

Corvelle Service Offering Visual Analytics Implementation

Corvelle recently led a successful visual analytics software package implementation project for a mid-size Canadian oil & gas producer. Corvelle can produce similar results for your oil & gas company.

[Visual analytics](#) is an important tool for performance improvement in many industries including upstream oil & gas producers. This oil & gas project produced the following benefits:

1. Delivered incremental net revenue from increased well production to the bottom line.
2. Shifted the work of engineers to engineering and away from data gathering and manual data integration.
3. Eliminated the risk of:
 - a. Spending time on optimizing wells where no opportunity exists.
 - b. Implementing production enhancements that produce negative net revenue.

This visual analytics project produced a one-year payout for production engineering.

This project focused on solving the following common production engineering challenges:

1. Poor access to production performance, financial, asset characteristic and public data.
2. Excessive reliance on time-consuming, manually-crafted, complex Microsoft Excel routines for data integration.
3. [Frustrating inability to achieve business value](#) from the mountains of data being collected daily.
4. Risk of implementing production enhancements that produce a negative net revenue outcome due to:
 - a. A lack of adequate analytic data.
 - b. Errors in the data integration.
5. The limitations of Microsoft Excel as a graphing tool.

Corvelle Drives Concepts To Completion

This monograph explores the:

1. [Business value of visual analytics](#) to improve:
 - a. Well performance through reduced down time.
 - b. Productivity and morale of production engineers.
2. [Characteristics of a well-designed project](#) that delivers the business value of visual analytics.

Business value

The business value of using a visual analytics software package includes:

1. Presenting data visually as graphs for decision-making. Graphs make trends, unacceptable variances and looming problems unmistakably clear.
2. Reducing the elapsed time to business value in comparison to alternatives that require custom software development.
3. Eliminating use of Microsoft Excel routines for data integration and for data presentation.

This visual analytics project produced a one-year payout for production engineering.

Audience

Building an understanding of visual analytics software package implementation projects will typically interest oil & gas professionals in the following disciplines:

1. Engineers
2. Management for performance measures
3. Reserves staff
4. Acquisition & divestiture staff

Visual analytics software package implementation project description

A typical visual analytics software package implementation project consists of the following phases that Corvelle can deliver for your oil & gas company.

Visual analytics software package selection

1. Documenting visual analytics business requirements:

- a. Functionality
 - b. Performance
 - c. Required data sources
2. Documenting visual analytics software package selection criteria:
 - a. Software capability
 - b. Vendor capability and track record
 - c. Acquisition and operating cost
 3. Selecting a visual analytics software package
 4. Piloting the selected visual analytics software package
 5. Determining the visual analytics software package implementation approach:
 - a. Change management, training, communication
 - b. Software development and configuration

Visual analytics software package implementation

1. Install the visual analytics software package
2. Integrate the visual analytics software package with in-scope data sources
3. Schedule and deliver training and one-on-one support
4. Configure visual analytics software package graphs and reports:
 - a. Document typical workflows
 - b. Develop supporting graph and report templates
5. Identify, prioritize and resolve data quality issues and software package defects
6. Identify, prioritize and develop software package enhancements

More information?

For more information on this and other ways that Corvelle helps oil & gas producers improve performance and net income, please contact [Yogi Schulz](#).