Industry
• Mining

Products
• Microsoft Silverlight
• Microsoft SQL Server
• Neudesic Neuron·ESB

Challenge
Company managers needed a dashboard to display, in real-time, key data and metrics that affect their mining operations. With quick access to field data, managers would be able to improve the efficiency of their operations, and, ultimately, increase the mine's ore output.

Solution
The Company partnered with Neudesic to create a real-time dashboard that displays operations data in a Silverlight application, either in graphic form or as a chart. The application has dual language capabilities and predefined roles that display KPIs most relevant to that role. An option to export data into an Excel file gives users the ability to access and analyze data offline when they need it.

Benefit
• Mine operations managers can view their data on a Silverlight application, analyze it and extract actionable information
• The configurable nature of the existing subsystems allows for all regions to re-use the same solution
• Lays the foundation for the Company's efforts to standardize its reporting systems and processes

Real-time Operations Data Dashboard

One of the world's largest gold producers, the Company has more than 34,000 employees and contractors worldwide, and produces 6.5 million ounces of gold per year from proven and probable reserves of approximately 93.5 million equity ounces. The Company also mines copper, silver and zinc from operations in the United States, Australia, Peru, Indonesia, Ghana, Canada, New Zealand and Mexico.

As an industry leader, the Company maintains high standards in environmental management, employee health and safety and the creation of value and opportunity for host communities and shareholders.

The Company partnered with Neudesic to create a real-time dashboard that displays operations data in a Silverlight application, either in graphic form or as a chart.

Project Highlights

• Company managers needed a dashboard to display key data and metrics that affect their mining operations.
• Neudesic created a real-time dashboard that displays operations data in a Silverlight application, either in graphic form or as a chart.
• The solution team gave the application dual language capabilities and predefined roles that display KPIs most relevant to that role.
• To meet the Company's need for a standardized reporting system, Neudesic developers used extensible architecture that includes Neuron□ESB
• Mine operations managers can now view their data on a Silverlight application, analyze it and extract actionable information.
• This project lays the foundation for the Company's efforts to standardize its reporting systems and processes.

Real-time Operations Data Dashboard

The Challenge

Company managers needed a dashboard to display, in real-time, key data and metrics that affect their mining operations. With quick access to field data, managers would be able to improve the efficiency of their operations, and, ultimately, increase the mine's ore output.

In addition to displaying the date, this dashboard needed to consolidate data into a centralized source for analysis at both regional and corporate offices. The architecture would have to be extensible so data sources from other regions and future components would be included in the calculations and existing components that provide information across the enterprise.

The completion of this project would provide the foundation on which the Company could begin to standardize its reporting systems and processes for each region.

The Solution

The Company partnered with Neudesic to create a real-time dashboard that displays operations data in a Silverlight application, either in graphic form or as a chart. The solution team took into consideration the needs of end users at the regional level, giving the application dual language capabilities and predefined roles that display KPIs most relevant to that role. An option to export data into an Excel file gives users the ability to access and analyze data offline.

To meet the Company's need for a standardized reporting system, Neudesic developers used extensible architecture that includes Neudesic's Neuron·ESB. Components written for the enterprise can be configured and subscribed to Neuron·ESB, which allows functions to be accessed in other components. This ensures calculations and other operational KPIs are the same throughout the enterprise.

The Benefit

The Company's mine operations managers can view their data on a Silverlight application, analyze it and extract actionable information. The solution's architecture is supported by Neuron·ESB, which promotes loose coupling via low latency, real-time asynchronous communication.

This project lays the foundation for the Company's efforts to standardize its reporting systems and processes. By reducing the number of systems and processes, it will realize more efficiency within their support structure.

The infrastructure supports future extensibility by allowing components to be added with no impact on existing subsystems. The configurable nature of existing subsystems allows for all regions to re-use the same solution. This project lays the foundation for the Company's efforts to standardize its reporting systems and processes. By reducing the number of systems and processes, the Company will realize more efficiency within their support structure.