

BHP and Microsoft use AI to lift Escondida copper recovery

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MELBOURNE, May 30, 2023 - A new collaboration between BHP and Microsoft has used artificial intelligence and machine learning with the aim of improving copper recovery at the world's largest copper mine.

The use of new digital technology to optimise concentrator performance at BHP's Escondida operation in Chile is expected to improve copper recovery.

BHP Chief Technical Officer Laura Tyler said by augmenting new digital technology capabilities with new ways of working, the team at Escondida is well-positioned to generate more value from an existing resource.

"We expect the next big wave in mining to come from the advanced use of digital technologies. As grades decline at existing copper mines and fewer new economic discoveries are made, next-generation technologies like artificial intelligence, machine learning and data analytics will need to be used to unlock more production and value from our existing mines," she said.

BHP estimates the world would need to double the amount of copper produced over the next 30 years, relative to the past 30, to keep pace with the development of decarbonisation technology such as electric vehicles, offshore wind and solar farms assumed under its 1.5 degree scenario¹.

"We are excited to partner with BHP on this transformative project that demonstrates the power of AI, machine learning and cloud technologies," said John Montgomery, CVP, AI Platform at Microsoft.

By using real-time plant data from the concentrators in combination with AI-based recommendations from Microsoft's Azure platform, the concentrator operators at Escondida will have the ability to adjust operational variables that affect ore processing and grade recovery.

BHP is a top three global producer of copper and has the largest copper endowment of any company globally². BHP has operated Escondida, an open-cut mine located in the Atacama Desert in the Antofagasta Region of northern Chile, for over 30 years.

Escondida produces over one million metric tonnes of copper per annum. The concentrator circuit is responsible for extracting, floating and collecting the copper mineral from crushed and milled ore.

A photo accompanying this announcement is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/125d396c-04fa-40f3-9097-ea07a28432a3>

BHP media contacts

Australia:
Josie Brophy
Mobile: 0417 622 839
Email: josephine.brophy@bhp.com

Chile:
Renata Fernández
Mobile: +56 9 82295357
Email: renata.fernandez@bhp.com

¹ For information about the assumptions, outputs and limitations of this 1.5°C scenario refer to the BHP Climate Change Report 2020 available at bhp.com.

² Based on ownership interest. Peers include: Anglo American, Antofagasta, Codelco, First Quantum Minerals, Freeport, Glencore, Rio Tinto, Southern Copper and Teck. Source peers: Wood Mackenzie Ltd, Q1 2022.

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