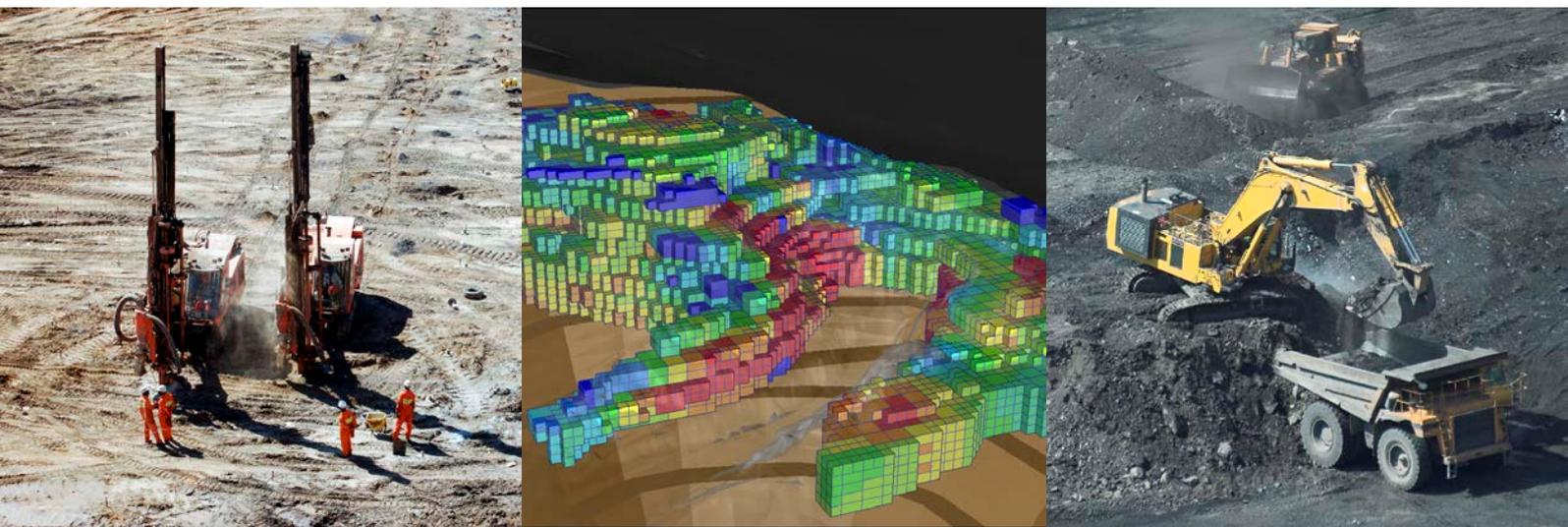




# Geological Consulting

## Capability Statement





Helping our clients succeed

# Geology Services

Helping our clients succeed

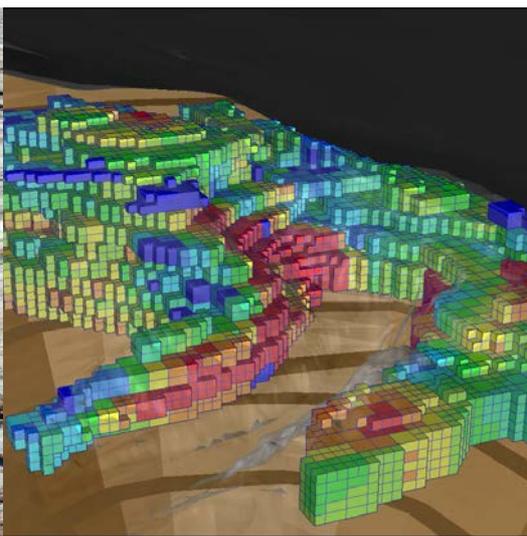
We are a team of geologists and geostatisticians who firstly, want to solve the problem and secondly, work hard to add value to our client's mining company by transferring technical knowledge back into their business. We favour collaborative relationships and work closely with our clients throughout an engagement in an open and transparent fashion.



Cube Consulting's geologists come from operating mine sites, where they acquired valuable real-world experience allowing them to provide high-quality practical advice and consulting services. When you engage with the Cube team, the person you meet is most likely the one who will do your work.

The Geological Consulting group's extensive experience allows them to offer practical solutions for a range of activities, spanning a wide range of commodities, mineralisation styles and geological environments.

We are able to draw on the expertise of our mining engineers to help enhance project value at the appropriate time.





## Our Services

- Resource Estimation
- Reporting – JORC2012, NI43-101, SAMREC
- Geological Data Management
- Reconciliation Studies
- Project Evaluation and Independent Review
- Geological Interpretation and Modelling
- Due Diligence
- Geostatistics – Linear, Non-linear, Multivariate
- Resource Auditing
- Mine Grade Control Systems

## Resource Estimation

*We draw on years of experience to ensure practical solutions and quality outcomes.*

Resource estimation is a core strength of the Cube Consulting geology team. From undertaking first-principles geological interpretation, through to application of advanced geostatistical modelling techniques, Cube's geologists will deliver what you need to move a resource through to the next project milestone.

We undertake independent mineral resource estimations suitable for public reporting based on JORC 2012, SAMREC and NI 43-101.

We work closely with your team during the resource estimation process to ensure a collaborative result and a positive legacy.

Whether we are providing a geological interpretation, resource estimation or undertaking a statistical analysis, we leverage our depth of resource modelling experience to deliver a quality outcome, whilst dealing with geological uncertainty.



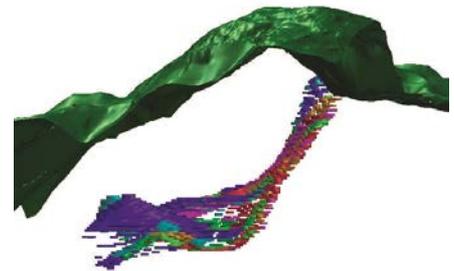


## Geostatistics

Geostatistical analysis is a key competency of the Cube geology team, with 40% of the Cube geologists having postgraduate qualifications in geostatistics. This means we have the expertise in-house to solve the most difficult problems, backed by sound scientific principles.

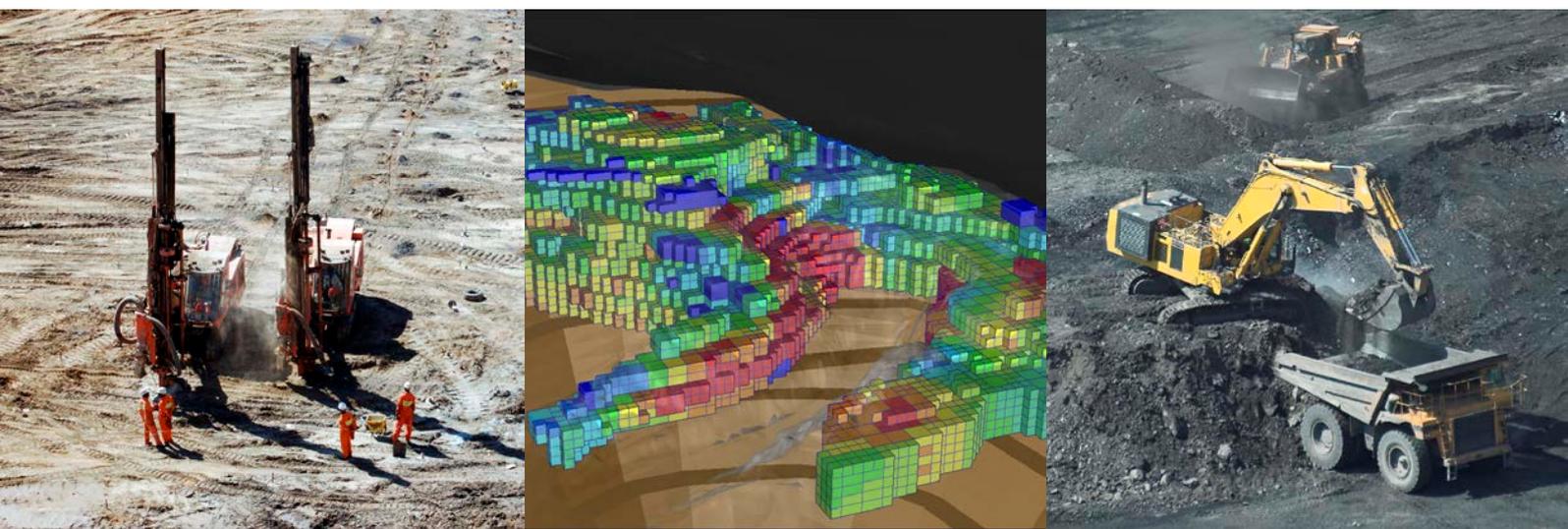
We are specialists in single and multi-element analysis, able to offer advice in all aspects, from confirming domains and boundary conditions, comparing drill data types, drill hole spacing analysis, characterising spatial continuity and nugget effect through to estimation methodology including linear and non-linear techniques.

We will undertake a thorough review and offer informed advice to ensure you have confidence in understanding the risks and uncertainty associated with your project resource. This may involve using linear or non-linear techniques. At Cube, we have experience from kriging through to recoverable resource using local uniform conditioning and simulation. Using Isatis, we are able to employ the most advanced techniques to your project, always tempered with our practical approach.



## Mine Grade Control

Cube Consulting has a very strong focus on the needs of operating mine sites, with a history in building, implementing and training in grade control systems built around Surpac. Grade control is a process, highly dependent on data collection,





data quality checks and data management systems that may already be in place on a mine. The Cube geology team are expert at bringing order and repeatability to this process.

We provide advice on geological domaining, material classification and estimation as required and work closely with your production and quality control geologists to implement an easy-to-use and intuitive set of processes.

## Project Review

When raising project finance, or reviewing an asset as part of a potential acquisition, you may require an independent review of geology and resources. Cube geologists understand the practical considerations involved in both high level and more detailed project reviews required to identify risks, threats and opportunities inherent in every project.

*We support our clients when they most need help. We favour collaborative relationships.*

From conducting exploration strategy reviews through to checking the veracity of previously defined resources, the Cube geology team will provide an independent and well-informed assessment of issues or risks relating to interpretation, compositing, top-cutting strategy, estimation methodology and classification.

As part of our service we investigate and communicate to you about areas where further drilling could increase confidence levels and help to quantify the work required to upgrade your existing resources.





Underlying this may be the requirement to conduct a first-principles review of QAQC, sample collection and preparation procedures and database management practices. Cube consultants will look at all aspects of project geology to ensure material issues and fatal flaws are brought to light.

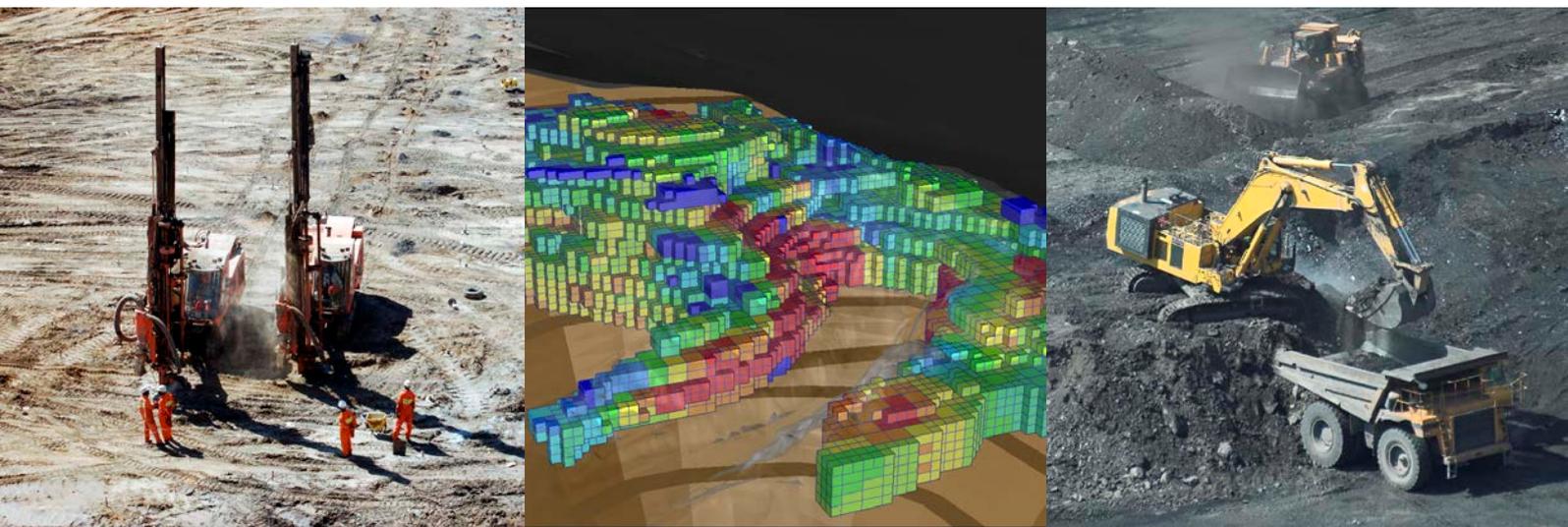
## Geological Database Management

Cube offer data management and validation consulting services for projects at various stages of development, from the first drill hole to the last, to ensure data quality meets reporting guidelines. If you need database verification and updating, or a more detailed data investigation to uncover data bias, Cube is able to help.

*We are transparent, open and easy to work with. Our team of real world experienced geologists delivers positive results for our clients*

We are able to host your database and manage ongoing data loading, including validation and QAQC reporting, or conduct a historic data review and compilation with a view to being resource ready.

We can work with all database formats, but our years of experience in solving database problems have encouraged us to develop a solution that applies across the exploration and mining industries. Our sister company, Cubility, produces the George database product, which is a comprehensive system for extraction, presentation and analysis of assay data, allowing rapid analysis and highlighting areas for further scrutiny.





## Training

Whenever you get a Cube geologist to your mine site, it's an opportunity to get your site based geologists some real situational training and mentoring. This may be around geological mapping and interpretation, or it might be training in grade control modelling tools. We also provide training on reconciliation issues and geological reporting.



Besides mine site training, we are available for co-pilot training of resource geologists. Our aim is to provide our clients with the best possible advice and solutions to a broad range of complex geological problems – it may be that we need to do the job, or it may be that we teach someone how to do the job, working alongside them to transfer skills and knowledge.

As part of the implementation of our GCX grade control system, we offer comprehensive onsite training, using your data. This ensures that firstly, you understand the principles behind the system and secondly, you understand how it works in your situation. This might mean the training needs to extend outside the area of focus – for example, grade control training may need to cover concepts of advanced geostatistics to ensure your geologists are confident in the system they are using.

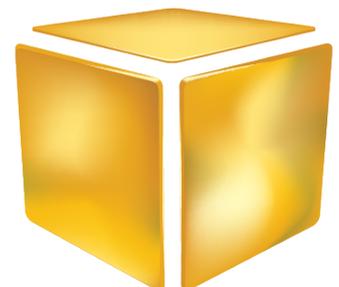


## About Cube

Cube Consulting provides specialist consulting services and software systems to the global mining industry. We are a quality team of geologists and mining engineers with a wide range of skills and experience, applicable from advanced exploration projects through to operational mines across multiple commodities.

Established in 2000 in Perth, Western Australia, Cube Consulting has grown to become a world class Mining Services Company, working with our customers to add value to their projects through considered and practical advice.

- Geological Services based on extensive operational and field based experience.
- Mine Engineering Consulting Services supporting sound commercial decisions.
- Technology solutions focused on Mine Grade Control and estimation.



### **For more information**

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