THE ROAD TO ZERO HARM
Khumbul'ekhaya – REMEMBER HOME

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COMMITTED TO

ZERO HARM

The South African mining industry is committed to Zero Harm – every mineworker returning home, unharmed, every day.

Achieving world-class safety and health performance by working in close collaboration with tripartite partners in government and organised labour.
It’s been a long road

Source: DMRE
Leading practices in dust control

Gold company: average dust load

<table>
<thead>
<tr>
<th>Year</th>
<th>Initiative</th>
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<tbody>
<tr>
<td>2008</td>
<td>Footwall treatment</td>
</tr>
<tr>
<td>2009</td>
<td>MOD 5 tip filter units</td>
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<td>2010</td>
<td>Haulage sprays</td>
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<tr>
<td>2011</td>
<td>Tip covers</td>
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<tr>
<td>2012</td>
<td>Introduction of silver membrane filters and radial doors</td>
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<tr>
<td>2013</td>
<td>Winch covers</td>
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<td>2014</td>
<td>Stope atomisers and health rooms</td>
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<td>2015</td>
<td>Silicosis awareness campaign</td>
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<tr>
<td>2016</td>
<td>Tip sprays</td>
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<td>2017</td>
<td>Real time monitors</td>
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<td>2018</td>
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Milestone settlement

• R5 billion silicosis and TB settlement reached on 3 May 2018 by six Minerals Council members and approved by the High Court in July 2019

• We congratulate all who were involved in this settlement, which will hopefully be implemented early next year
Reducing TB incidence

• Multi-stakeholder Masoyise iTB project implemented in 2015

• Through intensive screening and treatment, goal is to achieve TB incidence on mines no higher than in rest of the population

• Goal within reach in many places; achieved and overtaken in others
Falling fatalities rates

Fatalities and Fatality frequency rate

Fatalities in 2018 down 87% since 1993, fatality rate decreased by 80%

Source: DMRE
Injuries decreasing

Injuries and Injury frequency rates

Injury rate in 2018 decreased by 66%, while number of injuries dropped 72%

Source: DMRE
Safety is multi-faceted

Trends repeatedly prompted innovations

- New mining methods
- New technologies
- New and better people management techniques
We acknowledge role played by social partners, particularly government and organised labour, in contributing to health and safety improvements.

- The Leon Commission of Inquiry into Safety and Health in the Mining Industry
- The Mine Health and Safety Act (MHSA)
- The Mine Health and Safety Council (MHSC)
Prioritising health and safety

- Mining Industry Occupational Safety and Health (MOSH) established in 2003
- MOSH Task Force established in 2006
- Minerals Council piloted MOSH Leading Practice Adoption System in 2007
- To date MOSH has spent:
  - **R40 million** on research and technology transfer
  - **R250 million** on research about seismicity
CEO Zero Harm Forum

• CEO Zero Harm Forum established in 2012
• Premised on the belief that the industry’s CEOs need to lead by example
• **Key focus areas** - falls of ground, transport and machinery, dust, noise, HIV/AIDS and TB, and operational safety culture.

Forum’s objectives include:

- Developing a model for industry leadership
- Modelling leadership behaviour
- Sharing experiences
- Establishing working protocols
- Monitoring and agreeing on adjustments to industry models
August 2018, Minerals Council launched the National Day of Safety and Health in Mining

- Signalled the start of a month-long initiative
- 93 health and safety days hosted at operations around the country
- Campaign brought together management, employees, unions, suppliers and the inspectorate
Comparison with international benchmarks

South African mining industry vs international

- Fatality frequency rates per million hours worked
- Graph comparing South Africa, United States (US), Canada (Ontario), and Australia over the years 2003 to 2018.

South African coal mining vs international

- Fatality frequency rates per million hours worked
- Graph comparing South Africa Coal, Australia Coal, and US Coal over the years 2003 to 2018.
Khumbul'ekhaya

- Driving and sustaining mining industry’s pursuit of Zero Harm
- Developed and led by CEO Zero Harm Forum
- Khumbul’ekhaya began as a heartfelt conversation amongst 34 mining CEOs in January 2019

Four critical drivers of Khumbul’ekhaya

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<th>Icon</th>
<th>Description</th>
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<tbody>
<tr>
<td>✔️</td>
<td>Industry’s continued commitment to Zero Harm</td>
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<td>🧠</td>
<td>Elimination of safety and health fatalities as a step-change priority for 2019/20</td>
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<td>🌍</td>
<td>Adopting a holistic approach, because fatalities from safety and health are often the result of complex circumstances.</td>
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<td>🔍</td>
<td>Learning from incidents, from each other and from other industries</td>
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Nguni word for “remember home”, because we recognise that fatalities have the greatest impacts on loved ones, at home
Khumbul'ekhaya

SAFETY AND HEALTH are equally important

Together we can ensure that every mineworker returns home unharmed, every day

SHOW YOUR COMMITMENT by sharing a photograph on our social media

Follow, comment and share using #rememberhome
@KhumbulekhayaSafetyAndHealth

Together we can ensure that every mineworker returns home unharmed, every day

www.safetyandhealthmining.co.za

MakingMiningMatter
Every mineworker returning home unharmed every day
Thank you