

14-16January 2025

King Abdulaziz International Conference Center, Riyadh, Saudi Arabia



Register here



Preview

JANUARY 2025

FMF25: JOIN US TO DELIVER A YEAR OF IMPACT

With a rallying theme of the 'Year of Impact', the Future Minerals Forum (FMF) is once again convening in Rivadh to continue its work on creating the resilient, responsible minerals values chains that are needed for the energy transition and for society's development.

his is the fourth year of this unique event - the only globally recognized platform for shaping the future of minerals - and we are delighted that you will be a part of it. In the pages of this Preview are thought leadership articles by some of the most senior figures in the industry, a wealth of contributions from our sponsors, partners and exhibitors, and invaluable information about the practical arrangements for the Forum, including FAQs, badge pick-up info & transportation (see p.20) and a floorplan (see p.43).

We are also excited to be able to tell you about some brand-new features for 2025, including the Knowledge Transfer (see p.31) which sees the FMF expanded into a third day of its programme. The Knowledge Transfer takes place on 14 January with 20 must-visit sessions at which you are invited to dive deep into a range of technical aspects of mineral and mining operations.

Welcome to Riyadh - and the Year of Impact for FMF!







p1() Collaboration and partnerships are key

Catherine Raw Chief Development Officer, BHP



Doing things the right way Duncan Wanblad



P19 Equipping the mines of the future

Helena Hedblom President & CEO, Epir















14-16 January 2025

King Abdulaziz International Conference Center, Rivadh, Saudi Arabia

Preview

THANK YOU TO OUR FOUNDING PARTNERS













CONTENTS

JANUARY 2025

1 FMF25: JOIN US TO **DELIVER A YEAR OF IMPACT**

Future Minerals Forum is once again convening in Riyadh to continue its work on creating the resilient, responsible minerals values chains that are needed for the energy transition and for society's development.

03 ALI AL-MUTAIRI

FMF25 demonstrates how dialogue can drive transformative change in the minerals sector.

05 ESNAD

Its digital services deliver efficiency, reliability and cost-effectiveness for the mining sector.

06 VALE

Enabling the development of an integrated green steel industry in the Middle East.

07 ESSAR

Pioneering successful industrial projects with out-of-the-box thinking.

08 MINISTERIAL **ROUNDTABLE**

The world's only government-led platform for working together to produce the minerals needed for the energy transition.

10 CATHERINE RAW, BHP

Collaboration and partnerships are key to derisking and accelerating the development of new resources.



11 DUNCAN WANBLAD, **ANGLO AMERICAN**

A company that does things in the right way, re-imagining mining to improve people's lives.

12 WHAT IS THE FUTURE **MINERALS FORUM?**

A unique event bringing stakeholders together to enable the development of responsible minerals value chains.

15 SPEAKERS

Each year, FMF attracts some of the most senior figures from across the minerals sector.

16 GARETH PENNY, **NINETY ONE**

Ninety One's Chairman explains why active investing can be a force for good.

17 EMR CAPITAL

Putting ESG at the forefront of all its decisions.

18 BOB WILT, MA'ADEN

The Saudi Mining champion is driving the next era of human progress and development.

19 HELENA HEDBLOM, **EPIROC**

Helping to achieve more sustainable and productive mining operations.

20 FAQS, BADGES & **TRANSPORT**

22 PETAR OSTOJIC, **CENTER OF INNOVATION AND CIRCULAR ECONOMY**

Building a strategic bridge between the super region and Latin America.

23 JOE KAESER, **SIEMENS ENERGY & DAIMLER TRUCK**

The global energy transition: an opportunity and a responsibility.

24 MARNA CLOETE. **IVANHOE MINES**

Leading the critical minerals sector with sustainable practices that go beyond industry standards.

24 JEAN-RAYMOND **BOULLE, JEAN BOULLE GROUP**

Persistence in discovery

25 ROBERT FRIEDLAND, **IVANHOE MINES, IVANHOE ELECTRIC &** I-PULSE

The time for action is now.

26 JOAQUIN VILLARINO, CONSEJO MINERO

Why Chile can consolidate as the leading supplier of clean technologies.

26 JOS SIMSON, TAVISTOCK

Read why it's vital that the mining and minerals sector tells a better story.

77 FMF PILLARS

Discover the themes and pillars for this Year of Impact.

28 CHRISTIAN MILAU, SAUDI DISCOVERY **COMPANY**

Highlighting the progressive regulatory reforms and investor-friendly policies spearheaded by Vision 2030.

28 BOSTON METAL

Meet a company on a mission to decarbonize steelmaking and advance sustainable metals production.

30-41

- 30 Ajlan & Bros Mining
- **31** Alkhorayef Mining Company
- 32 BCG / Saudi Red Bricks Company
- 33 Royal Road / FLS
- 34 Hatch / DRA Global Ltd
- 35 Polyus / Samir Odeh Group
- 36 United Cement Industrial Company / KSB Pumps Arabia
- 37 Solb Steel / BGP
- 38 Geotek / Najabah
- 39 Lithium Infinity LLC / **Fvident**
- 40 Seequent / Dias
- 41 Elemission / Andiamo Exploration

17 INTERNATIONAL **EXHIBITION**

43 FMF 2025 FLOOR **PLAN**

43-55

- 43 ICCIMA
- 44 Pakistan
- 45 Bechtel / Geodrill
- **46** Abdullah Hashim Industrial Gases & Equipment / XCMG
- **47** Drilling and Exploration Company / Ginger Sofreco
- 48 MSA Arabia / Viridien
- 49 SBM / Shandong Xinhai Mining Technology & Equipment Inc
- **50** CMS Cepcor / Aginco
- **51** Massar Business Solutions / Sadim Almaid
- **52** Stryde / PRD Rigs
- **53** Austrian Pavilion
- **54** Becker Mining Systems / Weir Motion Metrics
- **55** Peridot Stone Company / IMDEX

DISCLAIMER

The opinions expressed in this publication are those of the authors. They do not purport to reflect the opinions or views of the Future Minerals Forum, or Saudi Arabia's Ministry of Industry & Mineral Resources.





WELCOME TO THE 4TH EDITION OF THE FUTURE MINERALS FORUM

By Ali Al-Mutairi, Executive Director, Future Minerals Forum

ooking back, the Future Minerals Forum (FMF) has been an incredible journey-one that started with a vision to establish a global platform for the mineral industry and in just three years has grown into a movement that drives meaningful impact across the sector. When we launched FMF in 2022, we were determined to create more than simply a conference; we envisioned a dynamic space where stakeholders from across the mineral value chain could come together, tackle challenges, and unlock opportunities to shape the future of mining and minerals.

At its core, FMF has always been about bringing people together to make a difference. We understood early on that the challenges facing the mineral industry-from supply chain disruptions and the energy transition to social and environmental expectationscannot be addressed in isolation. FMF was conceived as a collaborative platform where industry leaders, policymakers, investors, innovators, and communities converge to share insights, forge partnerships and craft solutions. Our belief that dialogue and collaboration can drive transformative change has been validated time and again as FMF has become a nexus for profoundly important conversations that impact not only the industry but also the world at large.

The milestones we have achieved along the way reflect the power of collaboration.
The inaugural FMF in 2022 set the tone, attracting 3,689 participants from across the world and inspiring critical discussions on the future of minerals. By the second edition in 2023, FMF had solidified its reputation as a premier global event, with 9,000 attendees representing every continent and a remarkable lineup of 249



Ali Mutairi, Executive Director, Future Minerals Forum

14 thousand

Our third edition dominated global headlines with 14,000 participants from 133 countries, 250 speakers from different streams of the mineral value chain, and 35 bilateral, multilateral organizations and trade organizations.

speakers, thought leaders, and decision-makers. From groundbreaking investment deals to innovative policy dialogues, FMF has become a launchpad for ideas and initiatives that resonate across the mineral ecosystem.

Last year, we grew even further with 14,000 participants from 133 countries, 250 speakers from different streams of the mineral value chain, and 35 bilateral, multilateral organizations and trade organizations. This growing influence demonstrates our forward-thinking approach towards issues and ability to deliver concrete solutions, supported by different initiatives such as;

- Developing an International Critical Minerals Framework: Establishing fully integrated value chains to position the region as a global leader in critical minerals.
- Building capacity through the creation of a network of Centers of Excellence: Creating a coordinated network of centers to provide specialized knowledge and resources to empower the region.
- Setting regional expectations for responsible critical minerals supply: Defining priorities that reflect local realities; promoting sustainability performance and enhancing transparency.

One of the achievements of which I have been proudest has been our ability to amplify the voices of diverse stakeholders, including those often underrepresented in mining conversations. Through FMF's

Ministerial Roundtable, a highlevel, government-led meeting, we established the concept of the Super Region, spanning Africa, West and Central Asia. Today, we have become a global voice for this region and amplified conversations aimed at harnessing its vast mineral resources through investment partnerships, technological support and training.

Whether through our focus on sustainable practices, the inclusion of communities in discussions, or the emphasis on innovation to drive environmental stewardship, FMF has strived to ensure that every perspective is heard and valued. This inclusivity has not only enriched our conversations but also strengthened our collective resolve to build a resilient and responsible mineral industry.

As we look ahead to FMF 2025, we are filled with gratitude and ambition. Gratitude for the unwavering support of our partners, participants and collaborators who have made FMF what it is today. We are ambitious to continue raising the bar, fostering deeper collaborations, and pushing the boundaries of what is possible. Our hope is that FMF will not only grow as a leading global forum for the mineral sector, but also inspire others to take bold steps toward innovation, sustainability, drive mineral resilience and shared prosperity.

The future of mining and minerals is critical to the world's economic and environmental goals, decarbonization and the energy transition, and FMF is committed to playing a central role. We have, in no small measure, demonstrated the incredible impact that collaboration can achieve, and together we will continue to shape the future of this industry. On behalf of the entire FMF team, I thank you for being part of this journey, and I invite you to join us in 2025 as we write the next chapter of this new age of minerals under the theme, "The Year of Impact."



14-16January 2025

King Abdulaziz International Conference Center, Riyadh, Saudi Arabia

EXHIBITORS





START UP COMPANIES



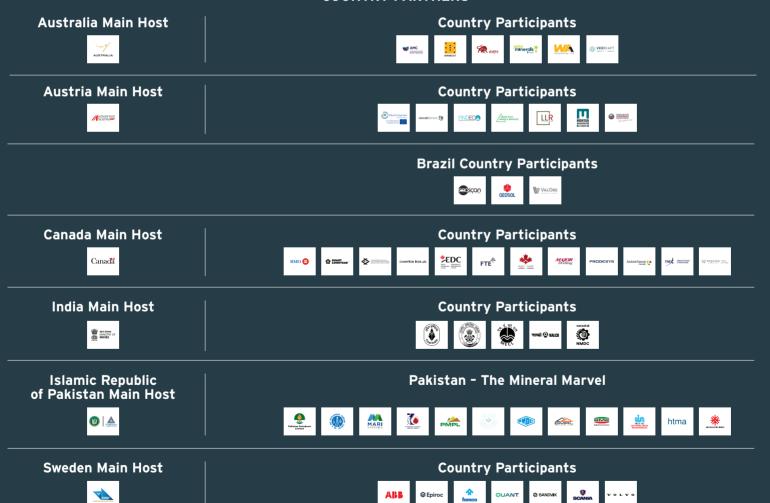
HUB OF EXCELLENCE



MINERAL EXPLORATION HUB



COUNTRY PARTNERS



UK Main Host









→ FOUNDING PARTNER: **ESNAD** STAND: **FP02**

ESNAD: LEADING DIGITAL TRANSFORMATION IN THE MINING SECTOR

he mining industry, a vital cornerstone of the global economy, is undergoing significant transformation driven by the rapid evolution of digital technologies. Our role in this transformation is essential, as we provide cutting-edge digital services that empower the mining sector to achieve unprecedented levels of efficiency, reliability and cost-effectiveness. By integrating advanced technologies such as artificial intelligence (AI) and satellite data, we help streamline operations and improve overall performance.

DRIVING EFFICIENCY WITH ADVANCED TECHNOLOGICAL SOLUTIONS

At the core of this digital revolution is our commitment to delivering innovative solutions to meet the mining sector's needs. Through Ta'adeen, we play a crucial role in supporting the sector's digital transformation by developing solutions that accelerate operations while ensuring high standards of reliability. Al and satellite data integration are critical in enhancing operational efficiency, particularly in areas such as data collection and decision-making. These technologies provide accurate, real-time insights that contribute to informed decision-making.

The goal is to provide comprehensive digital services that enhance the investment experience in Saudi Arabia's mining sector by offering advanced solutions, including modules for licensing, financial compliance, sustainability, and the integration of geospatial and geological data. Through Ta'adeen, we provide over 75 services to more than 3,530 verified users, supporting informed decision-making using tools like GIS, Business Intelligence and satellite imagery. These support economic growth, in



alignment with Saudi Arabia's Vision 2030. Additionally, our digital services contribute to reducing operational costs by providing large-scale, precise data that ensures transparency and supports better decisionmaking, improving performance while maintaining regulatory compliance.

OUR ROLE IN THE DIGITAL ECOSYSTEM

Our focus is not only on providing innovative solutions but also on developing the infrastructure necessary for seamless digital product execution. We ensure the highest quality and are committed to overseeing and monitoring the progress of all digital projects within the mining sector. Our work has been pivotal in enhancing operational efficiency, which, in turn, reduces the need for human intervention, further driving automation across processes.

TAILORED DIGITAL SERVICES FOR THE MINING SECTOR

Our comprehensive suite of digital services is designed to meet the evolving demands of the mining industry and includes:

1. Licensing Services:

We provide a unified digital experience that allows investors to complete all mining sector procedures on a single platform. This solution offers real-time access to a wealth of mining-related services and information, streamlining the

services

We provide over 75 services to more than 3,530 verified users, supporting informed decision-making using tools like GIS, Business Intelligence and satellite imagery.

licensing process and fostering an innovative, data-driven environment.

2. Inspection Services:

Our digital tools for inspection automate control processes based on approved standards, ensuring strict compliance and contributing to sector growth. By offering transparent, accurate data, these services support regulatory adherence and improve overall data quality and work outcomes.

3. Bank Guarantee Services: We simplify the bank guarantee process with secure, automated systems that facilitate easy issuance and cancellation. By integrating electronic links with the financial sector, we ensure real-time and secure data exchanges with banks, accelerating processes and enhancing the reliability of financial transactions.

4. Geospatial Information Services in Mining:

Our geospatial information services manage all the geographic data related to

the mining sector. These services are pivotal in tracking the management of mining complexes and the areas allocated to investors. By integrating historical and current data, we provide comprehensive insights to optimize operations. The geospatial information system aims to analyze and display location and mineral resource data accurately, contributing to the improvement of planning, exploration, and resource utilization processes with high efficiency. Additionally, it enhances environmental sustainability by monitoring environmental impact and ensuring compliance with environmental standards.

5. Modern Technology Services:

Our technology services integrate advanced tools such as satellite imagery, drones, and financial data analysis to enhance supervision, financial compliance, and the processing of license applications. These technologies help improve operational accuracy, reduce delays, and ensure faster, more efficient services, all of which contribute to the optimization of mining operations.

6. Mining Interactive Map: Our Mining Interactive Map is a vital digital tool designed to provide comprehensive geographical data to support strategic decision-making in the mining sector. This offers detailed information about key mining locations, including active applications, licenses, and areas with potential for future investment. It also highlights the locations, royal and natural reserves, along with various other geographical layers. By consolidating this data, the map enables stakeholders and decision-makers to access real-time information and make informed choices about mining opportunities and operational planning.

As the mining sector continues to evolve, our role in providing innovative digital services through Ta'adeen platform becomes even more critical. With our digital services at the forefront, the mining sector is poised for greater efficiency, transparency, and success in the digital age.

For more information, visit smsc.sa/



→ STRATEGIC PARTNER: **VALE** STAND: **SP09**

VALE PLANS GREEN STEEL MEGA HUBS IN THE MIDDLE EAST

ale is a global mining company, one of the world's largest producers of iron ore and nickel and a major copper producer. headquartered in Brazil with operations around the world. Its operations comprise integrated logistics systems, including approximately 2,000 kilometers of railways, marine terminals and 20 ports distributed around the globe. In order to meet the global demand for ore, it has operations, research laboratories, projects and offices spread throughout the five continents.

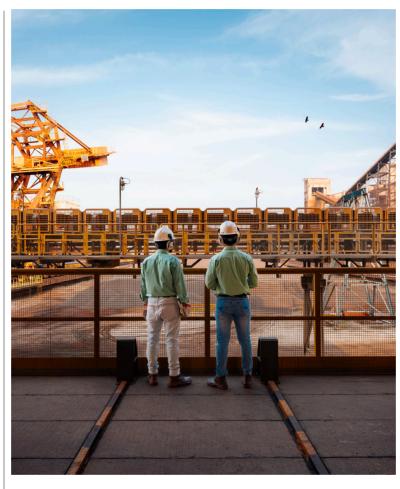
Vale has the ambition to be recognized by society as a benchmark in safety, the best-in-class reliable operator, a talent-driven organization, a leader in sustainable mining. and a benchmark in creating and sharing value.

Mining is essential for the development of the world, and it serves society by generating prosperity for all and taking care of the planet - Vale exists to improve life and transform the future together.

The company first established its operations in the Middle East in 2007 in the Sultanate of Oman and today it is looking to further expand its presence in the Middle East guided by a vision to decarbonize the mining industry.

Cultivating institutional relationships, Vale is committed to building customer-centric Iron Ore Solutions with a clear sustainable goal: to supply the transition to net-zero steelmaking.

The company is developing alternative processes to generate value and propel its decarbonization efforts. including the development of innovative projects, like the Mega Hubs, and high-quality products, such as briquettes. Stemming from its belief



that energy transition is a great growth engine of the next mining cycle, Vale has undertaken public commitments to mitigating impacts by implementing more efficient and sustainable processes and innovative emissions management technology guided by the company's 100-year vision.

Charting a strategic course towards these greener frontiers, Vale is looking to establish three Mega Hubs in the Kingdom of Saudi Arabia, the Sultanate of Oman and the United Arab Emirates, enabling the growth of circular economies and greater value creation. Catalyzing the region's ambitions in the mining industry and in energy transition, Vale's initiatives will enable the development of an integrated green steel industry

The creation of Vale Base Metals, Vale's company focused on Energy Transition Metals which received an investment of US\$ 2.5 billion by Manara Minerals completed in April 2024.

in the Middle East.

A steelmaking ecosystem, these large industrial complexes will include briquetting plants, operated by Vale, that will produce high-quality agglomerated products to significantly reduce CO2 emissions in the steel industry. Leveraging the Mega Hubs

strategic locations on key trade routes, Vale's low-carbon products will be supplies to its clients in the region and international markets around the world

Together, these Hubs will also contribute to Vale's commitment to reduce 15% of net scope 3 emissions by 2035, while it forges ahead with its own commitment to reduce its absolute scope 1 and 2 emissions by 33% by 2030, leading the evolution process towards sustainable mining.

This year, Vale announced a partnership with Jinnan Steel Group to establish an iron ore concentration plant in Oman, which will process 18 million tons of low-grade iron ore annually, producing 12.6 million tons of high-grade concentrate.

Vale intends to replicate this investment model for the Mega Hubs and believes such initiatives could unlock a series of opportunities to serve clients in the Middle East, with Vale providing high quality feed and ensuring supply security.

Saudi Arabia is a key partner in this journey. The creation of Vale Base Metals, Vale's company focused on Energy Transition Metals which received an investment of US\$ 2.5 billion by Manara Minerals completed in April 2024, showcases the thriving strategic partnership between Vale and Saudi Arabia to meet the growing demand for critical minerals, supporting energy security and accelerating the energy transition.

The world is in transformation towards a green era with new economy and the development of products that prioritize sustainability, so decarbonization is irreversibly the path forward.

Vale's critical minerals business produces some of the world's lowest-carbon nickel and copper, directly enabling decarbonized value chains. This, alongside its high-quality iron ore portfolio, positions Vale to be not only the pioneer, but a promoter of a distinctly competitive decarbonized supply chain – in the Kingdom of Saudi Arabia and around the world

For more information, visit vale.com







→ STRATEGIC PARTNER: **ESSAR GROUP** STAND: **SP07**

ESSAR: LEADING THE GLOBAL GREEN TRANSITION

Privately held by the Ruia family, Essar Group is a globally diversified conglomerate with a long history of innovative industrial entrepreneurship. From establishing India's first independent power plant to being the first Indian company to recognize the potential of unconventional energy sources such as coal bed methane (CBM), Essar has consistently pioneered successful industrial projects with out-of-the-box thinking.

ssar excels in investing in, developing, and managing large-scale assets across numerous major economic sectors, including: Energy, Infrastructure, Metals & Mining, and Technology & Retail. In each of these, Essar strives to maximize its contribution to local economies while ensuring development is both sustainable and tailored to optimize each project site's strategic advantages.

A HISTORY OF SUCCESS WITH COMPLEX, LARGE-**SCALE FACILITIES**

For decades, Essar has been building industrial facilities that leverage a high degree of integration to achieve superior levels of efficiency. Two prominent examples are the 20 MTPA refinery in Vadinar and 10 MTPA steel plant in Hazira, both located in the Indian state of Gujarat. Each facility is backed by robust support infrastructure-including power plants, ports, rail connectivity, and utilities—that facilitates stable energy supply and the seamless transport of materials, ultimately resulting In multibillion dollar valuations for each.

Hazira: a monument to engineering prowess

Particularly noteworthy, Essar's flagship steel plant in Haziradivested in 2018-is one of India's largest integrated steel production facilities, boasting a comprehensive hub comprising: six Midrex direct reduced



The Hazira integrated steel complex in Gujarat, India

iron (DRI) modules; electric arc furnaces (EAF); hot strip, continuous, plate, and pipe mills; cold rolling; color coating; and hot-dip galvanized iron (HDGI)

Hazira offers a range of worldclass steel products from coils to customized and value-added steel. Furthermore, it benefits from upstream assets such as iron ore beneficiation, pellet manufacturing (14 MTPA), and 250 km slurry pipelines from mine to pellet plants for efficient and environmentally friendly operations. This configuration has led to the Hazira complex being able to continuously demonstrate an impressive utilization rate of approximately 90%.

And Hazira is no exceptionit's the standard. All of Essar's projects aim to achieve unprecedented levels of efficiency and sustainability, which includes having on-site water treatment plants and capturing waste-to-wealth opportunities wherever possible.

GOING GREEN, GLOBALLY

With \$15 billion in annual revenues and \$9.6 billion in investments, Essar continues to seek out attractive opportunities for future growth and further its legacy of industrial trailblazing. To that end, the group is heavily investing in sector-transforming technologies to decarbonize its operations. This means applying Essar's entrepreneurial ethos to rethink traditional industrial applications to arrive at novel, more carbonefficient solutions, such as using hydrogen to power oil refineries and LNG as fuel for long-distance trucking. Essar views every challenge as an opportunity and decarbonizing heavy industry as the opportunity of a lifetime.

Essar Energy Transition (EET), United Kingdom

In the UK, Essar is investing over \$3 billion in its EET initiative, which will drive the creation of Northwest England's leading energy transition hub. This includes building a 4 GW

hydrogen production facility. developing the UK's first lowcarbon refinery and carbon capture facility at Stanlow, creating storage and pipeline infrastructure, establishing a hydrogen power plant, and producing 1 MT of low-carbon biofuels. EET's investment program will play a major role in accelerating the UK's low-carbon transformation, supporting the reduction of around 3.5 MT of carbon dioxide each year.

Mesabi Metallics, USA

In Minnesota, Essar has invested over \$1.8 billion to revitalize the Mesabi Iron Range by developing a 7 MTPA iron ore mining and pelletization facility. With production starting in early 2026, this facility will employ state-of-the-art green mining and pelletizing processes to produce some of the lowestcarbon-intensity, DR-grade iron ore pellets in the world, further enabling the decarbonization of an important aspect of the steelmaking process.

Essar Green Steel, Saudi Arabia

Another notable initiative is Essar's 4 MTPA flat green steel complex in Ras Al Khair, Saudi Arabia. This facility will incorporate nextgeneration energy sources, including hydrogen, along with state-of-the-art DRI and EAF technologies to produce high-grade steel with minimal carbon emissions. Strategically located near a critical port, the complex integrates cuttingedge infrastructure to support efficient operations. This project will not only enhance Essar's global footprint but also contribute to decarbonizing steel production, which is responsible for up to 9% of global carbon emissions each year.

EYES FORWARD

As Essar continues to innovate and expand its presence, the group remains committed to driving sustainable growth and fostering technological advancements that shape the future of core economy sectors. At Essar, we're looking ahead. Join us and let's build the future together.

For more information, visit essar.com







MINISTERIAL ROUNDTABLE: THE WORLD'S LARGEST **GOVERNMENT GATHERING ON MINERALS**

The prestigious opening event of the Future Minerals Forum 2025 on January 14th will be the fourth Ministerial Roundtable. This unique and inclusive meeting brings together senior government representatives from around the world to collaborate in finding common ground to develop resilient mineral supply chains.

he Ministerial Roundtable is the world's only government-led platform, convened by Saudi Arabia and owned by all participating governments, for seeking to work together to produce the minerals the world needs for the energy transition. It shapes the agenda on minerals by identifying and implementing practical actions to create resilient and responsible mineral value change.

Our 2025 meeting will bring together more of the super region's most eminent government representatives than ever to further regional collaboration on the sustainable development of the minerals and mining industry. At the Roundtable they will discuss the huge untapped potential of this emerging area and explore how critical minerals can become a major development driver in their countries.

More than 80 governments will be represented, including 15

of the G20, as well as more than 40 international organizations. Also in attendance will be multilateral organizations, NGOs and business associations, including the World Bank, UN and UNIDO.

Previous meetings of the Roundtable have shown the historic significance of the event and that it is now regarded as the primary place where global action on minerals is formulated. Just as the Future Minerals Forum is the only truly global

More than 80 governments will be represented, including 15 of the G20, as well as more than 40 international organizations. Also in attendance will be multilateral organizations, NGOs and business associations, including the World Bank, UN and UNIDO.









MINISTERIAL ROUNDTABLE الاجتماع الوزاري





forum for shaping the future of minerals, the Ministerial Roundtable is the only government-level gathering to focus on the subject. Together, its participants show that the world's energy ambition is matched by their commitment to bringing meaningful change to mineral production so that it can bring social and economic prosperity to their countries.

This 2025 meeting will take forward the actions agreed at the previous Roundtable, at which - amongst many others - governments supported the development of a regional Sustainable Future Minerals Framework and acknowledged efforts by international organizations to consolidate sustainability standards in the minerals sector.

It will also hear updates on the creation of the Mineral Innovation and Acceleration Park in Riyadh - the first phase in the creation of a global network of centers of excellence aimed at building capacity.

The Ministerial Roundtable 2025 will demonstrate the power of partnership and the progress that can be achieved by collaboration and coordination between governments and their partners from the private sector and civil society.

2025 INTERNATIONAL GEOLOGICAL SURVEY MEETING

The FMF will also once again play host to the annual International Geological Survey Meeting (IGSM).

This exclusive event will bring together some of the world's leading geological experts and survey leaders with the aim of:

Leveraging international collaboration to invest in geological surveying across the Super Region covering Africa, Western and Central Asia

- Modernizing and making publicly available digitized geological survey data from across the Super Region
- Supporting capacity building through the centers of excellence initiative

This second annual meeting of the IGSM will support opening up the rich potential of the Super Region's mineral resources



The Ministerial Roundtable 2025 will demonstrate the power of partnership and the progress that can be achieved by collaboration and coordination between governments and their partners from the private sector and civil society.

and will connect experienced organizations with developing countries. It is a means of sharing know-how and will play a crucial role in introducing knowledge and technology to the countries where it is needed most.

Saudi Arabia and its neighbors in the Super Region host many of the critical minerals deposits the world needs to enable its transition to cleaner energy. It is a unique geological endowment, containing more than half of the world's reserves of minerals critical to the energy transition. However, the region is underexplored with the lowest exploration spend of any region globally.

Participants at the meeting will therefore work towards gaining a better understanding of the Super Region's geological potential, and the surveying capability challenges that exist around the world.

Without having identified exactly where the minerals are located, to what degree of certainty they occur, and without the ability to create reliable geological data on which investors can base decisions, the world risks not being able to produce enough material to meet its vast demand.

The IGSM reflects the critical importance of the geological perspective in delivering what the world needs to achieve for a sustainable future.





PARTNERING FOR THE ENERGY TRANSITION

The structural megatrends of the upcoming decades, coupled with global economic development and population growth, will require significant growth in commodities supply, writes Catherine Raw, Chief Development Officer at BHP

or example, we expect copper demand to grow by about one million tonnes every year, 2.6 per cent per annum until 2035, driven by electrification and the energy transition. This is equivalent to the annual output of our Escondida operation in Chile, the world's largest copper mine. Global demand for potash is expected to grow by around 70 per cent by 2050 - driven by rising population and improving living standards, but also changing diets and the need to improve productivity of existing land.

This means there's a strategic imperative to secure critical minerals supply chains, the likes of which the world has not seen since the industrial revolution. But delivering new resources to market is difficult. New deposits are increasingly deeper, lower grade, or in countries with more challenging operating conditions. Overlay an ever-increasing geopolitical complexity and the result is that the way we have explored, extracted and developed minerals in the past will not be enough to meet the demands of the future.

Collaboration and partnerships across industry, investors, government and communities will be key to derisking and accelerating the development of new resources.

Global mining companies have an opportunity to help enable benefits to flow to all stakeholders, and a responsibility to ensure that their environment, sustainability and governance standards are best practice. For mining to be a trusted partner, there needs to be a level playing field, one where all developers – private, public or state owned – are held to the same standards and play by the same rules. This



Making copper cathode at Escondida, Chile



Collaboration and partnerships across industry, investors, government and communities will be key to derisking and accelerating the development of new resources."

means the right combination of funding, regulation and policy are key to driving investment, and we all have a part to play.

Governments must stay focused on the fundamentals that drive investment and competitiveness, and the economic growth, jobs and prosperity that flow from both. The market needs strong institutional and regulatory confidence. Getting the policy environment right is critical



Catherine Raw, Chief Development Officer at BHP

to encourage investment. Pragmatic international cooperation and competition can jointly accelerate the energy transition.

It is well known that mining requires large upfront capital that can take many years to start generating revenue, yet public markets tend to have a much shorter investment timeframe. Consequently, our investors require a balance between long-term growth and near-term returns. Furthermore, significant commodity price volatility increases investment risks, particularly for marginal

assets. We must be diligent in allocating capital to maximise value and returns - keeping both the short- and long-term in mind. In return, investors need to back companies that have a track record of operational excellence, a strict adherence to capital discipline, accountable social value delivery and a proven commitment to sustainable returns.

In the communities where we operate, we want our presence and success to be driven by a spirit of genuine partnership, not by transactional interactions. For BHP, we see our ability to add social value alongside financial value as a strategic enabler and a differentiator - etched into our decision-making. We've found that this approach helps create a competitive advantage: better access to resources, markets, partners, talent and capital.

Driving innovation and technological advances also requires a partnership approach. We see it as the responsibility of industry to support investments in technology start-ups to develop the next generation of technologies that will transform our approach - whether it's the application of AI, advances in leaching technology, or investments in operational decarbonisation technologies.

It's important to approach the challenges of developing new resources with a view of creating win-win partnerships through the supply chain. This includes co-creating solutions with our partners to enable early buy-in and alignment at the start of any project.

Saudi Arabia is demonstrating innovation in seeking energy transition solutions that are part of driving this tremendous shift in commodity markets. The Kingdom's forward-leaning approach and commitment to develop and process minerals, and bring together global participants, partners and capital, is exciting. Saudi Arabia's impact on the sector and supply chains over the coming decades could well be profound.

We are excited to be here and, together with the other participants, we look forward to participating in the discussions at Future Minerals Forum 2025.

► For more information, visit bhp.com







ANGLO AMERICAN: RESPONSIBLE COPPER IS THE ONLY WAY TO MEET THE NEEDS OF OUR PEOPLE AND PLANET

If society is to meet the generally agreed objectives of securing a cleaner future for our planet and the living standards expectations of a growing population (including food security), we need a host of metals and minerals to be extracted in unprecedented volumes over the coming few decades, writes Duncan Wanblad, CEO of Anglo American.

he UN Sustainable **Development Goal** #1 of achieving "No Poverty", in addition to electrifying the global economy, both depend on one metal in particular: copper. There are no developed countries without a large installed stock of copper: in developed countries, there is >200 kg of copper 'in-use' for every person, while in developing countries, it is <70 kg per person. Without sufficient copper, living standards will not improve at the desired pace, let alone will we deliver a global fleet of electric / hybrid vehicles, widespread renewable power generation or data centers which underpin emerging AI technologies.

Here lies the problem: though copper supply is forecast to rise in the near-term, there is a structural undersupply of copper in the medium and long term.

The solution cannot be to bring more copper to market irrespective of the cost. If the extraction of copper is to the detriment of the environment, host communities and sovereign governments, then our efforts will be counterproductive and will fail in short order. To meet these basic societal objectives, we need responsible miners with the technical capability, the track record of bringing major new mines online with a sustainable social licence, and of course



Anglo American's brand new Quellaveco copper mine in Peru

with access to the right resource endowments. There may be a handful or so of such companies today - and we need more of them.

Anglo American is one of the world's leading mining companies. Over the last century and more, we have innovated and evolved to become who we are today - a company that does things in the right way, very much guided by our purpose of re-imagining mining to improve people's lives. We are well known for our deep operating experience, including in southern Africa where our company began and where we have operated successfully and without interruption ever since. Having spread our wings in the last 50 years, first to Canada and Brazil, then Chile and Peru, and more recently progressing new options in the UK and Europe, our global footprint and deep relationships with partners across the mining



Duncan Wanblad, CEO, Anglo American

ecosystem reflects a shared perspective we have with the Future Minerals Forum. Namely, that as an industry, we can only bring more supply to market responsibly with greater global collaboration, and we therefore welcome the FMF's approach in bringing together senior government representatives from around the world to collaborate in finding common ground to develop resilient

mineral supply chains.

In Anglo American's case, we know that value lies in the confluence of capabilities, track record, and outstanding resource endowments. We have built a portfolio that offers us a series of well-sequenced growth options, including most notably in copper. We have 3 of the top 10 producing copper mines in South America, set for multiple decades of competitive production and growth. Whether at our Los Bronces copper mine in Chile that is now more than 150 years old, or at and around our brand new Quellaveco mine in Peru where we started up production in 2022, or our project phase Sakatti polymetallic opportunity in Finland, we have a defined pathway to >1mtpa of copper production by the early 2030s, and we expect to push further as we firm up other opportunities in the years ahead.

And that is before we consider

In developed countries, there is >200 kg of copper 'in-use' for every person, while in developing countries, it is <70 kg per person.

what Zambia, the DRC and Angola may have to offer as extraction technologies improve the economics of lower grade ores and help solve water and other constraints. Safe, responsible copper is a must, but equally a challenge, though we have plenty of reasons to be optimistic. With engagement in forums like the FMF and with the right governmental and societal support, putting development at the centre of a truly long-term mindset, we can deliver projects that not only deliver economic benefit, but contribute to the sustainable development of humankind as a whole. I look forward to making progress on this at the upcoming edition of the FMF.

For further information, visit angloamerican.com







WHAT IS THE FUTURE MINERALS FORUM?

A unique three-day event, FMF serves to foster strategic engagements and knowledge sharing within the mining and minerals industry.

he Future Minerals Forum (FMF), held in Riyadh, Saudi Arabia, is now well-established as the leading global platform for shaping the future of critical and strategic minerals. These can power a sustainable future and deliver lasting value to the countries in which they are produced and processed.

Marking its fourth year, and bigger than ever before, the FMF is a government-led, multistakeholder initiative, convening governments, businesses and other stakeholders from Africa, West and Central Asia, and the rest of the world, to enable the creation of resilient and responsible minerals value chains.

The Government of Saudi Arabia created the Future Minerals Forum as part of its efforts to expand sustainable mineral and metal exploration, extraction and processing in the Kingdom and around the world in ways that benefit everyone.

THE FORUM'S CLEAR **GOALS ARE:**

- To enable the development of resilient and responsible minerals and metals industries in the minerals 'super region' of Africa, West and Central Asia and other host countries, by attracting investment, deploying digital and other advanced technologies, and applying high standards for sustainability performance.
- To place the region at the center of a global conversation on the future supply of critical and strategic minerals.

This region not only has a vast mineral endowment but is a large and growing market, with access to capital. It represents a canvas on which to develop modern mining industries that meet ever higher societal expectations on sustainability.

But such a huge task requires collaboration on a grand scale -

With the minerals industry converging on Rivadh for the event, this represents a priceless opportunity to network and explore business opportunities with some of the most senior industry professionals from around 145 countries.

hence the creation of the FMF. It provides a platform for experts - everyone from senior government officials to major mining company CEOs, cutting edge technology businesses and NGOs - to collaborate on defining what the region

Over the course of its ground-breaking four years, the Forum has moved well

requires.

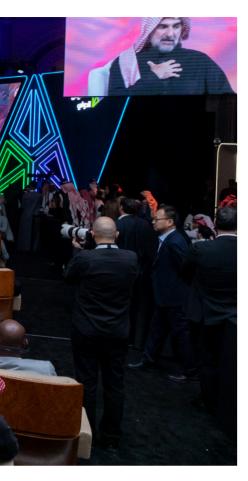
beyond mere discussions and is focused on action, with initiatives underway to enhance cooperation and coordination in the mineral sector, develop centers of excellence to help build capacity and become part of minerals strategies in the super region.

Attendees can expect diverse sessions, including a ministerial roundtable, international geological survey meeting, conference, country pavilions, exhibition and networking events.

SIX REASONS TO ATTEND FMF2025

- 1. The FMF provides the chance to play a part in the largest, truly global multistakeholder platform for shaping the future of minerals - and in the fastest growing part of the world.
- 2. With the minerals industry converging on Riyadh for the event, this represents a priceless opportunity to





network and explore business opportunities with some of the most senior industry professionals from around

3. Participants are able to share

expertise, collaborate and

forge partnerships through

features of the FMF such as

for companies to meet each

the "speed dating" events

4. They can also hear from over

and mining industry, in the

nearly a third of whom work

company of an audience,

at C-level or above.

executives in the metals

100 of the most senior C-suite

145 countries.

other.









Marking its fourth year, and bigger than ever before, the FMF is a government-led, multistakeholder initiative, convening governments, businesses and other stakeholders from Africa, West and Central Asia, and the rest of the world, to enable the creation of resilient and responsible minerals value chains.

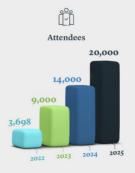
- 5. The Forum also provides the opportunity to gain insight and see practical, hands-on demonstrations of some of the most advanced minerals and metals solutions and technologies from leading international organizations.
- 6. Participants at the FMF are there to turn talk into action as the event helps to forge the value chains that will support the security of supply of critical minerals for the energy transition.

FUTURE MINERALS FORUM EVOLUTION









2025 YEAR OF **IMPACT** Riyadh welcomes you to the world's largest gathering on minerals









CONFIRMED SPEAKERS



H.R.H. Prince Abdulaziz bin Salaman Al-Saud Minister of Energy



H.E. Khalid Al-Falih Minister of Investment



H.E. Mohammed Al Jadaan Minister of Finance



H.E. Bandar Al Khoravef Minister of Industry and Mineral Resources



H.E. Saleh Al Jasser Minister of Transport and Logistics Services



H.E. Khalid Al-Mudaifer Vice-Minister for Mining Affairs, Ministry of Industry and Mineral Resources



H.E. Jasem Mohamed **AlBudaiwi** Secretary General, Cooperation Council for the Arab States of the Gulf



Dominic Barton Chairman. Rio Tinto



Bob Wilt Chief Executive Officer, Ma'aden



Duncan Wanblad Chief Executive, Anglo American



Maximo Pacheco Chairman, Codelco



Jinahe Chen Executive Chairman, Zijin Mining Group



Tom Palmer President and Chief Executive Officer. Newmont



Jeremy Weir Executive Chairman / Chief Executive Officer. Trafigura Group



Dr. Mark Bristow President and Chief Executive Officer. Barrick Gold Corporation



Steele Li Vice Chairman and Chief Investment Officer. **CMOC Group**



Catherine Raw Chief Development Officer, BHP



Robert Friedland Founder, Ivanhoe Mines, Ivanhoe Electric, and I-Pulse



Jonathan Price Chief Executive Officer, Teck Resources



Mark Cutifani Chairman. Vale Base Metals



Joe Kaeser Chairman of the Supervisory Board, Siemens Energy & Daimler Truck



Mohammad A. Abunayyan Chairman. ACWA Power



Bill Oplinger President and Chief Executive Officer, Alcoa Corporation



Randy Smallwood President and Chief Executive Officer. Wheaton Precious Metals



Alexey Vostokov Chief Executive Officer. Polyus



Graham Kerr Chief Executive Officer. South32



Pierre Chenard Chief Executive Officer. Manara Minerals Investment Co



Marna Cloete President. Ivanhoe Mines



Tristan Pascall Chief Executive Officer. First Quantum Minerals



Andrew Southam Chief Executive Officer. **KAZ Minerals**

DISCLAIMER: This speaker list was confirmed at the time of publication. We kindly note that unforeseen circumstances may result in the absence of certain speakers.





LONG-TERM INVESTMENT RETURNS AND A POSITIVE SOCIAL DIFFERENCE

Established in Cape Town in 1991, Ninety One has grown beyond Africa to span the US, Europe, the UK, Asia, Australia and the Middle East. With 20 offices in 15 countries, and more than 240 investment professionals, Ninety One now has over US\$170bn of assets under management. Its Chairman Gareth Penny explains more.

e are an active, global investment manager with distinctive capabilities in differentiated fixed income and credit as well as specialist equities. Our goal is to provide long-term investment returns for our clients while making a positive difference to people and the planet. We have a unique perspective and approach to the investment opportunities presented by emerging markets and the energy transition.

We believe active investing can be a force for good. Being a global investment manager with an emerging market heritage influences our approach. We bring a special perspective to



We believe that we have a responsibility to engage actively in the energy transition and use our influence and experience to encourage and assist countries and companies to decarbonise. "



Gareth Penny, Chairman, Ninety One

active investing, which lets us find opportunities for clients in all kinds of places.

We want to be socially useful in allocating capital. Here, we apply our experience as well as pragmatism. As fiduciaries of our clients' money, while we advocate for positive change in the world, we want to profit from the innovation and evolution that change brings. Our approach combines traditional capitalist thinking with modern development ideas, but our goal, always, is to help our clients achieve their long-term investment objectives.

We believe that we have a responsibility to engage actively in the energy transition and use our influence and experience to

encourage and assist countries and companies to decarbonise.

Investing in mining and processing companies that can provide the materials needed to grow renewable energy, as well as those who can increase recycling and energy efficiency, are key areas for us. Our aim is to support countries and companies by investing in their debt and look to help them establish innovative forms of finance such as green bonds.

Fossil fuels will be required for many years as the world transitions its sources of power and we recognise the need to help energy companies and also countries to transition in an effective, sustainable and just way. We manage strategies in equity, debt and credit, both

public and private, targeted at assisting decarbonisation, energy transition and emerging economies.

The Kingdom of Saudi Arabia and the MENA region are a growing area of focus for Ninety One. The desire to develop a sustainable and thriving economic area and, in particular, to grow fully integrated supply chains of critical minerals and products excites us as investors. There is an urgent and increasing need to increase the supply of critical minerals and the MENA region is an ideal location. Not only does it have resources of much needed metals such as copper. zinc, rare earths but also it has the energy, skills and space to process and add value to those minerals.

The Future Minerals Forum is vital to bring Governments, companies and investors from around the world who can assist the Kingdom in unlocking the value it clearly has in order to provide critical minerals and products for both domestic and export markets. As investors in many markets, we see firsthand the need for these materials and the urgency required to provide them in the most efficient and sustainable methods possible.

With an office in Riyadh and licenced by the CMA, Ninety One is committed to assisting the Kingdom in achieving its ambitious goals laid out in Vision 2030. We are bringing investors from around the world as well as our broad experience in development finance along with decades of know-how in natural resources. Our aim is to provide strategies focused on the region which allow global investors to access the region and to help local investors allocate capital in the most efficient and effective way.

We are excited to be participating again in the Future Minerals Forum and look forward to meeting a wide range of companies and investors at the event. As the Kingdom advances towards its Vision 2030 goals we are proud to be able to help it succeed in a sustainable manner, generating growth and returns as well as progressing the energy transition more broadly.

► For more information, visit ninetyone.com







FOCUSED ON ENERGY TRANSITION METALS

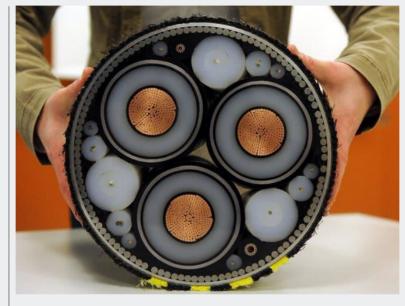
The energy transition has enhanced the case for copper. EMR Capital has decades of experience producing copper.

MR Capital is a specialist resources private equity manager and operator with over 300 years of combined operational and investment experience. We have owned and successfully managed numerous operations and projects globally over 4 decades. We add value by leveraging our deep experience, and through the application of new technology, processes and infrastructure.

EMR Capital is a market leader in metals and minerals investment, offering an alternative form of financing through a private equity structure. We have ~US\$3bn of funds under management. These funds plus debt have been channelled into mining projects worldwide, enabling new project development and production expansion.

EMR Capital is committed to promoting responsible mining by showcasing excellence in ESG management in everything we do. ESG is at the forefront of all our decisions through the life cycle of an investment, from the consideration of opportunities, the management of assets, and a commitment to handover assets with a strong ESG record on exit.

EMR Capital is active in the use of centers of excellence both internally and in collaboration with the global mining community. As a manager, our core team shares its wealth of experience to add value to our portfolio companies, particularly in the areas of geology and exploration, operational efficiency, ESG management, project management, and financing. A recent focus has been on the application of new technologies including the potential implementation of cutting edge AI at existing and future assets. More broadly, our key personnel have a long history of championing the Australian mining industry by serving and supporting key institutions including AuslMM,



300

EMR Capital has over 300 years of combined operational and investment experience. We have owned and successfully built and managed numerous operations and projects globally over 4 decades.

the Melbourne Mining Club, and several Government and industry advisory bodies.

The Energy Transition has been positive for our business; the fundamentals of a broad range of materials have improved, new funding opportunities have emerged, governments are incentivized to increase support for the sector, and the broader community has a greater appreciation for the role of the industry. However, this thematic which has come to the fore in the last 5 years has not altered our long-standing strategy of identifying and transforming promising assets. Our Critical Minerals Strategy is to keep doing what we have

always done, and embrace the opportunities presented by improved commodity fundamentals and a greater focus on the industry.

EMR Capital contributes to developing green minerals value chains by investing in assets and increasing production responsibly. Through our decades of experience, we can identify the best opportunities and drive projects forward by linking key stakeholders including investors, financiers, operators, suppliers and customers. We are also proud to offer our support to local and international governments and advisory bodies developing their critical minerals strategies and building value chains in what is a complex and dynamic industry.

Our favourite critical mineral is copper. In fact, it has been one of our favourite commodities for many decades, pre-dating the terms energy transition and green minerals. Copper's superior role as a conductor of electricity makes it a necessary component in all green energy applications. It also meets our additional criteria of having a large liquid market with low substitution risk.

We have decades of experience discovering,



EMR Capital is a specialist resources manager and operator focused on the energy transition. We have a proven track record in successful resource development and operations.

developing, and optimizing copper mines. A recent success story is the Lubambe copper mine in Zambia which has one of the world's largest and highest-grade copper projects. EMR Capital expanded existing production and expanded resources of the extension project prior to divestment.

Other EMR Capital success stories include the Ravenswood Gold mine in Queensland where capacity has been increased to support ~200kozpa for 10+ years, and the Kestrel Coking Coal mine which under EMR ownership has been one of the most productive underground longwall metallurgical coal mines in Australia.

We believe that the greatest challenges for the mining industry today are financing, labour shortages, the fast tracking of technologies to enable decarbonization, and adequate support from Governments. Global collaboration and knowledge sharing through events such as the Future Metals Forum assist to address these challenges.

EMR Capital Executive
Chairman Owen Hegarty was
awarded the Order of Australia
Medal (OAM) for service to
the Australian mining and
minerals sector. He is proud
to be a regular contributor
to the Future Metals Forum,
discussing a range of issues that
the minerals industry needs to
address to succeed.

For more information, visit emrcapital.com





YEAR OF IMPACT: MA'ADEN'S ROLE AS A GLOBAL MINING CHAMPION

s we look towards the Future Minerals Forum 2025 (FMF25), it is opportune to reflect on the significant impact minerals have played in human history, and how with the minerals we are mining here in the Kingdom, Ma'aden is shaping a better future. Mining has been a cornerstone of technology and civilization since ancient times. Just as with the ancient discoveries of gold and copper, it inspired advancements in tool making and technology that transformed the world. The commodities that we mine today, together with the innovations we are deploying, will drive the next era of human progress and development.

BUILDING A SAUDI MINING CHAMPION

Ma'aden is a proud Saudi Arabian company, and the custodians of an ancient legacy of mining in the Kingdom. The Mahd Ad Dhahab gold mine, that Ma'aden continues to operate today, has been used for over 3,000 years. Although we are a relatively young company, founded in 1997, mining has long been integral to the region's heritage and prosperity. We are proud to write the next chapter of the story, using Saudi Arabia's rich mineral endowment as a catalyst for a new age of economic and technological growth, creating a lasting impact across the Kingdom, the region, and the world.

The minerals that we produce are vital to the development of future industries in the Kingdom, including advanced downstream manufacturing, with the potential to generate tens of thousands of jobs and make a massive contribution across the Saudi economy. As an example, the aluminium we produce is used to make products as



Bob Wilt, CEO, Ma'aden

diverse as soda cans, renewable energy infrastructure or electric vehicles right here in the Kingdom. In one of our most ambitious projects to date, we are undertaking one of the world's largest single-jurisdiction exploration programs here in Saudi Arabia, placing us at the forefront of efforts to discover new mineral deposits, as global markets strive to meet the demands of electrification and the energy transition.

Being an ESG role model in the Kingdom, and the industry, is integral to our strategy. We have committed to carbon neutrality by 2050, and we are delivering on this goal by reducing energy consumption and increasing use of renewables while also pioneering CO2 capture technologies at our operations. We are also delivering a major afforestation initiative program to plant 20 million trees by

2050

We have committed to carbon neutrality by 2050, and we are delivering on this goal by reducing energy consumption and increasing use of renewables while also pioneering CO2 capture technologies at our operations.

2040, contributing to the Saudi Green Initiative.

SUPPORTING RESILIENT GLOBAL MINERAL VALUE CHAINS

Saudi Arabia's geographic position between Europe, Asia, and Africa, and our strong trade links to the Americas, place us at the centre of some of the world's most important supply chains. Our relevance to the global economy will only continue to increase as we achieve our ambitious 2040 company growth strategy and help to build the minerals sector as the third pillar of the Saudi economy.

When we consider the phosphate produced by the Kingdom, we can see the globally significant role that Ma'aden and Saudi Arabia are already playing in supporting global prosperity. Phosphate fertilizers are essential for strong crop yields which underpin global food security, fostering social and economic stability, encouraging business investment and driving economic growth. This is the perfect example of how mineral production can play a central role in sustaining the virtuous cycle of prosperity and development globally.

EMBRACING TECHNOLOGICAL AND HUMAN INNOVATION

Ma'aden has made a commitment to thriving as a technology-enabled and peoplecentric mining champion. Our use of advanced technologies, including AI and automation, is about enhancing the skills and capabilities of our people, not replacing them. We are focused on investing in our people and providing them with the best training and tools available. We prioritize the well-being and development of our employees as we recognize that we can only succeed thanks to their dedication and expertise. We are also committed to developing the next generation of Saudi mining talent by making significant investments in our partnerships with schools and universities, as the education and skills we provide the youth of today will determine our success tomorrow.

As we approach FMF25, I look forward to addressing these issues with global industry peers, so that we can work together to provide the resources for the world of tomorrow. Together, we can turn challenges into opportunity and turn action into positive impact, ensuring that the sector drives growth and innovation globally.

► For more information, visit maaden.com.sa







EPIROC: ENABLING THE SUSTAINABLE AND PRODUCTIVE MINE OF THE FUTURE

Epiroc provides mining equipment such as drill rigs, loaders and trucks, as well as rock drilling tools. The company's broad aftermarket offering includes a vast network of skilled service technicians stationed on mining sites around the world. When it comes to hard-rock mining, such as for copper and gold, Epiroc is a market-leading equipment and solutions provider.

he Sweden-based company's roots go back to 1873 as part of Atlas Copco, and in 2018 Epiroc became an independent listed company. It sees itself as a 151-year-old startup company, with deep experience yet quick footed and ahead of the innovation curve. Its 19,000 employees globally are continuously trained to focus on the customer's needs. Its ambitious sustainability goals include halving emissions for own operations, transport, suppliers and machines sold by 2030. The goals were launched in 2020 shortly after Helena Hedblom, who started her career with the company as R&D engineer more than two decades earlier, took over as President and CEO

FUTURE OPPORTUNITIES TOGETHER IN SAUDI ARABIA

Epiroc is keen to support customers around the world with equipment and solutions that make the mining companies perform their work in the most environmentally responsible and efficient way possible.

"We look forward to collaborating with customers active within the mining industry in Saudi Arabia and supporting them on their journey towards sustainable and productive operations," Helena Hedblom says. "Together, we have the potential to develop world-class mining operations, including digital solutions with the most



Helena Hedblom, President and CEO, Epiroc

advanced safety features."

Epiroc is investing more than ever in R&D, especially within automation, digitalization and electrification. These three technological areas are changing the mining industry in a very positive way - strengthening miners' productivity and safety while lowering emissions and total cost of ownership.

AUTOMATION

Epiroc offers market-leading solutions in automation and autonomous operations for drilling, loading and hauling. The solutions allow mining companies, for example, to remove operators from

potentially dangerous situations, enabling them to instead work in safe and comfortable control rooms. For underground specifically, the company's "Deep Automation" solutions can be used for all types of mining operations, from small stoping to large block caving.

Epiroc provides driver-less, autonomous solutions for either a single machine or an entire mixed fleet of machines regardless of manufacturer or type of equipment. Many customers want to connect a fleet of machines from different manufacturers and have these work together fully autonomously. Epiroc is

convinced that mixed-fleet automation is the way of the future, and it is currently collaborating with customers to achieve this.

DIGITALIZATION

Epiroc's goal is to support customers in their whole production flow. It provides a wide range of digital solutions that strengthen miners' operations from pit to port, including critical network and infrastructure solutions for seamless connectivity

Benefits that customers experience from the digital solutions include real-time information and asset tracking. increased drilling efficiency and quality, and informed operational decisions. In short: safer people and improved productivity.

Recognizing that safety is a top priority for the mining industry, Epiroc offers all levels of collision avoidance, including Level 9, the highest level which ensures that if the machine operator does not act when a collision is approaching, the system automatically intervenes

ELECTRIFICATION

Epiroc is also offering a growing range of machines in electric version, either with battery or cable. Switching to an electric solution comes with many benefits for miners, the most obvious being significantly reduced emissions in operations. Less emissions also means a healthier work environment for the operators thanks to less heat, noise and vibration from the machines; this, in turn, leads to employees feeling better and becoming more productive. Electrification also reduces the need for ventilation underground, which is otherwise typically a significant cost of the mining operation.

"We are transforming the mining industry to be much more sustainable and productive than it has been in the past," says Helena Hedblom. "The best opportunity to implement the new technologies and show what the mine of the future can look like is with entirely new mines, socalled greenfields, such as those that may be developed in Saudi Arabia. It's a very exciting time."

For more information, visit epiroc.com







FREQUENTLY ASKED QUESTIONS

1. Where is the Venue for FMF2025 in Riyadh?

The event will take place 14-16 January 2025 in King Abdulaziz International Conference Center (KAICC).

2. Are there any costs to attend the Future Minerals Forum?

There are no fees to attend as a delegate.

3. When and how can I register?

You can register and apply to attend using the QR code on this Preview.

4. Where can I collect my badge? With my ID or will a QR code be provided?

The Badge Collection Center for Delegates is located at the Registration Room of the KAICC.

Address: 3478 North Ring Road Exit 4, Al Ghadeer District, Riyadh

All delegates must present the QR code that was sent to them in advance as confirmation of registration to collect their badges.
Also ensure you carry photo ID.
You must have your badge prior to entering

5. I have registered but have not received my confirmation email with QR code.

Please contact the FMF Delegate Registration team at https://www. futuremineralsforum.com/registration

6. How do I access KAICC?

You must collect your badge first in order to access KAICC.

7. What is the Event Dress Code?

For women and men: Smart business casual attire is expected during the official Future Minerals Forum. Please also be mindful that the night-time temperature in Riyadh can be chilly.

8. How can I register to attend the Ministerial Roundtable?

Unfortunately, the Ministerial Roundtable is open only to ministers and their delegations as well as select corporations invited by the ministry and the attending ministers.

9. How do I get visa support?

Please email us at: visa@ futuremineralsforum.com To be eligible to receive a visa, your passport must be valid for at least 6 months after your travel to Saudi Arabia.

10. What are the event hotels that have been contracted for the event?

All delegates are responsible for booking their own accommodation.

Please contact our dedicated team for available hotels, car rentals, and other related services:

Mr. Salahaldin Mohamed: +966595014352 or salah@saudipremiergroup.com
Mr. Zakir Kahn: +966593344296 or z.khan@saudipremiergroup.com

11. Where can I see the agenda of Conference?

The conference agenda of the Future Minerals Forum is published on the website.

12. Where can I find the full list of companies exhibiting at the Future Minerals Forum?

The full exhibitor list of the Future Mineral Forum is published on the website.

13. Where can I find the full speaker line up for the Future Minerals Forum?

The full speaker line up of the Future Mineral Forum is published on the website.

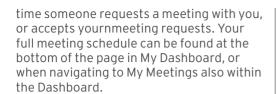
14. What is FMF Delegate Connect?

Use FMF Delegate Connect to identify the attendees you wish to meet, and schedule meetings, in just four simple steps.

- 1. Update your profile: Tell us a bit about yourself so others will know why they would want to meet you, add your profile picture to be recommended to others. Review your interests selected, this will ensure your recommendations are only people who meet your criteria and will ensure you show up in relevant searches.
- 2. Review your recommendations: Our algorithm automatically suggests people you should meet based on the interests you selected during registration, and when you updated your profile. Review your recommendations and send meeting requests.
- 3. Search and send meeting requests: Identify additional contacts you would like to meet through our intuitive filter and search functionality. Once you've identified people you want to meet, book a meeting with a single click.
- 4. Confirm your schedule and attend meetings: You will receive an email every







15. How do I access Delegate Connect?

You need to be registered for the event to be able to start using the platform. Once you are registered, you are automatically given a log-in to the FMF Delegate Connect Matching Program. This will allow you to send and receive meeting requests, arrange pre-scheduled meetings to maximize your time at FMF.

Please check your mailbox for an email from FMF Delegate Connect Concierge delegate-connect@futuremineralsforum.com

If you have not received your welcome email with log-in details, please email the FMF Delegate Connect Concierge at delegateconnect@futuremineralsforum.com

16. Does the Future Mineral Forum have social media accounts? Where can I locate them?

The Future Minerals Forum has dedicated social media accounts to regularly post about the Forum's updates, sessions, opportunities, industry news and more. Please follow us on our social media platforms below:

https://www.facebook.com/FutureMineral https://www.linkedin.com/company/ futuremineral

https://www.instagram.com/ futuremineralsforum https://x.com/FutureMineral

#FMF | #FMF24 | #FUTUREMINERALSFORUM

We will be issuing news regularly between now and January, and we ask that you please like and re-share the event's news with your entire network.

We would welcome receiving your news so we can share it with the FMF network. We

especially would be happy to learn about your participation in FMF 2025 and any areas of particular interest for you so we can promote you and your news.

17. What is the temperature in January in Riyadh?

Riyadh, the capital, is in the centre of the country, at 600 meters above sea level. January is an agreeable winter month in Riyadh, with temperatures in the range of an average low of 9°C (48.2°F) and an average high of 20.2°C (68.4°F).

18. What currency is used in Riyadh, Saudi Arabia?

The Saudi Riyal is the currency in Saudi Arabia. It is abbreviated as SAR. Exchange centers are available at the King Khalid International Airport and throughout the city. ATMs are widely available in Riyadh, and you can withdraw both dollars and Saudi Riyals from the Airport ATM machines. At present, the exchange rate is 1 SAR = 0.27 USD / 1 USD = 3.75 SAR. Subject to market fluctuation.









CIRCULAR ECONOMY: CONNECTING LATIN AMERICA AND THE SUPER REGION

Establishing a strategic bridge between the "super region" and Latin America will create a global nexus of mineral-rich regions, writes Petar Ostojic, CEO of Neptuno Pumps and the Center of Innovation and Circular Economy (CIEC) and Board President of CircularTec.

he Future Minerals Forum (FMF) 2025 is set to redefine global mining and mineral discussions by focusing on the interconnectedness of regions pivotal to the energy transition. At its core is the concept of the "super region," encompassing Africa, the Middle East, Central Asia, and South Asia. This vast geographical area, rich in mineral resources, has the transformative potential to develop resilient and responsible mineral industries. By emphasizing collaboration, the "super region" aims to meet the surging global demand for critical minerals essential to clean energy solutions and modern technologies.

A key milestone for FMF 2025 is the strategic bridge between the "super region" and Latin America, creating a global nexus of mineral-rich regions. Both regions are vital to meeting the increasing demand for metals and minerals, particularly those critical to the energy transition. Latin America, with its vast copper reserves and a burgeoning portfolio of critical minerals, offers complementary resources and invaluable experience from over a century in the mining industry. This collaboration, especially with Saudi Arabia, enables the exchange of best practices in sustainable mining, enhanced by cutting-edge technologies like artificial intelligence, big data, automation, and the Internet of Things (IoT). By integrating these innovations, FMF seeks to foster sustainable, efficient,



and safe mining operations while aligning with responsible practices to support the global energy transition.

Latin America's critical role is underscored by its wealth of copper resources, with a project portfolio valued at over \$158 billion by 2032. Chile leads with \$84.231 billion in copper investments, followed by Peru with \$32.768 billion and Argentina with \$22.132 billion. These investments are critical to meeting the projected 70% growth in copper demand by 2050, driven by electric vehicles, renewable energy, and digitalization. However, the sector faces challenges, such as declining discoveries and lengthy development timelines, necessitating significant innovation and investment. Addressing these challenges, FMF focuses on aligning investments with critical mineral strategies, integrating circular economy principles and Industry 4.0 into exploration, extraction, and processing. This approach ensures the mining sector's



Petar Ostojic, CEO of Neptuno Pumps and the Center of Innovation and Circular Economy (CIEC) and Board President of CircularTec.

growth while enhancing global supply chains' sustainability and resilience.

The creation of green mineral value chains is central to FMF's agenda, promoting responsible mining through sustainable resource use. Local suppliers like Neptuno Pumps, a Chilean engineering leader specializing in industrial pumps and wear parts for the mining industry, exemplify this effort. Recognized for pioneering circular economy business models, Neptuno

Pumps employs Industry 4.0 technologies to redesign and remanufacture components. minimizing waste and extending equipment lifespans. By optimizing resource use and creating efficient circular systems, they provide scalable solutions adaptable to mining operations worldwide. This integration of circular economy principles with advanced technologies highlights a path toward greener, more sustainable mineral value chains, which can be applied across the "super region."

To further these goals, FMF 2025 emphasizes the development of centers of excellence that drive technological innovation, sustainability, and responsible mining practices. The Center of Innovation and Circular Economy (CIEC), founded in 2017, and CircularTec, established in 2021, are key examples. Both based in Chile, these institutions collaborate with the mining industry, universities, and public institutions to promote circular economy principles and scalable sustainability solutions. CIEC focuses on minimizing mining's environmental impact while fostering community benefits, while CircularTec advances broader sustainability efforts through partnerships and innovative practices. These centers provide replicable models that can address shared challenges across the "super region.'

FMF 2025 aspires to position the "super region" and its partnership with Latin America as leaders in building sustainable, resilient mineral supply chains. By fostering collaboration among governments, private sectors, and other stakeholders, FMF aims to modernize mining industries in alignment with societal expectations of sustainability and economic development. Leveraging transformative technologies, the partnership between these regions holds unprecedented potential to set benchmarks for responsible mining, circularity, and innovation. Through these efforts, FMF 2025 is paving the way for a transformative era in the global minerals industry.

For more information visit ciecircular.com or neptunopumps.com





TRANSFORMING GLOBAL MINERAL SUPPLY CHAINS: AIMING AT BUILDING SUSTAINABILITY AND RESILIENCE

One of the cornerstones of the global energy transition is the need to build green and resilient supply chains, writes **Joe** Kaeser, Chairman of the Supervisory Board of Siemens Energy and Daimler Truck.

ritical minerals like copper, aluminum, lithium and rare earth elements form the backbone of the clean tech industry: from wind turbines, grid technologies, and electrolysers to batteries needed for storage, as well as for smart and green mobility. The demand for critical raw materials and minerals underscores the need for innovative and sustainable supply chain strategies. Moving from overreliance on single sources to alternative supply chains is key to building real resilience and meeting global challenges of the energy transition.

Register here

For the global clean tech leader Siemens Energy and the global commercial vehicles leader Daimler Truck, where I am Chairman of the Supervisory Board, the global energy transition represents both an opportunity and a responsibility. The Future Minerals Forum (FMF) offers a pivotal platform to address critical minerals challenges that underpin our industry nowadays:

Investment in metals and minerals production: The increasing demand for metals and minerals, driven by technological advancements and the green economy, requires strategic investments in mining infrastructure, exploration, and processing technologies. These investments enhance production efficiency and sustainability. Governments can leverage private sector



Joe Kaeser, Chairman of the Supervisory Board of Siemens Energy and Daimler Truck

expertise and capital to develop robust mining operations that meet environmental and social standards. Siemens Energy as well as Daimler Truck collaborate with suppliers to identify raw material makers that promote responsible mining activities. While new mining and processing sites for rare earths are developing, equity funding remains a challenge for junior miners and should be a focus in industrial politics.

Critical minerals strategy development: A comprehensive strategy is essential for securing key materials for modern technologies and renewable energy systems. This involves identifying and prioritizing critical minerals, assessing supply chain vulnerabilities, and promoting domestic production. Collaboration with international partners can diversify sources and reduce dependency on single suppliers. Policies encouraging research, development, recycling, and substitution of critical minerals will strengthen supply chain resilience. E.g. Siemens Energy's strategy includes building transparency on demand, understanding current supply sources, ensuring availability and responsible mining practices, and continuously screening raw materials markets for risks and opportunities.

Promoting responsible mining: Responsible mining practices minimize environmental and social impacts along our entire value chain. Governments should enforce regulations that mandate sustainable operations, including biodiversity protection, water management, and greenhouse gas reduction, as well as human rights and fair labor practices. Traditionally, OEMs source semi-finished or finished goods and mining activities occur far upstream the value chain in complex multi-tier supply chains. Accordingly, manufacturers face the challenge of building transparency across complex supply chains. Siemens Energy promotes the harmonization of a single sustainable mining standard to ensure validity and reliability.

Developing centers of excellence: Centers of excellence in mining and mineral processing drive innovation and best practices. These hubs for research, education, and collaboration bring together academia, industry, and government. They focus on cutting-edge technologies and sustainable practices, enhancing the mining sector's competitiveness. They also provide training and capacity-building programs to develop a skilled workforce for modern mining operations.

Developing green minerals value chains: Transitioning to a green economy requires sustainable value chains for minerals and metals. This involves environmentally friendly extraction and processing methods, as well as ensuring traceability and transparency. A green minerals value chain includes strong governance frameworks, continuous disclosure of environmental and social KPIs, regular audits against responsible mining standards, providing environmental footprint information, and using blockchain technology for traceability.

We are glad that the FMF is not just about dialogue but about actionable outcomes. By fostering collaboration across sectors and nations, this Forum is redefining mineral supply chains, ensuring they are not only efficient but also sustainable and resilient.

For more information, visit siemens-energy.com and daimlertruck.com





AT THE FOREFRONT OF RESPONSIBLE RESOURCE DEVELOPMENT

As a leading diversified mining company focused on discovering, developing, and producing the critical resources necessary for a lowcarbon future, Ivanhoe Mines is proud to support the Future Minerals Forum 2025, writes the company's President, Marna Cloete.

AT IVANHOE MINES, our vision and operations align with the Forum's core pillars, demonstrating our commitment to shaping the future of sustainable mining.

We stand at the forefront of responsible resource development, with our portfolio of tier-one assets providing essential green metals including copper, zinc, nickel, and platinum group metals. Our strategic investments have yielded remarkable results, positioning us as a responsible, leading supplier of critical metals

for advanced industrial technologies like Artificial Intelligence (AI) and data centres, as well as the clean-energy transition.

The global demand for critical minerals, particularly copper, continues to surge. While we respond to the escalating demand, equally important is how these minerals are produced - in the most sustainable manner possible.

Ivanhoe Mines leads the critical minerals sector with sustainable practices that go beyond industry standards. We seek to be a



Marna Cloete, President, Ivanhoe Mines

trendsetter in our approach, developing strategies that balance resource extraction with environmental stewardship. We exemplify modern mining by integrating environmental practices and comprehensive community engagement programs that create lasting benefits for our host communities and stakeholders.

At Ivanhoe Mines, we mine with a greater purpose, positively impacting lives and inspiring the next generation of mining leaders. Recognizing the mining industry's crucial role in modern life we continue to attract fresh talent and reshape industry perceptions.

As we look toward the 2025 Future Minerals Forum, we are excited to join forces with industry pioneers to share our insights and contribute to discussions that will forge new paths toward sustainable mining practices that benefit both people and our planet.

For more information, visit ivanhoemines.com

PERSISTENCE IN DISCOVERY WITH A FOCUS ON AFRICA

THE JEAN BOULLE GROUP (JBG) focuses on funding innovative technologies and special situations and launching strategic mining investments on international stock exchanges. Completed transactions exceed US\$5bn in value. Globally successful operations, underpinned by the Persistence in Discovery mantra, can immediately be harnessed to contribute to the KSA's mining goals through the Atlantis II Red Sea project.

Since JBG's Diamond Fields' discovery of the richest nickel mine in the world at Voisey's Bay (Canada), JBG has pioneered US-African commercial trade as a prime mover in promoting America's governing law on trade with Africa (The Africa Growth and Opportunity Act, 2000).

JBG's Principal is Vice Chairman of The Corporate Council on Africa.

Voisey's Bay, Kolwezi, Kipushi, Sierra Rutile, SML Bauxite, Toliara sands, Offshore Lüderitz Mining.. all world class mines which JBG

either discovered, restarted, developed and/or operated. JBG reactivated the post-war Sierra Leone economy using titanium dredging technology and bauxite mining and is credited with executing the first DRC copper/cobalt joint ventures. More recently, JBG discovered and is developing the world's highest quality anorthosite deposit with the governments of Denmark and Greenland as accompanying shareholders.

Nickel, copper, cobalt and molybdenum exploration continues in Greenland, whilst, in Finland, exploration operations have delivered a recent gold discovery. In Angola, JBG controls around 2,800 square kilometres within a prime diamondiferous kimberlite province together with alluvial diamond concessions to complement existing Namibian diamond production from its 660km2 offshore Lüderitz concessions. JBG, as a pioneer in marine mining, is well positioned to support the Kingdom's mineral



Jean-Raymond Boulle, CEO, Jean Boulle Group

extraction and processing goals in the development of the Atlantis II Red Sea project.

We embrace technology and currently deliver and construct nickel titanium heart valves through world-beating Med-Tech innovation technology from our Tendyne and VDYNE Companies. Working with the Icahn School of Medicine at Mount Sinai, New York and Radboud University in Nijmegen, Holland, Trained Therapeutix Discovery uses nanobiologic

immunotherapy to treat cancer and to mitigate organ rejection.

A patented method designed for industrial scale production of 'green' magnesium metal is currently under development with the aim of allying net zero emissions with the lowest cost

JBG is co-founder and General Partner of the C5 Energy Security Fund which invests to strengthen the resilience of the nuclear value chain from mining to processing through to nuclear applications and Small Modular Reactors (which are particularly suited to Africa).

The JBG Group (and its Mauritian Principal) are well known internationally for their conservation work and for having been instrumental in protecting the Cargados Carajos shoals and saving the Mauritius Kestrel from extinction, in situ, at JBG's Kestrel Valley reserve.

JBG works with sovereign funds, delivering long-term value to an international array of stakeholders, and stands ready to contribute meaningfully to KSA's long-term sustainable growth.

For more information, visit jeanboullegroup.com







TACKLING TOUGH ISSUES TO GROW MINERAL SUPPLY

The time for action is now, writes Robert M. Friedland, Founder, Ivanhoe Mines, Ivanhoe Electric, and I-Pulse.

umanity is confronted with a complex and pressing challengeensuring energy security and affordability while advancing toward carbon neutrality. Achieving this balance requires unprecedented investments in clean energy production, electrical grids, and storage solutions. Yet, this must occur at a time when public debt is high and global dynamics such as demographic shifts, trade tensions, rapid digital transformation, and geopolitical conflicts strain fiscal resources.

The International Energy Agency (IEA) reveals a sobering truth-clean energy generation is not keeping pace with the surging global electricity demand, predicted to double by 2050. A significant driver of this demand is China's ambitious energy transition. The burgeoning reliance on critical minerals for clean energy, as well as advanced technologies like Artificial Intelligence (AI) and data centres, amplifies the risks tied to supply chain balkanization, supply challenges, and fluctuating market prices.

These are daunting issues, but they also offer valuable opportunities. Across Ivanhoe Mines, Ivanhoe Electric, and I-Pulse, our companies share the goals of this year's Future Minerals Forum in Riyadh, Saudi Arabia, to drive more investment in critical mineral exploration and development. We will face these challenges and opportunities, and drive positive, disruptive impact.

FIRST, on supply, we must scale up production and international trade in the critical raw materials required for advanced-energy technologies, data centres, and National Security.

At Ivanhoe Electric, we are re-inventing American mining and accelerating and de-risking global mineral exploration. Our Typhoon™ transmitter is the world's most powerful and accurate geophysical survey system. Typhoon™ maps underground variations in rock conductivity and changeability to see deep below the Earth's surface. The power-to-noise ratio of our technology exceeds that of any existing geophysical systems. We combine these expansive geological datasets with the machine-learningbased software of our subsidiary, Computational Geosciences. Our group is also currently working on a disruptive Artificial Intelligence (AI) system that will transcend resource exploration as we know it today, and transform the knowledge of earth sciences with technologies that challenge the impossible

Ivanhoe Electric is advancing its American flagship mineral projects in Arizona, Utah, and Montana. We also recently commenced the inaugural Typhoon™ survey under our BHP Exploration Alliance in the Southwest U.S. to look for potential world-class deposits hidden from the surface by younger cover rocks.

In addition, Ivanhoe Electric is drilling target sites through a joint venture with Ma'aden to explore for minerals on the vast Arabian Shield potential in the Kingdom of Saudi Arabia – supporting the third pillar of Saudi Vision 2030 to diversify sources of income and develop mining into a national industry.

SECOND, by helping host countries to realize their economic development objectives.

New mine supply must not come at the cost of



Robert M. Friedland, Founder, Ivanhoe Mines, Ivanhoe Electric, and I-Pulse

Globally the crus

Globally, the crushing and grinding of rock is estimated to account for around 4% of energy used on planet Earth.

local communities and the environment. At the Ivanhoe Mines' Kamoa-Kakula Copper Complex located on the Central African Copperbelt in the Democratic Republic of the Congo, we have focused on local employment, local training. and local procurement. Over 90% of the people working at Kamoa-Kakula are Congolese. We have world-leading health, safety, environment, and social responsibility initiatives to benefit people through programs that include agriculture, entrepreneurial training, and advanced education. We would recommend everyone review Ivanhoe Mines' industry-leading Sustainability Reports at www. ivanhoemines.com.

THIRD, our group is the world leader in bringing revolutionary

and disruptive technology to the mining industry.

At I-Pulse, our mission is to power great ideas. By converting a small amount of electrical energy through time compression and releasing it in bursts of greatly multiplied power we are working to disrupt major heavy industrial processes, in manufacturing, resource exploration, and energy generation.

I-ROX is an application of high-pulsed power under development with investments from major global players like Breakthrough Energy Ventures, BHP, Rio Tinto, and Ivanhoe Mines. The I-ROX program is focused on demonstrating that short, high-intensity bursts of energy delivered using our technology can quickly and efficiently shatter rocks and mineral ores, potentially revolutionizing the industry's approach to the energy-intensive and inefficient milling circuit. Up to half a mine's energy consumption is used to crush and grind rock. Globally, the crushing and grinding of rock is estimated to account for around 4% of energy used on planet Earth.

The I-ROX process, which targets tensile weakness in rocks, could substantially reduce the time, energy usage, and greenhouse gas (GHG) emissions currently generated by critical mining activities, as well as leading to increased recovery of critical minerals like copper.

The mining industry stands at a crossroads of opportunity and responsibility. By aligning with the Forum's pillars, the sector can rise to drive not only corporate profitability but also global sustainability.

The path forward calls for visionary leadership, collaboration, and bold investment to transform mines into beacons of innovation and responsibility. For policymakers, industry professionals, and business leaders, this is more than a framework—it is an invitation to shape the future of mining with foresight, integrity, and purpose. The time for action is now.

► For more information, visit ivanhoeelectric.com, ivanhoemines.com and ipulsegroup.com





EXCITING TIMES AS CHILE PLAYS KEY INTERNATIONAL ROLE

These are exciting times to be part of the mining industry, writes Joaquín Villarino, Executive President of Chile's Consejo Minero.

THE GLOBAL DEMAND FOR critical minerals to develop clean technologies and enable the energy transition has put our sector in the spotlight. As the World Bank has stated, "a low-carbon future will not be possible without minerals".

In this scenario, Chile, the world's number one copper producer and the third producer of lithium, among other minerals, has solid arguments to play a key role on the international stage. Our country has a long-standing mining tradition; we have the geological resources, human capital, environmentally responsible practices,

stable institutions and transparency to give foreign investors peace of mind.

Chile faces a critical decision: to adopt an active and strategic position on this agenda, or to stay on the sidelines and lose a historical opportunity. Our potential is clear; with reserves estimated at over US\$ 1.89 billion in critical minerals, our country can consolidate as the leading supplier of clean technologies.

However, to unlock our potential and achieve this leadership. it requires a long-term vision, innovative policies and a strategy that aligns both the public and private sectors. The large



Joaquín Villarino, Executive President of Chile's Consejo Minero

mining companies operating in Chile are committed with responsible operations, and aware of the responsibility with the rest of the world.

Furthermore, cross collaboration initiatives, such as the Future Minerals Forum, provide a unique opportunity to deliver positive contributions from both supplier countries and demand-savvy markets. I am personally grateful for the invitation to take part in the FMF and its strategic discussions and look forward to contributing from the Chilean perspective and experience in the mining industry, a sector that is nivotal in the country's economy and development. Close cooperation is undoubtedly fundamental for the global minerals sector today and for its future, and I am certain the FMF is such a platform.

For more information, visit consejominero.cl

THE MINING SECTOR HAS A PURPOSE WHICH CAN CHANGE ITS PERCEPTION

When trust in mining is an issue, transparency is key, argues Jos Simson, CEO of Tavistock

THE GLOBAL MINING SECTOR has made great strides in trying to shake off its legacy image in recent years. We have the technology sector to thank to a certain degree for this. Today there is increasing awareness of the metals that lay hidden behind the screens of our mobile phones to the new batteries that power our electric vehicles.

The mining sector has an incredible purpose and its raison d'etre is arquably more important today than it has ever been. This said, the names of the biggest mining houses in the world are largely unknown to global consumer audiences. This is not the case when you compare it to its industry cousins in the energy sector. The world's biggest energy producers have been promot-



Jos Simson, CEO of Tavistock

ing their purpose for decades. They recognised the winds of change and responded quickly to consumer sentiment for cleaner energy generation.

Why is this important you may ask? Well the mining industry needs bright young talent to sustain its future yet global university applications continue to remain too low.

When trust is an issue, transparency is key. To address its historical reputational issues, it is vital that the industry tells its story better.

The mining sector has shown how it can be the backbone to growing economies. It brings infrastructure, taxes, local employment and skills that can be transformative.

The industry is well versed at talking to itself to a point. To change the mindset, however, it must broaden the dialogue and improve communication. This is most relevant with the end-users of mined commodities, a group the industry has always struggled to connect with due to its position higher up the supply chain.

The Future Minerals Forum provides an ideal platform for transparent engagement with consumers and for showcasing the industry's commitment to responsible, sustainable new practices. By leveraging such opportunities, the mining sector can not only build trust but it can inspire greater participation. This approach is essential as mining companies strive to secure their social licence to operate, which has become increasingly dependent on positive externalities to communities near mine sites and government regulators.

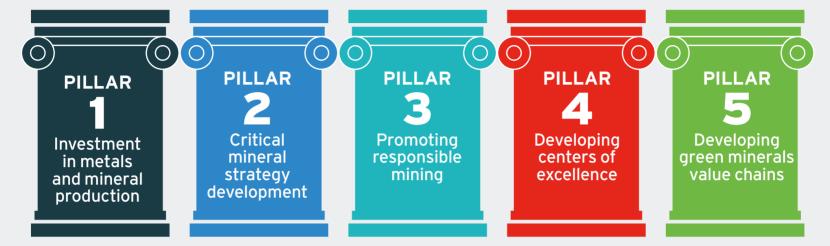
For more information, visit tavistock.co.uk





THE FIVE PILLARS OF FMF 2025

At FMF 2025, speakers and panels will focus primarily on five pillars: investment in metals and mineral production; critical mineral strategy development; promoting responsible mining; developing centers of excellence; and developing green value chains.



THEMES FOR FMF 2025 - YEAR OF IMPACT



NEW VOICES ON CRITICAL MINERALS

- Downstream perspectives(car makers, renewable energy, infrastructure developers(China, Korea, Japan)
- Regional perspectives: Latin America, East and South-East Asia, East Africa, West Africa, North Africa);
- Global perspectives: IEA, OECD, critical minerals outlook and initiatives, impact of new technologies (e.g. batteries) EV manufacturing



DELIVERING INVESTMENT PARTNERSHIPS IN SUPPLIER COUNTRIES

- Minerals processing and value addition
- Exploration, infrastructure projects, finance market development
- Emergence of GCC as a global Minerals hub
- Short v long term investment
- Making sustainability affordable (ESG risk, cost reduction, regional expectations, certification, social development, nature positive)
- Policy environment: critical minerals framework and value chain (mid and downstream processing, recycling, circular)



MINERALS' CONTRIBUTION TO SOCIETY

- From action to impact, winning hearts and minds for a global cause,
- Integrating planning for maximizing social benefits (jobs, social infrastructure, education, procurement, energy, transport, water)
- Capacity building; NextGen talent development; progress on centers of excellence creation
- Future Minerals barometer - informing and generating a new narrative on minerals



GREEN TECHNOLOGY AND POWERING THE AI REVOLUTION

- Technology deployment at scale
- Minerals and the Al revolution
- Decarbonization
- Mine design 2.0 cross disciplinary collaboration
- Integrated infrastructure design win win for mineral production and community development



COUNTRY AND PROJECT SHOWCASES

- Mineral and manufacturing potential
- Regulatory environment
- Value addition
- Intra-regional value chains
- Investable projects





SAUDI DISCOVERY COMPANY AND THE KINGDOM OF SAUDI **ARABIA'S SHARED** LONG-TERM VISION

Christian Milau, CEO of Saudi Discovery Company, explains how his organization is pioneering success in Saudi Arabia's mining sector.

n the dynamic and rapidly evolving landscape of global mining, Saudi Discovery Company (SDC) is emerging as a leading exploration company, demonstrating agility and commitment to successfully progressing the industry within the Kingdom. Within a short twelve months, SDC has established itself as a key player in Saudi Arabia's rapidly growing junior exploration and mining sector, achieving milestones that underscore the Kinadom's commitment to becoming a premier destination for mining investment.

LEADING THE WAY WITH 100% FOREIGN OWNED **EXPLORATION LICENSES**

As part of SDC's groundbreaking journey in Saudi Arabia, the company has been awarded several "100% foreign owned junior exploration licenses" (what we understand to be a first in the Kingdom) highlighting the progressive regulatory reforms and investor-friendly policies spearheaded by Vision 2030. These reforms have transformed Saudi Arabia into one of the world's most attractive under-explored jurisdictions. The world class infrastructure (roads, power, ports, cities), attractive fiscal regime (low tax and royalties, and no equity in projects), free flow of funds in and out of country, excellent security and safety, a supportive mining law, and a long-term vision support a rapidly growing sector. Arguably, these factors shape Saudi Arabia into the most



Christian Milau, CEO of Saudi Discovery Company

exciting mining jurisdiction over the coming decades.

The speed and efficiency with which SDC secured its exploration licenses underscore the streamlined processes and transparency introduced by the Ministry of Industry and Mineral Resources. This milestone not only sets a precedent for other international junior exploration players, but also reflects the Kingdom's openness to fostering partnerships that drive economic diversification.

EXPLORATION LICENSES THROUGH COMPETITIVE **AUCTIONS**

In addition to acquiring exploration licenses through open-ground applications, SDC's success in securing multiple exploration licenses (without a partner to date) through competitive auctions further demonstrates the possibilities in the region. These awards are a testament to the company's technical expertise and the team's experience with multiple mine discoveries in the region and similar geology (Bisha mine and Asmara/Emba Derho deposit in Eritrea).

The competitive auction process itself is a hallmark of the Kingdom's mining reform agenda. By fostering a level playing field and promoting transparent competition, Saudi Arabia has ensured that the best-qualified players lead the exploration and development of its vast mineral resources.

VISION 2030: UNLOCKING SAUDI ARABIA'S POTENTIAL

At the heart of SDC's success lies the foundation laid by Saudi Arabia's Vision 2030-an ambitious framework designed to diversify the Kingdom's economy and reduce its dependence on oil. Vision 2030 places significant emphasis on unlocking the potential of alternative sectors, with mining identified as a key pillar of this transformation.

Through long-term planning, Saudi Arabia has implemented forward-thinking policies that attract global investors while ensuring sustainable and responsible development. The mining investment law, introduced under Vision 2030, establishes clear regulations, transparency, and a competitive fiscal regime. These measures not only de-risk investments, but also create an environment where companies like SDC can thrive.

The Kingdom's long-term vision extends to building infrastructure, enhancing workforce capabilities, and fostering technological innovation, all of which are vital for a competitive and sustainable mining industry. By prioritizing strategic planning, Saudi Arabia is setting itself apart as a worldclass mining destination that offers stability and growth for investors for decades to come.

SAUDI ARABIA: A WORLD-CLASS MINING DESTINATION

SDC's achievements to date reflect a larger narrative of Saudi Arabia's emergence as a global mining hub. The Kingdom is home to an estimated US\$2.5 trillion in untapped mineral resources, spanning commodities such as gold, copper, zinc, phosphate and rare earth elements. With its strategic location, robust infrastructure, approximately US\$200 million fund for exploration grants, and Saudi Industrial Development Fund's willingness to provide threeguarters of initial mine capital at attractive interest rates with a five-year deferral on repayments, Saudi Arabia offers unparalleled opportunities for investors.

Driving the Future of Mining SDC's recent progress is an excellent example of what is possible in Saudi Arabia's emerging mining sector. As SDC continues to expand its footprint, it stands as an example of the transformative potential of collaboration between visionary governments and forwardthinking explorers with deep experience in mine discovery, financing, and development.

For more information, visit sdcmetals.com



Bridging global economies

Our firm belief in the power of great partnerships motivates us to continuously grow our network of strategic partnerships locally & internationally as a means to support the growth and development of the export and import sectors, with the ultimate aim of becoming a key co-contributor to a sustainable global economy.







→ STRATEGIC PARTNER: AJLAN & BROS MINING (ABM) STAND: SP10

EXPLORATION LICENCES UPDATE FROM ABM

KEY PLAYER IN THE MINING sector Ajlan & Bros Mining (ABM) is working to explore for and develop a range of metal projects in Saudi Arabia, including for copper, zinc, gold, manganese and other commodities. In parallel with its development of the Khnaiguiyah mine, and as part of this strategy, ABM has recently acquired a 100% interest in six exploration licences in the Kingdom.

WORK COMPLETED

The projects are considered prospective for commodities including gold and copper. Some of these have historic gold workings, and others represent new exploration. In both cases, modern exploration techniques including 3D-magnetic surveys, and other geophysical techniques are being used, often for the first time in these areas, to define targets prior to their testing by drilling. Trenching has already been carried out on all six of the licences, allowing sampling of rock, analysis



Ground magnetic survey work

of which has identified the presence of mineralization on multiple licences. Drilling will allow the extent of this to be evaluated and to make a preliminary determination of economic potential.

Active projects are: • Umm Maru (85 km2 Gold

project) Magnetic survey completed. Further geophysics planned to guide future drilling. Trenched 1,752 m. Diamond drilling in 2025.

• Jabal Umm Surayha (91 km2

Gold project)

Magnetic survey completed. Further geophysics planned to guide future drilling. Trenched 696m. Drilling in 2025.

• Jabal Dalfa (88 km2 Gold project)

Magnetic survey underway, RC drill results include 1m@6.3g/t and 2m @1.7g/t, from shallow depths. Trenched 5,291m. Further RC drilling planned for 2025.

• Umm Shat Gharab (57 km2 Gold project)

Magnetic survey underway. Trenched 4,871m. Drilling in 2025.

Afif (25 km2 Base metal project)

Multi element potential. Trenched 2,586 m Magnetic survey underway, gravity survey planned for 2025.

• Masana Masagha (89 km2 Copper Gold project) Early stage, contains historic gold workings. Magnetic survey commissioned. Trenched 215m. Licence wide mapping and sampling to identify and rank targets prior to next stages of

PLANNED WORK

An appraisal and ranking of the licences and the targets within them is presently underway, further supported by additional geophysics including ground magnetic surveys and additional geophysical surveys aimed at finetuning target selection within the licences to maximise the chances of drill success. This is expected to lead to reconnaissance drilling program(s) aimed at evaluating the potential in each of the most prospective licences. If ore-grade mineralisation is identified this will then lead to resource definition drilling.

For more information, visit ailanbrosmining.com

RECOVERING HIGH-VALUE METALS FROM MINING WASTE

THE WORLD'S LARGE-SCALE mining operations produce over 100 billion tons of solid waste per year, and the current waste storage and treatment facilities pose an environmental risk as this mining waste, or slag, can pollute the atmosphere, underground water and soil if not handled properly. These waste storage and treatment plants contain useful and precious resources. The challenge lies in reclaiming them.

However, there is an opportunity for mining companies to recover value from this liability-all while advancing a circular economy for the metals industry. Molten Oxide Electrolysis (MOE) is a tonnage metals platform technology



powered by electricity that can be used to selectively extract valuable metals from complex, low-concentration materials that are currently considered waste. Using MOE cells to recover high-value metals from this material is substantially more efficient and cost-ef-

fective than the incumbent methods of producing ferroalloys such as ferroniobium and ferrotantalum.

Boston Metal, a company on a mission to decarbonize steelmaking and advance sustainable metals production, recently celebrated the inauguration

of the first facility for its MOE platform technology to recover high-value metals from mining waste and industrial slags in Brazil. At the Brazil plant, Boston Metal is increasing the supply of high-value metals while simultaneously minimizing the financial and environmental liabilities of slag and reducing the need to mine new deposits. The company's focus in Brazil is to extract three metals from local slags-tantalum, niobium and tin. The plant is located in a mineral-rich region with abundant mining waste available.

Rather than accepting slag as waste, with Boston Metal and MOE, the metals industry now has a scalable, cost-competitive and sustainable solution to leverage this natural byproduct of metal production and create new revenue streams.

For more information, visit bostonmetal.com







NEW FOR FMF25: THE KNOWLEDGE EXCHANGE

IN RESPONSE TO THE GROWING demand for technical insights and the need for a dedicated platform where specialists across the mineral value chain can discuss the industry's most pressing issues, FMF25 is proud to introduce the Knowledge Exchange.

This newly launched stream features a series of focused sessions that dive deep into the technical aspects of ongoing mineral and mining operations.

Exclusively on 14 January, delegates and participants at FMF25 can attend over 20 dynamic sessions, hosted at the prestigious King Abdulaziz International Conference Center.

WHAT MAKES THE KNOWLEDGE EXCHANGE DIFFERENT?

This program is designed for professionals and stakeholders involved in the mineral and mining industries, particularly those focused on global development, innovation, and sustainability.

The sessions of fer a mix of forward-looking technological advancements, perspectives, and discussions on challenges and opportunities across mineral supply, exploration and sustainability.

01 Discover Key Insights and Latest Technical Thinking Participate in deep-dive discussions led by industry experts, designed to offer focused, solution-based approaches to pressing challenges in the mineral value chain.

02 Explore Cutting-Edge **Equipment and Solutions** Visit the surrounding exhibition halls to experience hands-on



demonstrations of the latest tools, technologies, and innovations driving efficiency in mining and mineral operations.

03 Engage with Global Experts and Thought Leaders Network with specialists across the mineral value chain, from exploration to processing, and gain insights from their expertise and experiences.

04 Stay Ahead of Industry **Trends**

Learn about advancements in automation, AI, ESG compliance, and sustainable practices that are shaping the future of

05 Participate in Interactive and Practical Sessions Dive into over 20 technical sessions that include case studies. panel debates, and Q&A opportunities to address real-world challenges.

06 Gain Actionable Strategies for Business Growth Access practical knowledge and solutions that can be implemented to optimize operations, reduce costs, and improve productivity.

07 Collaborate on Innovative

Work with peers and innovators to cocreate solutions for industry challenges, fostering partnerships and collaborations that can lead to transformative results.

→ PLATINUM SPONSOR: **ALKHORAYEF MINING COMPANY** STAND: **P09**

ALKHORAYEF MINING COMPANY: YOUR STRATEGIC ONE-STOP SHOP PARTNER

ALIGNED WITH SAUDI VISION 2030, Alkhorayef Mining is proud to be a Saudi-owned mining services company, with our vision and services extending across the MENA region. We deliver world-class solutions that empower mining operations and foster collaboration. From exploration to production and beyond, we offer an integrated suite of services, tailored to support mining companies throughout the life of mine (LOM).

Health, Safety, and Environment (HSE) form the foundation of our operations. We are dedicated to upholding and exceeding global standards, setting a benchmark for safety and environmental stewardship in the Kingdom's mining industry.

Our leadership team represents decades of experience in global mining and an in-depth understanding of Saudi Arabia's unique mining dynamics. This

shared expertise ensures that partners benefit from operational excellence and a deep commitment to driving success.

OUR SERVICES

Exploration and Discovery: Utilizing cutting-edge technologies such as seismic imaging, satellite mapping and our inhouse exploration drilling teams we accelerate the discovery and proving of mining reserves. Supported by in-Kingdom laboratories and earth modeling expertise, we ensure data-driven precision and efficiency. Strategic Partnerships: We collaborate with leading mining service providers like Veridien and AGC to deliver customized solutions. Technology Integration: Using advanced digital tools and data analytics we optimize operations across the mining value chain, delivering smarter, faster, more sustainable results.

Saudi Arabia-based Laboratory Service: Ability to process a wide range of sample types including rocks, drill core, drill cuttings, soils, stream sediments, till, clay, and water. We offer a complete suite of routine core analysis services including sample preparation. mineral identification and quantification, particle and elemental analysis.

Future Expansion: As part of our growth vision, we are preparing to expand into: Surface and Underground Mining Operations; Mine Development and Closure; **Emergency Rescue Services;** Automation and Digital Mining Solutions; Mineral Processing and Beneficiation Services; and Mining Joint Ventures.

This natural evolution will enable us to deliver complete LOM solutions, ensuring operational efficiency, while maintaining the highest HSE standards.



OUR LEGACY, YOUR ADVANTAGE

"Our decades of success in the oil and gas sector have given us the expertise, technology, and commitment to excellence that we now bring to the mining industry. At Alkhorayef Mining, we aim to replicate and build upon this legacy to shape the future of mining in the Kingdom and beyond." - Mohammed Doghmi, President Alkhorayef Petroleum Company

A VISION FOR EXCELLENCE IN MINING

"At Alkhorayef Mining, we are committed to becoming the partner of choice for mining companies by delivering innovative solutions and building strong partnerships. Our focus on technology, safety and operational efficiency is key to driving sustainable growth in the Kingdom's mining sector." - Mubarak M. Aljebeli, Director, Alkhorayef Mining Company.





→ PLATINUM SPONSOR: **BCG** STAND: **P19**

MINERAL HUBS: THE FUTURE OF THE CRITICAL MINERAL SUPPLY

THE GLOBAL ENERGY transition is driving unprecedented demand for critical minerals like lithium, nickel, and rare earth elements. These resources are equally vital for advanced technologies, manufacturing, and data centers. Yet geological constraints, environmental regulations, and geopolitical tensions threaten to derail development, By 2035, nearly 20% of the mineral supply needed globally will have not yet been discovered.

Recently, some have touted the idea of regional supply chains as a means of securing resources and minimizing exposure to external shocks. This approach could disrupt around 30% of worldwide mineral trade flows over the next decade, further

exacerbating supply gaps.

One solution-a transformative one, at that-is mineral hubs. These regional processing centers consolidate resources, centralize processing, and secure long-term supply chains while driving down costs. Much like the way airport hubs streamline logistics, mineral hubs centralize processing. creating economies of scale and operational efficiencies. Beyond ensuring supply resilience, they unlock significant economic opportunities for countries and companies like.

Emerging hubs in regions such as Saudi Arabia, Indonesia, Morocco, South Africa, Vietnam, and Chile are reshaping the critical minerals landscape. These hubs leverage their



natural resources, strategic locations, and infrastructure to integrate into global supply chains-and allow countries lacking the ability to establish full end-to-end hubs to effectively participate in regional value chains. They support local economies, create jobs, and provide industries like renewable energy and EVs with the resources they need for long-term growth.

The success of mineral hubs

depends on seven critical factors: a stable mineral supply, downstream market access, high processing capacity, integrated infrastructure, affordable clean energy, low-cost capital, and strong government support. Partnerships between governments and the private sector will be essential for scaling operations, meeting sustainability standards, and fostering innovation.

Our forthcoming article, due out in January, will delve deeper into the particulars of these hubs, exploring the strategies, challenges, and opportunities they represent. As the race to secure critical minerals intensifies, understanding the dynamics of mineral hubs will be crucial for shaping the sustainable, competitive economies of tomorrow.

For more information, visit bcg.com/industries/industrialgoods/metals-mining

→ PLATINUM SPONSOR: **SAUDI RED BRICKS COMPANY** STAND: **P04**

SAUDI RED BRICKS COMPANY: SEVEN DECADES OF INNOVATION AND SUSTAINABLE DEVELOPMENT

ESTABLISHED IN 1956, Saudi Red Bricks Company has been a leader in the red brick and block manufacturing industry, strengthening its presence in the construction sector across Saudi Arabia and neighboring countries. By using the finest raw materials and advanced production technologies, the

company has built a solid reputation for quality, becoming the largest industrial complex under one roof in Bahrah, Makkah Province, catering to growing market demands.

Through automated systems and modern technology. the company has achieved exceptional productivity and



advanced quality standards, benefiting from dry manufacturing techniques to ensure the strength of its products and their high efficiency in energy savings. Committed to supporting Saudi Vision 2030, the company provides eco-friendly and sustainable products that meet modern construction requirements.

The company emphasizes the importance of developing local talent, employing, and training outstanding teams to consistently deliver the highest quality standards. With the expertise of its skilled engineers and technicians, it ensures efficient management of advanced manufacturing processes to meet increasing demand locally and internationally.

Its robust distribution

network quarantees efficient delivery of products across Saudi Arabia and neighboring countries, making the company a trusted partner for major construction projects. Saudi Red Bricks Company continues to innovate by developing new products that reduce construction costs and improve thermal insulation, aligning with national goals for energy and water conservation.

As it moves forward, Saudi Red Bricks Company remains steadfast in its principles, committed to delivering exceptional quality products that reflect global advancements, while enhancing the position of Saudi industries in both local and international markets.

For more information, visit redbricks.com.sa/en/







→ GOLD SPONSOR: **ROYAL ROAD** STAND: **G07**

ROYAL ROAD: FMF EMBODIES A NEW SPIRIT OF HOPE, CONVICTION AND COURAGE

THE GLOBAL ENERGY transition has projected an unprecedented surge in demand for copper and other critical metals, yet discovery rates are at all-time lows, supportive jurisdictions are few and far between and traditional mine finance has all but evaporated. Our industry is in dire need of renewed hope, conviction and perhaps most of all, courage.

In 2016, Saudi Arabia embarked on its Vision 2030, an ambitious strategic framework which aims to diversify the Saudi economy and reduce its reliance on oil. Mindful of the untapped potential of the Arabian Shield, and as a platform for generating value throughout the supply chain, the Kingdom established mining as the crucial third pillar of its 2030 initiative.

At Royal Road we became

aware of this in early 2022. following the inaugural Future Minerals Forum (FMF) in Riyadh. A new frontier was opening, one with unparalleled regulatory support and relatively untested exploration potential. From our perspective, it seemed the Kingdom had identified the problem. engineered the solution and dropped a made to measure opportunity squarely in our lap.

The initial portal for entry was obviously the FMF and so, for the first time, we landed in Riyadh in January of 2023. Simply describing the FMF as unlike any other mining conference doesn't do it justice. Location, program, attendees and hospitality are authentic, exceed expectations, perfectly convey the aspirations of Vision 2030 and fuse to generate a palpable atmosphere of excitement and hope.





For Royal Road, the FMF in 2023 was a transformative moment. We found a progressive jurisdiction with a shared vision, we met our Saudi business partners, and we formed early impressions of the tantalising potential of the Saudi Arabian Shield.

Two months following the event we had executed a Letter of Intent with our Saudi partners, soon after that we established our local company, employed our team, imported equipment and completed our initial generative and reconnaissance phases of exploration. By the close of the next FMF in January 2024, we were awarded a new and exciting tender license. we had identified a pipeline of high-quality exploration opportunities and built a close circle of new colleagues and financial partners.

The FMF embodies a new spirit of hope, conviction and courage, reflecting the aspirations of its host country and supercharging the launch of a new era for mineral exploration and mining.

We look forward to seeing you there in 2025!

For more information, visit royalroadarabia.com

→ GOLD SPONSOR: FLS STAND: G18

FLS UNVEILS ENHANCED REGIONAL STRATEGY TO STRENGTHEN CAPABILITIES

FLS IS REVOLUTIONIZING ITS regional capabilities to better respond to customer needs. This strategic evolution is led by Bernard Kaninda, Region President Sales and Services for Europe, Middle East, and Africa (EMEA). As a leading full flow sheet technology company, FLS occupies a unique position in the market, fostering a special relationship with its customers.

"Being a partner through all their mineral processing requirements, FLS walks with customers throughout the lifecycle of a comprehensive range of equipment and solutions," says Kaninda. "This engagement gives us greater impact in helping the mining industry achieve its sustainability goals".

FLS aligns itself with industry imperatives by committing to energy and water reduction targets, aiming to reach zero emissions by 2030. To achieve these goals, FLS is enhancing its regional capabilities by shifting from the previous regional definition, which comprised sub-Saharan Africa, Middle East, and South Asia, to a more cohesive EMEA region.

'We believe the move to an EMEA region will better create the capabilities we are looking for, combining the strengths of Africa and Europe, and our learnings in the Middle East,' Kaninda explains. "We expect to be able to respond more quickly with services, spares, and equipment, and are building



Bernard Kaninda, Region President Sales and Services for Europe, Middle East, and Africa (EMEA)

local resources to achieve these improvements".

The focus on communication and partnership is being fostered through clusters within the region, empowered with adequate resources for quick response times and effective support for end-users. Streamlined logistics are also a key aspect of this strategic shift, reducing delivery times through better availability of inventory in-country.

FLS is committed to the communities in the regions where it operates, increasing local employment and developing local capabilities. This is evident in the company's teams, where over 90% of staff are already local. The FLS Training Academy at the Chloorkop service centre in South Africa supports ongoing skills transfer, ensuring all customers receive the same FLS experience.

► For more information, visit fls.com



→ GOLD SPONSOR: **HATCH** STAND: **G13**

SMART MINING: PAVING THE WAY FOR A SAFE, SUSTAINABLE FUTURE

AS WE FOCUS ON THE FUTURE of mining, we must start thinking differently and working smarter.

The fusion of progressive technology and environmental innovation has ushered in a new era in mining. The integration of advanced technologies, such as artificial intelligence, autonomous vehicles and tools, and data analytics into traditional mining processes, is paving the way toward optimized operations, enhanced productivity, minimized environmental impact, and the improved health and safety of workers.

At Hatch, we've grown with the industry. We have over six decades of unparalleled experience mitigating and eliminating hazards through a systems-safety approach to risk. This includes using tracking devices to monitor the alertness and fatigue levels of workers,



dashboard cams on vehicles to reduce the risks of accidents, and sensors to transmit data about equipment health, seismic activity, structural integrity, and air quality.

Decarbonizing mining opera-

tions is another priority. Electrifying fleets, adopting renewable energy sources such as wind, solar, and green hydrogen, and employing digital tools to manage tailings risks are key strategies reshaping the industry.

Digital twin technology further enables real-time monitoring and performance optimization.

As we transition from fossil fuels to renewable energy, the industry faces the dual challenge of meeting burgeoning demand while addressing pressing environmental, social and governance (ESG) standards. By leading with a community-first approach, such as engaging Indigenous and local communities, we bring populations to the forefront of the decision-making process, developing inclusive. win-win solutions that provide jobs, protect the environment. and benefit all stakeholders.

Smart mining represents a groundbreaking opportunity. Traditional mining is a complicated, multifaceted industry with many challenges that require extensive expertise and cross-sector capabilities. Developing proactive solutions to embrace emerging technologies will foster innovative, sustainable, practices that reduce risks and create a safer, greener future for the mining industry.

For more information, visit hatch.com

→ GOLD SPONSOR: **DRA GLOBAL LIMITED (DRA)** STAND: **G06**

BUILDING LONG-TERM RELATIONSHIPS THAT DRIVE SUSTAINABLE GROWTH

DRA GLOBAL LIMITED (DRA) is an international, multi-disciplinary engineering, project delivery, and operations management group specializing in the mining, minerals, and metals sectors. With over 40 years of experience, DRA has established itself as a trusted partner in delivering projects that help drive society forward.

As the global demand for critical minerals continues to grow, innovation remains at the forefront of DRA's global strategy, supporting advancements of technologies in energy, infrastructure, and more. With deep industry expertise the Group adds valuable contributions to

discussions around critical minerals, powering vital industries, from clean energy to the AI

DRA understands the importance of responsible partnerships in mineral-rich regions. The organization's approach builds long-term relationships that drive sustainable growth in supplier countries. From local community engagement to partnering with local suppliers, DRA is committed to fostering investment opportunities that create lasting benefits for both its clients and host nations.

With a firm commitment to sustainability, DRA delivers innovative solutions in green technology that meet the evolving demands of industries like mining and metals. As the world accelerates toward digital transformation, DRA helps clients power the AI revolution by providing the minerals and infrastructure needed to support smart technologies and low-carbon energy solutions.

Across the world, more than a dozen sites are overseen by DRA's operations and maintenance division, delivering optimal performance for clients. In 2015, the organization was awarded an operations and maintenance contract in Riyadh, Saudi Arabia, which has seen remarkable growth,

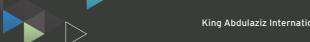


focusing on localization, staff training, sustainable development and continuous improvement.

With offices, operations and laboratories across Africa, the Middle East, North and South America, and Asia-Pacific, DRA combines global reach with local expertise, offering tailored solutions to meet the specific needs of clients worldwide.

For more information, visit draglobal.com/







→ GOLD SPONSOR: **POLYUS** STAND: **GS09**

POLYUS PIONEERS SUSTAINABLE MINING

Ahead of FMF25, Polyus CEO Alexey Vostokov shares the company's experience with green and AI technologies, tested and implemented at its operations in remote and isolated regions of Siberia and the Far East.

POLYUS HAS LONG BEEN A leader in climate-conscious mining, achieving a significant milestone in 2021 by becoming the first major gold producer globally to power its operations entirely with renewable energy. Building on this foundation, we aim to achieve carbon neutrality by 2050 and are further exploring renewable and low-carbon energy solutions to power and heat our mining sites.

Our primary focus, however, is operational and energy efficiency. The former is achieved through the seamless integration of AI into geological exploration, drilling, blasting, excavation, transportation, and ore processing. It is not about excluding employees from the production process entirely but rather providing them with an



Alexey Vostokov, CEO, Polyus

opportunity to shift their focus from routine operations to analyzing process performance.

For example, Al-powered models enable precise predictions of ore processing performance based on geological data and advise operators on optimizing production processes.

To enhance energy efficiency, we have launched an automated fuel and energy resource management system that reduces energy losses and improves

heating equipment efficiency by utilizing data from a digital twin of the heating network.

Another area we are currently exploring is hydrogen technology. In a pilot project, we are replacing backup diesel generators with hydrogen fuel cells to power IT infrastructure at one of our mines. If successful, the project will be extended to other our remote sites in Siberia and the Far East. Hydrogen generators are compact, quiet, environmentally friendly, and energy efficient. They also help reduce costs and emissions associated with fuel transportation to remote areas.

Finally, we have embarked on transitioning from diesel to an electric vehicle fleet. Our first step was replacing vehicles and loading equipment operating in undercover facilities at our largest site, which has reduced emissions and minimized health risks for personnel.

We hope that sharing our practices at the forum will contribute to advancing Kingdom of Saudi Arabia's sustainable mining efforts and align with its vision for a greener future.

For more information, visit polyus.com

→ GOLD SPONSOR: **SAMIR ODEH GROUP** STAND: **G11**

SOG: DRIVING QUALITY IN MINERALS, MINING, AND **METALS MANAGEMENT**

ESTABLISHED IN 1968 AND headquartered in Riyadh, KSA, the Samir Odeh Group (SOG) has built a 57-year legacy as a family-owned business and a regional leader in minerals, mining and metals. Our expertise extends to industrial spare parts, uptime solutions, and conveyor belt services.

With seven branches in KSA and 16 across the GCC, SOG operates a robust network powered by over 450 professionals, serving 7,000+ clients. Leveraging SAP's ERP system, we optimize stocking processes to deliver operational efficiency and reliability.

Representing leading global



brands like Schaeffler, Optibelt, Regal Rexnord and Fenner Dunlop, we offer comprehensive solutions that enhance manufacturing uptime, improve profitability, and optimize cash

flow. Our innovative services, such as Vendor Managed Inventories (VMI) and Consignment (CNMT) sales, ensure seamless operations for our clients.

For conveyor belting specif-

ically, we have installed and maintained over 40,000 meters of conveyor belts across the Middle East. Our comprehensive services include the removal and installation of fabric rubber and steel cord wire belts, welding of joints, maintenance, alignment, and installation of idler pulleys and skirting rubber, ensuring high-impact results for critical industries.

Aligned with Vision 2030, and championed by His Royal Highness Prince Mohammed bin Salman bin Abdulaziz, we drive economic diversification through local spare parts manufacturing and job creation.

Visit us at the Gold Sponsors Zone during the Future Minerals Forum from January 14-16, 2025, to discover how SOG combines tradition and innovation to lead the industry forward

► For more information, visit samirodeh.com





→ GOLD SPONSOR: UNITED CEMENT STAND: GS19

UCIC: SHAPING A GREENER AND SUSTAINABLE FUTURE FOR CEMENT PRODUCTION

FOUNDED IN 2013, United Cement Industrial Company (UCIC) has promptly become a pioneer in sustainability and innovation, proving that modern plants can surpass legacy players in environmental responsibility. With an annual capacity of 1.6 million tons of clinker and 2 million tons of cement, UCIC operates a fully automated, cutting-edge facility that meets the highest global standards.

UCIC has made significant steps in sustainability, achieving a 35% reduction in CO2 emissions, a 25% decrease in energy consumption, and a 32% improvement in specific power efficiency since 2016. According to SEEC's 2023 performance, UCIC ranks 2nd among 19 plants



in electric efficiency and 13th out of 39 plants in thermal efficiency, despite fuel challenges. The plant integrates solar energy, wastewater recycling, and industrial byproducts to minimize natural resource reliance, positioning it among the most energy-efficient plants globally. Emissions are maintained at levels comparable

to Europe's best, while waste is virtually eliminated.

UCIC's commitment to the environment extends beyond its operations. Over 30,000 trees have been planted using efficient irrigation systems powered by recycled water. The company produces 40% green cement, aligning with Saudi

Vision 2030's sustainability goals. Furthermore, kiln bypass dust and other byproducts are repurposed for industrial uses, setting a benchmark for zero-waste initiatives.

UCIC also invests in people and communities. With 2,500 to 4,500 annual training hours, it fosters excellence and innovation. The company proudly maintains its Platinum NITAQAT status with 65% Saudization. It actively promotes corporate social responsibility, impacting the community positively.

UCIC has earned increased trust as an approved supplier for key sectors, including the Ministry of Transport, Ministry of Housing, and municipalities. With over 15 million tons of cement supplied and 100% delivery efficiency. UCIC is certified in ISO 9001, ISO 14001 and ISO 45001, demonstrating its commitment to shape a greener, sustainable future for cement production.

► For more information, visit unitedcement.org

→ SILVER SPONSOR: **KSB PUMPS ARABIA** STAND: **SS05**

KSB PUMPS ARABIA: LEADING LOCALIZATION IN SAUDI ARABIA'S PUMP INDUSTRY

KSB PUMPS ARABIA (KSB PA) is rapidly establishing itself as a leader in the Saudi Arabian pump industry, spearheading localization efforts that are transforming the sector. This commitment extends beyond simple assembly; it encompasses comprehensive manufacturing, robust supply chain management, and a deep investment in local talent.

KSB PA's dedication to localization is reshaping the Saudi market. By establishing a state-of-the-art manufacturing facility within the Kingdom, KSB PA is not only meeting the growing demand for high-quality pumps but also contributing significantly to the national economy. This localized production reduces reliance on imports, shortening lead times



and enhancing supply chain resilience. The move directly supports Saudi Vision 2030's goals of economic diversification and job creation.

This commitment to localization extends to human capital. KSB PA actively recruits

and trains Saudi professionals, fostering a skilled workforce capable of handling sophisticated manufacturing processes and technical challenges. This investment in local talent ensures long-term sustainability and empowers Saudi

nationals to play key roles in the pump industry's growth.

Beyond manufacturing, KSB PA is actively engaged in developing strategic partnerships within the Saudi ecosystem. These collaborations encompass local suppliers, engineering firms, and industry stakeholders, further strengthening the localized supply chain and fostering innovation within the

KSB PA's localization strategy is not merely a business decision; it is a commitment to the long-term growth and prosperity of Saudi Arabia. Through its impactful contributions to the pump industry, KSB PA is demonstrating a model for successful localization and setting a new standard for excellence in the region. This commitment positions KSB PA at the forefront of Saudi Arabia's industrial development, ensuring a reliable supply of high-quality pumps for years to come.

For more information, visit ksb.com







→ SILVER SPONSOR: **SOLB STEEL** STAND: **SSO3**

METAL, A FUNDAMENTAL PILLAR OF DEVELOPMENT

The metal industry is considered one of the fundamental pillars of nations' development and prosperity, serving as the backbone of heavy industries and infrastructure, writes Managing Director and CEO of Solb Steel, Eng. Misfer Bin Hamad Al-Hajri.

THIS INDUSTRY CONTRIBUTES to the economy by providing raw materials essential for various sectors such as construction, manufacturing, and technology. Metals, especially iron and steel, play a significant role in shaping the urban and industrial development of countries.

The Role of Rebars: As a key element in the construction sector, reinforcement steel contributes to building structures, bridges, and infrastructure that form the foundation of economic growth. It enhances the durability of engineering projects and ensures their sustainability for many years. Additionally, the Rebar industry acts as a driver for creating direct and indirect job opportunities, improving living standards, and boosting overall productivity.

Moreover, the metal industry leads to technological advancement and increased innovation in mining and recycling, making nations less dependent on imports and enhancing their global competitiveness.

We can further elaborate on the broader role of the metal industry and rebar in the growth of nations:

■ Economic Development:

The metal industry generates significant job opportunities across mining, manufacturing, transportation, and export sectors. It also contributes to increasing national GDP through metal exports and products, enhancing countries' ability to achieve economic indenendence

■ Infrastructure and Urban **Development:**



Eng. Misfer Bin Hamad Al-Hajri, Managing Director and CEO of Solb Steel

Rebar is a cornerstone of major urban projects such as building smart cities, high-rise towers, dams, and bridges. This infrastructure improves quality of life and attracts both local and foreign investments.

■ Strategic Security:

Metals such as steel, copper, and aluminum are considered strategic resources. Nations with advanced metal industries are better equipped to support defense,

energy, and technology sectors, strengthening their national security and independence.

Environmental Sustainability:

Due to technological progress, metal industries are increasingly focused on sustainability through improved mining and recycling processes. The rebar industry, for example, relies heavily on recycling scrap metal, reducing the depletion of natural resources and protecting the environment.

■ Supporting Other Sectors: Metals form the foundation for other industries such as energy, automotive, aviation, and electronics. Without a developed metal industry, these interconnected sectors would face challenges, hindering comprehensive development.

In conclusion, investing in the metal industry, particularly rebar, is not merely a means to achieve economic growth but an investment in the future of nations. It ensures sustainable development and enhances their competitiveness on the global stage.

For more information, visit solbsteel.com

→ SILVER SPONSOR: **BGP** STAND: **SSO4**

BGP EXTENDING GEOPHYSICAL SERVICES TO MINERAL EXPLORATION

BGP IS AN INTERNATIONAL company that provides a full range of integrated geophysical solutions to its energy sector clients. It was founded in 1951 with its headquarters in China and currently is considered the largest seismic acquisition company in the world in terms of operations as it has more than 160 onshore seismic crews and over 100 offshore acquisition vessels.

BGP has started its seismic acquisition operations in Saudi Arabia since 2003 in support of Saudi Aramco exploration and reservoirs development programs. It inaugurated a new technology center in Al-Khobar in June 2023 to deploy advanced geophysical technologies in the region and enable qualified



Drones flying per planned paths to map target areas.

Saudis through detailed training programs to conduct projects in support of clients.

With its long successful history in supporting the oil and gas companies, BGP is extending its services to the mining business and has been providing its clients with the acquisition, processing, and interpretation

of gravity, magnetic and electromagnetic data that is conducted on land, marine or airborne. Expertise portfolio also includes airborne or drone LiDAR, airborne or drone electromagnetic, Magnetotelluric (MT), time domain electromagnetic (TDEM), electrical resistivity tomography (ERT), time-frequency electromagnetic (TFEM®), and borehole to surface electromagnetic (BSEM®). BGP has also built its experience in manufacturing non-seismic instruments and designing software packages for processing and interpreting acquired data.

BGP has conducted several Drones Transient Electromagnetic (DTEM) surveys over large areas for mineral exploration. This is an example of mapping the distribution of cavities resulting from a surface collapse over a copper and nickel mountainous mine in Western China. The cooper-nickel ore is deposited over the basic bedrock and log data showed large resistivity vertical variation. Both the rich copper-nickel ore and water filled cavities presented low resistivities while the intact cavities free of water showed very high and that is the basis for using DTEM.

For more information, visit bgp.com.cn





→ MINERAL TECH ZONE: **GEOTEK** STAND: **TB09**

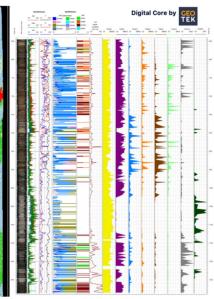
NEAR REAL-TIME GEOLOGICAL DATA FOR FASTER DECISIONS

GEOTEK IS A MANUFACTURER and service provider of both lab and field-proven portable multi-sensor core and cuttings (chips) scanners such as BoxScan. At Geotek, we understand the importance of capturing data in near real-time to inform geologists when making critical project decisions. Underpinning our solutions are four core pillars focussed on sample preparation; multi-sensor scanning; creation and curation of the digital core lab; and harnessing ML/AI to make the most of that data. Generating repeatable, reliable and robust data in an automated manner reduces uncertainty and leads to more informed decision making.

Over the years our instrument capabilities have evolved dramatically, with digitization



and visualization of core and cuttings (chips) samples acting as the main driving force. Our



data acquisition processes have developed into a comprehensive workflow that combines the

petrophysics, mineralogy, chemistry and imaging datasets in order to enable our clients to develop a digital core yard. Increasingly the application of machine learning and Al is being harnessed to further enhance understanding.

Geotek provides onsite core and cuttings (chips) scanning equipment as sales, lease or service as well as onsite consultancy and training through our talented team of geoscientists, technicians, and partner organizations. In addition, if a customer doesn't have the space for the equipment or wishes for temporary installation, Geotek can provide mobile container labs. We have three decades of experience mobilizing core scanners to site, and our vision is to see all core and cuttings (chips) digitized so we can maximize our window to the sub-surface

For more information, visit geotek.co.uk

→ MINERAL TECH ZONE: NAJABAH STAND: TB07

NAJABAH: REDEFINING PRECISION AND INNOVATION IN THE UAV INDUSTRY

NAJABAH IS PROUD TO participate in the prestigious Future Minerals Forum Exhibition this January, reflecting our commitment to advancing technological innovation in Saudi Arabia's rapidly evolving landscape.

Founded with the vision to revolutionize aerial services, Najabah specializes in delivering cutting-edge UAV (Unmanned Aerial Vehicle) solutions tailored to meet the specific needs of various industries across the Kingdom. From precise mineral exploration to infrastructure inspections, our services are designed to ensure efficiency, reliability, and cost-effectiveness, all aligned with Saudi Arabia's goals for technological advancement.

Our approach at Najabah is driven by innovation, collaboration, and a dedication to

excellence. Through strategic partnerships with globally renowned drone manufacturers, we provide state-of-the-art UAV services that enhance data collection and streamline

decision-making processes. By integrating advanced technologies with local expertise, Najaba has become a trusted partner in sectors such as mining.

The Future Minerals Forum



offers us a platform to showcase these capabilities to a global audience and reinforce our role in supporting Saudi Arabia's transformation into a center for innovation. This event will also provide opportunities to engage with thought leaders and industry experts, helping us further our mission of setting new standards for UAV applications.

As we prepare for this significant event, we are eager to share our journey and demonstrate how Najabah is driving progress in the UAV sector. Our mission is not just to deliver services but to inspire a future where drone technology becomes a critical tool for sustainable development and industrial growth.

Visit our booth at the Future Minerals Forum to learn more about how Najaba is reshaping industries and driving efficiency and innovation. Together, we can elevate precision and unlock new possibilities for a smarter future.

For more information, visit najabahco.com







→ MINERAL TECH ZONE: **LITHIUM INFINITY LLC** STAND: **TBO3**

LITHIUM INFINITY LLC (LIHYTECH): PIONEERING THE FUTURE OF LITHIUM **EXTRACTION IN SAUDI ARABIA**

LITHIUM INFINITY LLC (Lihytech) is a Saudi startup founded in late 2021, supported by King Abdullah University of Science and Technology (KAUST) and Ma'aden. The company has developed a groundbreaking Direct Lithium Extraction (DLE) technology capable of extracting battery-grade lithium from harsh brines having magnesium/lithium molar ratios of up to 3258 and lithium concentration as low as ~0.15 mM (i.e., 1 ppm), a feat beyond the reach of any DLE technology.

Traditional lithium extraction relies on large evaporation ponds and intensive mining

operations, which consume vast land and water resources. DLE, by contrast, uses advanced techniques to extract lithium directly from brines, eliminating land use requirements, drastically reducing water consumption, and minimizing environmental impact. While DLE is faster and more efficient than conventional methods, most technologies struggle with inferior resources, such as oil and gas-produced water with lithium concentrations below 200 ppm. Lihytech's innovation addresses this gap, unlocking new opportunities for lithium sourcing.



Lihytech has developed a groundbreaking Direct Lithium Extraction (DLE) technology

Lihytech operates a pilot plant at KAUST Research and Technology Park (KRTP), testing produced water from oil and gas fields with third-generation

equipment. The potential of its technology was recently validated by publication in Science Magazine, underscoring its innovative and commercial viability.

As Saudi Arabia accelerates its Vision 2030 goals, it plans to manufacture 300,000 electric vehicles (EVs) annually by the end of the decade. This ambitious target requires a complete ecosystem, including raw material sourcing, battery production, vehicle assembly, and charging infrastructure. At Lihytech, our mission is to secure a reliable supply of lithium to support the Kingdom's emerging EV industry and ensure the resilience of its critical mineral supply chain by extracting lithium from local resources, enabling Saudi Arabia's green mobility transformation.

For more information, visit lihytech.com

→ MINERAL TECH ZONE: **EVIDENT** STAND: **TB09**

EVIDENT: RUGGED ANALYZERS OPTIMIZED FOR MINING AND GEOCHEMISTRY

EVIDENT'S VANTA™ PORTABLE XRF (pXRF) analyzers offer accurate elemental analysis on the spot for mineral exploration, ore grade control, mineral processing, laboratory applications, environmental monitoring and remediation, and academic/ educational research.

Vanta Max analyzers are optimized for mining and geochemistry. Their rugged design means geologists working in remote areas can confidently produce results even in difficult conditions. With an ability to operate in temperatures up to 50 °C (122 °F) at full duty cycle and an IP54 rating for water and dust protection, Vanta Max analyzers are exceptionally durable for hot climates. The analyzers are tested to US military standards (MIL-STD-810G) to protect against falls and reduce the need for costly repairs. A comprehensive 3-year warranty keeps the cost of ownership low. Evident supplies Vanta pXRF



analyzers to gold mining companies around the world. Our pXRF analyzers are typically

used for the analysis of gold pathfinder elements, such as arsenic (As), antimony (Sb),

silver (Ag), copper (Cu), lead (Pb), and zinc (Zn), and for lithological discrimination to identify rock types and stratigraphy. Vanta analyzers are routinely used to explore and mine the critical minerals Cu, nickel (Ni), cobalt* (Co), manganese (Mn), and phosphate. Despite an inability to detect lithium (Li), pXRF analyzers are being used more routinely in Li exploration of pegmatites, primarily through analysis of rubidium (Rb), potassium (K), cesium (Cs), and tantalum (Ta). These elements can indicate the fractionation and potential fertility of these rock types.

Evident provides comprehensive training, application development, and technical support through a dedicated geochemistry team and a global distribution and service network.

Evident is dedicated to making people's lives healthier and safer. We are committed to responsibly doing business and serving our markets in alignment with the Guiding Principles on Business and Human Rights set forth by the United Nations.

For more information, visit evidentscientific.com

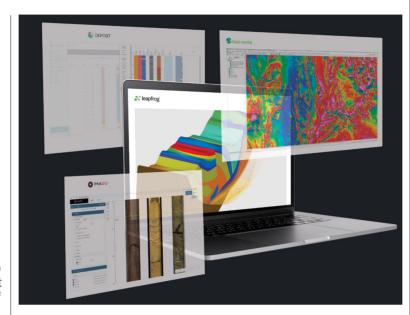




→ MINERAL TECH ZONE: **SEEQUENT** STAND: **TB01**

HOW TO UNDERSTAND THE UNDERGROUND

SEEQUENT HELPS organisations understand the underground, with world-leading earth-modelling, analysis, data management and collaboration software. We serve the mining, civil engineering, energy and environmental industries with an extensive portfolio supporting geological, geophysical and geotechnical workflows. In mining, our software solutions help companies unlock the value of subsurface data to transform exploration and mine performance with actionable geoscience intelligence. Globally, 80 per cent of the world's top mining companies use Seequent software including thousands of mids and juniors. In 2023, users of our 3D modelling software Leapfrog produced nearly 200,000 new geological models, providing crucial insights for mining, civil, energy and



environmental projects.

Speaking with Future Minerals Forum (FMF), Colin Hay -Executive Vice President EMEA for Seeguent - said "Seeguent

has a strong and established presence in the GCC, with our software widely adopted across the region. We proudly serve some of the most prominent

mining companies in Saudi Arabia, Bahrain, Jordan, Kuwait, Oman, Qatar, and the UAE.'

"We see significant potential in the region and the value that will be generated through mineral extraction and infrastructure engineering. While we've participated as delegates at previous FMF events, we are excited to participate this year as exhibitors. Additionally, we are strengthening our commitment to the region by hiring more Seeguent team members who will be based locally" added Hay.

Seequent's technical experts will be on hand at booth TBO1. in the Technology Zone, to discuss exploration requirements and demonstrate our solutions. Colin Hay will be attending FMF in Riyadh.

In addition, Seequent partner SRK will deliver an SRK Masterclass in Mineral Resource Estimation at the Centro Olaya, Riyadh, from 12-14 January 2025.

For more information, visit seeguent.com

→ MINERAL TECH ZONE: **DIAS** STAND: **TB08**

DEEP SEARCH TECHNOLOGIES TRUSTED BY SOME OF THE WORLD'S LARGEST MINERS

DIAS IS A LEADER IN GROUND and airborne geophysical surveys and trusted by some of the largest exploration and mining companies in the world. Our technologies enable clients to uncover critical mineral deposits such as gold, silver, copper, lithium, uranium, iron, zinc and more.

At its core, Dias finds what's under the earth's surface. What sets us apart is the ability to produce more accurate results to greater depths and with higher resolution. Dias is a passionate team of scientists and engineers developing groundbreaking technologies to image the Earth's subsurface. Our technology is built to conquer severe climates and challenging terrain, making



Dias the leading ground and airborne geophysical company

in the world. Much of our surveys are physically demanding

and often carried out in remote areas of the world. Dias places the highest priority on safety standards maintained throughout the project.

Most of the world's surface minerals have already been mined, which makes Dias' work so valuable as its deep search technologies are non-invasive and environmentally friendly.

Dias ever evolving technologies are poised to address challenges in the exploration sector as the need for critical minerals and infrastructure monitoring grows.

With offices in Australia, Canada, Chile and Mexico -Dias has carried out hundreds of commercial surveys on six continents in countries such as Argentina, Australia, Canada, Chile, China, Czech Republic, Dominican Republic, India, Kazakhstan, Mexico, Peru, Mali, Saudi Arabia, West Africa and the USA.

For more information, visit diasgeo.com





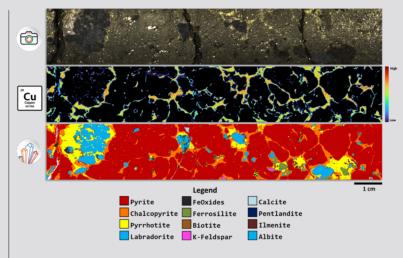


→ MINERAL TECH ZONE: **ELEMISSION** STAND: **MLO3**

ECORE: REVOLUTIONIZING THE **DISCOVERY AND EXTRACTION** OF CRITICAL MINERALS

AS THE WORLD ACCELERATES towards a green energy future, the demand for critical minerals has surged. Efficient and innovative exploration technologies are essential to meet this need. ELEMISSION's ECORE technology, a high-speed laser-induced breakdown spectroscopy (LIBS) core scanner, addresses this challenge by transforming traditional exploration workflows.

ECORE eliminates delays in chemical assays and mineralogical analyses, providing real-time data directly onsite. Capable of detecting nearly every element on the periodic table, ECORE offers unparalleled versatility for a range of samples, including drill core, rock slabs, and pressed powders. The Smart Automated Mineralogy (SAM) algorithm



generates precise mineralogical maps, facilitating rapid decision-making in exploration and mining operations.

For massive sulfide deposits,

which host critical metals like copper, nickel, and cobalt, ECORE's precision enables the differentiation of similar sulfide minerals such as pyrite and pyrrhotite, optimizing production strategies. Similarly, in lithium pegmatite deposits, ECORE excels in detecting light elements like lithium and beryllium, essential for battery materials. Its real-time chemical assays align closely with laboratory results for lithium analysis.

By integrating advanced LIBS technology, ECORE empowers mining companies to optimize exploration, reduce delays and enhance sustainability. Its capabilities align perfectly with the themes of the Future Minerals Forum: advancing green technologies, promoting responsible mining, and supporting the global transition to clean energy. ELEMISSION's commitment to innovation positions ECORE as a key enabler of resilient and responsible mineral value chains.

Discover how ECORE is transforming the mining landscape and accelerating the discovery of the critical minerals essential for a sustainable future.

For more information, visit ecore.elemission.ca

→ MININGHUB: **ANDIAMO EXPLORATION** STAND: **MH02**

ANDIAMO EXPLORATION: UNLOCKING CRITICAL MINERALS IN THE ARABIAN NUBIAN SHIELD

ANDIAMO EXPLORATION IS thrilled to be participating in the Future Minerals Forum 2025. reaffirming our commitment to discovering the critical minerals essential for the green economy. As pioneers in mineral exploration, Andiamo is at the forefront of unlocking the mineral wealth of the Arabian Nubian Shield. Our team, with extensive expertise in grassroots exploration and commercial production, has been instrumental in key discoveries, including Bisha, Zara, and Asmara in Eritrea.

Since 2008, Andiamo has focused on uncovering and developing both precious and base metal resources within Eritrea. Our flagship Haykota license



spans 55 kilometers along the prolific Bisha metallogenic belt, hosting a wealth of copper and gold prospects.

We have recently completed

a technical and economic study for the Yacob Dewar gold project and are now preparing a mining license application, with production targeted for next

year. Within the Haykota license, we have also identified additional gold, copper, and zinc VMS and orogenic gold targets, which could significantly enhance the development potential of Yacob Dewar. Moreover, we are pursuing licenses for other critical minerals across Eritrea, further underscoring our commitment to resource diversification.

As part of our expansion strategy, Andiamo is extending its reach beyond Eritrea. We have launched exploratory initiatives in Saudi Arabia, leveraging the region's mineral potential, and are actively seeking local partnerships to accelerate our growth in this dynamic new market.

Andiamo Exploration remains dedicated to advancing critical mineral projects and contributing to the sustainable future of global industries.

Join us at the Future Minerals Forum 2025 to explore our efforts in shaping the future of mineral exploration.

For more information, visit andiamoexploration.com





INTERNATIONAL EXHIBITION: A GLOBAL SHOWCASE OF INNOVATION AND EXCELLENCE

longside the many illustrious speakers and panellists from the global minerals and metals sector who will contribute to its influential agenda, Future Minerals Forum hosts a unique trade exhibition. This is held in tandem with a number of other features and business lounges providing networking opportunities for the many thousands of professionals

attending the FMF.

The exhibition bridges thought leadership with solutions across the entire minerals value chain. It provides a dual opportunity for enablers and innovators of change to drive specialized conversations in a hands-on environment where exhibits include some of the most cutting-edge technologies and innovations in the minerals and mining industry.

Our aim is to provide thousands of professionals working in the region of Africa, Western and Central Asia with a unique platform to gain insight into advanced solutions and technologies from leading international organizations. These contributions are essential for ensuring a resilient supply of minerals across all phases, from exploration and extraction to the downstream

manufacturing and distribution sectors.

We look forward to warmly welcoming you as you join us at the King Abdulaziz International Conference Center (KAICC) in Riyadh for this truly international minerals and metals gathering.

In the meantime, in the following pages you can read about just some of the many leading companies who will be taking part in the exhibition.













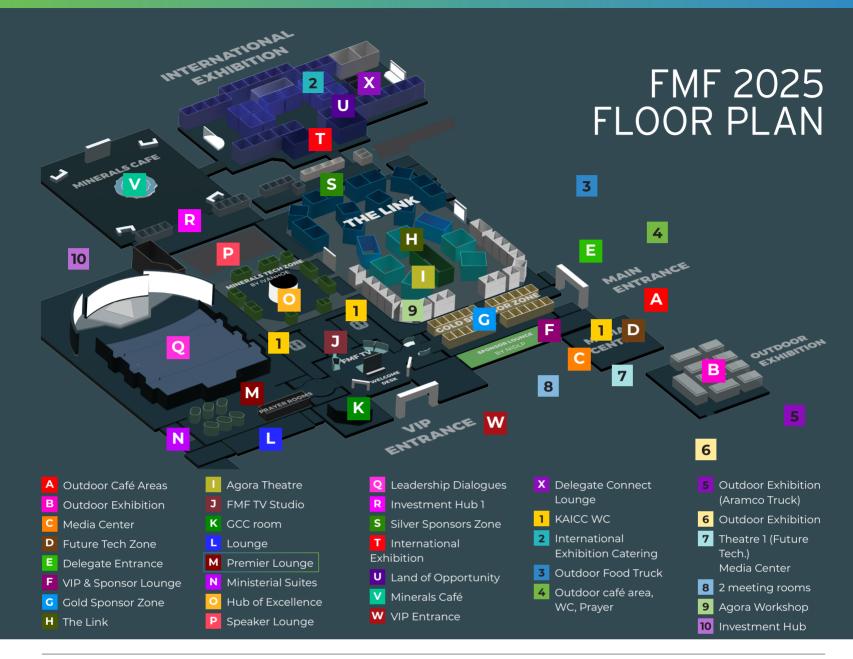












→ EXHIBITOR: ICCIMA STAND: EX44

CHAMPIONING THE IRANIAN MINING SECTOR

THE IRAN CHAMBER OF Commerce, Industries, Mines, and Agriculture (ICCIMA) stands as a leading, fully non-governmental, knowledge-driven, and inclusive institution devoted to advancing the collective, professional, and individual interests of its diverse membership. Representing Iranian traders, industrialists, and business professionals, ICCIMA serves as a vital platform for fostering economic collaboration and reinforcing the pivotal role of the private sector in shaping Iran's economic landscape.

Committed to its mission, ICCI-MA actively promotes initiatives that stimulate private sector



growth and entrepreneurship. It serves as a critical bridge between Iranian enterprises and their international counterparts, fostering bilateral and multilateral economic cooperation. Moreover, the chamber emphasizes the importance of corporate social responsibility, ethical business practices, and the creation of a transparent, progressive business environment in Iran.

Within this overarching framework, the Iran Mine House (IMH) emerges as the foremost and most comprehensive organization representing Iran's mining sector. Registered under the auspices of ICCIMA, IMH acts as a unifying body for private sector entities engaged in mining activities. With 31 representative offices strategically dispersed across the nation, IMH is steadfast in its mission to foster collaboration among stakeholders, champion sustainable development within the mining industry, and advocate for the rights and interests of private sector participants.

IMH further strengthens the sector by serving as a cohesive voice for the mining industry, driving policy reforms, and ensuring that private sector objectives align seamlessly with national economic priorities. Through its multifaceted efforts, IMH not only enhances the operational landscape of mining activities but also highlights the indispensable role of mining in advancing Iran's economic diversification and sustainable mining development strategy.

For more information, visit en.iccima.ir





→ COUNTRY PARTNER: **PAKISTAN** STAND: **CAO3**

PAKISTAN: THE MINERAL MARVEL

Pakistan stands poised to emerge as a global leader in the mining sector, presenting unparalleled opportunities for investors to explore its vast, untapped mineral wealth. Positioned strategically on the world's mineral map, this 'Mineral Marvel' is ripe for discovery and exponential growth.

A RICH GEOLOGICAL **LANDSCAPE**

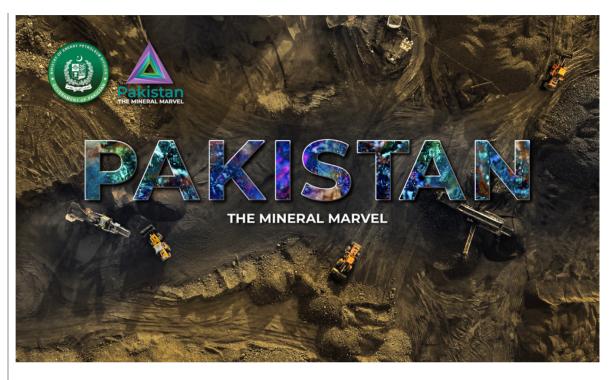
The Tethyan Metallogenic Belt, a globally recognized porphyry copper-gold mineralized zone, traverses western Pakistan. holding immense potential for copper and gold mining. Beyond this belt, geological surveys reveal an abundant diversity of untapped mineral and gemstone reserves spread across the country. From industrial minerals such as salt, limestone, and gypsum to precious gemstones like emeralds, rubies, and topaz found in the northern regions, Pakistan's mineral wealth is truly expansive. Additionally, rare earth elements like lithium-critical for modern technologies-are scattered across its western regions.

INCENTIVES AND INFRASTRUCTURE DEVELOPMENT

Recognizing the importance of incentivizing investment, the government has implemented a range of attractive measures, including:

- Tax Breaks: Operators benefit from reduced tax burdens, enhancing profitability.
- Duty Exemptions: Mining-related equipment is exempted from import duties, reducing operational costs.
- Foreign Ownership Flexibility: Investors can enjoy significant ownership privileges in mining ventures.
- Infrastructure Expansion: Efforts are underway to enhance port facilities, railways, and highways, ensuring efficient transport corridors for mining outputs.
- Advanced Geological Surveys: Comprehensive surveys have been and continue to be conducted to map and identify promising mineral blocks for investment.

A SUSTAINABLE MINING **FUTURE**



























Pakistan's nascent mining sector offers a unique opportunity to implement green technologies without the constraints of legacy systems. This 'Greenfield' potential aligns with global sustainability goals, positioning the country as an attractive destination for environmentally conscious investors.

HUMAN RESOURCE: PAKISTAN'S UNREALIZED WORKFORCE POTENTIAL

Pakistan's young and vibrant workforce is one of its greatest assets, and this potential is highlighted by the success of the Reko Dig project in Balochistan. Barrick Gold's partnership with government entities in this flagship coppergold project showcases the benefits of leveraging local talent. Approximately 77% of the workforce comprises local Baloch, supported by skill-development

initiatives and international training programs to enhance their technical expertise.

GOVERNMENT COMMITMENT: THE SIFC INITIATIVE

Under the aegis of the Special Investment Facilitation Council (SIFC), Pakistan's government has demonstrated unwavering commitment to developing its mining sector. With robust legal and fiscal frameworks designed to attract foreign and domestic investment, the SIFC serves as a single-window platform for streamlined, investor-friendly cooperation. This commitment is further reflected in initiatives such as the engagement of global experts to refine mining legislation and the announcement of a National Mining Conference in 2025, which aims to unite policymakers, investors, operators, and service providers.

WHY PAKISTAN?

Strategically located with in-country port capacity and proximity to international markets, Pakistan offers unmatched logistical advantages. Combined with an established banking sector and a mining-centric fiscal regime, the country is primed to exploit its vast natural resources. The government's proactive approach-exemplified by the SIFC's mantra, "From red tape to red carpet"-reflects its dedication to fostering a vibrant and investor-friendly mining sector.

With the spotlight firmly on mining, Pakistan invites global investors to explore its mineral marvels and forge partnerships for mutual growth and prosperity.

For more information, visit pakistanmineralmarvel.com







→ EXHIBITOR: **BECHTEL** STAND: **EX39**

DELIVERING WORLD CLASS ASSETS THAT ENABLE THE **ENERGY TRANSITION**

THE MINING SECTOR IS CRITICAL to underpinning the energy transition as the shift toward clean energy drives a huge increase in the need for the commodities that our customers produce.

Our customers are unlocking the resources for the future enabling the transition to electromobility, renewable energy, digitization, and smart infrastructure. And as the global population continues to grow, our customers are mining for the key ingredients to boost agricultural productivity and deliver social and economic growth for a better future.

The mining industry is looking to extract these vital resources to support net zero in a way that is more sustainable than the past, more attuned to local stakeholders / traditional landowners, and more focused on net zero and water usage. Bechtel has a critical | customers rely on Bechtel to



Ras Al Khair Aluminium Smelter during construction

role in supporting these efforts alongside our customers.

For Bechtel, the challenge is to deliver these commodities more efficiently and more responsibly to meet the world's ESG expectations and enable energy transition, electromobility, urbanization, and food security. Mining and metals

deliver their world class assets including copper and gold concentrators, industrial water supply systems, iron ore and bauxite bulk materials handling facilities, refineries, aluminium smelters, and phosphate plants.

By aligning everything we do to our customers' goals, Bechtel can help achieve operational and performance excellence.

We combine industry-leading innovation and integrated EPC for greater capital efficiency, and our unwavering commitment to safety, quality, and ethics helps us ensure we leave a lasting positive legacy in the communities we serve.

► For more information, visit bechtel.com

→ EXHIBITOR: **GEODRILL** STAND: **EXO1**

GEODRILL: A ONE-STOP DRILLING SOLUTION THAT DELIVERS RESULTS

ESTABLISHED IN 1998, Geodrill is a leading exploration drilling company with a fleet of 90 drill rigs operating in Africa and South America. The Company operates in Cote d'Ivoire and Mali in West Africa, Egypt in North Africa, and Peru and Chile in South America.

Geodrill provides Reverse Circulation, Diamond Core, Deep Directional Navi Drilling, Air-Core, Grade Control, Geo-Tech and Water Borehole drilling services to major, intermediate and junior mining companies and operates the largest most modern fleet of multi-purpose rigs.

Geodrill's multi-purpose rigs offer the versatility of providing both Reverse Circulation and



Diamond Core drilling and can be switched mid-way through a hole with minimal effort or downtime. This provides clients

with the flexibility and advantage of drilling both RC and Core methods in the same hole with the same rig, eliminating the

need to have two types of rigs on site, thus reducing standby, preparation and mobilization charges normally associated with switching rigs, therefore improving overall efficiency and lowering the customers all-in 'average cost per metre'. Geodrill also provides Air-core drilling, a popular method used by junior exploration companies in early-stage exploration.

Geodrill has always invested in modern equipment and world-class operations to supply its clients with a 'one-stop' drilling solution. The company's expertise, experience in the field, highest maintenance and HSE standards, and ESG vision and values have earned it a reputation for delivering results as demonstrated by its impressive rig growth, attributable to its strong culture of professionalism and customer satisfaction.

► For more information, visit geodrill.ltd





→ EXHIBITOR: ABDULLAH HASHIM INDUSTRIAL GASES & EQUIPMENT STAND: EX34b

INDUSTRIAL GASES AN ESSENTIAL COMPONENT IN MINING AND MINERALS

ABDULLAH HASHIM INDUSTRIAL Gases & Equipment is one of the leading industrial, medical and specialty gas manufacturers and suppliers in the Kingdom of Saudi Arabia. Founded in 1954, the Group's mission is to be the safest and most reliable supplier of gases, gas related equipment, and gas services in the Kingdom of Saudi Arabia and neighboring countries. The industrial gas sector plays a pivotal role in the mining and minerals sector, acting as enablers of efficiency, sustainability, and innovation in an industry that underpins global development.

Oxygen, for instance, is central to processes like gold leaching and smelting, where it enhances the combustion process, reducing energy consumption and emissions. It is



mainly used in froth flotation-a key technique in separating valuable minerals from ore-improves yield and quality as well as pressure oxidation (POX) process. Similarly, nitrogen finds

applications in inerting environments to prevent combustion during mining and processing, ensuring worker safety and operational continuity. Hydrogen, on the other hand, is gaining

prominence as a clean energy source for mining vehicles and machinery, signaling a shift toward greener practices in the sector.

Carbon dioxide is another versatile industrial gas used for mineral carbonation, a process that captures CO2 emissions by binding them with minerals to create stable compounds, aligning with the industry's push for carbon neutrality. Additionally, argon and other noble gases are employed in analytical techniques like mass spectrometry, crucial for mineral exploration and quality assessment.

As the mining and minerals industry adapts to global demands and sustainability goals, the role of industrial gases becomes even more pronounced. By enabling productivity, safety, and increased efficiency, the industry is able to optimize resource extraction, production and efficiency correlated with the global journey towards environmental sustainability.

► For more information, visit aha.com.sa

→ EXHIBITOR: XCMG STAND: EX34

MACHINERY TO MEET THE UNIQUE CHALLENGES OF MINING

XCMG HAS BEEN A LEADER in the manufacturing of advanced mining machinery, and our dedication to innovation over the decades has allowed us to develop an extensive range of products tailored to the unique challenges of the mining industry especially in resource rich countries like Saudi Arabia. Our machinery is designed for efficiency, resilience, and sustainability, empowering us to meet present demands while paving the way for a greener future.

The Vision 2030 initiative underscores the significance of the mining sector as a cornerstone of economic development, an ambition that aligns perfectly with XCMG's mission. We understand that our success hinges on effective collaboration with local partners,



government, and organizations to harness these valuable resources responsibly.

As we chart a course toward a sustainable mining industry, embracing new technologies is imperative. Automation, artificial intelligence, and

eco-friendly practices are not just fleeting trends; they are essential pillars for ensuring the future of our industry.

At XCMG, we are committed to investing in research and development to introduce cutting-edge solutions to the

mining sector, from the most advanced vehicles to intelligent equipment management systems. These innovations will enhance productivity while significantly reducing our environmental footprint.

We are enthusiastic about the promising opportunities ahead. By collaborating and sharing our knowledge, experiences, and best practices, we can establish new benchmarks for safety, efficiency, and sustainability in the mining

"In conclusion", says Han Ke, General Manager of XCMG Trading Co in Saudi Arabia, "I would like to extend my heartfelt gratitude to the organizers of the Future Minerals Forum for bringing us all together. Let's continue to inspire one another, fuel our ambitions, and work towards a brighter future for the mining industry in Saudi Arabia."

For more information, visit xcmg.com







→ EXHIBITOR: **DRILLING AND EXPLORATION CO. (D&E)** STAND: **EX30**

A COMPLETE SOLUTION FOR YOUR MINERAL RESOURCES **EXPLORATION NEEDS**

THE DRILLING AND Exploration Co. (D&E) is a proudly Saudi Arabian company, established in 2018 in Jeddah - KSA. Our vision supports a rapidly growing mineral exploration business in KSA and closely follows the Kingdom's mining vision 2030.

"We are very excited about the flourishing mining business in Saudia Arabia. KSA is determined to become the center of one of the world's most worthy regions for exploration, and we are fortunate to play a small part in this success story", said Mr. Saleh AlQubaisi - Company CFO.

D&E provides all types of exploration drilling services and geological services. The company owns diamond drills capable of reaching up to 2,500m in depth. We completed grade controls projects for key operating mines with our quality reverse circulation drilling team. We are the only Saudi company to own and operate underground drill-



ing rigs that serve underground operations in Saudi Arabia. The company builds its own diamond drill rigs in Europe and uses them at all its operations.

Our unique collaborations with sister companies offer an exclusive approach of a total solution for mineral exploration in KSA. We were the first to introduce a turnkey solution for small / medium exploration license development. Our combined solution guarantees fast tracking of exploration tasks within a reasonable cost and short timeframe. The company's services therefore offer an ideal solution for a broad spectrum of applications within the mining industry, bringing together our strength of knowledge and environmental sustainability.

For D&E this is an exciting time to showcase our solution at the Future Minerals Forum and we trust that companies from across the mining industry will find much of interest here in Riyadh. D&E is working on forging beneficial partnerships that are essential to creating the resilient, responsible minerals value chains that the world needs.

For more information, visit drillexp.com

→ EXHIBITOR: GINGER SOFRECO STAND: EX17

DISCOVER SMART MINING SOLUTIONS FROM GINGER SOFRECO

SMART MINING FOR SOCIALLY responsible and profitable operations Ginger SOFRECO is part of Ginger Group which provides solutions for projects both small and complex in geosciences, construction,

environment and economic & social development.

For more than 90 years, our teams have been on the forefront of Geoscience engineering and consulting services in France and across the world

pooling expertise recognized by our clients and peers.

After 15 years of successful project implementation in the Kingdom of Saudi Arabia. we are excited to start the operations of our new company



Ginger SOFRECO Engineering Consultancy, fully based in the Kingdom of Saudi Arabia.

Building on the expertise of our Group, we bring to each project not only the technical expertise, but also the know-how in organization, financing, social responsibility and environmental sustainability, hence supporting our clients in all stages of project development, driving investment decisions and optimizing project execution.

Our fields of expertise in mining and metals include:

- Exploration and mineral resources development
- Mining studies
- Mineral processing
- Geotechnics
- Environmental engineering, mine closure & rehabilitation
- · Mining sector governance

For more information, visit mines-industries.sofreco.com



→ EXHIBITOR: MSA ARABIA STAND: EX33

SPECIALIST TECHNICAL SERVICES FOR EXPLORATION **WITHIN KSA**

MSA ARABIA WILL AGAIN BE exhibiting at the 2025 Future Minerals Forum and the company continues to grow from strength to strength within the Kingdom. The Regional Director of MSA Arabia, Antony Benham, states that the future of the mining industry in KSA continues to develop and grow. "We are seeing more and more exploration companies taking an interest in the Kingdom and taking out their own exploration licences or winning blocks under the ongoing auction process. This is extremely encouraging for both KSA and to MSA Arabia who are pleased to be part of developing opportunities for the Kingdom and our clients".

MSA Arabia is a joint venture



between The MSA Group and The Al-Rushaid Group (ARPIC). MSA has been providing high-quality technical consulting services to the Saudi Arabian mining sector since 2013 and has a well-developed

understanding of the geological and mining landscape and potential. MSA has worked on well over 100 individual occurrences in KSA, on projects ranging from greenfields exploration to operating mines, and on a

wide range of commodities including Precious and Base Metals and Critical and Industrial Minerals. MSA's specialist solutions include geological and exploration program planning and execution, mineral resource estimation, competent person code-compliant reporting, technical Due-Diligence and multi-disciplinary mining studies.

ARPIC was established in 1978 and is a leading Saudi-owned conglomerate involved in mining, manufacturing, construction, engineering, trading, commercial real estate, and technology. It is headquartered in Khobar, KSA and has offices in the UAE, the United Kingdom and the USA.

MSA Arabia will be sharing its stand at FMF 2025 with another company associated with ARPIC, Jac Rijk Al-Rushaid Co. Ltd, a leading Mining and Infrastructure service provider in KSA.

For more information, visit msaarabia.com

→ EXHIBITOR: **VIRIDIEN** STAND: **EXO5**

VIRIDIEN: LEADING SEISMIC IMAGING FOR THE FUTURE OF MINING

WITH OVER 90 YEARS OF pioneering geoscience history, Viridien, formerly CGG, has built an industry-leading reputation for tackling some of the world's most complex geological challenges. Our extensive experience, especially in utilizing our cutting-edge seismic imaging technologies, is crucial for de-risking and ensuring the responsible utilization of mineral resources.

THE FUTURE OF MINING **NEEDS SEISMIC**

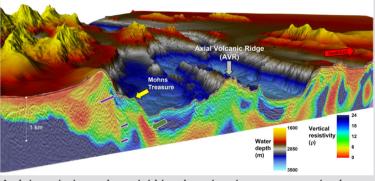
The lack of mineral deposit discoveries reinforces the fact that most easy-to-find deposits are exhausted. Future discoveries will be more complex and deeper. This

will not only require deeper drilling, increasing costs and extending schedules, it will also lead to a greater number of boreholes sub-optimally intersecting ore bodies.

The oil and gas industry optimizes drilling programs with seismic data, and we believe mining can do the same. Using seismic to define ore bodies and drilling to verify potential ensures the best use of formation evaluation resources.

THE IMPACT **OF ADVANCED SUBSURFACE IMAGING ON MINING EFFICIENCY**

While seismic data has been used by mining operators in the past, they haven't fully



An integrated massive sulphide mineral system assessment using advanced seismic imaging and electromagnetics (image courtesy of the Atlab Consortium).

leveraged the advanced algorithms developed by energy technology companies to define and image complex geologies.

The latest subsurface imaging techniques, such as full-waveform inversion (FWI), now offer the potential to define ore body geometries in greater detail, which is essential to optimizing borehole placement and achieving more efficient deposit assessment programs. When combined with multiphysics and other ancillary data, advanced seismic imaging also facilitates the ability to estimate rock properties through

advanced rock physics studies.

Viridien is partnering with major mining firms, demonstrating the value of this technology to the sector. In Australia, we used high-end FWI to help a mining giant redefine a copper orebody. This provided a clearer understanding of the main controlling fault along which the fluids carrying the copper had travelled. This meant the client could design a more efficient production plan and bring the resource to market more quickly.

For more information, visit viridiengroup.com/mining







→ EXHIBITOR: **SBM** STAND: **EX10**

SBM'S COMMITMENT TO INNOVATION AND SUSTAINABILITY IN SAUDI ARABIA'S MINING INDUSTRY

SHIBANG INDUSTRY & Technology Group Co., Ltd. (SBM) is honored to continue our participation in the Future Minerals Forum in 2025. As a key event in the global mining industry, the Future Minerals Forum offers us a valuable platform to showcase our latest technologies and innovative solutions, as well as to share our successful projects in Saudi Arabia.

SBM is the leading mining machinery manufacturer in China. It integrates R&D, production, sales, and services, enabling to offer one-stop scheme to those in aggregates production, mineral processing, solid waste recycling, green mine construction and industrial milling industries and offers comprehensive life-cycle services to customers, encompassing site surveys, material inspections, process design, core equipment supply, installation and construction,



accessory supply, technical upgrades, and EPCO schemes.

As a key country along the Belt and Road Initiative, Saudi Arabia boasts abundant mineral resources and significant potential for mining development. The mining sector in Saudi Arabia not only holds a vital position on the global stage but also plays a crucial role in driving economic diversification and sustainable development.

Additionally, Saudi Arabia is one of SBM's important markets. Over the past 30 years, SBM has delivered high-quality services to hundreds of Saudi clients, successfully establishing long-term partnerships. These collaborations have not only advanced modernization and technological innovation within Saudi Arabia's mining industry but have also laid a strong foundation for SBM's growth in the region. We look forward to further deepening our cooperation with Saudi Arabia in the future, working together to foster innovation and promote sustainable development in the mining industry.

For more information, visit sbmchina.com

→ EXHIBITOR: **SHANDONG XINHAI MINING TECHNOLOGY & EQUIPMENT INC** STAND: **EX49**

MINING CONTRACTING YOU CAN BE CONFIDENT IN

SHANDONG XINHAI MINING Technology & Equipment Inc. is an international mine engineering general contracting service provider focusing on 'Mine EPCM+O Service', integrating mine engineering, complete equipment manufacturing and procurement, mine construction and commissioning, mine construction management, mine operation management, and industry resource integration.

As one of the first group of mining equipment enterprises in China, Xinhai Mining Equipment has over time become bigger and stronger.

Under the leadership of Mr. Zhang Yunlong and a professional management team, Xinhai's business scope has spread worldwide.



Shandong Xinhai Mining Technology & Equipment Inc.

To date, Xinhai has served nearly 2,000 mines and completed more than 500 mine EPCM+0 projects, involving more than 70 types of ores.

You can get a sense of Xinhai's speed from our general contracting (EPCM+O) 2 million TPA Lithium project in Zimbabwe, which reached the standard and production within just one year, with a total of 170 million pieces shipped intact.

Reflecting its commitment to its people, Xinhai has created an employee-friendly office and rest area, based around the classic Chinese garden design, and has endeavored to design the concentrator so that it is as harmonious as possible, both with people and with nature.

You can trust Xinhai and its optimal solutions for all your mine contracting requirements.

For more information, visit xinhaimining.com





→ EXHIBITOR: CMS CEPCOR STAND: EX16

KEEP CRUSHING: QUALITY REPLACEMENT PARTS, **DELIVERED QUICKLY TO** MINIMIZE DOWNTIME

CMS CEPCOR®, PARTNER TO the global crushing industry since 1960, is the leading aftermarket manufacturer and supplier of crusher spare parts and wear liners.

With Europe's largest stock inventory of crusher parts, and the ability to make parts to order in the UK, CMS Cepcor can quickly despatch orders to fulfil urgent demand. As an OEM manufacturing partner, all CMS Cepcor components are designed and manufactured in consideration of original part specifications, ensuring high performance whilst offering valuable cost and time savings.

Following years of investment in their state-of-the-art CNC manufacturing facilities in the UK, CMS Cepcor hold preferred supplier status and contracted supply to major aggregate producers and approved supplier status for major global mining companies. Offering premium manganese and alloy crusher liners, and unrivalled support for 'classic' legacy brands, CMS Cepcor® replacement crusher parts have full traceability. CMS Cepcor have an ISO9001:2015 certified quality system to provide the reassurance clients expect.

CMS Cepcor are focussed on the production and supply of

replacement parts for crushers and the service to fit them. This means no distractions or conflicts of interest in offering new equipment options.

CMS Cepcor's commitment to excellence has recently earned it a prestigious King's Award for Enterprise, International Trade, 2024. Following the Queen's Award in 2012 and 2019, this underscores CMS Cepcor's long term consistency in engineering excellence, product quality, and high levels of customer service.

BRANDS SUPPORTED INCLUDE:

Allis-Chalmers, Barmac®,



Cedarapids®, Extec, FLSmidth®, Goodwin Barsby, Hazemag®, Keestrack®, Kleeman®, Krupp®, Kue-Ken, Lokomo, McCloskey®, Metso®, Nordberg®, Osborn, Parker, Pegson, Sandvik®, Svedala, Symons, Telsmith®, Terex®, Tesab and more. All CMS Cepcor® crusher parts are manufactured and warranted by CMS Cepcor® For the avoidance of doubt, it is not implied that our branded parts originate from the OEM.

For more information, visit cmscepcor.com

→ EXHIBITOR: **AGINCO** STAND: **EX42**

AGINCO: DRIVING INNOVATION AND SUSTAINABILITY IN SAUDI ARABIA'S MINING SECTOR

AS SAUDI ARABIA TRANSFORMS into a global minerals hub under Vision 2030, Aginco proudly supports this evolution by delivering cutting-edge solutions, forming lasting partnerships, and advancing sustainability in the mining industry. Since 1985, Aginco has been a trusted provider of mining equipment, starting with Mahd Ad Dahab and continuing with all Ma'aden's mines, and other private mines.

Aginco's portfolio features globally renowned brands, including Boart Longyear, pioneers in diamond bit technology. Boart Longyear's innovative chemical bonding method secures diamonds to the bit matrix, extending the lifespan of bits by up to 2.5 times compared to traditional methods, ensuring greater performance and reduced operational costs. Additionally, Normet offers state-of-the-art underground utility vehicles, including shotcrete and charging equipment, while Element provides durable slurry pump and crusher spare parts to minimize wear and maintenance needs.

Aginco's strength lies in its ability to adapt to large-scale projects by providing tailored solutions. For instance, in ongoing exploration projects across the Kingdom, we supply advanced drilling equipment to help clients overcome the challenges of operating in remote areas. Moreover, our Jeddah warehouse, strategically positioned near the region's busiest seaport and in close proximity to the mine sites and exploration areas of the Arabian Shield in western Saudi



Arabia, ensures swift delivery of essential supplies. This minimizes operational downtime, enhances efficiency, and supports the seamless functioning of mining operations.

ADVANCING GREEN TECHNOLOGY IN MINING

Sustainability is at the core of Aginco's mission, aligning closely with Vision 2030's emphasis on responsible resource management. Our

partnership with Normet highlights this commitment through the promotion of Battery Electric Vehicle (BEV) systems, designed to eliminate harmful emissions, reduce energy consumption, and improve underground air quality. Featuring Smart Drive Technology with regenerative braking, BEV systems not only lower a mine's carbon footprint but also enhance efficiency and safety in underground operations.

COLLABORATION AND GROWTH

As the industry attracts global players, Aginco fosters partnerships between local and international companies, ensuring mutual growth. Through Reliant Mining, our service partner, we deliver integral mining services tailored to diverse client needs.

Visit Aginco at the Future Minerals Forum to explore our solutions and join us in shaping a sustainable future for mining.

For more information, visit aginco.com.sa







→ EXHIBITOR: MASSAR BUSINESS SOLUTIONS STAND: EX15

BEHIND THE BOOM: HOW MASSAR BUSINESS SOLUTIONS POWERS THE STRATEGIC GROWTH OF MINING IN KSA

MINERALS ARE THE LIFEBLOOD of modern society, fuelling everything from green technology to the AI revolution. With growing global demand for critical minerals like copper and zinc, nations like Saudi Arabia (KSA) are emerging as strategic suppliers, offering vast untapped resources.

Steven Little, Founder and CEO of Massar Business Solutions, recognises the transformative role mining plays in advancing industries and building partnerships between supplier countries and international investors.

Massar Business Solutions was founded to navigate the complexities of KSA's thriving construction and mining sec-



tors. Initially focused on market entry, the company now delivers end-to-end support, helping global businesses establish operations, secure mining concessions, and align with national authorities like Ma'aden. "Mining is a long-term, strategic industry," Little explains. "Its gradual prospecting process

contrasts with the rapid pace of construction, but it holds significant potential, especially with KSA's government prioritising critical resources."

The company's three-step approach involves streamlining licensing, regulatory compliance, and operational setup, partnering with international

engineering firms to ensure robust support. These efforts align with Saudi Arabia's push for modernisation, which includes digitised regulatory processes and a focus on due diligence to attract legitimate businesses.

Massar's work exemplifies the importance of minerals in shaping a sustainable future. Their recent involvement in a copper mining project included constructing secure on-site facilities, a testament to KSA's commitment to providing a stable business environment. Additionally, by addressing the demand for skilled international talent, Massar fosters investment partnerships that drive innovation in green technologies and Al-powered solutions.

In a rapidly evolving world, the contributions of companies like Massar are pivotal. By enabling businesses to thrive in KSA, they're not just supporting an industry—they're powering the future of sustainable, technology-driven economies.

For more information, visit massaraa.com

→ EXHIBITOR: **SADIM ALMAJD** STAND: **EX40**

DELIVERING MINING INVESTMENT PARTNERSHIPS IN SUPPLIER COUNTRIES

AT SADIM ALMAJD, WE PRIDE ourselves on establishing mining investment partnerships that drive sustainable development and growth in supplier countries. With a proven track record of success, we combine state-of-the-art machinery, expert teams, and a commitment to quality to create impactful, mutually beneficial collaborations.

One of our most significant competitive advantages is our advanced fleet of machinery. We possess an extensive range of cutting-edge equipment designed to handle large-scale production demands while maintaining superior quality standards. This ensures that our partners benefit from efficient operations, optimised resource extraction, and minimal down-

www.futuremineralsforum.com



time. With our machinery's capability to deliver high productivity levels, we help unlock the full potential of mining projects, ensuring a strong return on investment.

Behind our technological capabilities is a team of skilled

professionals dedicated to excellence. Our team's expertise spans engineering, logistics, and operational management, enabling us to adapt to the unique challenges of each supplier country. By working closely with local stakeholders,

we ensure that our partnerships align with their economic and environmental priorities. We also invest in training programs to empower local talent, fostering skill development and contributing to long-term community growth.

Our approach focuses on quality at every stage. We understand the importance of delivering consistent, high-quality outputs to meet the expectations of global markets. This reliability strengthens trust with our partners and ensures a sustainable supply chain that benefits all parties involved.

Through our innovative technology, experienced team, and commitment to quality, we redefine mining investment partnerships in supplier countries. By combining high production efficiency with sustainable practices, we aim to build strong, lasting relationships that deliver value for both our company and the communities we serve.

► For more information, visit sadimalmajd.com





→ EXHIBITOR: **STRYDE** STAND: **EX22**

THE ONLY VIABLE **SOLUTION FOR GEOPHYSICAL IMAGING AT DEPTH**

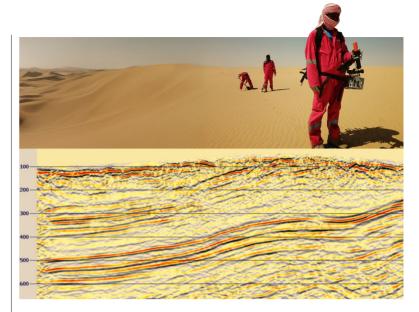
THE REFLECTION SEISMIC method is transforming mineral exploration by delivering unmatched insights into subsurface geology and structures. Acting like an "ultrasound" for the Earth, this technique produces high-resolution images of faults, lithological contacts, and even ore bodies at depth by introducing energy into the ground and capturing its echoes using seismic receiver devices known as nodes.

As shallow exploration targets become increasingly depleted, the ability to image at depth has become critical. Traditional geophysical methods like magnetics, gravity, and electrical surveys fall short in resolution at depth, and passive seismic methods lack the precision needed for detailed imaging. This is where STRYDE stands out, offering the

most cost-effective and viable nodes and imaging solution for reflection seismic in mineral exploration.

Reflection seismic is unique in its ability to retain clarity and resolution as depth increases. Unlike other methods that quickly lose effectiveness, seismic consistently delivers detailed insights into structures and formations beyond 2000 meters. This capability is vital for identifying deep-seated targets, mapping structures, and extending the productive life of mineral resources. Yet, traditional reflection seismic surveys' high cost and logistical challenges have historically limited their adoption of reflection seismic in mineral exploration processes.

STRYDE has revolutionized seismic acquisition with its lightweight, portable, and cost-ef-



fective seismic nodal imaging solution, making high-resolution seismic data accessible to the mining sector. By drastically reducing environmental impact, logistics, and costs, STRYDE enables rapid deployment and data collection in even the most challenging environments. Its high-density 2D and 3D seismic surveys provide unparalleled resolution, offering actionable insights that other methods simply cannot match.

With shallow resources becoming scarcer and passive seismic failing to deliver the

depth resolution required for modern exploration, STRYDE is the only solution capable of bridging this gap at an affordable price point. By integrating seamlessly with existing exploration tools, STRYDE expands the utility of datasets like magnetics and gravity while optimizing drilling budgets.

In a world where imaging at depth is critical for future resource development, STRYDE is leading the way.

For more information, visit strydefurther.com

→ EXHIBITOR: PRD RIGS STAND: EX35

PRD RIGS: 50 YEARS OF DRILLING EXCELLENCE

FOR 50 YEARS, PRD RIGS HAS been a global leader in the design and manufacture of drilling rigs. Founded in 1972, we have consistently evolved, leveraging decades of experience to deliver a comprehensive range of high-performance drilling solutions.

PRD Rigs offers a versatile lineup of drilling rigs tailored to meet the demands of various industries. From water well drilling to surface exploration, mining, geotechnical investigations, solar projects, cathodic protection, and customized solutions, the company ensures its rigs are designed to deliver optimal performance. Each rig is engineered to meet mining standards and norms, reflecting



PRD's commitment to quality, safety, and reliability.

Quality and innovation are the cornerstones of our success. Our team of over 500 skilled professionals drives continuous improvement through dedicated R&D and

a state-of-the-art design and development center. This commitment to innovation ensures we provide our customers with the most advanced and cost-effective drilling rigs available. By integrating advanced engineering techniques

and modern technologies, PRD ensures its machinery remains at the forefront of the industry.

With a global footprint spanning 70 countries and over 2500 rigs exported worldwide, PRD Rigs has earned a reputation for excellence. Our extensive network provides unparalleled customer support, with overseas branches strategically located across Africa and a robust network of dealerships spanning five continents. This ensures our customers have access to expert service and support whenever and wherever they need it.

PRD Rigs is actively contributing to the "Vision 2030" in Saudi Arabia by delivering drilling solutions and thereby supports Kingdom's journey toward becoming a global leader in energy and mining.

For more information, visit prdrigs.com







→ EXHIBITOR: AUSTRIAN PAVILION STAND: EX46

AUSTRIAN INNOVATION FOR A SUSTAINABLE FUTURE IN MINING AND RAW MATERIALS

ustria's reputation as a global leader in sustainability, advanced technology, and innovative industrial solutions is well-reflected in its contributions to the mining and minerals sector. At the upcoming Future Minerals Forum, the Austrian Pavilion, organized by Advantage Austria, will showcase six groundbreaking companies that exemplify the nation's expertise in sustainable resource management, environmental stewardship, and cutting-edge industrial processes.

The Austrian Pavilion represents the convergence of industry leaders committed to advancing raw materials innovation, enhancing sustainability, and shaping the future of mining and energy. Below are the participating companies and their transformative contributions:

PARTICIPATING

COMPANIES AND global sustainability standards, pyrolysis. With strong industry 化价数等 مرحبابكم Willkommen KACST

THEIR PIONEERING **CONTRIBUTIONS**

EIT RawMaterials GmbH As Europe's largest raw materials knowledge and innovation network, EIT RawMaterials empowers the transition to a circular economy. By leading the European Raw Materials Alliance (ERMA), they focus on securing sustainable supply chains through innovation and entrepreneurship. With projects valued at over €25 billion, EIT RawMaterials drives transformative initiatives across the raw materials value chain.

FINDECO GmbH

Revolutionizing sustainable mining, FINDECO's proprietary Responsible Mining by Directional Drilling (RMDD) technology minimizes environmental impact by over 35%. This innovative approach accelerates project approvals, aligns mining practices with

and ensures a seamless transition towards renewable energy and e-mobility.

Green Tech Mining and Services LLC

A joint venture between Oman Mining Company and Austriabased BPG Group, Green Tech Mining leads in eco-friendly mine tailings remediation and critical metals recovery. Certified by Eco Label Austria, their projects prioritize sustainable water management, pollution prevention, and climate resilience while adhering to the UN Sustainable Development Goals (SDGs).

Montanuniversität Leoben

A renowned academic institution specializing in raw materials processing and the circular economy, Montanuniversität Leoben excels in cutting-edge research. Notable achievements include pioneering hydrogen production via hydrocarbon

partnerships, the university bridges the gap between academia and innovation, driving sustainable solutions in the raw materials sector.

Neuson Hydrotec GmbH

Specialists in hydraulic technology, Neuson Hydrotec develops advanced systems for processing industrial by-products like steel slag. Their solutions transform waste into valuable secondary raw materials, supporting sustainable resource efficiency. With over 40 years of expertise, Neuson Hydrotec is the goto partner for customized hydraulic machinery.

Emerald Horizon

Pioneering clean energy solutions, Emerald Horizon introduces compact Accelerator Driven Energy Source (ADES) modules powered by thorium. These systems deliver 25 MW(th) of emission-free energy and are ideal for energy-intensive projects like NEOM, desalination plants, and hospitals. With applications tailored to reduce environmental risks, Emerald Horizon positions Saudi Arabia as a global leader in CO2-free energy.

AUSTRIA: A GLOBAL PARTNER FOR A **SUSTAINABLE FUTURE**

The Austrian Pavilion at the Future Minerals Forum reflects Austria's dedication to advancing sustainability and innovation across the minerals and mining sectors. Through a combination of cutting-edge technologies, academic expertise, and industry partnerships, Austrian companies are driving global progress toward sustainable resource management.

The featured companies demonstrate Austria's ability to lead in addressing critical challenges, from resource recovery and responsible mining to energy innovation and circular economy practices. Their contributions resonate strongly with the Forum's vision of building a sustainable and inclusive future for the mining and minerals industry.

For more information, visit advantageaustria.org/sa





→ EXHIBITOR: **BECKER MINING SYSTEMS** STAND: **OE06**

BECKER MINING SYSTEMS: EMPOWERING GLOBAL MINING INFRASTRUCTURE

BECKER MINING SYSTEMS. headquartered in Saarbrücken, Germany, has been a trusted partner in the mining industry since 1964. As a family-owned company, Becker has grown to become the only global supplier of integrated energy, automation, communication. transportation, and infrastructure solutions for mining operations. With over 1,500 employees and subsidiaries in 13 countries, Becker serves leading mining companies worldwide.

Innovation lies at the heart of Becker's mission to enhance safety, productivity, and sustainability in mining. Its technologies are designed to meet the highest standards, including those required for explosive atmospheres. The company's solutions range from advanced energy distribution systems and automation platforms to comprehensive communication



networks that enable seamless operations underground. Becker's mechanical segment, including transport systems and support structures, further ensures efficiency and safety even in the most challenging environments.

At the Riyadh Mining Expo, Becker Mining Systems will

showcase its cutting-edge Proximity Detection System (PDS4.0), the BRS4.0 belt rip detection system, LTE amplifiers, and advanced gas monitoring systems from the smartcom and smartdetection ranges. Additionally, visitors can explore the SCADA software solution smartflow, which delivers real-time data insights for improved decision-making and operational efficiency. A special highlight at the stand will be the Monorail Simulator with virtual reality (VR) capabilities, allowing attendees to experience the operation of Becker's transport solutions firsthand.

Becker is proud to collaborate with its partners Rema Tip Top, protecfire, and Jakob Mining Vehicles at the Expo. Together, they present a range of innovative solutions, including conveyor belt systems, advanced fire suppression technologies, and electric mining vehicles. This collective effort underscores their shared commitment to driving a safer, more efficient, and sustainable future for the mining industry.

For more information, visit becker-mining.com

→ EXHIBITOR: WEIR MOTION METRICS STAND: EX21

WEIR'S MOTION METRICS[™] AI: SHAPING THE FUTURE OF MINING

THE MINING INDUSTRY IS undergoing a transformative shift, powered by artificial intelligence (AI). Once slow to adopt advanced technologies, mining operations now leverage AI to tackle critical challenges like safety, downtime, productivity, and sustainability. With MOTION METRICS™, Weir is leading this revolution, delivering cutting-edge AI and machine learning solutions to mines worldwide.

AI-powered systems like ShovelMetrics[™] and LoaderMetrics[™] enhance mine safety by monitoring key wear parts, such as bucket teeth, lip shrouds, and wing shrouds. By detecting missing or worn ground engagement tools (GET) in real time, these systems help mines anticipate change-outs and prevent dangerous crusher jams, minimizing risks to personnel and ensuring smoother operations. This proactive approach reduces costly unplanned downtime by alerting operators and operations staff quickly, enabling critical decisions informed by up-to-the-minute data. Early

detection of potential issues allows operators to take preventive action, maintaining continuous material flow and minimizing operational interruptions.

Al's impact extends beyond safety - it drives productivity and efficiency. By analyzing every scoop of material, the MOTION METRICS™ systems provide insights that optimize material handling, reduce bottlenecks, and improve mine-to-mill performance. The result is significant cost savings and increased operational output. At the same time, Al supports sustainability efforts by improving energy efficiency and delivering data from remote mining infrastructure, helping mines reduce their environmental footprint while increasing productivity awareness across the pit.



The integration of Al into mining is no longer just an innovation; it is a competitive necessity. With the MOTION MET-RICS™ ecosystem of Al-driven solutions, Weir demonstrates how technology can transform mining into a safer, more efficient, and sustainable practice. As the industry embraces this leap, Al's potential to drive meaningful change is truly limitless.

For more information, visit global.weir







→ EXHIBITOR: **PERIDOT STONE COMPANY** STAND: **EX48**

PERIDOT: THE FIRST PRECIOUS STONE FROM KSA'S MAKKAH AL-MUKARRAMAH REGION

PERIDOT STONE COMPANY IS the only company with a license to mine Peridot stone in Saudi Arabia.

A grey-green or brown orthorhombic gemstone, formed of silicate, magnesium and iron, Peridot is commonly found in basic igneous rocks. Ancient Egyptians mined Peridot on the island of Zabargad in the Red Sea and collected stones as part of the Pharaoh's treasury. They used them in ornaments and on the coffins of kings and nobles.

The stone is a member of a group of isomorphous silicate minerals including fayalite and forsterite, which contains varying proportions of magnesium, iron, manganese, and calcium. Its formation requires a very high degree of temperature and





pressure, such as exists tens of kilometres below the earth's crust. It rises to the earth's surface through volcanic activity and is also found in meteors and falling stars.

Peridot is extracted by digging the deposits left by volcanic activity. The gems are collected by hand after the leaching process. Then they are classified, cut and

polished smoothly. Each stone is formed and polished manually to produce various shapes and sizes which depend on the volume of each stone.

In the United States, China, Pakistan, Sri Lanka and now in Saudi Arabia, each country has its typical Peridot type. For example, American stones are smaller and have less purity, while Chinese

stones have less color concentration. Saudi stones are large in size, with good colour and purity. Additionally, they have symbolic importance, since they originate from close to the holy city of Makkah Al-Mukarramah.

Since the Peridot Stone Company is the only company to be licensed by the Ministry of Industry and Mineral Resources for Peridot stones in Saudi Arabia, it is working to make the best use of the opportunity. Many factors support this: the backing that the government is giving to the mineral sector; Vision 2030: limitation on quantities; the size, color and purity of Saudi stones compared to other geographies; and the location in the province near the holy city of Makkah AlMukarramah.

Peridot Stone Company already has good quantities of rough, cut and polished, and finished stones and is about to start its marketing campaign, confident that it has an excellent opportunity both inside Saudi Arabia and abroad.

→ EXHIBITOR: IMDEX STAND: EX26

EXCITED BY CHALLENGES. DRIVEN BY DATA. DELIVERING INNOVATION.

WITH 496 PATENTS, 261 trademarks and more than 600 collective years of geoscience knowledge, IMDEX are experts in mining and exploration and are committed to research and development to enable companies to find, define, and mine with speed and accuracy.

Our purpose as a leading mining-tech company is to efficiently unlock the earth's value.

Our tools and technologies and those of our partners including Krux Analytics and DataRock make mining and exploration more precise and sustainable, leveraging machine learning and AI to deliver verifiable data quickly and efficiently.

IMDEX integrated solutions operate in three broad pillars, with the combined results delivering benefits throughout the mining value chain.

Drilling Optimisation: Our



suite of products enhance drilling productivity while improving safety and the impact on the environment.

Rock knowledge sensors: Best-in-class sensors originate critical data on the four elements of rock knowledge location, grade, mineralogy, and texture.

Real-time data and analytics: Our cloud platform and market-leading geoscience and analytical software enrich data and enable rea-time decisions to be made further upstream.

IMDEX's advanced technology and geoscience expertise are continuously evolving, providing real-time insights into the

drilling process and deeper understanding of orebodies.

The productivity gains enabled for our customers are becoming increasingly valuable, particularly as orebodies are deeper and more complex, as the cost of drilling increases, and as the demand to address some of society's most urgent challenges intensifies.

There is an imperative for resource companies to replenish diminishing reserves and to deliver the critical minerals needed for the energy transition.

The challenge is to deliver the minerals and metals of tomorrow while adhering to strict ESG principles that ensure benefits not only for resource companies but the communities in which they operate.

IMDEX operates in all key mining regions of the world, forging strong alliances with our clients as we accept the challenge to solve unique problems for customers and reduce environmental and social impacts to shape a better global industry.

For more information, visit imdex.com



14-16 January 2025

King Abdulaziz International Conference Center, Riyadh, Saudi Arabia

ORGANISED BY

ENDORSED BY











FOUNDING PARTNERS













STRATEGIC PARTNERS





































PLATINUM SPONSORS

















够



























sminerals



LOGISTIC PARTNERS







MEDICAL PARTNER



GOLD SPONSORS

























































INSIGHT PARTNER









● 紫星矿业 ZIJIN MINING

ROUNDTABLE HOSTS























ASSOCIATE PARTNERS











BARTER STANDS

SPEAKER LOUNGE SPONSOR





GLOBAL CONNECT SPONSOR







LEAD COUNTRY PARTNERS























HOSPITALITY PARTNERS























