VRIFY

Powering Smarter Gold Discovery with AI at Westgold Resources

VRIFY is transforming mineral exploration with DORA, an AI geoscience software for prospectivity assessment and target prioritization.

At VRIFY, we created DORA to help mining and mineral exploration companies turn multivariate datasets into actionable insights. Guided by geoscientific expertise and powered by proprietary deep learning models, the software supports teams in evaluating and advancing opportunities with greater efficiency and objectivity through transparent, interpretable results.

BENEFITS

Geoscience-Driven AI Backed by Experts

Created by geoscientists, AI specialists, and developers with deep industry experience and extensive field practice, DORA generates actionable insights, including prospectivity maps, by integrating existing information with data derived from a proprietary augmentation process. Coupled with geoscientific input from both your own technical team and VRIFY's, DORA helps shorten cycles between analytical modelling and ground validation.

Strategic Mineral Exploration

DORA's 11 Foundation Models are deep learning models pretrained on large mineral-system datasets to rapidly identify areas with high potential for mineralization, reducing exploration risk and accelerating workflows from months to days. This suite comprises 10 deposit-specific models for projects with well-constrained deposit types and one Deposit-Agnostic Model that accommodates a wide range of common mineralization styles. A Custom Model can also be built from a specific project's own available exploration data for uncertain or atypical deposit systems.

Powerful, Continuously Improving AI Models and Database

DORA is built on AI models that are continuously refined using VRIFY's database of curated, anonymized exploration data. While individual project analyses rely on project-specific and, where available, public-domain data, this underlying foundation enables DORA to prepare exploration information into an AI-ready data stack that supports more efficient prospectivity mapping and faster exploration workflows.

Intuitively Designed Interface

Designed as an intuitive and iterative web-based software, DORA puts AI directly into the hands of geoscientists. You can adjust data inputs to test geological hypotheses over iterative runs, refining exploration targets as new information is incorporated. The result is a seamless integration of AI and human intelligence.

HOW IT WORKS

Data Ingestion & Compilation

VRIFY's geoscience, AI, and engineering experts standardize and unify publicly available information and project-specific data from current and past programs — like geochemistry, geophysics, geological interpretation, field measurements, drill assays, and satellite imagery. This step ensures interoperability across the area of interest, and beyond. Capable of integrating nearly all types of digital datasets, DORA allows analysis to begin with whatever data is available, even when coverage is limited, while additional information can be seamlessly incorporated later to strengthen predictions.

Data Enhancement & Augmentation

The data is enhanced using standard signal-processing techniques to clarify signals and reduce noise. Selected datasets can then be processed through DORA's Data Augmentation Modules that generate additional layers to expand the information available for analysis. The derived datasets are combined with the original grids to form an exploration data stack for modelling.

Initial Prediction Review & Refinement

Your exploration team then reviews the initial modelling results against their asset and project knowledge to contextualize predictions within the local geology. Parameters can then be iteratively adjusted and simulations rerun to test assumptions and assess the effects of different inputs. Throughout this process, VRIFY's Technical Team is available to help maximize the value of DORA's AI insights.

Target Definition & Exploration Planning

With refined predictions, your team can define actionable next steps with greater confidence, from prioritizing targets to identifying where additional exploration data collection may improve understanding or add value. This data-driven approach streamlines exploration planning, mitigating uncertainty and supporting informed decision-making.

Iteration & Optimization

As a cloud-based software, DORA enables your team to continuously refine results by adjusting parameters and integrating new data. When significant changes are identified in the data, models are retrained so outputs reflect the latest information. This process supports ongoing optimization of exploration outcomes as projects evolve, allowing your team to adapt strategies in near real time.

Discovery Visualization & Communication

VRIFY Present is a separate, interactive presentation software designed for visualizing exploration results and 3D targets in a clear, immersive format. It provides a compelling way to showcase progress and potential to stakeholders, from investors to regulators, supporting alignment and informed discussion.

READY TO UNLOCK THE NEXT ERA OF MINERAL EXPLORATION?

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