

orelogy[™]
an idoba company

**Iron Ore
Case Study**

**Iron Ore
Project Experience**





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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 in 2008, 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

"Maptek Evolution allowed analysis of multiple scenarios to determine ‘a best fit option’; pieced together ‘the various possibilities with an option to determine potentials that may not be obvious’; and looks forward to achieve a complete picture rather than satisfying one period at a time. It provided a real connection and visibility across the planning horizons."

Allen Silvester
Mining Manager
APIJV

Iron Ore Projects

COMPANY	MAGNETITE PROJECTS	COUNTRY	WORK
Aurox Resources Ltd	Balla Balla Iron / Vanadium Project	Western Australia	BFS & ongoing Long Term Planning (LTP)
Crosslands Resources Ltd	Jack Hills Expansion Project	Western Australia	Scheduling
Royal Resources Ltd	Razorback Project	Western Australia	Review and Prefeasibility study
Onesteel	Whyalla	South Australia	Schedule Development
Australasian Resources Ltd	Balmoral South Project	Western Australia	BFS
Asia Iron	Extension Hill	Western Australia	Implementation Study

Iron Ore Projects

COMPANY	DSO PROJECTS	COUNTRY	WORK
Australian Premium Iron Joint Venture	West Pilbara Iron Ore Project (WPIOP)	Western Australia	Feasibility Study (Mining), Reserve Estimation, Mine Planning Support
Atlas Iron Ltd	Pilbara Projects	Western Australia	Holistic Scheduling
Flinders Mines	Pilbara Project	Western Australia	Value Added Scheduling, Mine Planning, Feasibility Study
Rio Tinto Iron Ore	West Angelas	Western Australia	Long Term Scheduling
	Paraburdoo Dump	Western Australia	Rehabilitation design
	Tom Price	Western Australia	Ongoing site support
	Western Turner Syncline	Western Australia	BFS
	Yandi	Western Australia	Medium and Long Term Holistic Scheduling
	Brockman 4 & 2	Western Australia	Ongoing site support, Scheduling - 5 year Planning
	Marandoo	Western Australia	Ongoing site support
Fortescue Metals Group Ltd	Cloud Break	Western Australia	Site Support
Africa Iron Ltd	Mayoko	Republic of Congo	Definitive Feasibility Study (Mining)
Equatorial Resources Ltd	Mayoko-Moussondji Iron Project	Republic of Congo	Competent person, Site support, Cut-off Grade strategies, Mine Design, Feasibility Studies, Bench Height Studies



Case Studies

- Holistic Scheduling Facilitates 15 year Mine Life - Australian Premium Iron.
- Smart Scheduling Improves Balla Balla Project Value by \$192 Million - Aurox Resources.

References

With regard to our capabilities and past performances, we are more than happy for you speak with our clients about our service delivery process (diligence, agility, innovation etc).

Please let us know if we can supply references on an as-needs basis.

**Contact orelogy,
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