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Press release

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IOGP releases Land Survey Data Model (LSDM)

(London) IOGP's Land Survey Data Model (LSDM) is available now. This release continues IOGP Geomatics Committee practice of maintaining an 'out-of-the-box' data model template to manage survey data within a geodatabase.

LSDM is an industry standard template for operators to maintain land survey data, mainly acquired for the oil and gas industry. The model enables the storage of key geospatial and non-geospatial descriptive and feature-specific elements of the following land-based survey activities:

- Design, engineering and construction surveys of infrastructure and facilities including proposed routes, as-found, as-left, as-installed, and as-built positions; depth of burial; general/detail layout surveys etc. – for company or third-party facilities which may overlap or impact on E&P infrastructure (e.g., those owned or operated by utility companies)
- Land and topographic surveys, including elevation (contours, spot heights, relief shading, terrain modelling, etc.), natural and man-made features, explosive remnants of war (ERW), archaeological sites, and underground services surveys etc.
- Geodetic and survey control network surveys, including coverage, line of sight, monumentation, etc.
- Land survey measurements, survey line plans, and similar documentation for UAV/LiDAR operations or similar (planned and as-executed)
- Vegetation and land use surveys
- Imagery: from satellite, UAV, and crewed survey flights (satellite imagery, LiDAR, aerial photography, etc.)
- Right of Way (ROW) surveys and surveillance (ROW anomalies and observations): pipeline route surveys, pipeline and facility UAV inspection, access road surveys, etc.

- Administrative boundaries and cultural information (roads, railways, rivers, habitation, etc.)
- Geophysical/seismic, exploration and reconnaissance, geohazard, shallow and intermediate geology surveys
- Geotechnical soil investigations
- Environmental baseline and monitoring surveys
- Infrastructure condition and subsidence monitoring surveys

A detailed description of the data model may be found in the **IOGP Report 640 - LSDM Guideline for Delivery and Use report**, which is included in the package.

The LSDM package is available to [download](#) from the IOGP Publications library.

For more information about the IOGP Geomatics Committee work please visit:

<https://www.iogp.org/workstreams/engineering/geomatics>.

About IOGP

The International Association of Oil & Gas Producers (IOGP) is the global voice of our industry, pioneering excellence in safe, efficient and sustainable energy supply – an enabling partner for a low-carbon future. Our Members operate around the globe, producing over 40% of the world's oil and gas. Together, we identify and share knowledge and good practices to improve the industry in areas such as health, safety, the environment, efficiency and the energy transition.