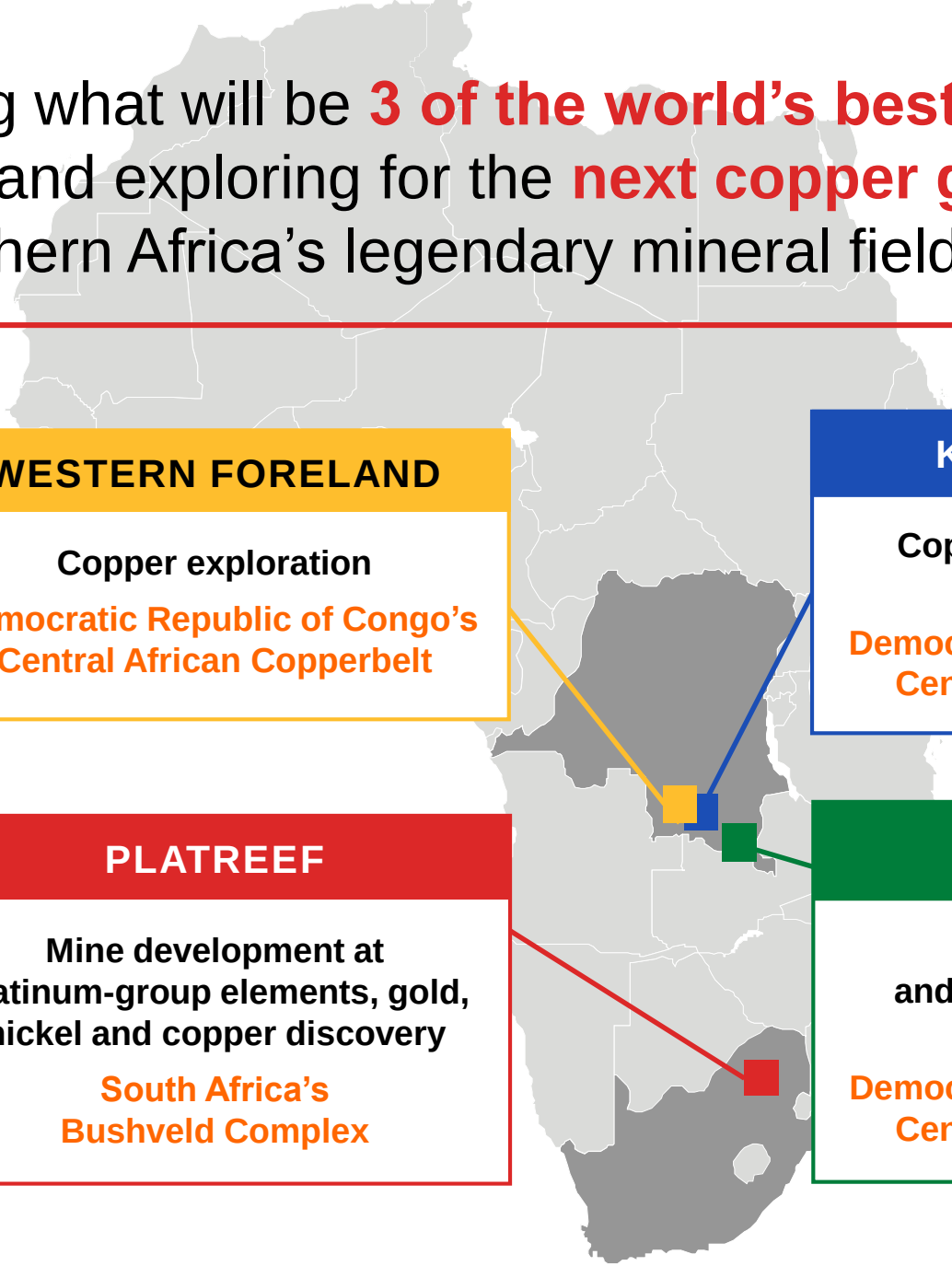
IVANHOE MINES
NEW HORIZONS

PROGRESS GALLERY / September 2020

Building futures. Strengthening communities.

Installation of the two ball mills for Kamoa-Kakula's initial, 3.8-million-tonne-per-annum (Mtpa) concentrator plant is advancing rapidly. Construction of the plant and associated surface infrastructure is more than 52% complete.

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

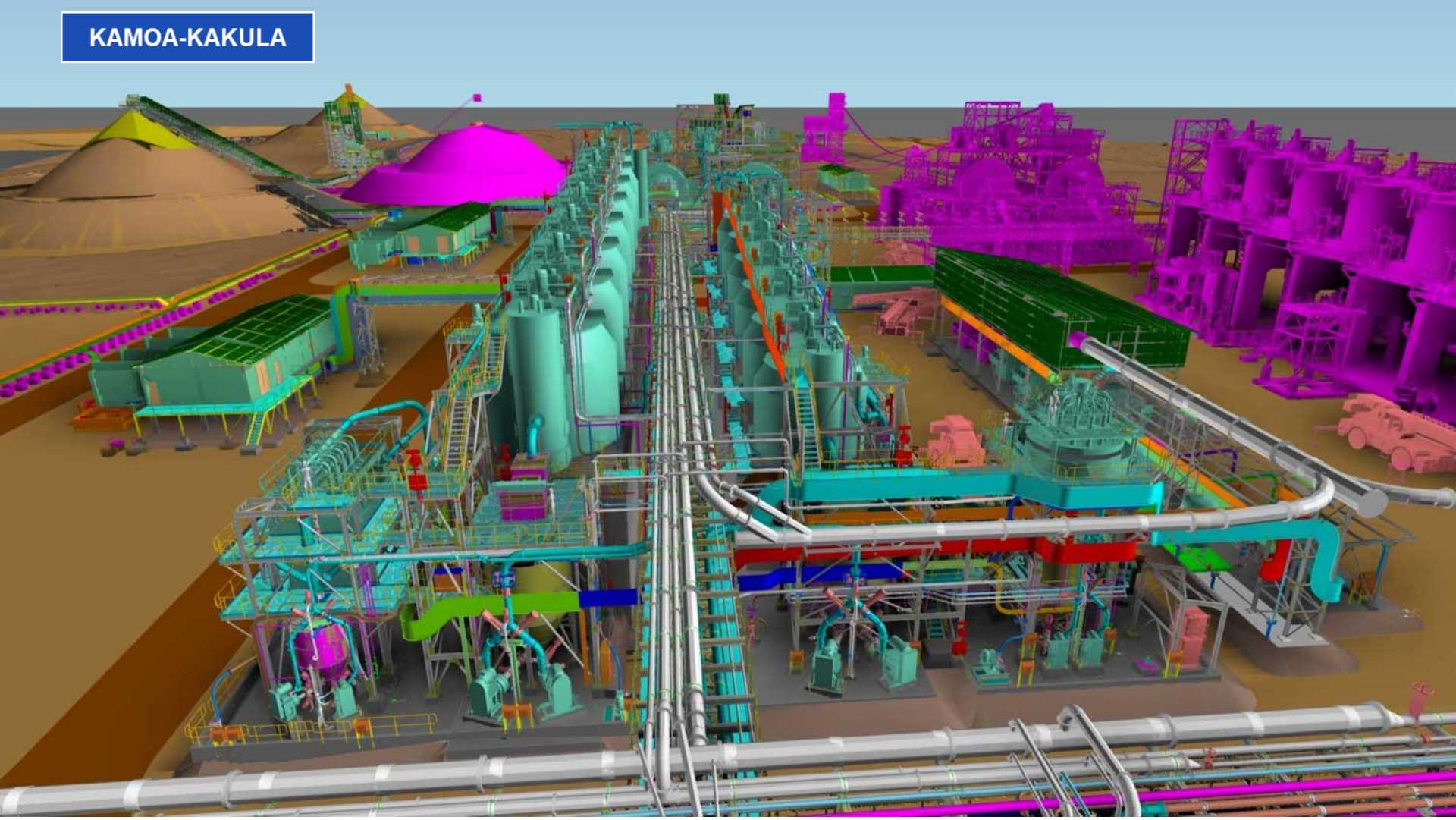
Democratic Republic of Congo's Central African Copperbelt

Aerial view of Kamoa-Kakula's initial 3.8-Mtpa concentrator plant under construction. The high-pressure-grinding-rolls (HPGR) stockpile is on the right side of the picture. The recently-initiated, second 3.8-Mtpa concentrator plant will be constructed on the left side of the picture.

Cranes installing the shells and trunnions for the second of two identical ball mills that will be used to grind copper ore at Kakula's initial 3.8-Mtpa concentrator plant. A 3D illustration of the finished ball mills is below (shown in green).

A 3D illustration of the finished ball mills (in green), with the next two ball mills for the recently-initiated second concentrator plant shown in magenta.

Kakula’s initial 3.8-Mtpa concentrator plant under construction, showing the first four flotation cells (green) and the two ball mills (yellow). A 3D illustration of the finished plant is shown in the picture below.



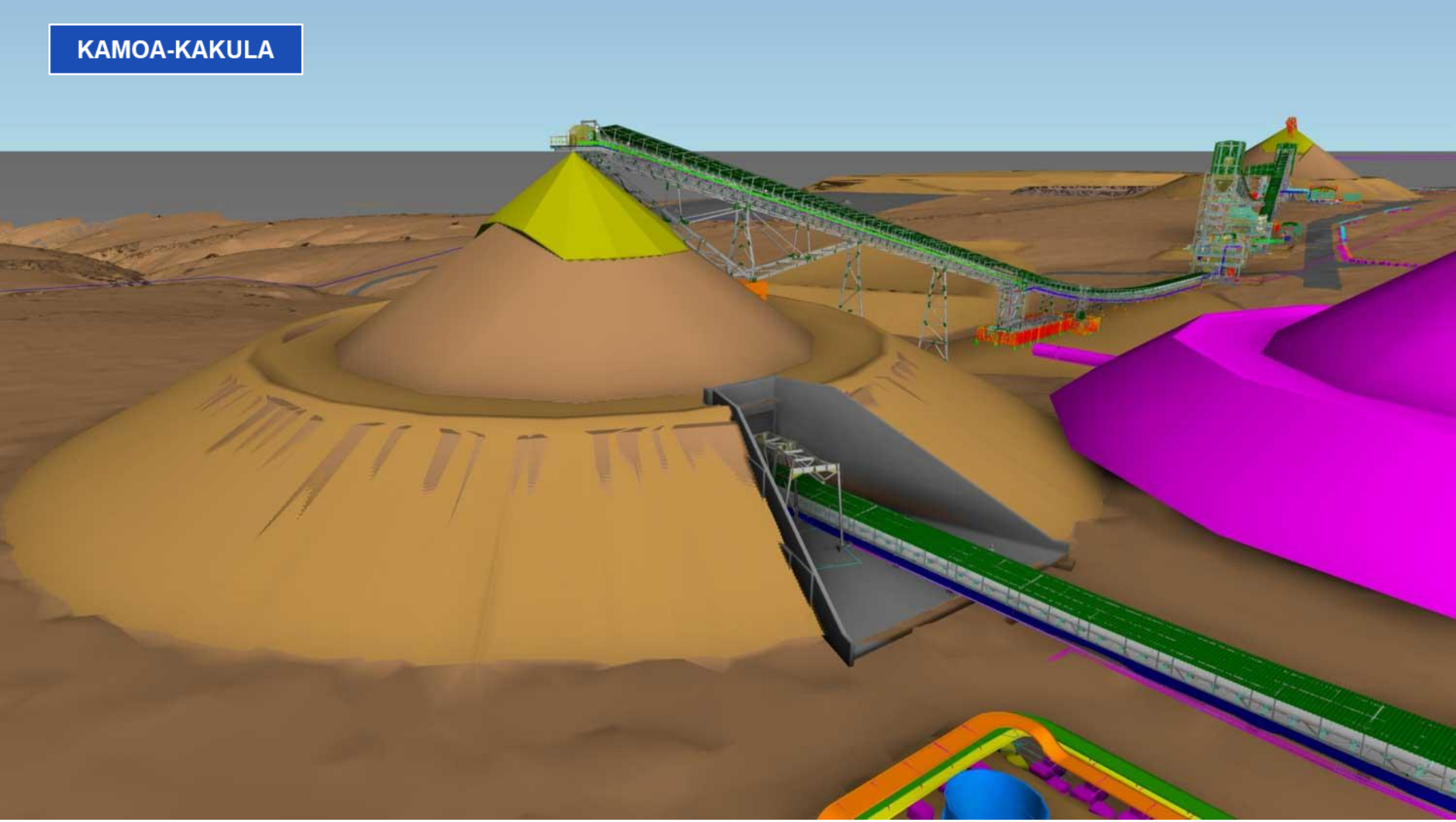
A 3D illustration of the first 3.8-Mtpa concentrator plant, with the recently-initiated second 3.8-Mtpa concentrator plant shown in magenta.

Girth gear installation for one of the ball mills at Kamoa-Kakula's initial concentrator plant, which is on track to begin producing copper concentrate in Q3 2021.

Crews preparing structural steel beams that will be lifted into place to support the concentrator plant’s additional flotation cells.

Construction of Kamoa-Kakula’s copper concentrate storage building.

Kakula’s high-pressure-grinding-rolls (HPGR) stockpile under construction. A matching 3D illustration of the finished HPGR stockpile is shown in the picture below.



A matching 3D illustration of the finished HPGR stockpile, with the recently-initiated second HPGR stockpile shown in magenta.

Construction of the tailings storage facility at the Kakula Mine. Approximately one half of the mine's tailings will be sent back underground to fill mined-out voids, significantly reducing the size of the tailings storage facility.

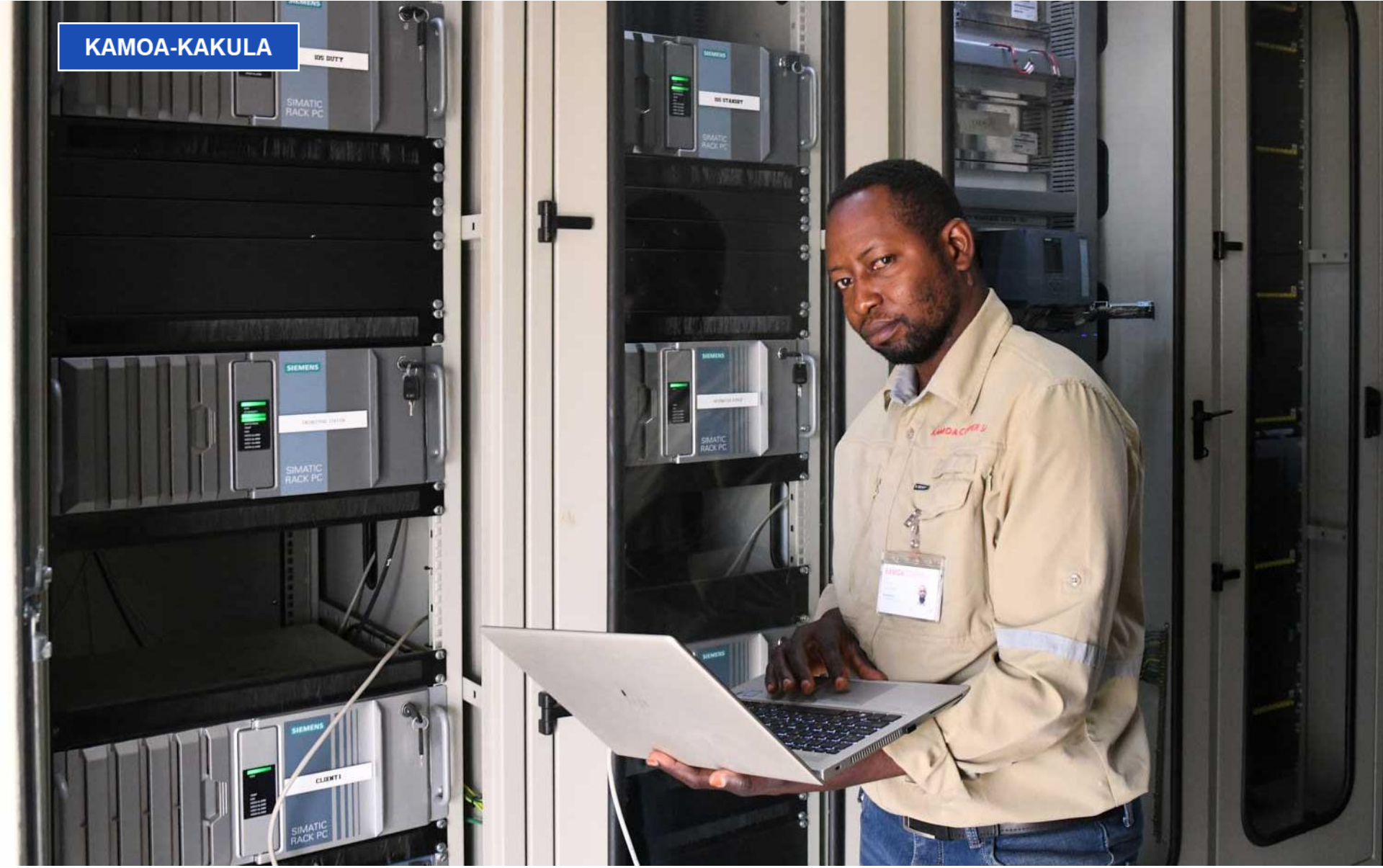
Recently-erected transmission towers for the new, 35-kilometre powerline that will carry high-voltage hydroelectricity from the national grid to Kamoa-Kakula, alongside the new highway providing a direct link between Kamoa-Kakula and the city of Kolwezi; approximately 30 kilometres away.

Stringing of the high-tension wires is underway on the recently-erected transmission towers for the new 35-kilometre powerline that will carry high-voltage hydro-electricity from the national grid to Kamoa-Kakula.

Ismael Kayembe, mine surveyor, plots the daily underground advance on the northern side of the Kakula Mine.

Jacques Muyumba, AEL Mining Services Engineer, programing Kakula's central blasting unit.

Moise Nkulu, mechanic, servicing an Eprioc jumbo drill rig.



Marc Metala, Kamoa IT technician, monitoring Kamoa-Kakula's computers servers.

Overhead view of the Mwadingusha dam and spillway. The upgrading of the Mwadingusha hydro-generation facility, in conjunction with Société nationale d'électricité (SNEL), is an important step in Kamoa-Kakula's goal of producing the world's greenest copper.

Installation of mechanical components on the new auxiliary winder for Platreef's Shaft 1, which is scheduled to be delivered to Platreef later this year. The new winder will be used to assist in equipping the shaft; and thereafter for logistics, shaft examination and auxiliary functions.

Crew members conducting a pre-shift safety meeting in front of Kipushi's Shaft 5 headframe.

Mbiya Kabongo testing air-flow ventilation at Kipushi’s P4 shaft.

Kyungu Kabulo, Instrumentation assistant (left); and Junior Kisula Ngoy, Instrumentation Engineer (right), installing probes and a balance disk on a Grifo Pump at Kipushi's 1,200-metre pumping station.

Applying COVID-19 disinfection in Kipushi’s 1,150-metre-level workshop.

Eliane Ngoie, nurse, inspecting one of Kipushi’s underground first aid kits.

Miners Mbiya kabongo and Mpoyo Lenge (L to R) barring rocks underground.