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Lube Tips

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WearCheck LUBE TIPS: Volume 5

21. Lube tip: insights into oil additives

By simply including an additive, an inferior base oil cannot be converted into a premium product. It is illogical to use poor-quality oil on a continuing basis, and attempt to overcome its poor lubricating qualities with some special additive. A far better approach is to determine the manufacturer's recommendation as to the minimum API service rating required (API is a standard of quality grade for engine oil made by the American Petroleum Association), and then regularly use a blended lubricant of a higher-service classification than originally recommended, if an improvement in lubrication is the objective. Visit www.wearcheck.co.za for

The result may be an increase in corrosion-related problems. Visit www.wearcheck.co.za for more condition monitoring information.



23. Lube tip: the evolution of oil filtration systems

Early automotive engines didn't use any kind of filtration for the oil. It wasn't until a patent was granted to Ernest Sweetland and George Greenhalgh in 1923 - for their product the "pure oil later" or "Purolator" - that you could buy an automobile with a full-pressure lubrication system.

It would be many years later before a full-flow oil filter found on today's vehicles was incorporated.

The 1940s would bring about filtration systems on mass produced vehicles, and the 1960s made oil filter changes much more convenient with the advent of "spin on" disposable filters. Through the next few decades, advances were made in the internal construction and filter media, making the filters much more efficient. Today, all automotive engines, whether gasoline or diesel, come with filtration that is designed to improve oil



22. Lube tip: aftermarket oil additives can backfire

Increasing the percentage of a certain additive may improve one property of an oil, while at the same time degrading another. When the specified concentrations of additives become unbalanced, overall oil quality can be affected. Some additives compete with each other for the same space on a metal surface. For example, if a high concentration of an anti-wear agent is added to the oil, the corrosion inhibitor may become less effective.



24. Lube tip: too much of a good thing

More is not always the right approach when it comes to using oil additives. In many instances, blending more additive into the oil, does not result in improved performance. Sometimes, adding more additive actually causes the oil's function to deteriorate. In other cases, while the performance of the additive doesn't improve, the duration of service does, in fact, improve.



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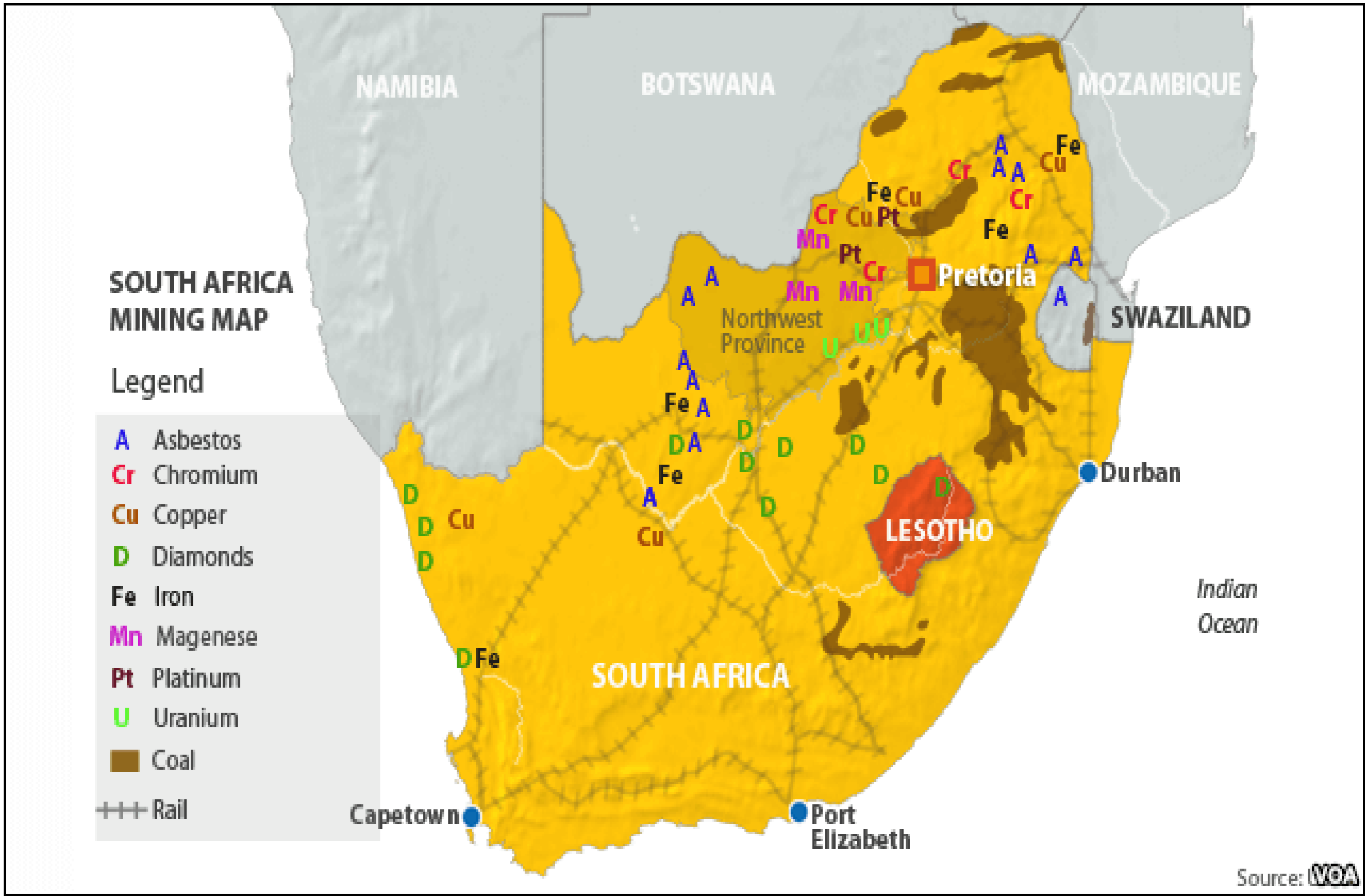
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South Africa's Rich Mineral Resources: A General Overview of Minerals

South Africa is a global leader in the mining industry, boasting a wealth of mineral resources that have been pivotal to the nation's economic development. This article delves into some of the key metal minerals found in South Africa, highlighting their significance, distribution, and the main mining companies involved.

A General Overview of Minerals

South Africa's mineral wealth is immense, with the country being home to a variety of minerals such as manganese, platinum group metals, chromium, gold, and more. As of recent estimates, South Africa's total mineral reserves are valued at over \$200 billion, excluding energy resources. This makes South Africa the richest country in terms of the value of its mineral resources.

1. Manganese

South Africa is the world's largest manganese ore resource country, with reserves estimated at 200 million tons in 2018. The Northern Cape Province, including the Postmasburg and Kalahari mines, is the primary hub for manganese deposits. The Kalahari mine, notable for its high-grade ore, is among the most significant contributors.

Major Manganese Mines in South Africa:

Project	Output (thousand tons)	Holding Company
Kalagadi	300	Kgalagadi (SA) 50%, Karakadi (SA) 40%, IDC (SA) 10%
Kudumane	2700	Kudumane (SA) 100%
UMK	1700	UMK (SA) 51%, Liwet (CH) 21.79%
Nchwaning/Gloria	3628	ARM (SA) 50%, Assore (SA) 50%
Hotazel	3720	South32 (SA) 44.4%, Anglo American (UK) 29.6%
Tshipi Borwa	3136	Jupiter (AU) 49.9%, Ntsimbintle (SA) 37.07%, OM (SG) 13.03%
Lomoteng	100	N&H (CN) 70%



3. Gold

South Africa's gold reserves were estimated at 6,000 tons in 2018, making up 11% of the world's total reserves. The Witwatersrand Basin and the Barberton area are the primary gold-rich regions. The Witwatersrand Basin is notable for its gold-bearing paleo gravel type deposits.

2. Platinum Group Metals (PGMs)

South Africa holds approximately 91% of the world's platinum group metal reserves, primarily concentrated in the Bushveld Igneous Complex. These metals are essential for various industrial applications, including catalytic converters in vehicles.

Key Gold Mining Areas:

- **Witwatersrand Basin:** The largest gold deposit in the world.
- **Barberton Area:** Known for its greenstone type gold deposits.

Major Platinum Metal Mines in South

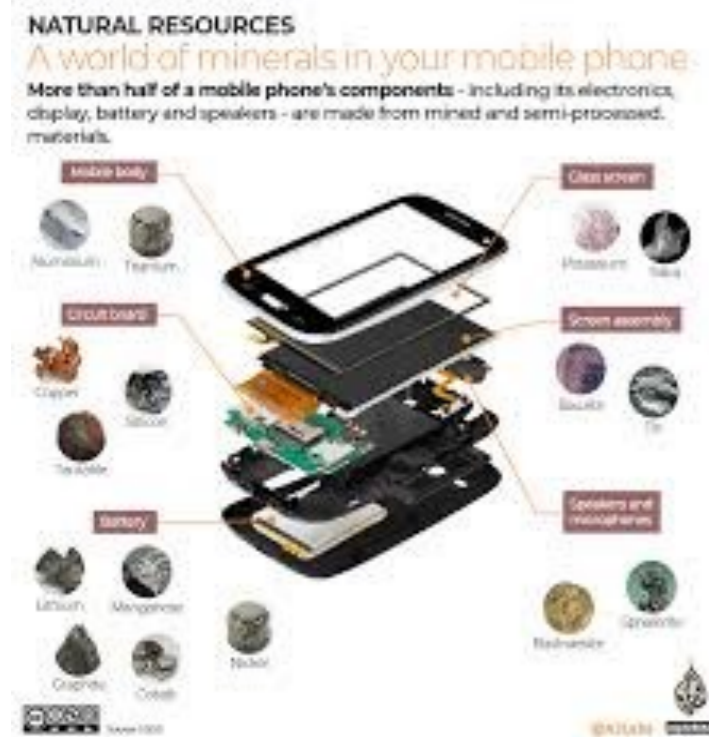
Project	Palladium Output (oz)	Platinum Output (oz)	Holding Company
Mogalakwena	508,900	508,900	Anglo American Platinum (SA) 100%
Marikana	303,165	616,791	Lonmin (SA) 82%
Rustenburg	218,491	809,527	Sibanye Gold (SA) 100%
Bafokeng-Rasimone	87,600	211,900	Royal Bafokeng (SA) 67%, Anglo American Platinum (SA) 33%
Impala	319,200	607,800	Impala (SA) 96%
Tharisa	21,558	80,355	Tharisa (SA) 74%
Zondereinde	84,614	173,770	Northam (SA) 100%
Pilanesberg	37,153	79,615	Sedibelo (SA) 100%

4. Chromium

South Africa's chromium ore reserves stand at 200 million tons, accounting for 39% of the global total. The chromium deposits are primarily located in the northeastern region, divided into east and west ore belts.

Major Chrome Mines in South Africa:

Project	Output (thousand tons)	Holding Company
Dwarsrivier	1200	Assore (SA) 100%
Stellite	450	Afarak (FI) 41.06%, MidUral (RU) 29.59%, UmnothoweSizwe (SA) 19.5%
Black Chrome	250	K2016291369 (SA) 100%
Thornccliffe	NA	Glencore (CH) 79.5%, Melafie (SA) 20.5%
Kroondal Gemini	NA	Glencore (CH) 79.5%, Melafie (SA) 20.5%
Waterval West	NA	Glencore (CH) 79.5%, Melafie (SA) 20.5%
Dilokong	NA	SINOSTEEL (CN) 60%, Government Republic of SA (SA) 40%



South Africa's mineral resources are a critical component of its economy, providing significant contributions to global markets. The country's mining sector continues to evolve, with technological advancements and sustainable practices driving future growth. For detailed insights into South Africa's mineral resources, visit the [JXSC Machine website \(JXSC Machine\)](#) ([JXSC Machine](#)).

This article provides a glimpse into the wealth of minerals that South Africa holds, underscoring the nation's pivotal role in the global mining industry.



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As South Africa commemorates Youth Day on June 16, it is a time to reflect on the historical significance of the day and the continuous struggle to bridge the inequality gap that persists in our society. This year's theme, "Actively Advancing Socio-Economic Gains of Our Democracy," calls for a renewed focus on the education and empowerment of young people in order to eradicate unemployment—a mission that organisations like Afrika Tikkun are passionately pursuing.

The Historical Significance of June 16

Youth Day marks the anniversary of the Soweto Uprising in 1976, a pivotal moment in South Africa's history when students took to the streets to protest against the oppressive Bantu Education Act and the enforcement of Afrikaans as a medium of instruction.

The bravery and sacrifice of these young individuals catalysed a movement that would eventually contribute to the dismantling of apartheid; and yet the present challenge remains to be inequality and unemployment

The youth of today grapple with an alarmingly high unemployment rate. This not only hampers individual growth but also stymies the socio-economic development of the nation as a whole.

Afrika Tikkun's Role in Youth Development

For 30 years, Afrika Tikkun has been at the forefront of addressing these challenges. With a holistic development model that spans from early childhood development to career readiness, Afrika Tikkun has, to date, reached over 320 000 young people, equipping them with the skills necessary to thrive in the modern economy.

Their programmes are designed to provide the education and social support that extends beyond mere job placement, fostering a sense of hope and dignity among the youth.

Bridging the Gap

The work of Afrika Tikkun is a testament to the power of collective effort in bridging the inequality gap. By providing access to education, skill development, and employment opportunities, this remarkable organisation is actively contributing to the socio-economic gains of our democracy. Their success stories are a beacon of hope, showing that, with the right support, the youth can overcome seemingly insurmountable barriers and become productive citizens.



A Call to Action

As we commemorate this day, let us not only remember the sacrifices of the past but help to overcome the challenges of the present. It is a day to celebrate the indomitable spirit of the youth and to commit to actively advancing the socio-economic gains of our democracy. Let us all—government, private sector and civil society—work together to support initiatives like Afrika Tikkun’s and ensure that every young person has the opportunity to fulfill their potential.

In the spirit of Youth Day, let us pledge to create a more equitable and prosperous future for all South Africans, where the dreams of the youth are not hindered by the circumstances of their birth but are instead nurtured to fruition. Together, we can build a nation that truly embodies the ideals for which the youth of 1976 bravely stood.

This day serves as a reminder of the ongoing journey towards equality and the critical role that youth development plays in achieving the socio-economic success in our country. As we honour the memory of those who fought for freedom, let us pledge to become actively engaged in the work that remains to be done. Happy Youth Day, South Africa!

For more information click on [30yearsoftikkun](https://www.30yearsoftikkun.org)

About Afrika Tikkun

Afrika Tikkun is a non-profit organisation celebrating 30 years of providing education, health, and social services to disadvantaged communities within South Africa. There are nine (9) development centres across South Africa’s provinces in which Afrika Tikkun’s Cradle-to-Career 360-degree model provides a holistic approach to the development of young people. The model starts from early childhood to work readiness when they are ready to access economic opportunities. Currently supporting over 40,000 children and youth across the country, Afrika Tikkun’s primary goal is to create a sustainable future through economic and social empowerment for the youth of South Africa, for 30 years and beyond.

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Meru Greenwood City Mall

A Million Dollar Visionary Hub of Growth and Innovation in Meru



Meru Greenwood City Mall, developed by Fusion Capital, a leading real estate investment firm in Kenya, marks a significant milestone in the country's retail and commercial landscape. This state-of-the-art development is not just a shopping destination; it embodies a new era of growth and modernity for Meru and the surrounding regions. Situated in a prime location, the mall is strategically positioned to cater to the growing middle-class population, offering a unique blend of retail, entertainment, and dining options.

The motivation behind Greenwood City was to deliver a Grade A mixed-use development in the fast-growing town of Meru, attracting premium tenants equivalent to those in major cities across the country. Additionally, the project aimed to create local employment opportunities both

during the construction phase and the mall's operations.

Meru was chosen for its prime location, accessibility from key towns around the Mt. Kenya region, including Embu, Nanyuki, and Isiolo, and its vibrant economy that supports retail business. The project kicked off in 2015 and was mostly undertaken during the COVID-19 pandemic. The mall was completed ahead of tenant fit-outs in October 2022. The mall is part of a mixed-use development sitting on slightly over 6 acres, with the mall itself occupying about 3.8 acres and offering a gross lettable area (GLA) of 12,000 square meters.

The Greenwood City Mall hosts a wide variety of businesses, ranging from financial institutions to retail and dining establishments. Some of the notable tenants include:

- **Financial Institutions:** COOP Bank, KCB Bank, Stima Sacco, Apstar Sacco
- **Retailers:** Naivas, Linton's, Citywalk, Bata, Dr. Mattress, Victory Furniture
- **Healthcare:** Gertrude's Hospital
- **Dining:** KFC, Java
- **Others:** Electronic shops, beauty and clothing outlets, and more.



The entire project represents an investment of well over 1 billion Kenyan Shillings, and this figure is expected to grow once the mixed-use development is completed. The mall's impact extends beyond retail, serving as a significant economic catalyst for the region. By providing a platform for both established businesses and new ventures, Fusion Capital is actively contributing to Meru's economic development. The mall's construction generated hundreds of jobs, and its operation continues to employ a diverse workforce, from retail staff to security personnel. The presence of anchor tenants and well-known brands attracts a steady stream of visitors, boosting local businesses and stimulating economic activity in the surrounding area.

The Greenwood City Mall prides itself on being the first premium-value mall in Meru and its greater environs. It features a modern international design language, with high-end finishes and well-planned retail shops. The mall boasts world-class facilities, including Meru's first escalator, spacious panoramic lifts, and a well-lit atrium with bespoke frameless glass balustrading.



Materials and Design:

- **Floors:** A mix of high-quality ceramic and granito tiles, stainless steel cladding, and modern shopfront designs in powder-coated aluminum.
- **Glass:** Significant use of glass in the façade and atrium to create naturally lit spaces.

Landscaping: A mix of imported and indigenous landscaping to seamlessly adapt to the environment.



Facilities:

- **Parking:** 220 parking slots on ground and basement levels.
- **Utilities:** Standby power for common areas, a borehole for water supply, and connection to the bulk sewer system.

Security: A perimeter wall and 24/7 security services.



In line with Fusion Capital's commitment to sustainability, the mall incorporates several eco-friendly features, such as energy-efficient lighting and climate control systems, water-saving fixtures, and waste management practices. The mall is also planning to roll out solar power for common areas, use motion and time sensors to reduce energy consumption and maintain natural lighting considerations.

Meru Greenwood City Mall is more than just a commercial hub; it is a community space that brings people together. The mall's design includes open spaces and event areas that host cultural activities, exhibitions, and performances, promoting local arts and culture. These events provide a platform for local artists and performers to showcase their talents, enriching the cultural landscape of Meru.



Location and Accessibility

- **Strategic Location:** The property sits just off the Meru-Nairobi highway, which passes directly through Meru's Central Business District (CBD).
- **Accessibility:** It is accessible by both public and private means, with the second-largest of Meru's matatu stages, Makutano Bus Station, situated directly opposite. The mall is near public parking spaces that complement its own parking facilities.



Daniel Kamau

Chief Executive Officer

Daniel Kamau is the Chief Executive Officer at Fusion Capital. He is the immediate former Executive Director in charge of Real Estate, the division which has seen the Group evolve from a medium size micro equity firm to a private equity operator and a leading real estate developer.

"You know your business is guaranteed footfall if it's located in a modern urban mix-use development such as Meru Greenwood City Mall." Fusion Capital Group CEO, Daniel Kamau.

**Interested in letting space at the mall?
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Project Team

The successful delivery of the Meru Greenwood City Mall was made possible by a collaborative effort of various consultants, contractors, and service providers:

Consultants:

- ◆ Triad Architects
- ◆ Dimension Interiors
- ◆ Beeque Consultants
- ◆ Multiscope Consulting Engineers
- ◆ Metrocom Consultants

Letting Agents:

- ◆ Citiscape Valuers

Contractors:

- ◆ Mizpah Contractor Agency (MC)
- ◆ Central Electricals Ltd
- ◆ Allied Plumbers Ltd
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- Ensuring all **equipment used is suitable** for the work and properly maintained.
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