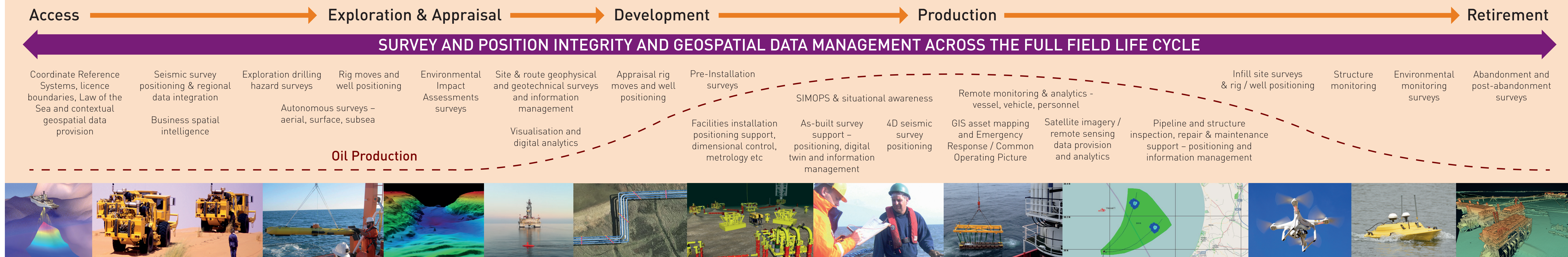


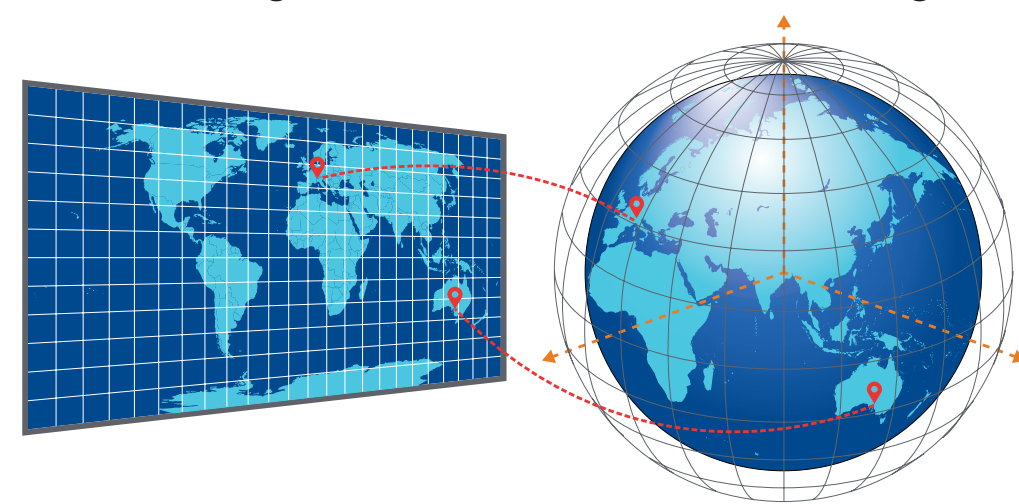
Geomatics support during the upstream oil and gas life cycle



What does the Geomatics Committee do?

The Geomatics Committee provides global guidance for the survey & positioning and geospatial data management disciplines.

Geomatics helps IOGP Members by developing and disseminating good practice, providing a forum for exchanging knowledge, influencing regulators and standards organizations, maintaining international position data exchange formats, data models, and a global geodetic parameter dataset (EPSG), and liaises with industry associations.



2020 Highlights

- Delivered new GeoRepository Platform and released first EPSG Dataset in new data model compatible with ISO 19111:2019
- Revision of Geospatial Integrity of Geoscience Software-GIGS documents, test data sets, and development of GIGS Web Platform
- Launched: 4D Survey Guidelines TF, Seawater Pressure to Depth Conversion TF and GIGS TF
- Hosted two P Formats Webinars in November 2020
- Liaison with Open Subsurface Data Universe (OSDU) to ensure adoption of the EPSG data model, and to promote use of Geomatics Data Formats and Models

Released:

- Revised GN3 Contract area description
- Environmental sampling and monitoring from airborne and satellite remote sensing

Still to be released in 2020:

- P7 wellbore survey data exchange format and User Guide
- Revised GN19 – Guidelines for GNSS positioning in the oil & gas industry
- Offshore Infrastructure Survey Data Model and Supporting Documentation

Work items for 2021

- Provide maintenance of EPSG Dataset and enhance EPSG Web Platform augmented by GIGS Testing Module. Deliver EPSG and GIGS Supporting Documentation
- Work with OGC, ISO, SEG, OSDU and Regulators to promote adoption or improvement of coordinate data and reference system standards
- Deliver new Geomatics Reports: 4D Seismic Survey Guidelines, GN for Geodesy in Angola, GN for Seawater Pressure to Depth Conversion
- Promote Geomatics work including development of videos, info-sheets, articles, surveys etc
- Jointly with Environment Committee, deliver report on Recommended Practices for CH₄ Emissions Detection and Quantification Technologies

Further work:

- Jointly with Environment and Metocean Committees, develop an industry guideline for Seabed and Overburden Integrity Monitoring for subsea CO₂ storage projects
- Provide maintenance of Geomatics Data Models: SSDM, LSDM and OISDM, including delivery of Unified Symbolology Set
- Provide maintenance and support of Geomatics reports including GN24 and GN25, P Formats, and USBL Technical Specification
- Cooperate with IPIECA Oil Spill WG on matters related to Common Operating Picture
- Advocacy with IMCA's Offshore Survey Division on revision of their current, and development of planned guidelines

Business value of Geomatics in the oil & gas sector

