Seabed Geosolutions
Company Profile
Seabed Acquisition

Seabed Geosolutions provides better azimuth and offset diversity with multi-component (4-C) seismic technology positioned directly on the seabed in water depths ranging from 0 - 3000 meters. We deliver robust broadband seismic data to resolve ambiguity in your reservoir model and extract maximum value from your assets.
Delivering the Most Versatile Seabed Solutions

Seabed Geosolutions is the leading provider of innovative seabed geophysical solutions to the oil and gas industry with a strong focus on the development and production phases of oil and gas fields.

In the rapidly growing seabed seismic market, we offer capabilities and experience ranging from 0 – 3000 meter water depths with an array of seabed imaging technologies including Ocean Bottom Nodes (OBN) and Ocean Bottom Cables (OBC). Seabed Geosolutions delivers custom-designed seismic surveys utilizing the most versatile and efficient technology while providing high-quality multi-component data. We can optimize the speed, efficiency, quality and safety of seabed acquisition. Through the use of pioneering seismic technology positioned directly on the seabed, we provide the critical insight required to make confident, informed decisions on field development and production, and resolve ambiguity in reservoirs.

Our History

In September 2012, Fugro (60%) and CGG (40%) entered into a seabed geophysics joint venture that united the ocean bottom node expertise of Fugro and the ocean bottom cable, node and transition zone experience and operations of CGG. Seabed Geosolutions was formally established in February, 2013 with headquarters in Leidschendam and offices in Houston, Bergen, Dubai, Massy, and Kuala Lumpur.

Committed to Research & Development

As the leading provider of innovative seabed geophysical solutions, we are committed to the development and application of the most advanced seabed technologies available in our market. Our Research and Development (R&D) team comprises some of the industry’s most talented and experienced geoscientists, engineers and programmers who are engaged with meeting our clients’ needs and providing them with some of the highest quality seabed seismic data available today. The R&D team continues to be on the leading edge of safe and efficient seabed geophysical solutions.
Introducing FlexNode™ – Think *inside* the box

Seabed Geosolutions introduces a scalable, on-demand solution for projects constrained by time, obstructions or geophysical complexities.

Flexible survey designs with scalable node counts are just the beginning. FlexNode provides an integrated project management approach which incorporates efficient mobilization and de-mobilization utilizing a transportable modular solution. This express service also offers expedited processing turnaround of multi-component data.

FlexNode is the best choice when:

- Unsurpassed repeatability is necessary
- The target is in obstructed areas up to 3,000 meters of water
- Time is of the essence
- Geophysical complexities call for multi-component data
- Under-utilized assets are available on-site

Seabed Geosolutions’ highly experienced crews work safely within your project constraints to deliver an express seabed seismic solution, when and where you need it most.
Seabed Geosolutions leverages the most efficient Ocean Bottom Seismic (OBS) technologies to resolve operational and geophysical challenges in up to 3000 meters of water. Our integrated solutions include services and technologies from transition zones all the way to deep water.

Seabed Geosolutions leverages the most efficient Ocean Bottom Seismic (OBS) technologies to help resolve geophysical complexities in highly obstructed environments.
MANTA®
The next evolution in seabed seismic technology

Manta, Seabed Geosolutions’ revolutionary seabed seismic technology, provides a single ocean bottom node solution for all water depths from 0 – 3000 meters. Manta overcomes challenging environments with complex geologies and delivers improved data clarity through versatility in survey design. Manta is a compact, autonomous node solution which offers:

- 4-C multicomponent recording
- Flexibility of deployment - traditional dense receiver configuration or by remotely operated vehicle (ROV)
- Transportable modular solution

The Manta system was designed to seamlessly deliver improved geophysical illumination with flexibility for dense source grid, full-azimuth and long offset surveys.

Transition Zone & Shallow Water Acquisition

Utilizing the Sercel 428® and 408® WPSR and Sercel 408 ULS systems, we can accommodate mixed source, mixed receiver, and/or hybrid land-transition zone surveys. Seabed Geosolutions’ revolutionary new Manta autonomous node system is ideal for acquiring data in transition zone and shallow waters.

Intermediate to Deep Water Acquisition

Utilizing the Sercel SeaRay® ocean bottom cable system, we can conduct exploration 2D, high-density 3D or development 4D programs with digital broadband 4-C sensors. There are occasions where towed streamers, ocean bottom cables, or shallow water cabled systems will have restricted access for imaging the subsurface. In these circumstances, we offer several proprietary ocean bottom node systems including Trilobit™ and CASE Abyss™ ocean bottom node (OBN) technologies. Seabed Geosolutions’ revolutionary new Manta autonomous node system is also ideal for acquiring data in deep waters up to 3000 meters. Seabed Geosolutions nodes not only incorporate 4-C multicomponent broadband surveys, but their flexibility also makes them ideal for obstacle avoidance or imaging in environmentally sensitive locations. Prolonged recording endurance and versatility in deployment method make our node solutions a highly viable option for challenging environments, as well as for enhanced subsurface imaging.
Why Seabed Acquisition

The benefit of ocean bottom seismic lies in better data resolution which contributes to a decrease in exploration risk and improves geophysical reservoir imaging and monitoring.

**Enhance the seismic signal**
By acquiring broad bandwidth data using sensors which are coupled to the seafloor, our solutions reduce the effect of water bottom multiples, gas clouds and surface obstructions while simultaneously improving your seismic signal on low and high ends of the frequency spectrum. Better signal-to-noise ratio equates to a more robust dataset for your processing flow and a more meaningful final 3D volume.

**Resolve ambiguity in your geological model**
Better illumination beyond 3D surface anomalies such as salt domes, slumps and tight 4-way anticlines, as well as detection and correction of anisotropic effects, allows for valuable insights into your reservoir’s structural and stratigraphic complexity.

**Understand your reservoir complexity**
Ocean bottom seismic acquisition generates a true converted wave volume and provides additional attributes for better reservoir characterization and allows for fracture density and orientation determination. This allows production teams to better resolve complexity and extract maximum value from assets.
Seabed Geosolutions is committed to conducting business in a manner that is compatible with the communities in which we live and work, and that protects the health, safety and security of our employees, contractors, customers, and the public. These commitments are documented in our corporate Quality, Health, Safety & Security and Environmental policies.

These policies are put into practice through a disciplined management framework called the Operating Management System (OMS). The OMS is the cornerstone of our commitment to managing potential hazards and risks associated with our operations and achieving excellence in performance. This system establishes common, worldwide expectations and best practices for addressing risks inherent in our business. It provides us with one systematic and controlled holistic approach for how we manage our business with respect to safety, risk management and operational integrity.

Seabed Geosolutions uses Guardian, our on-line document control and event reporting system, to store our documents as well as track and manage QHSE events. The system is divided into two modules: one module provides a secure document control system, and the other provides us with an event reporting program.

This system allows for simplified and enhanced internal documentation processes, as well as event reporting, management, investigation and analysis.

Safety Excellence: Where safety is a Corporate Value, not just a priority.
Global Expertise

More than 29,000 km² of 3D and 11,000 km of 2D seismic data acquired since 2005

In our fast moving industry, investing in people is vital to maintaining our position as the global leader in providing seabed seismic solutions. We are committed to continuously educating and developing our most important resource - our people.

Our teams represent decades of experience and knowledge in the field and in our offices worldwide. By providing growth opportunities and industry leading training facilities, Seabed Geosolutions aims to ensure that all staff possess the knowledge, skills and experience to deliver the most current, advanced and technically robust solutions.
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