CoreSmart

innovation in drill core interpretation

THE CoreSmart Predictor IN EXPLORATION

by G.E.O.S. & dimap

The unmissable tool to speed-up exploration and save on costs at the same time

Predict your metal grades with more than 85-95% accuracy even before your geochemical analyses

The **CoreSmart Predictor** provides a method for assessment of the grades for most metals in

- existing drill core archives
- cores from ongoing drill campaigns (diamond drilling, RC or percussion drills)
- material from surface sampling
- hyperspectral data from drone and airborne missions

Drill Core Scanning • Mineral Mapping and metal contents using the Artificial Intelligence of our **CoreSmart predictor**

Dr. Holger Eichstaedt
Dimap Explorations Pty Ltd, CEO
531 Hay Street | Subiaco WA 6008
Phone: +61 8 9380 8332
Mobile: +61 484 116 167
he@dimap.com.au

Dr. René Kahnt
G.E.O.S Ingenieurgesellschaft mbH
Phone: +49 3731 369 407
Mobile: +49 160 9789 3866
r.kahnt@geosfreiberg

www.coresmart.services

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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

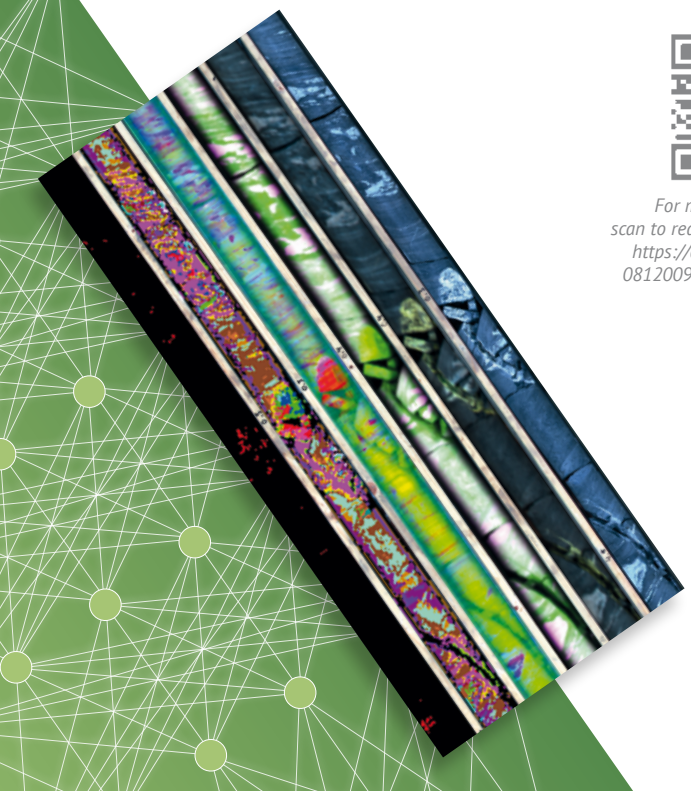
Achieved accuracy of the CoreSmart Predictor tested on independent assays for the metals at this stage available for predictions on hyperspectrally drilled core and rock samples.

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%.

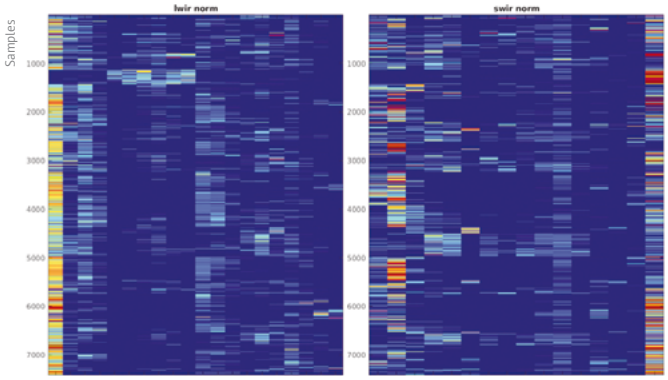
During development it has been tested on independent samples for the most important industrial metals.

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)

Contact
Dr. Holger Eichstaedt

Website
www.coresmart.services