

Quality • Innovation • Reliability



GIS, Remote Sensing, Oil & Gas consultancy

# About Us



Geonergy provides services to the Geospatial and Exploration Geoscience Industry encompassing Geographic Information Science, Remote Sensing and Oil and Gas. Geonergy functions with main aims: Quality, Innovation and Reliability to cater to the clients' needs. Our solutions will provide you with the assurance that your information is trusted and affordable; with our services you can achieve total confidence in your critical business decisions based on customer driven focus, high-quality innovative services and a professional specialised team.

Geonergy was founded in 2008 and incorporated in 2011 with a vision to provide quality services to the geoscientific community, to propagate Geospatial and Geoscience awareness and to participate in research and development. Geonergy consists of a multi-disciplinary dynamic team of highly skilled individuals, mastered in solving the critical challenges. Our reputation is built on our successful client projects and the quality in our work, amalgamated with the expertise of our staff who have academic backgrounds from top-notch institutions in the United Kingdom and a robust Industry experience of many years. Our company's focus is to provide services that enable and deliver the effective management of both technical and non-technical information to the geoscientific community, exploration and production (E&P) industry and beyond. Geonergy Ltd. has its Head Office based in London, United Kingdom.

Our services are aimed at the following public and private sectors:

- ❖ Natural Resources
- ❖ Disaster Management
- ❖ Climate and Environment
- ❖ Transport and Navigation
- ❖ Sports and Leisure
- ❖ Space and Planetary Sciences
- ❖ IT Solutions



# Services



## Oil and Gas

- GIS Mapping and Analysis
- Well and pipeline management
- Hydrocarbon potential mapping
- Regional studies
- Acreage and Play Fairway
- Imagery integration & analysis
- Data and information management

- Mapping
- 3D visualisation & DEM
- Spatial analysis
- Data conversion, manipulation, loading, management, integration
- Web-GIS Application design
- Spatial database design and customisation
- Data supply



## Geographic Information Science (GIS)



## Remote Sensing

- Image processing
- Image interpretation
- Change Detection
- 3D visualisations, DEM
- Orthophoto
- Feature Extraction
- Fly-through simulations and terrain analysis
- Mapping and analysis

# GIS



## What is GIS and how can GIS help to optimise your business?

GIS or Geographic Information Science encompasses information with a spatial and temporal element that helps policymakers, scientists and planners worldwide to store, retrieve, organise, manipulate and synthesise data for finding solutions to problems and assists us to gain a better insight and knowledge, to optimise the utilisation of resources and helps businesses to tackle their critical business decisions based on the patterns, trends and relationships of the data that could be visualised and quantitatively analysed in many forms including maps, charts and reports through a Desktop, Web-based or Mobile geographic information system frameworks.

## GIS Services

- Mapping, analysis and interpretation
- 3D visualisation
- DEM
- Data acquisition
- Spatial analysis
- Data conversion, manipulation, loading, management, integration
- Application design (desktop, web and mobile)
- Spatial database design and customisation
- Data and equipment

## Industries

The GIS technology is widely applied to a variety of public and private sectors.

### Natural Resources and Environment

GIS technology is becoming imperative to decision makers for managing the Earth's natural resources, especially to embark upon the environmental challenges facing the World today.

- Petroleum and Mining
- Agriculture and Forestry
- Climate Change
- Environmental Management and Conservation
- Marine and Coastal Management
- Oceans and Water Resources

## **Government**

Geospatial data and technology helps local, state and federal governments to analyse complex information across varied geographical extents and construct solutions that assist them to increase efficiency, plan, reduce costs and improve and optimise services for:

- Economic Development
- Census and Geodemographics
- Land Administration, Urban and Regional Planning
- National Surveying
- Geospatial Intelligence
- Crime and Law enforcement

## **Disaster Management**

GIS plays a vital role in helping to make critical decisions for emergency management including preparation, mitigation, response and recovery based on mapping, modelling and visualisation of the extent and amount of natural or human-induced catastrophic damage caused and assist in rescue operations.

## **Communications & Public Utilities**

GIS provides efficient working practices through common platform for managing business data and assets. It provides quality assurance and accountability, with reduced risk and increased profitability for organisations in the Communications and Public Utility sectors such as:

- Electricity
- Gas
- Location-Based Services
- Pipeline
- Telecommunications
- Water/Wastewater
- Renewable Energy

## **Transport and Navigation**

GIS has become a vital part and an essential tool the world over for managing, planning, evaluating, and maintaining transportation systems and navigation using Global Navigation Satellite Systems such as GPS and GLONASS, Galileo and Beidou.

- Aviation
- Highways
- Logistics
- Ports and Maritime
- Public Transit
- Railways

## **Business**

Economic downturn around the globe is compelling organisations to volte-face their strategy. Through GIS implementation, organisations overcome their operational challenges and achieve improved profitability. GIS helps to understand the market with a competitive edge through a quantitative analysis and visualisation of problems and providing solutions.

- Retail
- Real Estate
- Facilities Management
- Logistics

# Remote Sensing



## Remote Sensing Technology

We offer an extensive range of Remote Sensing services and utilise most advanced Earth Observation techniques and a wide range of satellite and aerial imagery, we employ the most sophisticated tools to extract valuable geo-information from digital imagery data. Earth observation has become an imperative tool for decision makers for managing and monitoring the Earth's natural resources and planning, Remote Sensing technology is widely applied to:

- Geological mapping
- Petroleum E&P mapping
- Mineral potential mapping
- Agriculture and Forestry
- Environmental monitoring and conservation
- Disaster management
- Space and Extra-Terrestrial
- Water resources and Hydrogeology
- Urban planning and Archaeology

## Services

We offer a wide range of technical and advisory services and bespoke solutions to our clients

- Image analysis
- Image processing
- Image interpretation
- Change Detection
- 3D visualization, Digital Elevation Models
- Orthophoto
- Feature extraction
- Fly-through simulations and terrain analysis
- Mapping

## Data Supply

We can arrange a comprehensive range of earth observation datasets for the clients' needs such as:

- Aerial Photography
- LIDAR
- Hyper-spectral and Multi-spectral satellite imagery from a range of sensors.

# Oil and Gas



## GIS for Oil and Gas

GIS Technology can greatly improve exploration and production processes. Spatial intelligence enable decision makers to make better decisions based on optimum utilization of resources, save costs and increase efficiency.

We offer a wide range of technical and advisory services to the upstream oil and gas industry, we have a sound experience of implementing GIS for petroleum exploration. GIS can be employed to the oil and gas industry processes such as:

- Mapping and spatial analysis
- Satellite based image interpretation and integration
- Seismic surveys planning and mapping
- Basin and Play Fairway mapping and analysis
- Well planning
- Pipeline management
- Field operations and monitoring
- Acreage and licenses
- Land management
- Environment and hazards
- Spatial databases

## Why choose us?

- ✓ A strong strategy, design and implementation capability
- ✓ A multi-disciplinary team with experience from a range of sectors
- ✓ Provide bespoke solutions
- ✓ Strong customer relationship and satisfaction
- ✓ Highly competent prices
- ✓ Value for money
- ✓ Efficient working practices
- ✓ Quality assurance & accountability
- ✓ Help to reduce risk and increase profitability



# Contact Us



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