



Pitram: Pitram Optimum

Pitram is a mine control and management reporting solution that records, manages and processes mine site data in real-time. By converting data into meaningful information, Pitram provides a thorough overview of a mine site's activities and increases managerial control over an operation. Greater control allows key personnel to increase production, lower production costs, and improve safety and business intelligence capabilities.

Comprised of intuitive asset, personnel and material tracking, safety, grade and stockpile management, real-time view, planning, optimisation, reporting and analytics capabilities, Pitram offers mining operations of all sizes a scalable and flexible solution that can be adapted as a site grows.

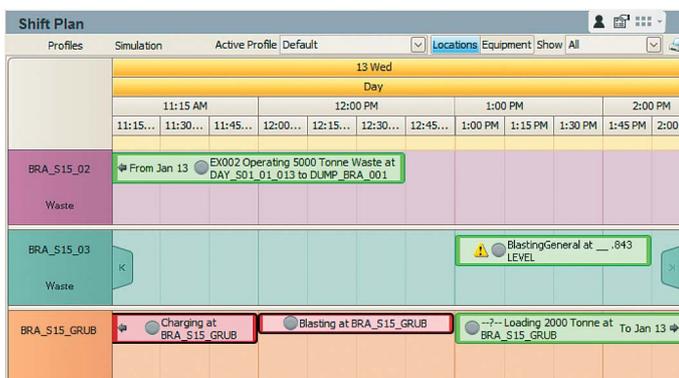
The Pitram product suite includes four programs which offer varying functionalities; Pitram Fleet Manager, Pitram Report, Pitram Control and Pitram Optimum. By providing a range of applications, MICROMINE has ensured that every mine site has access to a Pitram product that is relevant to their specific requirements and budget.

What is Pitram Optimum?

Pitram Optimum is the most advanced solution within the Pitram product suite and is suitable for the most complex of operations. Fully automated and containing the more sophisticated Pitram modules, Pitram Optimum integrates production planning and optimisation to improve the implementation of mine plans to maximise asset utilisation and efficiency.

Like Pitram Control, Pitram Optimum can be used with or without on-board hardware, meaning that data can be sent to the Control Room via manual log sheets, voice communication or automated methods which utilise GPS or tagging technology to determine equipment and personnel locations.

Pitram Optimum is the solution of choice for organisations that require maximum control over an operation to ensure reduced costs and increased production. Through advanced functionality designed to assist complex operations, Pitram Optimum provides Mine Supervisors total control and the most thorough overview of a mine site's activities. Pitram Optimum's Shift Planner module, which is exclusive to this Pitram product, is key to allowing informed decisions to be made about both current and future shifts, and mine events.

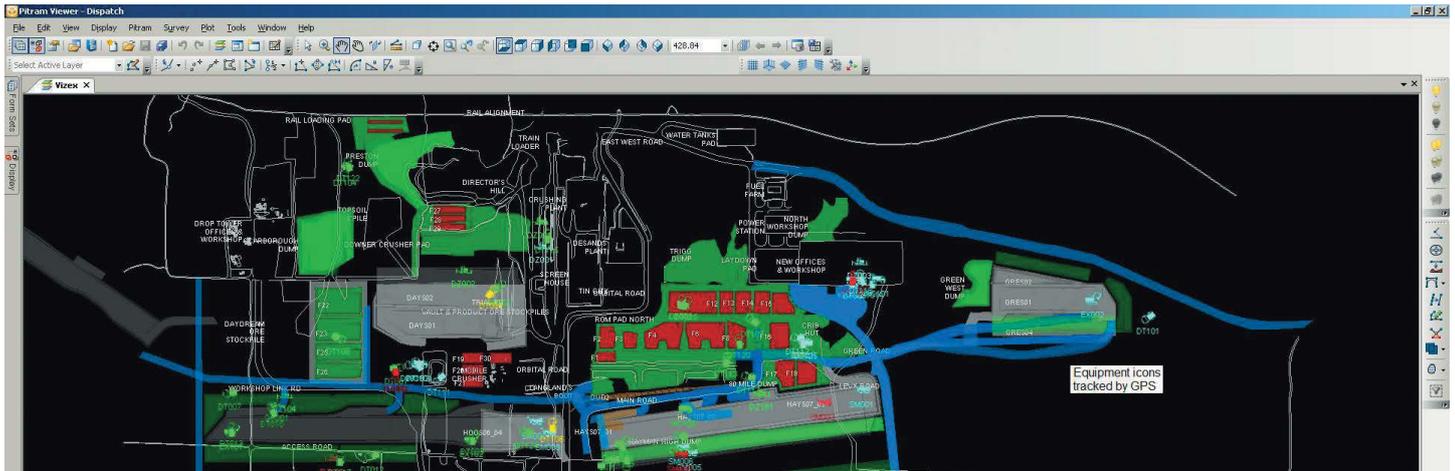


Pitram Optimum's interval control components plan and track shift activities for up to a week.

Benefits

- Real-time feedback related to shifts and mine activities allows users to compare 'where you should be' and 'where you are', providing the power to correct deviations from plans.
- Through intuitive equipment allocation, Pitram Optimum optimises production, reduces wait time, and helps sites follow shift plans according to design or blending requirements.
- Business targets can be achieved at the lowest possible cost, maximising profits.

Pitram: Pitram Optimum



3D visualisation of the mining operation.

Features

Pitram Optimum includes all the functionality of Pitram Report, Pitram Fleet Manager and Pitram Control. The following features are unique to Pitram Optimum:

- Pitram Optimum's Shift Planner module contains short interval control components which plan and track activities shift by shift for up to a week. These tasks can also be distributed directly to the equipment operator's mobile device.
- Short-interval control functionality forecasts the current performance of each task. Any exceptions to the plan are highlighted so that timely action can be taken.
- Includes a dynamic planning environment which is used to manage discrete work activities.
- Real-time tracking of production plan progress.
- Installed on equipment, mobile computers track allocated tasks and provide real-time feedback to the operator and control room.
- Using the production plan as input, various hauling scenarios can be simulated to determine the optimal shift configuration and predict the shift outcome.

Flexible and Scalable Solution

Because all mining operations are different and have varying needs, Pitram Optimum is a flexible solution that can be adapted according to an operation's specific requirements. This means that no matter how large or small an operation is, where the site is located, or what commodity is being mined, Pitram is suitable for all operations.

Pitram uses the same production and reporting database for its entry level Pitram Report solution as it does for its high-end automated Pitram Optimum solution. The value in the software, training and the work invested in implementing the original solution is therefore retained when an operation upgrades to a more advanced Pitram solution.



MICROMINE
Intuitive Mining Solutions

www.micromine.com

MICROMINE Corporate
174 Hampden Road
Nedlands WA 6009 Australia
T: +61 (0)8 9423 9000
E: marketing@micromine.com

MICROMINE Africa
MICROMINE Brazil
MICROMINE Canada
MICROMINE Central Asia
MICROMINE China
MICROMINE Indonesia
MICROMINE Mongolia
MICROMINE Russia
MICROMINE Turkey
MICROMINE Ukraine
MICROMINE United Kingdom
MICROMINE USA

Tel: +27 (0)87 150 7580
Tel: +55 31 3347 5904
Tel: +1 (604) 646 8924
Tel: +7 727 225 18 72
Tel: +86 1861 079 8400
Tel: +62 21 7590 5333
Tel: +976 7011 3889
Tel: +7 (495) 665 4655
Tel: +90 312 241 5571
Tel: +380 44 332 3858
Tel: +44 (0) 203 176 0080
Tel: +1 (303) 996 6270

mmafrica@micromine.co.za
mmbrazil@micromine.com
mmcanada@micromine.com
mmkz@micromine.com
mmchina@micromine.com
mmindonesia@micromine.com
mmmongolia@micromine.com
mmrussia@micromine.com
gssiyok@micromine.com
ababynin@micromine.com
mmuk@micromine.com
mmusa@micromine.com