

INCREASED SPATIAL PLAN COMPLIANCE USING TIMINING DELTA

Mine:

Compañía Minera Antucoya

Owner:Antofagasta Minerals
Marubeni Corporation**Location:**

Antofagasta Region, Chile

Production:**COPPER** 72kton (2018)**OVERVIEW**

At Minera Antucoya, compliance with the mining sequence is a key operational indicator and is closely monitored by the company's leadership. During the first half of 2019 Minera Antucoya's main goal was to increase compliance. However, engineers and planners were required to spend long hours performing the calculations and producing the reports, which made getting the information at the desired frequency difficult.

SOLUTION

In order to deal with this issue, Minera Antucoya implemented Timing Delta. There by:

- Minera Antucoya users were trained in the use of the software.
- The calculation of the plan's spatial compliance indicator was automated.
- Monthly and weekly spatial compliance calculations were performed.

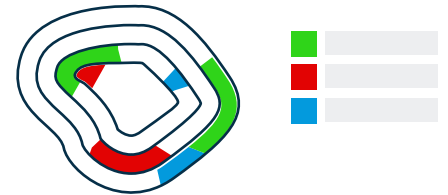
IMPACT

Information more readily available and the capability to manage the indicator have resulted in a 20% + improvement in spatial compliance with the mining plan on a monthly basis. Additional benefits are as follows:

- Engineers performing measurement and conciliation tasks now save up to one day of work per month, hence devoting more time to analytical work.
- The calculation no longer depends on the judgment of the engineer on duty.
- Thanks to the technology, plan compliance results can be monitored on a weekly basis, hence avoiding deviations at the end of the month.

"Geometric compliance with the mining sequence is a high-impact variable for the business. The need for quick measurement and frequent control led us to develop a tool that allows us to consolidate the measurement of several indicators by means of this indicator. Going from hours of to a few minutes of work"

- Javier Morales Senior Planner, Minera Antucoya



**FROM HOURS
TO MINUTES OF WORK**



IMPROVEMENTS OVER **20%**
IN SPATIAL COMPLIANCE
OF THE MINING PLAN
ON A MONTHLY BASIS