

TURNKEY SURVEY SOLUTION FOR BLACK SEA DEVELOPMENT

PROJECT OVERVIEW

UTEC, a Geo-services brand in Acteon's Data and Robotics division, was contracted by Subsea7 to provide survey services for the Sakarya gas field development offshore Türkiye in the Black Sea. The field water depths ranged from 100m to 2000m with a complex seabed terrain. The contract was awarded to UTEC in February 2022, with the possibility of an extension to support the life of field and inspection, repair, and maintenance (IRM) scopes.

THE CHALLENGE

The challenging subsea environment and the use of multiple vessels required the supply of a versatile and experienced team and hardware. Vessel mobilisations were required to deliver varied work scopes in support of the field development.

CUSTOMER GOAL

Subsea Integration Alliance, a strategic global alliance between Subsea7 and OneSubsea™, the subsea technologies, production, and processing systems business of SLB, required pre-dredging surveys, dredging, pre-lay surveys, long-baseline (LBL) array installation, and calibration, along with survey and positioning to support their integrated project scope of the engineering, procurement, construction, and installation (EPCI) contract awarded by Türkiye Petrolleri A.O. (TPAO).

- UTEC provided survey services on three Subsea7 vessels.
- Supported by Acteon brands, UTEC was able to build balanced and experienced survey teams capable of mobilising vessels with varied high-specification survey equipment.

Digital technology and data combined to enhance our expertise

- Subsea remotely operated vehicle (ROV) sensors, LBL hardware and surface PC spreads were provided by Seatronics, an Electronics and Tooling brand in Acteon's Data and Robotics division. These digital technologies were integrated with the survey spread to extensively de-risk the project.
- Equipment was integrated with the survey spread to extensively de-risk the project.
- Sonardyne FUSION 2, SLAM and sparse LBL solutions were used to decrease the volume of subsea equipment required and reduce vessel time for the installation of high-accuracy positioning arrays.

PRODUCTS USED

- Sonardyne FUSION 2, SLAM and sparse LBL
- Veripos surface positioning
- ROV-mounted inertial navigation system (INS)
- Dual head multibeam echosounder (ROV-mounted)
- EIVA acquisition and processing suite
- Visualsoft video acquisition.

