

3D at Depth Launches Worldwide Offshore Geophysical Survey Services Business



3D at Depth, a leading expert in Subsea Lidar (SL) laser technology, and leading provider of underwater survey services and 3D data solutions, has announced the launch of its offshore Geophysical Survey Services division. The new division will provide optimized surveys to support both nearshore, inshore and offshore deepwater development activities focused in the areas of offshore wind farms, pipeline routes, environmental site surveys, offshore hydrocarbon projects and civil engineering surveys.

3D at Depth first commercialized SL technology for the offshore industry in 2014. The company focus has always been on 3D data excellence through innovative technology solutions that enable cost savings across any survey initiative without sacrificing data quality. The Geophysical Survey Service division is supported by a team of experienced

Lidar experts, 3D data specialists and geophysical and hydrographic professionals, providing a multidisciplinary approach to guide, identify and analyse data acquisition initiatives across survey campaigns. The team complements the company's patented SL laser technology and innovations, including [3D at Depth's](#) comprehensive inspection and survey solution.

AUV/ROV Package

The Geophysical Survey Services division will leverage 3D at Depth's in-house electronics, system integration and design capabilities as key differentiators. Subsea Lidar 3D data sets will be merged with multibeam echosounder (MBES) multi-frequency, multi-spectral data acquisition and optical technologies, which will enable more robust, higher quality output, maximizing results for the end client. Deepwater offshore, inshore and nearshore projects will also have a clear advantage with 3D at Depth's integrated autonomous or tethered underwater vehicle and vessel-mounted survey solution. The fully integrated solution incorporates a hovering supervised autonomous AUV/ROV package and takes full advantage of 3D at Depth's SL laser with remote sensing technology – inertial navigation coupled with an MBES and pipeline and hydrocarbon leak detection sensors. One tool, one set-up, one mobilization for multiple survey deliverables designed for efficient and integrated operations.

Gap in the Geophysical Market

The application of 3D at Depth's technology approach will enable it to expand into geophysical survey services and is built around solving customer challenges in three areas: reducing environmental and human risks, lowering the project's overall carbon footprint, and providing more robust data acquisition solutions. Specifically, the technology was developed from best practices in deepwater survey campaigns to tackle the challenges of shallow water survey data collection and acquisition projects. Shallow water projects have exposure to lengthy weather events, crew and ship standby costs, sea-state challenges for collection, and so on. All of these impact the time, budget and quality of the data.

"Since the company formation, we've focused on developing flexible site and subsea asset characterization technologies designed to reduce crew time and dramatically lower CO₂ emissions, while increasing the speed and quality of the results," stated Neil Manning, COO, 3D at Depth. "The ability to deploy smaller, more efficient vessels that can be operated safely outside the 500m zone or offshore exclusion areas without sacrificing data quality is a differentiator. When we looked at the problem, we found a gap in the geophysical market for this type of implementation that delivers cost-efficient surveys that still provide maximum data quality. Specifically, we pulled from our deepwater technology portfolio to fast-track a solution that meets the current requirements of the shallow water survey market. With over 600 offshore projects behind us and an increasing backlog, I am excited to push the flexible vehicle systems and in-house patented technology into the geophysical market. By moving the budget needle in the right direction for our customer's survey projects, we assist the offshore energy market in obtaining quality data for a reasonable price."

3D at Depth's Geophysical Survey Services division recently completed a major project for post-hurricane NTL surveys in the Gulf of Mexico for a large U.S. based pipeline company. The project continues with expanded requirements. 3D at Depth will partner and act as the prime contractor to ensure best practices, and unsurpassed technical expertise is always on hand. Geophysical and geotechnical capabilities for the projects will be available from vessel-mounted or subsea vehicle-mounted methods to allow for both long and close-

range inspections, which enable a blend of efficient data collection and high data quality to meet and exceed the demands from the end-users.

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