

Optimizing Cost and Time Benefits of Satellite Imaging and GIS Technologies in Oil and Gas Exploration

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Abstract

Over the past few years the use of Satellite Imaging and GIS Technologies have become an essential part of the planning and decision making processes in Oil and Gas Exploration. By combining the power of a dynamic visual geodatabase with the precision and up-to-date vintage of satellite imagery, benefits in terms of cost, time and accuracy can be achieved throughout the entire project life cycle.

This presentation will demonstrate how these two technologies are used from the start of preliminary modeling, costing and planning of the program, to the government regulatory and approval processes, to field work such as scouting, permitting, surveying and recording.

Also, the Satellite Imaging work that goes on behind the scenes, such as the use of advanced satellite imaging sensors, image planning techniques and orthorectification will be presented in order to inform and showcase how the product is produced to meet the highest standards in visualization and accuracy.

Marc Lehmann is employed with OutSource Seismic Consultants Inc. as a Geomatics Specialist. Currently Marc specializes in the incorporation of information technology/GIS in planning and managing geophysical projects in Canada and the United States.

Kevin Seidel is a GIS Solution Specialist for Iunctus Geomatics and TELUS Geomatics. After graduating from the University of Lethbridge with a GIS concentration, Kevin began working technically with SPOT data in 2003 orthorectifying and processing. Over the last year Kevin has been working closely with Iunctus Geomatics and TELUS Geomatics supporting customers and promoting products and services.