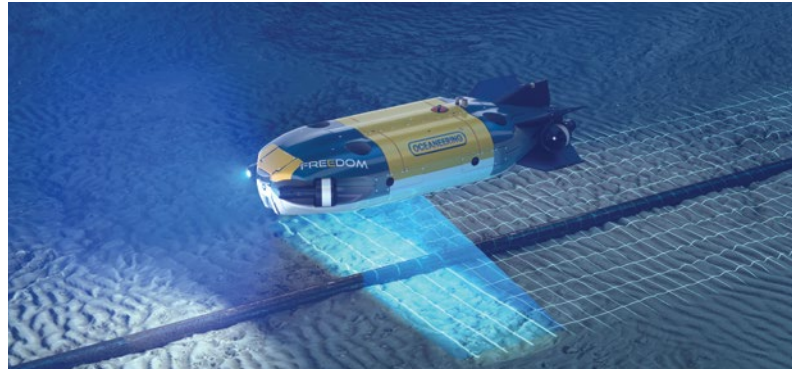


CASE STUDY:

Absolute Ocean Platform Empowers Oceaneering Team to Deliver Same-Day Visualized Subsea Data via the Cloud

Oceaneering International stands as a global leader in subsea engineering and cutting edge applied technologies. They provide advanced offshore solutions, including subsea robotics, data acquisition, and underwater inspections. The Oceaneering® Freedom™ Autonomous Underwater Vehicle (AUV), is designed for long-duration underwater tasks even in remote or dangerous oceanic environments.



CHALLENGE

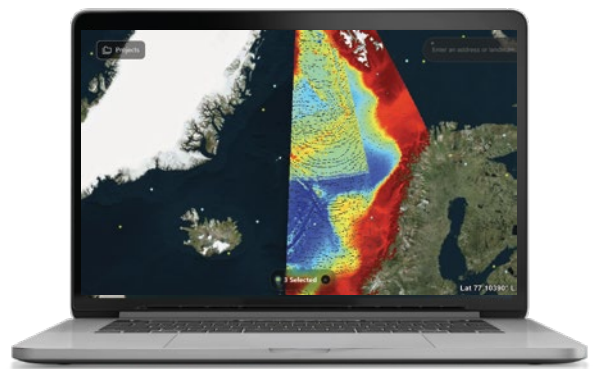
The Oceaneering Freedom AUV gathers large quantities of subsea data using high definition sonar, cameras, and various sensors. Traditionally, this data would be collected and then transferred on hard drives or using file sharing services after missions. Datasets would be processed, analyzed and then reviewed with customers using PDF files and PowerPoint for visualization.

However, in high-demand situations—such as immediate inspection of subsea infrastructure following storms—the need for decision makers to do additional analysis of the data is critical. Oceaneering needed a solution that would allow visualized subsea data to be available to end users through an easy-to-use tool and allow real-time sharing with key stakeholders, regardless of location.

“When Oceaneering approached us for support with survey data sharing during their Freedom AUV testing, we jumped in,” said Joe Wolfel, Terradepth’s CEO and Founder. “Absolute Ocean proved to be the ideal solution for delivering large amounts of Oceaneering collected data easily to stakeholders.”

SOLUTION

To overcome these challenges, the Oceaneering team integrated Terradepth’s Absolute Ocean cloud-native platform into their data pipeline. Absolute Ocean (AO) is a geospatial data management solution designed for rapid visualization and sharing of large-scale oceanic data. The software operates in the cloud and can ingest diverse types of data, including bathymetric surveys, sonar scans, and video footage. The integration of AO into the Oceaneering workflow allowed the Freedom data to be uploaded, visualized and shared the same day as it was collected. Through a single platform, all stakeholders could access the same data in real-time, leading to improved decision making, efficient operations and increased client satisfaction.



AO ABSOLUTE
OCEAN

RESULTS

The cloud-native nature of Absolute Ocean facilitated a seamless workflow between Oceaneering’s onshore teams, offshore engineers and clients. The project demonstrated the power of cloud-native technologies in transforming subsea data management and collaboration. Terradepth’s Absolute Ocean enabled Oceaneering to deliver high-resolution subsea data to the customer using an easy-to-use Google Earth-like tool the same day as collection, drastically reducing turnaround times and enhancing decision-making.