



Palladium prices continue to surge to new record highs, topping **US\$1,800 an ounce** as stricter air-quality rules boost demand for the metal used in vehicle pollution-control devices. The price increase has propelled Ivanhoe's Platreef Project 'metals-price basket' to a new, multi-year high. Mine development is progressing at Ivanhoe's Tier One palladium-platinum-nickel-copper-gold-rhodium project in South Africa. Click [here](#) to read the news release.

Building what will be **3 of the world's best mines** and exploring for the **next copper giant** in Southern Africa's legendary mineral fields

WESTERN FORELAND

Copper exploration
Democratic Republic of Congo's
Central African Copperbelt

KAMOA-KAKULA

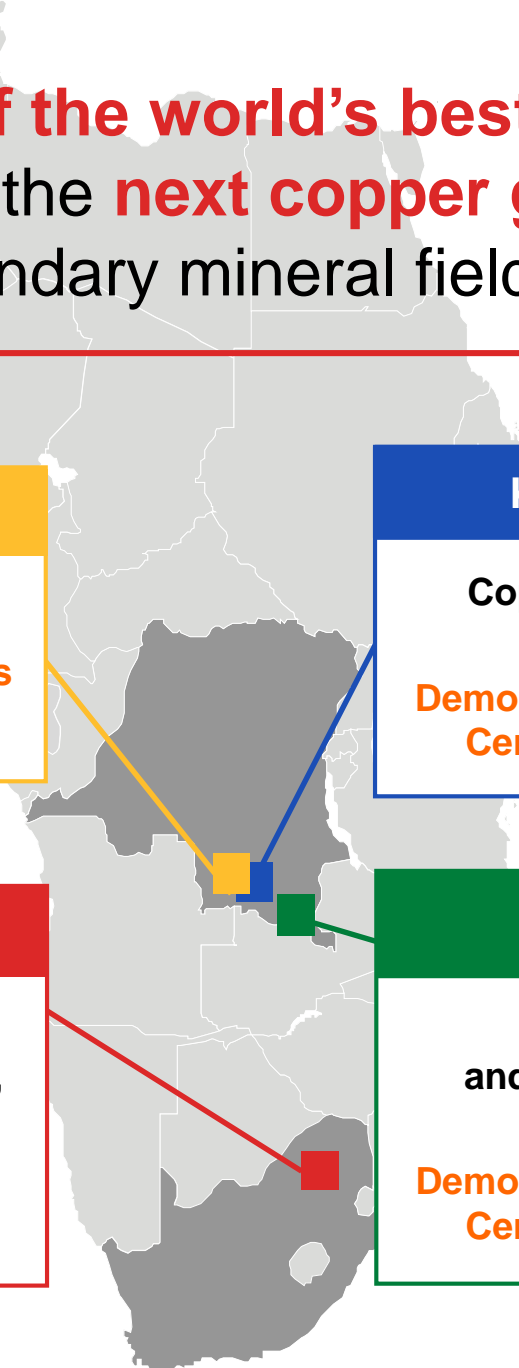
Copper mine development
and exploration
Democratic Republic of Congo's
Central African Copperbelt

PLATREEF

Mine development at
platinum-group elements, gold,
nickel and copper discovery
South Africa's
Bushveld Complex

KIPUSHI

Zinc, copper, silver
and germanium at historic,
high-grade mine
Democratic Republic of Congo's
Central African Copperbelt

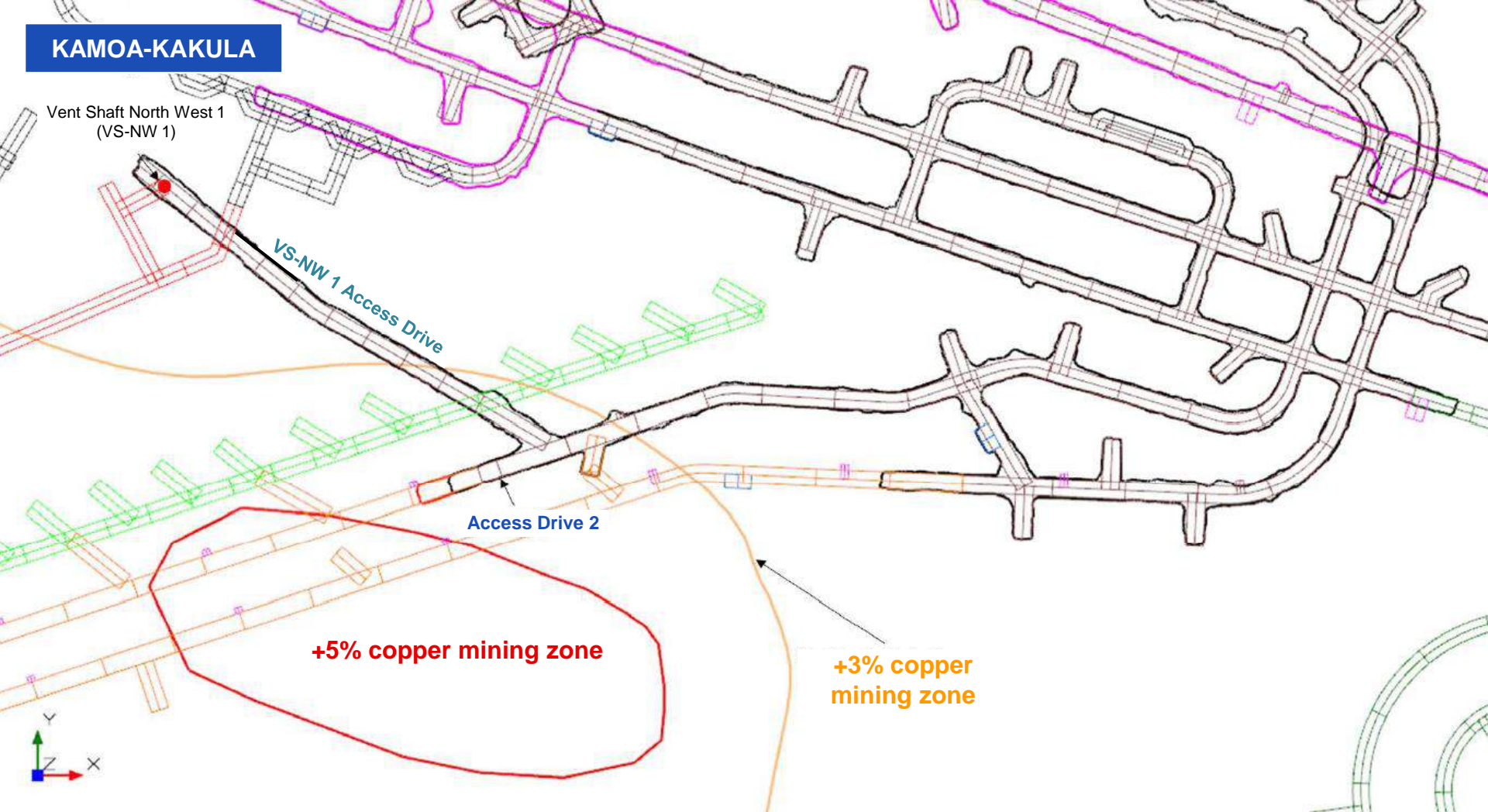




An LHD scoop tram loads development ore into a 50-tonne truck for transport to surface. Underground development at Kakula is progressing ahead of schedule as the project tracks towards first production in Q3 2021.

KAMOA-KAKULA

Vent Shaft North West 1
(VS-NW 1)

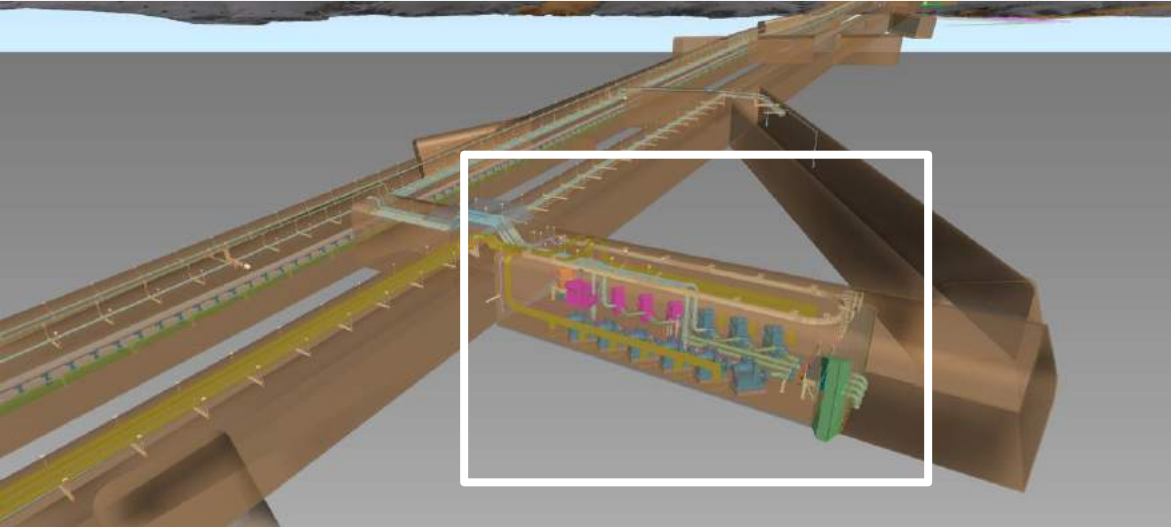


Schematic showing underground development work completed to date at Kakula (in black). Now that the **VS-NW 1 Access Drive** has been completed, **Access Drive 2** is expected to begin mining in a **+5% copper mining zone** (in the red circle) in early November.



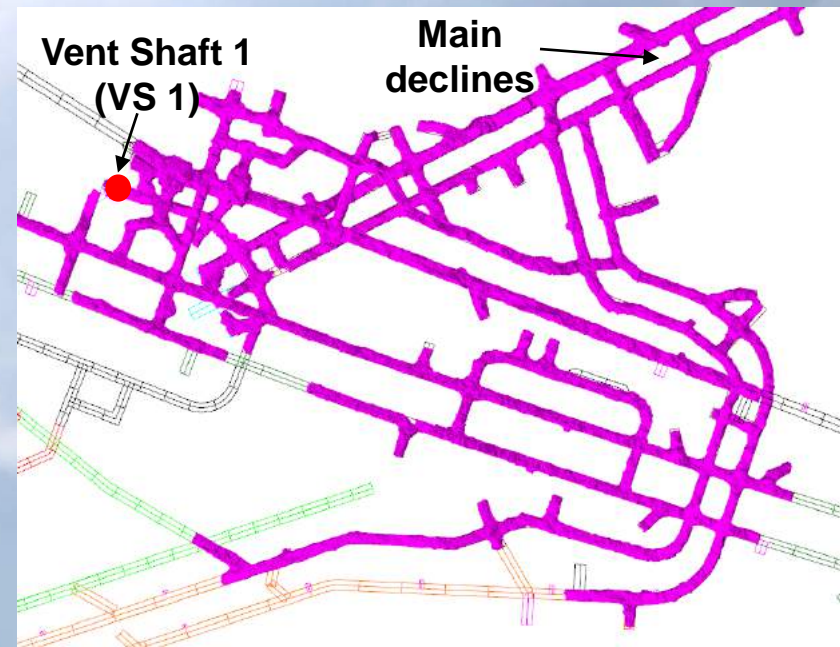
A miner loads explosives in the face of Kakula's Access Drive 2 in preparation for a blast. The access tunnel is expected to begin mining a high-grade zone grading above 5% copper in early November as it advances toward the ultra-high-grade copper zone (+8% copper).

Workers install new pipes at Kakula's main decline water dam and pumping station (see schematic on bottom left).



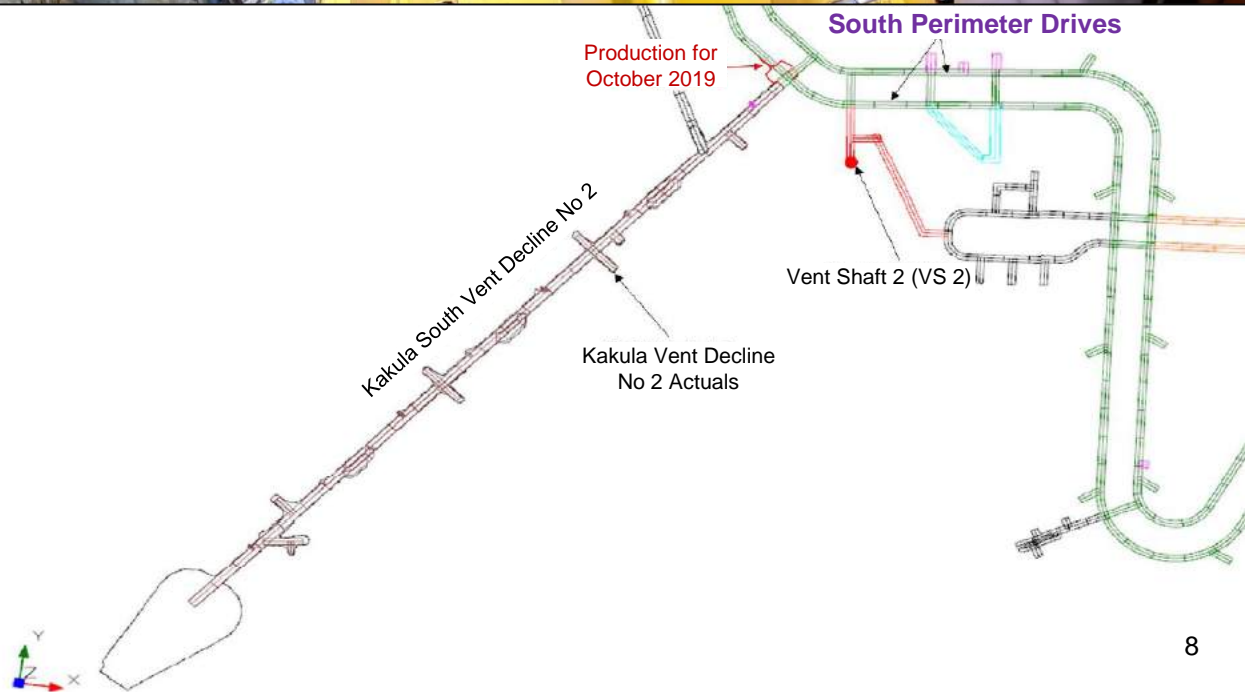
Commissioning the fans at Kakula's ventilation shaft 1. The high-capacity fans are now in operation, delivering fresh air from surface to underground, allowing for additional crews to begin mining.

Schematic on the right shows ventilation shaft location relative to the underground development completed to date (in purple).





Miners drilling at the face of Kakula South Vent Decline No 2. Development of the decline has progressed to within 25 metres of intersecting the **South Perimeter Drives** (see schematic on the right).



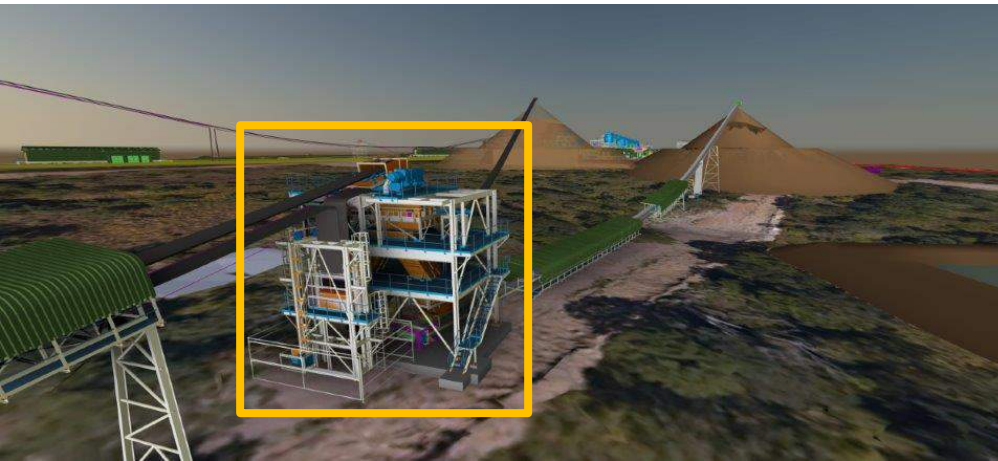


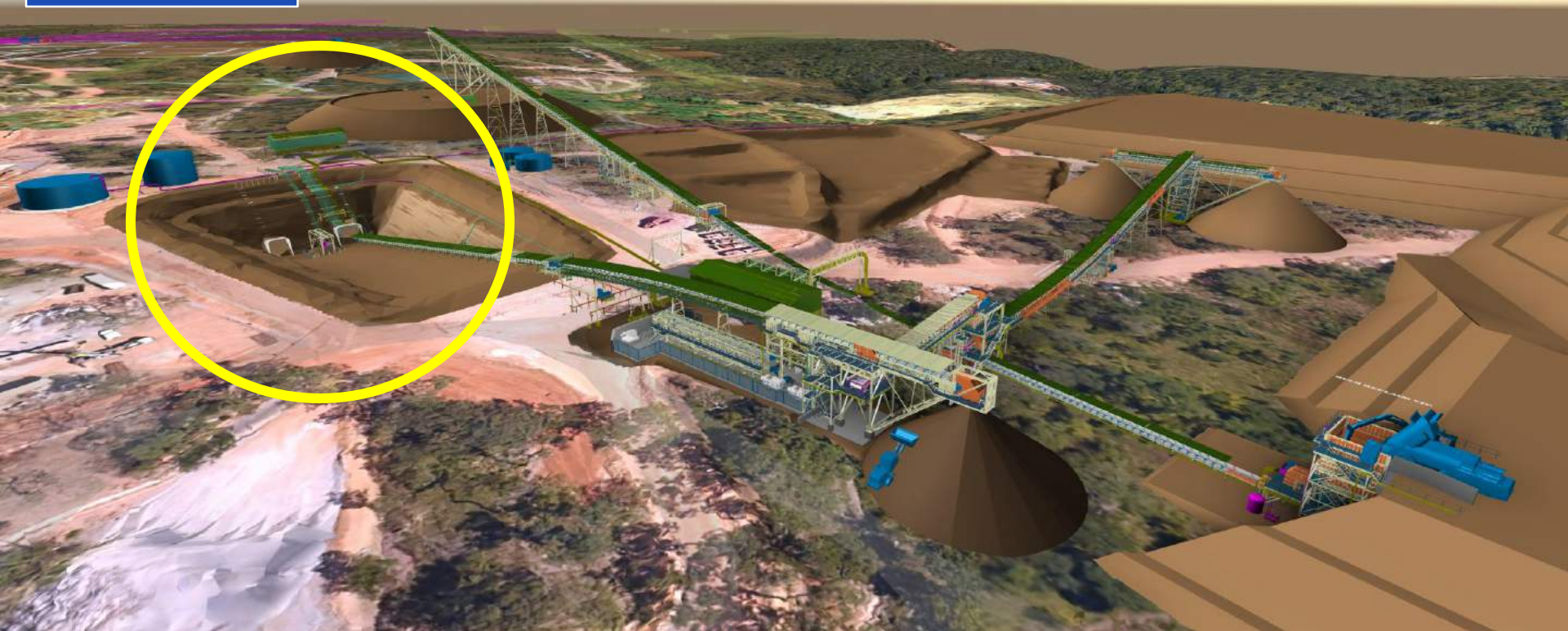
Steven Kafula, Assistant Safety Manager, conducts a pre-shift safety meeting with one of the six underground mining teams now working at the Kakula Mine.

Construction of the Kakula decline conveyor belt tower (in the white box on the right).

The installation of the decline conveyor, which will carry ore from underground to the run-of-mine stockpiles, is on target for completion in May 2020.

Below is a rendering of the completed conveyor belt tower (in the yellow box).





Screenshot of the 3-D engineering model of the ore conveyor system that will carry ore from underground via the main northern declines (portal for the declines circled in yellow) to various run-of-mine surface stockpiles, which will be based on ore grades.



Screenshot of the 3-D engineering model of Kakula's surface infrastructure, including the ore conveyor, run-of-mine ore stockpiles and processing plant (circled in yellow).



Miner trainee learning to operate a jumbo drill at Kamoa-Kakula's new training facility at the Kansoko Mine.

Building a modern, highly mechanized underground mine takes specialist skills. To help prepare the future workforce for operating the Kakula mine, new employees receive intensive, on-site training for underground mining and complete a workplace-safety induction course on safe operating procedures.

Technician Erick Mbuya sampling drill core from Kamo North Bonanza Zone. Holes vital for an initial resource estimate have been fast-tracked for sampling.

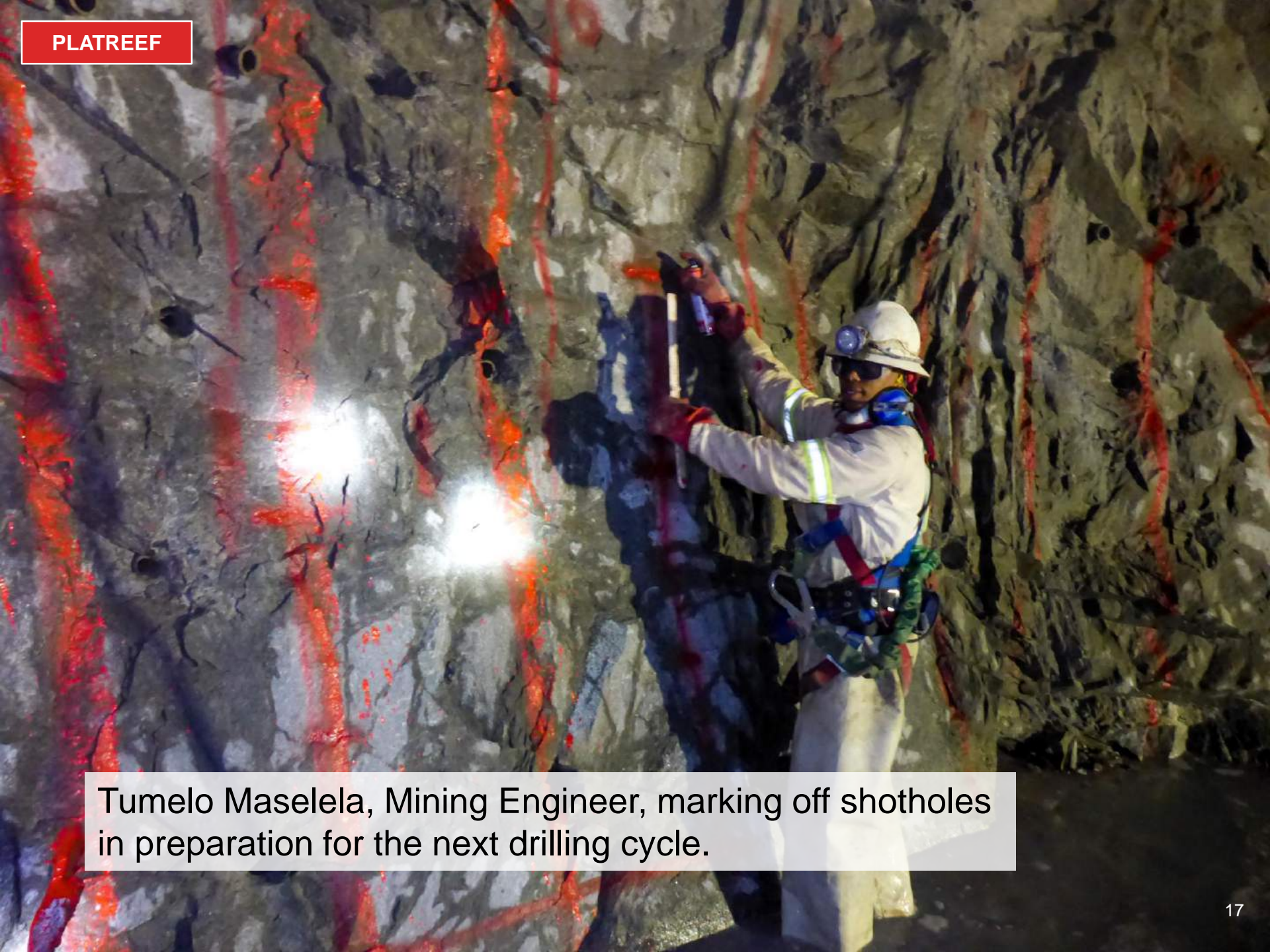


Kamoa-Kakula's adult literacy program, part of the project's community skills development program.





Moolmans shaft-sinking miners Mario Matusse (left), Bennette Katjeipe (centre), and Julius Mbeteni (right), arrive on surface after completing a shift developing Platreef's 950-metre-level station.



Tumelo Maselela, Mining Engineer, marking off shotholes in preparation for the next drilling cycle.



Rockdrill operators preparing to drill shotholes for the next development blast at the 950-metre-level station.



Raisibe Ntini, geology intern, mapping geological features at the 950-metre-level station.



William Makhafola taking air-flow measurements from a ventilation pipe at Platreef's Shaft 1.



Amos Ledwaba (left), Tebogo Malope (centre) and Thabang Baloyi (right) preparing support steelwork for Shaft 1's 950-metre-level station.



Tim Hudson, Acting Rock Engineer (left), getting his safety equipment checked by Lawrence Mokwena (right) before going underground.



Platreef's Shaft 1 underground crew (left) celebrating their commitment to safety. Sessions were held with all employees to re-commit to the project's safety improvement plan and initiatives.

A new sign indicating the team's safety commitment has been posted on the pedestrian safety walkway to Platreef's Shaft 1 headframe (right).



The Ivanplats team celebrated Arbour Day by planting trees near the Platreef project site.



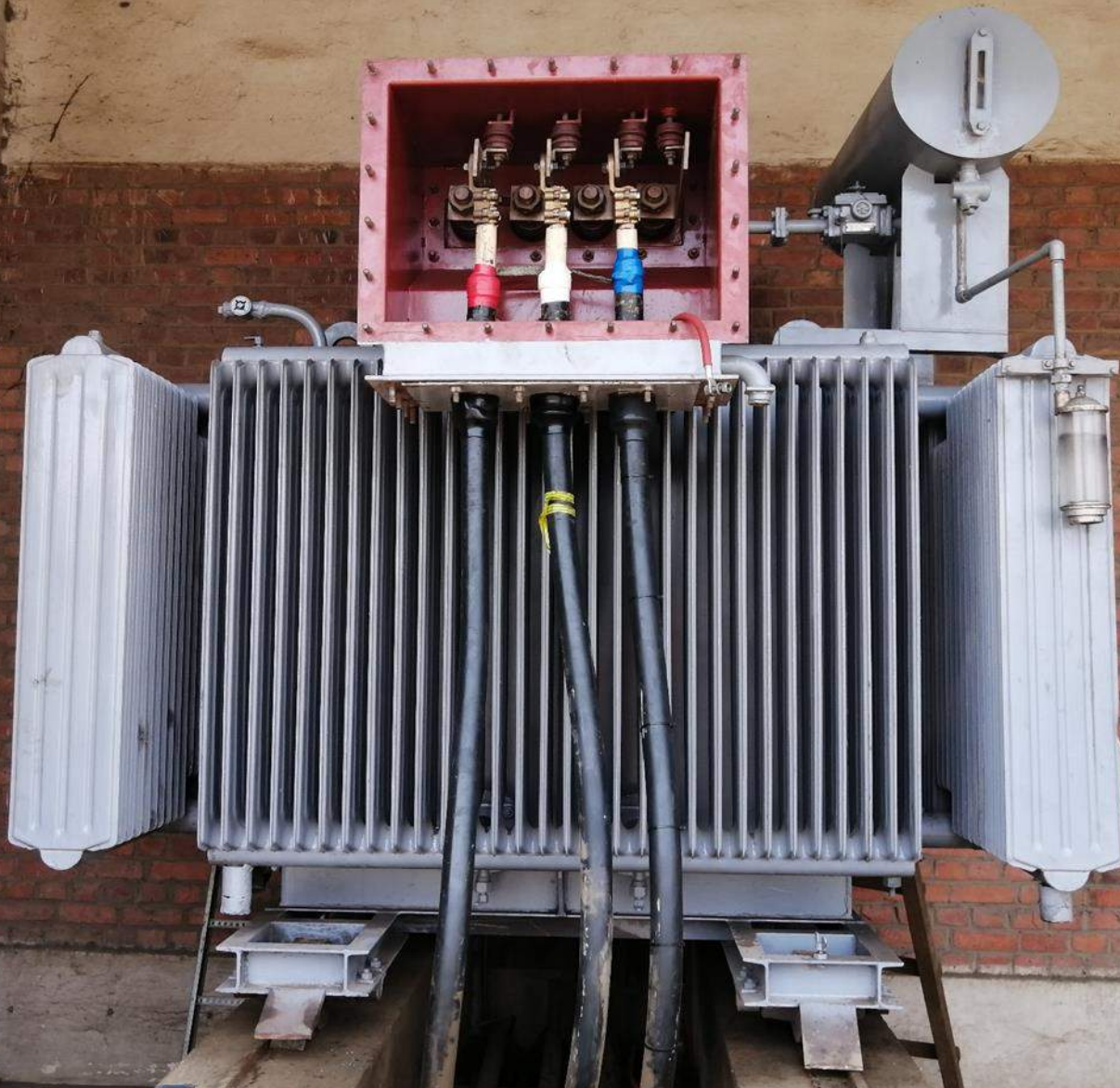
Students from the AB Makapan school celebrate after receiving prizes for their HIV/AIDS Awareness Campaign. Ivanplats supports peer educators in six schools to provide preventative education regarding HIV/AIDS and substance abuse, benefiting approximately 4,000 students.



Kaboya Geullord installing brackets along Kipushi's T4 conveyor belt that will transport ore from the underground mine to surface.



Kalala Kasongo drilling concrete at the T4 ore conveyor belt discharge point.



A new 1,250 kVA (kilovolt amperes) electrical transformer ready to be installed at the P5 substation.



Upgrading and cleaning completed
at Kipushi's 1,132-metre-level garage.



A new pipeline has been installed and potable drinking water now is available underground at the 1,150-metre-level station.



Members of Kipushi's Corporate Social Responsibility (CSR) team together with representatives of United Nations Children's Fund (UNICEF).



Upgrading work now is complete at the Mungoti community school that adjoins the Kipushi Mine. The upgrading project was funded by the Kipushi Mine.