

orelogy[™]
an idoba company

**Polaris
Metals
Case Study**

Scheduling Experts

Client Success Story

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Partners in Mine Planning

orelogy is a specialist mine planning consultancy with extensive experience in the planning and management of a resource. orelogy personnel have operational and consulting experience throughout the world, in a range of different commodities.

Established in 2005, orelogy is an agile and innovative consultancy that adopts a partnership approach with clients to develop practical solutions within a strategic framework. This approach ensures the delivery of key client outcomes.

In February 2022 orelogy was acquired by idoba.

idoba is an innovation ecosystem that identifies and solves problems by connecting technology offerings, expertise, and (mostly but not exclusively) energy and resources sector technical capability, to co-create a better future.

We now provide idoba with crucial mining domain knowledge as part of their vision to co-create a better and more sustainable future, in mining and beyond.

orelogy consulting services

Services include:

- Scheduling Studies
- Study & Project Management
- Technical Reports
- Cost Modelling (OPEX and CAPEX)
- Equipment Assessment
- Due diligence, Audits and Peer Review

Our number
one goal is to
unlock the
true value of
your mining
project



orelogy Scheduling Software

orelogy are “scheduling experts” and in seeking improved ways to deliver practical solutions to our clients we developed EVORELUTION - a best-of-breed, open-pit mine scheduling solution.

In 2014 Maptek, a world leading mining software provider, acquired EVORELUTION from orelogy and rebranded as 'Maptek Evolution'. This is an Open-pit scheduling software that delivers practical high value schedules. Maptek Evolution is a fully featured scheduling solution, that includes reserve engine capability, block model manipulation, strategic and LOM scheduling, reporting and visualisation tools.

Scheduling Expertise Delivers Results

Generating optimal fleet haulage routes through the dynamic development of a production schedule with waste dumping facilities.

Polaris Metals was pleasantly surprised with the results from the 'Maptek Evolution' software for a life of mine schedule at the Carina iron ore project. The superintendent of technical services, Craig Harris, turned to this scheduling software based on a suggestion made by his mine manager, and he liked what he saw.

“It’s capable of handling a lot more variables and parameters in a much shorter space of time than traditional software,” he says.

Carina has two open pits coming online and the company wanted to look at scheduling options for two production rates. “Before engaging them, we were under the impression we would require a fleet of 16 trucks and four diggers to achieve our production targets for the next 12 months,” Craig explains.

Client quote

"The savings to us was the most significant benefit.

The other benefit for us in this particular exercise was the fact that they were not only able to provide us with a systematic production schedule for our pit, but a practical development plan for our waste dump as well."

Craig Harris
Superintendent of
Technical Services
Polaris Metals Pty Ltd



Scheduling Expertise Delivers Results

After Polaris had initially planned for a larger fleet, the Open-pit scheduling software revealed that the project only needed 13 trucks and three diggers. Thanks to this, Polaris was able to stop the purchase of the three additional trucks and remobilise the remaining digger. This left Craig with no doubt that this scheduling software and orelogy's expertise saved the company unnecessary capital expenditure. "The savings to us was the most significant benefit," he says

"The other benefit for us in this particular exercise was the fact that they were not only able to provide us with a systematic production schedule for our pit, but a practical development plan for our waste dump as well."

The 'Maptek Evolution' software was also able to create optimised haulage routes for Carina, allowing Polaris to tell its mining contractor exactly what was required and what equipment was needed to achieve the best outcome.

"I think the team at orelogy are extremely engaging, and proactive in keeping us informed on how the project is progressing," Craig says. "Really I suppose the relaxed atmosphere in which they tackle the whole project is probably quite refreshing in our industry," he says. "For us it's been both a pleasure to deal with them and we got results, so it's been great." The orelogy team was also quite pleased with their work for Polaris.





orelogy quote

“This is a great example of what our scheduling expertise can do.

We were able to deliver the clarity the client was looking for, while providing both short-term and life of mine planning at the same time, using the same data set.

In the end it was quite a good result.”

Steve Craig
CEO orelogy

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