



TRANSFORMING HEALTH AND SAFETY REPORTING TO DELIVER INSIGHT TO SUPPORT BUSINESS DECISIONS

A major international drilling company deploys a real-time solution for processing and presenting data related to health, safety and environmental events across its rig fleet.

A major international drilling company was looking for ways to better provide data for all stakeholders, including the C-suite. In coordination with IT, Health, Safety and Environment (HSE) leadership wanted to shift data capture and reporting from an Excel-PowerPoint workflow to a more data-rich, flexible and automated process.

Several years ago, Catapult worked with this company to build a variety of applications using Microsoft® SharePoint™, including custom tools to help solve business problems in the HSE and operational areas.

Catapult helped the company's IT department automate a number of business processes, including a process called an "HSE event solution." Built in SharePoint and integrated with InfoPath, employees use this solution to record "events" on drilling rigs in the field as they occur. This data was analyzed using complex Excel worksheets compiled in PowerPoint and shared with management and the executive suite monthly.

THE CHALLENGE:

After using the event solution for two years, the company asked Catapult to update the form to improve the quality of the captured data—increasing the number of required fields, adding new fields, and changing the approval processes to ensure each HSE form was fully completed. Because

the updated form provided new data points, the initiative prompted HSE to consider transforming the process even more to align with strategic directives. The company asked Catapult to create a new reporting solution using Microsoft Power BI, a suite of business analytics tools that connects data sources, simplifies data prep, drives real-time analysis and creates visualizations which make data easier to consume.

Catapult experts worked through an iterative development process with the company's HSE and IT staff to create a solution that could be used by each drilling rig. The solution was built to provide user-initiated views and reports via a personalized dashboard, including members of the company's C-suite.

The shift from an Excel-based process to an automated one driven by Power BI has moved the company closer to optimizing the HSE function. Instead of waiting for time-consuming analysis or monthly slide decks, key staff and management can access important HSE information immediately on desktop or mobile, and can dive deeper into rich data sets as needed to acquire accurate and timely information on which to base decisions.

TRANSFORMATIVE IMPACT:

- **Real-time Event Reporting**
From the field to the executive suite, facilitating rapid, data-driven decision making
- **Automated Event Processes**
Dynamic data capture to accommodate all kinds of events
- **Anywhere, Anytime Access**
Real-time event data available with reporting on all devices
- **Empowerment of Business Units**
System administrators within the business can create tailored visuals and reports
- **Integration of Multiple Platforms**
Allows visualization of company data in one place
- **Reduced Development Effort**
Reporting to drive efficiencies that better support the business while reducing costs

The company owns and operates one of the most modern, versatile and technically advanced fleets in the offshore drilling industry. They are focused largely on ultra-deepwater and high-specification jackup drilling opportunities in both established and emerging regions worldwide.

“ We are always looking for efficiency improvements, and the company’s +HSE Insights displays real-time HSE data efficiently with our global workforce. ”

Annette Prewitt
Vice President of Health, Safety, and Environmental