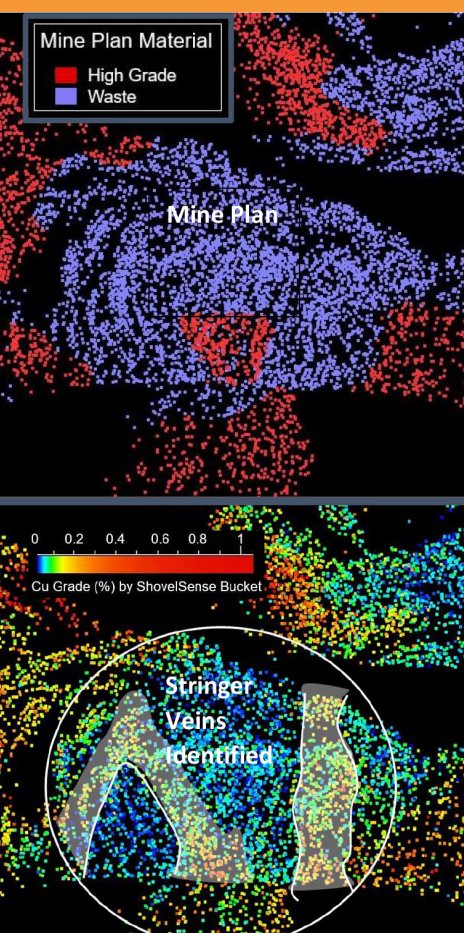


ShovelSense®

Game changing technology to improve the profitability and sustainability of your mine



The at the face advantage

The MineSense Solution consists of proprietary hardware, software, and AI algorithms that measure ore grade in real-time

- ❖ ShovelSense generates thousands of data points that have never been available before, achieving real-time operational impact and drastically improved continuous characterization of the mine's ore body.
- ❖ ShovelSense collects ore characterization data in every bucket to unlock the profitability of your mine operations and extends mine life.
- ❖ Real-time ore characterization provides superior actionable data to enable automated smart truck diversions greatly reducing both ore losses and dilution.
- ❖ ShovelSense is installed on all mobile equipment typically used either on the surface or underground - cable shovels, front end loaders, hydraulics shovels, and scoops/LHDs.
- ❖ The MineSense Solution is the only one that works with run-of-mine (ROM) material at the face and at any mine throughput. This maximizes the value of ore and waste classification where the heterogeneity is greatest, at the extraction face.

Real-time data collection at the face



Data aggregation and material classification



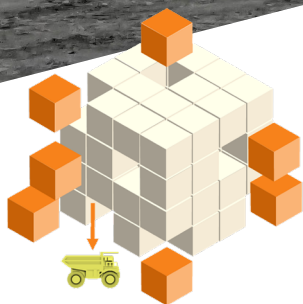
Data visualization and modeling

“The ShovelSense results are spectacular!”

Victor Araya
Superintendent Geology
Teck Carmen de Andacollo (CDA)



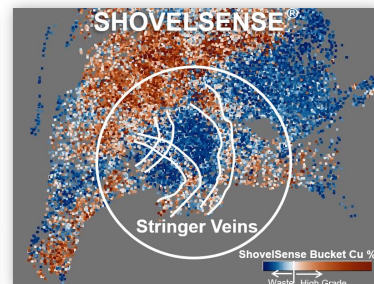
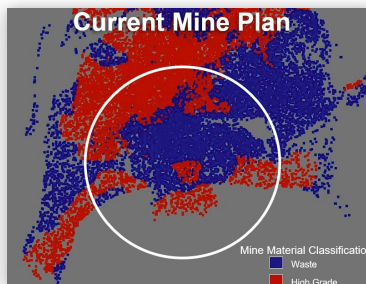
Advantage at the mine face



Maximum heterogeneity
at the mine face
to extract ore from waste
and waste from ore



ShovelSense®
real-time ore characterization
in each bucket enables ore
sorting at extraction face



Enhanced resolution and increased ore body
knowledge provide unmatched actionable
insights to maximize profitability



Automated smart truck
diversions are enabled
to instantly route trucks
to mill, stockpile
or waste dump



BeltSense®
compliments ShovelSense®
to provide enhanced
ore control at the mill



Stockpiles managed and
optimized with informed
campaign and blending



Sustainable mining using
less energy and water



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MineSense is a pioneer in digital mining solutions, supplying real-time, sensor- based ore sorting for mines. Our signature solution is ShovelSense, a robust sensor installed on mining equipment to scan and measure the grade of the material in every shovel and bucket. The increased real-time visibility of your orebody provided by ShovelSense drives improvements in your mine's efficiency, profitability and sustainability.



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