

Case Study



Shift Scheduling and Work Management Optimization

THE BUSINESS PROBLEM

This underground base metals mining company had excellent mine plans, but suffered from a significant inability to

- bring short-term plans together,
- do effective conflict resolution,
- orchestrate tasking pre-shift, and
- manage the impact of unplanned work during the shift.

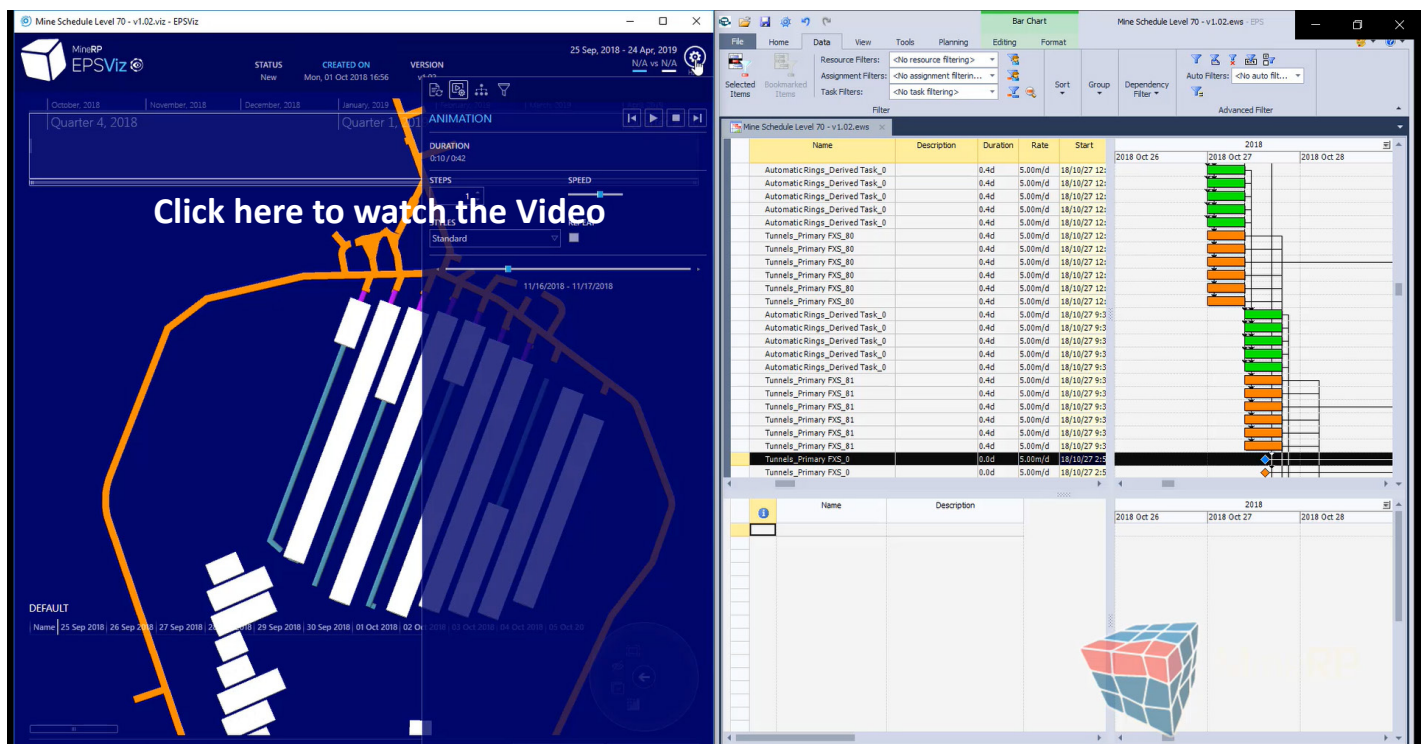
With a very high percentage of the work being done at the face being unplanned tasks demanded by unplanned conditions, the mine had to create an in-process replanning or plan-adjustment and re-orchestration capability to stay on-track during the shift, and manage the impact of unplanned work on following shifts.

Moreover, work such as equipment maintenance planned separately, and only introduced to the planning board at the last moment caused lots of conflict, and forcing everyone to plan on the same tools was not an option.

Underground Base Metals Mine

ROI

- Savings through conflict avoidance
- Increased tonnes
- Full project ROI within 16 weeks



THE MINERP SOLUTION

MineRP was configured to consume:

- Mine designs
- Short term Production Schedules
- Equipment maintenance schedules
- Resource rosters

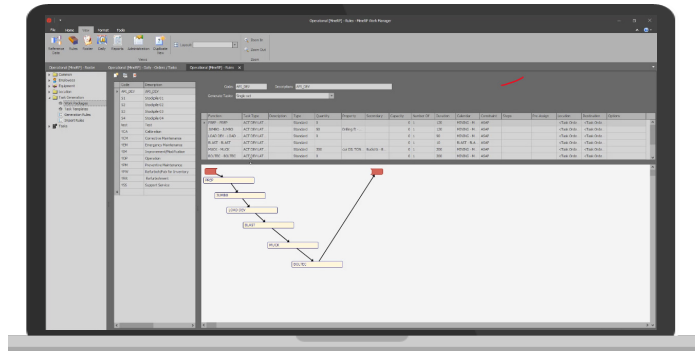
The MineRP platform was then used to generate a Master Business Schedule containing all this work, and to provide the definitive Shift Schedule ready for daily work dispatch and orchestration. Moreover, unplanned work demanded during the shift could now be entered onto the Work Management tool connected to the Master Business Schedule, and the Schedule could then be continuously adjusted so that the impact of changes to expected task durations in one area on dependent or subsequent tasks could be managed seamlessly.

Lastly, because all tasks were brought into the spatial context provided by MineRP, conflict resolution could go well beyond resource levelling, and planners could see where non-compatible tasks were planned in the same area at the same time, or where resources were allocated to different tasks in different locations at the same time (think for example of maintenance and production planned for the same machine during the same shift).

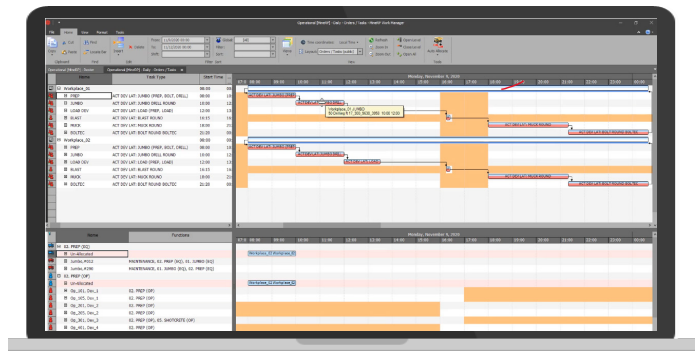
THE OUTCOME

The client diligently measured the impact of the digitalization of work management on the mine, and was able to demonstrate a return on their investment within the first 4 months post implementation. They are targeting a USD60m per year reduction of costs associated with unnecessary, avoidable downtime and waiting time due to poor work management in the past.

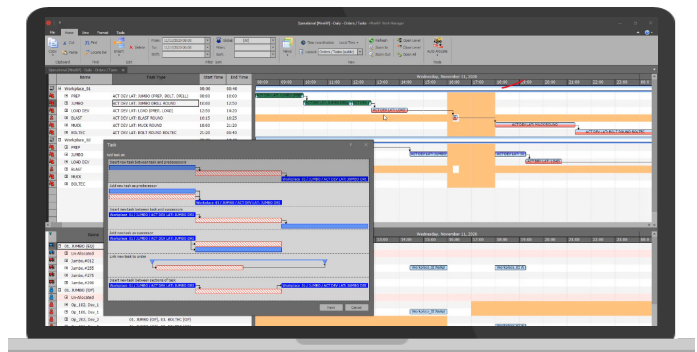
Detailed Task Templates



Task Properties & Assignment



Unplanned Work Management



Spatial Conflict Resolution

