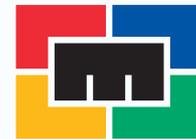


Mining CSI

Local Economic Developments by Mines

Volume 34 • 2023



MINERALS COUNCIL
SOUTH AFRICA

ROGER BAXTER
*Steps Down as CEO
of Minerals Council
South Africa*

ALSO IN THIS ISSUE:

INVESTING IN AFRICAN MINING INDABA – Welcome to Mining Indaba 2023

SIBANYE-STILLWATER – Focus on Water Independence

ANGLOAMERICAN – Natascha Viljoen Address Hydrogen Economy Conference in Johannesburg

EXXARO – Announce a Donation of More Than 700 School Shoes

AFRICAN RAINBOW MINERALS – Partners with Wits to Invest in Talent and Research

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It is good to know that Investing in African Mining Indaba 2023 is back to its usual spot during the month of February as the 2022 event was held in May during the winter Cape weather due to Covid-19 which disrupted everyone's lives worldwide. We are all looking forward to Mining Indaba event taking place on 6-9 February 2023.

So please book your seat early to save while the rates are lower and enjoy the mining event of the year in Cape Town, the best place to be at in the African continent this time of the year.

Mining CSI Volume 34 is honoured to present this issue graced by Roger Baxter, CEO of Minerals Council South Africa who has been on this role for nine years and is now retiring in April 2023. His "Frank" engagement style and ability to drive the mandate and agenda of the Minerals Council and business make him a credible and reliable partner to work with," says Ms Fakude.

After 30 years "working really hard in the mining sector" Roger says he feels it's time for change and to take a break. "It's also time for new leadership at the Minerals Council to help take the industry to the next level and for me to start a new chapter. In due course I plan to come back and work in this great mining industry", says Mr Baxter.

It is always refreshing to see women making a dent into the mining space despite massive challenges facing them when it comes to penetrating the sector. Tebogo Mosito has been one of the shining stars in the mining terrain, she is the owner of Ditsogo Engineering and Mining Projects, a 100% female owned business established in 2012.

Tebogo was ranked as one of the 100 Global Inspirational Women in Mining 2018 by WIM_UK. Her company, Ditsogo Engineering and Mining Projects is part of the Anglo-Zimele Supplier Development, Impala ESD, supported by SEDA,

SEFA and DTIC. Please read more on Tebogo and her company on pages 22 and 23 of this issue.

Unemployment in South Africa hovers around 31%, one of the biggest in the SADC region, and Zama Zama's in South Africa poses a new challenge on how to utilize this phenomenon in a positive way to create jobs by thinking out of the box.

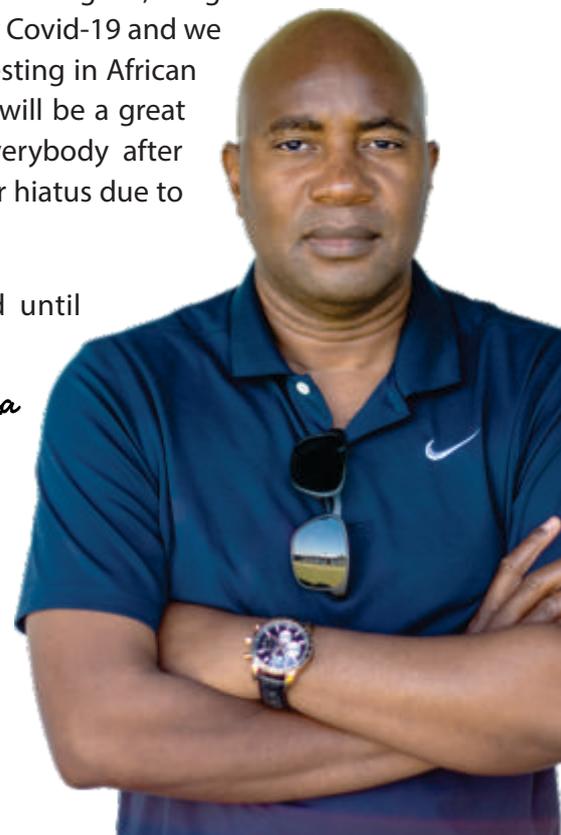
Reinier Minny has put the challenge for us all to say, instead of looking at Zama Zama's as a scourge ravaging old mining and unused mining operations under Care and Maintenance, a new way of thinking must be introduced which can benefit the community and the Zama Zama's themselves.

In most cases Zama Zama's are people with skills in mining operations who have either been retrenched or made redundant due to closure of these operations. See the article on page 25 of this issue.

From all of us at Mining CSI, it is good to be back after Covid-19 and we hope 2023 Investing in African Mining Indaba will be a great welcome to everybody after almost two year hiatus due to the pandemic.

Enjoy the read until next time. ◆

Moses Sibiyi



In This Edition



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Roger Baxter to Step Down

As CEO of Minerals Council South Africa

Roger Baxter has decided to step down as CEO of the Minerals Council when his contract expires in April 2023, ending nearly nine years in the leadership role of tirelessly promoting, championing, and protecting the South African mining industry.

“Roger has led the organisation for nine years through momentous changes and challenging times, playing a key leadership role at the Minerals Council during this period of positive and transformative change.

He has been an exemplary leader and CEO of the Minerals Council and he has worked tirelessly to promote and position the mining industry and the country for transformative growth and to

#MakingMiningMatter,” says Nolitha Fakude, President of the Minerals Council. The Minerals Council Office Bearers have embarked on a process to appoint a new CEO designate who will support Roger through to the conclusion of his contract.

“Roger, working with what he describes as “great Office Bearer teams” and with the full support of the Board has helped to reposition the industry by materially addressing many industries and country level issues,” says Ms Fakude.

Under his leadership, the Minerals Council inter alia:

- Rebranded and renamed the 132-year-old organisation.
- Elected the first woman President in its history.
- Managed the COVID-19 pandemic better than any other sector, by vaccinating 77% of the workforce, thus helping to bail out the economy for two consecutive years.
- Helped to create a better legislative and policy environment for the sector through lobbying and legal processes.
- Fought state capture and unethical leadership.
- Led the mining sector in recording its safest year on record in 2019 through real visible and felt CEO-ship.
- Successfully advocated unlocking private sector investment in energy.
- Led the sector on research, development, innovation and technology in partnership with the Government.
- Drove the debate on climate change and the shared-value community model.

“Roger and the Minerals Council provided a really positive contribution model of ‘rolling up our sleeves’ to deal with the practical issues challenging the country and industry,” says Ms Fakude. “While there is still much more work that needs to be done on several fronts, there is no doubt that a solid foundation has been laid by the Minerals Council and good progress has been made in several areas. Under Roger’s leadership, the Minerals Council has become a real force to be reckoned with.

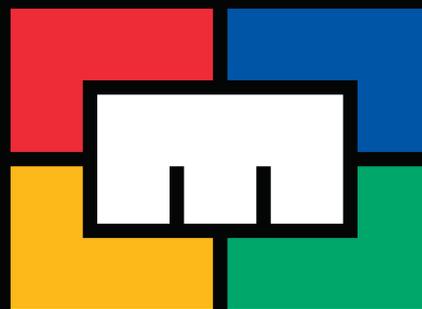
We can collectively be immensely proud of the journey and successes achieved by the Minerals Council over the past nine years and the emergence of the Minerals Council as one of the most effective and respected business advocacy organisations in South Africa. "Roger is a deeply respected leader in the mining sector and his ability to engage all stakeholders on critical issues is exemplary. His knowledge of the economy and mining sector, and his ability to engage people on the facts has really helped shape a better outcome for the Minerals Council, the mining sector and economy.

His "Frank" engagement style and ability to drive the mandate and agenda of the Minerals Council and business make him a credible and reliable partner to work with," says Ms Fakude. After 30 years "working really hard in the mining sector" Roger says he feels it's time for change and to take a break.

"It's also time for new leadership at the Minerals Council to help take the industry to the next level and for me to start a new chapter. In due course I plan to come back and work in this great mining industry.

"It's been a real privilege to have been afforded the opportunity to lead the Minerals Council through a remarkable period of change. I have been blessed with capable and dedicated Minerals Council colleagues and fantastic Office Bearers who have given generously of their time and their advice to make sure I could do my best for our industry. We, as the Minerals Council, could not have achieved as much as we have without them," says Baxter.

Roger joined the then-Chamber of Mines in 1992, taking a one-year break in 1999 to work in the stockbroking industry, before returning to the Chamber as its Chief Economist. He then joined Rio Tinto for a year in 2011 before the Chamber persuaded him to return in 2012 and he was



MINERALS COUNCIL SOUTH AFRICA

appointed Senior Executive in 2012, then COO in 2014 and then CEO in 2015. Roger has played a fundamental leadership role in almost every aspect affecting the mining industry and economy over the past three decades.

He was part of the teams negotiating a new minerals policy for the country, the new mining charter, the energy policy white paper, the skills development legislation, the various growth strategies, and he led the industry team that negotiated the new world leading practice royalty system.

Roger has been an active member within Business Unity South Africa (BUSA), serving as a Board member representing the Minerals Council and previously chaired the BUSA Economics Committee and Growth Task-Team.

He played a leadership role in the various Presidential growth, development, and jobs summits, and he has led various engagements focused on reforming electricity supply and the logistics system. He is also the founding chairperson of the World Platinum Investment Council. Ms Fakude concluded that "on behalf of the Minerals Council board and its members I would like to thank Roger for his generous contribution to our organisation and the country and wish him and his family all the best for their future endeavours." ◆



Pan African Resources (PAR) Launches

New Learning Management System and Communications (PAR-LMSC) Smartphone App

During November 2022, Pan African commenced with the roll-out of its smartphone based application (App) for employees at the company's Barberton Mine operations in Mpumalanga. The IOS and Android App is free to download and aims to be a training and communications tool to empower employees and keep them informed with easily accessible up to date company news and information.

Employees will also be able to obtain their payslips and available leave data from the LMSC App, while also undertake accredited training courses, assistance with financial planning and budgetting, join activity clubs (such as the PAR Running Club)

and enter competitions to earn rewards points or merits, enabling them to win shopping vouchers or prizes and recognise high achievers. The App will require minimal data and once information is loaded, will be accessible for users at their convenience.

Employees were introduced to a pilot version of the system earlier this year, where several mining-related safety and educational videos designed by the company were downloaded by users on their smartphones, who were then eligible for prizes for winning entries based on rewards earned for completing courses correctly. Prizes included Samsung Galaxy Tablets for the winners and uptake

for the initiative exceeded expectations. Pan African is confident the LMSC will be an invaluable tool with which to not only incentivise and reward employees, but also to improve our safety culture by providing regular safety reinforcing messages as well as the latest information and education in terms of safety developments and best practices in the mining environment.

The App will be available to all employees, from entry-level through to mine administration and management, and will be rolled-out company-wide in the next few months.

The next phase, planned for early in 2023, will involve the launch of a customised development of the App to the local communities, where Pan African will be able to inform residents and local businesses of the mine's activities through its quarterly mine newsletters. The PAR-LMSC App will also provide safety tips and information on mining's contribution to the local economy, the dangers and negative implications of illegal mining as well as

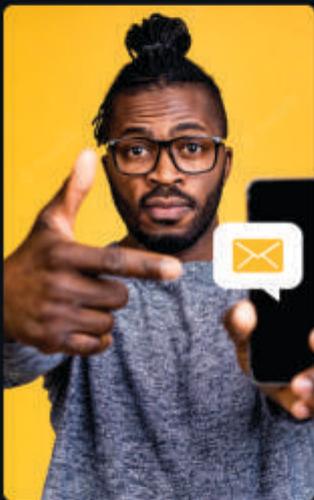


PAN AFRICAN RESOURCES

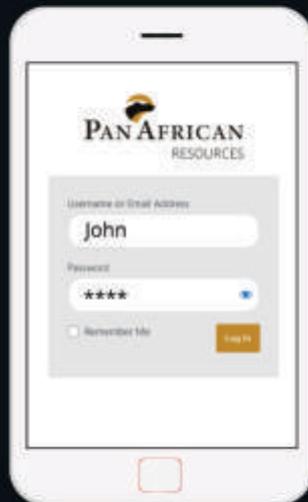
inform community stakeholders of available training and development and engagement platforms. Other benefits will include educational courses, advice on CV-writing, business plans and availability of job opportunities and supply-chain information.

Pan African has full buy-in from organised labour who embraced the benefits of this initiative for their members. The PAR-LMSC App will enable a more informed and engaged workforce, and strive to be informative and educational, while motivating and rewarding safe behaviour and promoting PAR's 'Mining for a Future' ethos along with our 'Beyond Compliance' approach to development. ◆

Stand a Chance to Win!



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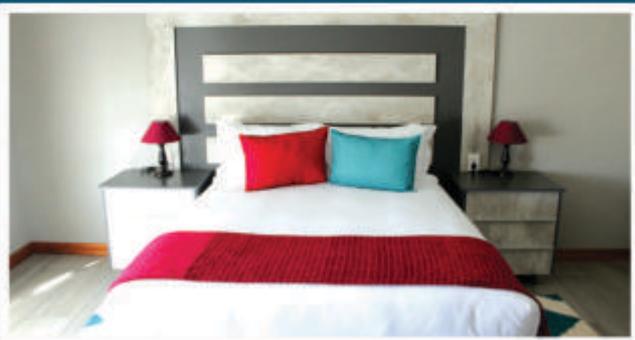


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Is South Africa Ready

For the Future of Mobility

By Mpho Dipela, Chairman and Shareholder of Legacy Motor Group

The global drive to reduce emissions coupled with meteoric advancements in technology have radically accelerated the electrification of transport globally.

According to the International Energy Agency, for example, just 120,000 electric vehicles (EVs) were sold worldwide in 2012, compared to the new record of 6.6 million sales achieved in 2021 - with electric cars representing nearly one in ten of all car sales globally.

This year, statistics indicate that electric car sales could reach new highs yet again, with two million sold in the first quarter of the year alone - a 75% increase from the same period in 2021. In fact, successes in the development of new battery-powered electric vehicles and plug-in hybrid electric vehicles have even seen European policymakers declare that the region will be implementing a ban on the sales of petrol and diesel cars by 2035.

As South Africans, this announcement is particularly significant given that the Europe Union represents nearly two-thirds of the local sector's export market and accounted for R105 billion in sales in 2021. The high cost of remaining

fixated on internal combustion engines would therefore be disastrous for both the automotive industry and for the country, given the importance of the industry as a key economic driver and job creator. This underscored the need for an urgent shift in our own automotive manufacturing production away from internal combustion to battery-powered engines. But as the world switches to EVs, the question inevitably arises: is South Africa ready to embrace the future of mobility?

Few Roadblocks on The Journey to Electrification

The first barrier inhibiting uptake is Eskom's infamous power constraints, which have resulted in more than 103 days of national loadshedding in 2022 so far. But a strained power grid and frequent load shedding are not only an inconvenience to individual EV users.

The greater risk as a nation is that increased adoption of EVs will only add to demands on our energy infrastructure and increase the risk of grid overload. Additionally, the national grid's reliance on coal-powered stations and fossil fuels such as diesel will continue to significantly reduce the effectiveness of EVs in cutting emissions.

To overcome these obstacles, we first need to get the basics right in terms of securing reliable energy supply and decarbonising the grid - issues that we have been trying to solve for nearly 15 years. This said, evolutions in battery technology mean faster charging times with longer ranges, substantially reducing EVs overall energy demands.

The next major barrier is rolling out the necessary public charging infrastructure given the many demands already present on government's limited infrastructure budget.

Few South Africans would be able to afford the cost of installing a home-charging station, which is also usually only possible for those with garages or assigned parking spots on their properties. ◆



African Rainbow Minerals (ARM)

Partners With Wits to Invest in Talent and Research

ARM has partnered with Wits University to boost technology development in the mining sector and to strengthen the pipeline of postgraduate students and leading-edge research. Announcing their recently signed Memorandum of Agreement in November 2022, Head of the School of Mining Engineering, Professor Cuthbert Musingwini highlighted the multi disciplinary nature of the collaboration.

While the School of Mining Engineering will be the main contact point for managing the agreement, ARM will be also be working with the School of Chemical and Metallurgical Engineering, the School of Accountancy, the School of Geosciences, and the Wits Mining Institute to advance teaching and research.

“This partnership is a reflection of how Wits and ARM appreciate the integration of different disciplines in the mining industry,” said Professor Musingwini. “Just as mining companies must embrace a wide range of expertise and try to avoid working in silos, so too must we ensure that our disciplines ‘speak’ to each other - this is essential in preparing our students for the industries they are entering.” The agreement opens the door for ARM

to provide financial and other support to Wits University, in various forms. ARM will offer bursaries and vacation work experience for selected students and will consider the best performing students for its Graduate Development Programme, and for permanent employment.

“ARM has partnered with institutions of higher learning across South Africa, offering exciting career opportunities and contributing to research and advancement for the mining industry. The partnership with Wits provides a great platform to invest in talent across the various disciplines that contribute to the mining sector,” said Thando Mkatshana, Chief Executive ARM Platinum.

A key aspect of the partnership is the sponsorship of postgraduate research which may be relevant to ARM and could be of importance to the mining industry.

The value of this support is not just in terms of student livelihood and experience, or the pioneering research that will be fostered,” said Professor Musingwini. “All this investment feeds back into the teaching curriculum, as it is the

lecturing team that supervises the research and gains insights from it – keeping our educational content at the cutting edge.” According to the School’s Senior Lecturer Clinton Birch, who is leading the engagement with ARM, students will benefit from Wits’ supervision and also from a mentor within ARM who will provide guidance to ensure that the research is relevant to industry.

A range of research topics have already been decided by the Wits-ARM steering committee with the relevant students, supervisors and mentors chosen.

“We will be tackling topics that are extremely relevant to today’s mining sector, including blending and grade control strategies, the deposition of tailings underground, and enhancing mine-community relationships,” said Birch. “Other topics relate to the efficiency of trackless mobile equipment, blasting optimisation, the use of backfill, and zero harm strategies.”

Professor Musingwini highlighted that 2022 marked Wits centenary year as a leading educational institution on the continent that seeks to change the world, for good. “Wits has shown how university education is uniquely transformational in the way it addresses inequality and enhances social mobility,” he said. “The partnership with ARM gives more people access to quality education, while attracting top teaching and research talent. It goes further than that – it also contributes to employment and drives sustainable development.”

All these goals and values, he said, are held dear and shared by both Wits University and ARM. “Our vision is that ARM’s partnership with Wits University will advance the shared ambition for both organisations to lead change in South Africa, Africa and the world, for good,” concluded Professor Musingwini.

About Wits:

Wits University celebrates 100 years of academic and research excellence, social justice and the advancement of the public good. Wits launched the Centenary Campaign that aims to raise R3 billion to support, teaching, research and innovation, infrastructure developments and students. Read more at www.wits.ac.za

About ARM:

African Rainbow Minerals (ARM) is a leading South African diversified mining and minerals company with operations in South Africa and Malaysia. ARM mines and beneficiates iron ore, manganese ore, chrome ore, platinum group metals (PGMs), nickel and coal and also has a strategic investment in gold through Harmony Gold Mining Company (Harmony). ◆



Thando Mkatshana, Chief Executive – ARM Platinum



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The company started by supplying catering services in 2009, and has since expanded to supplying the private & Corporate sector with customized catering services as well as cleaning services for Anglo Amandelbult SAV kitchen.

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More Than 1400 Feet Walk to School With Confidence

Exxaro Resources is proud to announce a donation of more than 700 school shoes to 15 different schools in its host communities across its mining operations in Limpopo and Mpumalanga.

Exxaro's Community Development Manager, Tebogo Leepile explains the reality that most learners walk for miles to get to school causing wear and tear on their shoes. "We believe that sustainable communities are created through proactive engagement, a deep understanding of societal needs."

After learning of the plight of learners who needed assistance in its Mpumalanga communities, the mining giants' digital and connected Belfast coal mine, Leeuwpan mine and Matla mine, provided more than 500 pairs of school shoes to different schools within their regions. These primary schools included: Mpiloenhle primary, Ebhudlweni primary, Dumezizweni primary, Morelig primary, Mdumiseni primary, Sizuzile primary, Bonginhlanhla primary and Sifundise primary.

"Learners who have worn out shoes often show a lack of interest in school. This can impact some of the learner's confidence and hinder the learning experience at school. Having something as simple as a good quality pair of shoes, helps to build self-esteem and adds confidence to their performance at school," Leepile explains.

In support of Exxaro's purpose of powering better lives in Africa and beyond, it continues to work towards improving the lives of people within its communities.

Investment in education support is part of the company's commitment to the National Development Goals 2030 and the UN Sustainable Development Goals, which aim to improve the quality of education across the country. Leepile concluded that education investment will remain central to Exxaro's strategy.

"We understand that our success is measured in the short term by delivery of impactful initiatives and, in the long term, by the sustainability of our communities." ◆

SIBANYE-STILLWATER: FOCUSED ON WATER INDEPENDENCE

South Africa is facing a water crisis caused by insufficient water infrastructure maintenance and investment, recurring droughts driven by climatic variation, inequities in access to water and sanitation, deteriorating water quality and a lack of skilled water engineers. This crisis is already impacting economic growth and the well-being of everyone in South Africa". While this statement was made in 2018 in the National Water & Sanitation Master Plan (2018), we can safely assume that where we are currently in 2022, this prediction has unfortunately become a stark reality.

Sibanye-Stillwater is a multinational mining and metals processing group with a diverse portfolio of mining and processing operations, projects, and investments across five continents. It is also one of the leading global PGM autocatalytic recyclers and has interests in leading mine tailings retreatment operations.

We are acutely aware of the current water situation in the country, both short-term and long-term, and the water demand and supply issues in the areas we operate. With a workforce of over 81,000 people at our South African operations we are conscious of the general status and availability of our water resources, as well as our internal water consumption for mining production and human consumption purposes.

We are committed to protecting the environment for present and future generations and work to avoid, minimise

and mitigate any adverse environmental impacts where we operate. We are committed to best practices in water conservation and water demand management. We have taken an integrated approach to manage our water footprint to ensure its responsible use sustainably for production and our host communities.

Water is a critical resource and is essential to every aspect of our operations – drilling and blasting, milling, and processing, equipment cooling, and hydraulic tailings re-mining. Our employees and their dependents living in our mining villages, also depend on the mining operation for potable water supply for WASH (water, sanitation & hygiene) services - in support of Sustainable Development Goal (SDG) 6 which Sibanye-Stillwater also subscribes to.

We face distinctly different water challenges at our SA gold and SA PGM operations, respectively. While our SA

PGM operations are situated in water-stressed areas in North West province, our SA gold operations in the West Rand of Gauteng are, by contrast, overlain by dolomitic aquifers (underground geological formations that "store" significant volumes of freshwater). Our gold operations are therefore mainly water-positive (that is, significant ingress of water into our mine workings), and it is hence necessary to pump large volumes of ingress water from these deep workings in order for mining to take place safely and continuously.

We aim to use alternative available underground water sources to replace purchased water. We identify and reduce water waste through improved metering, water balance management, leak detection, and repair initiatives.

As a Company, Sibanye-Stillwater supports the call to action outlined in the National Water & Sanitation Master Plan. Over the last three years, we pro-actively embarked on a water independence strategy (our SA gold operations) and a water security strategy (our SA PGM operations).

Sustainable Development Goal (SDG) 6.1:

"By 2030, achieve universal and equitable access to safe and affordable drinking water for all"



In summary, our water strategies are focused on the following:

- **We are reducing the overall reliance** of our operations on the Integrated Vaal River System (IVRS). This primary freshwater resource supplies most of the water needed for industrial and human consumption in the Gauteng and Rustenburg areas, including our gold and PGM operations.
- **Rendering our operations more water use-efficient, that is, using less water to process a ton of ore.**
- **Embedding Water Conservation & Water Demand Management (WC&WDM) and water-consciousness thinking** and practices at our operations.
- **Conducting fit-for-purpose and focused research & development (R&D)** to find cost-effective and long-term sustainable solutions to our water availability and water quality management challenges.
- **We track the impact of climate change** on our water supplies and our communities to counter these with appropriate and cost-effective adaptation measures and technologies.

Our long-term goal is for our operations to become completely self-sufficient and independent of water supplies from bulk water utilities. We are well on our way to reducing our reliance on one of South Africa's most important freshwater resources, the Integrated Vaal River System – and in the process, make more of this valuable resource indirectly available to other users, including communities, in fulfilment of our ESG commitments.

OUR IMPACT

From January to end September 2022, we reduced overall reliance on the Integrated Vaal River System at our SA Gold Operations by approximately 755 ML (2022 target: 1000 ML) and at our SA PGM Operations, by approximately 129 ML (2022 target: 300 ML).

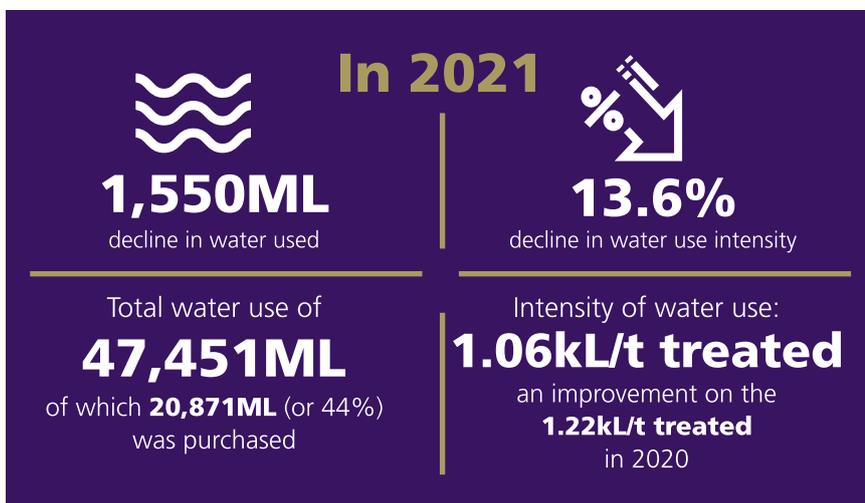
884 megalitres in 2022 alone

(1 megalitre = 1 million litres). For every megalitre of water that our operations do not abstract from a freshwater resource such as the IVRS, means that this water can indirectly be made available daily to approximately

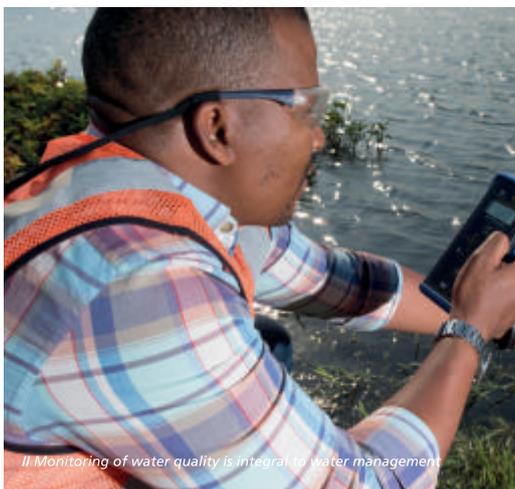
11, 111 individuals

or 2,222 households of five persons each [based on the 90 litres/person/day national norms and standards]. Therefore, the 884 megalitres (or 884 million litres) of water from January to September 2022 not taken from the IVRS, can indirectly be made available FOR ONE DAY through the Rand Water reticulation system to approximately 9,8 million individuals or almost 2 million households [alternatively for a 30-day month to approximately 65,500 households].

As a result of their own collective potable water production capabilities, our Driefontein and Kloof gold mining operations can collectively divert [away from mining operations] up to **28.8 ML** a day of potable water to municipal water systems that can be provided daily to **64,000 households**.



WATER



Monitoring of water quality is integral to water management

For South Africa operations as a whole, water use reduced by **6,061 ML** since beginning 2018 to end 2021, i.e. over a 4-year period



Plans and targets in place to minimise use of purchased water and reduce dependency on the Integrated Vaal River system

Sibanye-Stillwater is committed to open and transparent reporting to our internal and external stakeholders on our water consumption [and the associated costs of purchasing of water], our water use reduction targets, and our performance against these set targets.

Sibanye-Stillwater's drive to become less reliant on, and more independent of external freshwater resources [through our potable water production and other innovative WCWDM practices] will make our Operations more sustainable and climate change resilient, whilst at the same time enable us to implement impactful projects and initiatives that support the country's commitment to meet SDG 6.1 in line with our own stated Strategic Differentiator to be "...recognised as a Force for Good".



Maggie Moila is the founder of Fundza Training Institute, a 100% Black Economic Empowerment company, Fundza Training Institute was started in 2015 and is fully accredited with SETA. Moila has BCom Marketing, a finalist for Standard Bank Top Women and a regular contributor on radio talks on entrepreneurship and financial literacy with Capricorn FM and Energy FM, and she is currently studying CSSA.

The alarmingly high rate of unemployed youth is what spurred a young woman in a white male-dominated industry to start a mining training facility, in the hopes of combating the plight of young people in communities. Working with major companies such as Anglo American's Mogalakwena mine and the Ivanplats mine in the Limpopo Province.

Fundza Training Institute is committed to providing the highest quality, needs-based training interventions to its clients. Formerly a registered debt counsellor, Maggie saw the gap and started training local communities on how to manage their finances as well as SMMEs on business start-up and mentoring.

Through years of training, she then expanded her accreditations into lifting machines, earth-moving machines as well as first aid.

The Socio Implications of Debt On

- Key challenges faced by SMEs in this hard economy are existing debt, lack of cash reserves and no access to relief funding.
- While over 40% of the businesses surveyed closed during the first five months of the pandemic, less than half applied for relief funding - and 99.9% of those who did apply were rejected.

Among key challenges commonly faced by small businesses in South Africa during these hard economic times are existing debt, lack of cash reserves, no access to relief funding, an inability to operate amidst hardships like inflation, loadshedding, water shedding etc.

According to the SA SMME Report, 42.7% closed during the first five months of the pandemic. Only 43% of businesses that closed had applied for

Covid-19 relief funding, with 99.9% of these funding applications being rejected. Poor consumer credit scores remain one of the primary reasons cited by banks for rejecting Covid-19 relief funding applications.

Prior debt was a major contributor to closures, with 66% of businesses that closed having debt before Covid-19, and half of these having outdated management accounts. These factors pose problems for businesses even in the best of times, but during these hard times they become critical causes of business failure, according to the survey report.

While the outlook for the future is largely uncertain for SMMEs, small business owners who were able to remain open, are optimistic about being able to survive into the future.

The Financial Stress of Small and Medium Entrepreneurs

In emerging economies, formal SMEs contribute up to 60% of total employment and 40% of GDP and these numbers are significantly higher when informal SMEs are included. Converting informal SMEs into the formal sector can have considerable advantages. Although the SME provides a significant contribution to the economies, Small and Medium Enterprises face many challenges in day-to-day operations having grown worldwide

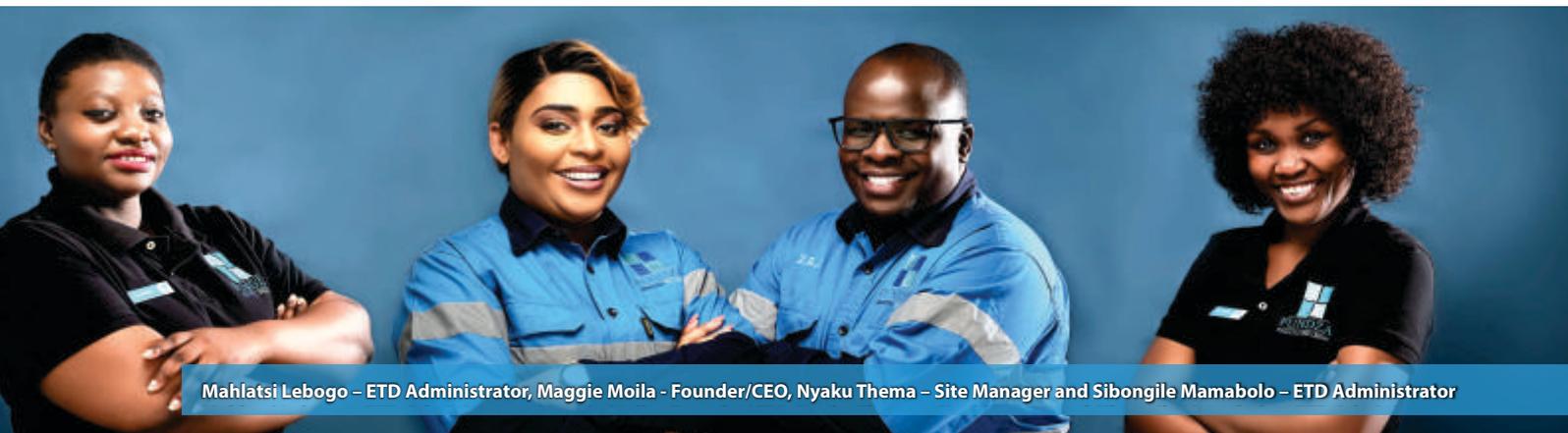


and currently experience financial stress due to lack of financial capability. The evidence of past studies includes both internal and external factors caused by SME business failure.

Due to these financial constraints small business owners often find themselves getting into mounds of debt just to keep the doors open. These debts problems have proven to have a negative mental impact on entrepreneurs.

Fundza Provides Training to Workers in the Mining Industry in the Following Aspects:

- Earth Moving Machines: Excavators, Rigid Body Trucks, Tractor, Backhoe\Loader, Front-end Loader, Bobcat\skid Steer, Grader, Track Dozer, Tipper Truck.
- Lift Machinery: Telescopic Boom Handler, Mobile Elevated Platform Operator, Chain Hoist, Basic Rigging and Slinging
- Cranes: Hydraulic Crane (Heavy Crane: Code 36), Mobile Crane Operator (Code 33-40), Overhead Crane Operator PR (Code 30)
- Counter Balance Lift Truck: Forklift Operator Code 1-4, Pallet Truck Operator Code 12, 4 Post Operator, Roll Back.
- First aid and Fire fighting ◆



Mahlatsi Lebogo – ETD Administrator, Maggie Moila - Founder/CEO, Nyaku Thema – Site Manager and Sibongile Mamabolo – ETD Administrator

Fundza Training Institute, 11 Van Riebeeck Street, Mokopane, 0601

Tel: 087 630 2506 | Cell: 084 327 3196 | Email: maggie@fundzafinwell.co.za | Website: www.fundzafinwell.co.za



Natascha Viljoen

Amplats CEO



ANGLO American Platinum (Amplats) CEO, Natascha Viljoen questioned whether there was united political support for South Africa's nascent hydrogen industry.

This is despite publication in 2021 of a hydrogen roadmap by the government aimed at plotting the direction of the sector. The roadmap envisages the development of a hydrogen energy industry as a major catalyst for job creation.

Viljoen's comments, made at the Hydrogen Economy conference in Johannesburg last year, were pointed specifically to the "tension" between hydrogen generation and the migration from fossil fuel production or "just transition". Said Viljoen: "Even though there is a clear hydrogen roadmap I'm not sure there is clear political support. It's that tension about achieving just transition and how we move into the renewable space".

The roadmap, officially launched by Minister of Higher Education, Science and Innovation Blade Nzimande, identified nine programmes as South Africa chases a 2050 target for a competitive hydrogen economy. It followed the launch of the 'Hydrogen Valley Feasibility Report' by Nzimande's department which was also backed by Amplats, Bambili Energy, and energy and

services company ENGIE. A Hydrogen Valley is a term describing development of a hydrogen powered industrial cluster starting in the Limpopo province's Mokopane, near Amplats's Mototolo mine, and extending through an industrial and commercial corridor to Johannesburg and Durban.

Asked if there was a 'go-to' ministry in government for hydrogen industrial development, Viljoen replied: "I don't think there is a single point for hydrogen in government". This was a frustration as the private sector sought to remedy South Africa's energy crisis with renewable energy deployment, Viljoen said.

Citing the Limpopo province, Viljoen said there was 74% unemployment of 18 – 24 year-olds, equal to about 250,000 people against which the Mototolo mine employs 3,500. "We can enable only a certain amount in the mining sector. Collaboration with government is the key enabler," she said.

"There is no shortage of private sector money. Everyone I talk to says we don't have the bankable feasibility projects. Our government's role is how can it unlock and enable this huge growth potential. Corruption and crime are a real challenge." ◆

Build thriving communities with **YES**

Create jobs for youth and integrate with your ESG goals and/or gain up to two levels on your B-BBEE scorecard through YES.

YES is a private sector led initiative which enables broad-based change and uplifts communities through creating critical work opportunities for youth.

Join over 2,200 businesses committed to co-creating a future that works.

#SayYES



YES
4YOUTH
.CO.ZA





M4 Foundation Provides



Sanitary Pads and Support Young Women in Schools

In the quest to fight menstruation stigma and period poverty in Africa, the M4 Foundation continue to bridge the gap by addressing what has for decades been considered taboo. Since the inception of the Young Women's Dialogue, more than 500 young girls from Attridgeville and Soweto have benefited from this project.

This is the platform where young girls can openly discuss menstrual health and hygiene related issues, that includes different methods available to manage their menstruation and the side effects associated with menstruation.

Mabafeng primary school in Attridgeville is amongst the schools adopted by the foundation. Through generous donations from companies including Mining CSI, Vuma Fibre, Mampuru Waste Management, and many individuals, the foundation is able to sponsor a few schools with boxes of sanitary pads every month. In an interview, Ms Ingrid Zokoza who is the Head of Department at Mabafeng primary school said the school welcome the project as it makes a huge difference. "Our children come from different backgrounds and some are from

extremely poor families. Since the dialogue, our girls are free to talk to us about menstruations and they don't miss school anymore because they know that they can get free sanitary pads at school". During the dialogue at the school, many pupils said they would never discuss menstrual related issues with their parents or teachers.

A number of pupils admitted to using toilet papers, t-shirts, socks and baby pampers as makeshift pads in order to manage their menstruation, this they did during exams when they are not allowed to miss school. However, they also complained that makeshift pads resulted in them having low self-esteem and which affects their concentration, therefore limiting them from reaching their full potential.

The M4 Foundation will continue this initiative not only in South Africa, but in the African Continent. Until the world accepts that menstruation is a natural and unavoidable process that every female has to experience and until the sanitary pads are free (same as condoms) then our journey as the foundation is far from over. ◆

Article by Vusumuzi Lebombo

To support this initiative please contact:

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BACKGROUND

M4Foundation (NPO: 253-573) was registered in January 2021, not for profit organisation as an effort to address the trust deficit that exist between mining communities, local municipalities and mining companies. The founding members have a combined 20 years' experience within the mining sector, local municipality area and community engagement.

MANAGEMENT EXPERTIES

The management and expert partners have done comprehensive research study in community engagements and development between different stakeholders.

The Foundation succeeded in collating data working with over 40 different mines in South Africa regarding Social & Labour Plans (SLP's) and Corporate Social Investment (CSI).

CASE STUDY

In one local municipality the combination of twenty-three mines in the last five years budgeted and spent in excess of R1,09 billion for their SLP expenditures while five mines spent a combined

R22,5 billion on procurement to service providers, but community unrests and mine disruptions continues unabated. M4 Foundation – *For Mining Communities* was founded to prevent these unrests and provide simple practical solutions that bring peace, social cohesion and economic development within mining areas.

COMPETENT SERVICE AREAS:

- Prevent community disruptions of mine operations by offering alternative value for communities
- Help mines and communities engage and understand each other (Conflict Resolutions)
- Bring business incubation expertise to establish and train local companies.
- Fund SMME's that are ready to provide services to mines and other businesses
- Coordinate community organization, traditional leaders and municipal officials
- Present community challenges to mines and mine challenges to communities
- Represents mines as collective entity for Public Relation purposes
- Handle responsibilities from mines to work with community ◆



Ms Tebogo Mosito
Founder & Managing Director

VISION

We pursue being the most preferred service provider and supplier in the mining, hospitality, and construction industry.

MISSION

Through commitment, continuous improvement, feedback from our clients, skills development, health, and safety compliance, and just in time delivery we will achieve our vision. With our products we aim to maximize client's productivity, improve security and healthy environments, ensuring job opportunities for our local rural community.

CORE VALUES

- Service Excellence
- Reliability and Honesty
- Quality & Innovation
- Accuracy and efficiency



SERVICES

FABRICATION AND MECHANICAL ENGINEERING DIVISION

- Fabrication, Refurbishment & Engineering services
- Supply and repair submersible pumps, gearboxes, dampers
- Repair & rewind low voltage motors up to 132kw, winch motors & fans
- Supply of mechanical parts & tools, bearings, valves, V-belts, pulleys
- Supply of S355JR, VRN, Bennox or StainlessSteel material, stringers
- SMPP and corrosion protection
- We also distribute Spectrometer laboratory instruments



SURFACE AND UNDERGROUND MINING SUPPORT DIVISION

- Installation and repairs of railways and drains
- Contract Mining (shaft sinking, stopping and development)
- Conveyor belt splicing and maintenance
- Installation of secondary support (cable anchors, wire mesh, ventilation seal)
- Reclamation and shotcrete application
- Mine Health and Safety Awareness Programs
- Rentals of drill rigs and earth-moving equipment, repairs of LHD bucketts



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A New Approach

to the Regulation of Residue Stockpiles and Deposits on the Cards

By Kirsty Kilner, Partner & Lerato Molefi, Associate from Webber Wentzel

Climate change has put a spotlight on various sectors to ensure that they comply with specific regulations governing pollution control. The mining sector, in particular, is currently facing environmental legal over-regulation which has created a negative atmosphere with regards to residue stockpiles and deposits regulations.

The National Environmental Management Amendment Act IV (NEMLAA IV) will introduce a shift in the regulation of residue stockpiles and deposits when it is signed into law. Residue stockpiles and deposits are currently regarded as waste, and are, therefore, regulated under the National Environmental Management: Waste Act 59 of 2008 (Waste Act).

NEMLAA IV will amend the definition of waste to exclude residue stockpiles and deposits. This removes the regulation of residue stockpiles and deposits from the Waste Act. Residue stockpiles and deposits will instead be regulated in terms of the National Environmental Management Act 107 of 1998 (NEMA).

Transitional arrangements will be imposed to facilitate this change. This means that:

- Any approval granted or Waste Management Licence (WML) issued in relation to residue

stockpiles and deposits under the Waste Act will remain valid until it lapses, or until it is replaced under NEMA.

- The Regulations regarding the planning and management of residue stockpiles and deposits, 2015 that were published under the Waste Act remain in force and will be deemed to have been promulgated in terms NEMA.

When NEMLAA IV becomes operational (and subject to the transitional arrangements), a WML will no longer be required to authorise residue stockpiles and deposits. It is expected that residue stockpiles and deposits will, in future, be required to be regulated in terms of Environmental Authorisation (EA) and approved EMPR, issued in terms of NEMA.

We anticipate that further changes will need to be made to the NEMA listed activities to facilitate this regulatory shift. We similarly anticipate that the residue stockpile and deposit regulations will also be amended to bring them in line with the changes that will be imposed by NEMLAA IV.

The proposed amendments to the regulation of residue stockpiles and deposits should be kept in mind when considering the planning and management of one's residue stockpiles and deposits. ♦

Beyond Zama-Zamas

New Vision Required for Gauteng Mining Belt - Reinier Minny

There is an alternative future for the Gauteng mining belt that offers solutions beyond the current tensions between mine owners, local residents and zama-zamas.

Instead, a revitalised region has the potential to support a vibrant economy and attract job-creating investments which do not depend primarily on extractive industries.

At many locations mining companies are already working together with government, environmental groups and communities to repurpose operations and free up land for new activities, including housing.

A collaborative approach offers more workable options to spatial planners to address the current situation where the focus has too often been on singular elements such as the presence of survivalist miners – or zama-zamas – and the reaction of local communities who have become tired of criminal activities.

The reality is that there are practical solutions for the future redevelopment of the vast metropolis stretching from Springs and Tsakane in the east, through Johannesburg and Soweto, to Klerksdorp and Merafong, the focal points of the current spate of community activism.

Decision makers have, for, many years, been looking for solutions to the legacy of mining activities – closed shafts, burgeoning unemployment, widespread poverty and the toxic scars of acid mine draining, decanting, tailings, dust pollution and the hollowed-out

tunnels left on the landscape. The challenges are complex, but solutions can be found. How do you inject vibrancy and sustainable growth into areas that have been overly dependent on a single commodity?

How do you create viable living spaces for communities and protect them from the ravages of environmental decay? How do you engender a revitalised mining belt which can breathe life in flagging local economies and generate new opportunities for prosperity?

In the west, where some of the world's deepest shafts, such as Mponeng, have been sunk the industry has produced a solution to consolidate tailings into a single facility. This will not only make mining activities more efficient, but also solve some of the most pressing environmental issues and free up vast tracts of land for other development.

In the south of Johannesburg, the reintegration of former mining land into the rest of the city has been taking place for decades. The iconic FNB Stadium and Gold Reef City were constructed on mining land and residential suburbs such as Booysens, long considered to be a 'bad address,' now has the potential to be a hub for the growth of a future 'smart city.'

Other areas in the south can benefit from the existence of infrastructure such as roads, water and power networks and have huge potential for high-density housing, light industries, small-scale farming and agri-processing. ◆

Improving Uptime and Increasing Profitability in The Mining Sector

EATON

Given the business climate recently, it is understandable why many companies have had to cut back. However, cutting corners on crucial maintenance won't pay off in the long-run – vehicle and equipment failures and malfunctions can slow and even completely stall operations by far longer for mines than routine maintenance operations would require.

It's for this reason that routine maintenance, along with several other crucial factors, are key to improving uptime and increasing profitability for mines.

Maintenance – working smart, not hard

Mining operations and machines, including drills, trucks and processing equipment, vary in nature and complexity, and each part has its own wear points, any of which could fail if unmaintained and cause significant periods of downtime.

While hesitation around frequent maintenance is understandable from a cost and productivity standpoint, technological advances in preventative maintenance have made these processes a lot more streamlined, efficient, and cost-effective. Preventative and corrective maintenance are the two traditional maintenance approaches that the global mining industry has long relied on.

However, predictive maintenance strategies have shown up as a far more efficient solution. Devan Reddy, Field Product Manager – Power Management and Control Components at Eaton, says that with digital transformation creating new possibilities for the mining industry, predictive

maintenance has become a crucial part of the maintenance conversation too.

“And the benefits of predictive maintenance for mines are two-fold – not only does it help prevent catastrophic failure that can cause damage to personnel and equipment, but it also allows maintenance staff to plan correctly and put in place alternate processes to try and keep the plant operating.”

Examples of predictive maintenance and predictive maintenance sensors include vibration analysis, oil analysis, thermal imaging, and equipment observation. These innovations are increasingly being used in mines to ensure increased uptime by optimising how maintenance gets done.

“Ultimately, maintenance is a manual intervention, but the process of understanding when to perform maintenance can be automated. This is where Industrial internet of things (IIOT) can come in to play,” says Reddy. “IIOT fundamentally is all about getting information via sensors or equipment with intelligence built in. This information can be used to automatically raise alarms when pre-determined conditions, for example operating temperatures, are exceeded.”

The growing need for alternative energy

Ageing machinery and normal wear and tear are not the only factors affecting uptime and necessitating maintenance. Mining operators at some of the largest mines in the country have reported operations and processes being severely affected by load-shedding. In fact, mines were forced to halt operations entirely in 2019 as a result of stage 6 loadshedding being implemented and requests from the national utility to reduce consumption. ♦



Magiktouch Photography

Pauline Pitso

Siyabangena Women in Mining and Projects (SWIMP) is a company founded by Pauline Pitso. The company has the capability to render services such as mining, construction, engineering services and other mining related services.

Siyabangena Women in Mining and Projects has added to their offering a drilling solution in joint partnership with Miro Engineering.

Using technology, they manufacture drill rigs one of them being the Tlou Electro-Hydraulic drill rig which will change the way people look at drilling forever. This locally manufactured product is safe to use, efficient in production, remote controlled and produces zero emissions. It is currently able to assist with safe mining methods.

SOME OF THE MINING SERVICES THEY RENDER ARE AS FOLLOWS:

- Haulage Rehabilitation - Tip Excavation
- Drilling & Blasting - Refuge & Battery Bay
- Winch Erecting - Cover Drilling
- Underground Construction - Secondary Support
- Supply of Mining Consumables - Ventilation Construction & fire door installation
- Sweeping & Vamping



ENGINEERING SERVICES:

TLOU DRILL RIG/BOLTER APPLICATION & DESIGN FEATURES:

- Horizontal & Vertical Drilling
- Remote Control Operation (Work from a Safe & Supported Area)
- Stabilizers lower automatically when not tramming
- Carbon Neutral – zero Emissions
- Electro Hydraulic Powered
- LED Lighting
- Energy Stop Button

ADVANTAGES:

- Locally Manufactured
- Simple Design, Easy to Operate and Maintain
- Trackless and Conventional Mines
- Safe Mining Method
- 24 Hour After sales Support

OTHER ENGINEERING SERVICES INCLUDE:

- Conveyor belt manufacturing and operations
- Cleaning & Maintenance- Head Transfers
- Bulkhead Chutes-Supply & Installation of HDPE piling, bends and fusing. ♦



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Boshoek Smelter Supports

Local SMME With Machinery Worth Over R2 Million

During August 2022, in their latest bid to develop local businesses from their host communities, Glencore Ferroalloys' Boshoek Smelter operation has donated a 16 000-litre water bowser and a skid steer worth over R2 million to Rustenburg based business, Radinku Construction Transparent & Allied.

The relationship between Boshoek Smelter and Radinku Construction Transparent & Allied, a local black-owned SMME, started ten years ago when the business had a contractual agreement with the smelter to deliver the smelter's slag within the Macharora community. The frequency and load amounts later increased due to the performance and overall reliability of the business, which was a contributing factor to the business later providing Tractor Loader Backhoe (TLB) services for the smelter's slag loading.

The handover of the donated equipment which forms part of Glencore's Enterprise Supplier Development (ESD) programme, was held at Boshoek Smelter and attended by the Radinku Construction Transparent & Allied team, Royal Bafokeng Nation Representative Kgosana Thabo Diale, Traditional Counsellor Tshupo Phatshwane, as well as the Ferroalloys' group CSR team and the Boshoek Smelter Management team.

"Wherever we operate, Glencore's corporate strategy is to establish firm partnerships with local community service providers. We aim to actively foster strategic relationships with local businesses

to participate in our supply chain or partner with us. Not doing so would mean we run the risk of operating as an island in a bigger community and that completely goes against our mission of progressing together.

Radinku Construction Transparent & Allied is a shining example of unwavering commitment. Despite many obstacles, the owner of the business, Julius, did not get discouraged, but instead, he stayed the course and fought for what he wanted for himself, his family and his community.

In addition to the machinery donation, Boshoek Smelter also supported the business with office equipment and furniture. Through the support given by Glencore, the business will now be able to employ two more drivers thus creating more job opportunities and improving the lives of community members.

"This is the first project of such a magnitude for the smelter and it was important for us to have the right partner to help facilitate it and we believe that there is no partner more deserving than Radinku Construction Transparent & Allied.

It is important for us to not only speak about supporting local SMMEs but to also act on it and today is a big symbol of our commitment to our local communities." said Boshoek Smelter's General Manager, Riaan Cilliers. ◆



MTN SA Foundation Brings Opportunities

to A Rural Mpumalanga Community by Helping Close the Digital Gap

The MTN SA Foundation has handed over a high-tech multimedia centre to the Mawewe Community Centre in Mgobodzi Village, Nkomazi Local Municipality, as part of a longstanding Public Private Partnership (PPP) with the Department of Social Department. The partnership is aimed at skills development, fighting poverty and building a caring society for all.

The 20-seater multimedia centre is equipped with desktops, free MTN Wi-Fi connectivity for 24 months, an interactive white board, laser printer and other necessary hardware and software. To create a seamless experience for visitors and ensure that they can easily access and enjoy the benefits of the technology, ICT training will also be provided for centre staff.

“The technical and information gaps common in communities and schools outside major urban areas prevent thousands of South Africans from accessing the online resources that have the potential to enrich and transform their lives”, says Kusile Mtunzi-Hairwadzi, General Manager of the MTN SA Foundation. In provinces like Mpumalanga, geographic challenges like

mountainous terrain add to the difficulty of service delivery. “Effective public and private partnerships are needed now more than ever to deliver infrastructure and support services to schools and community centres. It is imperative to building an inclusive, informed society that will ensure rural learners and communities’ benefit from technology, communication services and the growth opportunities that come along with digital skills development”, says Mtunzi-Hairwadzi.

“Each year we work hard to extend our reach in driving economic growth and community upliftment across the country. Our partnership with Deputy Minister of Social Development, Hendrietta Bogopane-Zulu on this project is aimed at doing just that, and we will continue to work hard to ensure more people in more communities are given every opportunity to succeed at school, or in life, and be future-fit,” says Mtunzi-Hairwadzi.

To date, MTN SA has handed over 500 multimedia centres in schools and communities across the country, connecting thousands of learners and many communities with the technology and skills needed to thrive in the modern, connected world.

ABOUT US

A company founded in 2021 to provide independent and balanced advisory and consulting services to the mining industry including all stakeholders affected by mining operations to ensure inclusive growth in line with the objectives of the Mineral and Petroleum Resources Development Act (MPRDA).

Our pursuit is driven by commitment to deliver our promises to our clients by operating responsibly, executing with excellence, well informed and fair advisory and consulting services. Providing solutions that are based on research and innovative ideas to take advantage of opportunities for sustainable growth within the mining industry.

The founder and CEO Mr Sunday Mabaso draws experience from 20 years of service in the Department of Mineral Resources and Energy in which for seven years he served as a Regional Manager (3 years in Northern Cape and 4 years in Gauteng).

The founder has acquired various qualifications in mining and an MBA Degree with Milpark Business School, and a Post Graduate Certificate: Climate Change and Energy Law with the University of Witwatersrand and a certificate in Energy Efficiency and Sustainability with University of Cape Town completed in January 2022

OUR STRATEGIC SERVICES

MPRDA AND NEMA

Advisory on compliance with legal requirements in terms of the MPRDA and NEMA and related legislations in the mining industry.

MINING CHARTER

Advisory and training on Mining Charter compliance including employees and community share participation schemes.

CLEANER ENERGY SOLUTIONS

Advisory on cleaner energy transition and carbon emissions reduction.

ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG)

Advisory on ESG inline with international best practices.



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OUR CORE TEAM



Sunday Mabaso
Principal Consultant & CEO



Londolani Sitsula
Senior Consultant: Mining
, Waste and Environment



Mulalo Mafunisa
Social Labour Plans And Stakeholder
Engagements



Cecil Dau
EIA And Compliance



Retang Kgaphola
Water And Waste Manangement
Consultant



Lebohang Mabaso
HR, Admin And Flnance

Applications

Mineral rights
Environmental Authorizations
Waste Licenses
Water Use licenses
Mine Closure

Inspections

MPRDA & NEMA
Compliance Inspections

Mine Closure And Rehabilitaion

Conduct socio-economic and environmental mine closure objectives. Rehabilitation and repurposing land for alternative economic end-use capabilities

Visit our website for more information: www.vahlengweadvisory.co.za





info@sagislogistics.co.za



064 552 4263

CAR RENTAL SERVICES



SAGIS Logistics is a car logistics company specializing in facilitation of transportation for car rental and hiring in South Africa. Due to high demand of transportation services post covid-19 period, SAGIS Logistics was established to cater for the traveling market for social, business, tourism and economic travel needs.

SAGIS Logistics has partnerships with most car rental companies in South Africa, such as AVIS, Europcar, Hertz and Dollar Thrifty of which are all available throughout the country and all the airports.

TRANSPORT FACILITATION SERVICE

The company is able to provide vehicles with unlimited km in most cases due to wide range availability of vehicles from car rental companies which makes it easy and possible.



UNIQUE OFFERINGS

- No credit card required
- EFT Payment
- Cash Deposit
- Unlimited Kilometres
- All car groupings available
- Individuals, corporates & groups

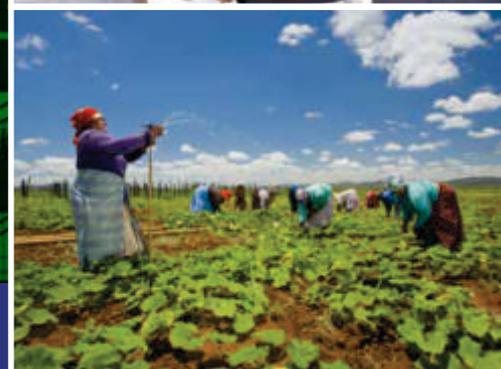
Com Consulting Can Assist

Com Consulting can assist with the development of Mega LED projects in the local municipal areas, funded by mining companies. The projects are in most instances incorporated in the existing project plans in the Integrated Development Plans for the various municipalities, as well as plans from the DMRE. These areas are based on mining company Social & Labour Plans.

OUR AREAS OF EXPERTISE:

- Mine Rehabilitation
- Social & Labour Plan Consultants
- Conflict Resolutions
- Project Management
- SLP and IDP Capacity Training
- Stakeholder Engagements
- Bridge Between Mines, Municipalities and Communities
- Local Enterprise & Supplier Development
- Mining Unrests Prevention Solutions
- Media Communications
- Second Language SLP Translation/Draft Required by Mining Charter 2018

Com Consulting



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**mineral resources
& energy**

Department:
Mineral Resources and Energy
REPUBLIC OF SOUTH AFRICA

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Our Partners

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