



# OPEN PIT METALS

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## CAPABILITY STATEMENT



# WE ARE MEC MINING

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**MEC Mining is a global mining consultancy specialising in mine planning, onsite management and technical services solutions for the international mining industry.**

Since 2005, MEC has grown into a leading consultancy firm with an experienced team of consultants; specialising in both the open cut and underground coal and minerals sectors.

Through our teams' real-world experience, our engineers have an owner's point of view when executing a project.

We deliver high-quality work that enhances the value of our clients' assets and our experienced team of consultants bring a diverse range of knowledge to each project.

Importantly, we offer a flexible approach to all services and will gladly tailor our services to meet individual project or company requirements.

## OPEN PIT METALS CONSULTING SERVICES

- ▣ Life of mine planning and long term planning and optimisation
- ▣ Design and scheduling
- ▣ Project review, cost modelling and project optimisation
- ▣ Scheduling model builds
- ▣ Rehabilitation and closure planning
- ▣ Studies – conceptual, pre/feasibility and bankable feasibility
- ▣ JORC resource and reserve reporting
- ▣ Asset management
- ▣ Contract and tender evaluation

## ONSITE OPERATIONAL SUPPORT

Utilising a broad range of onsite experience, our team provides and delivers full operational support across a wide range of functions.

- Relief role coverage from technical services engineers, through to management positions
- Project management and Operational readiness/startup
- Operational design, planning, scheduling and optimisation including supply of software where necessary
- Drill & blast, truck & shovel, haulage and dump design & optimisation
- Operational review, cost modelling and operational improvement
- Short to medium term design, planning and scheduling solutions

## COMMODITIES

Our team of established consultants are experienced in the following commodities across a range of mineralisation styles:

- Copper
- Nickel
- Lead
- Iron ore
- Silver
- Diamonds
- Uranium
- Mineral sands
- Zinc
- Gold

## SOFTWARE

Our team members hold experience with a range of mining software packages including:

- Surpac
- Mine2-4D & EPS
- Deswik CAD & Scheduler
- Minex
- TALPAC
- Vulcan / Vulcan Optimiser
- Minesight
- Minescape
- XPAC / XACT
- Spry
- XERAS
- 3D Dig
- Shotplus / BLASTPLAN
- DataVis
- ArcGIS
- Whittle





## PROJECT

Metro Mining,  
Queensland

## COMMODITY

Bauxite

## PROJECT VALUE

\$2 billion

## PROJECT / DEPOSIT STYLE

Bankable Feasibility Study

## PROJECT EXPERIENCE

Life of mine plan, schedule optimisation and CAPEX/OPEX cost modelling.



## PROJECT

Sepon, Lao

## COMMODITY

Copper

## PROJECT VALUE

\$500 million

## PROJECT / DEPOSIT STYLE

Life of Mine Plan

## PROJECT EXPERIENCE

Involved the review of several capital options and closure strategies. Optimised the sequence for mining of the five open pits.



## PROJECT

Lihir, Papua  
New Guinea

## COMMODITY

Gold

## PROJECT VALUE

\$8.8 billion

## PROJECT / DEPOSIT STYLE

Mining Improvement Projects

## PROJECT EXPERIENCE

Assisting Mine Planning, Mobile Maintenance and Mining departments with major joint improvement projects. Projects included barging operation, Truck and Shovel, Drill and Blast, Dewatering and Geotechnical.



## PROJECT

HKND, Nicaragua

## COMMODITY

Civil

## PROJECT VALUE

\$65.86 billion

## PROJECT / DEPOSIT STYLE

Engineering Support.

## PROJECT EXPERIENCE

Route selection/optimisation, equipment selection. Optimising truck and shovel haulage using Deswik to perform numerous schedule iterations and landform designs.



## PROJECT

Mayur Resources, PNG

## COMMODITY

Iron Sands

## PROJECT VALUE

\$150 million

## PROJECT / DEPOSIT STYLE

Pre-feasibility study

## PROJECT EXPERIENCE

Pit optimisations, concept studies and geological model builds.



## PROJECT

Sydvaranger Gruve  
Mine, Norway

## COMMODITY

Iron Ore

## PROJECT / DEPOSIT STYLE

Open pit arctic conditions - banded iron formation

## PROJECT EXPERIENCE

Mine planning, operation systems and support, life of mine planning

