mototech GROUP

Study Cases

Virtual Drive: Document Manager

Search, process and analysis of high-volume data in real time with the Mototech Group Big Data platform.

The Requirement

- Searches the content of client's documents.
- Improvement of user experience, reducing the time spent searching their scans.
- High availability of the solution.

Why Virtual Drive?

- Virtual Drive was implemented in order to offer a high added value service to clients.

Achieved Results

- Virtual Drive centralizes, contains and offers indexation and search services to each application of its clients.
- The clients execute searches on metadata and/or the content of scanned documents.
- The clients define their own types of documents, metadata and filters.

The Business

The National Copper Corporation of Chile (Codelco) is a Chilean state-owned company engaged in copper mining, the largest company in the world in its category. Codelco operates eight work centers, located throughout Chile; HQ is in Santiago. Codelco contributes the most to the Chilean economy, with sales of US $ 17.5 Billion in 2011.

The Problem

The Mine Ministro Hales is an opencast operation only 10 km from the town of Calama, where 150,000 people reside. Any mine explosion, if weather conditions are not right can cause catastrophic environmental damage for the people and for the company, whose commitment to safety and the environment is vital for the continuity of the operation. The challenge is finding an economically efficient solution to consolidate information from all sources data from weather stations, positioning reports of explosives, geo machinery, number of personnel in the mine and many other variables, so that upon the no ecological disaster explosion occurs.

The Solution

The Big Data platform from Mototech Group for building applications for extraction, processing and data analysis that will allow solving the challenge posed.

By real-time data extracting from the forecast weather systems and climate stations, geo positioning of the extraction and transportation machines and geolocation of the personnel among the most important, it is possible to develop tools for data analysis and sources integration that allow taking decisions and actions in the highly dynamic time windows that are presented.

Planned Benefits

Both the company and the population benefit from being informed in real time of any meteorological event that could be harmful to the mine facilities.

Maintaining the environment and nearby population's safety as well as avoiding the loss of resources (material, human, time, etc.) are the positive attributes that utilizing the Mototech Group solution offer.

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