



The power of one.

Metals and mining

Connect every step from ore to manufacturing. One platform for your entire business – Base metals, refined, steel, scraps, concentrates and more



When ore gets
connected to
manufacturing

Overview

Volatility in commodity markets has become the order of the day. Metals value chain participants such as miners, refiners, smelters, producers, recyclers, processors, fabricators, and traders that manage base metals concentrates and secondary raw material (electronic scrap) have seen prices fluctuate dramatically. Sudden swings in metals prices impair forecasts, hinder risk management, and negatively impact bottom lines. Slim operating margins and high price volatility leave little room for error.

Continually changing positions and exposures

To maximize profits, metals companies need to know positions and exposures in real time. As commodity prices change, they need to see exactly how this affects operating margins so they can take appropriate actions. The ability to run real-time scenarios provides a competitive advantage.

Complex supply chains

It is important to accurately track quantities and costs throughout the supply chain. Particularly with concentrates, metals supply chains can be very complex and managing these commodities can be a very manual, error-prone process.

Treatment, refining, penalties and other charges

Companies must keep a record of several complex charges owing to treatment, refining, penalty, price participation, sampling charges and more. Some of these charges (treatment, refining) could be assay or price based and may include an escalator or de-escalator.

Accurate metal balance

Miners, smelters, and refiners need to maintain an accurate metal balance in all metal forms (concentrates, processed, and finished metal) across business processes. It is critical to these companies that they streamline their operations and eliminate waste. Therefore, it is crucial that an accurate and timely metal balance is determined and reported across the enterprise to ensure that any metal losses are minimized and exposures to market prices are adequately contained.

Assay management

Payable metal content differs for each element and trade. In addition, the payable metal changes throughout the trading lifecycle as different assays are provided by the supplier, such as standard assay, pre-shipment assay, and provisional assay. Capturing and tracking assay finalization rules through various stages of delivery and through different assay types is complex.

Quotational Periods

Accurate price management of multiple payable elements is complicated as pricing is based on Quotational Periods QP. Based on several factors, QP can range from a single day to a few weeks or a month in future.

Track and manage warrants

As markets grow more volatile and inventories increase in size, companies trading metals often struggle to manage their position effectively against converted warrants and physical stocks.

A real-time, integrated view

Visibility of stockpiles and machines at mines and terminals is not enough. A complete, integrated view that includes process and quality information is needed for real-time decision making, dynamic responses to process variations, and efficiently satisfying order specifications.

Eka's Metals and mining solution has been designed and developed in close collaboration with leading companies in the mining, smelting and refining industries that extract minerals and ore to process it into concentrates for further refining into metal.

Eka Cloud Platform

Eka's platform for trading and risk, financial management and supply chain helps metals and mining companies optimize business processes, gain efficiency and explore new opportunities.

Extend your value chain data with powerful enterprise applications

Unlock the value of your data from sourcing to trading and risk, supply chain and financial management with 50+ mobile applications.

Analytics for better visibility and faster decisions

Perform on demand analysis using trusted data with custom dashboards, drill downs, visualizations and embedded machine learning algorithms for anomaly detection.

Automate business processes faster

One platform makes it easier to transform complex processes into applications. Built-in schedulers, workflow engine and custom applications help drive productivity.

Integrate data and systems

20+ built-in connectors and open APIs enable you to easily bring external data from ERP systems and other sources including market, weather, compliance and your database.



Single open cloud platform



Low code/no code automation



Common data model



Role based data-driven insights



Mobile engagement, access everywhere

Security

Eka's platform complies with industry standard security guidelines, including SOC 2 Type I, SOC 2 Type II and GDPR. It has single sign-on via industry standard authentication protocols, encryption of data in transit and at REST, and is integrated with best-in-class DLP, EMM and archival partners. It has been validated under Veracode Verified Standard status.

Faster and more informed decisions with Eka's CTRM

Prior to working with Eka, Boliden relied on older technologies for commodity trading and risk management. Multiple systems were being used to manage the commercial needs of its mining and smelting operations including raw material purchasing, tolling, risk management, hedging, and metal balance valuation.

With Eka's solution, Boliden's commercial metals operations are all managed on one single platform. Raw material purchase, concentrates sales, tolling, metal balance valuation, and risk management functionalities are integrated with Boliden's systems and business processes giving them a transparent view of the business. In addition, Boliden has the ability to manage purchase and conversion contracts simultaneously, and manage metal debts, pledges, and speed pricing.



Better and risk aware decisions

The Eka Metals solution was deployed across multiple Superior Essex locations in the US and Europe. Key elements of the implementation included the hedge accounting module, derivatives trading, and business analytics and reporting, along with seamless integration with their ERP system.

Superior Essex can now electronically designate trades at the time of creation and include them in the hedge accounting analysis. For auditing compliance, the prospective and retrospective testing of these hedges is automatically run by the system and can be monitored continuously, meeting the International Financial Reporting Standards.

Eka's consolidated reporting provides central visibility to open positions across the various geographical regions and exchanges and can be assessed on a real-time basis, not only at month's end, enabling better decision making for senior management.



Key solutions for metals and mining

Eka's metals and mining solutions deliver the functionality you need to solve your most pressing commodity management challenges. Improve trade margins, optimize your supply chain, collaborate more effectively, improve risk management, and automate processes to increase operational efficiency.

Commodity Trading and Risk Management (CTRM)

Better manage contract terms and conditions, pricing, assaying, umpiring, and settlements as well as risk management including hedging, P&L, and mark-to-market computations. The advanced analytics layer processes data and transactions to help gain insights previously unavailable.

Site Automation Control (SAC)

Site operators can graphically see all assets, and effectively plan receipt, transfer and loading tasks. The software provides site management and control that improves product integrity, uniformity, and production efficiency, leading to a reduction in operating costs.

Commodity Site Manager (CSM)

End-to-end solution to manage the physical processing of raw materials such as coal and iron ore in terminals. Manage the physical operations of your bulk commodity handling sites including stock, cargo receipt, shipment, and billing. Road, rail, and shipping transactions are all supported.

3D Anti Collision

Eka's 3D Anti Collision protects mobile machines from potentially hazardous interactions with other mobile machines and structures at a terminal. Using solid modelling to provide full 3D anti-collision protection, the software proactively prevents collisions and allows adjacent machines to safely work together minimizing production downtime.

3D Stockpile Manager

Get a complete 3D view of stockpiles. Movement data — including source and destination, intermediate equipment, and start and end times — are tracked with each commodity movement. Detailed analysis tools to visualize, group, and calculate quality results are also included. In addition to a historical view of past quality results, you can simulate future results when planning stacking and reclaiming operations.

Quality Management System (QMS)

Tracks material quality through processes and in stockpiles. Calculates quality in stockpile volumes and predicts delivery based on selected outloading scenarios. Accurately determines cargo and contract delivery.

Business collaboration

Communicate with suppliers in real time to manage sale, purchase, and delivery of produce. Connect directly with customers in real time and manage all queries on contracts, invoicing, and ticketing in one place.

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Asset classes

50+

Standard integrations

50+

Applications



The power of one.



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To learn about how Eka can add value to your operations.

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About Eka Software Solutions

Eka Software Solutions is a global leader in providing digital solutions for Trading & Risk, Supply Chain Management and Financial Services driven by Cloud, Blockchain, Machine Learning and Analytics. The company's best-of-breed solutions serve the entire trading value chain across agriculture, energy, metals and mining and manufacturing markets.

Eka's Cloud Platform provides advanced analytics, one source of data and an automation engine, providing maximum flexibility and investment protection as business needs and market requirements change. Eka is committed to ensuring its 100+ clients can work from anywhere and collaborate across ecosystems within a secure and trusted environment.

For more information, visit www.eka1.com and follow us on [LinkedIn](#) and on [Twitter](#).