



OREPRO™ 3D PREDICT

PREDICT BLAST RESULTS BEFORE THE BLAST FIRES

OREPro™ 3D Predict is a software application that predictively models blast movement without hardware or surveys, enabling iterative blast design for outcomes and improved grade control.

The program uses readily available mine data as inputs, including blast designs and in-situ block models, to transform pre-blast rock into a post-blast swelled grade control model using SmartVectors™. Sophisticated polygon optimisation algorithms then suggest grade control polygons to maximise profits and reduce unnecessary ore loss and dilution.

orica.com/orepro3dpredict

OREPro™ 3D Predict enables you to:



Improve productivity



Improve safety



Improve visibility of blast outcomes



Improve ore recovery

- ✓ Measure the impacts of your blasts before the blasts are fired
- ✓ Move your grade control model with the blast to create a moved model
- ✓ Account blast movement in 3D accurately
- ✓ Generate and edit optimised mining polygons quickly
- ✓ Have confidence in material classification and reconciliation

IMMEDIATE VALUE

The Financial Analysis Tool allows immediate scenario value comparison, delivering direct and dynamic comparisons between optimised polygons and those generated conventionally. You can also compare scenarios for different dig directions and flitch heights to maximise value.

SPEED AND FLEXIBILITY

OREPro™ 3D Predict has been purpose-built for rapid grade control with a clean user interface. Simulations are near real-time, and a blast can be processed with optimised mining polygons within 10 minutes.

KNOWLEDGE WHEN YOU NEED IT

By knowing what will happen before it happens, OREPro™ 3D Predict allows blast designers to create blasts that increase achievable value instead of waiting until the blast is excavated to understand the impacts.

EASE OF USE

OREPro™ 3D Predict is easy to use and is being continuously improved.

- Deal with complexity quickly and simply, without having to be an expert in blasting or blast movement
- Ease of communication and data integration with fleet management systems

- Global support and lightweight software platform allows for easy sharing and collaboration
- Embed OREPro™ 3D Predict into your ore control process with seamless data integration for both upstream and downstream systems

PROVEN AND RELIABLE

OREPro™ 3D Predict developed through extensive blast movement research obtained through thousands of blasts..

BLAST MOVEMENT MODELLING

OREPro™ 3D Predict uses blast designs, calibrated physics models, and world-class algorithms to determine how the blast moved, requiring no hardware, no extra holes, and no walking on muckpiles.

WHO SHOULD USE OREPRO™ 3D PREDICT:

- Geologists
- Short term planners
- Drill and blast engineers
- Blast operation managers
- Mining engineers

To learn more about OREPro™ 3D Predict and how it can support your operations today, please contact your local Orica representative, or visit [orepro3dpredict](https://www.orepro3dpredict.com)

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