

VBKOM & SENSMINING

Collaborating to bring the SMART MINING
SOLUTION data alive in your technical
operational planning



Making SENS of your mining data



Cost of Surface Mining

The major costs of surface mining can be identified as costs associated with resources and equipment, energy, and safety. Every operation strives to increase its production output, while considering its workers' safety and cutting energy costs.

At the end of the day, the cost of surface mining is subject to the output of the mining team.

Sens^{MINING} offers a smart mining solution that can help operational mines to save money. The SENS MINING SOLUTION is the optimal production monitoring tool that leverages cloud-based solutions to give operational and management personnel real-time insight that impacts on decision-making.

The SENS MINING SOLUTION offers:

- Fast and easy implementation
- Low cost solution
- No on-site back-end system requirements
- Understanding and tracking performance within 3 months
- Controlled continuous improvement and step change opportunity identification
- Senior technical and engineering support

Identify the opportunities with **Sens**^{MINING}

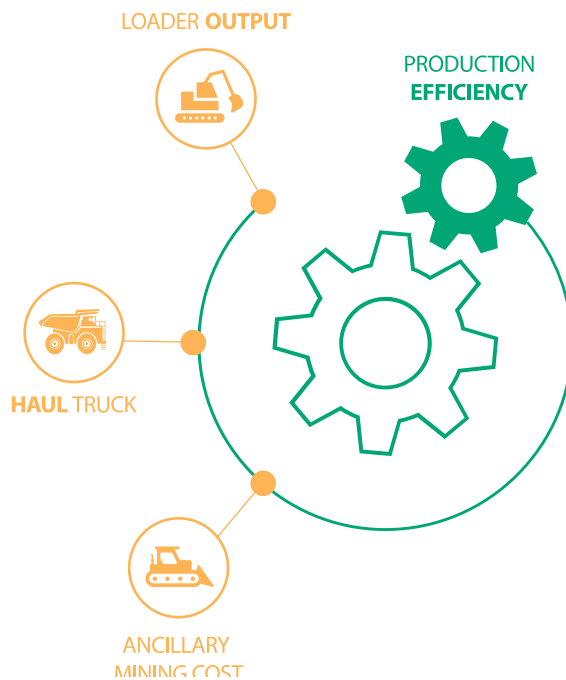
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Production Management System

Production and Efficiency

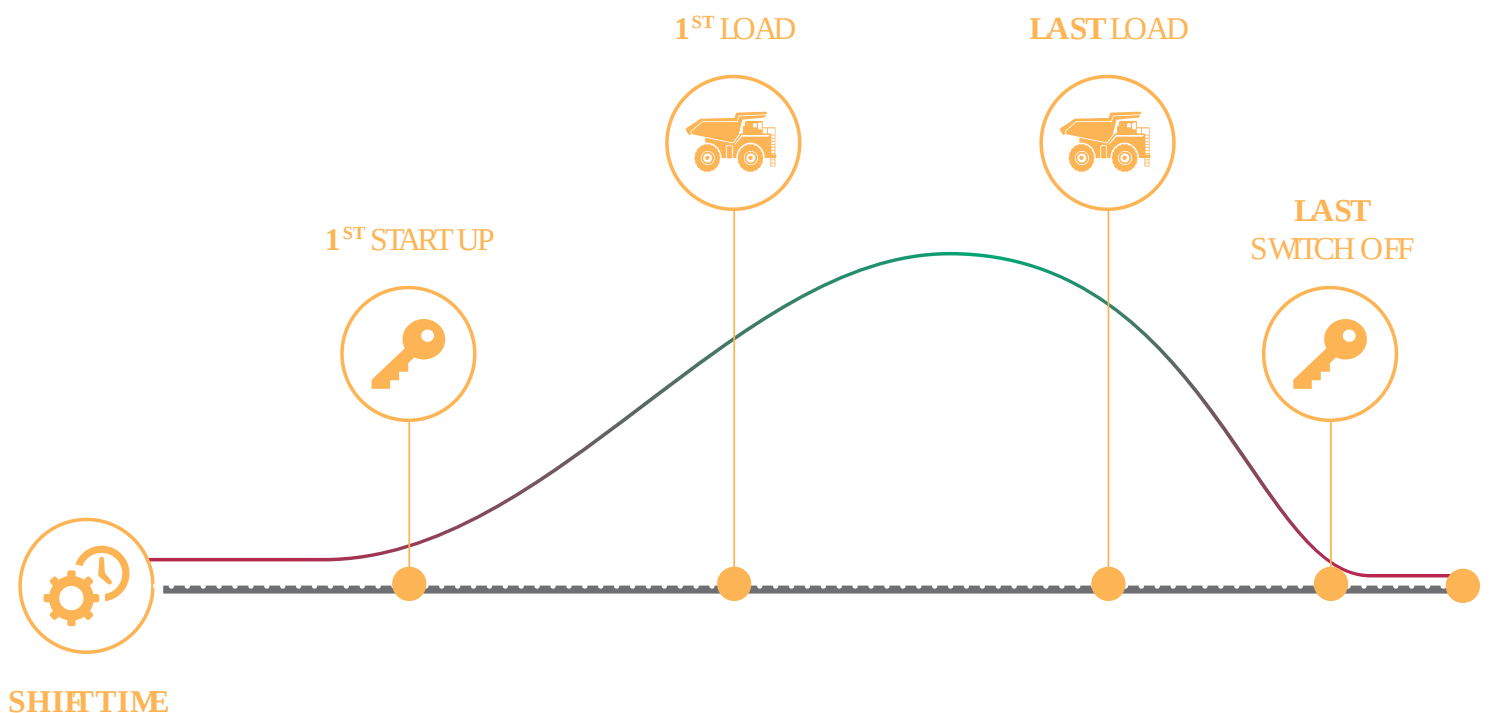
The SENS MINING SOLUTION assists in optimising the mining teams' productivity and efficiency by accurately tracking efficiency performance in real time. To lower the mining cost, the mining team should be optimised in terms of:

- Loader output
- Truck fleet
- Ancillary mining cost



Effective Equipment Utilisation

Effective equipment utilisation depends on maximising the effective operational working hours of the mining equipment. The production management system measures and reports on Equipment Availability, which is the mechanical time-up of the equipment, and Equipment Utilisation, which is the total productive time of the equipment.

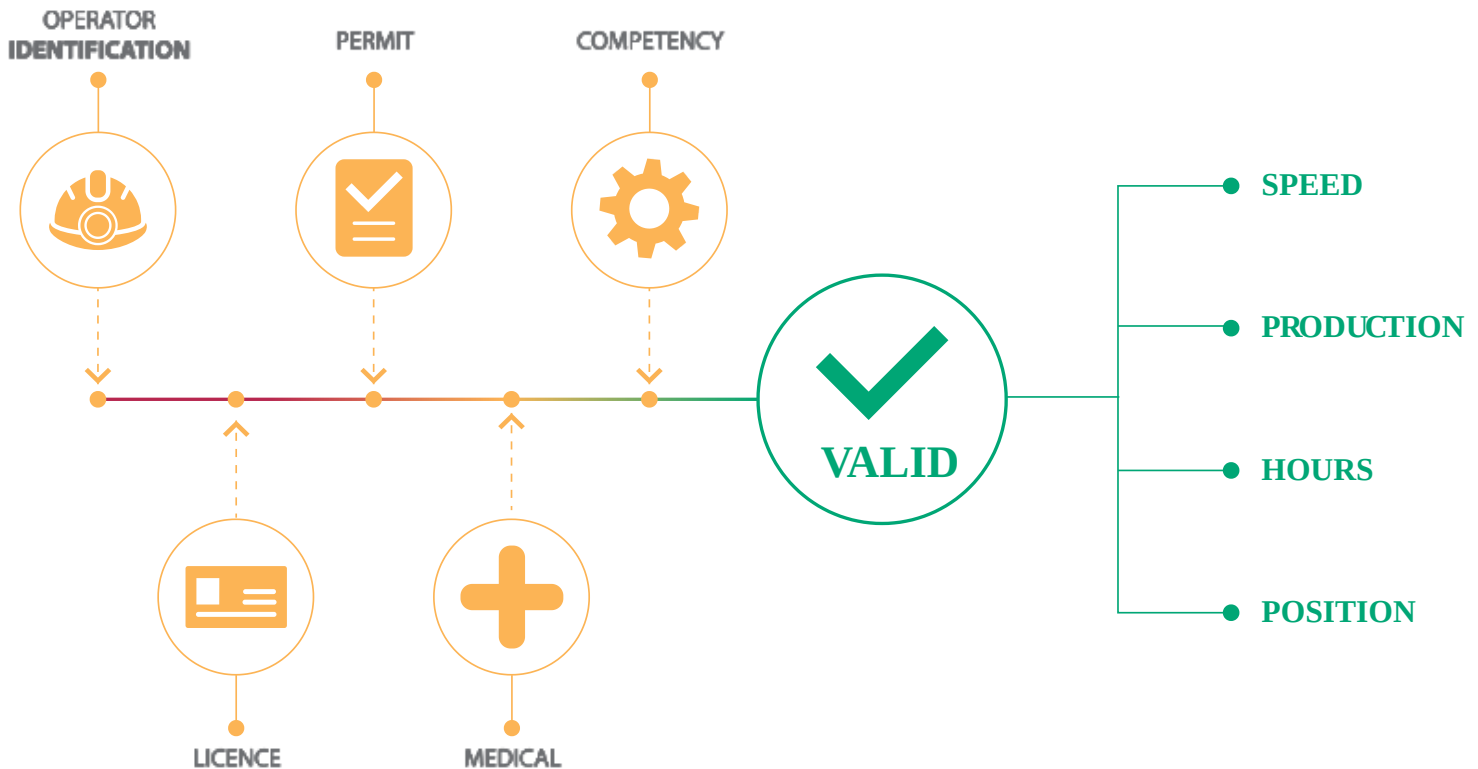


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Safety and Human Resource Management

One of the key production and safety metrics in mining is operator performance and key control. The SENS MINING SOLUTION allows for the equipment productivity and efficiency key performance indicators to be linked to specific operators.



Visual Dashboard

The management of mining projects is results-driven, and requires solutions that can, in real-time, present a visual and summarised dashboard reporting of the following key performance indicators:

- Production and efficiency
- Effective equipment utilisation
- Safety and human resource management



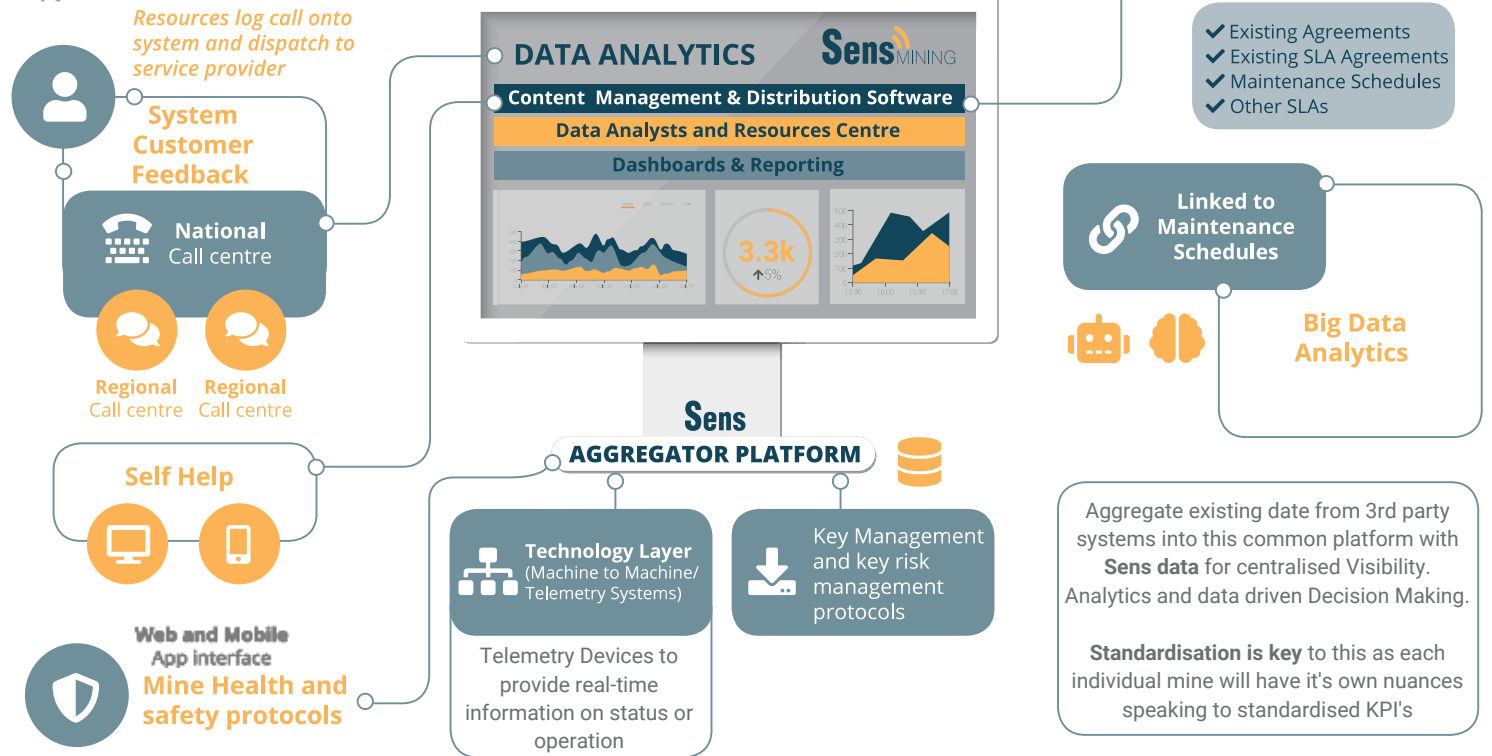
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Managed Services

The SENS MINING SOLUTION is offered to clients as a managed service. SENS MINING takes responsibility for the technological aspects of the on-site implemented solution, as well as the backend measurements against a service level agreement with its clients.

The **SENS C3 Unified Communications Centre** is able to track all mines and provide real-time analysis and customer support



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