



3-6 February 2020 | Cape Town, South Africa

Mining Indaba Presents:

2020 Conference Programme

2020

Mining Indaba 2020 Agenda

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Monday 3rd February

MAIN STAGE

08.50	Welcome Address: Mark Shashoua, CEO, Hyve Group Plc
09.00	Opening Remarks Mpho Makwana, Chair of the Advisory Board, Mining Indaba
09.05	Ministerial Address Hon. Gwede Mantashe, Minister of Mineral Resources & Energy, Republic of South Africa
09.55	The Brand of Mining: Reconnecting the Fundamentals of the Mining Industry with Next Generation Values <ul style="list-style-type: none"> ○ Sustainability of operations ○ Decarbonisation of the supply chain ○ Industry response to climate change ○ Realigning mining’s image problem with its role in global electrification ○ Mining materials as the cornerstone of the energy transition <p><i>Opening Keynote:</i> Mark Cutifani, CEO, AngloAmerican</p>
10.35	Corporation Presentation Mark Cutifani, CEO & Nolitha Fakude, Chair of Management Board, SA – Anglo American
10.55	Networking Break
11.20	Corporate Presentation Bold Bataar, Chief Executive, Energy and Minerals, Rio Tinto
11.40	Corporate Presentation AngloGold Ashanti
12.00	DRC Focus Examining the DRC: The rise of cobalt and where next for the mining code and mining under the new administration? <ul style="list-style-type: none"> ○ Examining the government’s policy and their current view of the mining sector ○ How does the mining sector see this policy developing further? ○ Where can bridges be built in policy and long-term operational growth? ○ The role of cobalt end-users in supply chain transparency ○ Do African battery metals producers have to be concerned about the United States new Minerals Security Act to begin reducing the United States’ dependence on foreign minerals? ○ Positioning DRC in a positive investment light <p><i>Moderator:</i> Colin Hamilton, Managing Director - Commodities Research, BMO Capital Markets</p> <p><i>Speaker:</i> Senior Management Executive - World Bank</p>
12.40	Corporate Presentation Deshnee Naidoo, CEO Zinc, Vedanta Resources
13.00	Networking Lunch
14.00	Keynote Panel: Fireside Chat with 3 Ministers Departments of Energy & Mining, Trade and Investment and Science & Technology. This session will discuss the way each department is placed to work together on driving sustainable socio-economic development of the country through the mining and energy sectors. Themes: <ul style="list-style-type: none"> ● Achieving President Ramaphosa’s 10 Value Principles for Miners ● African Continental Free Trade Agreement: What are the implications for the Energy and Mining sectors?

<p>15.00</p>	<p>Metals Focus</p> <p>Increasing copper production to boost Africa’s stake in the vital global battery market.</p> <p>In May 2019, Sarah Maryssael, Tesla’s global supply manager for battery metals, told a closed-door Washington gathering of miners, regulators and lawmakers that the automaker sees a shortage of key EV minerals coming in the near future, including copper.</p> <ul style="list-style-type: none"> ○ DRC: Kamo-a-Kakula project - 1.2 million MT in 2018 – Ivanhoe Mines & Zijin Mining Group + CITIC Metal Africa Investments ○ Zambia: 870,000 MT in 2018 - Barrick Gold’s Lumwana, First Quantum Minerals’ Kansanshi, Mopani Copper Mines (majority owned by Glencore) and Konkola Copper Mines, (subsidiary of Vedanta Resources) – 4 mines represent 80% of the country’s yearly copper production ○ World Bank – smart mining <p><i>Moderator:</i> Steven Fox, CEO, Veracity Worldwide</p> <p><i>Speakers:</i> Fortune Mojapelo, CEO, Bushveld Minerals Ltd John Startin, Senior Managing Director, Evercore Riccardo Puliti, Global Director, Energy and Extractive Industries and Regional Director, Africa, World Bank</p>
<p>16.00</p>	<p>Panel: Investor Focus</p> <p>Winning back the millennial generation: How should mining companies position themselves to attract millennial investors?</p> <ul style="list-style-type: none"> ○ What do millennial investors want and how much money will they have to invest in the next 10 years? ○ Examining the importance of purpose and sustainable companies ○ How can the mining sector position itself to be seen as a key part of the green energy revolution, thereby attracting millennial investors? <p><i>Moderator:</i> Charles Vivian, Director, Tavistock</p> <p><i>Speakers:</i> George Chevely, Portfolio Manager, Investec Asset Management Tom Butler, CEO, ICMM Mpumi Zikalala, MD Managed Operations, De Beers Group Cynthia Carroll, Former CEO, Anglo American; Non-Executive Director, BP</p>
<p>16.40</p>	<p>Panel: Investor Focus</p> <p>Driving West Africa’s growth story: How can the region continue to grow its gold production while being attractive for other commodities?</p> <ul style="list-style-type: none"> ○ How can West Africa position itself to attract more investment into commodities aside from gold? ○ At the same time, how can West Africa continue to improve its investment environment to grow gold production? ○ Assessing investor interest: Where is attractive for those looking to invest capital? <p><i>Speakers:</i> Laurent Charbonnier, Global Head, Metals & Mining, HSBC Jeff Quartermaine, MD & CEO, Perseus Mining Tawanda Madondo, Senior Coverage Banker, Natural Resources, Absa CIB Samuel Priddy, Director, PW Mining</p>
<p>17.20</p>	<p>Panel: Future Focus</p> <p>Tackling the youth challenge: How can the mining sector be an engine for development across Africa?</p>

	<ul style="list-style-type: none"> ○ Bridging the gap: How can the mining sector support training and jobs so it's perceived in a positive light by young people? ○ Tackling mining's inherent PR problem via youth engagement ○ Case studies of youth engagement policies: What has worked, what hasn't and why? <p><i>Moderator:</i> Dr. Simon Handelsman, International Minerals Development Engineer & Advisor; Adjunct Professor, University of British Columbia</p> <p><i>Speakers:</i> Deshnee Naidoo, CEO, Vedanta Zinc International Olebogeng Sentsho, CEO, Simba Mgododi Fund Simone Niven, Group Corporate Relations Executive, Rio Tinto</p>
18.00	Close of Day One

INVESTMENT BATTLEFIELD

14.00	Opening Remarks <i>Battery & Energy Minerals – Early Stage Exploration</i>
14.05	Company 1
14.10	Feedback Judging Panel <i>Panellists:</i> Jonathan Cordero, Head of Corporate Development, Eurasian Resource Group - Africa Erez Ichilov, Managing Director, Traxys Vera Ivanova, Director, AMED Senior Representative, RCF
14.20	Company 2
14.25	Feedback Judging Panel <i>Panellists:</i> Jonathan Cordero, Head of Corporate Development, Eurasian Resource Group - Africa Erez Ichilov, Managing Director, Traxys Vera Ivanova, Director, AMED Senior Representative, RCF
14.35	Company 3
14.40	Feedback Judging Panel <i>Panellists:</i> Jonathan Cordero, Head of Corporate Development, Eurasian Resource Group - Africa Erez Ichilov, Managing Director, Traxys Vera Ivanova, Director, AMED Senior Representative, RCF
14.50	Company 4
14.55	Feedback Judging Panel <i>Panellists:</i> Jonathan Cordero, Head of Corporate Development, Eurasian Resource Group - Africa Erez Ichilov, Managing Director, Traxys Vera Ivanova, Director, AMED

	Senior Representative, RCF
15.10	Announcement of the winner
15.15	Networking break
	<i>Battery & Energy Minerals – Advanced Exploration/Development</i>
15.25	Company 5
15.30	Feedback Judging Panel
15.40	Company 6
15.45	Feedback Judging Panel <i>Panellists:</i> Jonathan Cordero, Head of Corporate Development, Eurasian Resource Group - Africa Johan Bester, Project Manager, Thebe Investment Corporation Fred White, Associate Director, Medea Capital Partners Senior Representative, The Noble Group
15.55	Company 7
16.00	Feedback Judging Panel <i>Panellists:</i> Jonathan Cordero, Head of Corporate Development, Eurasian Resource Group - Africa Johan Bester, Project Manager, Thebe Investment Corporation Fred White, Associate Director, Medea Capital Partners Senior Representative, The Noble Group
16.10	Company 8
16.15	Feedback Judging Panel <i>Panellists:</i> Jonathan Cordero, Head of Corporate Development, Eurasian Resource Group - Africa Johan Bester, Project Manager, Thebe Investment Corporation Fred White, Associate Director, Medea Capital Partners Senior Representative, The Noble Group

JUNIOR MINING FORUM

10.55	Opening Remarks Simon Ford, Portfolio Director, Mining Indaba
11.00	Analyst Presentation: Buoyant Gold Prices – Are We Reaching a Long-Run Bull Market? <ul style="list-style-type: none"> ○ Where is demand for gold coming from and what will influence prices in 2020? ○ Assessing the impact of trade wars, Brexit & uncertainties in Europe on Gold Prices ○ ETFs, ETCs, Gold Stocks & Physical gold – where are investors putting their money? <i>Speaker:</i> James Bell, Vice President, Global Mining Research, RBC Capital Markets
10.50	Gold Exploration African Gold Corp
11.00	Len Koff, Chief Geologist, Ironridge Resources
11.10	West Africa Capital Venture/ Sodium
11.20	Gold Company
11.30	JOGMEC Seminar
12.30	ASX Seminar
12.45	Networking Lunch

13.30	<p>Panel: Increasing Gold Exploration Activity in West Africa – What Make Junior Gold Projects an Attractive Investment?</p> <ul style="list-style-type: none"> ○ Providing an overview of the hottest projects in Ghana, Cote d’Ivoire & Burkina Faso ○ Spotlight Ghana: What is the country’s strategy in attracting investments? What makes Ghanaian projects stand out? ○ Competing for capital: Where is funding for West African projects coming from? ○ What can juniors do to lift their profile to investors? ○ How can governments further incentivise investments in gold exploration projects? <p><i>Moderator:</i> Charles Gibson, Director of Mining, Edison Investment Research</p> <p><i>Speakers:</i> Cathy Cox, Group Executive Exploration Africa and Europe, Newmont Goldcorp David Awram, Senior Executive Vice President & Director, Sandstorm Gold Peter Ruxton, Co-Founder & Chairmain, Tembo Capital Senior Representative, Resolute Mining Senior Representative, Golden Star</p>
14.20	<p>Gold – Exploration *chaired & moderated by Analyst, HSBC Ingrid Hibbard, CEO, Pelangio Exploration</p>
14.30	<p>Paul Roberts, Managing Director, Predictive Discovery</p>
14.40	<p>Caigen Wang, Managing Director, Tietto Minerals</p>
14.50	<p>Greg Isenor, President & CEO, Roscan Gold</p>
15.00	<p>Networking Break</p>
15.15	<p>Gold – Development & Production *chaired & moderated by Analyst, Berenberg <i>Corporate Presentation:</i> Jeff Quartermaine, Managing Director & CEO, Perseus Mining</p>
15.25	<p>Q&A / Corporate Presentation</p>
15.35	<p>Q&A / Corporate Presentation</p>
15.45	<p>Panel: Precious Metals in South Africa – What Can Be Done to Kickstart Exploration Activity?</p> <ul style="list-style-type: none"> ○ Analysing gold exploration activity – What are the most promising junior gold stories in South Africa? ○ What explains the decrease in exploration activity in South Africa? What does it mean for the investment community? ○ Government policies & Mining Codes – What needs to change to unlock investments in junior companies? ○ Assessing investors’ sentiment towards Brownfield exploration projects: How can juniors position themselves to secure funding? ○ West Africa vs South Africa – what can the two regions learn from each other? <p><i>Moderator:</i> Charles Gibson, Director of Mining, Edison Investment Research</p> <p><i>Speakers:</i> David Twist, Founding Partner, AMED Fund Shoab Vayej, Executive Director, Afena Capital Senior Representative, Sprott Senior Representative, Goldfields</p>
16.40	<p>Gold – Development & Production *chaired & moderated by Analyst, Macquarie <i>Q&A / Corporate Presentation:</i> Steve Curtis, CEO, Caledonia Mining</p>
16.50	<p><i>Q&A / Corporate Presentation:</i> Archie Koimtsidis, Managing Director & CEO, Cardinal Resources</p>
17.00	<p>Closing Remarks <i>Speaker:</i> Caroline Werner, Investor Relations Manager, Mining Indaba</p>

SPECIAL CONTENT

11.35	JOGMEC Seminar
14.00	<p>IGF Sustainability Roundtables - Mapping out the future: Resource taxation, Community Development and the Next-generation Mines in Africa</p> <p>Innovation and new technology in mining is bringing a host of new opportunities and challenges. This session will draw on recent work by IGF and partners to explore two sets of issues in particular: skills and the future of work, and implications for government revenues.</p> <p><i>Moderators:</i> Aaron Cosbey, Senior Associate, IGF Alexandra Redhead, Technical Advisor on BEPS, IGF</p> <p>Speakers: Aidan Davy, COO, ICMM Jörgen Sandström, Head of Mining & Metals Industry, World Economic Forum Logan Wort, Executive Secretary, African Tax Administration Forum</p>

Tuesday 4th February

MAIN STAGE

08.50	<p>Opening Remarks Tom Quinn, Head of Content, Mining Indaba</p> <p>Welcome Address Noluthando Primrose Gosa, Member of the Advisory Board, Mining Indaba</p>
09.00	Welcome from Mayor of Cape Town
09.05	Opening Keynote
09.25	<p>Investment Keynote</p> <p>Investing in Africa's mining sector as the economic heart of regional & international development</p> <ul style="list-style-type: none"> ○ Empowerment through investment: the role of EXIM in Africa's economic engine ○ The impact of the African Continental Free Trade Agreement (AfCFTA) on pan-African investment in natural resources & supply chains ○ What is next for EXIM in Africa's extractive industries and supply chains? Seizing opportunities and building on access to working capital programs <p><i>Keynote Speaker:</i> Kimberly A. Reed, President & Chairman, Export-Import Bank of the United States (EXIM Bank)</p>
9.45	<p>Keynote Debate on Africa's mining sector</p> <p>Africa's mining sector as an engine for development: What's next?</p> <ul style="list-style-type: none"> ○ What is next for Africa's mining sector: How will sector heavyweights shape it in years to come? ○ What does this mean for investors, other mining companies and government? ○ What should major companies 2 core strategies be? And how can they focus on this together?

	<p><i>Moderator:</i> S. Vijay Iyer, VP & COO, Multilateral Investment Guarantee Agency (MIGA)</p> <p><i>Speakers:</i> Mcebisi Jonas, Former Deputy Finance Minister of the Government of South Africa Nolitha Fakude, Chair of Management Board SA, Anglo American Tom Attenborough, Head of International Primary Markets, London Stock Exchange Group Caroline Donally, Managing Director, Denham Capital Bold Bataar, Chief Executive, Energy and Minerals, Rio Tinto</p>
10.15	Corporate Presentation: DRD Gold
10.35	Corporate Presentation: B2Gold
10.55	<p>Panel: Women in Mining Special Focus Finance and Trading of Precious and Rare Earth Metals</p>
11.30	Thought leadership session: DuPont Sustainable Solutions
12.00	<p>Continental focus</p> <p>The Resource Nationalism challenge: How can governments increasingly find compromises that engender growth while allowing business to make significant profits?</p> <ul style="list-style-type: none"> ○ Examples of success: Why have these worked and how can they be replicated? ○ Examining existing developmental challenges from Tanzania to the DRC: What's next? ○ Case study: update on Sierra Leone's latest policies ○ Building a culture of trust: How can this be established in the long term? How can policy certainty become engrained to attract long-term investment even as governments change? <p><i>Moderator:</i> Dr. Saleem Ali, Blue and Gold Distinguished Professor of Energy and the Environment, University of Delaware</p>
12.40	Corporate Presentation: Neal Froneman, CEO, Sibanye-Stillwater
13.00	Networking Lunch
14.00	<p>Panel: Gold Commodity Focus – in partnership with World Gold Council</p> <p>Uncovering current global risks and the potential price drivers of gold- What are the potential impacts of:</p> <ul style="list-style-type: none"> ○ Trade tensions between the US and its trading partners ○ Weakening economies and lower global growth ○ Rising geopolitical tensions ○ Structural changes in gold demand <p><i>Speakers:</i> Sicelo Ntuli, COO - Africa, AngloGold Ashanti Neal Froneman, CEO, Sibanye-Stillwater John Reade, Chief Market Strategist and Head of Research, World Gold Council Sebastien de Montessus, CEO, Endeavour Mining Michael Barton, Portfolio Manager, Orion Resource Partners</p>
15.00	Corporate Presentation: Craig Dean, Chairman & CEO, Gerald Group
15.20	<p>PGMs Focus</p> <p>Cleaner mining, cleaner planet: Platinum Group Metals and the opportunity of the Energy Transition</p> <ul style="list-style-type: none"> ○ New growth market opportunities in the expanding hydrogen fuel cell sector ○ H₂ / fuel cell technology downstream market applications (from mobility, industrial, heat and power)

	<i>Speaker:</i> Chris Griffith, CEO, Anglo American Platinum
15.50	Corporate Presentation: J. Paul Rollinson, President & CEO, Kinross Gold
16.10	<p>Economy Panel: Mining in South Africa and the YES Initiative</p> <p>President Cyril Ramaphosa has given a mandate to the Youth Employment Service (YES) initiative which was launched in 2018 in an effort to create 1 million new 12-month job opportunities for young people.</p> <ul style="list-style-type: none"> ○ Through YES, businesses will create a 12-month paid position for a youth between the ages of 18 and 35 with a minimum stipend of R3 500. ○ Total of over 250 companies in South Africa have joined YES ○ What can businesses and leaders do to support strategies like YES to tackle the critical youth unemployment issue in South Africa?
16.40	<p>Panel: Investor Focus</p> <p>Preparing for the fourth industrial revolution: How can African mining position itself for growth and avoid the shocks of potential automation?</p> <p>How should labour and industry work together to ensure Africa’s mining sector doesn’t fall behind, while looking after employees?</p> <ul style="list-style-type: none"> ○ The big debate: Should the country import highly skilled workers for this if each one of them creates another four jobs? ○ Establishing a way forward: What are the next steps for labour and industry? ○ The African Union (AU) Agenda 2063 is a blueprint to support the continent’s accelerated growth, tech transformation, and to drive the benefits of a digitised economy. ○ The AU agenda is aligned to South Africa’s own National Development Plan (NDP) 2030 vision of transforming the country into an inclusive and innovative digital society. <p><i>Speakers:</i> Deshnee Naidoo, CEO, Vedanta Zinc International Tshokolo Nchocho, CEO, Industrial Development Corporation (IDC) Anik Nichaud, Group Director – Corporate Relations, Anglo American Sabine Dall’Omo, CEO, Siemens South Africa Ltd Sheila Khama, Lead Mining Specialist, Energy and Extractives Global Practice, World Bank</p>
17.40	Close of Day 2

INVESTMENT BATTLEFIELD

9.55	Opening Remarks
	Precious Metals – Early-stage Exploration
10.00	Company 1
10.05	<p>Feedback Judging Panel</p> <p><i>Panellists:</i> Peter Major, Head of Mining, Mergence Corporate Solutions Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Andrew Cheatle, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team</p>

10.15	Company 2
10.20	Feedback Judging Panel <i>Panellists:</i> Peter Major, Head of Mining, Mergence Corporate Solutions Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Andrew Cheatle, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team
10.30	Company 3
10.35	Feedback Judging Panel <i>Panellists:</i> Peter Major, Head of Mining, Mergence Corporate Solutions Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Andrew Cheatle, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team
10.45	Company 4
10.50	Feedback Judging Panel <i>Panellists:</i> Peter Major, Head of Mining, Mergence Corporate Solutions Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Andrew Cheatle, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team
11.05	Announcement of the Winner
11.10	Networking Break
	<i>Precious Metals – Advanced Exploration/ Development</i>
11.25	Company 5
11.30	Feedback Judging Panel <i>Panellists:</i> Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Patrick Chidley, Partner, 3PPM LP Andrew Cheatle, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team
11.40	Company 6
11.45	Feedback Judging Panel <i>Panellists:</i> Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Patrick Chidley, Partner, 3PPM LP Andrew Cheatle, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team
11.55	Company 7
12.05	Feedback Judging Panel <i>Panellists:</i> Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Patrick Chidley, Partner, 3PPM LP Andrew Cheatle, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team
12.15	Company 8
12.20	Feedback Judging Panel

	<p><i>Panellists:</i> Ilja Graulich, Head of IR Tharisa Minerals and Founder, Madini Minerals Patrick Chidley, Partner, 3PPM LP Andrew Cheate, Vice President, New Ventures, Allied Gold Corp Senior Representative, Resolute Corporate Development Team</p>
12.35	Announcement of the winner
12.40	Networking Lunch
	<i>Bulk & Base Metals – Early-Stage Exploration</i>
13.30	Company 1
13.35	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke’s Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
13.45	Company 2
13.50	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke’s Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
14.00	Company 3
14.05	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke’s Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
14.15	Company 4
14.20	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke’s Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
14.35	Announcement of the winner
14.40	Networking Break
	<i>Bulk & Base Metals – Advanced Exploration/ Development</i>
14.55	Company 5
15.00	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke’s Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
15.10	Company 6

15.15	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke's Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
15.25	Company 7
15.30	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke's Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
15.40	Company 8
15.45	Feedback Judging Panel <i>Panellists:</i> Pim Kalisvaart, Portfolio Manager, Hawke's Point Capital Michael Anderson, Director, Taurus Fund Management Senior Representative, Aluwani Mining Fund Senior Representative, Hemera Capital Management
16.00	Announcement of the winner

MINING 2050

9.20	Opening Remarks Clive Govender, CEO, CGC Consulting
9.30	Panel: Mining Innovation <ul style="list-style-type: none"> ○ Top-down innovation: Currently only 25% of the top 40 mining companies have CTOs or CIOs. How important are these positions to foster a culture of innovation in the workplace? ○ Investing in the future: What is blocking greater investment in mining technology? ○ Minerals 4.0: Will diversifying portfolios future proof companies against wider technological advancements e.g. battery storage & EV minerals? <p><i>Moderator:</i> Andrew Swart, Global Mining and Metals Leader, Deloitte</p> <p><i>Speakers:</i> Pieter Van Greunen, Gamsberg SBU Director, Vedanta Zinc International Representative from Anglo American Representative from Ivanhoe Mines</p>
10.30	Panel: Green & Sustainable Technology <ul style="list-style-type: none"> ○ Championing zero-emission mines: How can companies commit to more sustainable mining? ○ Carbon accounting framework in order to create a differentiated market for these mines. ○ According to the World Bank by 2050 low carbon technologies will demand a higher percentage of the world's mineral production. How can mining companies meet this demand?

	<ul style="list-style-type: none"> ○ Global governance system to avoid supply crunch ○ Power supply and the growing role of IPPs: How can the mining industry reduce power consumption to save costs and make the sector more sustainable? Is South Africa leading the charge? ○ Renewable power of the mine report <p><i>Moderator:</i> Greg Radford, Director, IGF</p> <p><i>Speakers:</i> Daniele la Porta, Senior Mining Specialist, World Bank Group Perrine Toledano, Head: Extractives Industries, Columbia Centre on Sustainable Investment Jeroen Westrik, Global Head of Basic Materials, ABN Amro Mark Dawe, MD & Country Manager Namibia, B2Gold</p>
11.30	Dupont presentation
11.50	<p>Blockchain for Sustainability</p> <p>Exploring the benefits of tracking resource movement across the value chain and the effect this will have on ethically minded customers (Read more about De Beers Tracr initiative.</p> <p>Jim Duffy, CEO, Tracr Michillay Brown, Industry Transformation, Tracr</p>
12.10	<p>Seequent Presentation</p> <p>Dion Blair, Global Channel & Sales Director, Seequent</p>
12.30	Networking Lunch
13.30	<p>Exploration Technology</p> <p><i>Moderator:</i> Dr Ian Haddon, MD, The MSA Group</p> <p><i>Speakers:</i> Holly Bridgwater, Industry Lead, Unearthed Solutions Murray Hill, MD & CEO, Marenica Energy Simon Bolster, MD, Portable PBB Markus Schaefer, GM Exploration, Vedanta Zinc International & Vedanta Exploration Africa</p>
14.30	<p>Panel: A Smarter Supply Chain</p> <p>In this session we will look at innovation within community engagement to drive greater inclusive procurement and shared value:</p> <p>Mining Economic Growth:</p> <ul style="list-style-type: none"> ○ How can we use the spending power of mines to make a difference across communities? ○ What role does technology have to play in ensuring minimal disruption and shared prosperity for the community? <p>Digitised Supply Chain & Technology Enablers:</p> <ul style="list-style-type: none"> ○ From digital contracts, automated distribution centres and robotics, we look at the socio-economic impact of supply chains in a digitised environment ○ How can communities and mining companies leverage technology to actively reduce unemployment? <p><i>Moderator:</i> Karen James, CEO, Business for Development</p> <p><i>Speakers:</i> Larisha Naidoo, MD, Anglo Zimele Dr Nicholas Garrett, CEO, RCS Global</p>

	Steve Potter, Principal Mining Specialist, IFC Representative from Ivanhoe Mines
15.30	<p>Reimagining Mining: What does the Future of Work look like to you?</p> <ul style="list-style-type: none"> ○ What are the 'skills of the future'? What will become a miner's fundamental skillset in 2050? ○ What role does academia play in driving the Fourth Industrial Revolution throughout the industry? ○ Mining digital talent: how can companies unlock greater recruitment opportunities and access digitally skilled workers? <p><i>Moderator:</i> Clive Govender, CEO & Founder, CGC Consulting</p> <p><i>Speakers:</i> Prof Francis Petersen, Rector and Vice Chancellor, University of the Free State Prof Sibongile Muthwa, Vice Chancellor, Nelson Mandela University Denise Johnson, Resource Industries Group President, Caterpillar Jörgen Sandström, Head of Mining and Metals Industry, World Economic Forum Nolitha Fakude, Chairperson – Management Board in South Africa, Anglo American</p>
16.30	Learnings from Day 1
16.45	Close of Day 1

SUSTAINABLE DEVELOPMENT DAY

7.00	Opening Canada Session: New Tools for Building Effective and Durable Community Relationship
9.10	Jelizaveta Matvejeva, Government Relations & Content Manager, Mining Indaba <i>Chief Moderator:</i> Jean Chawapiwa, Country Director, Mining Dialogues 360
9.20	Opening Keynote Address
9.35	<p>Interview: Redefining Responsible Mine Leadership - What can the leaders of today and tomorrow learn from the Mining and Faith Reflections Initiative?</p> <ul style="list-style-type: none"> ○ Mining and Faith Reflections Initiative (MFRI): What are the real outcomes, action points and the next steps forward? ○ Considering a Bigger Picture - Climate change & growing inequality: How is the sector responding and how is mine leadership evolving to address these issues? ○ The relationship between Mining and Communities: What are some of the biggest lessons learned and how should the leaders of today approach this matter to enable collaboration, trust and long-term value creation? ○ Managing Expectations: How to achieve a balance between shareholder and stakeholder needs & expectations and define a financially viable strategy for a socially and environmentally responsible business? <p><i>Moderator:</i> Tom Butler, CEO, International Council on Mining and Metals (ICMM)</p> <p><i>Speakers:</i> Rt Revd Johannes Seoka, Bishop, The Anglican Church of Southern Africa (AMI) Rt Reverend David Urquhart, Bishop of Birmingham and Convenor of the Lords Spiritual, The Church of England Mark Cutifani, Chief Executive, Anglo American</p>

10.35	<p>Panel: Rethinking Mine Closure & Rehabilitation</p> <ul style="list-style-type: none"> ○ Developing an inclusive closure stagey: What are the key social and environmental aspects of mine closure and how to balance those with the technical and financial requirements? ○ Does and Don'ts in planning and best practices: What are the strategies that have not worked as well in the past and how can we learn from the experience of others? ○ The roles and expectations of governments and local communities: What has led to the redesign of closure conditions and what is the role of local community groups in ensuring good environmental outcomes? ○ Regulations & Disclosure: What are the gaps in existing regulatory frameworks and what are the recommendations for companies? <p><i>Moderator:</i> Edgar Odari, Chairperson, Hakimadini Network (AMI)</p> <p><i>Speakers:</i> Joanne Heyes, Global Practice Lead – Closure, BHP Siphokazi Mthathi, Executive Director, OXFAM South Africa Dешnee Naidoo, CEO, Vedanta Zinc International Boubacar Bocoum, Lead Mining Specialist, World Bank Thembi Siweya, Deputy Minister, Department: Planning, Monitoring & Evaluation, Presidency, South Africa</p>
11.25	<p>Networking Break</p>
11.50	<p>Panel: Newmont Goldcorp: Sustainable Value Creation in Mining Communities</p> <p><i>Speakers:</i> Hon. Kwaku Asoma Chremeh, Minister, Lands and Natural Resources, Republic of Ghana Kojo Busia, Senior Mineral Sector Governance Advisor, United Nations Economic Commission for Africa Aidan Davy, COO, International Council on Mining and Metals Nicholas Cotts, VP: Sustainability & External Relations, Newmont Goldcorp</p>
12.30	<p>Community Keynote & Case Study: Building Community Voices in the Mining Sector & the Key Outtakes from the Alternative Mining Indaba</p> <p><i>Speaker:</i> Blessing Hungwe, Artisanal Scale Miner, Guruve, Zimbabwe (AMI)</p>
13.00	<p>Networking Lunch</p>
14.00	<p>Spotlight on Innovation: Exploring the Best Innovative Solutions & Initiatives for Sustainable Mining</p> <p>Spotlight Presentations:</p> <ul style="list-style-type: none"> • Revolutionising your Social License to Operate through Smart Stakeholder Management Speaker: Remi Piet, Senior Director - Energy, Mining & Infrastructure, Americas Market Intelligence • Mandela Mining Precinct: Supporting local innovation and addressing Health & Safety Speaker: Gary Lane, Director, SIMINE • CERA: The new-generation approach to the certification of raw materials Speaker: Dr. Andreas Hucke, Project Director, CERA, Head of Raw Material Sustainability, DMT Group <p><i>Moderator:</i> Nkiruka Chiemelu, Manager: Africa, United Nations Global Compact</p>

	<p><i>Spotlight Presentations:</i></p> <ul style="list-style-type: none"> ○ Revolutionising your Social License to Operate through Smart Stakeholder Management <i>Speaker:</i> Remi Piet, Senior Director - Energy, Mining & Infrastructure, Americas Market Intelligence ○ Mandela Mining Precinct: Supporting local innovation and addressing Health & Safety <i>Speaker:</i> Gary Lane, Director, SIMINE ○ CERA: The new-generation approach to the certification of raw materials <i>Speaker:</i> Dr. Andreas Hucke, Project Director, CERA, Head of Raw Material Sustainability, DMT Group
15.00	<p>Panel: Harmonising Extraction and Environment to Change Industry's Social Image and Ecological Footprint</p> <ul style="list-style-type: none"> ○ A Call-To-Action: Reviewing statistical indicators and realising the real environmental footprint to trigger the change in industry's mentality and approach to the environment ○ How, When and Why should financial institutions support sustainable mining and why is it critical to ensure that environmental considerations form part of an early decision-making process? ○ Performance Expectations: What should the industry commit to in terms of raising socio-environmental performance standards, and what are the tools and initiatives for improving such performance and limiting risks? <p><i>Moderator:</i> Claude Kabemba, Executive Director, Southern Africa Resource Watch (AMI)</p> <p><i>Speakers:</i> Charles Sebukeera, Regional Coordinator for Africa, Science Division, UN Environment Namrata Thapar, Global Head of Mining, IFC Patricia Makhesha, Managing Director, Ivanhoe Mines Alexandra Guaqueta, Global Practice Leader External Affairs & Communities, Rio Tinto</p>
16.00	<p>Panel: Achieving a 'Zero Harm' approach - Changing the Fundamentals to put People and Health & Safety First</p> <ul style="list-style-type: none"> ○ Introduction: ILO Safety and Health in Mining Convention No. 176 – Defining roles and responsibilities and examining outcomes achieved to date ○ Discussing the alarming rate of incidents in the global mining context and the need to fundamentally change our approach to mine leadership and put people first ○ Redefining mine site culture: What should be done to ensure maximum compliance, enhance disclosure and improve transparency around H&S reporting? ○ Health and Safety beyond the mine: How do we evaluate impacts on livelihoods and extend 'Zero Harm' approach to Artisanal Miners and communities? ○ Forecasting & Risk Prevention in the context of the 4th Industrial Revolution: How can technologies help us to identify critical controls of the fatal risks and accidents? <p><i>Moderator:</i> Glen Mpufane, Director, Mining and DGOJP, IndustriALL</p> <p><i>Speakers:</i> Irvin Jim, General Secretary, National Union of Metalworkers of South Africa (NUMSA) Themba Mkhwanazi, CEO, Kumba Iron Ore Joni Musabayana, Deputy Director, Pretoria, International Labour Organization Francois Hardy, Senior Regional Vice President, Newmont Goldcorp Clyde Malinson, Founder & Director, Virtual Energy & Power</p>
17.00	<p>Closing Remarks</p> <p><i>Speaker:</i></p>

	Jean Chawapiwa, Country Director, Mining Dialogues 360
17.05	Close of Day

BATTERY METALS DAY

08.55	<p>Opening Remarks Battery Metals Day <i>Speaker:</i> Caroline Werner, Investor Relations Manager, Mining Indaba</p>
09.00	<p>Analyst Presentation: Lithium-ion battery technologies – which technologies will power the future?</p> <ul style="list-style-type: none"> ○ Discussing the various lithium-ion battery end use markets and the types of battery chemistries they utilise ○ Discussing the advantages and drawbacks of different lithium-ion technologies ○ Exploring latest solutions to enable higher energy density, faster charging & better safety ○ Electric vehicles: ○ Exploring likely future directions for cathode technologies ○ Exploring whether solid state & lithium sulphur batteries offer an alternative to lithium-ion batteries <p><i>Speaker:</i> Jack Bedder, Director, Roskill</p>
9.20	<p>Panel: What strategy have car manufacturers & battery makers in place to increase the supply of battery materials?</p> <ul style="list-style-type: none"> ○ How much material is demanded by the battery – and automotive industry? ○ How do the demand & supply for battery materials compare against forecasts? ○ Which commodities are end-users struggling to acquire? ○ What are the major challenges in acquiring raw materials from the African continent? ○ How can the demand-supply gap of raw materials be bridged collaboratively? <p><i>Moderator:</i> Jorgan Sandstrom, Head of Mining & Metals, World Economic Forum</p> <p><i>Speakers:</i> Peter Schuhmacher, President, Catalyst Division, BASF Corporation Willem Middelkoop, Founder, Commodity Discovery Forum Anton Berlin, Marketing Director, Norilsk Nickel Senior Representative, Blackrock Senior Representative, Ford</p>
10.05	Networking Break
10:15	<p>Lithium Harry Greaves, Executive Director, Prospect Resources</p>
10:25	Chris Evans, Managing Director, Mali Lithium
10:45	<p>Analyst Presentation: How Much Copper will be Required to Build Efficient EV Infrastructure Systems?</p> <ul style="list-style-type: none"> ○ Assessing the characteristics of an efficient EV infrastructure system ○ Forecasting demand & supply for copper for building efficient EVs & EV infrastructure systems ○ Analysing the major drivers of copper outside of the EV & battery market ○ How will copper prices develop in 2020?

	<ul style="list-style-type: none"> ○ What are the characteristics of African copper projects receiving funding? <p>Colin Hamilton, Managing Director Commodities Research, BMO Capital Markets</p>
11.05	<p>Copper Corporate Presentation <i>Speaker:</i> Pierre Leveille, President & CEO, Deep-South Resources</p>
11.15	<p>Corporate Presentation <i>Speaker:</i> Nick von Schirnding, Executive Chairman, Arc Minerals</p>
11.25	<p>Copper Q&A / Corporate Presentation <i>Speaker:</i> Orion</p>
11.35	<p>Copper Q&A / Corporate Presentation <i>Speaker:</i> Khoemacau</p>
11.50	<p>Panel: Democratic Republic of Congo - What Practices Can End-users & Investors Put into Place to Support Sustainable Mining Practices?</p> <ul style="list-style-type: none"> ○ Assessing the country's new mining code – what has changed to increase transparency and investment? ○ What are investors' sentiment towards materials mined in the DRC? ○ How much influence do end-users have on changing mining practices and ensuring responsible mining activities? ○ How can blockchain increase transparency in the sector? <p><i>Moderator:</i> Jos Simpson, CEO, Tavistock</p> <p><i>Speakers:</i> Laurent Charbonnier, Global Head of Metals & Mining, HSBC Remi Piet, Senior Director, Infrastructure, Energy & Natural Resources, American Market Intelligence Senior Representative, Microsoft Senior Representative, Ivanhoe</p>
12.35	Networking Lunch
13.30	Panel: Benchmark Minerals
14.15	Corporate Presentation: Fortune Mjoapelo, CEO, Bushveld Minerals
14.25	Interview: Red T & Bushveld Minerals
14.35	<p>Analyst Presentation / Interview: What Are the Latest Cathode Innovations for Li-Ion Batteries?</p> <ul style="list-style-type: none"> ○ Providing an overview of different cathodes ○ Understanding the advantages & drawbacks of Nickel, Cobalt & Manganese as cathode materials ○ What factors determine the choice of cathode materials? ○ What strategy are cathode producers pursuing to secure supply of raw materials? ○ Forecasting demand for Nickel, Cobalt, Manganese & Graphite <p><i>Speaker:</i> Lara Smith, Managing Director, Core Consultants</p>
14.55	<p>Graphite & Nickel Graphite Q&A / Corporate Presentation: Marc-Antonie Audet, CEO, Sama Resources</p>
15:05	Nickel Q&A / Corporate Presentation: Kalahari Key
15:15	<p>Cobalt Cobalt Presentation Q&A / Corporate Presentation: Ugo Landry-Tolszczuk, President, SRG Graphite</p>
15:25	<p>Panel: Malawi – What Are the Country's Plans to Increase the Export of Battery Materials?</p> <ul style="list-style-type: none"> ○ Which battery materials can be found in Malawi? ○ How much of global REE supply comes from Malawi? ○ What are Malawi's plans to get more junior projects into production? ○ What strategy is the government pursuing to increase investments in mining?

	<p><i>Speakers:</i> Hon. Bintoni Kutsaira M.P, Minister of Natural Resources, Energy and Mining, Malawi Senior Representative, Mkango Senior Representative, Sovereign Metals</p>
16.05	<p>Panel: Examining China's Electrification Strategy & its Subsidies in African Mining</p> <ul style="list-style-type: none"> ○ How much of Africa's battery materials supply has been secured by Chinese companies? ○ How does China's "Sustainable Mining Footprint" look like in Africa? ○ Assessing the influence of trade wars & geopolitical tensions on China's resource acquisition ○ How will China's Belt & Road plan impact on Africa's mining industry? ○ What are Chinese investors looking for in a battery metals supplier? <p><i>Moderator:</i> Feizhou Zheng, CEO, VSA Capital Shanghai</p> <p><i>Speakers:</i> Kobus van der Wath, Managing Director, Beijing Axis Senior Representative, CADFund Senior Representative, Havelock Mining Senior Representative, CMOC</p>
16.50	Closing Remarks

SPECIAL CONTENT

14.00	<p>African Development Bank: Optimizing Local Content & Value Addition in Africa's Mining Sector: Opportunities, Challenges & Gaps</p> <p>An interactive discussion addressing some of the most significant developmental issues in Africa and featuring special projects launched by the African Development Bank.</p> <p><i>Moderator:</i> Cosmas Milton Ochieng, Director, African Natural Resources Centre</p>
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Wednesday 5th February

MAIN STAGE

9.10	<p>Opening Remarks Frans Msokoli Baleni, Member of the Advisory Board, Mining Indaba</p>
09.25	<p>CEO Keynote</p> <p>China's significant CITIC Metal investment and the Kamo-a-Kakula Project – "unquestionably the best copper development project in the world"</p> <p><i>Speaker:</i> Robert Friedland, CEO, Ivanhoe Mines</p> <p><i>Followed by interview on Chinese investment in African mining and impact on local economies with:</i></p> <p>Robert Friedland, CEO, Ivanhoe Mines Yufeng "Miles" Sun, President, CITIC Metal Group Limited and Co-Chairman, Ivanhoe Mines Dr. Patricia Makhesha – CEO, Platinum, Ivanhoe Mines</p>

10.45	Networking Break
11.15	<p>WGC Interview: Responsible Gold Mining Principles (RGMPs) & Sustainability</p> <p>The Responsible Gold Mining Principles (RGMPs) are a new framework that set out clear expectations for consumers, investors and the downstream gold supply chain as to what constitutes responsible gold mining.</p> <ul style="list-style-type: none"> ○ Development of the Responsible Gold Mining Principles – a single, coherent framework for the sector ○ Implementation and assurance - obtain external assurance from a third party, independent assurance provider. ○ What do the RGMPs mean for the industry, for sustainable practice, and for ESG investing?
12.00	<p>Artisanal Mining Focus</p> <p>Bringing artisanal mining into the open – the socio-economic and environmental debate In the Central African Republic, artisanal miners contribute approx. \$115 million to the economy each year, and in Uganda small-scale miners generate 20x more to GDP than those employed in farming, fishing & forestry.</p> <p>However, it still remains an unregulated and risky part of Africa’s mining sector with recent fatalities highlighted in the global media and a major cause for concern with large mining operators:</p> <ul style="list-style-type: none"> ○ How can established industry work collaboratively with artisanal miners to find a safe, productive and economically viable solution? ○ Which countries and companies are making progress in reducing fatalities and risk in artisanal mining? <p><i>Moderator:</i> Estelle Levin-Nally, Founder & CEO, Levin Sources</p> <p><i>Speakers:</i> Ferial Zerouki, SVP International Relations & Ethical Initiatives, De Beers Group Pamela Fierst-Walsh, Senior Advisor for Conflict Minerals & U.S. Lead for the Kimberley Process, U.S. Department of State Dr. Saleem Ali, Blue and Gold Distinguished Professor of Energy and the Environment, University of Delaware</p>
13.00	Networking Lunch
14.00	<p>Panel: Climate Change & Sustainability focus</p> <p>Climate change and its impacts represent a physical risk to mining operations and installations, and a broader societal risk to the communities and workforce on which mining projects rely.</p> <p>Adaptation within the mining sector is needed to address the impacts of climate change that are happening now, to increase resilience to future impacts, and to enable sustainable socio-economic development.</p> <p><i>What is the current status of - and how are mining companies responding to – growing risks including:</i></p> <ul style="list-style-type: none"> ○ Extreme weather patterns causing flood and storm damage to infrastructure ○ Transport disruption affecting supply chain reliability ○ GHGs from Scope 2 & 3 emissions and reduction strategies ○ Increased competition for climate-sensitive resources such as water and energy <p><i>Moderator:</i> Neil Hume, Natural Resources Editor, Financial Times</p> <p><i>Speakers:</i> Froydis Cameron, Group Head of International and Government Relations, Anglo American Mark Robinson, Executive Director, EITI International Secretariat</p>

	Simone Niven, Group Corporate Relations Executive, Rio Tinto Shirley Webber, Head of Coverage, Natural Resources, Absa CIB
14.50	Intersection of Industry & Academia focus <i>Panel:</i> Deepening the role of academic research to tackle the mining industry's key challenges of today <ul style="list-style-type: none"> ○ Can mining-related research more directly support the mining industry arrive at pragmatic solutions to the challenges of today, including automation, water security and access to cleaner energy? ○ What are the opportunities to strengthen coordination and collaboration across academic institutions around the world? ○ Can academia provide a pathway to increase the learnings from other industries in support of a more sustainable mining industry?
15.30	Networking Break
16.00	Corporate Presentation: Mxolisi Mgojo, CEO, Exxaro Resources
16.20	Corporate Presentation: John Welborn, MD & CEO, Resolute Mining
16.40	High-Value Mining Focus Spotlight on diamonds: How are miners and government going to cope with the growth of synthetics? Examining synthetic demand and projections: What impact will this have on country's economies? Is there a chance of big shocks? Assessing current plans to manage synthetic development, how could it be embraced? Environmental costs of synthetics vs mined diamonds: What are the facts? <i>Moderator:</i> Darias Jonker, Director, Africa, Eurasia Group <i>Speakers:</i> Bruce Cleaver, CEO, De Beers Des Kilalea, Resource Analyst, Cannacord Genuity
17.30	Close of Day

INVESTMENT BATTLEFIELD

9.55	Opening Remarks Investment Battlefield Day 3
	<i>Semi Final – Early-Stage Exploration *moderated by Sponsor</i>
10.00	Buk & Base Metals Early-Stage Explorer
10.05	Feedback Judging Panel <i>Panellists:</i> Caroline Donally, Managing Director, Denham Capital Jaqueline Murray, Partner, Resource Capital Fund Senior Representative, Argon Asset Manager David Twist, Founding Partner, AMED Fund
10.15	Battery Metals Early-Stage Explorer
10.20	Feedback Judging Panel <i>Panellists:</i> Caroline Donally, Managing Director, Denham Capital Jaqueline Murray, Partner, Resource Capital Fund Senior Representative, Argon Asset Manager David Twist, Founding Partner, AMED Fund

10.30	Precious Metals Early-Stage Explorer
10.35	Feedback Judging Panel <i>Panellists:</i> Caroline Donally, Managing Director, Denham Capital Jaqueline Murray, Partner, Resource Capital Fund Senior Representative, Argon Asset Manager David Twist, Founding Partner, AMED Fund
11.05	Announcement of the Two Winners
11.10	Networking Break
11.25	Semi Final – Advanced Exploration/ Development <i>*moderated by Sponsor</i> Bulk & Base Metals Advanced Explorer/Developer
11.30	Feedback Judging Panel <i>Panellists:</i> Caroline Donally, Managing Director, Denham Capital Willem Middelkoop, Founder, Commodity Discovery Fund Senior Representative, Standard Bank Senior Representative, Southern Charter
11.40	Battery Metals Advanced Explorer/Developer
11.50	Feedback Judging Panel <i>Panellists:</i> Caroline Donally, Managing Director, Denham Capital Willem Middelkoop, Founder, Commodity Discovery Fund Senior Representative, Standard Bank Senior Representative, Southern Charter
12.00	Precious Metals Advanced Explorer/Developer
12.05	Feedback Judging Panel Caroline Donally, Managing Director, Denham Capital Willem Middelkoop, Founder, Commodity Discovery Fund Senior Representative, Standard Bank Senior Representative, Southern Charter
12.30	Announcement of the 4 Finalists
12.35	Networking Lunch
14.00	Final <i>*moderated by Sponsor</i> Announcement of 4 Finalists
14.05	Winner Semi-final Early-Stage Exploration
14.10	Feedback Company 1 <i>Final Panellists:</i> George Cheveley, Portfolio Manager, Investec Asset Management Heidi Sternberg, Sector Specialist Mining, Public Investment Corporation Charl Malan, Portfolio Manager, Van Eck Julian Treger, Executive Director & CEO, Anglo Pacific
14.20	Winner Semi-final Early-Stage Exploration
14.25	Feedback Company 2 <i>Final Panellists:</i> George Cheveley, Portfolio Manager, Investec Asset Management Heidi Sternberg, Sector Specialist Mining, Public Investment Corporation Charl Malan, Portfolio Manager, Van Eck Julian Treger, Executive Director & CEO, Anglo Pacific

14.35	Winner Semi-Final Advanced Exploration/Development
14.40	Feedback Company 3 <i>Final Panellists:</i> George Cheveley, Portfolio Manager, Investec Asset Management Heidi Sternberg, Sector Specialist Mining, Public Investment Corporation Charl Malan, Portfolio Manager, Van Eck Julian Treger, Executive Director & CEO, Anglo Pacific
14.50	Winner Semi-Final Advanced Exploration/Development
15.00	Feedback Company 4 <i>Final Panellists:</i> George Cheveley, Portfolio Manager, Investec Asset Management Heidi Sternberg, Sector Specialist Mining, Public Investment Corporation Charl Malan, Portfolio Manager, Van Eck Julian Treger, Executive Director & CEO, Anglo Pacific
15.35	Announcement of the Winner

MINING 2050

9.20	Opening Remarks Clive Govender, CEO & Founder, CGC Consulting
9.30	Panel: Using Technology to Drive Greater Health & Safety Systems in Mines Representative from Newmont Goldcorp Representative from Seequent Representative from Mine Health & Safety Council
10.30	Presentation: Journey to the Digital Mine Digitalization is starting to play an important role in the mining industry. Several drivers are pushing investments in new technologies at all levels – from field operations and planning in the mine up to operations management at C-level. The presentation “The Journey to the Digital mine” will highlight few real-life examples of how digitalization optimizes the existing mines and its impact on the companies’ bottom line. Roland Ehrl, Global Head, Siemens Minerals Solution Business
10.50	Presentation: Cryptocurrency Anton Berlin, Marketing Director, Norilsk Nickel
11.10	Panel: Artificial Intelligence This session will explore how the industry can leverage data to tighten planning across the value chain, increase productivity and safety for miners, and reduce operational costs through the application of AI Patrick Murphy, President - Rock Drills & Technologies, Sandvik Wessel Oosthuizen, AI Leader, Deloitte Wilhelm Schultz, Director, Partners in Performance
12.10	Keynote Presentation: Digital Twinning How to utilise digital modelling to optimise process mapping and efficiency Denver Dreyer, Senior Vice President MM&M EMEA, Worley

12.30	Networking Lunch
13.30	<p>Startup Spotlight</p> <p>In partnership with Uearthed Solutions, 3 start-ups – along with their industry partners – showcase the hottest new technologies for the mining sector</p> <p><i>Facilitator:</i> Holly Bridgwater, Industry Lead, Uearthed Solutions</p> <p>South Africa Colliery Mine Turnaround A colliery, owned by a top tier mining company in South Africa implemented Fewzion during a MOS project run by an Australian consulting business. At the time the site experienced poor production results and poor safety records, there was also a lack of coordination of work and people. Since the implementation of Fewzion in 2014 the operation saw an immediate improvement in the coordination of work each shift. This resulted in an increase in production results by 15% in 12 months and 32% sustained growth and has delivered and estimated savings of \$80m per year.</p> <p>The operation now sees Fewzion as critical to their performance and is a champion for us in the African region, hosting teams that want to learn from their performance.</p> <p>Commit Works software have delivered massive production and safety improvements for some of the world’s largest mining companies. The easy-to-use, complete solution has helped large miners and small contractors to deliver 25 to 50 percent improvements in performance less than three months after implementation on site; and enabled many mines to sustain their results for over four years, through successive management teams and ownership.</p> <p><i>Speaker:</i> Jason Aucamp, Director – Operations & Projects (Africa), Commitworks</p> <p>Collaboration as a driver of successful digitisation and innovation There’s a barrage of new technologies and systems in the mining industry all with the promise of unrepresented value-add and functionality. Why then do so many operations struggle to extract even 50% of the value from most of these systems? AVA and Exxaro will unpack the successful turn-around strategy of their overburden fleet from the sudden loss of the mines major contractor to the on-boarding of a new contractor, while also developing an emerging contractor. They managed to do this while maintaining a safe operation and exceeding targets. This is the flexibility and focus of a collaborative team with accurate and transparent metrics matched by a digital platform.</p> <p><i>Speakers:</i> Jason van der Watt, Co-Founder, AVA Solutions Musa Mbasa, Manager Mining - Leeuwpan Colliery, Exxaro</p>
14.30	<p>Automation Hour</p> <ul style="list-style-type: none"> ○ Robotics ○ Operational Optimisation ○ Employment Opportunities <p><i>Moderator:</i> Clive Govender, CEO & Founder, CGC Consulting</p> <p><i>Speakers:</i> Denise Johnson, Resource Industries Group President, Caterpillar Ricus Grimbeek, President & CEO, Trevali Reserved for Rio Tinto</p>
15.30	<p>Presentation: Partners in Performance</p> <p>Value First... Today, Tomorrow and 2050</p>

	<i>Speaker:</i> Mark Evans, Principal, Partners in Performance
15.50	Session to be Confirmed
16.10	Presentation: Transnet A Connected Future: Effective logistics strategies from pit to port Understanding how the creation of digital ports and digital infrastructure will change logistics in the future, and examining the role Transnet will play Representative from Transnet
16.30	Learnings from Day 2 and Closing Remarks
16.45	End of Day 2

JUNIOR MINING FORUM

9.55	Opening Remarks: Mining Forum Day 3 <i>Speaker:</i> Caroline Werner, Investor Relations Manager, Mining Indaba
10.00	Q&A: How will the Mining Charter III Benefit the South African Junior Market? <i>Speaker:</i> Hon. Gwede Mantashe, Minister of Mineral Resources, South Africa
10.35	Corporate Presentation: Daniel Major, CEO, GoviEx
10.45	Corporate Presentation: Merlin Marr-Johnson, Executive VP, Global Atomic Corporation
10.55	Corporate Presentation: Murray Hill, Managing Director & CEO, Marenica Energy
11.05	Corporate Presentation: Ricus Grimbeek, President & CEO, Trevali
11.15	Corporate Presentation: Jason Brewer, Managing Director, Force Commodities
11:45	Panel: Can the South African PGMs Market be Turned Around? <ul style="list-style-type: none"> - Jewellery, Hydrogen Powered Cars & Mandela Coins - What drives demand for PGMs? - Platinum vs Palladium: which metal will perform better in 2020? - What can the government do to kickstart the South African PGMs market? - Analysing the impact of recent M&As mine closures, strikes & wages <i>Moderator:</i> Peter Major, Head of Mining, Mergence Corporate Solutions <i>Speakers:</i> Mdu Bhulose, Portfolio Manager Mining & Resources, Public Investment Corporation Arnold van Graan, Analyst – Mining, Nedbank CIB Chris Griffith, CEO, Anglo American Platinum Senior Representative, Investec Asset Management
12.15	<i>Speaker:</i> Caroline Werner, Investor Relations Manager, Mining Indaba

INTERGOVERNMENTAL SUMMIT

8.55	Welcome Remarks <i>Speaker:</i> Senior Representative, Mining Indaba
9:00	Opening Keynote Address
09:10	Keynote Interview: The unification of Energy & Minerals Governance in South Africa: Driving a 'just transition' and mapping out the future <ul style="list-style-type: none"> o What does the integration mean for operators and investors in the Energy & Mining sector? o What are the biggest common challenges to be resolved across the two sectors and is there a mapped-out strategy for the coming year? o Planning a "just transition": How is the inevitable shift away from coal is going to affect the South African economy, workers and communities?

	<ul style="list-style-type: none"> ○ How is the Mining Charter reflecting the need for integration and what are the long-terms goals? <p><i>Moderator:</i> Nola Kianza, President & CEO, Canadian Council on Africa</p> <p><i>Speakers:</i> Roger Baxter, CEO, Minerals Council South Africa Hon. Gwede Mantashe, Minister of Energy and Mineral Resources, Republic of South Africa</p>
09:50	<p>Spotlight Discussion: Navigating Mineral Taxation & Resource Nationalism across Africa: Resolving challenges and Rebalancing Public-Private relationships</p> <ul style="list-style-type: none"> ○ Designing effective mining tax systems: What are the guidelines and best practices effective in the African context and how to balance the generation of public benefits and provision of investment incentives? ○ Resolving challenges: Controversy, lack of transparency, institutional capacity and accurate economic data, how should governments cooperate to resolve these issues? ○ Evaluating resource nationalism trends across African jurisdictions: What to expect and how should international investors and companies prepare to mitigate risks? ○ What explains the ups and downs of Resource Nationalism in Africa, and what are the lessons to be learned beyond African borders? <p><i>Moderator:</i> Hoda Atia Moustafa, Head of the Africa Region, MIGA</p> <p><i>Speakers:</i> Hon. Jacob Jusu Saffa, Minister of Finance, Sierra Leone Hon Willy Kitobo Samsoni, Minister of Mines, Democratic Republic of the Congo Senior Representative, IGF</p>
10:25	<p>Ministerial Presentations and Q&A Block 1. Southern Africa</p> <p>Presentations: The latest legislative updates, emerging opportunities and ongoing development Q&A: Regional challenges and prospects for collaboration between the countries</p> <p><i>Moderator:</i> Karangizi, Director, African Legal Support Facility, African Development Bank</p> <p><i>Speakers:</i> Hon. Winston Chitando, Minister of Mines and Mining Development, Zimbabwe Hon. Lefoko Maxwell Moagi, Minister for Mineral Resources, Green Technology & Energy Security, Botswana Hon. Richard Musukwa, Minister of Mining, Zambia</p>
11:35	<p>Panel: Strategic management of ESG risks: The one and only route towards the long-term success in Africa</p> <ul style="list-style-type: none"> ○ How could strategic consideration of ESG performance parameters improve sustainability of the mining portfolios without compromising return goals, and even enhance risk-adjusted returns in the long term? ○ What are the key ESG parameters assessed by investors and the main drivers of improved ESG performance among mining companies? ○ What can be done to enhance the accuracy and availability of the ESG data and promote transparency and disclosure among mining companies? ○ What are the key obstacles to the successful implementation of ESG policies and how could businesses cooperate with governments to enhance ESG performance? <p><i>Moderator:</i> Emma Wade-Smith OBE, Her Majesty's Trade Commissioner for Africa, UK Department for International Trade</p>

	<p><i>Speakers:</i> Jeroen Westrik, Global Head of Basic Materials, ABN AMRO Christopher Sheldon, Practice Manager, Energy and Extractives Global Practice, World Bank William Scholes, Investment Director, Global Emerging Markets Equities, Aberdeen Standard Investments</p>
12:20	<p>Ministerial Presentations and Q&A Block 2. North & West Africa</p> <p><i>Speakers:</i> Hon Mohamed Abdel Vettah, Minister of Petroleum, Energy and Mines, Mauritania Hon Jean-Claude Kouassi, Minister of Mines and Geology, Cote d'Ivoire Hon Aissatou Sophie Gladima, Minister of Mines and Geology, Senegal</p>
13:10	<p>Networking Lunch</p>
13:45	<p>Ministerial Address: Democratic Republic of the Congo</p> <p><i>Speaker:</i> Hon Willy Kitobo Samsoni, Minister of Mines, Democratic Republic of the Congo</p>
14:00	<p>Panel: Public-Private Alliances for Responsible Sourcing of African Minerals</p> <ul style="list-style-type: none"> ○ Sourcing in conflict-affected and high-risk areas: OECD Framework and other practical tools for companies to better understand and mitigate supply chain risks? ○ Defining the role of Financial Institutions: Strategic client due diligence and other measures that need to be undertaken to enhance responsible supply chains ○ What is the scope for international cooperation on the Conflict Minerals front? ○ Building transparency along the supply chain to reduce financial risks and limit the number of social conflicts: What do producers, end users and national regulators need to have in place to achieve that? <p><i>Moderator:</i> Namrata Thapar, Global Head of Mining, IFC</p> <p><i>Speakers:</i> Tyler Gillard, Manager, Sector Projects, Responsible Business Conduct Unit, Investment Division, OECD Hon. Winston Chitando, Minister of Mines and Mining Development, Zimbabwe Jon Samuel, Group Head of Social Performance and Engagement, Anglo American</p>
14:50	<p>Ministerial Address: Saudi Arabia</p> <p><i>Speaker:</i> H.E Eng. Khalid S. Almudaifer, Vice Minister of Industry & Mineral Resources, The Kingdom of Saudi Arabia</p>
15:05	<p>Ministerial Presentations and Q&A Block 2. West Africa</p> <p><i>Moderator:</i> Hervé Lado, Country Manager: Guinea, Natural Resources Governance Institute <i>Moderator:</i> Nafi Chinery, West Africa Manager, Natural Resources Governance Institute</p> <p><i>Speakers:</i> Hon Kwaku Asomah-Cheremeh, Minister of Mines, Ghana Hon Gesler E. Murray, Minister of Mines and Energy, Liberia Hon Foday Rado Yokie, Minister of Mineral Resources, Sierra Leone Hon Abdoulaye Magassouba, Minister of Mines and Geology, Guinea Conakry</p>
16:30	<p>Canada-Africa Panel: Improving public sector capacity and governance by means of cooperation</p> <ul style="list-style-type: none"> ○ Addressing the need for stronger institutions: Closing capacity gaps and strengthening institutional partnerships

	<ul style="list-style-type: none"> ○ Trust and Inclusion: Increasing backward linkages from Mining Investment to promote development and build trust among local communities ○ Discussing visible outcomes achieved to date: Establishing transparent and consistent mining licensing system that considers the need to address environmental, social and gender dimensions <p><i>Opening Remarks:</i> Glenn Mason, Assistant Deputy Minister, Lands and Minerals Sector, Natural Resources Canada</p> <p>Moderator: Paula Caldwell, Director General, Pan Africa Bureau, Global Affairs Canada</p> <p><i>Speakers:</i> Hon. Samuel Urkato, Minister of Mines and Petroleum, Ethiopia Elaine Pura, Chief Executive Officer, CIRDI</p>
17:10	<p>Ministerial Presentations and Q&A Block 3. Central, North and East Africa</p> <p><i>Moderator:</i> Senior Representative, African Union</p> <p><i>Speakers:</i> Hon Francis Gatare, CEO, Rwanda Mining Petroleum and Gas Board Hon Gabriel Dodo Ndoke, Minister of Mines, Industry & Technological Development, Cameroon Hon Olamilekan Adegbite, Minister for Mines and Steel Development, Nigeria</p>
17:50	Close of Day

Thursday 6th February

GENERAL COUNSEL FORUM

08.30	Delegate Registration & Refreshments
9.00	Opening Remarks and Welcome from Conference Chairperson
9.10	Keynote Address
9.40	<p><i>Panel Discussion: Risk</i></p> <ul style="list-style-type: none"> ○ Legal, meet Tech. How can technology empower the legal function to drive efficiency, add value and ensure cross-company engagement with risk management from automation of 'at mine' contracts to data analytics to both deliver value and prove it? ○ Getting creative with compliance. Exploring practical solutions to building a culture of compliance through novel training, visual aids and positioning the legal function as trusted advisors who can systematically reduce the business's exposure to compliance risk rather than just control the damage of its manifestations. ○ Spreading the load. Looking at ways to ensure a collective approach to risk management and responsibility such as risk mapping, allocation of risk ownership and cross-departmental committees. <p><i>Panellists:</i> Aviona Mabaso, Group Legal Counsel, Bauba Resources Ria Sanz, Executive Vice President - General Counsel, Compliance and Company Secretary, AngloGold Ashanti</p>
10.25	Networking Break

11.00	<p>Panel Discussion: Growth</p> <ul style="list-style-type: none"> ○ IP matters. Discussing the role of the legal function in supporting and driving technology-based innovation in their businesses with a focus on delivering strategic IP advice and management. ○ Trusted adviser. How can a General Counsel add maximum value at early-stage M&A and expansion planning in Africa? Our panel will explore how to empower and guide their leadership to make bold steps into new markets whilst balancing risk and reward. ○ Reflection on the growing expectations that the board and investors are placing on the mining GC to effectively explain and manage African legal developments and increasing global regulation and sustainability goals. <p><i>Panellists:</i> Jacqueline Musiitwa, Chief Advisor, Corporate Relations (Africa and Ventures)</p>
11.50	<p>Panel Discussion: Sustainability</p> <ul style="list-style-type: none"> ○ Monopolising on and developing board and investor focus on ESG for business benefit ○ Exploring developments in renewable energy driving the sector towards achieving sustainability goals ○ Examining the role of the in-house function in managing and streamlining relationships with key suppliers to project your business’s sustainability commitments and impact beyond directly controlled operations ○ Building a sustainable role within the business. Elevating the GC from a risk manager to proactive strategic advisor for both business and personal sustainability. <p><i>Panellists:</i> Daniel Driscoll, Vice-President Legal & Compliance, Endeavour Mining Hermien Uys, Head of Legal, Vedanta Zinc International Jasmine Abrahams, Group Manager - Sustainability, Ivanhoe Mines Pieter Smit, Group Legal Manager, Ivanhoe Mines</p>
12.40	<p>Closing Remarks from the Conference Chairperson</p>
13.00	<p>Networking Reception</p>

YOUNG LEADERS PROGRAMME

09.00	<p>Opening Remarks: The Importance of Youth Participation in Mining</p> <p><i>Speakers:</i> Senior Representative, Mining Indaba Timothy Schultz, Director, Brunswick</p>
09.10	<p>Onstage Interview: Creating a Future for Mining in South Africa – Opportunities in Mining for Young People</p> <ul style="list-style-type: none"> ○ The future of the industry in SA & Africa: How the Government is making mining a “sunrise” industry again? ○ Update on the new mining law (MPRDA) ○ Making mining work for local communities and labour ○ The promise of innovation – what is government doing to encourage change but manage the externalities ○ What efforts being made to increase youth participation in the sector; what opportunities are there for the youth? ○ How can you see youths transforming the face of mining to ensure sustainable growth and development? ○ Considering South Africa’s economic challenges what demand is there for young people in the mining sector?

	<i>Speaker:</i> Timothy Schultz, Director, Brunswick
09.40	<p>This is Your Life – Learning From the Best – How Did They Do It? An onstage interview with a mining leader will focus on how they kick started their careers, when their opportunities came and how they got to be leading figures in Africa’s mining sector.</p> <p><i>Speakers:</i> Mpumi Zikalala, Managing Director, De Beers Group Managed Operations Hilary Joffe, Editor, Business Times</p>
10.00	Networking Break
10.15	<p>Discussing Diversity, Gender Dynamics and Combating Gender-Based Violence in Mining</p> <ul style="list-style-type: none"> ○ What are the risks and challenges for women in mining? ○ Breaking down sociocultural barriers constraining effective participation of women in mining ○ What progress has been made and what more needs to be done? ○ Consciously creating a culture that values women and diversity ○ Promoting mining as a career choice for women: What do companies need to do to retain female talent? ○ Tips for getting ahead in the industry, support networks and growing into a leadership role <p><i>Speakers:</i> Olebogeng Sentsho, CEO, Simba Mgodini Mining Incubation Fund (Pty) Ltd Hermien Botes, Head of Sustainability, Anglo American Di Munro, Partner, Brunswick</p>
11.00	<p>Finding pay dirt – A miner’s tale of starting a mine A charismatic multi-media presentation of one person’s journey to start a mine covering the:</p> <ul style="list-style-type: none"> ○ Business case ○ Geology ○ Engineering ○ Challenges and successes <p><i>Speaker:</i> Robert Friedland, CEO, Ivanhoe</p>
11.20	<p>Digitized Mining: The rise of the machines</p> <ul style="list-style-type: none"> ○ Disruptive forces that could transform the mining sector, what are they? How do we prepare for them? ○ How do we capitalise on them? ○ Emerging technologies and their impact across the value chain ○ Automation and digital mining - the difference and the promise ○ Skunkworks – research and development in mining ○ The next frontier: exploring space/underwater mining ○ Technology and the future of work: gender, safety and the skills needed <p><i>Speakers:</i> Jamie van Schoor, Chief Executive Operator, Dwyka Mining Services Pty Ltd Agesan Rajagopaul, Partner, McKinsey</p>
12.05	<p>Mining, Justice and Shared Value</p> <ul style="list-style-type: none"> ○ How can mines help achieve the UN’s Sustainable Development Goals ○ Shared values and the rise of ESG – are financial markets catching up to society? ○ How do you manage trade-offs: investors vs management vs employees vs public policy ○ Why some communities welcome and others resist mining? ○ How to prepare tomorrow’s mine leaders for the social and community dimensions of the mining industry ○ Mining as hero and villain of the green revolution ○ Urban mining and the circular economy <p><i>Speakers:</i></p>

	<p>Nicholas Veltman, Partner, Eversheds Sutherland Joseph Mathunjwa, Head of the Association, Mineworkers and Construction Union Hugh Brown, Photographer, The Cruellest Earth Richard Spoor, Activist and Human Rights attorney, Richard Spoor Inc. Attorneys</p>
12.50	<p>The future of Careers in Mining: Nurturing the Next Generation of Mining Industry Leaders</p> <ul style="list-style-type: none"> ○ What does the future of work in Mining look like; what skills, attitudes and values are required? ○ How can young people get into mining and what are the required skills? ○ How should companies partner more closely with universities? How can universities and mining companies increase the appeal and image of the industry to recruit and retain the best minds and skills? ○ How does the industry ensure its sustainability and innovation from a human capital perspective? ○ Converting theory to practice and the role of academia in giving you a career boost: How are students adequately equipped for the real world and success in mining? ○ The promise and challenges of youth employment - the rise of web-based skills acquisition and the gig economy ○ What employers hire for: Practical advice for job seekers <p><i>Speakers:</i> Katlego Letsoalo, Chairperson, SAIMM Young Professionals Council Prof Ronny Webber Youngman, Head of Department, University of Pretoria Mustak Ally, Head of Skills Development, Minerals Council South Africa Nichole McCulloch, MD, Clifton Hill Associates Sthembiso Phakathi, Consulting Director - Human Capital, Deloitte Caroline Digby, Adjunct Professor, University of Cape Town/WITS</p>
13.35	<p>End of Day – Followed by Speed-Networking Lunch</p>