

# Underground Production

# ANALYTICS

DATA  
DRIVEN  
DECISION  
MAKING

- Work Order Analytics
- Underground Production Analytics**
- Gate Road Integration
- Longwall Integration
- R&M Spend Analysis
- General Cost Analytics
- Unit Cost Analytics
- Production Analytics
- Production Self-serve Analytics
- Function Cost Analytics
- Stores Inventory Analytics
- WHS Analysis
- Machine Data Analytics
- Finance Self-serve Analytics
- HR Analytics
- Processing Analytics
- Skills & Training Analytics
- Sales & Marketing Analytics
- Quality & Logistics Analytics
- Asset Life Cycle Analytics
- Accounts Receivable Analytics
- Accounts Payable Analytics
- Supplier Analytics

## PULSE MINING SYSTEMS ANALYTICS

The Pulse Mining Analytics Product Suite enables Mine Management to make better decisions by delivering valuable business insights in a systematic, KPI targeted approach. These low cost, 'out of the box', smart visualisation products are built by industry experts who understand the needs and language of mining. Each product has a specific value focus across the mining cycle and facilitates a starting point to first identify issues and then continue on to diagnose and drive decisions that directly impact KPIs. These mobile friendly, cloud based tools have all the self-service views you expect to drive your enterprise wide strategic, tactical and operational data mining, one manageable piece at a time.

### HOW ARE KEY PRODUCTION MEASURES PERFORMING RELATIVE TO BUDGET?

### WHEN AND WHERE ARE THERE SHORTFALLS IN PERFORMANCE?

### WHAT VARIANCES ARE THERE ACROSS SITES, PROCESSES, SHIFTS, AND EQUIPMENT?

### WHAT IS CAUSING THE TOP PRODUCTION DELAYS?

### WHAT CHANGED IN REGARD TO OUR UTILISATION AND AVAILABILITY?

### WHAT ARE THE LEADING CAUSES OR DOWNTIME? WHEN AND WHERE DO THESE CAUSES OCCUR?

### CENTENNIAL COAL

Through their 'Step Change Productivity' program Centennial Coal are striving for operational excellence and maximum efficiency in their production processes.

Working closely with Centennial by using rapid product prototyping and an agile discovery development process, Pulse Mining has developed Mining Analytics solutions for application in mines everywhere.

*"The success of the project has resulted in Centennial Coal proceeding with the development of 'Tactical Analytics' across all mining process types in operation at all mines."*

**BRUCE DAVIES** - Centennial Coal  
Process Engineering Superintendent





# UNDERGROUND PRODUCTION ANALYTICS

Pulse Mining Systems' Underground Production Analytics is a mining-specific analytics solution that enables mine leadership teams to focus on increasing productivity through smart visualisation of a range of key production measures including:

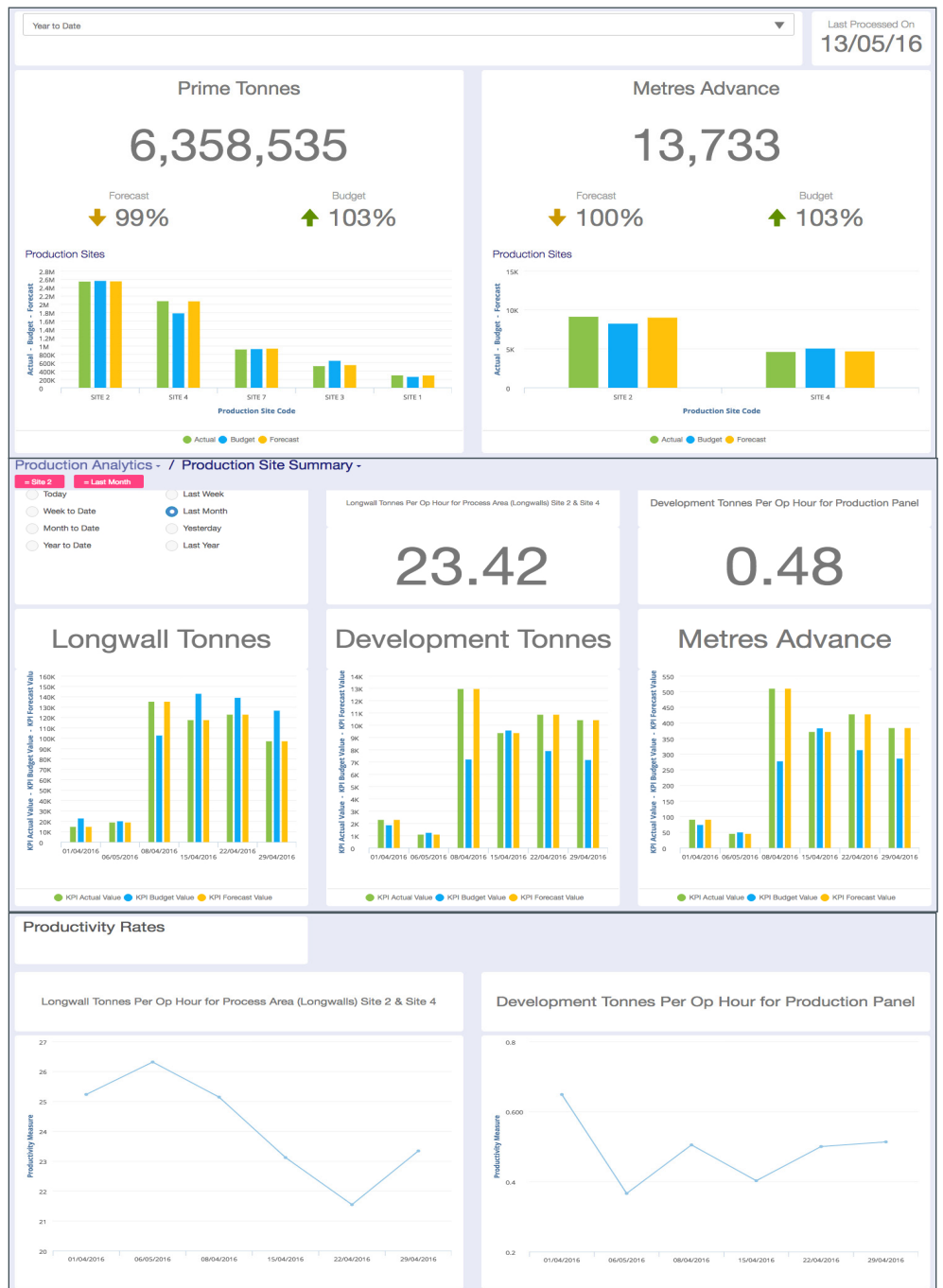
- Production statistics (budget, sites, rates, equipment, processes, locations, material, shift, time, etc.)
- Production activities (operating hours, cutting time, downtime, rehandle, etc.)
- Productivity measures (utilisation and availability)
- Production costs

**LOW COST, OUT OF THE BOX PRODUCTS RESULT IN FAST DELIVERY AND RAPID INTEGRATION**

**REMOVE KNOWLEDGE SILOS AND REALISE A SHARP FOCUS ON WHAT MATTERS MOST ACROSS DATA BOUNDARIES**

**INTUITIVE, MOBILE FRIENDLY, CLOUD BASED TECHNOLOGY**

**BUILT BY INDUSTRY EXPERTS WHO UNDERSTAND THE NEEDS AND LANGUAGE OF MINING**



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