CoreSmart

innovation in drill core interpretation

THE CoreSmart Predictor IN MINING OPERATIONS

by G.E.O.S. & dimap

The new tool for real-time metal grade measurement

Predict your metal contents with more than 85% accuracy during your daily operations

Potential for providing timely and cost effective grades for most metals using hyperspectral technology in your

- blast and forward exploration drill campaigns
- ore sorting applications/conveyor belt
- grade identification directly at the mine face

High quality assessment of metal contents with the Artificial Intelligence of our **CoreSmart Predictor**

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joint development

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The **CoreSmart Predictor** is a smart piece of Artificial Intelligence that has been trained on more than 1300 km hyperspectral core scan data and 130000 geochemical analyses.

Metal	Threshold (ppm), if not marked different	Accuracy of prediction in % checked against independend samples
Ag	2,5	81
Au	0,8	85
Fe	36,50%	95
Cu	3,90%	84
U	10,0	89
Ni	22,0	93
Pb	5,0	91
Zn	68,0	92
Sb	0,3	94
As	6,0	93
Bi	0,1	95

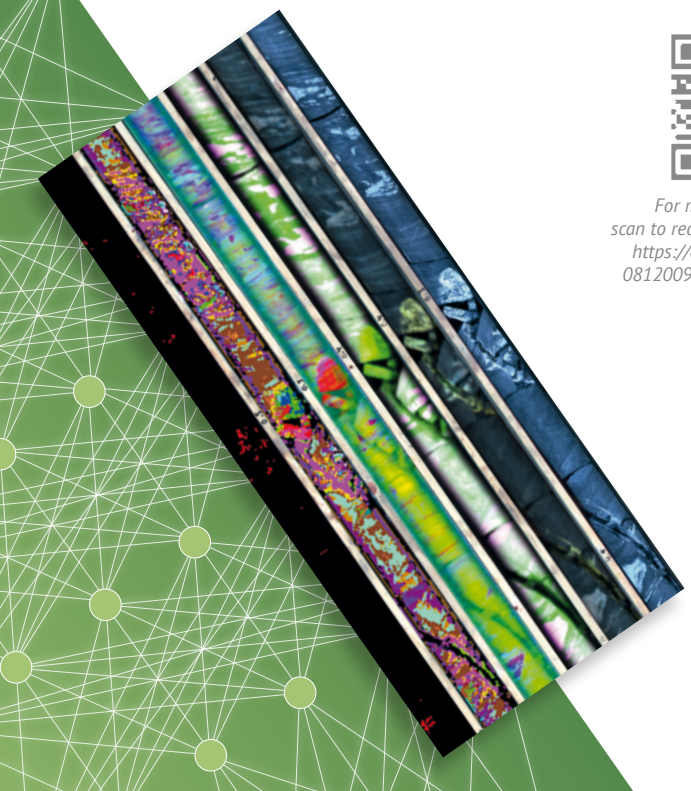
Achieved accuracy of the CoreSmart Predictor tested on independent assays for the metals at this stage available for predictions on hyperspectrally drilled core and rock samples.

This AI is an especially developed Neural Network that processes hyperspectral scan data (VNIR/SWIR and/or TIR) and achieves an accuracy for metal grades between 85% and 95%.

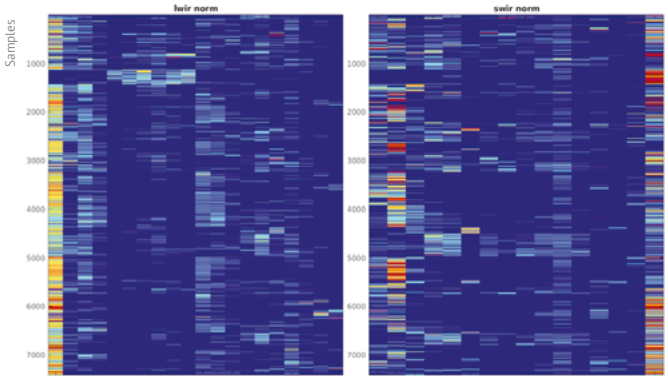
During development it has been tested on independent samples for the most important industrial metals.

The CoreSmart Predictor includes:

- A validated and quality assured database containing hyperspectral scan data of more than 3000 drill holes and 700.000 assays from all Australian states and beyond
- CoreSmart predictions for all segments of publicly available hyperspectral scanned drill holes in Australia
- Tools for importing scanned drill core data from different sources



For more information scan to read the full article https://doi.org/10.1080/08120099.2022.2017344



Simulated class (ore grade) response of Copper in relations to hyperspectral minerals list

„In summary, the authors have compiled a very interesting and useful data set and evaluated the potential for predicting geochemical parameters from hyperspectrally-derived mineralogy“

Carsten Laukamp (CSIRO)

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