



Resource Geology
Geostatistics
Business Improvement

Overview

Osterholt Consulting is servicing clients in the Natural Resources sector with resource modelling, business improvement, and risk assessment services.

Our aspiration is delivering the best possible solution for your business requirements. We use stakeholder alignment and problem framing to ensure our approaches and deliverables suit your business needs and provide the information you require for your decision making.

Services

Resource Modelling

- Data quality review
- Geological modelling
- Estimation (linear and non-linear techniques)
- Resource classification

Model Improvement

- Resource and grade control models
- Analysis of reconciliation data

- Model and documentation reviews

Resource Risk Assessments

- Preparation and facilitation of range analysis
- Statistical data analysis and modelling
- Monte Carlo simulation for geology and grades

Variability Studies

- Variance analysis and conditional simulation
- Modelling supply chain variability and constraint analysis

Drillhole Planning

- Generation of drilling plans at deposit and asset level
- Resource & reserve forecasting
- Business cases for drilling



Business Improvement

- Review and audit of geology data acquisition, and resource modelling procedures
- Assessing alignment of modelling process with mine planning requirements
- Assessment of value-drivers and decision impact of procedures
- Identification and assessment of technology opportunities
- Prototyping of software tools

Training Solutions

- Mapping of training requirements and technical and managerial staff
- Resource geology and geostatistics
- On-the-job coaching
- Tailored training on request

Due Diligence

- Risk assessments
- Technical assessments
- Due diligence
- Technical Audits



Geology and Mineral Resources in the Mining Value Chain

Volker is a geologist (MSc) and geostatistician (MPhil) with ten years experience in the Australian mining industry. He combines his expertise in resource geology & geostatistics, business literacy and deep understanding of the mining value chain with an aptitude for vision, strategic analysis and innovation.

He is an innovative, strategic thinker with excellent problem solving skills, challenging the status-quo to unlock additional value. He works collaboratively, bridging cultural and skills differences between people and functions.

Work experience include resource estimation, geostatistics and simulation studies in a range of commodities including, Gold, Copper, Nickel, Coal, Magnetite, Iron Ore.

He has been part of feasibility study teams from concept level to project sanctioning and, transition to execution. He led the resource modelling team and was appointed JORC Competent Person by BHP Billiton. Volker delivered process improvements for all stages of resource modelling and completed the development of a workflow system for Resource Modelling.

Affiliations

The Australasian Institute of Mining and Metallurgy (MAusIMM)

International Association of Mathematical Geology (IAMG)

Geostatistical Association of Australasia (GAA)

German International Consulting Group (FAB)

Berufsverband Deutscher Geowissenschaftler (BDG)

Selected Projects

Mt Keith High Talk Ore Review – Conditional simulation study addressing distribution of talk-bearing fault zones and missing talk assays in historic samples.

Rapid Growth Project 6 – South Jimblebar resource geology support from Exploration Target to Measured resource definition.

Project Bingo – Development of an exploration target range modelling process and application across multiple deposits for strategic option assessment.

Geology Workbench – Design and implementation of integrated end to end resource modelling workflow software.

Project Leibniz – Development of sustainable business improvement process for Planning Department including 5-year capability improvement plan.

R3M – Resource & Reserve Risk Management – Scoping study to investigate value trade-offs from exploration drilling to production.

Strategic Asset Drill Planning – Study of long-term drilling rates and resulting Mineral Resource maturity and mining risk profiles.



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