Subsea 7’s Survey Group provides survey & positioning services ranging from geophysical and seabed mapping through to full SURF and Life-of-Field support both to internal Subsea 7 operations and on direct contracts to external clients.

Key elements include:

- Vessel positioning
- Subsea positioning
- High resolution geophysical and bathymetric site & route surveys
- Pipeline and flexible installation support
- Seabed and Hydrographic Mapping
- Pipeline bundle tow monitoring
- Construction support survey
- Precise subsea measurement and metrology
- Trenching support survey
- Pipeline inspection support
- ROV, Remotely Operated Towed Vehicle (ROTV) and AUV operations support
- Structure deployment and installation support
- Data processing, analysis, reporting and charting
- Data presentation, charting and visualisation
- Geographical Information Systems (GIS)
- Quality assurance and quality control
Operating as a component part of Subsea 7’s Life-of-Field Group, the primary objectives of the department are to determine and execute the most effective and efficient solutions to meet project specifications and client expectations, through first class surveying, positioning, subsea measurement, data acquisition, interpretation and presentation.

Subsea 7 has a large pool of experienced staff surveyors, survey data processors and survey engineers operating primarily offshore, supported by experienced onshore staff located at the Company’s offices around the globe.

EQUIPMENT
Subsea 7 owns, supports and operates a large quantity of modern offshore survey and positioning equipment for use on its fleet of vessels and ROVs.

- Satellite positioning systems
- Inertial navigation systems
- Subsea acoustic positioning systems
- Digital video acquisition systems
- Remotely operated towed vehicles (ROTV, 1000m rated)
- Sidescan sonars
- Multibeam echosounders
- Scanning profilers
- Gyros and motion sensors
- Pipetrackers
- Depth/oceanographic/environmental sensors

Subsea 7 uses industry leading software systems to support data acquisition, management, processing, presentation and quality control.

PEOPLE
To efficiently and effectively deliver the Company’s projects to its clients, Subsea 7 recognises that the experience, capability and approach of its survey field people are of fundamental importance and go through robust competency management system including:

- Mandatory competency scheme (IMCA approved)
- Competency based career, development and training roadmap
- Professional development and accreditation (e.g Royal Institute of Chartered Surveyors (RICS), Institute of Civil Engineering Surveyors (ICES))
- Dedicated discipline personnel management and coordination
- First class technical, operational and individual support
- Industry leading support delivery through globally accessible Survey Helpdesk

NEW TECHNOLOGIES
Subsea 7 has a significant track record in evaluating and qualifying new and developing technologies for use in the offshore environment.

- First commercial operator of the Kongsberg HAIN® inertial navigation system in 2005
- First commercial operator of the NASNet® acoustic positioning system in 2007
- Structure laser scanning and dimensional control
- Subsea photogrammetric metrology
- Video mosaicing
- ROV dynamic positioning
- Video data streaming from vessel to office
- Inertial navigation systems for ROV navigation and metrology
- AIV navigation, positioning, mission management and data acquisition system

The continuing goal for the group is to introduce new technologies that deliver higher quality information, more efficiently.

DELIVERABLES
Survey data is collated and presented to clients through a range of mechanisms and formats.

- HTML web-based reports
- Geographical Information Systems (GIS) solution
- Paper charts
- Digital video solutions (e.g. VisualReview)
- Three dimensional scenes (e.g. Fledermaus)

Data may be delivered directly to the client or securely hosted on Subsea 7 servers and made accessible for visualisation, review, analysis or download via the internet.

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