



Underground in one of the twin declines being developed to provide access to the ultra-high-grade copper resources at the Kakula Discovery on the Kamo-a-Kakula Copper Project in the Democratic Republic of Congo.



Building futures
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in Southern Africa's
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KAMOA-KAKULA

Copper discoveries
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**Democratic Republic
of Congo's Central
African Copperbelt**

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Platinum-group elements, nickel,
copper & gold discovery
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**South Africa's
Bushveld Complex**

KIPUSHI

Zinc, copper, silver
& germanium
at upgraded, historic,
high-grade mine
**D.R. Congo's
Copperbelt**



Kamoa-Kakula, DRC – **Kakula Mine**

Workers with contractor JMMC installing water pipes and ventilation tubing in one of the twin declines at the Kakula Discovery.



Kamoa-Kakula – Kakula Mine

JMMC team members adjusting one of the jumbo drills used in the underground tunnelling operations that have advanced Kakula's twin declines approximately 400 metres toward the high-grade copper deposit.



Kamoa-Kakula – Kakula Mine

Jumbo drill in operation in the Kakula services decline.



Kamoa-Kakula – Kakula Mine

A member of the decline construction team testing the thickness of shotcrete applied to the walls of the conveyor decline at Kakula. Shotcrete is used to provide additional support in the underground excavations.



Kamoa-Kakula – Kakula Mine

A Health and Safety representative at the Kamoa-Kakula Project supplying an underground safety lamp to a member of the decline-development team.



Kamoa-Kakula – Kakula Mine

Oliver Nzam and Christelle Kyungu, members of Kakula's geology team, logging high-grade core samples from a hole recently drilled in the Kakula West area.



Kamoa-Kakula – Kakula Mine

One of 13 rigs at the Kakula Discovery. More than 21,000 metres have been drilled since the beginning of 2018, including step-out holes to expand the resources, in-fill holes to upgrade the resources, and wedge holes for metallurgical test work.



Kamoa-Kakula

Geologist Nestor Kambaj at a mobile, seismic vibrator rig being used by Hi-Seis, a leading international services company, to survey the Kamoa-Kakula licence area. The device creates seismic waves to produce reliable, quality images of hard-rock environments to help identify drilling targets to test for potential, Kakula-like discoveries.



Kamoa-Kakula

Metallurgist Mahamodou Traore (right) at a new communications tower installed at the Kamoa-Kakula Project by Vodacom DRC, which provides mobile communications and related services across five Southern African nations.




Kamoia-Kakula

Kamoia-Kakula Project employees Celestine Kasongo and Olivier Kahilu harvesting lettuce from the Livelihoods garden as part of the program supplying produce to the Kamoia-Kakula Project.



Kamoa-Kakula

Poultry project, which supplies chickens and eggs to the Kamoa-Kakula Project, is one of the initiatives of the Kamoa-Kakula Sustainable Livelihoods Project working to build a sustainable, independent economy in nearby communities.



Employees from local communities, who had no previous mining experience, now comprise about 40% of Platreef's shaft-sinking team

Platreef, South Africa

Sinah Tjale, a Health and Safety representative, arriving at one of the underground substations in Shaft 1 at Ivanhoe's Platreef mine development project in South Africa.



Platreef

Drilling of blast holes as part of early-works construction for Shaft 2 at the Platreef Mine in South Africa.



Platreef

Fabian Fredericks, Platreef's Strata Control Officer, measuring the depth of a blast hole prior to loading with explosives.



Platreef

Loading explosives for the first blast for the Shaft 2 box cut development, which took place on April 12, 2018.



Platreef

Contract metalworker from Aveng Mining fabricating a safety grate for installation in Platreef's Shaft 1.



Platreef

Three of 15 student interns – (from left) Prince Malatji, Dikeledi Maakanedi and Titus Mashitisho – participating in the Mining & Engineering Learnership program at the training academy for Ivanplats. The Platreef Project is owned by Ivanplats, which is 64%-owned by Ivanhoe Mines.



Platreef

Surveyor Augustin Dikhudu at the Platreef Project's Shaft 2 box cut.



Platreef

Siphosiso Manyeke (left), Ivanplats' Human Resources Manager, with one of the recipients of Platreef's local community scholarship program.



Kipushi, DRC

Infrastructure upgrading work along the main haulage way on the Kipishi Mine's 1,150-metre level, between the Big Zinc access decline and Shaft 5.

Ivanhoe now has a much clearer path to its planned start of production from the unmined, incredibly high-grade Big Zinc orebody.



Kipushi

The crusher and rock load-out facilities at the bottom of Shaft 5.



Kipushi

The Shaft 5 rock-hoisting winder now is fully operational.



Kipushi

Inspecting electrical panels in the Shaft 5 rock-hoisting winder room that are required to meet global industry standards and safety criteria.



Kipushi

Inspecting pumping station electrical panels at the 1,200-metre level underground. Kipushi has been upgraded and modernized to meet international industry standards and safety criteria.



Kipushi

Final upgrading work on Kipushi's new, underground ore-conveyor system.



Kipushi

New rollers being installed on the ore conveyor on the Kipushi Mine's 1,150-metre-level as part of the infrastructure upgrading program.



Kipushi

Deki devices provide automated readings of rapid diagnostic tests, removing the human-error factor and avoiding unnecessary prescription of medication, as part of the Ivanhoe-sponsored Fionet program to improve malaria diagnostics and treatment in Haut-Katanga and Lualaba provinces, in southern DRC, which host Ivanhoe's Kipushi and Kamoia-Kakula projects..



Kipushi

Regular maintenance of one of the Grifo pumps at the 1,200-metre-level pump station.