



COSOL CASE STUDY

Ok Tedi Mining Limited Papua New Guinea

Copper, Gold & Silver Mine

ENTERPRISE ASSET MANAGEMENT

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Background

Ok Tedi Mining Limited (OTML) is a State-owned company that operates an open-pit copper, gold and silver mine located in the Star Mountains of Western Province, Papua New Guinea (PNG). It also has a representative office in Port Moresby, PNG and a marketing and logistics facility in Brisbane, Australia.

In addition to the Mine and Mill, OTML also operates

- The township of Tabubil
- Power Station (hydroelectric & diesel fired gas turbines)
- 157km pipeline
- Dredging operation at Bige
- Drying Plant & Port at Kiunga

The company's success is measured on its economic performance, human resource development programmes, zero harm safety performance, and the management and mitigation of its environmental impacts.

Challenges

OTML originally implemented SAP in 2015. Whilst the guiding principles of the program was to leverage standard functionality, the Environment, Health, Safety and Management (EHSM) component was significantly customised and ultimately did not support the business process and operational requirements for OTML.

With a number of challenges around technical and functional capability, OTML sought a partner with mining and business systems capability to re-implement the solution.

COSOL Solution

COSOL reviewed OTML's current system with two approaches in mind, redesign or re-implementation. Taking into consideration the OTML audit findings, information gathered from the current system, and feedback from the end-user base, COSOL recommended the re-implementation of SAP EHSM. Significant customisation in the existing EHSM system makes the re-design process overly complex and not cost effective.

The current system has been heavily customised for OTML and no longer leverages the standard features of SAP EHSM. This renders many of the standard dashboards and multi-dimensional reports as unavailable, and compromises the integrity of the system. Re-implementing the SAP EHSM module will also allow OTML to benefit from the enhanced features now available in EHSM 6.0

COSOL Delivery

COSOL delivered a standard SAP EHSM solution for the following processes:

- SHEC incident management incl. offline incident recording;
- Near miss management;
- Safety observations management; and
- Hazard or risk management.

To enhance the overall useability of the solution COSOL also identified and delivered the following enhancements / improvements as well as delivered fine tuning of existing functionalities.

1. Offline recording of Incidents;
2. Status changes for Incidents;
3. Significant incident logic;

4. Workflows for Incidents;
5. Incident Authorisations;
6. Screen changes for Incidents;
7. Screen changes for Near Misses;
8. Screen changes for Safety Observations;
9. Screen changes for Risk Management; and
10. Custom risk matrix.

Project Summary

COSOL has provided a “vanilla” EHSM implementation to OTML which is focused on business process change and leveraging “out-of-the-box” system functionality. This has provided OTML with a robust platform to underpin their “Zero Harm” vision.

