

SENSORE & IBM COLLABORATE TO BRING AI INSIGHTS TO MINERAL EXPLORATION

SensOre Ltd (**SensOre**) and IBM today announced they are collaborating to bring the power of Artificial Intelligence (**AI**) to the entire spectrum of mineral exploration activities.

“Together IBM and SensOre can provide an interface that works for both resource and exploration geologists making use of data that in many cases is underutilised. This joint initiative was developed based on the two companies’ strong belief that AI will provide the next level of innovation in near-mine and regional exploration. We look forward to bringing this to all our clients,” said Richard Taylor for SensOre.

Leveraging mutual strengths, the two companies will align the value proposition to combine Exploration with IBM Watson™ Platform and SensOre’s Data Cube and Discriminant Predictive Targeting (DPT®) technology, while maintaining flexibility and freedom of action for both parties to work with clients individually or join forces where it makes sense to do so.

IBM Exploration with Watson Background

Massive quantities of siloed geological and geophysical data are used for mineral exploration. Geologists spend up to 80% of their time searching for, cleaning and preparing data, and can only examine a fraction of a single dataset at a time.

Additionally, target identification and prioritisation are expensive, time consuming and risky. The sheer volume of data to be considered is more than a human can reasonably consume and can be affected by human bias. Understanding of the geological setting requires extensive experience and education, and changes from person to person.

David Dickson, IBM’s global leader for Chemicals, Petroleum, & Industrial Products’ Digital Transformation & Mining, said “We knew to add value we needed to create a new way of working across the geological enquiry process, while also maximising the return on miners’ existing investments in data and technology. We then imagined; what if miners could predict with confidence where to invest effort and money to discover more ore? We knew this challenge would require the integration and examination of massive amounts of differential and complex data, the most sophisticated AI platform, and critically the combined knowhow of a team of researchers, technologists, geologists and miners. So, we went to work with our clients and co-created Exploration with IBM Watson. Now, with SensOre’s DPT® technology, we complete the picture”.

The IBM Exploration with Watson Platform ingests a multitude of geological and geophysical data in its native format, establishes spatial relationships between elements and allows powerful first-of-a-kind exploration activities.

IBM’s Exploration with Watson Platform has created a predictive modelling framework for mineralisation that is largely data driven; however, the tribal knowledge embedded in the data representation allows for domain knowledge to be represented in the model construction. This enables the creation of powerful predictive models at high resolution for varying grades and search radii that are continually retrained with the latest data from the core shack.

The platform has proven to be 33x faster than current methods in running complex geological queries, and has generated positive predictions, so allowing geologists to get the answers they need faster.

SensOre Background

SensOre aims to become the top performing minerals targeting company in the world through the deployment of AI and machine learning technologies, specifically its Discriminant Predictive Targeting workflow. SensOre collects all available geological information in a terrane and places it in a multi-dimensional hypercube or Data Cube. SensOre’s big data approach allows DPT® predictive analytics to accurately predict known endowment and generate targets for further discovery.

SensOre, through its wholly-owned subsidiary Yilgarn Exploration Ventures Pty Ltd (**YEV**), has more than 600km² of wholly-owned tenements in the Yilgarn. The tenements were identified using a ‘Data-Cube’ containing over 1,800 data layers and +14 billion discrete data points. SensOre has raised funds to drill a number of these anomalies in 2020. The holdings include the North Darlot Joint-Venture near Red Mining’s (ASX:RED) Darlot exploration area and the Desdemona North Earn-in with Kin Mining NL (ASX: KIN), which SensOre also concluded through YEV and was announced on 20 December 2019. YEV may earn 75% in Desdemona North by funding \$3.5 million in expenditure.

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