MINING DEVELOPMENTS MAGAZINE
October/November 2025 Issue

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The lube kitchen series part 9: metal deactivators – oiling the wheels of corrosion control

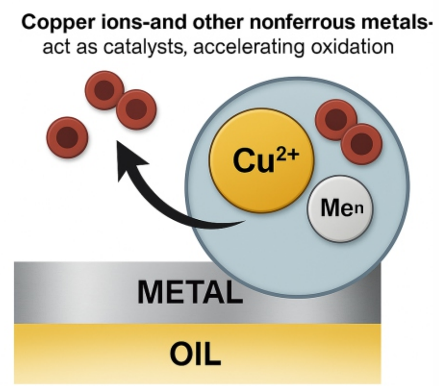
By Steven Lumley, technical manager, WearCheck

Metal deactivators play a key role in the fight against corrosion. This is the next focus in the ongoing discussion about lubricant additives, with condition monitoring specialist company, WearCheck.

Metal deactivators are another important additive in lubricating-oil formulations, especially with the growing use of non-ferrous metals, notably copper- and aluminium-containing alloys, that can be prone to the negative effects of staining and corrosion.

These metals (or more specifically their ions) are also catalytically active, and act as reaction sites that can trigger lubricant degradation through oxidation of the base oil.

Metal deactivators belong to the corrosion-inhibitor class of additives, and they work their magic on metal surfaces, especially non-ferrous metals, but also do their thing with wear particles that are dissolved or suspended in the oil.

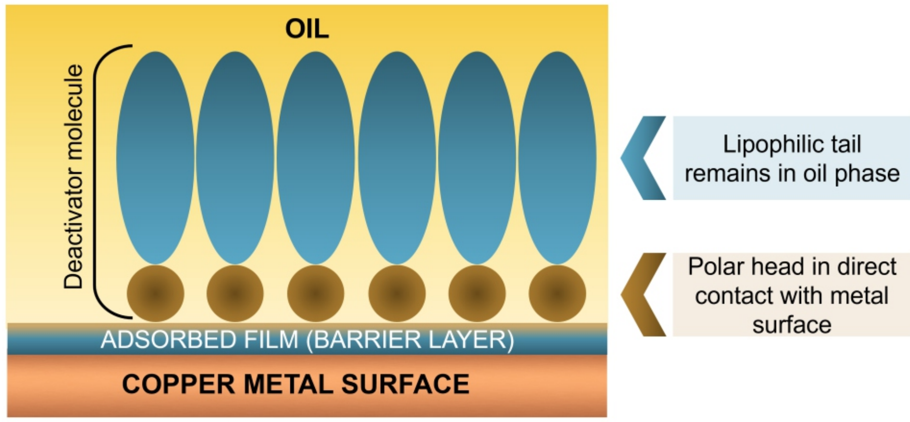


These specialised additives contain surface-active molecules that adsorb on metal surfaces. The best-understood mechanism for how they function involves the formation of an inactive barrier film that inhibits cathodic and/or anodic reactions that can accelerate oxidation and cause corrosion.

Metal deactivators are typically organic compounds that contain nitrogen or sulphur atoms. These atoms have a high affinity for metal ions and can form strong, stable bonds with them. This allows the additives to neutralise or deactivate these metal ions in the oil, which reduces their negative effects.

Lubricant blenders add metal deactivators to oils, primarily to protect copper and yellow metals in most automotive and industrial lubricants, including greases and metal-working fluids.

But wait - there's more! The protective film that metal deactivators form on a metal surface is also thermally stable, water insoluble and chemically bonded.
Please visit www.wearcheck.co.za or email marketing@wearcheck.co.za for more information.



What are metal deactivators?	Organic Complexes containing nitrogen or sulphur, amines, Sulphides and phospahtes
What do they do?	Reduce catalytic effect of metals on oxidation rate
How do they do it?	Form an inactive film on metal surfaces by complexing with metallic ions

Author bio:
Steven Lara-Lee Lumley oversees technical development and training for condition monitoring specialists WearCheck. She holds an N6 mechanical engineering diploma (HND N6) as well as Honeywell aerospace and ICML III accreditations.
Steven joined WearCheck in 2008 as a diagnostician and worked her way up to the position of senior diagnostician, during which time she diagnosed her millionth used-oil sample in addition to running oil analysis training courses for customers in several countries. In 2015, Steven was promoted to the position of technical manager.

Titan Lithium Advances Exploration in Tanzania to Unlock Critical Lithium Resources for the Global Green Economy

Dar es Salaam, Tanzania – Titan Lithium Inc. an emerging critical minerals explorer, is pleased to announce progress in its lithium exploration programs across highly prospective areas in Tanzania. With demand for lithium accelerating due to the growth of electric vehicles (EVs), renewable energy storage, and the global shift toward decarbonization, Titan Lithium is positioning Tanzania as a future hub in the international lithium supply chain.

Tanzania: A New Frontier for Lithium
Tanzania has rapidly gained recognition as one of Africa's most promising destinations for critical mineral exploration. Known for its rich geological endowment and supportive regulatory environment, the country is attracting global investment to its mining sector.

Titan Lithium's exploration concessions are strategically located in lithium-bearing basins, where extensive surface sampling and preliminary geophysical work have revealed strong lithium anomalies. The company is pursuing a systematic exploration strategy, combining advanced technology with on-the-ground expertise to delineate potential large-scale resources.

Exploration Highlights
Geological Advantage: Tanzania's rift valley systems host favorable conditions for both clay-hosted lithium and potential hard-rock pegmatite deposits, providing exploration diversity.

Ongoing Programs: Titan Lithium's field teams are conducting geochemical sampling, mapping, and geophysical surveys to identify high-priority drill targets. Initial assay results from reconnaissance work indicate lithium concentrations consistent with economically viable systems.

Infrastructure Benefits: Proximity to ports such as Dar es Salaam and existing road networks provide logistical advantages for future development and export.

These attributes strengthen the case for Tanzania as a competitive player in the global lithium market, with Titan Lithium positioned at the forefront of this opportunity.

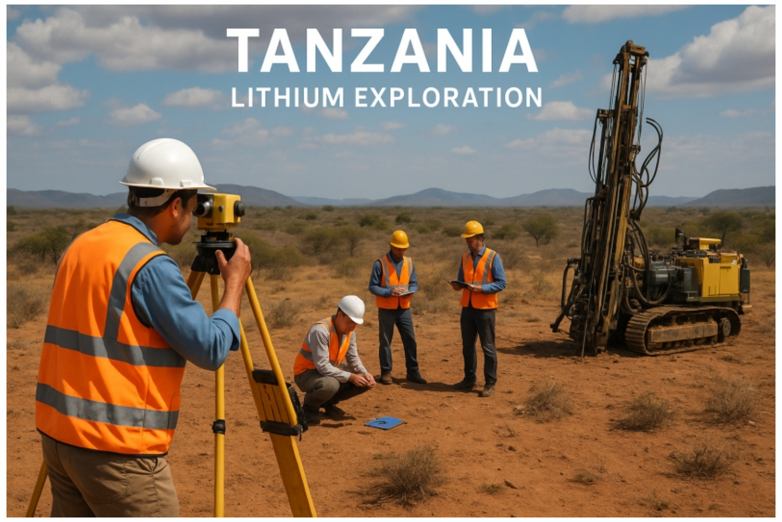
Supporting Tanzania's Development
Titan Lithium is committed to ensuring that its operations in Tanzania contribute directly to national and regional development goals. The company is aligning its strategy with the Tanzanian government's vision of sustainable mining that creates jobs, enhances skills, and builds resilient communities.

Key commitments include:
Job Creation: Hiring locally wherever possible, with plans to expand employment opportunities as exploration programs grow.
Skills Development: Providing training and capacity-building programs for Tanzanian workers, enabling long-term participation in the mining sector.
Local Procurement: Prioritizing partnerships with Tanzanian businesses for supplies and services, boosting the local economy.
Community Engagement: Establishing transparent dialogue with local leaders and communities to ensure inclusive development.

Environmental and Social Responsibility
Recognizing the importance of sustainable resource development, Titan Lithium integrates Environmental, Social, and Governance (ESG) principles into all exploration activities.
Low-impact exploration methods are being deployed to minimize environmental disturbance.
Baseline environmental studies are underway to guide future project development.
Renewable energy integration, including solar-powered field camps, is reducing operational emissions.
Progressive land rehabilitation ensures exploration sites are responsibly managed and restored.
By embedding ESG practices into its operations, Titan Lithium is not only meeting global investor expectations but also building trust with Tanzanian stakeholders.

Strategic Importance
Lithium has been classified as a critical mineral by leading economies including the United States and European Union. With global supply chains under pressure, diversified sources of lithium are urgently needed to support the booming EV and energy storage markets.

Tanzania's geographic position provides a strategic advantage, offering access to global markets through established ports and trade routes. Titan Lithium's exploration success in the region has the potential to attract international partnerships, off-take agreements, and downstream investment in Tanzania's growing mining sector.



CEO Statement
Titan Lithium CEO commented:
"We are proud to be advancing exploration in Tanzania, a country with world-class mineral potential and a clear commitment to responsible resource development. Our early results are highly encouraging, and we believe Tanzania can emerge as a significant source of lithium for the global market. At the same time, we are committed to ensuring that our projects create lasting benefits for Tanzanian communities through jobs, training, and sustainable growth."

Outlook
In the months ahead, Titan Lithium plans to:
- Complete initial drilling campaigns to confirm depth and grade continuity of lithium anomalies.
- Publish maiden exploration results to establish the potential scale of resources.
- Expand stakeholder engagement with government agencies, local communities, and industry partners.
- Advance permitting and development studies to prepare for potential project scaling.

These steps will establish Titan Lithium as a leader in Tanzania's critical minerals sector, advancing both shareholder value and national development objectives.

About Titan Lithium Inc.
Titan Lithium Inc. is a U.S.-listed mineral exploration company focused on the discovery and development of high-quality lithium resources in Africa and beyond. With exploration concessions in Tanzania and a portfolio of projects in other prospective regions, Titan Lithium is committed to building a sustainable, ethical, and profitable lithium supply chain that supports the global transition to renewable energy.

Dabel Gold Project Set to Transform Marsabit County into a Hub of Mining and Economic Growth

Marsabit County, Kenya – 08/09/2025 – A new dawn is breaking for Northern Kenya with the unveiling of the **Dabel Gold Project**, a large-scale exploration and mining initiative located in the mineral-rich landscapes of Marsabit County. Spearheaded by Company, the project is positioned to become one of Kenya's most significant gold developments, promising not only to expand the country's mineral portfolio but also to deliver lasting social, economic, and environmental benefits to the communities of Northern Kenya.

Unlocking Marsabit's Mineral Wealth
Marsabit County, historically recognized for its pastoral economy and cultural heritage, has in recent years emerged as a frontier for mineral exploration. Preliminary geological surveys and exploration campaigns around the Dabel region have revealed highly promising gold deposits, with assay results indicating grades that rival some of Africa's most productive gold belts.

The Dabel Gold Project represents the first large-scale commercial mining initiative in this part of Kenya, opening opportunities for Marsabit to step onto the global mining stage. With an investment framework of Million of Us dollars, the project underscores growing investor confidence in Kenya's extractives sector, supported by improved mining legislation and the government's "Big Four Agenda" that includes manufacturing and resource-driven development.

Economic Transformation and Job Creation
One of the defining features of the Dabel Gold Project is its potential to catalyze economic transformation in Marsabit County. Over the next five years, the project is expected to:
- Create more direct jobs during exploration, construction, and mining operations.
- Generate indirect employment opportunities in transport, hospitality, construction, and other service industries that will thrive around the project.
- Boost local business enterprises, with procurement policies designed to prioritize local suppliers and contractors.
- Contribute significantly to Kenya's GDP, enhancing the country's mineral export revenues.

Speaking during the project announcement, AJN Resources CEO's, CEO of AJN Resources emphasized:
"The Dabel Gold Project is more than just a mining venture—it is a development catalyst.

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Contributions
The editors welcome news items, press releases, articles and photographs relating to the Mining Industry. These will be considered and, if accepted, published. No responsibility will be accepted should contributions be lost, damaged or incorrectly printed.

Our vision is to integrate local communities into the value chain while ensuring Kenya benefits equitably from its natural resources."

Commitment to Community Development

Beyond economic metrics, the Dabel Gold Project is deeply anchored in community partnerships. The project team has engaged in continuous dialogue with local leaders, elders, and residents to ensure inclusive decision-making and benefit-sharing.

Key initiatives include:

- Education Support: Establishing scholarship programs and investing in school infrastructure to ensure youth in Marsabit have access to quality education.
- Healthcare Improvements: Partnering with county health facilities to provide improved access to clinics, mobile health services, and specialized medical camps.
- Water and Sanitation Projects: Investing in boreholes, water pans, and modern sanitation systems to address long-standing water scarcity challenges in the region.
- Livelihood Diversification: Training and equipping local communities in agriculture, crafts, and small business development to reduce overreliance on mining.

Environmental Sustainability at the Core

Mining inevitably raises questions about environmental impact, and the Dabel Gold Project has placed sustainability at the forefront of its operations. An Environmental and Social Impact Assessment (ESIA) has been completed in collaboration with the National Environment Management Authority (NEMA), ensuring compliance with Kenyan and international environmental standards.

Key sustainability commitments include:

- Responsible Land Use: Minimizing land disturbance through progressive land reclamation and rehabilitation.
- Biodiversity Protection: Preserving wildlife corridors and natural habitats unique to Marsabit's ecosystem.
- Water Conservation: Implementing closed-loop water recycling systems to minimize wastage and avoid contamination of local water sources.
- Renewable Energy Integration: Exploring solar and wind energy to power parts of the operation, leveraging Marsabit's abundant renewable energy potential.

"AJN Resources is committed to operating responsibly and transparently. We believe mining should uplift communities without compromising future generations," said [Sustainability Director], Director of Sustainability at AJN Resources.

Partnership with Government and Stakeholders

The success of the Dabel Gold Project has been made possible through strong collaboration with both the Government of Kenya and Marsabit County leadership. The project aligns with Kenya's Mining Act 2016 and the African Mining Vision, which prioritize local value addition, revenue-sharing, and responsible mining practices.

The Ministry of Mining has expressed support, recognizing the project as a flagship investment that will not only enhance Kenya's gold output but also attract further foreign direct investment into the extractives sector.

Governor of Marsabit County hailed the project as "a milestone that will put Marsabit on the map for the right reasons, creating opportunities for our youth and ensuring the region becomes a driver of Kenya's economic future."

Regional and Global Significance

The Dabel Gold Project comes at a time when global demand for gold remains strong, driven by both industrial uses and its role as a safe-haven asset. Kenya, which has traditionally relied on agriculture and tourism, is now diversifying its economy through extractives, and the Dabel initiative could position the country as a competitive gold producer within East Africa.

This project also has the potential to foster cross-border economic ties, with Marsabit County's proximity to Ethiopia providing opportunities for regional trade and investment collaboration.

A Vision for the Future

The Dabel Gold Project is not just about extracting gold; it is about building a sustainable future for Marsabit and Kenya. With its focus on community empowerment, environmental responsibility, and inclusive growth, the project sets a benchmark for how mining can be conducted responsibly in Africa.

"We envision a future where Marsabit's name is synonymous not only with cultural richness and resilience but also with innovation, opportunity, and sustainable growth. The Dabel Gold Project is a step toward that future," remarked Company AJN Resources CEO.

About AJN Resources

We a leading mineral exploration and mining company committed to unlocking Africa's natural resources responsibly. With projects spanning [list other regions/countries if applicable], the company emphasizes sustainable mining practices, stakeholder partnerships, and long-term value creation for host communities and countries.

Helium One Advances Southern Rukwa Project in Tanzania, Targeting Strategic Helium Supply for Global High-Tech Industries

Dar es Salaam, Tanzania – Helium One Global Ltd. (AIM: HE1), the leading explorer of primary helium in Africa, is pleased to provide an update on the advancement of its Southern Rukwa Helium Project in Tanzania. The company is moving forward with exploration and appraisal activities aimed at unlocking one of the world's most significant undeveloped helium resources, positioning Tanzania as a key contributor to the global helium supply chain.

Helium: A Critical Global Resource
Helium is a finite and irreplaceable element with applications that extend far beyond balloons. It is critical to high-tech, medical, and energy industries, with uses in MRI scanners, semiconductors, fiber optics, aerospace, and quantum computing. Global demand for helium is growing rapidly, while supply remains constrained due to geopolitical instability and limited production capacity concentrated in a handful of regions.

The Southern Rukwa project represents a unique opportunity to bring a new, secure, and sustainable source of helium to the global market. Tanzania's potential to host large, high-grade accumulations of helium has drawn attention from investors, scientists, and industrial partners worldwide.

The Southern Rukwa Helium Project
The Southern Rukwa Project is located in the Rukwa Rift Basin in southwestern Tanzania, an area of approximately 3,590 square kilometers. Extensive exploration work to date has confirmed the presence of helium-bearing systems, with concentrations reaching up to 10.6% helium – far above typical commercial production levels, which are often below 1%.
Helium One's exploration strategy at Southern Rukwa is focused on:
Seismic and Geophysical Surveys: Identifying structural traps capable of hosting commercial helium accumulations.

Drilling Campaigns: Appraisal wells designed to prove the size and recoverability of helium resources.

Resource Development: Advancing toward a maiden reserve estimate and scoping studies to evaluate commercial production options.

With promising geology, encouraging early results, and a favorable regulatory environment, Southern Rukwa is regarded as one of the most prospective primary helium projects globally.

Tanzania's Strategic Position
Tanzania provides a supportive investment climate and strong infrastructure to enable helium exploration and development. The Rukwa Project is well-situated near established road networks, power supply, and export routes through the port of Dar es Salaam. This logistical advantage strengthens the case for timely development and international export of helium from Tanzania to global markets.

Moreover, Tanzania's government has prioritized critical minerals and resources as part of its broader economic transformation strategy, creating a conducive environment for responsible investment and resource development.

Commitment to ESG and Local Development
Helium One is committed to operating with the highest standards of Environmental, Social, and Governance (ESG) responsibility. The company's exploration and development programs are designed to minimize environmental impact while maximizing social benefits.
Key initiatives include:

- Local Hiring & Training: Employing and training Tanzanian workers, ensuring skills transfer and long-term career opportunities.
- Community Engagement: Building transparent relationships with host communities, ensuring that benefits are shared fairly.
- Environmental Protection: Conducting baseline environmental assessments and implementing best practices for land stewardship.
- Economic Contribution: Supporting local suppliers, contractors, and businesses to stimulate regional growth.

Through these measures, Helium One seeks to ensure that the Southern Rukwa Project not only contributes to global energy security but also drives sustainable development within Tanzania.

CEO Statement
Helium One CEO commented:
"Our Southern Rukwa Project is a game-changing resource, not only for Tanzania but for the global helium market. With some of the highest in-situ helium concentrations ever recorded, this project has the potential to become a secure, long-term supplier to industries that rely on helium for critical technologies. At the same time, we are deeply committed to Tanzania, ensuring that our operations generate lasting benefits through job creation, skills development, and community investment. Southern Rukwa is more than a resource project – it is a cornerstone for innovation and growth in a rapidly changing global economy."

Next Steps
In the coming months, Helium One intends to:

- Commence additional appraisal drilling to confirm reservoir potential and flow rates.
- Publish updated exploration results and progress toward a maiden resource estimate.
- Advance feasibility studies to determine commercial production pathways.
- Engage with potential off-take partners in the medical, technology, and energy sectors.

Expand community engagement initiatives across the Rukwa region.
These activities will position Helium One to rapidly progress toward production, securing its role as a pioneer in Africa's helium industry.

About Helium One Global Ltd.
Helium One Global Ltd. (AIM: HE1) is an exploration and development company focused on primary helium deposits in Tanzania. With a portfolio of licenses across the Rukwa, Eyasi, and Balangida basins, Helium One is advancing projects with the potential to supply high-grade helium to global markets. The company is committed to sustainable operations, community development, and building Tanzania's role as a reliable partner in critical resource supply.

Kenya's Strategic Mineral Future Strengthened by Migori Gold and Mrima Hill Rare Earth Projects

Nairobi, Kenya – 08/09/2025 – Kenya's mining sector is entering a transformative phase with two landmark projects: the Migori Gold Project in Migori County and the Mrima Hill Rare Earth Project in Kwale County. Together, these ventures position Kenya as a rising player in both the global precious metals market and the critical minerals supply chain, which is vital for the clean energy transition and high-tech industries.

Migori Gold Project – Unlocking Precious Metals in Western Kenya
Located in the historically significant Lake Victoria Gold Belt, the Migori Gold Project has long been regarded as one of Kenya's most promising gold exploration assets. Preliminary drilling and exploration programs have confirmed substantial gold resources, with estimates suggesting deposits amounting to over 1.2 million ounces of gold.

The project is managed by Red Rock Resources which has invested millions of dollars into advanced geological surveys, community engagement, and the establishment of exploration infrastructure. Early feasibility studies suggest that the project could support both open-pit and underground mining, enabling long-term production with significant economic impact.

"The Migori Gold Project is a milestone for Kenya's mineral sector. With the potential to be among the country's largest gold mines, it will contribute meaningfully to national revenue and establish Western Kenya as a hub for mining excellence," said [Company CEO's Red Rock Resources, CEO of Red Rock Resources.

Mrima Hill Rare Earth Project – Powering the Green Economy
In the coastal county of Kwale, the Mrima Hill Rare Earth Project is poised to become one of Africa's most strategic rare earth mineral deposits. Rare earth elements (REEs) are critical for producing wind turbines, electric vehicles, advanced batteries, and electronics. With the global demand for clean energy technologies surging, the project has garnered significant international attention.

Independent studies have identified over 30 million tonnes of rare earth-rich ore at Mrima Hill, ranking it among the most important REE projects outside of China. The project is expected to produce key elements such as neodymium, praseodymium, and dysprosium, all of which are essential in manufacturing permanent magnets for renewable energy technologies.

"Mrima Hill represents an opportunity for Kenya to become a key supplier in the global transition to clean energy. Rare earths are the oil of the future, and Kenya is well-positioned to play a major role in this strategic industry," remarked Mining Minister, Cabinet Secretary for Mining, Blue Economy, and Maritime Affairs.

Economic Impact and Job Creation
Together, the Migori Gold and Mrima Hill Rare Earth projects are expected to contribute significantly to Kenya's economic development:
Employment Creation: Over 3,500 direct jobs and thousands of indirect jobs are anticipated across both projects during exploration, construction, and operational phases.
Revenue Generation: Royalties, taxes, and export earnings from gold and rare earths will strengthen Kenya's fiscal base.
Local Procurement: Project developers have committed to sourcing goods and services locally wherever possible, benefiting small businesses and suppliers in Migori, Kwale, and beyond.
Infrastructure Development: Roads, energy connections, and water systems built for the projects will also serve local communities.

Community Engagement and Social Responsibility
Both projects emphasize the importance of community participation and benefit-sharing. Extensive consultations have been held with local leaders, community-based organizations, and residents to ensure that the projects align with local development priorities.
Key initiatives include:

- Education: Scholarships, school upgrades, and vocational training programs to equip local youth with employable skills.
- Healthcare: Partnerships with county governments to improve medical facilities and mobile health outreach services.
- Water Access: Construction of boreholes and water infrastructure to support both mining activities and local community needs.
- Livelihood Diversification: Programs to promote agriculture, fisheries, and entrepreneurship, reducing reliance on mining jobs alone.

"We want to ensure that communities see tangible improvements in their lives. Our legacy should not just be measured in ounces of gold or tonnes of rare earths but in the upliftment of local families and sustainable development," said Community Relations Manager of Red Rock Resources.

Environmental Stewardship
Recognizing the ecological sensitivity of both Migori and Kwale regions, robust environmental safeguards are being integrated into project planning.
Environmental and Social Impact Assessments (ESIAs) have been undertaken, with strong adherence to the National Environment Management Authority (NEMA) guidelines and international best practices.
Land Rehabilitation: Progressive reclamation of mined areas to restore vegetation and support biodiversity.

Water Management: Closed-loop water recycling to reduce wastage and prevent contamination.

Renewable Power: Exploring solar and wind power integration, especially at Mrima Hill, to reduce carbon emissions.

Community Monitoring: Establishing independent community-based monitoring teams to ensure transparency in environmental compliance.

Strategic Importance to Kenya and Beyond
The dual development of Migori Gold and Mrima Hill Rare Earths is more than a national milestone—it carries regional and global significance.

For Kenya: These projects diversify the economy, reduce reliance on agriculture and tourism, and strengthen the country's profile as an investment destination.

For Africa: They position Kenya as part of the continent's broader push to capture more value from its mineral resources, aligning with the African Union's Africa Mining Vision.

For the World: Rare earths from Mrima Hill will contribute to global supply chains for renewable energy, while Migori gold will support demand for precious metals in financial markets and industrial use.

Looking Ahead
Both projects are advancing toward critical milestones. The Migori Gold Project is preparing for definitive feasibility studies and securing development financing, while Mrima Hill Rare Earth Project is moving through permitting and technical optimization phases. Full-scale production for both is anticipated within the next five years, subject to regulatory approvals.

"This is a historic opportunity for Kenya to take its rightful place on the global mining map. Through responsible partnerships, transparency, and a focus on sustainability, we can ensure these projects deliver shared prosperity," said, Governor of Kwale County.

About Red Rock Resources
Red Rock Resources is a leading exploration and mining company focused on unlocking Africa's mineral potential. With operations spanning gold, base metals, and critical minerals, the company is committed to sustainable mining practices, community empowerment, and creating value for shareholders, host governments, and local communities.

Tata Chemicals Magadi Announces Expansion of Lake Magadi Soda Ash Operations to Meet Growing Global Demand

Magadi, Kajiado County, Kenya – Tata Chemicals Magadi Ltd., Africa's largest producer of natural soda ash, is pleased to announce a significant expansion of its operations at Lake Magadi, Kenya. The expansion project aims to increase production capacity, modernize facilities, and enhance sustainability practices to meet rising global demand for soda ash, a critical raw material for glass, detergents, and industrial chemicals.

Strategic Expansion to Serve Global Markets
The expansion project represents a major milestone in Tata Chemicals Magadi's long history of operations in Kenya, dating back over a century. By investing in advanced technology and infrastructure upgrades, the company plans to increase soda ash production capacity by an estimated 30–40% over the next three years.

This investment responds to robust demand growth in both regional and international markets, driven by the construction, packaging, and renewable energy industries. Soda ash is essential in the manufacture of glass, including solar panels and energy-efficient windows, which are seeing record demand as economies transition toward greener technologies.

“The expansion of our Lake Magadi operations will ensure that Tata Chemicals Magadi continues to play a leading role in global soda ash supply chains,” said CEO, Managing Director of Tata Chemicals Magadi. “Our project not only strengthens Kenya's position as a global exporter of natural soda ash but also reinforces our commitment to delivering sustainable growth.”

Enhancing Sustainability at Lake Magadi
The expansion is being designed with a strong focus on environmental stewardship and community partnership. Key initiatives include:
Water Stewardship: Implementing advanced brine management systems to ensure efficient use of Lake Magadi's natural resources while protecting the ecosystem.

Clean Energy Integration: Exploring the integration of solar power into operations to reduce carbon emissions and lower reliance on fossil fuels.
Land Rehabilitation: Commitment to restoring landscapes affected by past mining activity, preserving biodiversity in the Magadi region.
Sustainable Supply Chain: Strengthening logistics and transportation infrastructure to reduce environmental impact while improving efficiency.
These measures reflect Tata Chemicals' global commitment to aligning its operations with the United Nations Sustainable Development Goals (SDGs), particularly those related to climate action, clean energy, and responsible production.

Economic and Social Benefits for Kenya
Beyond production increases, the expansion project is expected to deliver significant socio-economic benefits:

- Job Creation: Hundreds of direct and indirect employment opportunities during construction and ongoing operations.
- Skills Development: Training programs for local communities, with a focus on youth and women's empowerment.
- Community Investment: Continued support for education, healthcare, and infrastructure in Kajiado County, where Tata Chemicals Magadi has been a longstanding development partner.
- Export Growth: Strengthening Kenya's balance of trade by expanding soda ash exports to global markets, particularly Asia, Europe, and the Middle East.

“This project reaffirms our commitment to the people of Kenya,” said [Insert CSR Director/Community Relations Head Name]. “We are proud to be not only a major industrial player but also a community partner, investing in livelihoods, education, and health initiatives that create long-term shared value.”

A Legacy of Leadership in Soda Ash
Tata Chemicals Magadi is part of Tata Chemicals Limited, a global leader in natural soda ash production. The Magadi operation, located 120 kilometers southwest of Nairobi, is the only producer of soda ash in Africa and a key supplier to global industries.

The expansion of Lake Magadi operations reinforces the Tata Group's commitment to Africa and to sustainable industrial development. It builds on more than 100 years of soda ash production at Magadi, combining deep local roots with world-class operational excellence.

Outlook
Construction of the expansion project is expected to commence in this Year], with phased completion targeted for two years. Once fully operational, Tata Chemicals Magadi anticipates contributing significantly to global soda ash supply while enhancing Kenya's reputation as a strategic source of high-quality, natural soda ash.

About Tata Chemicals Magadi
Tata Chemicals Magadi Ltd. is Africa's largest soda ash producer and a subsidiary of Tata Chemicals Limited, part of the global Tata Group. Located on Lake Magadi in Kenya, the company mines and refines natural soda ash for export to international markets. In addition to industrial leadership, Tata Chemicals Magadi is committed to community development and environmental stewardship, investing in programs that support education, healthcare, infrastructure, and sustainability in Kenya.

Revitalizing Kenya's Mining Industry: The Return of the Kerio Valley Fluorspar Project

Nairobi, Kenya – 08/09/2025 – Kenya's mining sector is poised for renewed growth as the Kerio Valley Fluorspar Project prepares to restart operations. Located in Elgeyo-Marakwet County, the project has long been recognized as one of East Africa's most significant fluorspar deposits. With global demand for industrial minerals surging, the revival of this project is set to strengthen Kenya's position as a strategic supplier while driving regional economic development.

A Legacy Reborn
The Kerio Valley Fluorspar Mine was first developed in the 1970s and went on to become a cornerstone of Kenya's mineral exports for decades. At its peak, the project produced over 120,000 tonnes of fluorspar annually, supplying markets in Europe, North America, and Asia. However, the mine was mothballed in 2016 due to declining global prices and operational challenges.

Now, under the leadership of Kenyan government, the project is being revitalized through fresh investment, advanced technology, and a renewed focus on sustainable practices. Exploration studies have confirmed the existence of significant reserves—estimated at over 5 million tonnes of high-grade fluorspar—ensuring a strong foundation for long-term production.

“The revival of the Kerio Valley Fluorspar Project represents not just a return to mining, but a new chapter of innovation, sustainability, and shared prosperity. We are committed to building on this legacy and delivering lasting benefits to Kenya and its people,” said CEO/Managing Director, CEO of Kerio Valley Fluorspar.

Why Fluorspar Matters
Fluorspar, also known as fluorite, is a critical industrial mineral used in a wide range of applications, including:

- Steelmaking – as a flux to remove impurities.
- Chemicals – as a key raw material in hydrofluoric acid production.
- Aluminum smelting – to reduce energy consumption.
- Renewables and electronics – in advanced batteries, solar panels, and refrigerants.

With rising demand in clean technologies, particularly in Asia and Europe, the timing of the Kerio Valley revival could not be better. Industry forecasts project a steady growth rate of 4–5% annually in fluorspar consumption over the next decade.

Economic and Social Benefits
The Kerio Valley Fluorspar Project is expected to deliver wide-ranging benefits at the local, regional, and national levels.
Key impacts include:

- Employment Creation: Over 1,500 direct jobs will be created during construction and operational phases, with thousands more supported through indirect and induced employment.
-

- Revenue Contribution: Export earnings and royalties are projected to add billions of shillings to the national economy annually.
- Infrastructure Upgrades: Roads, electricity, and water systems built for the project will enhance connectivity in Elgeyo-Marakwet County.
- Local Procurement: The project is committed to sourcing at least 60% of goods and services locally, empowering Kenyan businesses.

"This project will be a game-changer for our people. Beyond jobs, it will improve infrastructure, create business opportunities, and contribute to the county's long-term development," said, Governor of Elgeyo-Marakwet County.

Community Engagement and Resettlement
The original closure of the fluorspar mine left unresolved issues around community displacement and compensation. Learning from the past, the new project developers have placed community engagement at the heart of their strategy.

Compensation: Plans are underway to finalize compensation for households previously affected by resettlement.

Education and Training: Scholarships, apprenticeships, and technical training programs will equip local youth with skills for mining and beyond.
Health and Social Programs: Collaborations with county hospitals will strengthen healthcare delivery, including mobile clinics for remote villages.
Sustainable Livelihoods: Initiatives to support agriculture, livestock, and entrepreneurship will ensure communities thrive beyond the lifespan of the mine.

"We believe in mining with a human face. Communities are not just stakeholders—they are partners in this journey," added Community Relations Manager, Kerio Valley Fluorspar.

Environmental Stewardship
Mining in the 21st century must be environmentally responsible, and the Kerio Valley Fluorspar Project is no exception. The company has committed to rigorous Environmental and Social Impact Assessments (ESIAs) in compliance with both NEMA regulations and international best practices.
Key measures include:

- Rehabilitation: Progressive land reclamation, ensuring mined areas are restored for agriculture and forestry.
- Water Management: Closed-loop recycling systems to minimize freshwater use.
- Renewable Energy Integration: Exploring solar and hydropower sources to reduce the project's carbon footprint.
- Biodiversity Conservation: Collaborating with conservation groups to protect local flora and fauna in the Kerio Valley ecosystem.

Strategic Importance for Kenya
The return of the Kerio Valley Fluorspar Project aligns with Kenya's Vision 2030 goals to diversify the economy and strengthen the mining sector's contribution to GDP. It also positions Kenya as a reliable supplier of industrial minerals in the region and beyond.

Regional Leadership: With Tanzania and South Africa dominating mineral exports in East and Southern Africa, Kenya's re-entry into the fluorspar market enhances regional competitiveness.

Global Supply Chain Role: By meeting rising international demand, Kenya can capture greater value in global supply chains while reducing dependence on imports for manufacturing industries.

Investor Confidence: The project demonstrates Kenya's ability to attract large-scale mining investments, paving the way for future ventures in gold, rare earths, and other critical minerals.

Next Steps
The project is currently moving through its feasibility and permitting phases, with construction slated to begin in the next 18–24 months. Production is expected to ramp up to full capacity within three years, subject to regulatory approvals and community agreements.

"The fluorspar revival is about more than mining—it's about hope, opportunity, and positioning Kenya for a sustainable future. We invite stakeholders at every level to walk this journey with us," emphasized Mining Cabinet Secretary, Ministry of Mining, Blue Economy and Maritime Affairs.

About Kerio Valley Fluorspar
Kerio Valley Fluorspar is a forward-looking mining company dedicated to unlocking Africa's mineral potential. With a strong commitment to sustainability, community development, and operational excellence, the company seeks to deliver value for stakeholders while respecting people and the planet.

Naudesbank Colliery Set to Redefine Responsible Coal Mining in Mpumalanga

Mpumalanga, South Africa – 08/09/2025 – The South African coal sector is poised for a major milestone with the launch of the Naudesbank Colliery, a state-of-the-art coal mining project in Mpumalanga Province. As one of the latest entrants into South Africa's dynamic mining landscape, the colliery is designed to deliver high-quality thermal coal for both domestic and international markets, while prioritizing sustainability, innovation, and community impact.

A Strategic Addition to South Africa's Mining Portfolio
Coal has long been the backbone of South Africa's energy supply, fueling more than 80% of the nation's electricity generation and serving as a vital export commodity. The Naudesbank Colliery is strategically located within the coal-rich Highveld region, ensuring easy access to Eskom's power stations as well as rail infrastructure for export through Richards Bay Coal Terminal (RBCT).

Initial resource estimates indicate the colliery holds reserves of over 150 million tonnes of thermal coal, with production capacity expected to ramp up to 3–4 million tonnes annually over the next five years. The mine is expected to operate for more than two decades, providing long-term stability for both the company and the surrounding communities.

"Naudesbank Colliery is not just about coal—it's about creating a model for modern, responsible mining. Our mission is to meet energy needs while upholding environmental stewardship and empowering communities," said CEO/Managing Director, CEO of Seriti Resources.

Economic Benefits and Job Creation
The project is expected to have a significant economic impact at local, provincial, and national levels.

Employment: More than 1,800 direct jobs will be created during construction and operational phases, alongside thousands of indirect opportunities in logistics, services, and small business supply chains.

Revenue Generation: The colliery is projected to contribute billions of rands annually to South Africa's economy through royalties, taxes, and export earnings.

Local Procurement: The company has committed to sourcing at least 65% of goods and services locally, creating opportunities for Mpumalanga-based suppliers and SMEs.

Infrastructure Development: Investment in roads, power connections, and water systems will enhance both the mine and the surrounding communities.

"The launch of Naudesbank Colliery will bring inclusive growth to Mpumalanga. It is an opportunity for us to uplift local livelihoods while contributing to South

Africa's broader development goals," said Premier of Mpumalanga, Premier of Mpumalanga Province.

Balancing Energy Needs and Sustainability
While South Africa transitions towards renewable energy, coal remains critical for ensuring energy security in the near term. The Naudesbank Colliery has been designed to bridge this gap responsibly, implementing modern technologies to minimize its environmental footprint.

Low-Emission Mining Equipment: Utilization of fuel-efficient, low-emission vehicles and machinery.

Water Management: Advanced treatment plants will recycle mine water, reducing waste discharge and protecting local rivers.

Land Rehabilitation: A comprehensive plan for progressive rehabilitation of mined land, restoring it for agricultural and ecological use.

Renewable Integration: The company is exploring solar power to supplement the mine's energy requirements, reducing reliance on coal-based electricity for its own operations.

"Coal mining must evolve. Our commitment is to operate transparently, reduce environmental impacts, and support South Africa's just energy transition," said Head of Sustainability, Head of Sustainability at Seriti Resources.

Community-Centered Development
The Naudesbank Colliery is prioritizing inclusive community development, recognizing that mining must leave a legacy of positive change beyond extraction.

Key community initiatives include:
Education: Scholarships for local learners, partnerships with schools, and the establishment of a technical training center for mining-related skills.
Healthcare: Upgrades to clinics and health programs, including mobile health services and occupational health awareness campaigns.

Enterprise Development: Support for local entrepreneurs through training, access to funding, and inclusion in the mine's procurement value chain.
Housing and Infrastructure: Collaborative programs with municipalities to improve housing, water access, and sanitation.

"The success of Naudesbank Colliery will be measured not only by tonnes of coal mined but by the lives we touch and transform. We are deeply invested in building trust and opportunity for communities around us," added Community Relations Manager.

Compliance and Governance
The project has undergone a comprehensive Environmental and Social Impact Assessment (ESIA), meeting the stringent requirements of the Department of Mineral Resources and Energy (DMRE) and the National Environmental Management Act (NEMA).

Furthermore, the colliery is aligned with the Mining Charter III, ensuring that Black Economic Empowerment (BEE) partners and local shareholders have a significant stake in the project.

Transparency and accountability will also be maintained through quarterly community forums and independent monitoring mechanisms, allowing stakeholders to review progress on commitments.

Strategic Importance for South Africa
The Naudesbank Colliery is launching at a critical moment for South Africa's energy and economic trajectory:
Energy Security: With Eskom still reliant on coal for power generation, the project ensures stable and reliable supply.
Export Potential: Access to global markets via RBCT positions South Africa as a continued leader in thermal coal exports, particularly to Asia.
Economic Diversification: By investing in local industries and services, the project strengthens Mpumalanga's economy beyond coal mining.
Just Energy Transition: By integrating renewables and community resilience programs, Naudesbank Colliery exemplifies how coal projects can align with long-term sustainability goals.

Project Timeline and Next Steps
The Naudesbank Colliery is currently in the advanced stages of development, with initial construction already underway. The project's key milestones include:
2025 – Completion of infrastructure and processing plant.
2026 – First coal production and domestic supply to Eskom.
2027 – Ramp-up to full production capacity with export shipments through RBCT.

"This project will deliver coal in a responsible and efficient manner, strengthening South Africa's economy while preparing for a diversified energy future," said Mining Minister, Minister of Mineral Resources and Energy.

About Seriti Resources
Seriti Resources is a South African mining company dedicated to sustainable resource development. With operations across coal, base metals, and renewable energy integration, the company strives to balance economic growth with environmental and social responsibility.

Marula Mining PLC Unveils Inaugural Production at Kilifi Manganese Processing Plant

A Milestone in East African Battery Metals Development

Nairobi, Kenya – 08/09/2025 – Marula Mining PLC (AQSE: MARU; A2X: MAR), an African-focused mining and development company, is proud to announce the commissioning and imminent launch of operations at its Kilifi Manganese Processing Plant, located in the Tezo area of Kilifi County, Kenya. This marks a significant stride in the company's strategic vision of establishing a robust battery metals portfolio across East Africa.

Strategic Asset Acquisition & Operational Control

Initially acquiring an 80% stake in the Kilifi Plant through its subsidiary, Muchai Mining and Processing Kilifi Pty Limited, Marula has now secured full 100% ownership by finalizing an acquisition agreement with the remaining minority stakeholders. The transaction—comprising a cash payment and up to 12 million ordinary shares—grants Marula total strategic and commercial control over the asset.

High-Grade Manganese & Supply Security

Located approximately 60 km from Mombasa port, the Kilifi Plant benefits from prime infrastructure and logistical access. Assay tests conducted in Nairobi revealed average manganese grades of 61.95%, with individual samples ranging from 44.13% to 71.01%—among the highest in the region.

Under binding ore supply agreements, the plant is set to handle up to 20,000 tonnes of ore per month, with staged deliveries ramping from an initial 10,000 tonnes within short order.

Plant Upgrades & Commissioning

Throughout Q1 2025, extensive upgrades were executed on the plant's key components—from trommel scrubber screen modifications to enhanced crushing zones, feed hoppers, and refined stockpile infrastructure. These modifications were delivered by Nairobi-based Zegatron Engineering Solutions (ZES), who also continue to guide optimisation and commissioning processes.

As of 30 April 2025, pre-commissioning was complete, and the plant was undergoing dry commissioning and pre-operational testing. Marula anticipates initiating wet commissioning by mid-May, enabling the processing of manganese ore through the full system.

Ramp-Up to Commercial Production

First manganese sales are scheduled for May 2025, marking the transition from construction to cash-generating operations.

Financial Outlook & 5-Year Budget Approved

In March 2025, Marula's Board approved a comprehensive 5-Year Budget (2025–2030) for the Kilifi Plant and related operations.

Metric	Value (USD, 100% Project Basis)
Projected Manganese Sales	1.07 million tonnes
Gross Revenue	$182.5 million
Pre-Tax Operating Cashflow	$63.5 million
Post-Tax Cashflow (after 30% tax)	$43.4 million
NPV @ 10% (Pre-Tax)	$48.3 million
IRR (Pre-Tax)	> 100% p.a.

These projections are informed by secure ore supply contracts and a five-year off-take agreement with Baosteel Resources South Africa, paired with export logistics arranged through Scan Global Logistics Kenya.

Marula is committed to sourcing 100% of casual and part-time staff from local Kilifi communities, with over 95% of existing employees already locally based.

Leadership Perspective

"Completion of the plant upgrades and commencement of commissioning represent a pivotal moment for Marula and for Kenya's entry into the critical minerals value chain," said Jason Brewer, CEO, Marula Mining. "With manganese market dynamics and strategic offtake agreements aligned, Kilifi is primed to serve as a cornerstone for Marula's regional expansion."

He also noted the benefit of full ownership: "Securing 100% ownership enhances Marula's flexibility and operational agility as we move into first production, optimisations, and future expansion."

Community & Economic Impact

Beyond commercial gains, the Kilifi Plant is a catalyst for local economic development—creating jobs, building technical capacity, and embedding economic value in Kilifi County. Operations are structured to reinforce Marula's reputation as a responsible operator, delivering both economic uplift and development dividends.

Outlook & Strategic Growth

With processing operations set to commence and the five-year fiscal framework in place, Marula is positioning the Kilifi Plant as a key revenue-generating and scale-ready asset. Future growth opportunities include expanding ore feed sources and increasing monthly output beyond the current 20,000 tpm design. Proceeds from operations are earmarked for further expansions and new mine development across the battery minerals portfolio in East Africa.

**** About Marula Mining PLC****

Marula Mining is a multi-commodity critical minerals explorer and producer focused on projects with rapid development potential in Africa. With strategic interests in Kenya and Tanzania, Marula aims to deliver production, profitability, and stakeholder value through disciplined investment and operational execution.

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Kimwarer Fluorspar: Multibillion-Shilling Revival Set to Transform the Kerio Valley Economy

KSh 4.8 billion investment breathes new life into Kenya's flagship fluorspar operation, creating jobs, boosting exports, and empowering communities in Elgeyo-Marakwet County

Nairobi / Iten, Elgeyo-Marakwet – August 14, 2025:
Kimwarer Fluorspar is proud to announce the official revival of its mining and processing operations in the Kerio Valley, following a KSh 4.8 billion investment package designed to restore production, modernize infrastructure, and deliver transformative community benefits.

This milestone—achieved through close collaboration with the Government of Kenya and the County Government of Elgeyo-Marakwet—marks the return of one of Kenya's most significant mineral projects to full operational status. The initiative will position Kenya as a competitive supplier of high-quality fluorspar for global markets while fostering inclusive socio-economic growth in the region.

"This is not just the revival of a mine—it is the revival of livelihoods, opportunity, and regional pride," said a Kimwarer Fluorspar spokesperson. "We are committed to ensuring the Kerio Valley community is the first to benefit from this renewed activity, and that operations meet the highest standards of safety, transparency, and environmental care."

Strategic Importance for Kenya's Mining Sector
Fluorspar—used in steelmaking, aluminum production, refrigeration, and emerging clean-energy technologies—is a critical industrial mineral with growing demand globally. Kenya's Kimwarer deposit has historically supplied metallurgical and acid-grade fluorspar to customers across Europe, Asia, and Africa.

Following years of dormancy, the Government initiated a competitive process to identify a strategic partner capable of delivering a sustainable, responsible, and commercially viable restart. Kimwarer Fluorspar's revitalization now stands as a flagship project in Kenya's broader mining-sector resurgence, in line with the country's goal of increasing mining's contribution to GDP from less than 1% to 10% over the next decade.

Key Deliverables of the Revival
1. Modernized Processing and Export Reliability
The investment will refurbish and upgrade the processing plant—improving flotation circuits, materials-handling systems, and concentrator performance. Logistics will be strengthened to ensure cost-efficient haulage from Kimwarer to the Port of Mombasa, enabling dependable export scheduling to international customers.
2. Job Creation and Skills Development
Hundreds of direct and indirect jobs will be created across mining operations, plant maintenance, laboratory testing, transport, and site services. A structured apprenticeship and training program will offer young people from the Kerio Valley hands-on technical experience, with opportunities for upskilling in mining, geology, metallurgy, and environmental management.
3. Transparent Benefit Sharing
In line with Kenya's Mining Act, 2016, royalties will be shared between the National Government, County Government, and local community. Annual public reports will detail royalty disbursements and funded development projects to ensure accountability and trust.
4. Local Enterprise Empowerment
The company will prioritize procurement from small and medium enterprises (SMEs) in Elgeyo-Marakwet, with emphasis on youth- and women-led businesses. Capacity-building support will help local suppliers meet industry safety and quality requirements.
5. Responsible Mining and Environmental Stewardship
Best-practice environmental management plans will be implemented, including dust suppression, water conservation, progressive land rehabilitation, and biodiversity preservation. Quarterly Environmental, Social, and Governance (ESG) reports will be shared with stakeholders.

Community-Centered Approach
The revival places the community at the heart of decision-making. Continuous engagement with local leaders, elders, youth groups, and civil society ensures that development plans align with community needs.

Compensation and Resettlement
Kimwarer Fluorspar supports ongoing government-led processes to finalize compensation for households historically affected by mining operations. The company has pledged to participate constructively in transparent and verifiable grievance-resolution mechanisms.

Flagship Social Investment Programs (First 18 Months)
Education & Skills – Scholarships, bursaries, and technical training for students from host communities.
Healthcare – Support for local health facilities, mobile medical outreach, and occupational health services.
Sustainable Livelihoods – Climate-smart agriculture, beekeeping, and horticulture cooperatives to diversify incomes.

Three-Phase Restart Plan
Phase 1: Compliance & Re-Commissioning (Months 0–6)
Engineering audits, environmental plan updates, plant equipment testing, recruitment of core teams, and procurement of critical spares. Road assessments and transport logistics will also be finalized.
Phase 2: Ramp-Up (Months 6–18)
Mining faces will be reopened in line with the new mine plan. Production will gradually scale up, metallurgical performance will be stabilized, and export contracts renewed with long-term customers.
Phase 3: Optimization & Value Addition (Months 18+)
Focus on operational efficiency, energy savings, water recycling, and potential in-country processing for higher-value fluorspar products.

Governance, Compliance, and Transparency
Kimwarer Fluorspar's operations will fully comply with Kenyan mining, labor, and environmental laws. The company is committed to:
Annual public disclosure of royalty payments.

Publishing an annual Sustainability Report.
Maintaining open community feedback channels via hotlines, suggestion boxes, and WhatsApp.
Holding biannual town-hall meetings in partnership with county leadership.
"Our goal is to be a model of responsible mining—competitive in the market, transparent in governance, and deeply rooted in community partnership," the spokesperson added.

Global Market Context
Fluorspar demand is growing due to its critical role in industrial processes and clean-energy technologies. Kenya's return to the market will offer buyers a reliable, strategically located source at a time when supply diversification is increasingly important.

Safety and Environmental Care
Safety remains the top priority, with initiatives including:
Mandatory safety inductions and refresher training.
Visible leadership engagement on safety culture.
Behavior-based safety observations and reporting.
Partnership with county disaster-response teams for emergency preparedness.

Environmental measures will include:
Closed-loop water recycling systems.
Progressive mine rehabilitation with indigenous vegetation.
Dust and noise control measures.
Quarterly environmental monitoring with public reporting.

Working Together for Shared Prosperity
The revival is the result of strong partnerships between national and county governments, technical experts, community leaders, and development partners. All parties remain committed to ensuring that the Kerio Valley community benefits first and most from the project's success.

About Kimwarer Fluorspar
Kimwarer Fluorspar operates the fluorspar mine and processing plant in the Kerio Valley, producing metallurgical and acid-grade fluorspar for regional and international markets. The company is committed to responsible mining, transparent value sharing, and sustainable community partnerships.

Kilimapesa Gold Reawakens: Caracal Gold Confirms Strategic Restart and Recapitalisation to Power Kenya's Next Gold Growth Phase

Narok County, Kenya – August 14, 2025 – Caracal Gold Plc ("Caracal" or the "Company"), the East Africa–focused gold producer and developer, today announces the formal restart of operations at the Kilimapesa Gold Mine in Narok County, alongside a comprehensive recapitalisation plan designed to deliver a disciplined ramp-up of production, expand exploration activity, and enhance long-term value for shareholders, employees, and the host community.

Located on the prolific Migori Greenstone Belt, Kilimapesa is Kenya's longest-operating commercial gold mine and remains a cornerstone of the country's formal gold sector. Holding a valid mining licence through 2036, the asset is underpinned by established processing infrastructure, a trained local workforce, and district-scale exploration potential.

Funding Secured – Foundations for a Strong Restart
The restart programme is backed by targeted, well-structured financing milestones that strengthen Caracal's balance sheet and enable a safe, sustainable return to operations.

October 2024: Caracal secured US$500,000 under a financing agreement, supplemented by a US$100,000 CEO loan, directed toward critical site readiness and corporate activities.

July 2025: The Company closed a US$1 million convertible loan facility, supported by existing financiers and regional investment partners. This facility provides working capital for ramp-up, process optimisation, and near-term exploration.

These funding steps, combined with prior investments in heap leach infrastructure, position Kilimapesa for efficient production growth. The combination of heap leach capability and the existing milling/CIL circuit gives Caracal processing flexibility, reduces bottlenecks, and supports a phased production strategy.

Four Pillars Driving the Restart
Caracal's restart plan rests on four strategic pillars, ensuring operational resilience and long-term growth:

- Operational Readiness & Safety
- Comprehensive maintenance, inspections, and staged recommissioning of mining and processing facilities.
- Enhanced safety protocols, workforce refresher training, and updated operating procedures to align with best-in-class mining standards.
- Processing Flexibility & Cost Efficiency
- Dual-path processing via heap leach and milling/CIL circuits to capture low-cost ounces while maintaining metallurgical flexibility.
- Smooth ramp-up curve supported by optimal ore blending and tailored mine sequencing.
- Exploration & Resource Growth
- Targeted drilling campaigns to convert known mineralisation into mineable resources.
- Step-out exploration along the Migori Belt to extend mine life and build a stronger reserve base.
- Governance, Transparency & Market Confidence
- Strengthened Board oversight, enhanced corporate reporting, and completion of outstanding audit requirements for Kilimapesa.
- Clear operational milestones to build investor confidence and demonstrate disciplined execution.

Executive Leadership Perspectives
Simon Grant-Rennick, Chairman, Caracal Gold Plc:
"Kilimapesa's restart marks a pivotal moment—not just for Caracal, but for Kenya's gold industry. We are delivering a focused, well-capitalised plan that balances responsible operations with the ambition to grow. Our strategy is deliberately measured, ensuring operational excellence and strong returns for all stakeholders."

Robbie McCrae, Chief Executive Officer:
"This mine is a rare asset in East Africa—established infrastructure, a capable Kenyan workforce, and strong exploration potential. The integration of heap leach and CIL processing means we can unlock low-cost ounces while scaling production in a controlled manner. With our financing secured, the ramp-up is firmly on track."

Jason Brewer, Executive Director:
"Our recapitalisation is about building a resilient company. We are embedding transparency, enhancing governance, and prioritising long-term community partnerships. Every step we take is aligned with sustainable growth and operational discipline."

Community Partnerships and Environmental Stewardship
Caracal's approach to restarting Kilimapesa is anchored in shared prosperity with Narok County communities. Key initiatives include:
Local Employment: Prioritising Kenyan nationals across the workforce, with a commitment to training and career development.

Local Procurement: Sourcing from regional suppliers wherever possible to stimulate the county's economy.

Community Engagement: Regular consultations with community leaders, county government, and local businesses to align project development with local priorities.

Environmental stewardship is non-negotiable. Kilimapesa operates under a robust Environmental and Social Management Plan (ESMP), incorporating:
Tailings and heap leach management with rigorous monitoring and QA/QC controls.

Progressive rehabilitation to restore mined areas.
Water management systems to safeguard local resources.

Disciplined Ramp-Up Strategy
The phased restart ensures cost control, production stability, and operational safety:

- Mine Planning: Integrating updated geological models and grade-control data for precision scheduling.
- Processing Stability: Gradual throughput increases matched to metallurgical performance.
- Cost Management: Stringent procurement strategies to maintain lean, reliable operations.
- Exploration Catalysts: Near-mine drilling to expand the resource base while production ramps.
- This cautious yet confident approach mitigates operational risk while preserving upside potential.

Supporting Kenya's Mining Ambition
Kilimapesa's revival contributes directly to Kenya's national objectives:
Growing formal gold production and refining capacity.
Strengthening fiscal revenues from mining.
Developing local supply chains and technical skills.
Caracal's presence in Narok County is not only about mining gold—it's about building a resilient, inclusive mining ecosystem that endures beyond the life of the mine.

Looking Ahead
With the restart underway and recapitalisation secured, Caracal is positioned to:
Achieve stable production through 2025 and scale output in 2026.
Extend mine life through aggressive exploration and resource conversion.
Maintain a high standard of governance, transparency, and operational discipline.
Deliver lasting value to shareholders, employees, and local communities.

About Kilimapesa Gold Mine
Kilimapesa, located on the Migori Greenstone Belt, is a fully licensed gold mining operation with established milling/CIL and heap leach facilities.

With a licence valid until 2036, the mine offers substantial exploration potential and remains a flagship project for Caracal Gold in East Africa.

About Caracal Gold Plc
Caracal Gold Plc (LSE: GCAT) is an East Africa–focused gold producer and developer. Anchored by the Kilimapesa Gold Mine in Kenya, the Company is executing a disciplined restart and recapitalisation strategy, committed to sustainable mining, community engagement, and shareholder value creation.

Platinum Group Metals Advances Waterberg PGM Project, Setting Stage for Decades of Strategic Growth and National Value

Platinum Group Metals Ltd. (TSX: PTM; NYSE American: PLG), operator of the Waterberg Platinum Group Metals (PGM) Project, is delighted to announce the successful completion of a revised Definitive Feasibility Study (DFS) and significant strides in pre-construction and development preparations. Located in the northern limb of the Bushveld Complex, approximately 85 km north of Mokopane in Limpopo, this project marks one of South Africa's most compelling new PGM ventures—offering scale, sustainability, economic impact, and multi-generational benefit.

A Strategic Resource of Scale and Longevity
The Waterberg PGM Project stands out as a world-class, shallow, mechanized PGM deposit. The most recent DFS update reveals Proven and Probable Reserves of 246.2 million tonnes at an average grade of 2.96 g/t 4E, equivalent to 23.41 million ounces of 4E metal content—comprising platinum, palladium, rhodium, and gold.

The projected Life-of-Mine (LoM) spans an impressive 54 years, extending well beyond earlier estimates of 45 years. Average annual concentrate production is anticipated at approximately 353,200 ounces 4E, with peak output potentially reaching 432,950 ounces 4E.

Economic modelling indicates robust returns—with an after-tax Net Present Value (NPV) of R11.5 billion (approx. USD $569 million) and an Internal Rate of Return (IRR) of approximately 14–20%, depending on discount rates and prevailing pricing.

Methodical Design & Infrastructure Readiness
The Waterberg mine is designed as a fully mechanised, decline-access underground operation, featuring dual twin declines to access the orebody at a shallow depth of roughly 140 m, facilitating long-hole stoping and paste backfill. This method ensures high extraction efficiency while maintaining structural integrity and safety.

Key surface infrastructure includes upgraded roads, a 132 kV power line linked to Eskom's grid with capacity for 140 MVA, and water pipelines to supply mine operations. These components are designed to optimize cost and logistics ahead of the development phase.

Capital expenditure (CAPEX) dynamics in the 2024 DFS reflect both inflation and ZAR currency considerations. Peak CAPEX is estimated at USD $776 million, rising to USD $946 million when including an 8.5% contingency buffer.

Path to Construction and Early Progress
The Waterberg Joint Venture (JV)—comprising PTM (37.19% effective interest), Impala Platinum (14.86%), HJ Platinum (JOGMEC/Hanwa, 21.95%), and Black Economic Empowerment partner Mnombo Wethu Consultants (26%)—approved a R380 million (approx. USD $21 million) pre-construction readiness program.

This program aims to drive de-risking activities, including building initial road access, establishing water supply infrastructure, setting up essential site facilities, constructing a first-phase lodge for construction staff, and securing power connections—while aligning with South Africa's Social & Labour Plan.

As of mid-2025, further progress includes an additional R42 million (~USD $2.2 million) interim budget to support continued engineering and pre-build development, while also advancing a feasibility study for a smelter and base metals refinery (BMR) outside South Africa.

Concentrate Offtake and Beneficiation Strategy
Securing concentrate offtake remains a critical step before a definitive construction decision. PTM holds active discussions with South African smelters, including Implats, with Implats possessing a right of first refusal.

Internationally, PTM has signed a cooperation agreement with Ajlan & Bros Mining and Metals (Saudi Arabia) to explore the feasibility of establishing a PGM smelter and BMR. This scenario could reduce shipment volumes dramatically—from 130,000 t/y of concentrate to 8,000 t/y of converter matte—subject to securing government export permissions from South Africa.

Simultaneously, PTM continues to engage with authorities on local beneficiation options, reinforcing South Africa's value chain and industrial development objectives.

Job Creation, Economic Impact & Global Relevance
The Waterberg Project is expected to deliver substantial employment and socio-economic benefits. During construction (targeted to begin in December 2025), approximately 2,000 jobs are projected, transitioning into 1,425 permanent roles during steady-state operations.

Strategically and economically, Waterberg supports global decarbonization efforts by providing key PGM metals—platinum, palladium, rhodium, and gold—as well as copper and nickel byproducts that are critical to automotive emissions control, fuel cells, and battery technologies.

PTM is also exploring partnerships, such as with Anglo American Platinum and Florida International University via Lion Battery Technologies, to advance PGM use in lithium battery innovation.

Looking Ahead: Timeline & Vision
According to current DFS modeling, construction is expected to commence in December 2025, with first production slated for September 2029. The mine is projected to reach full production (“steady state”) by May 2032, with operations continuing through 2081.

Executive Commentary
“Waterberg offers remarkable scale, competitive costs, and generational longevity,” said Frank Hallam, President and CEO of Platinum Group Metals. “We are advancing with confidence—through strategic infrastructure execution, beneficiation discussions, and strong JV alignment—to deliver enduring value for our partners, local communities, and all South Africans.”

Project Highlights at a Glance
Life of Mine: 54 years (avg. 353,200 oz 4E/year; peak 432,950 oz/year)
Reserves: 246.2 million tonnes @ 2.96 g/t 4E (23.41 million ounces 4E)
Capital Investment: USD $946 million (including 8.5% contingency)
Mine Access: Shallow decline-access underground mine with paste backfill
Infrastructure: Road access, power (140 MVA), water pipelines, lodging
Offtake Strategy: Discussions ongoing; in parallel, international refinery pathways being evaluated
Employment Impact: 2,000 jobs during construction; 1,425 permanent operating jobs
Timeline: Construction starts Dec 2025; first production Sept 2029; full ramp-up by May 2032

About Platinum Group Metals Ltd.
Platinum Group Metals Ltd. is a Toronto & New York-listed mining development company focused on exploring and building the Waterberg PGM Project. Its diversified partnership structure, exploration track record since 2011, and DFS-driven project execution position it as a leading custodian of South Africa's PGM future.

Anglo American's Kumba Iron Ore Commits R11.2 Billion to Transformational UHDMS Upgrade at Sishen Mine

***Northern Cape, South Africa — September 8, 2025 — Kumba Iron Ore Limited, a leading producer of high-quality iron ore and a subsidiary of Anglo American plc, today announced a landmark investment of R11.2 billion in the deployment of Ultra-High Dense-Media Separation (UHDMS) technology at its flagship Sishen mine in the Northern Cape*.**

The UHDMS project represents one of the most significant technology upgrades in Kumba's history and marks a decisive step toward its "value over volume" strategy. By enhancing beneficiation capability, increasing premium product output, and extending the life of the Sishen operation to 2044, this investment reinforces Kumba's commitment to long-term sustainability, profitability, and alignment with the global transition to greener steelmaking.

Background and Project Scope

First conceptualized in 2019 and formally approved in two stages (R3.6 billion in 2021 and a further R7.6 billion in 2024), the UHDMS project has matured into a full-scale modular upgrade of Sishen's beneficiation facilities. The initiative will see the conversion of six out of eight coarse processing modules and five out of seven fines modules to UHDMS, significantly expanding Sishen's ability to recover and process lower-grade ore while enhancing yield and product quality.

The UHDMS rollout will follow a phased approach:

2025 — First module conversion scheduled to begin.
2026 — Major tie-in activities connecting new modules to the broader processing network.
2027–2028 — Sequential conversions of remaining modules and scaling to full capacity.
End-2028 — Full UHDMS operation, unlocking production benefits for the remaining life of mine.

By adopting a modular strategy, Kumba minimizes downtime, manages risk, and ensures consistent delivery of product to customers throughout the implementation period.

Technical and Operational Advantages

The UHDMS technology is designed to differentiate iron ore particles with far greater precision by leveraging ultra-dense media fluids to separate ore from waste. Compared to conventional dense-media separation, UHDMS allows processing of ore at lower

cut-off grades, meaning material previously considered uneconomic can now be profitably mined and beneficiated.

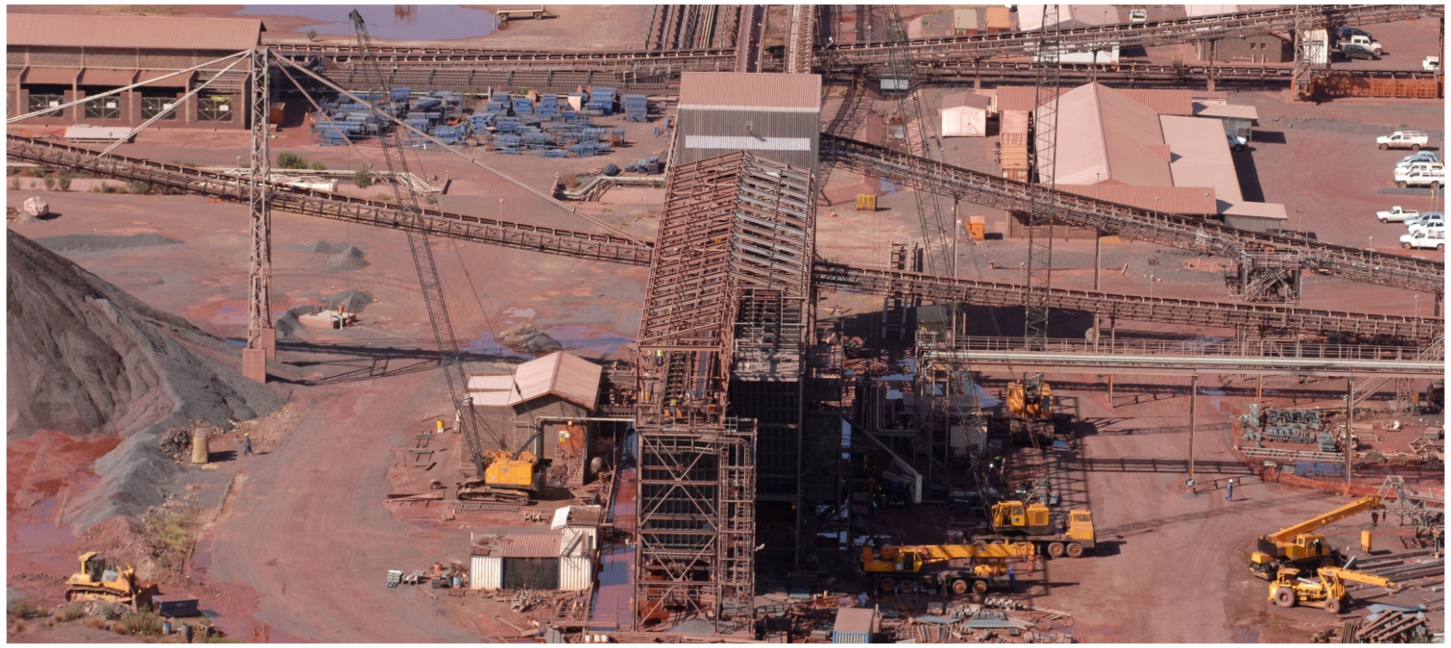
Key operational enhancements include:
Increased premium product output — Share of high-grade premium ore is expected to rise from ~18% today to ~55% post-UHDMS.
Improved product pricing — With more premium product available, Kumba anticipates an uplift in realized prices of US $2–3 per tonne, enhancing margins.

Reduced cut-off grade — Lowering from 48% Fe to 40% Fe enables the exploitation of ore bodies that would otherwise remain stranded.
Improved stripping ratio — From approximately 3.9 to 3.3, representing a significant decrease in waste movement.
Reduced waste mining — Equivalent to a saving of around 15 million tonnes per year, improving both costs and environmental efficiency.

These improvements are projected to deliver robust financial returns, with an internal rate of return (IRR) above 30% and a payback period of just three years once first production commences.

Strategic Significance
For Kumba and Anglo American, the UHDMS project is not merely a technology upgrade—it is a strategic enabler. As global steel markets increasingly prioritize high-grade, low-impurity iron ore to reduce carbon emissions during steelmaking, Kumba is positioning itself at the heart of this green-steel transition.

Mpumi Zikalala, Chief Executive Officer of Kumba Iron Ore, said:



“This investment reflects our determination to drive value over volume. With UHDMS, we will not only increase our share of premium ore but also support the decarbonization of steelmaking. By extending Sishen's life to 2044, we are safeguarding jobs, sustaining communities, and delivering long-term value to our shareholders.”

The project also strengthens Anglo American's broader FutureSmart Mining™ agenda, which integrates digitalization, precision mining, and sustainability into long-term operational planning.

Economic and Community Impact
Sishen mine has long been a cornerstone of the Northern Cape economy, employing thousands and providing indirect livelihoods for tens of thousands more. The UHDMS investment ensures the continuation of these contributions for nearly two additional decades.

Job Security: By extending mine life to 2044, UHDMS safeguards thousands of direct and indirect jobs.

Local Procurement: Significant portions of the R11.2 billion capex will flow through South African suppliers, fostering industrial growth.

Community Programs: The extension allows Kumba to continue funding education, healthcare, and infrastructure initiatives across Kathu, Kuruman, and surrounding areas.

Government leaders have welcomed the announcement. At a recent briefing, the Minister of Mineral Resources and Energy praised Kumba's commitment to sustaining mining communities and supporting South Africa's export revenue base through continued iron ore production.

Environmental and Sustainability Benefits
While UHDMS is primarily an economic and operational upgrade, its environmental implications are equally significant.

Reduced Waste Mining: By processing lower-grade ore and improving cut-off efficiency, UHDMS reduces waste movement by ~15 million tonnes annually.

Lower Carbon Intensity: Producing more premium ore aligns with the steel sector's need for higher-grade feedstock, which can cut blast furnace emissions by up to 20%.

Water and Energy Efficiency: The modular approach includes energy-efficient pumps and recycling systems designed to reduce environmental footprint.

Kumba has also committed to ongoing environmental rehabilitation, ensuring that mine expansion under UHDMS is accompanied by responsible land management.

Nolitha Fakude, Chair of Anglo American's Management Board in South Africa, added: “The UHDMS project demonstrates how technology can deliver sustainability at scale. By aligning with the global shift toward green steel, we are making Sishen a platform for both economic resilience and climate responsibility.”

Financial Outlook
The UHDMS project builds on Kumba's strong balance sheet and track record of disciplined capital allocation.

Capex: Total investment of R11.2 billion (US $600+ million).
Payback: Expected within three years of first module commissioning.
Margin Expansion: Premium product uplift expected to add US $2–3/t to realized prices.
Sustainability of Earnings: With mine life extended to 2044, UHDMS ensures long-term cash flow stability.

This financial strength enables Kumba to continue rewarding shareholders through dividends, while reinvesting in growth and sustainability initiatives.

Long-Term Outlook
Looking ahead, UHDMS will:
- Secure 19 additional years of production at Sishen.
- Position Kumba as a leading supplier of high-grade iron ore in global markets.
- Enable further downstream opportunities, such as exploring direct reduction (DR) iron ore feed, which supports hydrogen-based steelmaking.
- Enhance South Africa's standing as a reliable, sustainable source of critical raw materials.

Closing Statement
The Sishen UHDMS project is more than an upgrade—it is a bold commitment to the future. By marrying technology with sustainability, Kumba Iron Ore is ensuring that South Africa's largest iron ore mine remains competitive, responsible, and value-accretive for decades to come.

About Kumba Iron Ore
Kumba Iron Ore Limited, a member of the Anglo American group, is a leading supplier of high-quality iron ore to global steel markets.

Headquartered in Centurion, South Africa, Kumba operates primarily through its Sishen and Kolomela mines in the Northern Cape. With a strong focus on safety, sustainability, and innovation, Kumba plays a vital role in South Africa's economy and the transition to low-carbon steelmaking.

TGME Underground Gold Project to Deliver Long-Term Growth, Jobs, and Sustainable Development in South Africa

Pilgrim's Rest, Mpumalanga, South Africa – Theta Gold Mines Limited **(ASX: TGM | OTCQB: TGMGF)** is pleased to announce significant progress in the development of its flagship TGME Underground Gold Project, located in the heart of South Africa's historic Eastern Transvaal Goldfields. With robust feasibility results, strong gold market fundamentals, and a clear commitment to community development, the TGME Underground Project is poised to deliver sustainable value for shareholders, stakeholders, and local communities alike.

Unlocking Value from a Historic Goldfield

The Transvaal Gold Mining Estates (TGME) represents the birthplace of gold mining in South Africa, dating back to 1895. For over a century, Pilgrim's Rest and its surrounding mines contributed millions of ounces of gold that shaped the nation's economy. Today, advances in mining technology, favorable market conditions, and modern sustainability practices have positioned TGME for a new era of responsible development.

Feasibility studies have identified high-grade, shallow ore bodies across deposits including Beta, Frankfort, and CDM. These resources, once considered uneconomic due to historical limitations, are now accessible and viable, offering Theta Gold Mines a strategic opportunity to revive a district rich with untapped potential.

Strong Economics, Favorable Market

The TGME Underground Gold Project is designed to become a cost-competitive operation with projected annual production of [insert figure] ounces of gold at an attractive all-in sustaining cost (AISC). Robust project economics include an estimated Net Present Value (NPV) of [insert value] and an Internal Rate of Return (IRR) of [insert percentage], underscoring the project's potential to deliver substantial cash flow and shareholder returns.

With gold prices maintaining resilience in the face of global uncertainty and inflationary pressures, TGME's output will benefit directly from strong demand for safe-haven assets. This favorable market backdrop provides an ideal environment for Theta Gold Mines to advance development and strengthen its position as a growing gold producer.

A Catalyst for Community Growth

Beyond financial returns, TGME is a cornerstone of regional economic and social development. The project is expected to create hundreds of direct jobs and thousands of indirect opportunities through local supply chains. Recruitment policies prioritize local hiring, while training and skills development programs are being introduced to prepare workers for careers in modern underground mining.

Special initiatives are in place to empower youth, women, and historically disadvantaged communities, ensuring inclusive participation in the project's benefits. Local businesses are also positioned to gain through procurement policies favoring regional suppliers.

Sustainability and Environmental Responsibility

TGME has been designed with sustainability at its core. Underground mining methods significantly reduce surface disturbance compared to open-pit operations, helping to preserve the cultural and environmental heritage of Pilgrim's Rest.

Environmental management plans include responsible water use, safe waste disposal, and rehabilitation of historical mining sites. In addition, Theta Gold Mines is exploring renewable energy solutions, including solar power, to lower emissions and enhance operational resilience.

Infrastructure and Investment

TGME benefits from a strong infrastructure foundation, including existing processing facilities, established road networks, and power access. Refurbishment and modernization of these facilities will reduce capital intensity while enabling early production timelines.

Theta Gold Mines is adopting a phased development strategy, starting with initial underground operations at Beta and Frankfort, then expanding to additional deposits as cash flow strengthens. This approach minimizes upfront risk while unlocking long-term potential across a land package exceeding 620 km².

Balancing Growth with Responsibility

Theta Gold Mines recognizes that responsible growth requires balancing investor returns with social and environmental stewardship. The TGME Underground Gold Project is guided by global Environmental, Social, and Governance (ESG) principles, ensuring that its operations meet both shareholder expectations and community aspirations.

Government revenues from royalties and taxes will support public services, while infrastructure development and community programs will create broader societal benefits.

By aligning its strategy with both financial and social imperatives, TGME is positioned to set a new benchmark for responsible mining in South Africa.

CEO Statement

Theta Gold Mines CEO commented:

"The TGME Underground Gold Project is a unique opportunity to combine financial strength with social responsibility. Our studies confirm that TGME is an economically robust project capable of delivering strong returns to our shareholders. At the same time, it is a catalyst for job creation, skills development, and sustainable growth for the people of Mpumalanga. We are committed to building a project that honors its historic legacy while creating lasting benefits for future generations."

Outlook

With permitting and development activities advancing, first production is targeted within timeline. The company remains focused on delivering milestones on schedule, maintaining transparency with stakeholders, and building strong partnerships with local communities.

As South Africa's oldest goldfield prepares for its modern revival, the TGME Underground Gold Project represents a powerful blend of history, innovation, and sustainability – a project that will deliver value for all.

About Theta Gold Mines Limited

Theta Gold Mines Limited (ASX: TGM | OTCQB: TGMGF) is an Australian-based gold exploration and development company with a primary focus on South Africa's historic Eastern Transvaal Goldfields. Through the TGME Underground Gold Project, Theta aims to build a profitable, sustainable, and socially responsible gold mining business that delivers long-term value for shareholders and communities alike.

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