

# Cascade Copper Announces Collaboration With Blockware Technologies To Develop Field Level Predictive Modelling

04.06.2025 | [The Newswire](#)

## ***Artificial Intelligence application will lead to a more rapid path to discovery***

- Cascade and Blockware will utilize field acquired data to create predictive mapping in real time
- Field data will be collected, verified, then sent to the cloud to be modelled using ML and AI
- Modelling will use all previous and new exploration data to predict where the best mineralization would be expected
- Predictive map is sent back to the field within minutes of modelling for immediate follow up
- Real-time analysis and modelling will speed up the discovery of mineral resources

[Cascade Copper Corp.](#) (CSE: "CASC") ("Cascade" or the "Corporation") is pleased to announce that it is in collaboration with Blockware Technologies Ltd. of Calgary, Alberta to develop and utilize a field-based data collection and predictive modelling system to enhance the ability and increase the probability of significant mineral discoveries. The system uses previous exploration data as well as newly acquired in-the-field data to model and predict where more mineralization could be found, all in a matter of minutes.

Jeffrey Ackert, President and CEO for Cascade Copper comments "This technology and application is a real game changer for the junior mineral explorer. We will be able to react immediately to any new data that has been collected and modelled, instead of waiting weeks or months for analysis and then interpretation and then deploy back to the field for follow-up. It will save us time and money, so we are quite anxious to start using this in the field this year."

<https://www.thenewswire.com/data/tnw/clients/img/e8ee7cac5708234d2201bd3a224396e4.png>

Figure 1: Heat Map showing Predicted Copper Values in Plan View.

## **Procedure**

Blockware Technology assimilates all previous exploration data into a database. This includes airborne magnetic data, airborne EM data, LiDAR, Satellite imagery as well as ground-sourced data such as soils geochemistry, rock sampling, induced polarization (IP) data, hyperspectral rock/soil data and geology. The machine learning algorithm then performs a multidimensional comparison within the dataset to find associations with positive correlations to the minerals or metals of interest.

When new data is acquired in the field – for example soil or rock sampling data that has been analyzed by portable analytical equipment (pXRF, LIBS, SWiR, and/or NiR) an in-field QA/QC protocol is performed. If the quality criteria are passed, the resulting data is then sent to the project's cloud database for assimilation and modelling. The modelling is done immediately, validated and a predictive update is then sent back to the field for follow-up.

Andrew Hillson, President of Blockware Technologies adds, "This collaboration with Cascade is helping our team at Blockware step through the challenges that exploration companies encounter, from data collection, to validation, to a timely interpretation with all available site information. Of great interest to us are the massive improvement in timelines, the ability of crews to make informed decisions in the field and our software's ability to detect valuable anomalies within the large amounts of site data we process. The proliferation of portable analysis equipment and the advancement of AI and machine learning, especially related to the mineral industry, has created the perfect situation for this new solution."

Blockware has developed a software suite that collects data and predicts the best areas for more mineralization. FieldScanONETM is a software module that collects data from a variety of portable

instruments while also providing built-in QA/QC processes. It has been noted that, in the past, field crews may not be as diligent as necessary in calibrating and using equipment properly, which may result in corrupted or suspect data. FieldScanONETM software, which runs on the Windows platform, performs a QA/QC regimen as data is collected to ensure its accuracy and precision. Collected data is then sent to the cloud, where the SUBTERROTm service ingests and processes it, using AI to find associations and generate predictions as to where to find more target minerals.

Currently, Blockware has developed the SUBTERROTm service to manage surface data but will unveil a 3D version in the near future that will incorporate inversion modelled geophysics and drill hole data into the surface-derived data.

### **Implications for Cascade**

The collaborative effort is extremely beneficial as Cascade has been able to use this cutting edge technology in Beta form to advance a number of its projects while testing the applications for Blockware. The exercise has focused on two projects so far and has assimilated the datasets into SUBTERROTm. Results of the predictive modelling show priority areas to follow up on this field season. Once the field crews are deployed, FieldScanONETM software will be used in conjunction with a suite of portable instruments.

The Qualified Person responsible for the technical content of this press release is Shannon Baird, P.Geo, Vice President of Exploration for Cascade Copper Corp.

### **About Cascade Copper**

Cascade Copper is an exploration stage natural resource company engaged in the evaluation, acquisition, and exploration of copper based mineral resource properties. Cascade is focused on copper and gold, porphyry and epithermal deposits in British Columbia and VMS and BIF style deposits in Ontario. Cascade's priority is to conduct exploration using modern technology that includes 3D inversion modelling of geophysics, LiDAR derived elevation models and AI enhanced predictive modelling from all historic and modern data inputs. Drilling is planned on several of its copper projects this year. Cascade has five projects, including the Centrefire Copper Project, the Copper Plateau Copper-Moly Project, Fire Mountain Copper-Gold Project, the Bendor Gold Project, and the Rogers Creek Copper-Gold Project.

### **About Blockware Technologies**

Blockware Technologies is driven by the positive potential of AI and the next generation of portable, cost-effective instrumentation and sensors. Blockware collaborates with area experts in targeted sectors, developing applications that bring innovative and highly cost-effective solutions to the market. Blockware has developed a number of solutions for predicting target substances based on a wide variety of large geospatial datasets. FieldScanONETM has been developed by Blockware in collaboration with Geospectra Mining Technologies in Quebec.

### **FOR FURTHER INFORMATION, PLEASE CONTACT:**

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Die URL für diesen Artikel lautet:

<https://www.minenportal.de/artikel/566730--Cascade-Copper-Announces-Collaboration-With-Blockware-Technologies-To-Develop-Field-Level-Predictive-Modeling>

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