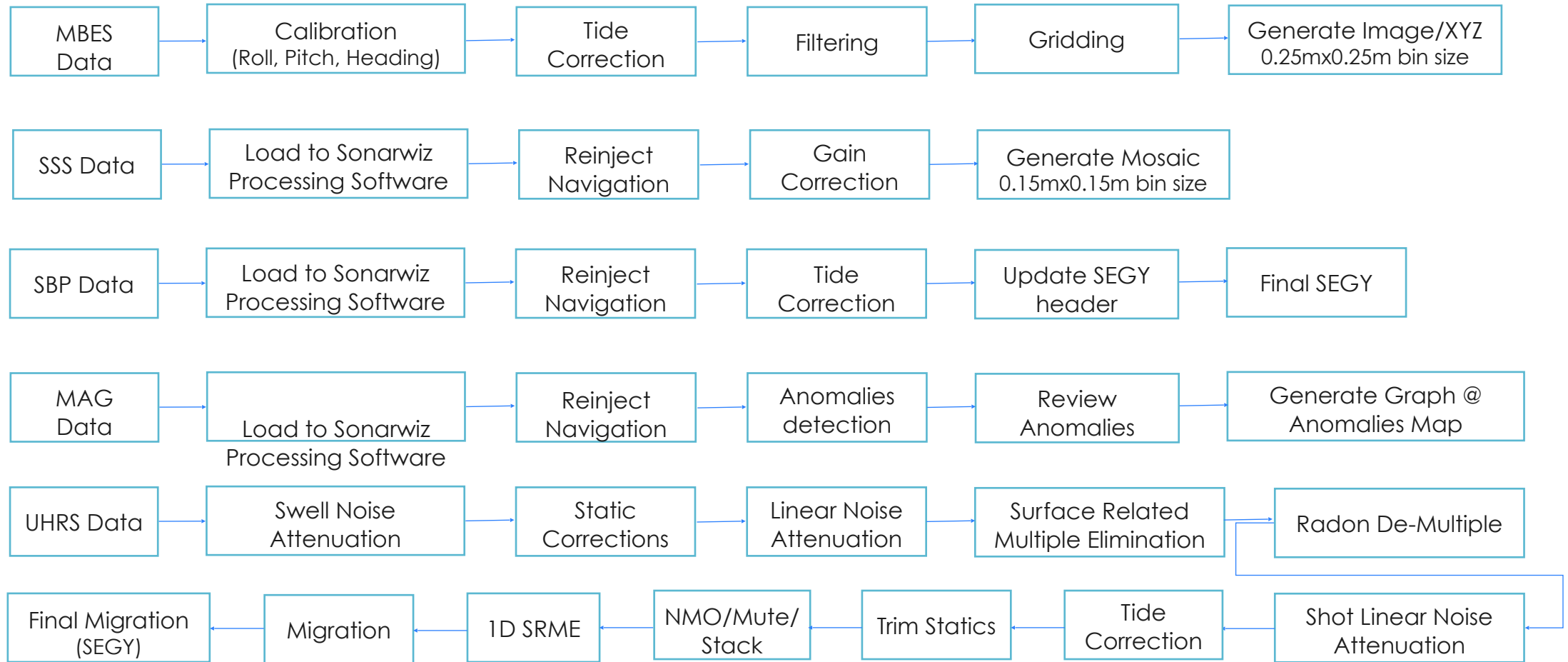
Client (Owner)



 Caiman, Kiskadee,  
Sloanea (Offshore  
Suriname)



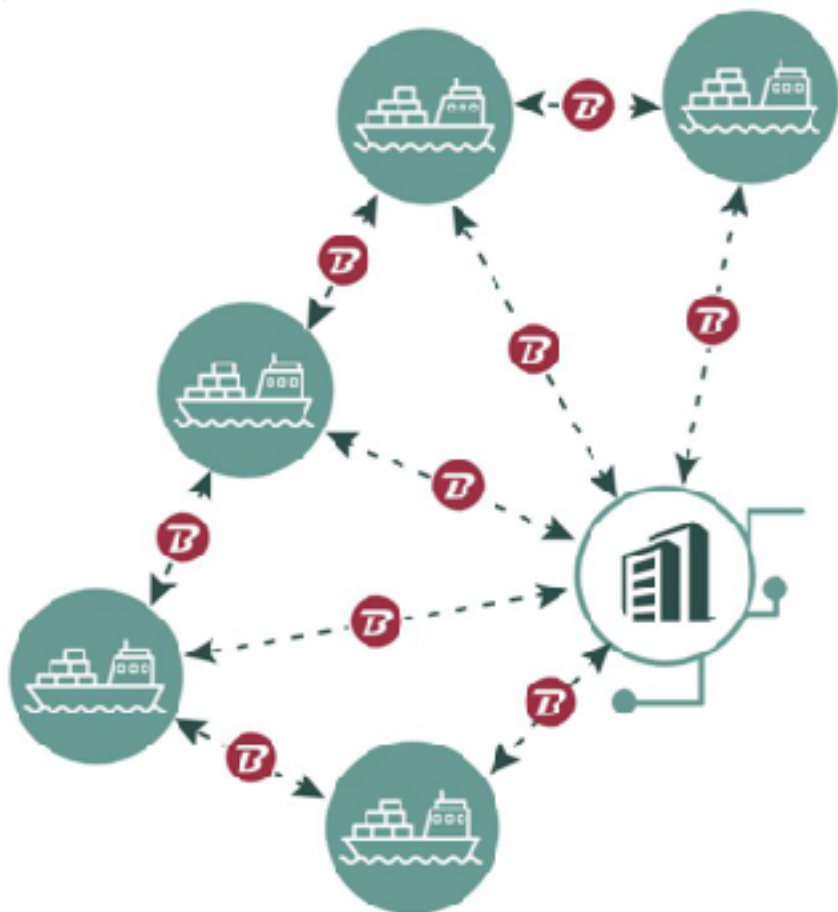
## DATA PREPARATION / PROCESSING











# DATA TRANSFER – BINFER SYNC

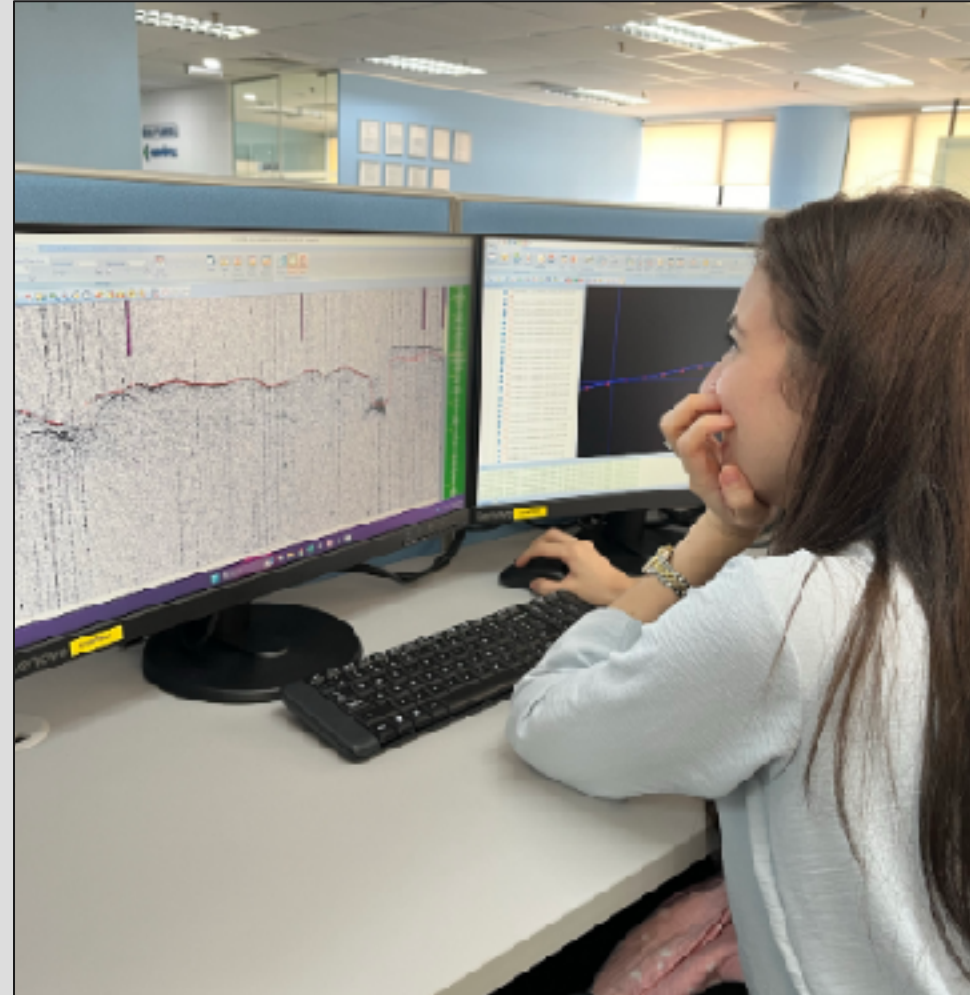
Automated Data Replication & Large File Transfer



## Daily Data Upload

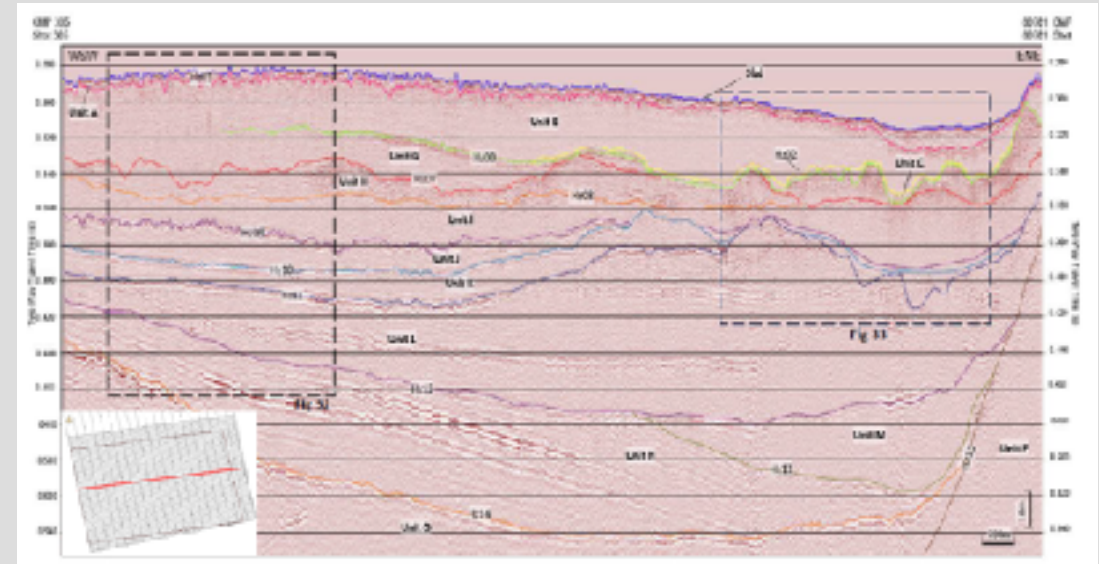
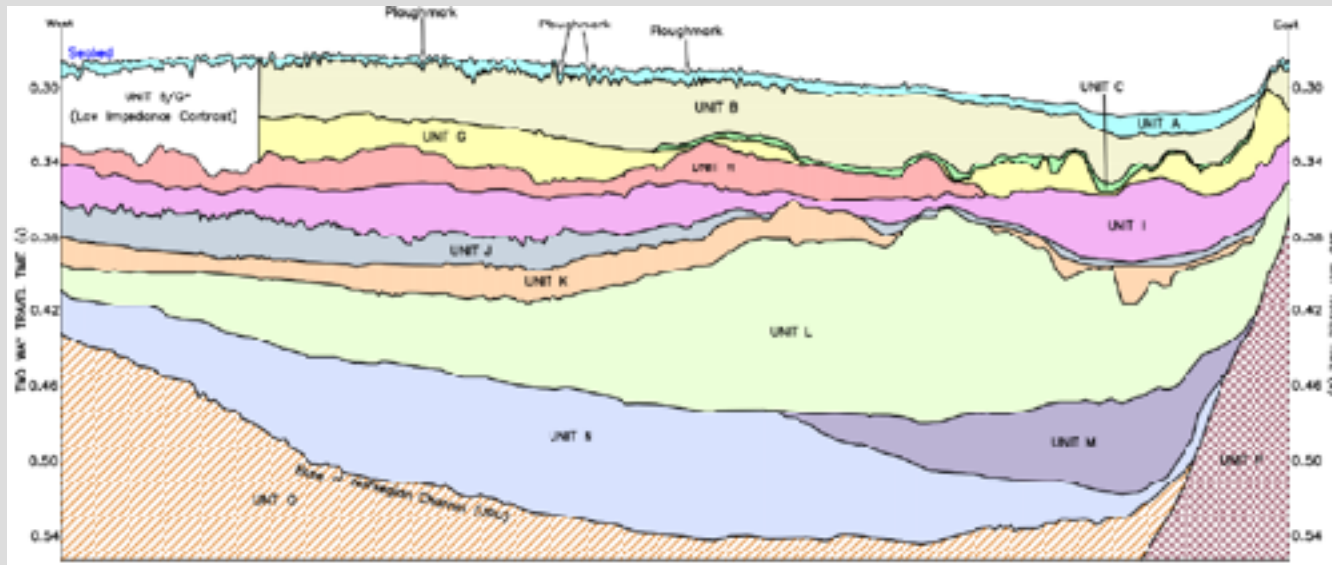
Name ▾	Size	File Type
 01 MBES GEOTIFF.rar	39.8 MB	RAR File
 02 SSS MOSAIC.rar	1.47 GB	RAR File
 03 SBP SEGY.rar	2.11 GB	RAR File
 04 INTERIM UHRS SEGY.rar	602 MB	RAR File
 05 MAGNETOMETER.rar	2 MB	RAR File
 06 SBP SEGY IMAGE.rar	23.3 MB	RAR File

## DATA PROCESSING TEAM - KUALA LUMPUR, MALAYSIA





# UHRs SEISMIC INTERPRETATION



# PLOUGH MARKS FROM MULTIBEAM DATA

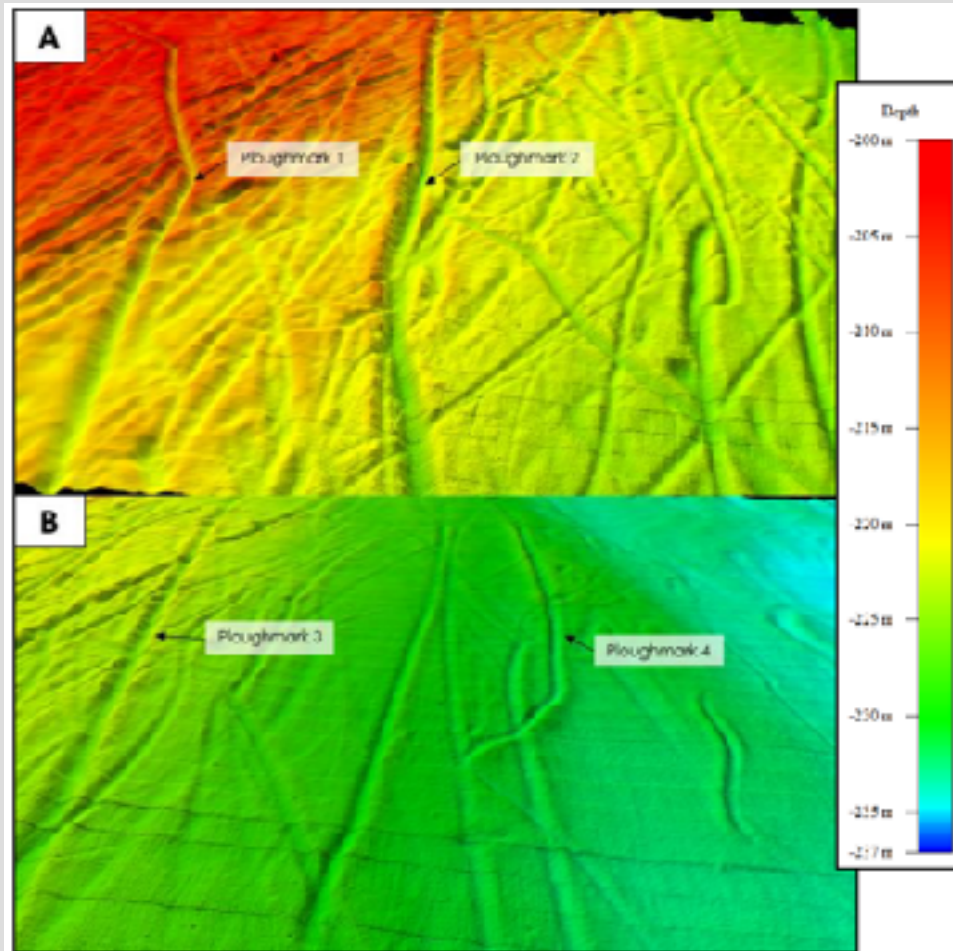
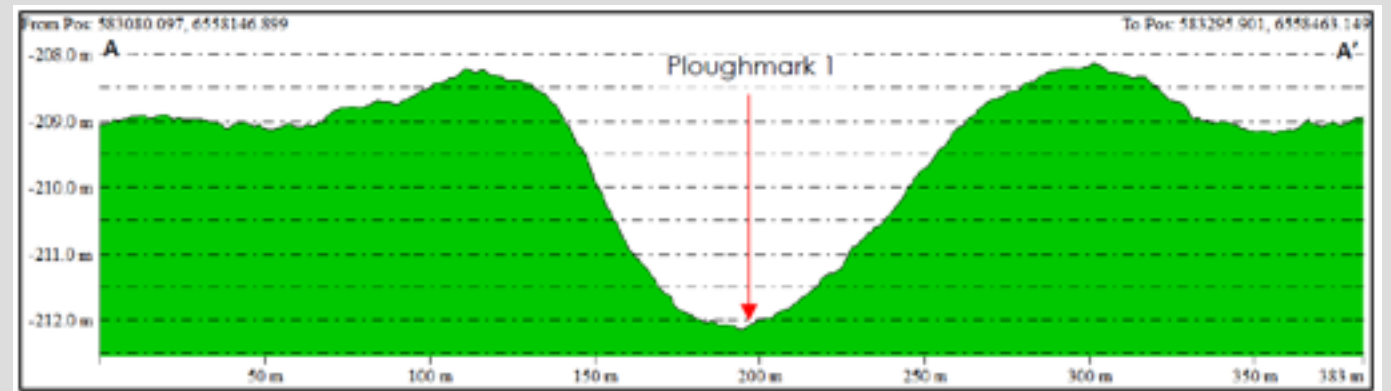
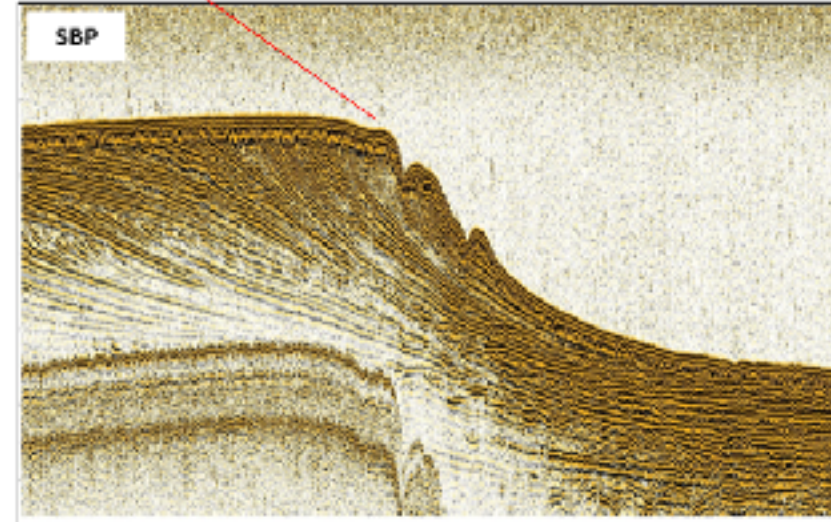
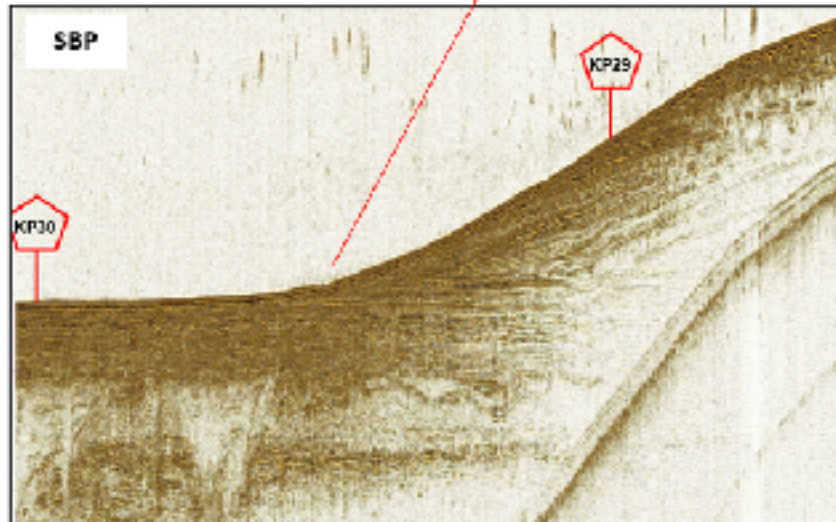
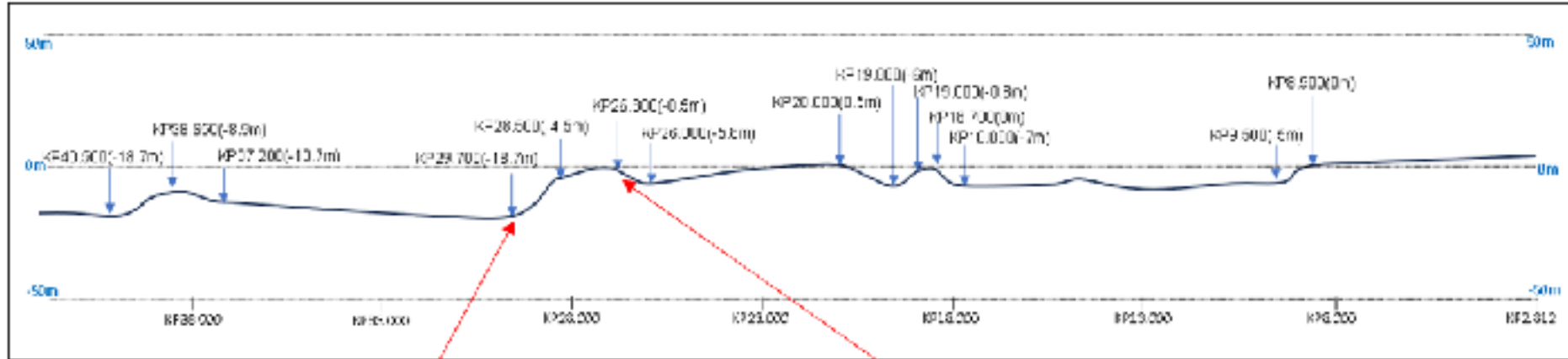


Figure 12 Major ploughmarks observed in SSS mosaic (Top) and 3D view of ploughmarks (A & B)

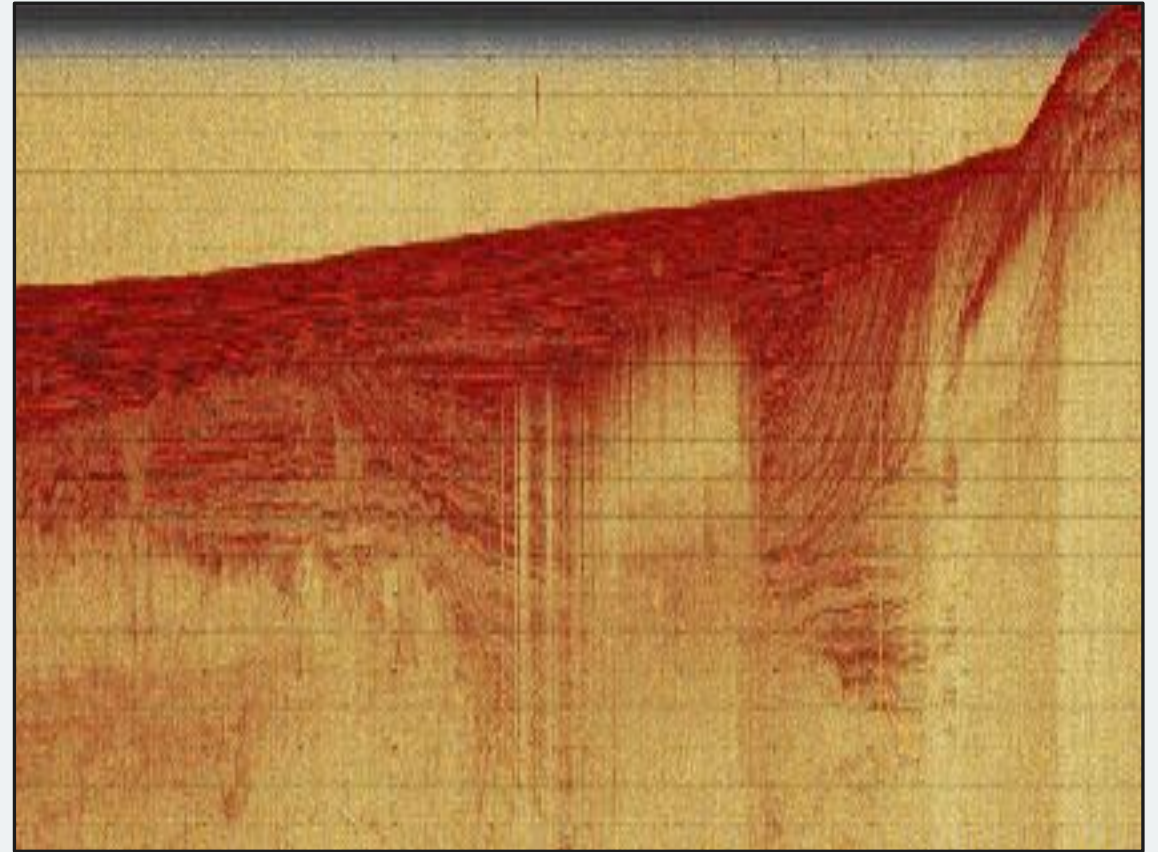
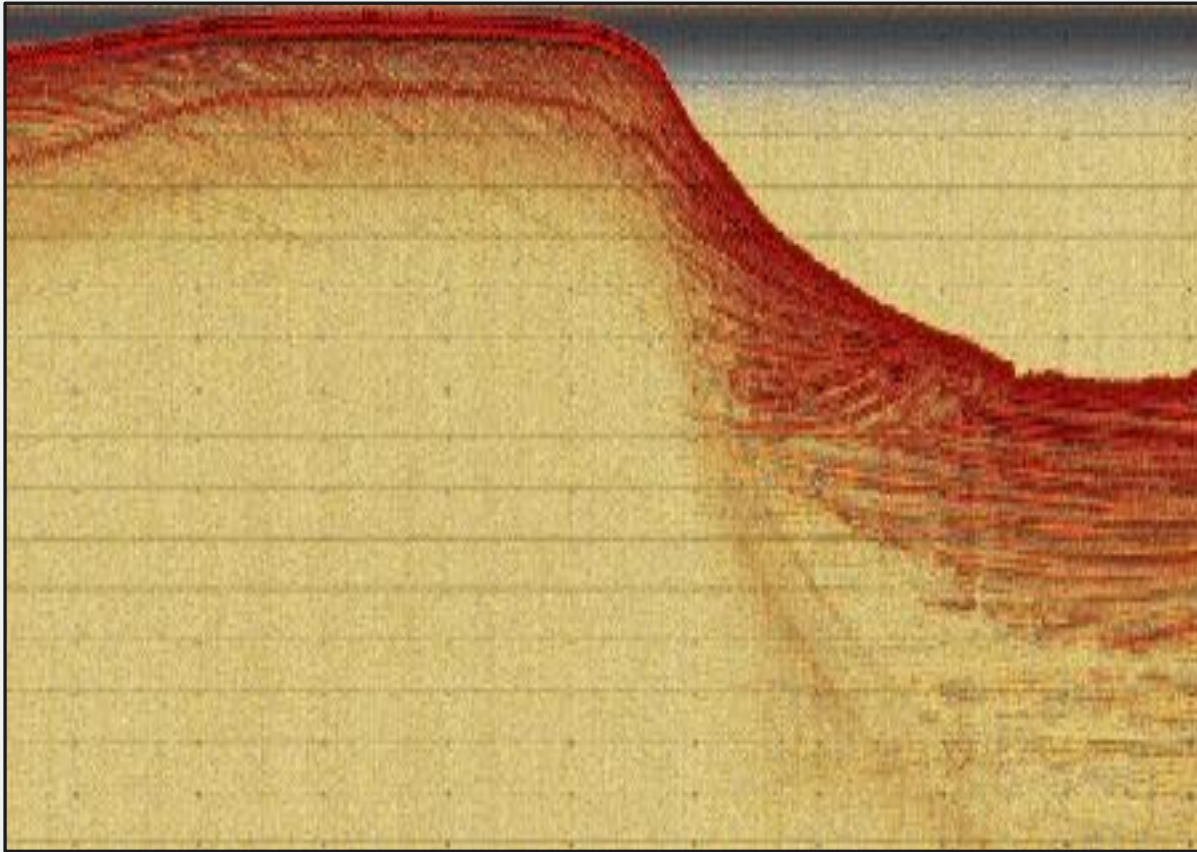




## SEISMIC PROFILE ALONG ROUTE

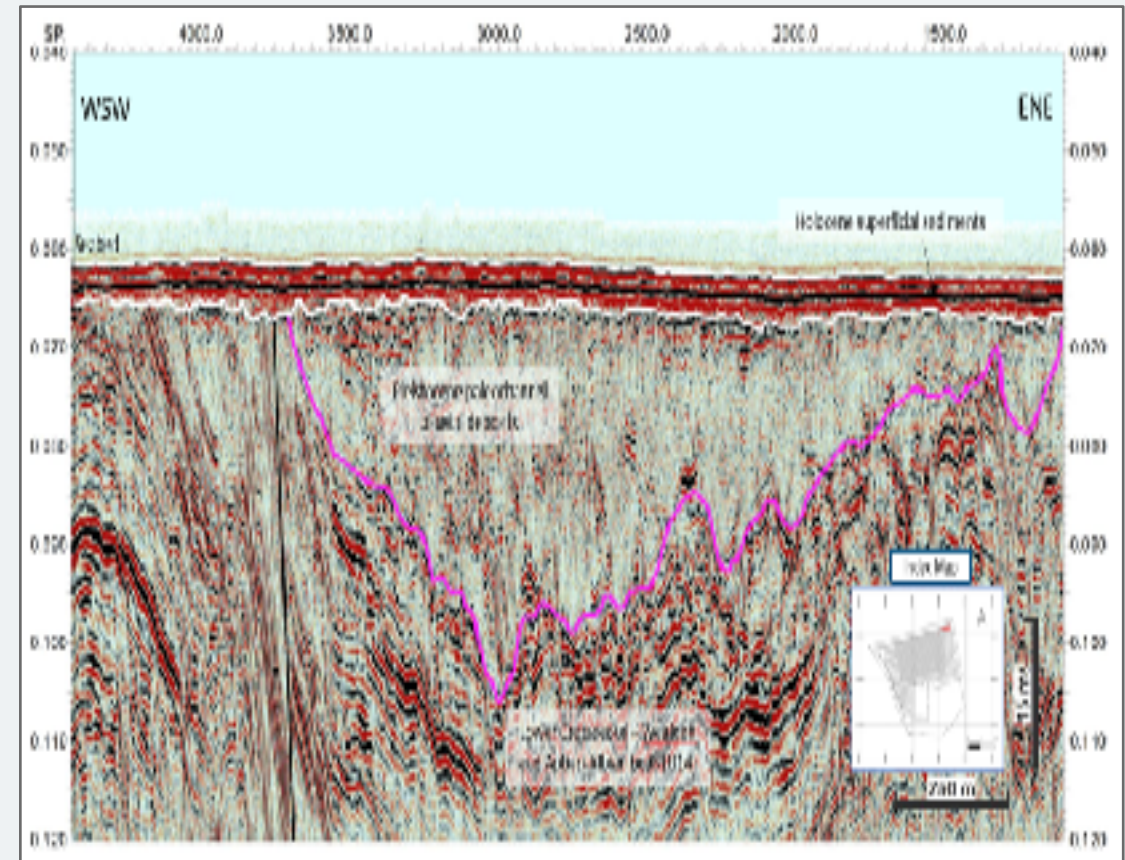
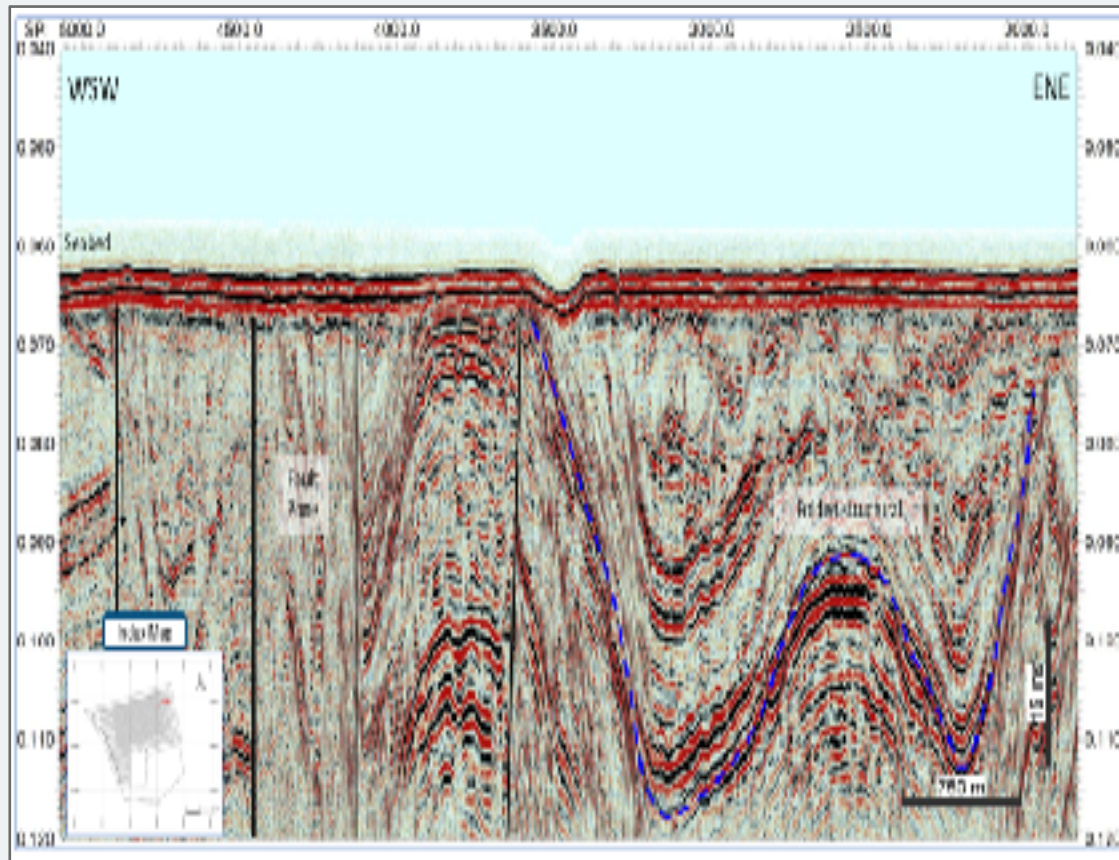


## INNOMAR MEDIUM SBP DATA EXAMPLES



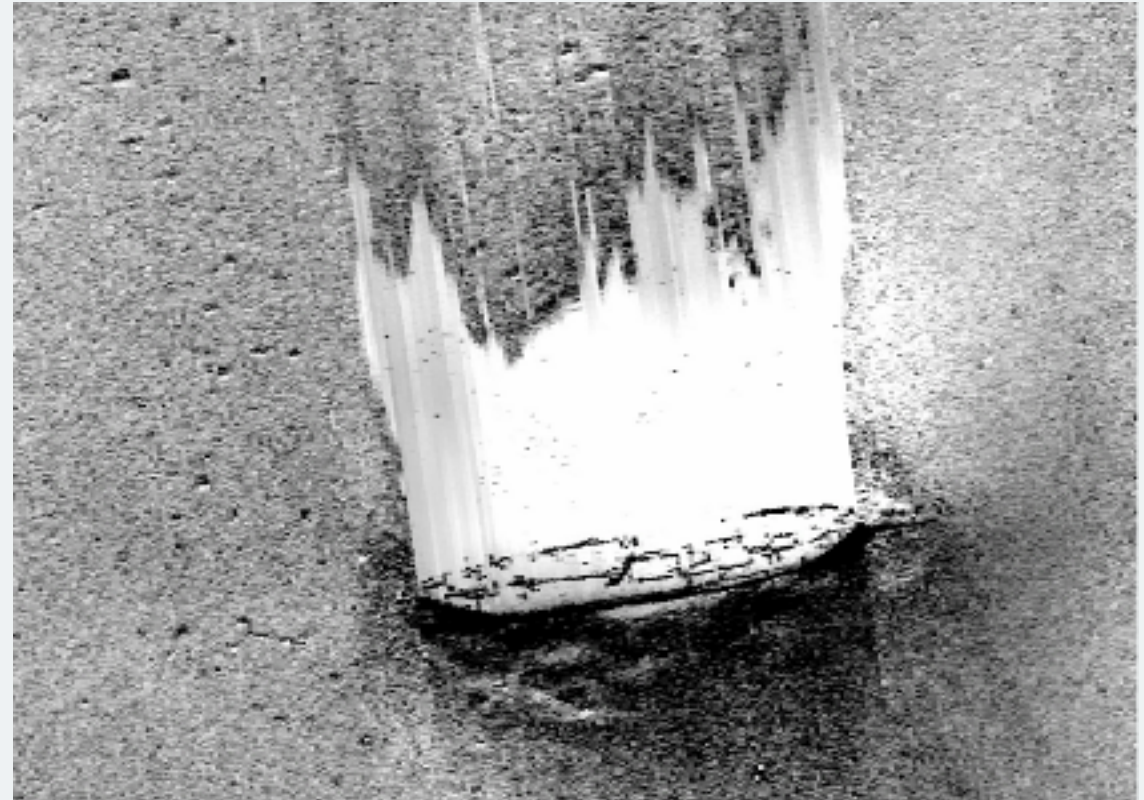
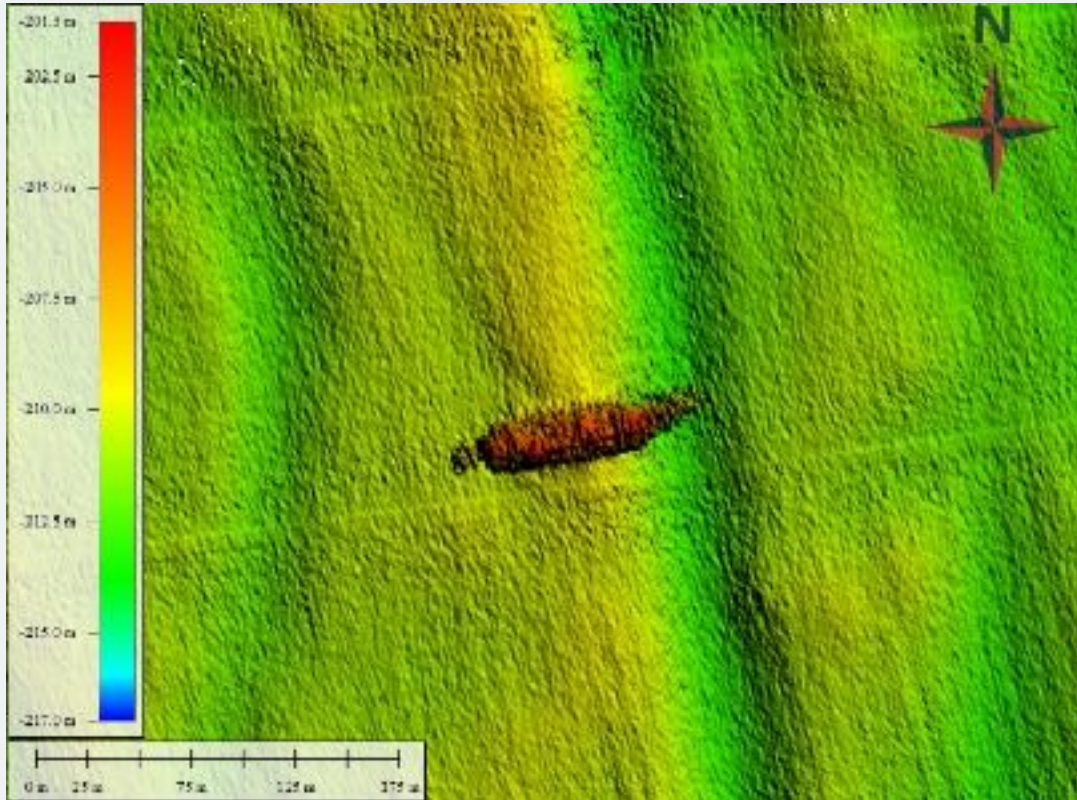


## 2D UHRS DATA EXAMPLES 2023



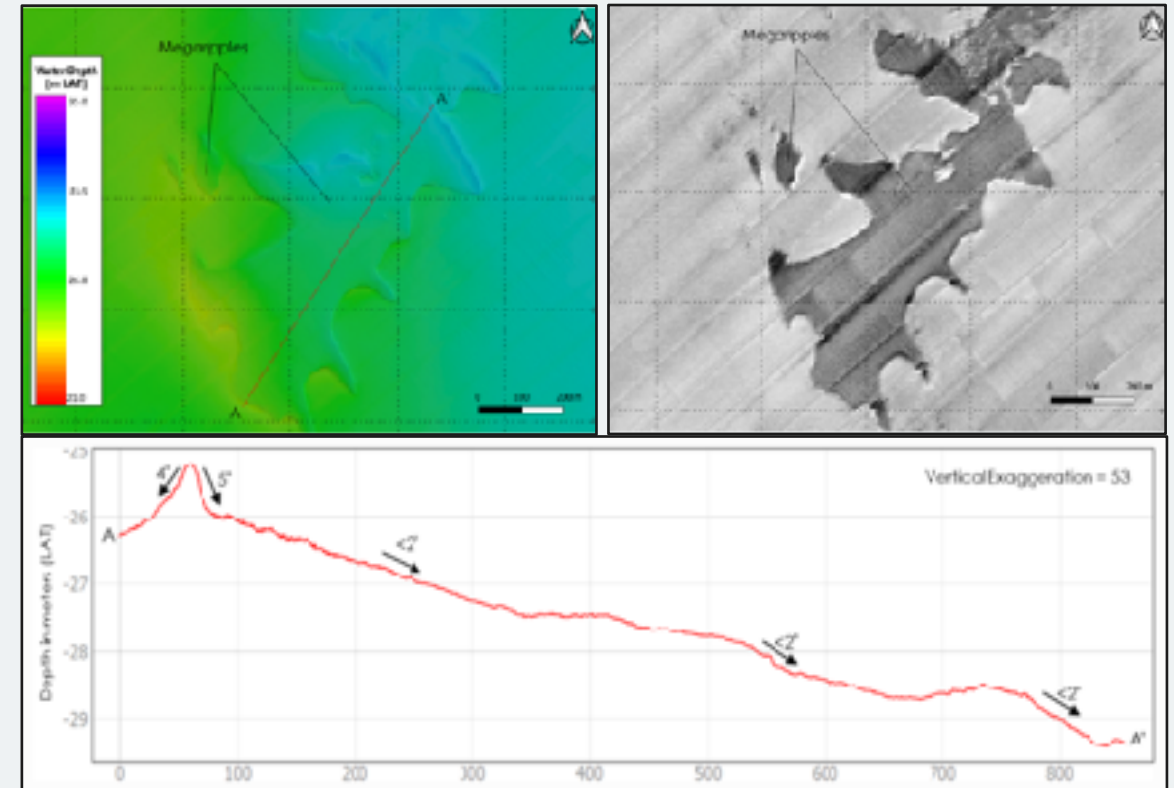
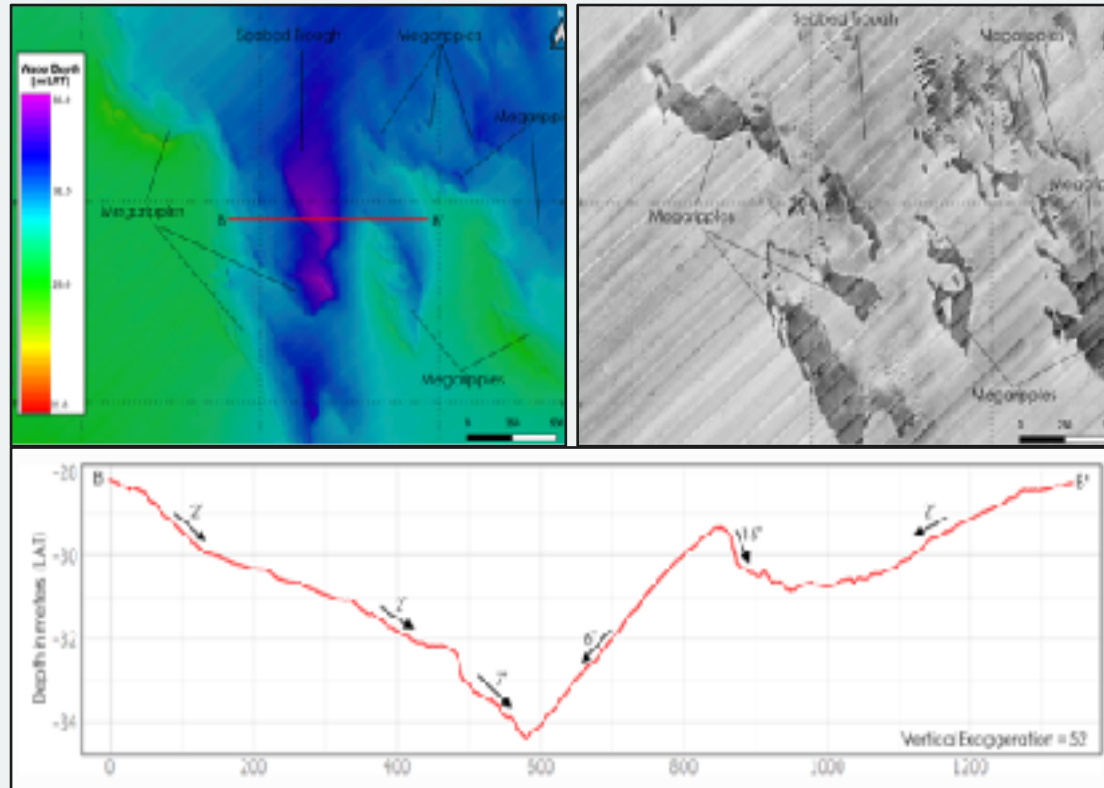


# SHIPWRECK DETECTION





# SEABED MORPHOLOGY DATA EXAMPLES



A large offshore oil rig is shown in the middle of a deep blue ocean under a clear blue sky with some light clouds. The rig consists of several interconnected platforms. The central platform has a tall derrick with a white cap. To its right, a long yellow bridge extends across the water to another platform, which has a tall flare stack emitting a small flame. The rig's structure is primarily yellow and white.

# OUR GEOPHYSICAL VESSELS



# SUNNY LADY

**Ship Owner :** Teige Rederi AS

**Designer :** Salt Ship Design

**Year of delivery :** 2022

**Classification :** DNVGL

**Type :** Research/Survey Vessel

Length LPP  
**86.5m 77.2**

Depth Main Deck  
**17.8 / 18.8**

**Speed**  
16.5 knots

**Accommodation**  
26 pax





# ENVIROS SURVEYOR

**Year :** 2021

**Classification :** Korean Register

**Type :** Survey Vessel

**Length**

**38 m**

**Beam**

**13.8m**

**Draught**

**4 m**

**Engine**

**2300 bhp**

**Deck Space**

**120 sqm**

**Accommodation**

22 pax

**Equipment**

20 T.A. Frame, 2.2 T. Knuckle  
Boom Crane, FiFi System





# ENVIROS EXPLORER

**Year:** 2024

**Classification:** NKK

**Length**

**41.7m**

**Beam**

**11m**

**Draft**

**2.3m**

**Main Propulsion**

**2X1138 bhp**

**Deck Space**

**192 sqm**

**Accommodation**

34 pax

**Key Features**

Magnetic compass, primary & secondary radars, Echo Sounder, GPS and Autopilot, Veth-Jet Motor Driven Channel Thruster



# MY CAMELLIA

**Year :** 2018

**Classification :** Registro Italiano Navale (RINA)

**Registry :** Kuching

Length

**40 m**

Breadth

**8.6 m**

Draft

**4.8 m**

Main Engine

**2x1138 bhp**

Deck Space

**120 sqm**

**Accommodation**

30 pax

**Equipments**

Navigation / Communication equipment, deck and safety equipment.





# MV GENESIS

**Year :** 2011

**Classification :** BV

**Flag :** Betio / Kirabati

Length

**60m**

Beam

**16m**

Draft

**4.85m**

Main Propulsion

**2x2200 bhp**

Endurance

**31 days**

**Accommodation**

54 pax

**Key Features**

Positioning and Navigation equipments,  
Bathymetry and Seabed equipments





## OUR VESSEL - MV GENESIS







## OUR VESSEL - MV GENESIS



A wide-angle photograph of an offshore wind farm. Several large, three-bladed wind turbines are visible, spaced out across a calm blue sea. The sky is a deep blue with wispy white clouds. The turbines are white with blue accents on the towers and bases.

# OUR GEOTECHNICAL VESSELS



# MV TRINITY SURVEYOR

**Year :** 2008

**Classification :** IR Class

**Flag :** Indonesia

Length

**55 m**

Beam

**13.8 m**

Draught

**4.75 m**

Engine

**3600 bhp**

Clear Deck Area

**610 sqm**

**Accommodation**

44 pax

**Equipment**

4 Point Mooring, Furuno FR 1505 MK3 Radar, HF Radio, Navtex Receiver, Echo Sounder





## OUR VESSEL - TRINITY SURVEYOR







## NEW BUILT RIG - 1000 meters capability Geotechnical system currently under construction in Singapore



# MV GEO SOVEREIGN

**Year :** 2006

**Classification :** ABS

**Flag :** Kiribati

Length      Breath      Draft  
**70.05m    14.95m    5m**

Main Propulsion      Clear Deck Area  
**2x2750bhp      490 sqm**

## **Accommodation**

42 pax (fully air-conditioned)

## **Equipment**

Bow Anchors, Communication & Navigation Equipment, Geotechnical Survey equipment











**SEABED  
CPTs, AUV & USV**



# PeneVector-III

## SEABED CPT

Water Depth Range

**0-100m**

Weight in air

**20 t**

Penetration force

**200 kN**

Way of penetration

**Hydraulic Cylinder  
(with casing penetration)**

Speed of  
Penetration

**2 cm/s  $\pm$ 20%**

Depth of  
Penetration

**60 m**



# Neptune 5000

## SEABED CPT

Push Depth

**20 m**

Weight in air

**4.5 t**

Thrust Capacity

**35 kN**

Depth Rating

**3000 m**

Speed of Penetration

**2 cm/s  $\pm$  10%**

Cone Data Rate

**Selectable up to 20Hz**





# Neptune 3000

## SEABED CPT

Push Depth

**10m** from Coiled Rod

Weight in air

**1.5t**

Thrust Capacity

**10 kN**

Depth Rating

**3000 m**

Speed of Penetration

**2 cm/s  $\pm$  10%**

Cone Data Rate

**20 Hz**



# Penevector-IV

## SEABED CPT

Operating Depth  
**0~100~3000m**

Weight in air  
**7t**

Thrust Capacity  
**50kN**

Maximum CPT Path  
**165km**

Way of Penetration  
**Double friction wheels**

Sampling Depth  
**10m** (typical formation)





# Manta-200

## SEABED CPT

Operating Depth

**150m** (shallow water)

**1500m** (deep water)

Max Pushing Capacity

**200kN**

Speed of Penetration

**0 – 80 mm/s**

Weight in air

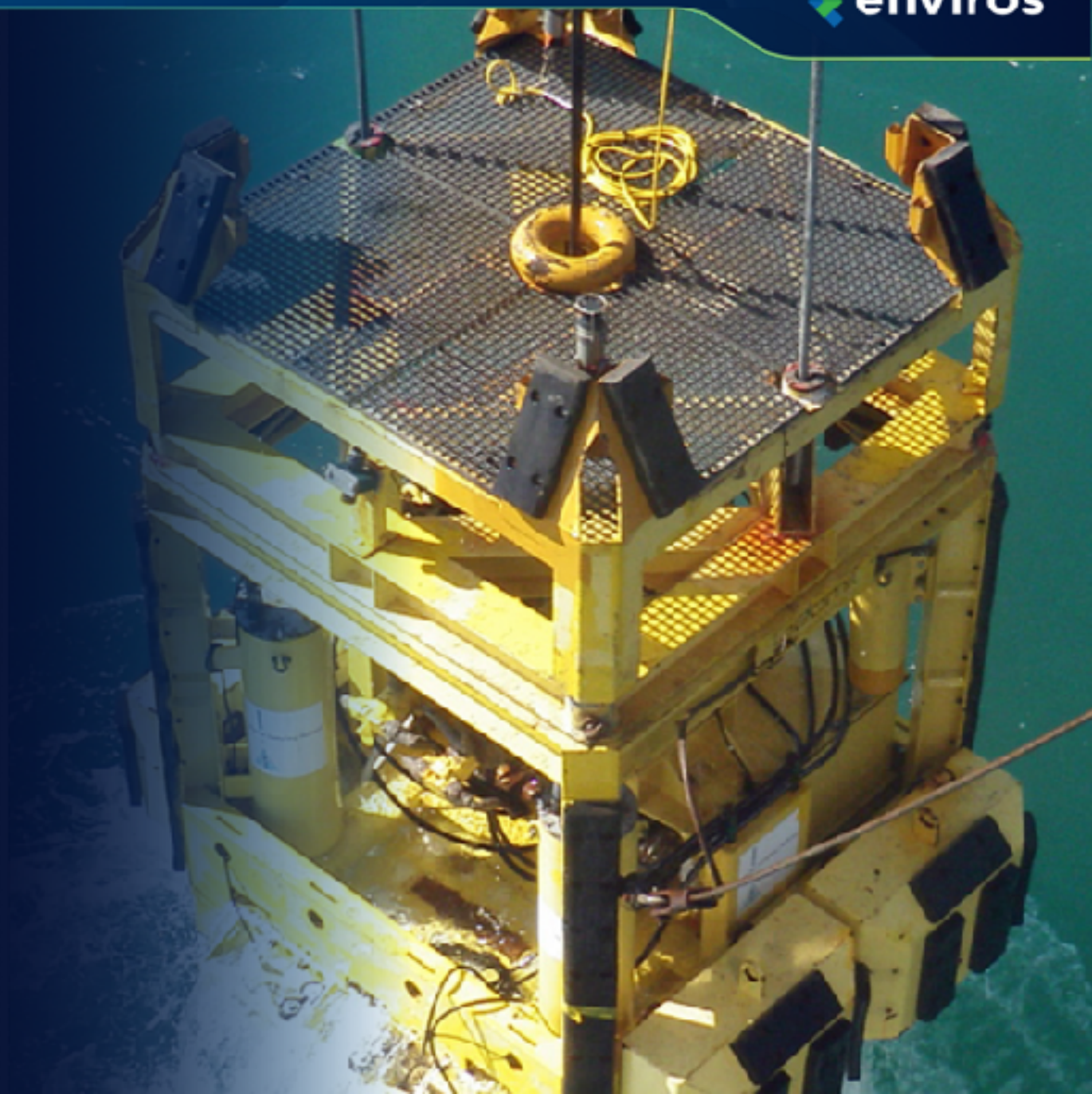
**5t**

Power & Communication

**Via umbilical**

Data Rate

**Real-time at  
surface**





# Triton Class Gen III

## AUTONOMOUS UNDERWATER VEHICLE

Operating Depth

**100 m**

Weight

**350 kg**

Length

**4.4 m**

Configuration

**High speed ROV  
tethered configuration**

Surface endurance

**14+ DAS**

Max Speed

**5 knots** (surface)

**2 knots** (subsurface)





# XPLORER 1

## MARINE SURVEY USV

### UNCREWED SURFACE VESSEL

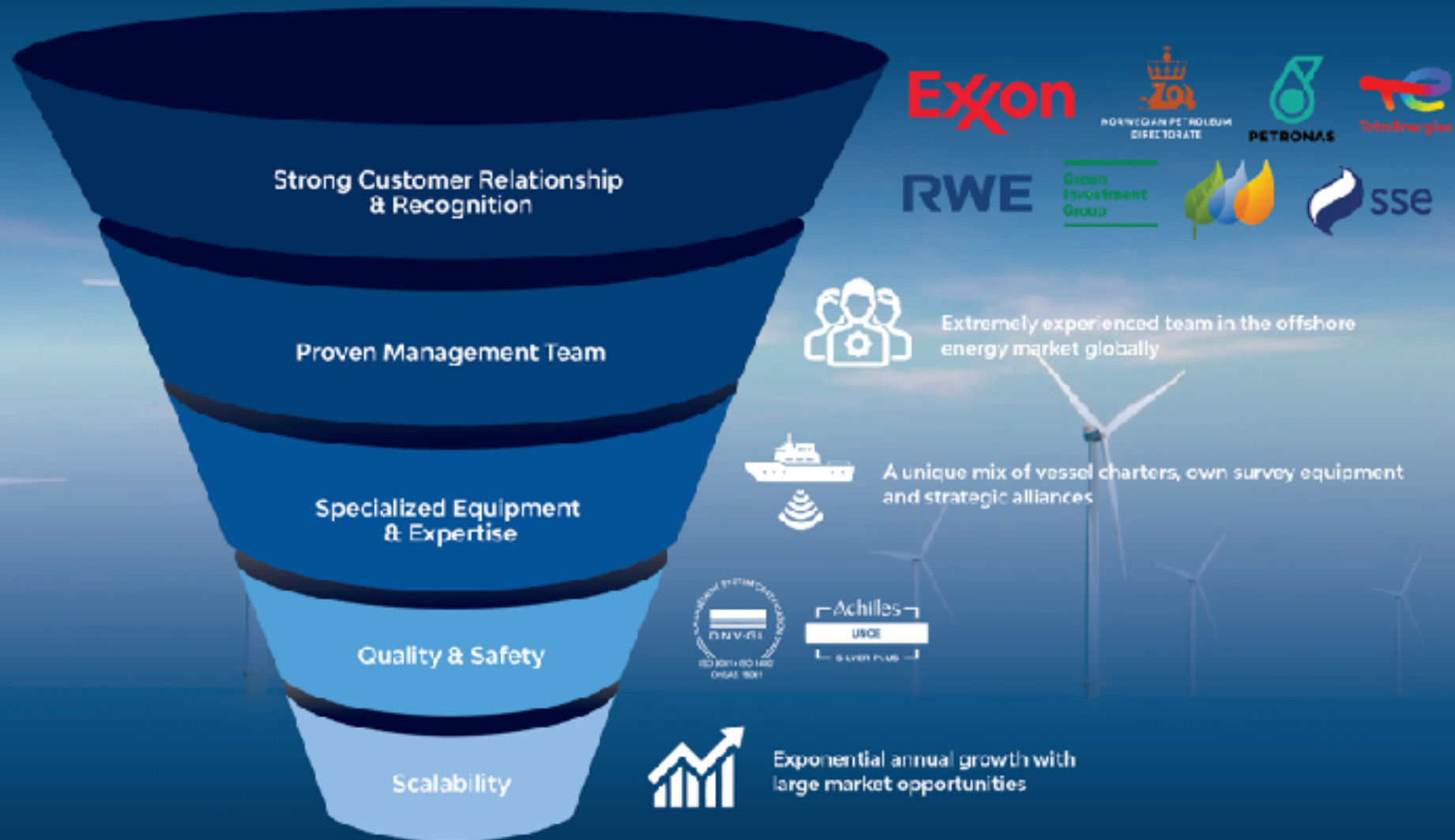
Length	Weight	Draught	Max Speed
<b>8.38m</b>	<b>4.9t</b>	<b>0.65m</b>	<b>10 knots</b>
Payload	Endurance	Hull Material	
<b>500 kg</b>	<b>150h @ 4kN</b>	<b>Marine Aluminium Alloy</b>	

#### Key Features

- Overall modular design, easy to maintain, higher load capacity
- Auto collision avoidance system equipped with radar, HD camera, and AIS sensing system
- 3 x independent display screens with high-accuracy data showcase
- Active roll reduction system roll amplitude : 3 degrees in SS3



# ENERGY STRATEGIC FUNNEL







UNITED KINGDOM • UNITED ARAB EMIRATES • MALAYSIA • SINGAPORE