



THE FOGAP PROGRAMME

ELIMINATION OF FALLS OF GROUND FATALITIES ACTION PLAN

Lerato Tsele, Minerals Council South Africa



MINERALS COUNCIL
SOUTH AFRICA

PILLAR 1: Adoption of leading practices



Improved Underground Workface Visibility



- Leading Practice Launched in July 2022.
- Adoption is progressing well.



Eliminate the risk of people working under unsupported rock

- Permanent Areal Support Leading Practice was launched in September 2023.
- Adoption is progressing very well with 34 of the 36 mines having adopted the leading practice.

Effectiveness of current drilling practice

- Assessments of Drill Guides & Drill Machines (Hydropower) underway at Harmony.
- Project officially kicked off on 1 November 2024 and will end on 31 October 2025.



PILLAR 2: Research and development



Barring technology to identify and safely remove loose rocks



Exoskeletons

- UJ completed muscle assessments
- Phase 2 Assessments underway at Sibanye Stillwater
 - Medical center simulation complete
 - Next step is to do underground tests



Improved and optimised seismic hazard rating and warning systems

- Phase 1 completed
- Outcome of phase 1 is a set of guidelines for the development of seismic monitoring systems, data collection and analysis

System and technology for real time monitoring and proactive warning of instability

- Project identified following technologies: Lidar, Radar and Photogrammetry
- Photogrammetry still prototype
- Mandela Mining Precinct assisting with commercialization

PILLAR 3: Skills development



- LMS developed, launched by SANIRE and currently operational
- Learning Material uploaded as it is finalised
- Learning Material reviewed and updated: 3 gaps identified in the review
 - Hydrogeology
 - Drilling & Blasting
 - Geotech Data Collection & Analysis
- Strata Control Material obtained from the MQA and uploaded onto the LMS
- Development of a Module for Frontline Supervisors - **Outstanding**

PILLAR 4: Policy issues



Guidelines for the mandatory code of practice to address geotechnical risks

- Review completed
- Awaiting gazetting



Finalisation of the review of Chapter 2 regulations on appointments, duties and responsibilities

- Review complete, awaiting MRAC approval

Update on SAMRASS forms



- Isometrix

PILLAR 5: Enabling Zero harm production



Ways of achieving
zero harm production
in a normal 8 hour shift

- What constitutes an enabling environment?

ZERO HARM

PILLAR 6: Implementation and monitoring



Interaction with MPAs



Day of Learning – 2025

- “The Olympics of FoG Safety”
- Demonstration of Technology
- Successes and Learning from the face
- Expert interviews



Measuring progress

- Consecutive FoG fatality-free calendar days(MOSH)
- Progress of mines adoption (MOSH)

Reporting



- Quarterly Newsletters
- Next One will focus on the Enabling Environment App







Thank you

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