



The power of one.


Large mining company implements Eka Control Systems and Eka QMS to improve throughput

Background

A large mining company in Australia wanted to leverage the latest technology to drive efficiency and increase production and create a better platform with room for growth. It needed a more accurate way to track material – to know where it came from and where it went. The existing technology provided insight into the volumes that got moved but couldn't answer the question of which truck ended up where and what the constitution of that specific cargo was. The company needed insight into what cargo would look like if the company reclaimed piles in a specific way.

Business challenge

The traditional control philosophy was inflexible and did not respond to changing business requirements without major engineering changes. Process visibility was poor, and users were unable to respond to the changing dynamics of inventory and stockpile management. The company found it difficult to validate production information from control systems. Errors in measurements and questionable business rules made reports hard to reconcile. In addition, material and quality tracking challenges made scheduling and predictability difficult and time consuming, decreasing efficiency and increasing delivery risks.



Large mining companies are continually looking for efficiency improvements in physical stacking and reclaiming materials at their various mine and port sites. Increasing reclaim rates by even half a percent provides tremendous benefits, including increased production revenues and profits.

Business solution

The company implemented Eka's Control Systems to improve site performance, visibility, tracking, and quality management. The solution creates a digital twin of the material life cycle through accurate 3D modelling and movement processes. The digital twin is used as the basis for advanced control techniques applied to stacking, reclaiming, yard rate, blend rate control and logistics. The modelling and tracking of material provides location accuracy to a level not seen before, thereby creating new possibilities for quality tracking and traceability.

Eka Control Systems creates a real-time 3D volumetric model of stockpiles for flexible machine control, and generates 3D models of mobile machines and structures to provide positional awareness for protection and optimization of equipment movements. In addition, Eka QMS was implemented to provide accurate tracking of material quality in three dimensions and provide accurate material tracking.

Business benefits



Increased market efficiency

The company's buyers no longer waste 20% of their time calling, emailing or faxing suppliers. Supplier Connect enables real-time analysis, calculation and publishing of price information, addressing the inherent inefficiencies with large, more complex pricing strategies. Business partners can update, upload or view documents, analyze transaction histories and conduct negotiations online. Automatic updates provide real-time views of contracts, PO status, payments, tickets, etc.



Increased corporate efficiency

Gaining 20% more time enables the company to reallocate staff to highvalue activities to evaluate new suppliers, better serve existing suppliers, and improve contracts. All trading partners have a single, accurate picture of the business, decreasing confusion and enabling faster, better collaboration.



Real-time access

Automating processes decreases time spent communicating with suppliers, reducing the cost of each transaction while removing latency of information sharing. They no longer waste time chasing down information on multiple emails and phone calls, keeping teams focused on the higher value activities.



Better service levels

Eka's Supplier Connect removes manual responses to service requests and inquiries, enabling faster responses to suppliers and improving communication and collaboration. Business partners have more autonomy to update, upload or view documents and transaction histories (orders and balances) and can conduct negotiations online, making it easier for them to do business with the company.



Increased visibility and communication

The company and its suppliers have a single, shared view of information, including alerts and notifications when disruptions occur, improving supply chain performance and inter-company interactions. They can negotiate in real time, working through contracts and pricing instantly instead of waiting hours or days for return phone calls or emails. They can analyze options across suppliers quickly and onboard new trading partners easily.



Improved compliance controls

Extended automation of manual tasks creates a comprehensive audit trail. Analysis of available data facilitates more informed decisions around selection of counterparties.



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Eka supports over 100 customers globally and has proven industry expertise in helping customers achieve digital transformation, solving complex business challenges in an environment of continuous change.

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