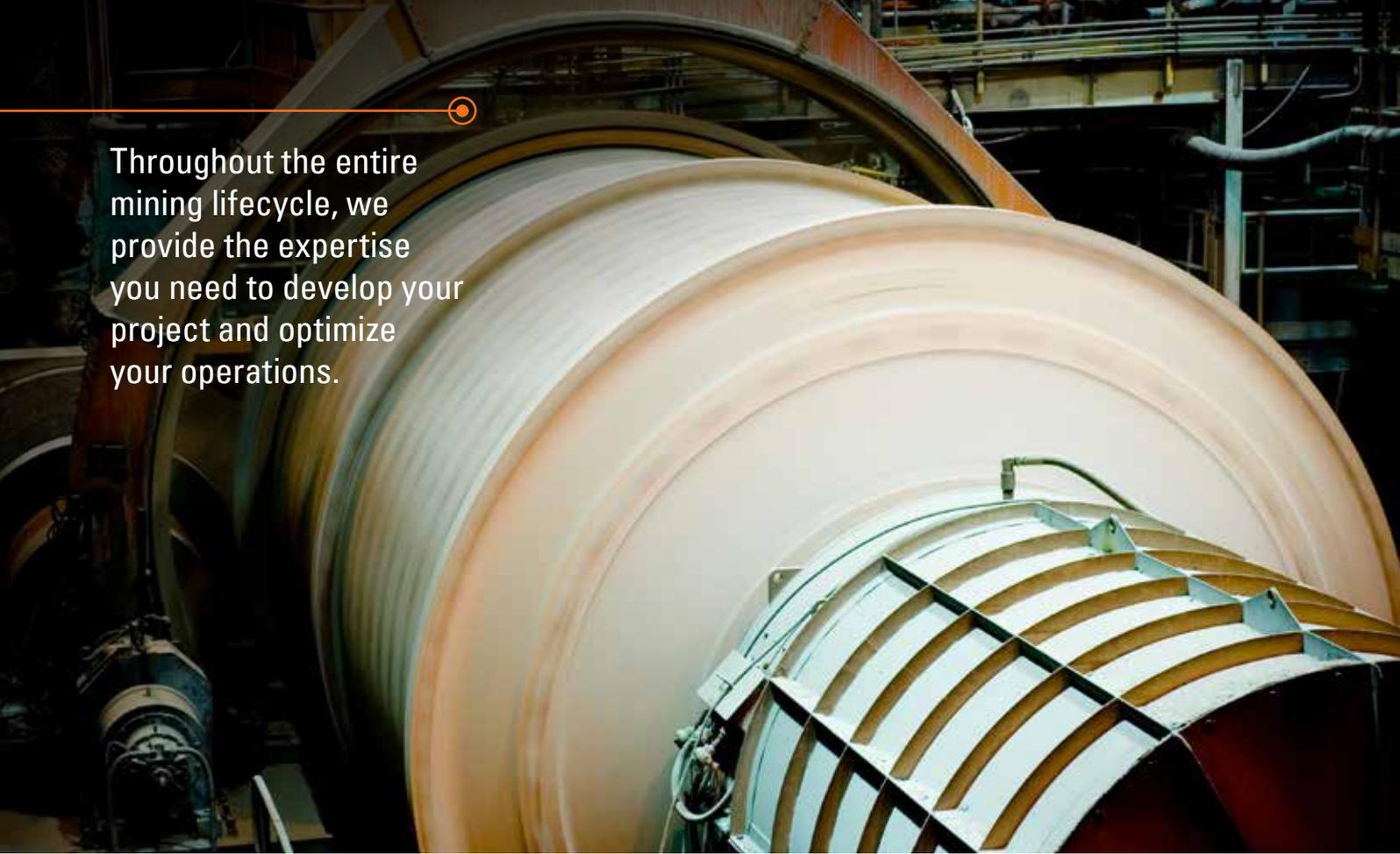


Metallurgy & Consulting

Trusted.
Independent.
Committed.



SGS



Throughout the entire mining lifecycle, we provide the expertise you need to develop your project and optimize your operations.

Realize the full value of your mineral deposit

We are global leaders in the mineral and mining industry in precious metals, base metals, iron ore and critical minerals. Our technical expertise in metallurgy and process development remains unmatched around the world.

Our demonstrated success in project development and support for operational improvement have provided hundreds of companies with effective and practical technical solutions.

Our services encompass the skills of highly qualified geologists, mineralogists, mining engineers, metallurgists and process engineers brought together to provide accurate and timely support for all phases of project development from core logging, exploration advice, resource estimation through to metallurgical and pilot plant testing, feasibility studies, engineering, construction and commissioning.

Leveraging our extensive global expertise in the mining industry, we provide efficient and highly valued process audits; geometallurgical, process modeling and optimization services; as well as independent due diligence reviews, project risk assessments and advanced process control systems.

Our experts work across disciplines and project stages to deliver integrated, customized solutions to solve your most unique challenges.



Continue reading to find out how SGS can help take your mineral and mining operations to the next level.



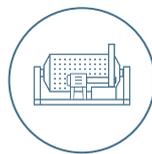
We offer a wide range of solutions to support you along your journey

Our team of highly qualified professionals provide solutions that are innovative, reliable and effective. We have an extensive network of technical experts who work across the project lifecycle from exploration through to closure to seamlessly integrate metallurgical testwork, pilot plant testing, feasibility studies and engineering, to find practical, cost-effective solutions that will help you get the most from your project or operation.

Our disciplines include:



Geology and mining engineering



Metallurgy and mineralogy



Feasibility studies and engineering



Geometallurgy and process optimization



Process audits and metal accounting



Advanced process control systems



We've built our reputation in precious and base metals and lead the industry in critical mineral expertise.

Leading critical minerals insights

We are known all over the world for our metallurgical and mineralogical expertise in precious and base metals. As the world has embraced advancing decarbonization and climate change targets, critical minerals are vital in the move to electromobility, energy storage and hi-tech applications.

Our experts continue to innovate. We have grown our capabilities in critical minerals to lead the market in project development for rare earth elements such as scandium, niobium and battery raw materials, including lithium, nickel, cobalt, graphite and manganese. As we continue to work closely with our clients, our deep understanding of metallurgical testwork, pilot plant testing and process development has allowed us to collaborate with industry stakeholders to build long-term solutions in the race to net-zero.

For 80 years we have been providing clients with solutions to develop projects and optimize their operations across a wide range of commodities. As the need for critical minerals grows, so does our expertise and capabilities.





From geology and mining to process plants, our team of experts work in multidisciplinary teams to develop the best solution for you.

Working across boundaries to deliver solutions

Our approach brings together multiple disciplines to ensure all aspects of your needs are considered and to develop the most innovative solution for your project and operation.

Our technical expertise in the metals and mining industry remains unmatched around the world.

Our services encompass the skills of qualified geologists, mining engineers, mineralogists, metallurgists and process engineers, brought together to provide accurate and timely mineral and process evaluation and consulting services.

With a network of analytical laboratories, metallurgical facilities and offices around the world, our integrated approach that

allows us to address your challenges effectively and exceed your expectations.

As a market leader with a global presence in every major mining jurisdiction, we deliver expertise to mining companies with a comprehensive understanding of their deposit and mineral variability through to the process plant. Whether you need to design an exploration program, carry out mine planning, develop or optimize a flowsheet, understand your requirements through a custom pilot plant, perform a feasibility study, conduct a process audit or understand your metal accounting, we partner with you to ensure your solutions meet your needs.

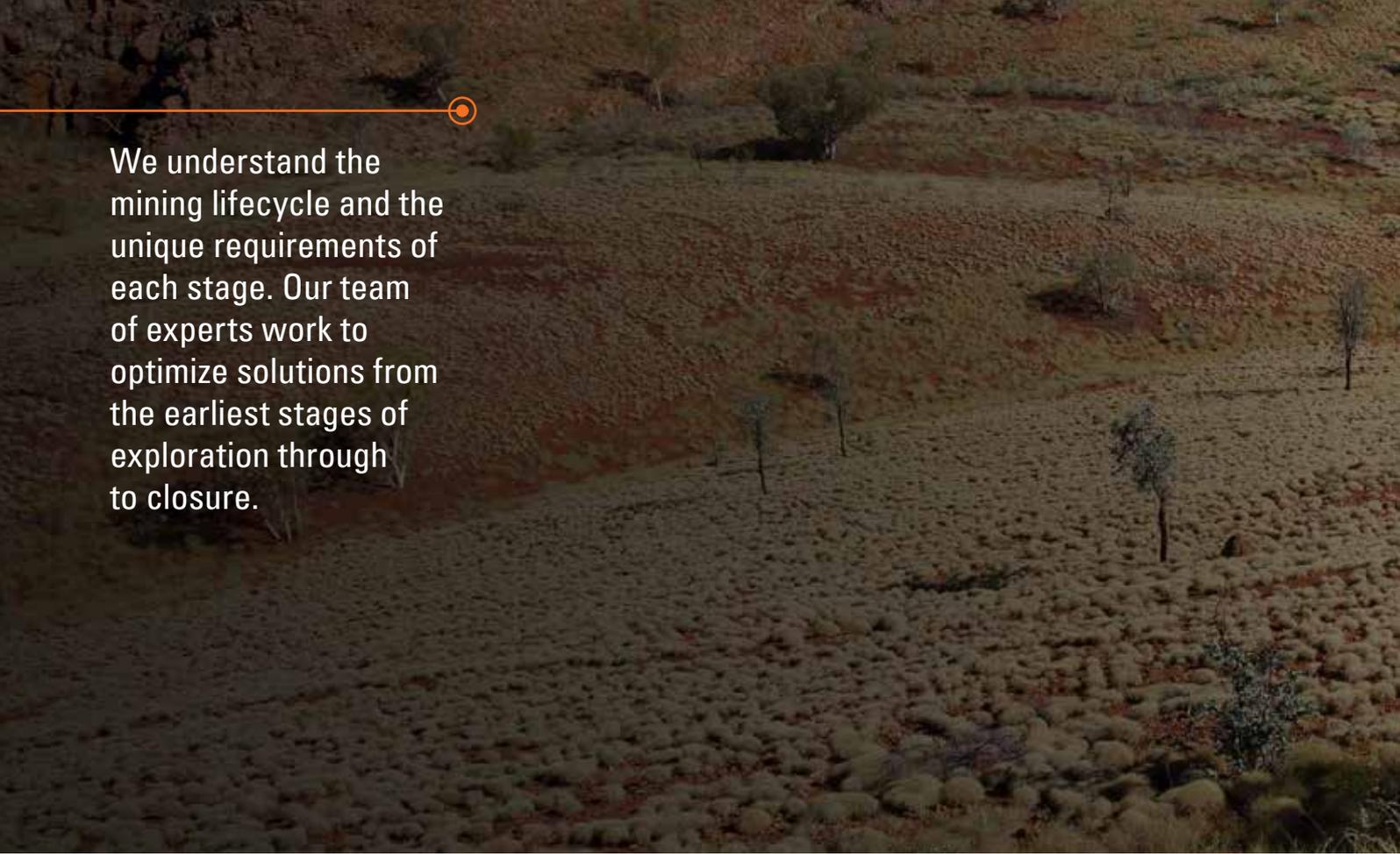
We are trusted, independent and committed.



"I must credit SGS for their ability to gain the trust and respect of the operations team during the project implementation, especially the control room operators. The implementation of a controller like this can often be fairly disruptive to production, and can be met with no small amount of resistance. Getting the buy-in from the ops team is critical and SGS made this very easy."

Peter Dawson

First Quantum Minerals – Kansanshi Zambia / Ravensthorpe Australia



We understand the mining lifecycle and the unique requirements of each stage. Our team of experts work to optimize solutions from the earliest stages of exploration through to closure.

From exploration and mining to processing and closure, we can help

From early exploration to end-product testing and certification, our team provides quality, fit-for-purpose solutions, process flowsheet development and metallurgical testwork capabilities for a complete suite of commodities. We help clients move successfully through the project lifecycle.

As you move from exploration into resource and reserve development and mine planning, our experts in geology will help you with core storage and logging, defining targets, manage exploration programs, provide stock exchange-accepted technical reports, understand unique deposit requirements through mineralogy and assist with sample selection to support flowsheet design.

As you move through the feasibility study stages (PEA, PFS and FS), plan for construction, take your mine into production

and commission and ramp up your process plant, our engineers and process consultants will help you to build cost-effective and efficient operations, ensuring sustainable future production. As an integrated group, our geologists, mining engineers, metallurgists and mineralogists understand the changing needs of your deposit, ensuring that your operations are optimized at all times.

Your needs span the project lifecycle and our end-to-end capabilities mean we can help you at every stage.



Our unrivaled global network



500+

Laboratories

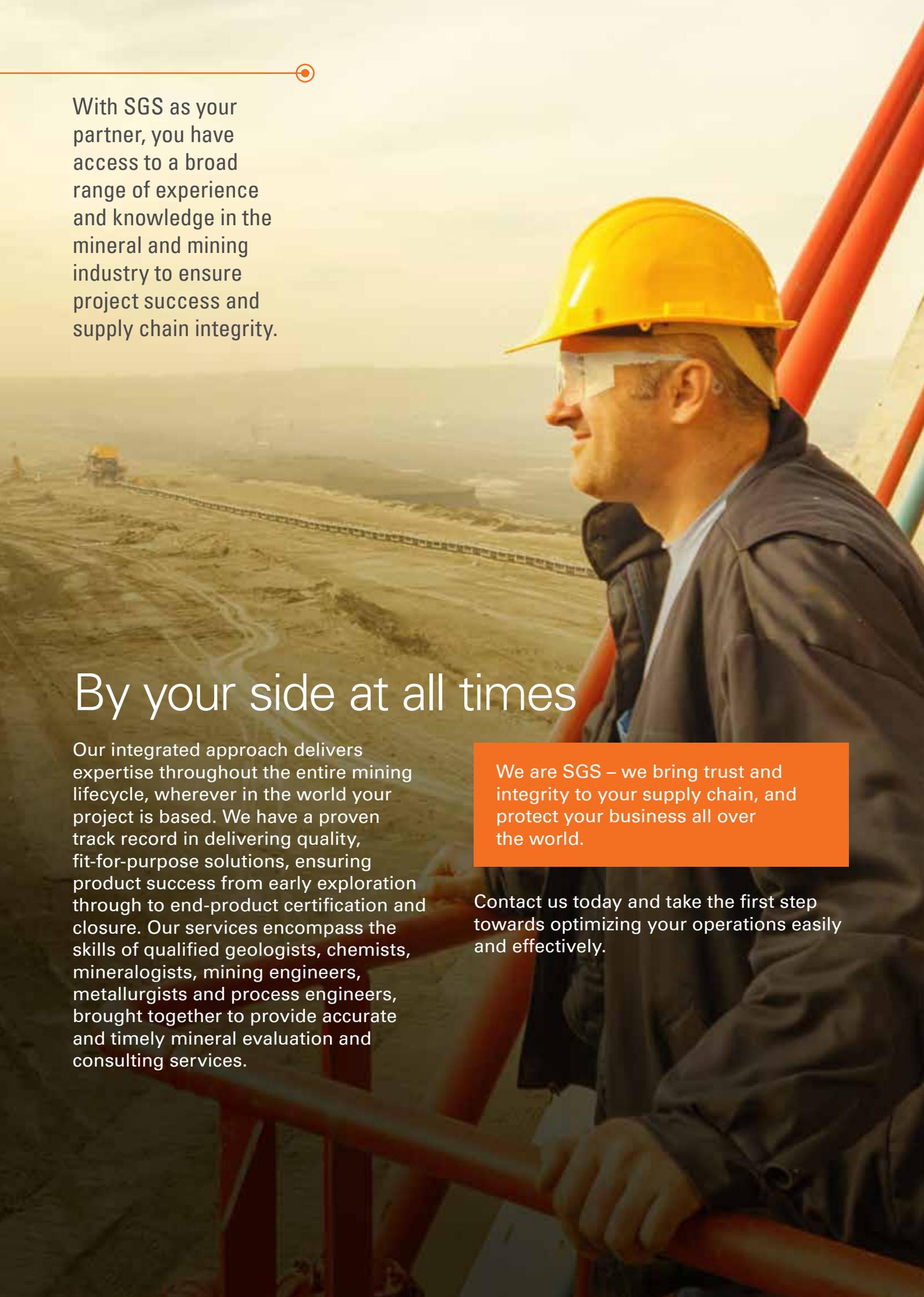
130+

Countries

6

Continents

We have highly experienced specialists both on the ground and in laboratories throughout the world. We have local experts on a global scale, meaning that we can be on hand to optimize your operations at all times, no matter where you are located.

A man wearing a yellow hard hat and safety glasses is looking out over a vast mining site. The site features a long conveyor belt system stretching across a hilly, dusty landscape under a clear sky. The man is in the foreground, slightly out of focus, looking towards the right. The background shows the extensive mining operation with various structures and equipment.

With SGS as your partner, you have access to a broad range of experience and knowledge in the mineral and mining industry to ensure project success and supply chain integrity.

By your side at all times

Our integrated approach delivers expertise throughout the entire mining lifecycle, wherever in the world your project is based. We have a proven track record in delivering quality, fit-for-purpose solutions, ensuring product success from early exploration through to end-product certification and closure. Our services encompass the skills of qualified geologists, chemists, mineralogists, mining engineers, metallurgists and process engineers, brought together to provide accurate and timely mineral evaluation and consulting services.

We are SGS – we bring trust and integrity to your supply chain, and protect your business all over the world.

Contact us today and take the first step towards optimizing your operations easily and effectively.

Trusted. Independent. Committed.

Contact Us

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www.sgs.com/linkedin-natural-resources