MINING
CSA Global’s Mining services team provides effective evaluation, planning, review and development of surface and underground mines worldwide. We have experience across a wide spectrum of mineral commodities and diverse physical environments, delivering practical results with technical excellence.

Our specialist knowledge of diverse types of deposit and mining techniques, combined with our extensive experience, allows us to undertake full technical studies from scoping studies to feasibility studies and due diligence. We identify and investigate appropriate concepts for project development and support this at every stage of the mining cycle.

Our mining team work closely with the geology and resource estimation team to produce integrated solutions across mine planning, development and operations studies to ensure that our recommendations are sound and practical. We propose, and can implement, solutions that consider the project drivers and focus on adding value.

The mining team provide expert advice in preparing valuations of mineral assets and across complex due diligence assignments.

Services and systems we provide include:

• Conversion of Mineral Resources to Ore Reserves considering the ‘modifying factors’ in appropriate Reporting Codes such as JORC and NI 43-101
• Ore Reserve classification that considers the likely outcomes of the proposed mining and processing method
• Open pit and underground mining studies from concept to feasibility and implementation
• Strategic planning of project development
• On-site technical support and training
• Economic evaluation of costs and revenues, including cut off grade determination
• Financial modelling
• Mine optimisation, design and scheduling
• Mine fleet optimisation and maintenance effectiveness
• Capital and operating cost estimation
• Long term, medium term and short term planning
• Operation monitoring and productivity improvement
• Improvement of grade control procedures to collect, monitor and use data
• Implementation of effective systems to measure and control dilution and ore loss
• Reconciliation between the mill, mine, Ore Reserve and Mineral Resource
• Project evaluation, risk analysis and project management
• Due diligence evaluation of developing, operating and closed mines
• Operational commissioning, trouble shooting and performance improvement
• Safety improvement and ongoing management
• Mineralogy, metallurgical test work, process flowsheet evaluation and design, cost and recovery analysis, preliminary plant design, and optimisation of processing operations
• Training, continuous improvement and change management.

We provide appropriately experienced consultants who are practical, hands-on mining industry professionals able to work closely with corporate management and on-site personnel. We have the commercial skills to ensure that corporate goals are taken into account during each stage of review, planning and operations. Our project improvement process is focused on enhancing the viability of resource projects, and thereby increasing profitability, through the implementation of proven practices and technological innovations.

We add value by approaching each assignment with integrity and provide dependable decision-making benefits.

Recent Experience
Base Metals Canada
Base Metals Armenia
Base Metals Bulgaria
Base Metals China
Bauxite Guinea
Coal Australia
Coal Indonesia
Coal Russia
Copper Australia
Copper Brazil
Gold Kyrgyzstan
Gold Indonesia
Gold Australia
Gold Philippines
Gold Mali
Gold Burkina Faso
Gold Russia
Gold Kazakhstan
Graphite Tanzania
Iron Ore Guinea
Mineral Sands Australia
Nickel Indonesia
Nickel Australia
Nickel Guinea
Tin Malaysia
About CSA Global
We are a leading mining, geological, technology and management consulting company with more than 35 years experience in the international mining industry.

We cover all stages of the exploration and mining cycle, including mineral commodities and extraction methods across all regions:

CORPORATE
MINING
RESOURCES
EXPLORATION & GEOSCIENCE
WATER
DATA & TECHNOLOGY

Global offices in
• Perth • Brisbane • Jakarta • Singapore
• Johannesburg • Horsham • Vancouver • Toronto

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