

Delivering a Subsea Lidar Virtual Reality Data Platform



3D at Depth, a global provider of advanced subsea Lidar systems and solutions, has partnered with iQ3Connect to deliver a new data visualisation tool to help clients build, maintain, map and monitor subsea assets, environments and resources. The partnership leverages the innovative features of 3D at Depth's subsea Lidar data and the power of iQ3's augmented reality (AR) and virtual reality (VR) platform to transform the value of offshore survey data.

Powered by iQ3's cloud-based software platform, customers can access 3D at Depth's subsea Lidar data through a secure, optimised web-based portal. The technology creates an immersive VR environment with true 1-to-1 3D scale models generated using repeatable, millimetric subsea Lidar data inputs. Using a laptop, desktop or smart device,

geographically dispersed teams can collaborate within a single VR session and be present in the same scene. iQ3Connect's underlying technology runs from a computer aided design (CAD) based platform allowing simulation of structures overlaid with subsea infrastructure.

From reality capture to virtual immersion

The ability to explore and experience 3D content as if you were actually onsite with a digital representation of physical assets or the surrounding environment creates a seamless workflow environment from reality capture to virtual immersion.

Subsea Lidar 3D data can be viewed and discussed with minimal changes to current installed geographic information systems (GIS) or big data hosting platforms. From data acquisition through data visualization and analysis, challenges faced by subsea survey programs are attributed to connecting actionable data to the right resource at the right time. 3D at Depth's Subsea Lidar VR Platform "Powered by iQ3" lowers the barriers and allows multiple users and key decision makers to "see" the same data together for greater insight and better decisions.

Critical data

[iQ3Connect](#) has been on the forefront of developing powerful AR and VR technology. Their expertise in industrial and engineering VR technology running on CAD based systems was a pivotal factor in the decision to partner, said Neil Manning, chief business development officer, [3D at Depth](#). Now they can leverage the convergence between iQ3's VR web-based platform and 3D at Depth's subsea Lidar data to allow customers greater connectivity to access the critical data they need to make better, more effective decisions. Manning added he is excited to move this partnership to the next level as it allows to develop additional innovations to transform the digital oilfield.

3D at Depth's leadership role in bringing commercial subsea Lidar solutions to market made them a perfect lead to advance iQ3Connect's technology in the offshore and marine sectors, said Michael Bloor, vice president of sales and marketing, iQ3Connect. His company's goal is to unlock the power of data through easy to use and productive AR and VR solutions that foster better decisions across the value chain.