Offshore assets are often located in dynamic environment and high risk. Management and surveillance of these assets generates huge volumes of data. This data is often collected in a diverse range of data formats which include CAD, GIS, JPG, TIFF, videos and reports.

As data acquisition in the marine environment is a costly exercise, the resultant data sets and reports represent valuable collateral. It is essential that the data is managed in an effective manner in order to ensure site specific information is available in a timely and concise way.

GIS provides an efficient structure for capturing, managing, analysing and displaying spatial information. Our solution is a GIS based environmental and asset management system.

Summary

- Industry expertise in engineering and science.
- 30 years’ experience in oil and gas industry.
- Proven track record of delivering leading edge bespoke GIS systems.
- Targetted GIS systems and solutions.

Reducing cost & securing compliance
GIS based asset management systems

This represents the perfect architecture for visualising oil and gas asset information in a structured, organised and easily accessible database. This enables environmental advisors, project engineers and project managers to understand the data sets and manage the assets effectively.

Intertek have a proven track record in a range web and standalone GIS systems. We have developed a variety of in-house tools for effective and efficient management of GIS data.

Our approach to GIS asset management systems provides a cost effective method for data management. The information can be used to support operational and maintenance activities. The system can be web-based and integrated with existing systems. Background data sets provide context for asset datasets, such as other development activities within the vicinity. Non-spatial data such as videos and reports can be accessed via a document library and historical data can be integrated to establish trends over time. This can be essential for seabed survey data management. We have developed a number of specialist tools which can be integrated with the system to provide additional functionality, such as visualisation of vessel movements.

Features of our approach include:

- Centralised knowledgebase for decision making in operation and maintenance
- Data visualisation (environmental, asset, surveys)
- Analysis of data
- Visualisation of modelling outputs (oil spills, produced water, and so on)
- Visualisation and monitoring of real-time data feeds (including AID and DTS)

Benefits of our approach include:

- Ensure regulatory compliance
- Make better decisions and improve communications between teams by presenting data in easy-to-use-web-mapping applications
- Increase efficiency by short-cutting GIS server deployment and by avoiding time-consuming development projects
- Save costs by deploying powerful web-mapping applications without expensive in-house development.

Other related GIS services we offer include:

- Drill cuttings dispersion modelling
- Pipeline discharge modelling
- Produced water dispersion modelling
- Chemical discharge modelling
- Oil spill modelling
- Risk assessment
- Burial assessment
- Cable routing

For more information please visit www.intertek.com or contact us at energy.water.info@intertek.com or call us +44 (0) 1428 727800

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