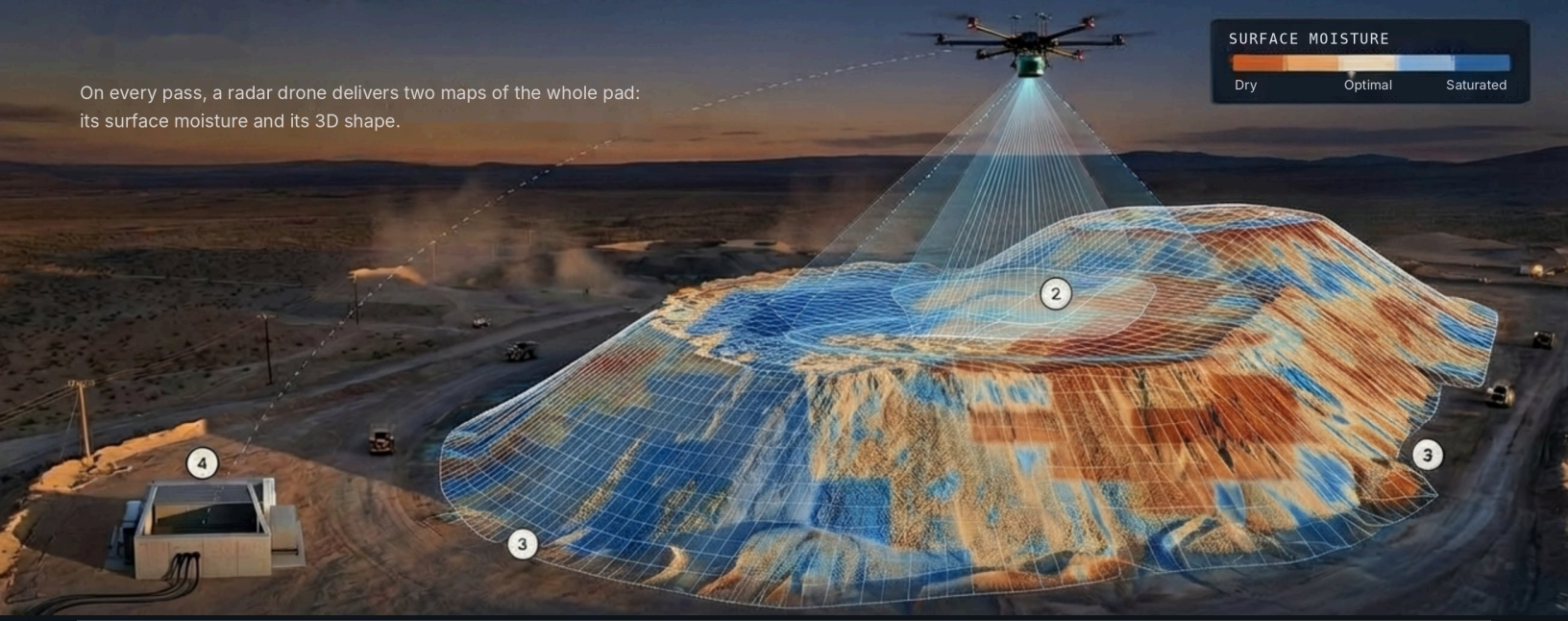
MEDUSA SENSING · MINING

Heap leach moisture, measured from the air.

On every pass, a radar drone delivers two maps of the whole pad: its surface moisture and its 3D shape.



1. **Surface moisture** — Dry and waterlogged sectors, to correct irrigation in time.
2. **3D shape of the pad** — Comparing passes measures settlement and deformation.
3. **Side slopes** — Moisture on the faces, including build-up at the toe.
4. **Automatic nest** — Scheduled flights from a fixed container.

WORKS AT NIGHT AND IN DUST · MEASURES THE SURFACE, NOT THE INTERIOR · PILOT ON ONE MODULE: 8 TO 12 WEEKS

THE PROBLEM

Uneven irrigation leaves ore unleached, and saturated zones affect stability. Piezometers and geophysics provide data only at points or in campaigns.

In 2025, 21% of Chilean copper was produced by leaching and electrowinning (Cochilco). With copper at US$ 5.95 per pound (2026 projection), recovering 1% more copper at a 20,000 t/year operation is worth about US$ 2.6 million a year. This is an illustrative calculation, not a promise.

MATURITY

Not yet measured on site. The pilot calibrates the measurement against the site's own ore: at a minimum, maps of where the pad dries out or ponds; as a goal, moisture as a percentage. The shape measurement does not depend on that calibration.

REFERENCE FIGURES

Frequency	From one pass a day to one per shift
Ground cell	Around one metre or less, flying at 30 m (design target)
Conditions	Works at night and in dust, where cameras degrade
Scope	Measures the surface, not the interior: complements piezometers and geophysics
Pilot	One pad module, 8 to 12 weeks with calibration

THE ASK

A bounded pilot on one pad module, with access to the site and to the operation's sampling data, and funding defined jointly. No purchase commitment or exclusivity.

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