



# Pitram for Surface Mines

**Pitram is a management and reporting tool that turns data into information.**

Pitram can be configured to the needs of any operation at any stage of the mining process. A variety of data capture and integration methods allow it to operate with or without a central control room.

“Since its implementation, Pitram has assisted Cayeli to double the amount of mine activities achieving targets. Of the mine activities monitored, there has been a 10% average increase in productivity. Cayeli management is very pleased with the program and the results that it has helped to achieve.”

**Phil Jay, Mine Manager, Cayeli Bakir Isletmeleri, Copper and Zinc Mine**

## Reduce costs and increase productivity

Pitram provides a comprehensive view of a mine’s activity, enabling fast and informed decision making.

- **Achieve schedules and budgets with live monitoring and optimisation of resources**
- **Use high precision machine guidance or HPGPS** to accurately perform activities such as drilling, excavation and loading
- **Ensure fast and accurate end-of-month reporting and reconciliation** using validated data and automated reports
- **Easily track material flow** throughout the mine for accurate stockpile levels and grade information
- **Increase asset utilisation** by monitoring locations and cycle times
- **Ensure accessibility to all staff.** Pitram can be deployed onsite in multiple languages
- **Immediately correct variations to the shift plan** by monitoring activity status and idle time

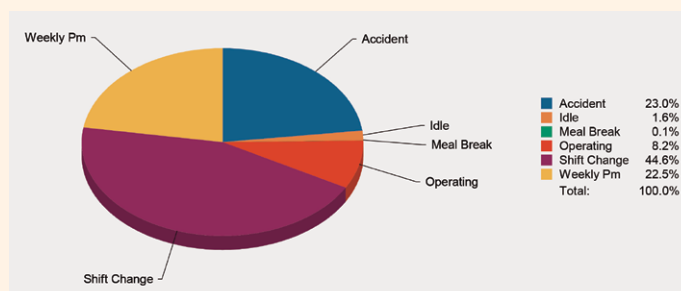


*Pitram includes high precision machine guidance capabilities.*

## Comply with mining plans and performance targets

The Shift Planner module and its reports improve resource allocation and asset utilisation.

- **Make fast and informed decisions** by monitoring progress of the mine shift plan
- **Achieve shift production targets** by tracking and monitoring critical tasks. Identify tasks behind schedule and take corrective action



*View breakdowns of asset utilisation.*

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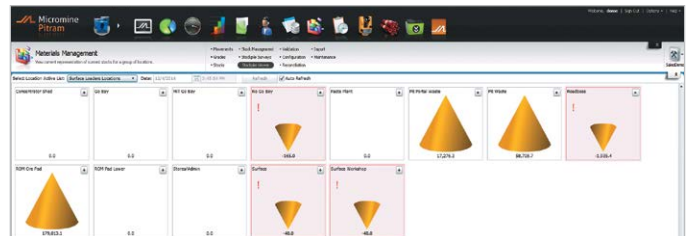


Visualise the mine operation in real-time 3D.

## Access information and integrate systems

Pitram acts as a central location for data from different sources, providing easy access to more information.

- **Integrate with third party solutions** including SAP, Sandvik Automine, QlikView and Loadman
- **Visualise mine activity in 3D**
- **Position dashboards** around the mine to display critical metrics and reports
- **Access information from anywhere** using a secure web browser

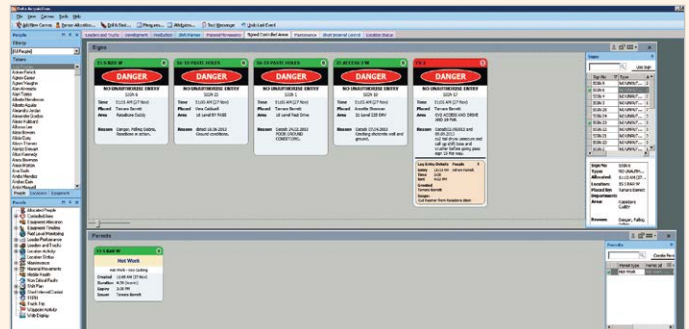


Instantly view stockpile levels and grades.

## Provide and maintain a safe working environment

Pitram helps minimise, isolate and eliminate risks.

- **Facilitate emergency procedure coordination** through a central control room
- **Identify qualified equipment operators** by tracking certifications and licenses
- **Monitor controlled and barricaded areas** by managing personnel access and exposure time
- **Instant maintenance alerts** through electronic prestart checks
- **Incident review and process improvement** through analysis of historical data
- **Protect personnel and equipment** with proximity detection and exclusion zone monitoring



Monitor controlled and barricaded areas.



**MICROMINE**  
Intuitive Mining Solutions

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