MINEPULSE

The day to day safety heartbeat of the South African Mining Industry.

What is MinePulse?

MinePulse is the upcoming online communication and sharing platform for all safety related matters in the South African mining industry. The platform was designed by The Compliance Group (Pty) Ltd, an industry leading safety consulting firm, endorsed by Warren Beech, Head of Mining and Partner at Hogan Lovells legal firm in South Africa.

At last, mines can share information, statistics, lessons learned, campaigns, reports and much more, with each other and with institutions such as the Chamber of Mines, SIMRAC, the MH&SC, the DMR and many more forums and initiatives such as MOSH.

Developed in Association With

LONMIN

The MinePulse system is live and data is updated on a daily basis. This means that the institutions above can at the click of a button receive a daily report of injuries and incidents in the same way the management at each mine receives their Daily Safety Reports. No more requesting data by email, and waiting for submissions in order to do an industry analysis, no more exporting of data to create graphs for trend analysis, MinePulse does it all.

With the added feature of document uploads, all required documentation from these institutions and authorities can be seamlessly uploaded along with the entered data either as proof or as supporting documentation.

MinePulse consists of 4 plateau smashing modules …

MINESTAT   **MINESHARE**   **MINELEAD**   **MINEVISIT**

Intent of MineStat

MineStat is the flagship module of MinePulse, and is the first module that will be launched for our selected trial mines in November 2017. The intent of MineStat is to provide industry with a daily report on incidents and injuries, in the same way daily reports are generated at the mines for management.

MineStat contains all the fields commonly used within the mining industry to keep register of injuries and incidents, and incorporates the latest requirements from the DMR and the SAMRASS Codebook.

Content of Minestat

The fields for MineStat have been carefully selected so as to allow mines to share data without fear of adding information that may be incriminating, or possibly used to pinpoint locations and persons. All fields are strictly informational and high level. An typical example would be the location of the incident, where MinePulse will only require "development" for example, followed by "Haulage, Cross-Cut, Raise, Winze, etc. or in the case of "stoping" the detail would be "Ledge, ASG, SPD, Toe, Head, ASG/Face Intersection".

Outputs & Benefits

- A detailed injury and incident report on a daily basis for all mines across South Africa. This report can be filtered by commodity, province, region, mine, etc.
- Interactive graphs and analysis with standard analysis, as well as user defined reports which can be saved.
- Supporting documents such as SAMRASS forms, presentations, Safety Flashes etc. can be uploaded by the mines, and bulk downloaded by institutions and authorities who require these forms. In terms of SAMRASS 4 and 9 for example, MineStat will generate these forms from information added to the system automatically.
- Specific injury agencies can be grouped and analysed for projects in MOSH such as all FOG incidents and injuries, early entry examination and many more.
- MineStat provides a platform for each mine to do their planning at the beginning of the year in terms of number of injuries and associated rates. Once this is defined in the system, the monthly performance on injuries and rates will be tracked and indicated on standardised graphs for the whole industry. As the basic data is entered into MinePulse, users can define how they would like to view the data, for example, rates can be viewed per 200 000 hours or 1 000 000 hours.
- Only institutions and authorities will be able to see all mines. However, mines are able to grant view access to their information to other mines of their choice. The more the mines are willing to share their information, the higher their "Heartbeat Rating" will be. *(The Heartbeat Rating is a measurement MinePulse uses to measure the Safety Maturity as a Learning and Sharing Culture for Mines).* At the end of each year, MinePulse will host the Qabanga Mine Safety Conference, where learning of the year will be shared, prospects for the New Year and an award ceremony for various categories, measured by MinePulse over all 4 modules.

Intent of MineShare

Various groups, forums and associations have existed in the past to create platform for mines to share safety information. Not all of these forums have been successful in its intent and sometimes, people are just too busy to attend these get-togethers.

MineShare, will make sharing easy and user friendly. Mines will be able to access the MineShare library and search for learnings, awareness media such as posters, investigation reports, campaigns, best practices, new products on trial and much more.

Content of Minestat

- Investigation reports and lessons learned.
- Posters, flyers, briefs.
- Presentations.
- Campaigns and projects.
- Operational control such as procedures, standards, checklists, codes of practice and many more.
- Learning material.
- Programs and strategies.
- Papers and articles.
- OEM new products on trial.

Outputs and Benefits

Mines will be able to share safety information, preventing a duplication of effort, spending time on taking the ZERO HARM journey forward, preventing repeats and synergising approaches. The subsequent results could extend to contractors and vendors, experiencing a consistent approach to safety throughout industry promoting contractor reciprocity.

Intent of MineLead

While we understand that each person leads and manages their mine differently, we also understand that institutions and authorities such s the Chamber of Mines, DMR, SIMRAC, MH&SC and various other forums have a role in leading and guiding the mining industry in the journey to ZERO HARM.

It is with the above in mind, the MinePulse created MineLead, a platform for these institutions and authorities to register and manage campaigns and projects that are required to be implemented across the mining industry.

Content of Minestat

The institutions and authorities mentioned above can literally launch any campaign or project on this platform. As an example, the following programs could be launched on MineLead:

- Presidential audits
- Culture Transformation Framework (CTF)
- MOSH and all associated leading practices
- … and many more.

As a super user, these institutions and authorities can register a project or campaign, upload all the templates, audit protocols, minimum standards and instructions on the project platform. Once the project or campaign is launched, mines will receive a notification with detailed explanations and instructions.

Once mines have completed the project or campaign, their reports, checklists and protocols can be uploaded in response.

Outputs and Benefits

- Institutions and authorities can manage all industry projects, programs and campaigns form a single source.
- Projects, programs and campaigns can be rolled out per commodity, per region or per province, whatever the need may be.
- Tracking on progress for the projects, programs and campaigns can be viewed on a daily basis for each mine.

Intent of MineVisit

Currently, the DMR visits the mine and compiles a report on paper, which is scanned and emailed across the mine for everyone's attention and action. In some instances, the handwriting is difficult to read and may lead to misunderstandings of instructions and requirements.

MineVisit will enable the Inspector of Mines to capture his visit electronically on the profile of the mine he / she is visiting at that point. Once the report is finalised, the designated Manager of the area will receive a notification on the system, with the report.

Content of Minestat

- Inspector reports of visits.
- Section 54 stoppages
- Section 55 fines.
- General notes of Inspectors.

Outputs

- Inspectors will be able to generate electronic reports either onsite or at their offices for visits conducted.
- Section 54 and 55 can be issued electronically and connected to a specific regulation as there is an interface between MineVisit and a legal referencing platform for applicable legislation.
- Mine Managers can response electronically to each individual instruction issued by the inspector, and upload supporting documentation such as training records, audit results, presentations etc.
- Inspectors will be able to uplift Section 54 stoppages remotely.

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Costing & Commercial

The founding company The Compliance Group (Pty) Ltd is currently negotiating the best rates for system support globally as it envisages the software to be rolled out on a global scale by 2020. They will be communicating the costs before the launch for the trial mines in November 2017 and the official launch in January 2018 via their marketing and project team to all AMMSA members, government authorities and industry leading institutions.

SUBSCRIBE NOW

If you wish to stay on top of this process, please make sure your register with the communications database, by sending an email to info@minepulse.co.za, or joining our social media page on Facebook.

We also have a Facebook discussion Group where we are already sharing great learnings from registered member mines. Join the ZERO HARM community …

However, the following costs have been confirmed …

No government authority or industry leading institution will incur a cost to use the MinePulse system or any of its modules. These users will however be limited to an amount of registered users depending on their organisational size, location and portfolio specific requirements.

The following auhtorities and institutions will have free acces for a limited amount of users

mineral resources
Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

MHSC

CM
CHAMBER OF MINES
of South Africa

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For more information …

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		www.minepulse.co.za will be available soon.

Social Media :   **Facebook MinePulse Page**
https://www.facebook.com/zerofatal/?ref=bookmarks
Facebook MinePulse Closed Group
https://www.facebook.com/pg/zerofatal/groups/?ref=page_internal