

Accelerating geological exploration using advanced technologies such as AI

Robin Fell, Goldcorp, Vancouver, Canada

Geologists spend roughly 80% of their time looking for and manipulating data, versus analyzing and interpreting data based on knowledge and experience. As data sets continue to grow in size and complexity, not only does big data provide new challenges, but the complexity within the data tools, and the lack of harmonization between them, adds to the difficulty. Goldcorp has spent the last year advancing geological exploration at their Red Lake Mine by utilizing technological advancements in AI, machine-learning and the cloud to harness the insights buried in 80 years of data. Their work to date enables geologists to make 3D queries across 140 block models, and across an entire drill base, to vastly improve data quality and enable geologists to identify and predict patterns and geological models with more certainty. The results are leading geologists to new levels of certainty in ore body discovery as they capitalize on advanced technologies to fully leverage data assets.