

Geomatics support during the upstream oil and gas life cycle

Access

Exploration & Appraisal — Development Production SURVEY AND POSITION INTEGRITY AND GEOSPATIAL DATA MANAGEMENT ACROSS THE FULL FIELD LIFE CYCLE Site & route Pre-Installation Infill site surveys Structure Environmental Appraisal rig Environmental geophysical and Impact moves and well & rig / well monitorina monitoring geotechnical Assessments positioning surveys surveys surveys surveys GIS asset mapping Satellite imagery As-built 4D seismic Pipelin installation and Oil Spill Response remote sensing surveys and asset survev / Common Operating data provision positioning support, positioning inspection metrology etc. and analytics Picture Business value of Geomatics in the Oil & Gas Sector Work streams for 2017 and beyond

IOGP

EPSG

Coordinate Reference Systems, licence boundaries & contextual GIS

Seismic survey positioning & regional data integration

Exploration drilling hazard surveys Rig moves and well positioning



What does the Geomatics Committee do?

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

It aims to help 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), liaison with industry associations.



2016 Highlights

- Joint IOGP/IMCA/THSiS 6th Geomatics Industry Day 110 Aberdeen based attendees
- Report (No 373-23) on use of the Web Mercator Coordinate Reference System
- Inputs to SEG updates of position elements of SEG D v3.1 and SEG Y v2.0 seismic data exchange formats
- Regulator advocacy on IOGP Drilling Hazard Site Survey (DHSS) guidelines (US, Trinidad, Egypt, UK)
- Webinar on DHSS reports and updated P Formats 60 global Operators attendees
- Still to release: DHSS revised guidelines, P1/11 and P6/11 User Guides and P6/11 v1.1 format description, SSDM revised model, vertical CRS guidance note, satellite remote sensing for oil spills at sea guidelines (JV with IPIECA)

is a key component to reduce safety, environmental and business risk in the oil and gas industry. The Committee's primary objective for the near future will be to maintain our advocacy of industry regulators, associations & standards bodies and to maintain, enhance and develop existing deliverables such as the EPSG Geodetic Parameter Dataset, the SSDM – Seabed Survey Data Model, position data exchange formats and GIGS process.

For more information visit www.iogp.org/geomatics

- GIS Data Models maintain SSDM and develop LSDM • Geospatial Integrity of Geoscience Software (GIGS) - revise and update test datasets

Geomatics Committee Chair: Walter Jardine (BP)

- Continue active ownership of key industry:
- Guidelines and Position Data Exchange formats maintain
- IOGP's EPSG Geodetic Parameter Dataset maintain and enhance
- P7 wellbore survey data exchange format revise
- Oil Spill Response Common Operating Picture guidelines (JIP with IPIECA) – maintain
- Work with OGC, ISO, SEG and Regulators to promote adoption or improvement of coordinate data and reference system standards.

Chair's message

- Geospatial data integrity, provided through the combination of:
- accurate positioning during field operations & data acquisition
- appropriate geospatial data management, mapping and visualization

Accurate real-tin positioning and data acquisition

geophysical surveys vessels, wells, moo infrastructure insta integrity manageme other field operation & decommissioning

Accurate GIS, Fi Project Charts, 0 **Operating Pictur Geospatial Analy**

Licences, Seismic, Infrastructure, Geol Environmental, Ima Contextual, Cultura mobile asset tracki interpreted product

> Informed and competitive business decisions – spatially accurate, high quality operations positioning, geospatial data and maps.

more efficient, lower risk, trusted data

EGME MILAN, ITALY 1-3 NOVEMBER



•	Operational Efficiency
ne spatial for: s, rigs, rings, llation, ent and ns, late life	 Reduced operational cost and fewer delays Infrastructure, wells, seismic, site investigation – positioned where intended Better SIMOPS management (common, standardised and accurate activity situational awareness)
•	Risk Reduction
eld and common e and rtics for: Wellbore,	Reduced operational risk Improved emergency response Compliant with regulatory requirements Correct legal boundary definitions Improved spatial integrity during data transfer and manipulation
nazards, gery, l, ng and s	Business Value Enhanced, high quality geospatial analytics, better visualisation, better subsurface models

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