

# DATA ANALYTICS PROJECT FOR MINING COMPANY ENSURES BETTER DATA ORGANIZATION, VISIBILITY AND SAFETY.



82.5 km



## Client

Aura Minerals is a medium-sized multinational gold and copper producer. It has a presence in 3 countries in the Americas and over 70 years in business.

In the first quarter of 2022, Aura produced 61,041 GEO (gold equivalent ounces), with a net revenue of more than USD 112 million and net profit of USD 39 million.



## 360° Mining

An internal program focusing on community, employees and company. Focusing on sustainability, safety, responsibility and innovation.

# Business Challenge



ENSURE CAPACITY OF CLOUD SOLUTIONS: SPACE TO ACCOMMODATE NEW OPERATIONS, BUSINESS UNITS AND GEOGRAPHIC UNITS.



CENTRALIZE DATA AND INFORMATION FROM SEVERAL SOURCES FOR ANALYSIS AT ALL LEVELS OF THE CORPORATE HIERARCHY.



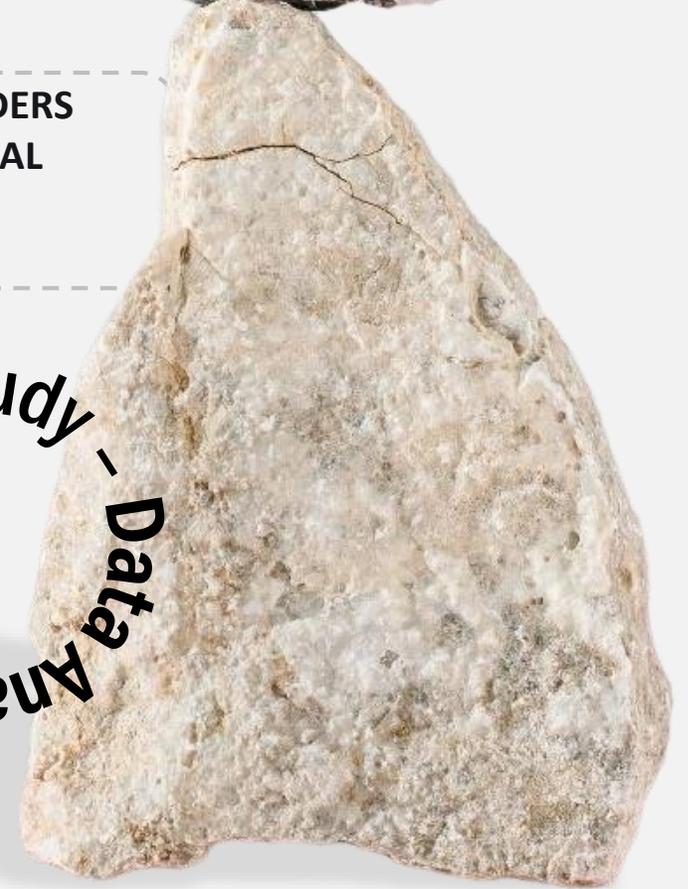
GUIDE PROJECT LEADERS THROUGH THE DIGITAL TRANSFORMATION JOURNEY.



REDUCE HUMAN INTERFERENCE IN THE DATA - RATIONALIZE HANDLING, CALCULATIONS AND INFORMATION FLOWS.



CREATE A SINGLE VIEW OF OPERATIONAL INDICATORS, DIGITIZING AND OPTIMIZING MANUAL PROCESSES.



Case Study - Data Analytics

# Technical Challenge

A Data Vulnerability Index (DVI) was developed to quantify the level of vulnerability of each data point. The DVI evaluates the entire data journey from data generation to the final KPI calculation. Each stage was given a numeric score: the lower the score, the more manual human contact was involved with the interaction.

After calculating the DVI and completing other analyses, BRQ proposed a unique solution, with three axes for action:



**MULTIFUNCTIONAL SQUAD**



**AZURE TECHNOLOGY**



**EXPERTS IN POWER BI DATA DASHBOARDS**



## Impact and Results

- ➔ **1** **Data Lake – tens of millions of operational records** now available in the cloud, and a growing monthly flow of records – around 4 million records per month.
- ➔ **2** Reduced data vulnerability and **increasingly automated information** for KPIs reported from 3 business units.
- ➔ **3** Enabling **faster decision-making**, with **20 views and reports** delivered and available for more than 120 users.
- ➔ **4** **Reduction** in data reporting periods.

- ➔ **5** Increased **information transparency and security** by means of data governance.
- ➔ **6** **50+ people impacted**, accelerating a data-driven culture and enabling Analytics initiatives.

“The Data Journey Project, which is still in development, has already brought gains to the company, above all by creating a single centralized information source in the cloud that contains historic records and updated data, available daily. In addition, with the dashboard, starting from a single screen, it’s possible to visualize strategic data for the business such as, for example, gold production, among other data. We have already seen improved intelligence in our processes and we remain committed to this digital transformation journey, part of our innovation pillar in the 360° Mining culture.”

***Karollyne Luz, planning and innovation manager***



# FACING A SIMILAR CHALLENGE? CHAT WITH ONE OF OUR SPECIALISTS

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