

SYPERION BERM MONITORING SYSTEM



SAFETY THROUGH THE MONITORING OF BERMS

The *Berm Monitoring System (BMS)* from Syperion is the software component of a safety concept that enables monitoring and repair of berms in open-pit mines.

Inferior berms that do not reach the required minimum height pose a high risk of accidents due to landsliding during work on the slopes, if appropriate safety measures are not in place. In order to avoid fatal consequences, the berm is permanently monitored by the mobile *Berm Monitoring System*.

The *BMS* from Syperion is a software package and part of a complex safety system that helps to detect and fix substandard berms in a fast, reliable and efficient way.

The monitoring system operates with the help of a *RIEGL* 3D laser scanner. Due to its long range of 400m or more it can be placed at a sufficient distance so that there is no additional danger from the system itself.

The *BMS* is mobile and ready for operation within a few hours.

THE BMS SOFTWARE PACKAGE

The PC-based *BMS* software package consists of a server software, running for example in a control room, and a trailer software, which runs directly on a mobile trailer in the vicinity of the berms to be monitored.

In combination with the dispatcher in the control room and the bulldozer operator, the *BMS* is part of a closed control circuit that prevents and if necessary, repairs substandard berms.

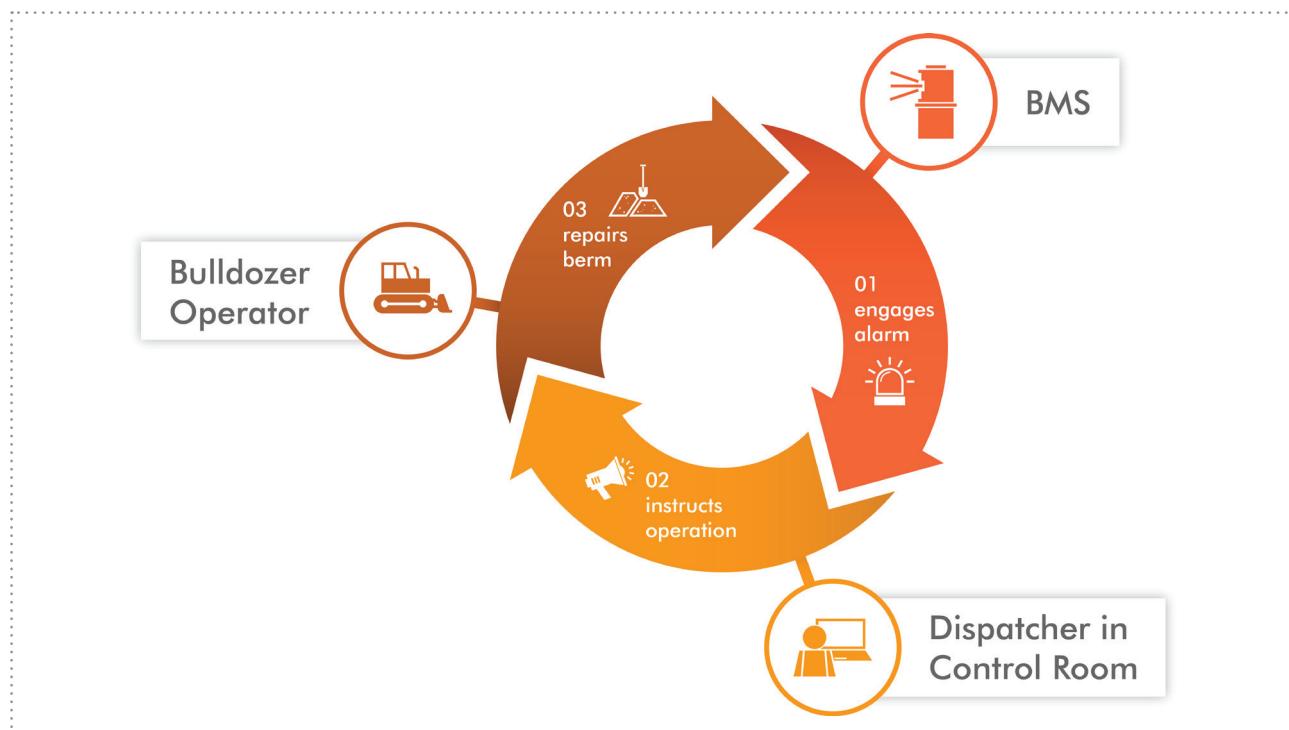


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 **SYPERION**

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THE BMS CONTROL CIRCUIT



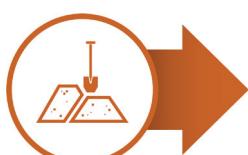
ALARM

When detecting and identifying substandard berms, the *BMS* engages an alarm that is sent to the control center automatically.



INSTRUCTION

The responsible personnel in the control room sees the alarm on the *BMS* website and gives instructions so that appropriate repair measures can be initiated if necessary.



REPAIR

The bulldozer operator repairs the corresponding berm and reports the repair back to the *BMS*.

Together with our partners
the Berm Monitoring System
is offered worldwide:

Horts Geosolutions – South Africa
Reutech Mining – South Africa

