



Is Pulse monitoring the heartbeat of YOUR mining operations?

The Australian Mining Review proudly speaks with the Australian software company that developed the world's first mining-specific ERP system and delivered the 'digital mine'.

T ALL started back in the heady days of the late 1980s. It was a time when popular spreadsheet software Lotus 1-2-3 ruled the market, the Macintosh II computer had just been released – supporting colour other metalliferous resources, as well as graphics for the first time – and the most be- coal, and now also renewable energy proloved gaming platform worldwide remained duction. a battle between Sega and Nintendo.

Meanwhile in Australia's Hunter Valley region in NSW, framed by century-old vineyards and coal mines that first began operating in the 1790s, a small group of local and analysed has become infinitely more dicomputer programmers started creating custom-designed software programs so that mining companies could 'computerise' their data. Think basic data entry tools and chine sensors; the environment, mobile and spreadsheet information as revolutionary for businesses at the time.

Fast forward thirty-five years to today and the Hunter city of Newcastle is famous as the world's largest coal export port while the information technology sector has been almost inconceivably transformed.

Computers worldwide are now almost all interconnected, telecommunications have be- Capturing such data, of course, is one thing, come wireless, and virtual reality work and but integrating, analysing and interpreting play spaces are being deployed.

customised software systems for Australia's the strategic, operational and tactical levels mining sector – Pulse Mining Systems – has of the business to be able to manage the also undergone a seismic shift in product performance of their operations, or particdevelopment and technological advance- ular business units; sites, facilities or teams, Our Pulse Analytics tool is useful for all levment.

Planning) system has evolved into a com- mine management reporting system – Pulse plete, fully integrated mining management Analytics – was first developed more than system with mobility, analytics, and the lat- five years ago. With more than twenty readyest digital tools for paperless, automated workflows and real-time visualisations.

in response to the unique needs of mining actionable Key Performance Indicators on businesses, the Pulse ERP is the only min- business intelligence (BI) dashboards.

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ing-specific ERP system in the world and is used by leading overseas and local mining companies to manage underground and surface operations involving gold, silver and

Where once the data that mining companies were able to access about their operations was promising but limited, these days the scope of information that can be collected verse and sophisticated.

Data from an array of sources, such as matracking devices and the Internet of Things (IoT) more generally, means that companies can have their fingers on the pulse of what is happening in almost any sphere of their business. Captured and validated within the Pulse system, this data becomes the 'single source of the truth' in auditable recordkeeping that the mining business can depend upon.

this data in time for effective decision making by management is another. What mining in virtual real time.

In fact, the Pulse ERP (Enterprise Resource Responding to this need, the company's to-go setups in the Pulse Analytics suite, the data captured and analysed from any sources (any ERP system, software, sensors, Australian owned and developed specifically OEM apps etc) is immediately displayed as

Extensively field-tested in live mining operations, the dashboards are powerhouses of information: visually rich, with charts and data indicating at a glance the current status of user-defined metrics, such as actionable KPIs for particular sites or analyses of different business functions, right down to key parts inside machinery and equipment.

Pulse Analytics has become so compelling worldwide that the dashboards are used to optimise mining production as far away from Australia as Canada and Brazil and have been deployed in manufacturing operations owned by the Australian industrial giant, Visy.

The Pulse ERP is configurable to manage all mining methodologies, resource types, ownership structures, and styles of venture, at multiple sites, anywhere in the world.

Ash Bosworth, managing director and CEO of Pulse, explains the company's ethos when it comes to partnering with mining companies and the benefits the software can bring.

"It's all about getting value out of the information you have," he said.

"Pulse engages with our clients in a very in-Yet the company behind the first wave of companies needed is for management at depth way, so that we know exactly what it is mining companies need and would most benefit from.

> els of an organisation – from a CEO who is interested in KPI and trend charts and other graphical representations of their data - to people at the operational level who need to drill down into a root cause analysis and get right into transactional information, and the tactical management level in between where people might want to see both sides of these things.

The back-end software design by our team is really the strength of the tool and allows us to develop things very quickly and very easily, in an agile manner, no matter what the data is structured like or what the source is.

Pulse Analytics provides the visibility needed for faster, evidence-based decision-making. Our customers almost always experience a substantial ROI within the first few months.

Indeed, it is Pulse Mining Systems' team of behind-the-scenes experts that is perhaps key to its ongoing successes and capacity for innovation and fast deployment.

With now more than sixty staff including software and app developers, business analysts at the company are typically transitioned from prior roles in the mining sector in areas such as mining maintenance, production, finance and procurement. This means they bring their mining expertise and vears of experience into the design of the Pulse system and can easily interpret and anticipate what miners want and need.

As the company consolidates its successes to date and actively helps junior and mid-tier mining operators with fully digital systems for their new businesses to grow into, it is also heeding the call to work with established mining companies where technology may be aging. There are still many older mining companies yet to benefit from using the very latest automation tools and mobile applications and reaping the benefits of having every aspect of their business analysed, visualised and improved upon in real-time.

To book your free demonstration of how the Pulse system would transform your mining business, go to: www.miningsystems.com/resources/demo



## **MINING BUSINESS TECHNOLOGY FAQS**

## What is enterprise resource planning (ERP)?

Enterprise resource planning (ERP) is the integrated management of main business processes. The state-of-the-art ERP system, like the Pulse ERP for mining, offers a fully integrated, real-time, complete business management system. The Pulse modules are separable, however, with Pulse Production used widely on its own for production management and Pulse Analytics adopted internationally for turning complex mining data scenarios into easy-to-read BI dashboards.

## What is business intelligence (BI)?

Business intelligence (BI) formally comprises the strategies and technologies used by enterprises for the data analysis and management of business information. Pulse Analytics is an agnostic BI offering, meaning that data from any number of different sources can be integrated into the dashboard visualisations of analysed data. Pulse Analytics has more than 20 dashboards ready-made for mining, with custom dashboards available plus tools for building your own dashboards from data stacks.

## What is the meaning of 'digital mine'?

The term 'digital mine' is used in a variety of contexts for the roll-out of a mining company's vision for digital transformation. This broadly means gathering data from sources such as connected machinery and human inputs at the frontline, ending paperwork and spreadsheet dependencies, having real-time, actionable data, and other attributes available to companies using the Pulse ERP to achieve what Deloitte described generally as "data-driven planning, control, and decision making".

PROUDLY 100% AUSTRALIAN-OWNED AND DEVELOPED, THE PULSE SYSTEM IS PROVEN IN THE FIELD FOR MORE THAN 35 YEARS AND STATE-OF-THE-ART FOR 2023.



Pulse is the only fully integrated ERP system developed specifically for mining. Manage and optimise every aspect of your business with IoT and B2B connectivity, mobility, paperless workflow automation, live tracking, and real-time analytics.

Ask for a demo

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