MODERN INNOVATIONS IN MINING



3rd Place

Image Winner

2025 SME Media Contest

Honorable

Mention

Image Winner

2025 SME

Media Contest

Honorable

Mention

PARTICIPATE IN THE 2026 SME MEDIA CONTEST:





UNDERGROUND ROBOTICS



Underground mapping with terrestrial and aerial robotics.
Bringing these two approaches together could develop better ways to inspect mine structures and predict safety threats.

1st Place

Image Winner

2025 SME

Media Contest

2nd Place

Image Winner

2025 SME Media Contest

Ohio, USA

Photo: Richard Bishop

HEAVY MACHINERY



Sunset over the mining operations at Antamina, with a majestic haul truck framed beneath the sky and the towering mountains of the Andes.

San Marcos, Ancash, Perú

Photo: Mishell Stephany Fernandez Flores

DRONE TECHNOLOGY



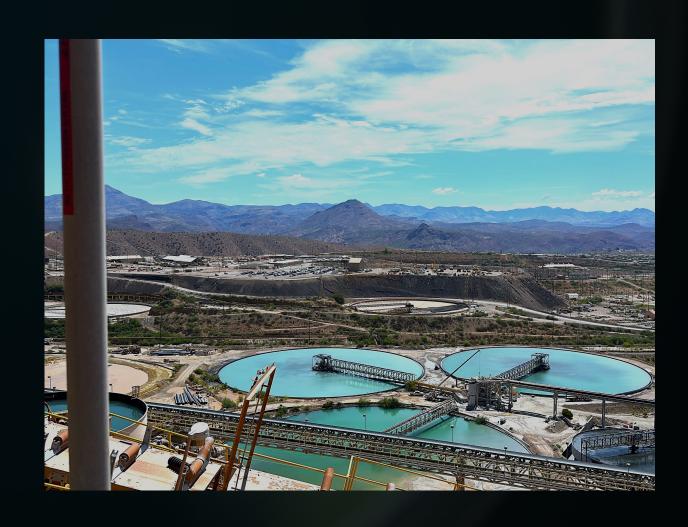
A panoramic view captured by a drone, showcasing the vastness and detail of the mining environment. This highlights the scope and precision of modern mining operations, a testament to how technology broadens our

Newmont Yanacocha Mine, Cajamarca, Perú

perspective on the future.

Photo: Marco Esau Portal Valdivia

MINERAL PROCESSING



Thickeners play a crucial role in mineral processing by concentrating slurry, reducing water content, and optimizing tailings management, making them essential to the efficiency and sustainability of copper extraction operations.

Freeport Morenci Copper Mine, Morenci, Arizona, USA

Photo: Chandima Subasinghe

TAILINGS MANAGEMENT



Exploring underground together:
Ensuring sustainable and innovative

Exploring underground together:
Ensuring sustainable and innovative tailings storage solutions through advanced geotechnical design and a commitment to environmental safety for long-term mine stability and compliance.

Franklin, TN, USA

Photo: Venkata Aneesh Kona