

Operational Efficiency



Client: Newmont Goldcorp, Peñasquito mine, Mexico



Project

Shiftchange process improvement

Business Need

High deviation in loads between different shifts during the shiftchange, lack of consistent operating results. Lack of information and control over the shiftchange process, lack of ownership on supervisory level and lack of understanding of the key levers.

Solution

After discussions with site engineering, operations and dispatch personnel, Mining Art created a set of tools to find potential opportunities for the improvement.

Major KPI for shiftchange efficiency identified - percentage of the completed cycles during 1st and 12th hours vs 2nd and 11th hours of a shift respectively, aiming to achieve consistent 90% factor (or better).

Activities completed:

Dispatch enhancements:

- ▶ automatic prediction for the most efficient parkup location for every truck;
- ▶ optimized assignments during the shiftchange to maximize equipment utilization;
- ▶ real-time utilities for dispatch team to configure and control the process.

Automated Line Up form to improve next shift staff allocation.

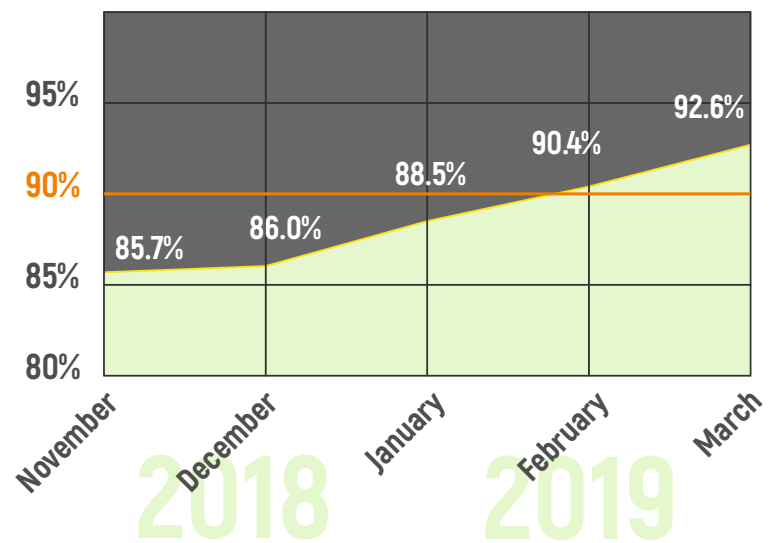
In-seat training with dispatch team to ensure optimal usage of the new tools.

BI tools creation to control KPIs in real-time and historically.

Assignment of defined supervisory staff responsible for the compliance to the KPI and ensuring short-interval control is provided, heavily using the BI tools.

Results

Efficiency of the shiftchange KPI increased by 6.9% (+1,15 % to overall shift production).



Victor Vdovin,

Mine Manager, Peñasquito mine

- The results of the project are very encouraging and exciting. Mining Art made a great job of developing the tools, training the personnel and working together with Peñasquito team to achieve the goal. By providing consistency of the results and empowering field supervisory team, we have moved the efficiency of equipment at the site to the next level.