

Media Update

1 September 2022

President Jokowi Launches 5G Mining in PT Freeport Indonesia, A First in Southeast Asia

Tembagapura – Today, on 1 September, in Tembagapura, Papua, Republic of Indonesia President Joko Widodo (Jokowi) officiated at the launching of 5G Mining technology that is the product of collaboration between PT Freeport Indonesia (PTFI) and PT Telekomunikasi Selular (Telkomsel). Application of 5G Mining technology as part of PTFI's smart mining solution, is the first such 5G technology application in a mining industry in Southeast Asia. The 5G Mining launching was also attended by Minister of State-Owned Enterprises (BUMN) Erick Thohir, Investments Minister/ Head of Investment Coordination Agency BKPM Bahlil Lahadalia, Cabinet Secretary Pramono Anung, and President Director of Telkomsel Hendri Mulya Syam. 5G Mining technology will boost digitalization and transformation of Indonesia's mining industry.

In his address, President Jokowi emphasized the role of technological innovation in facing global competitiveness in various sectors that are increasingly undergoing digitalization, in particular towards advancing the domestic mining industry. "Today, we have demonstrated Indonesia is advancing further through application of 5G smart mining, the first of its kind in Southeast Asia, by PTFI in collaboration with Telkomsel, towards supporting automation and remote control, and increasing safety at work as well as the company's mining productivity. I am confident this technology will lead to PTFI to being increasingly taken into account at the global level, to produce more quality human resources in the mining area globally, and to bring about more contributions for the advancement of the mining industry in Indonesia," **President Joko Widodo** stated.

President Jokowi further said technological interventions, such as artificial intelligence, Internet of Things (IoT), and big data will boost mining operations to become more efficient, modern, as well as safe and sustainable. Through 5G smart mining technology, underground mining is able to be monitored using cameras connected to artificial intelligence, while at the same time preventing and minimizing the risk of accidents at work. "I am also very pleased to hear that underground mining, which covers a highly complex terrain and is remotely controlled, is 99% operated by Indonesian nationals, in particular from Papua," **Presiden Joko Widodo** added.

PTFI has been applying Advanced Digital Technology in its underground mining operation by means of a remote control system using WiFi technology since 2006, with the engagement of third party partners and investment amounting to tens of millions of dollars. In 2021, the BUMN Ministry pushed for collaboration between PTFI and Telkomsel towards application of 5G technology in its mining operation, the first of its kind in Southeast Asia. Then in April 2022, application of 5G technology was successfully demonstrated in the case of remote loader use and the underground safety system in PTFI's underground mine operations. With WiFi-based technology widely used and with significant investment, currently 5G technology application still covers a limited area.

Overall, 5G grids are superior in terms of speed, signal strength, latency, data security, and device intelligence. 5G Mining technology is used in the operation area as well as public areas at PTFI. In the operation area it encompasses the remote testing area and the testing area for 2 loaders in the extraction tunnel at the Grasberg Block Cave (GBC) underground mine. In public areas, it encompasses the underground mining administrative offices and the Tera Shop, the Tembagapura main office buildings and the Senior Guest House, and the Kuala Kencana office buildings. Successful application of 5G technology in these limited areas simultaneously reveals the opportunities for wider use of Telkomsel 5G mining technology, for all mining industry operators in Indonesia.

“Mine development at a depth of more than 1,500 meters below ground surface carries a high degree of safety risk for the company’s employees and other assets, and as such careful planning, appropriate technological application, and capable human resources are needed. PTFI has applied Advanced Digital Technology in its underground mining operation by means of a remote control system using WiFi technology since 2006. Introduction of new 5G technology innovations in PTFI’s mining area will further strengthen PTFI’s strategic position as leader of the mining industry in Indonesia,” **PTFI President Director Tony Wenas** said.

Telkomsel President Director Hendri Mulya Syam said, “Having succeeded as the first digital telecommunications company in Indonesia, Telkomsel is now continuing its commitment to reinforce the ecosystem for utilization of 5G technology, which in this case is realized through support for the first application of 5G Underground Smart Mining technology in PT Freeport Indonesia’s mining operation area.”

On the same occasion, **Minister of State-Owned Enterprises Erick Thohir** disclosed state companies are currently focused on undertaking sustainable transformations in several lines, including innovations to deal with disruptions and meet global challenges. “The mining industry is no less significant. In addition to the downstream movement, we encouraged PTFI and Telkomsel to collaborate in producing total mining industry innovations through application of 5G smart mining technology in PTFI’s mining operation. We will set the success of this collaboration as a benchmark for the MIND ID group, not just in operational activities, but also as a digitalization endeavor, for MIND ID to continue running as an efficient mining holding company,” **Erick** said.

###

ATTACHMENTS

Documentation	Caption
---------------	---------



In Tembagapura, Papua on 1 September today, President Joko Widodo officially launched the first 5G Mining technology in Southeast Asia that is the collaborative product of PT Freeport Indonesia (PTFI) and PT Telekomunikasi Selular (Telkomsel).



In his address President Joko Widodo revealed the innovative role of 5G Mining technology to face global competition and to advance the domestic mining industry.



President Joko Widodo chats with PT Freeport Indonesia President Commissioner Richard C. Adkerson during his visit to the Grasberg Open Mine area.



President Joko Widodo, accompanied by PT Freeport Indonesia President Director Tony Wenas meets with employee representatives at the Grasberg Open Mine area.



President Joko Widodo visiting PT Freeport Indonesia's underground mining control room and observing an operator controlling a loader remotely.

Contact Info:

Riza Pratama

Vice President,
Corporate Communications
PT Freeport Indonesia
0811 8061 228
rpratama@fmi.com

Saki H. Bramono

Vice President
Corporate Communications
Telkomsel
0811
918241Saki_H_Bramono@telkomsel.co.id