

CSA Global

Resource Industry Consultants

Mining & Projects



CSA Global has been providing innovative and practical solutions to the resources industry since 1986. CSA Global has assisted its customers with mining projects in Australia, Africa, Central and South East Asia, Indonesia, China, Mongolia and Europe. CSA Global staff have specialist knowledge of many deposit styles, commodities and mining techniques, with the experience to undertake the full technical studies from Scoping Studies to Feasibility Studies and Due Diligence. We can also provide assistance in project execution and operational improvement.



Mining & Projects

CSA Global's customers include junior explorers and the major international resource companies. We recognize the project concept is the foundation on which not only the more detailed technical studies but also the future success of a project is built. CSA employs many experts with wide and varied international experience gained in senior operations and corporate management roles. This depth of knowledge enables tailored, effective solutions to be delivered to our customers.

CSA Global offers its customers a uniquely integrated and comprehensive service that includes; exploration management, resource definition drilling and sampling, data management, geographic information services, resource estimation, processing method selection, strategic mine planning, open cut optimisation, open cut design, underground mine design and production scheduling. We have developed associations with expert and experienced professionals in the geotechnical, geophysical, hydrogeological and environmental management disciplines to provide a completely integrated and cost effective service.

By working with the clients' own teams wherever possible, CSA is able to provide technical studies and support in the most cost effective manner. In addition to providing technical mentoring to the client's employees, this "blended team" approach enables CSA both to fully utilize the clients' knowledge of their projects and to transfer "ownership" of the study outcomes back to the clients' project teams.

Our capability in the fields of feasibility studies, operational improvement and technical due diligence has been growing rapidly with offices now in Perth, Jakarta and London providing an ideal base of operations for our consultants to provide round the clock service for our clients in Europe, Africa, Asia and Australia.





Our Services

- Reconciliation and estimation of ore reserves
- Mining studies (concept & pre-feasibility to bankable feasibility)
- Due diligence
- Mine optimisation and pit design
- Mine scheduling
- Operation and productivity improvement
- Grade control and dilution management
- Strategic planning
- Process flowsheet design

Project Evaluation

- Cut-off grade determination
- Feasibility studies (concept / scoping, pre-feasibility and bankable feasibility)
- Economic evaluation
- Due diligence
- Independent expert reviews
- Project risk analysis

Operational Improvement

- Safety management and improvement
- Training systems
- Gap and risk analyses
- Grade control and dilution management
- Reconciliations from resources through to final product
- Mine fleet optimisation
- Maintenance effectiveness
- Productivity and cost improvements
- Long term planning and scheduling

Recent Experience

- Vietnam Chromite, Zinc
- Indonesia Coal, Nickel
- Mongolia Coal
- Russia Uranium
- Kazakhstan Gold / Copper
- Kyrgyzstan Gold / Copper
- Kyrgyzstan Gold
- Sweden Copper Iron
- Spain Tungsten
- Ghana Gold
- Tanzania Uranium
- Sudan Gold
- Zambia Gold
- DRC Gold
- Yemen Zinc
- Australia Gold, Iron Ore, Lead

About CSA Global

We are a leading geological, mining and management consulting company with 25 years experience in the international mining industry.

We cover all stages of the exploration and mining cycle:

Exploration & Evaluation

Data Management & Mapping

Resources & Mine Geology

Mining & Projects

Community Development & Sustainability

www.csaglobal.com

CSA Global Head Office

Level 2, 3 Ord Street
West Perth, WA 6005

T +61 8 9355 1677

E csaaus@csaglobal.com

Global offices in • Western Australia
Queensland • Northern Territory
United Kingdom • Indonesia

