



i-Open Technologies is bringing the leading edge technology for the Oil & Gas Drilling Services and Operations.



Logistical and planning platform

In today's market conditions, organizations are now turning to new emerging technologies for managing/tracking their assets, capture data in the field and leverage data to analyze drilling efficiency, and rely on data driven patterns to guide and plan decisions. What if you could see all your data through a web-based dashboard, avoid costly errors and tracking of work and time during the drilling process, predict hazardous situations and risks that could have a negative impact on health, safety and the environment, and invoice your clients the same day as opposed to weeks from the time work is performed?



<http://www.oilandgasoperations.ca>

Track your Jobs, your Labour, and your Assets... in real time... in one single unified system.

Case Study

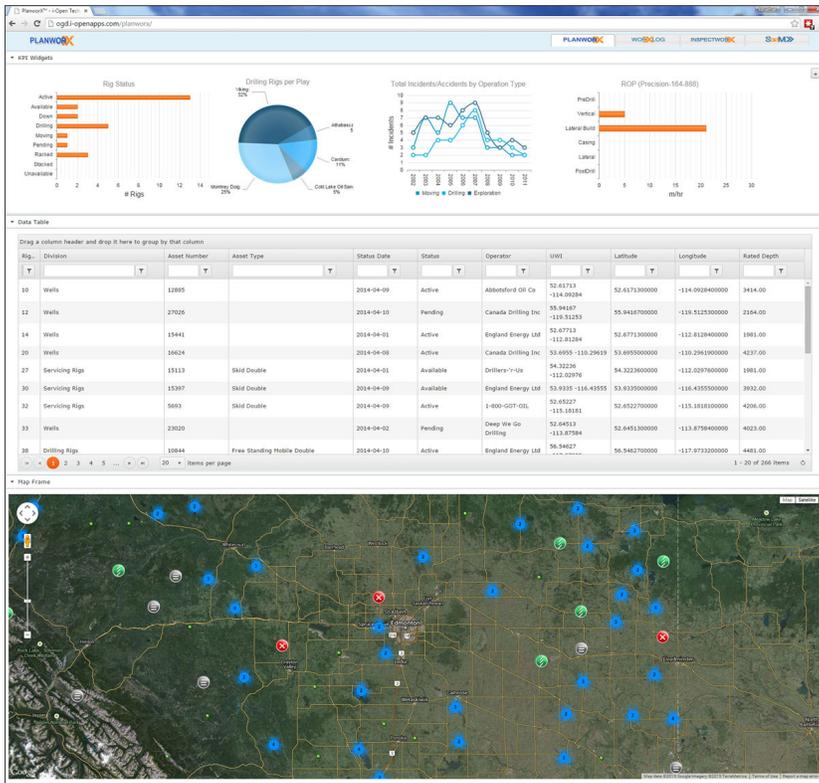
**From Data... To Decision Making...
to Operational Integrity**

Background

The company specializes in Oil and Gas Regulatory Compliance, Emergency Response Notifications and advanced mapping and database applications. They use a combination of state of the art GIS tools, in-depth knowledge of government regulatory requirements and a highly trained and service driven team to create efficient compliance solutions. Their proprietary LOID (Land Owner Information Database) software is a leading edge tool that provides fast, complete and accurate stakeholder information to their clients at a lower cost than traditional methods. As part of their effort to continually enhance value to clients, they upgraded their LOID system into CORE - a holistic toolkit integrating LOID with other key information to enhance the decision making process for their clients.

The Issue

The company needed to upgrade their highly complex LOID application to the next technology and feature level. Their complex database needed to be re-worked and data migrated to meet these new and complex requirements. Standard database migration tools were not sufficient to handle both the migration of the tables from one structure to the next as well as deal with spatial data and required ArcGIS Server relationship classes (allowing the GIS system to create relationships between tables automatically). With three different databases as well as client data being merged into one solution, data validation was critical. Addresses needed to be standardized against both Canadian and US Postal rules; duplicate records needed to be flagged for review, phone numbers and email addresses needed to be verified, standardized and flagged for review if necessary.



Screenshot of **PLANWORX**

Solution

The company contacted i-Open Technologies to analyze the workflows and data to come up with a solution for the migration. Using EIDI, i-Open was able to build back end workflows and processes to allow data tables to be normalized, standards to be applied where applicable and flags to be raised where human intervention was required. Unique records were created for Stakeholders (corporate and individual) and duplicate records were identified and cleaned.

Result

i-Open worked with the company to successfully migrate almost a million records from one database to the other while maintaining existing and building new data, and standardizing critical data such as addresses, phone numbers, and email addresses.

The Challenge

The oil and gas services firms are faced with many challenges! Balancing business processes with constant customization of operational efficiency in a tactical environment can be a daunting task. Some of the common industry themes for improvements include:

- How do we improve drilling efficiency and predict events that adversely affect safety and cost – in near-real time
- No single service company provides the full set of data operators need to comprehensively understand drilling performance
- Inefficient drilling automation can have:
 - Financial Impact
 - Cause Delays in Well Completions or Abandonments
 - Unexpected Shutdowns
 - Safety Implications
 - Environmental Impact

The Solution

Drilling is one of the most critical, dangerous, complex and costly operations in the oil and gas industry. Extensive industry experience coupled with a solutions-oriented approach to the development of dynamic solutions, i-Open Technologies can provide your team with an Asset and Work Management solution at a greatly reduced Total Cost of Ownership. . . Essentially, track all your Work, your Equipment and your Personnel in a single unified environment. Fully hosted and completely managed. . . removes any need for IT resources and infrastructure.