

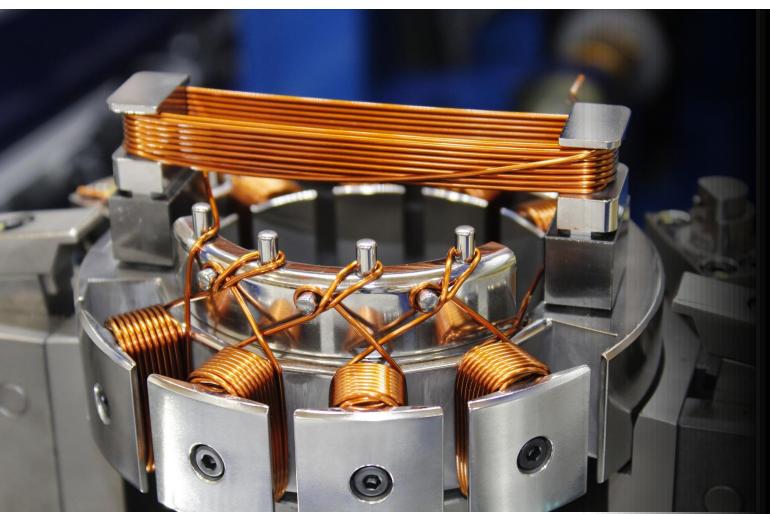


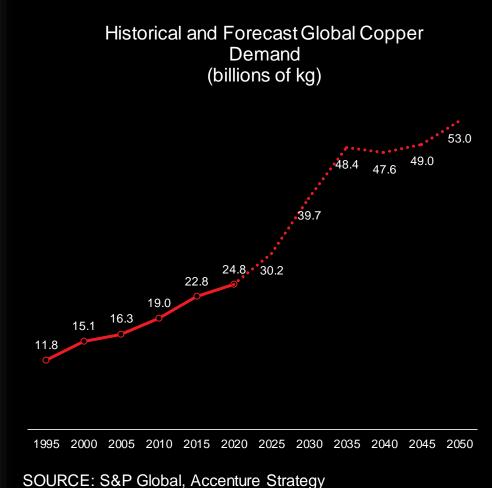
SENSOR TECHNOLOGY FOR SUSTAINABLE COPPER PRODUCTION

CHRIS BEAL | NEXTORE CEO

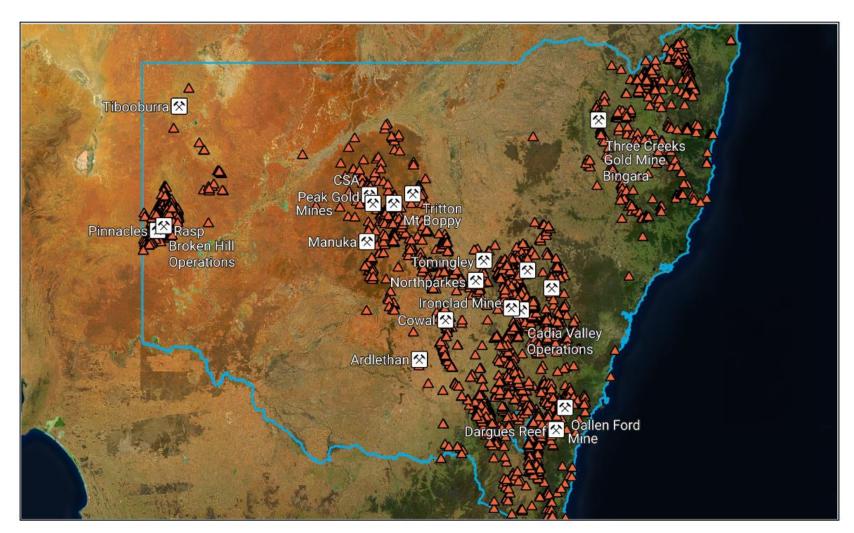
Resources, Energy and Industry Innovation Forum

Electrification and technology is driving up copper demand





NSW is a significant copper producer, and has been for a long time





Disclaimer

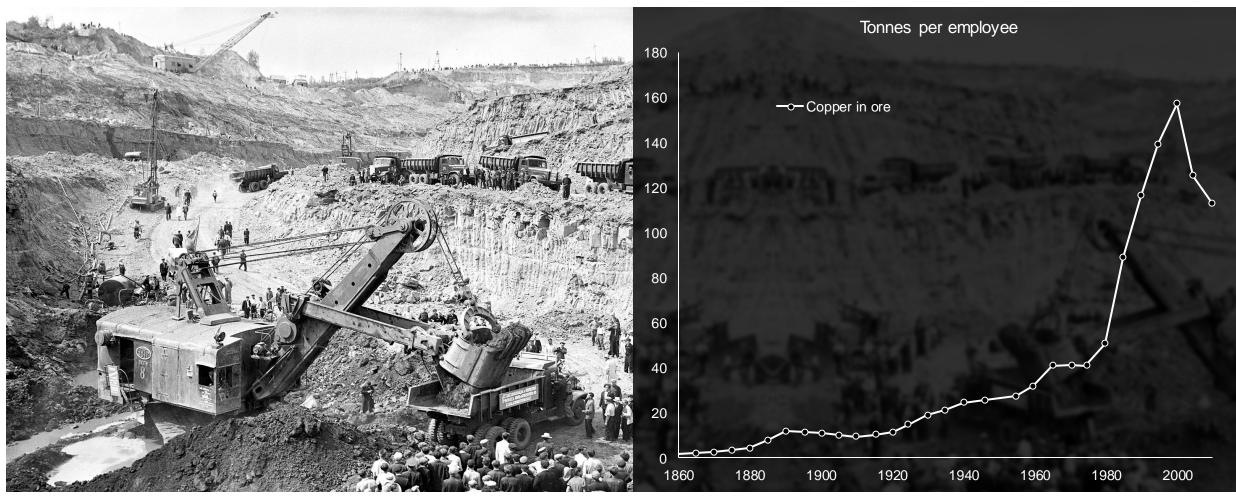
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State of NSW through Department of Planning & Environment, 2019. Information in this publication is
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Mining consumes electricity, water, and fuel



Mining previously relied on economies of scale, but it no longer can

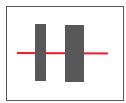


Mikhailovskoye iron mine (~1960) PHOTO: https://kpravda.ru/

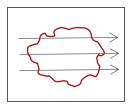
Humphreys, D. Mining productivity and the fourth industrial revolution. Miner Econ 33, 115–125 (2020).

Sensing using magnetic resonance

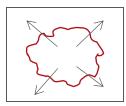




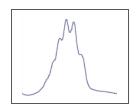
RF Pulse



Sample Penetration



Echo Response



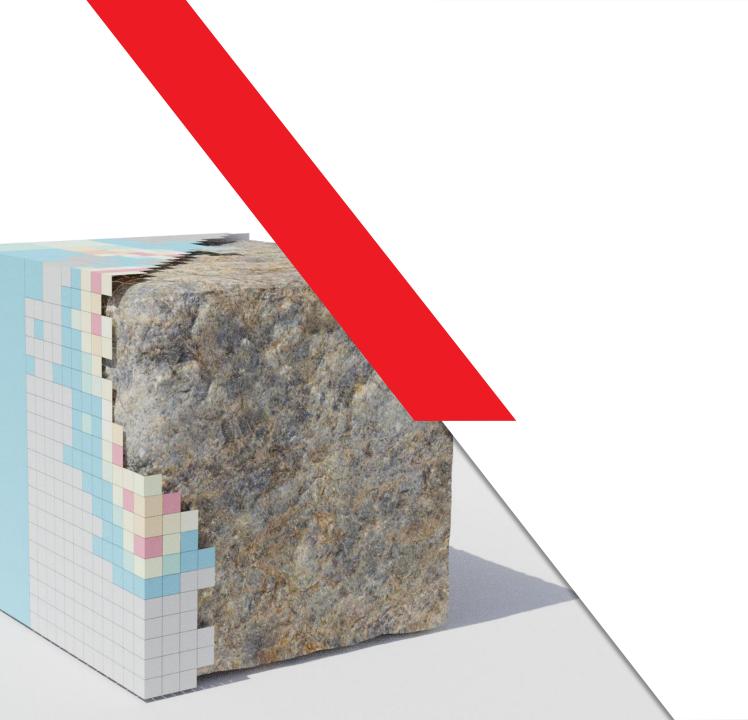
Measurement

Bulk sorting is a way of identifying and eliminating waste from downstream processes



NextOre's sensors are growing each year and there are more exciting things to come







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