

### **EVENT BROCHURE**

### 19 - 20 November 2020

Johannesburg, South Africa

miningtechafrica.com

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MiningTech Conferences & Exhibition



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@MiningTech1

MiningTech Conference

Organised by

**SPIRE** EVENTS

# EXPLORE:

Johannesburg, South Africa

Our journey is your destination. We know you want to meet the right people and foster concrete business deals.

We know you also wish to gain fresh perspectives on the IT & technology aspects of the mining industry from global players, make new connections and help shape the future direction for your company and yourself.

MiningTech Conference & Exhibition Series started in Santiago, Chile in 2018 and expanded to Johannesburg, South Africa in 2019. The core of the event to connect miners, investors, technology firms, equipment producersand service providers via personalised networking platforms, 1-2-1 meetings and social events.

Over the two day event, attendees gain key takeaways on the latest international industry trends via presentations and panel discussions. More informal platforms such as roundtable discussions enable attendees to engage in intellectual conversations based on their common interests.

No journey should be dull and routine. Hence, our MiningTech Conferences seek to constantly reinvent and innovate with new cutting-edge content, unique speakers and different attendees. That is our commitment to our returning attendees to ensure maximum mileage every year.

2020 SHOW EXPECTED NUMBERS

**ATTENDEES** 

SPONSORS & **EXHIBITORS** 

**SPEAKERS** 

Spotlight Sponsor

NORTH-WEST UNIVERSITY OORDWES-UNIVERSITEIT

rtner

TOP 3 REASONS TO BE PART OF MININGTECH AFRICA 2020

The leading international mining IT & technology platform in Africa

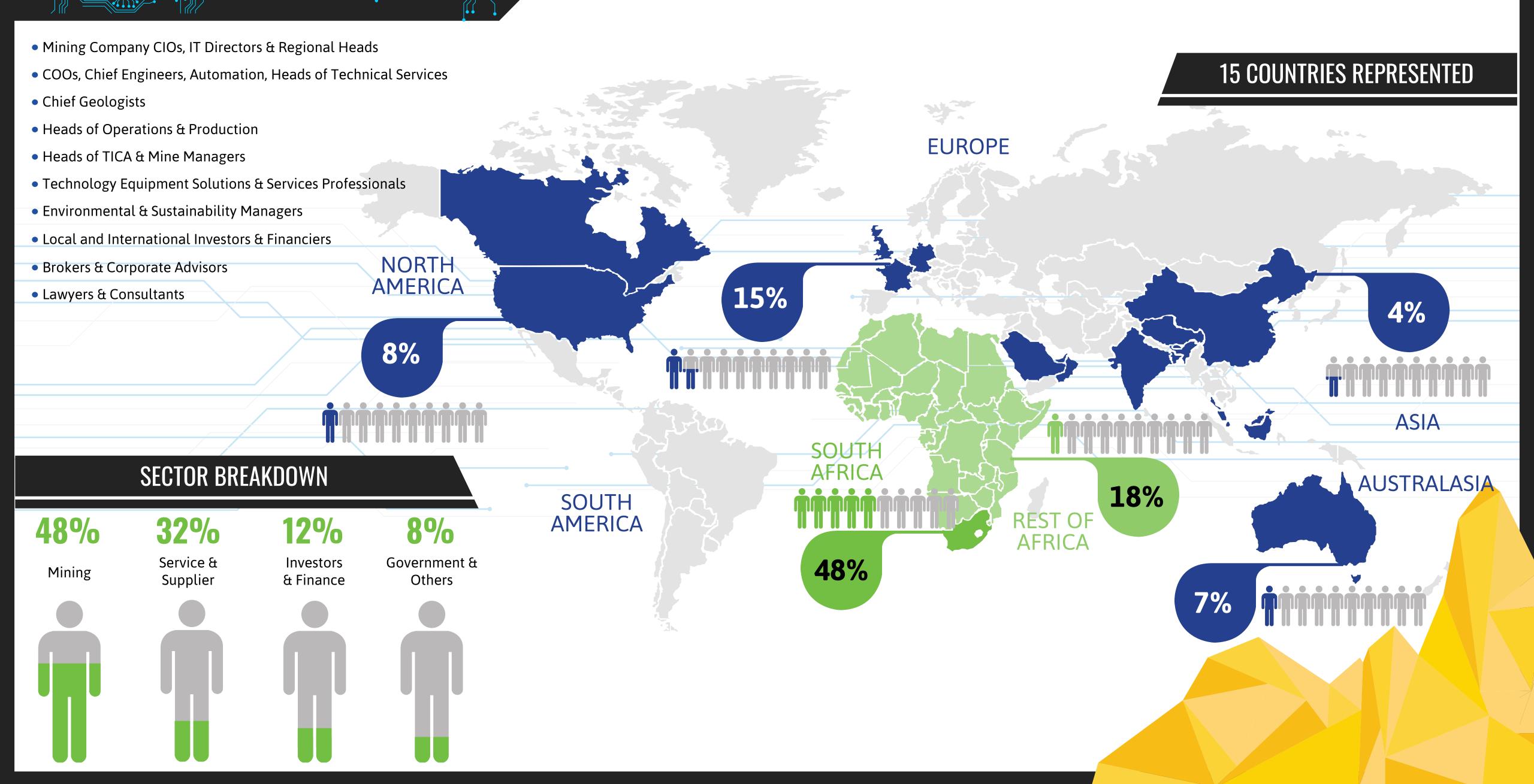


Strong participation of mining companies

Connecting miners, investors and service providers via personalised networking platforms, 1-2-1 meetings and social events

# ATTEND

### THE LEADING MINING TECHNOLOGY PLATFORM IN THE REGION



# AGENDA AT GLANCE

**Conference Day 1** 

19th November 2020

**Industry Opening Keynote** 

# MINIGELE

Mining Technology In South Africa
Innovate Mining & Metals Information Technology

**Spotlights & Roundtables** 

**Networking Lunch** 

Smart Secure Sophisticated Tech Savvy Mining Creating Connected & Controlled Mining

1-2-1 Meetings

**Chair's Closing Remarks** 

**Conference Day 2** 

20th November 2020

**Industry Opening Keynote** 

# MINIGER

Hi-Tech & Intelligent Mines

Mining Tech Innovation - Exploration, Geology And Safety
Governance Technologies

**Spotlights & Roundtables** 

**Networking Lunch** 

Optimising IT Project Management

1-2-1 Meetings

**Chair's Closing Remarks & End of Conference** 

### **MININGTECH SERIES**

MINING TECH SOUTH AMERICA

15 - 16 October 2020 Santiago, Chile MINING TECH BRAZIL

**21 - 22 October 2020**Rio De Janeiro, Brazil

### WHO EXHIBITS



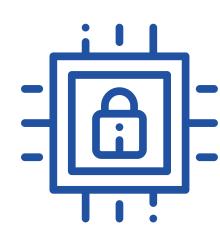
### **Automation & Robotics**

- Drilling & Blasting
- Excavators
- Drones & UAVs
- Loaders & Haulage
- Dozers
- Software Solutions
- Fleet Management



### IoT, AI, Cloud & Big Data

- Artificial Intelligence Providers
- Cloud Computing & IT Platforms
- 3D Mapping
- Training Simulation Software
- Data Visualisation Software
- Machine Learning Analytics
- Mine Design & Planning SoftwareVirtual Reality Technology
- Predictive & Prescriptive Analytics



### **Cyber Security & Safety**

- Cyber Security Technology
- Virtual Simulation
- Network Security Providers
- Application & Service Platforms
- Security Software



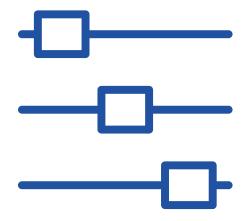
### Mineral Processing, Sorting Technology & Efficiency

- Crushing & grinding efficiency technology
- Milling & Flotation Technology
- Process Training Simulation
- Predictive Control Solutions
- Plant Management Systems



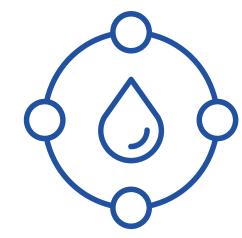
### **Networks**

- LTE Providers
- Wi-Fi Providers
- Satellite Connectivity
- Radio Solutions Networks



### **Smart Mining & Investment**

- Energy Management Platforms
- Comminution Technology
- Smart Heating Systems
- Advanced Process Controls
- Decision Support SoftwareMachine-Learning Systems



### Resource Management Optimization

- Water Management Solutions
- Waste Management Solutions
- Green Mining Technology
- Water Purification/ Decontamination
- Water Treatment Services

# FEATURED SPEAKERS

PRESENTATION: DIGITAL BY DEFAULT –
CYBER SECURITY FOR THE SUPPLY CHAIN
AND CONNECTED ASSETS

PRESENTATION: INSIGHTS OF A
SUCCESSFUL IT PROJECT MANAGEMENT
IN MINING SECTOR

PRESENTATION: STRATEGIES TO BUILD A SMART AND CONNECTED MINE

PRESENTATION: CHALLENGES OF EMBRACING THE DIGITAL LABOUR MARKET









**GODFREY MPOFU** 

Cybersecurity **Exxaro Resources, South Africa** 

**HILDA A NARTEY** 

Regional IT Project Specialist

Newmont Ghana Gold Limited,

Ghana (invited)

**VICTOR PINTO AFONSO** 

Global Programme Leader (Data Science)

Vale, South Africa

**PAULA JACKSON** 

Advisor (Digital Mining)

General Electric (GE), South Africa

(invited)

# CONFERENCE

# EMBRACING IT & TECHNOLOGY INNOVATIONS IN MINING

Mining Tech Africa Conference and Exhibition brings together the most influential & innovative minds to establish itself as leading mining technology showcase platform in the region. Our inspirational keynotes and pioneer speakers provide latest mining industry knowledge and tips to harness the fast-changing global technology developments.

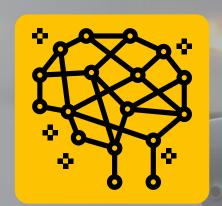
It is the ideal meeting platform for mining companies CXOs, ministers, investors, technology leaders & other industry experts in Africa.

Do you want to speak alongside these industry leaders?

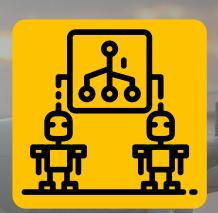
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Opportunities are limited - premier speaking presentations and lead positions are ONLY available for silver sponsors and above. These are allocated on a first come first serve basis!

### **KEY THEMES**



Digital
Disruption &
Transformation



Automation Revolution



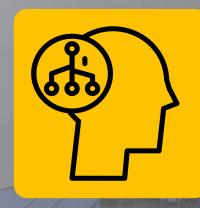
Robotics



Cybersecurity



Analytics, Cloud & Big Data



IoT & Artificial Intelligence (AI)



Blockchain



Intelligent Equipment



Collaboration & Partnership



Underground & Open-cut Mine Operations



Fleet
Management &
Materials
Handling



New
Technologies in
Exploration



Future of Plant & Processing



Integration & Connectivity



Sustainability

# MAIN CONFERENCE DAY 19TH NOV 2020



0850	Welcome from the Organiser
0855	Chair's Opening Remarks

INNOVATION FOR SUSTAINBILITY WITHIN THE MINING SECTOR

0900

GOVERNMENT ADDRESS: ESTABLISH SUSTAINABLE DEVELOPMENT GOALS FOR THE SOUTH AFRICAN MINING SECTOR BY 2030, BY ALIGNING THE GOVERNMENT'S INTEREST WITH THE PRIVATE SECTOR AND COMMUNITY

- Minerals produced by mining are essential for technologies and infrastructure
- How is the widespread adoption of digital technologies reshaping the gold mining sector?
- New technologies in the current market

Adv T Mokoena, Director General, Department of Mineral Resources Republic of South Africa, South Africa (invited)

OPENING KEYNOTE PANEL DISCUSSION: WITH MINERAL RESOURCES BEING EXHAUSTED IN LOW-RISK AREAS, MINING COMPANIES ARE INTERESTED IN NEW TECHNOLOGIES TO VENTURE INTO NEW FRONTIERS. WHAT ARE THE REGIONAL OPPORTUNITIES AND CHALLENGES THAT MINING COMPANIES FACED?

- What are the new technologies made available for extraction and processing?
- Will automation and digitalization result for mining to be more targeted and efficient?
- How will technologies open new ways for companies to optimize existing resources?

Aissata Maiga, Country Manager, Endeavour Mining Corporation, Mali (invited)

#### Panellist:

Robin Buchan, Chief Information Officer, Glencore, South Africa (invited)

#### KEYNOTE PRESENTATION: BIG DATA AND MINING - MAKING USE OF DATA TRANSPARENCY TO BUILD RELATIONS AND ESTABLISH TRUST WITH BOTH INTERNAL AND **EXTERNAL STAKEHOLDERS**

- How to collect and process massive amounts of data that will be essential for mining companies to digitalize and automate their operations?
- How should data be shared and made transparent?
- Use the proliferation of non-financial data to assess the risks of mining portfolios

Reserved for Sponsor | Contact <u>mahesh.babu@spire-events.com</u> to find out more

Morning refreshments & business card exchange

1100

#### PRESENTATION: OVERVIEW OF MINING TECHNOLOGY ACTIVITIES - FROM DEAL MAKING, INVESTMENT AND BEYOND

- Trends in mining technology a quick overview from software to hardware
- Key drivers to the trend how to be cost efficient?
- Identify the risks also involved

#### **INDUSTRY BENEFITS FROM PROJECT MANAGEMENT**

#### PRESENTATION: INSIGHTS OF A SUCCESSFUL IT PROJECT MANAGEMENT IN MINING SECTOR

- Optimising technology efficiency through minimising risk in IT project management
- Involving top management in formulation of IT policy, project and budget management
- Cost control strategies in technology infrastructure to gain competitive advantage without compromising quality

Hilda A. Nartey, Regional IT Project Specialist, Newmont Ghana Gold Limited, Ghana

#### **SMART MINING PRACTICES – GETTNG CONNECTED**

#### PRESENTATION: STRATEGIES TO BUILD A SMART AND CONNECTED MINE

- How to align procurement practices to support a fully automated and smart mine?
- Use smart systems to understand extraction trends, and draw up innovative and feasible strategies
- Calculate the long-term value of new innovations

Victor Pinto Afonso, Global Program Leader, Data Science, Vale, South Africa

Networking lunch

#### FIRESIDE CHAT: MINE OF THE FUTURE - INTEGRATING SMART MINING TECHNOLOGIES TO BUILD A FULLY AUTOMATED MINE

- Align digital strategy and business vision
- Reinvent business models with digital adoption
- Evaluate the impact of digitalization on people, operations and business models

Victor Pinto Afonso, Global Program Leader, Data Science, Vale, South Africa

#### **DIGITAL BUSINESS TRANSFORMATIONS**

#### DIGITAL TRANSFORMATION ROADMAP: HOW SHARED SERVICES CAN PREPARE FOR A DIGITAL FUTURE

- Understanding the opportunities and challenges
- What can be done to address the challenges?
- Building momentum for future digital initiatives

Andrew Jackson, Head of Global Shared Services, Anglo American, South Africa (invited)

#### 1510

#### PRESENTATION: EXPLORING INNOVATIVE WIRELESS TECHNOLOGIES - MINE COMMUNICATION SYSTEMS

- The control and monitoring of mine communications
- Machine to machine communication M2M, increasing safety & reliability
- Increasing productivity & heavy data sharing in high speed environment proactive and predictive

**Afternoon refreshments** 

1610

#### PANEL DISCUSSION: SHARE INSIGHTS FROM THE LATEST TECHNOLOGY EQUIPMENT AROUND EXTRACTION, PROCESSING AND PRODUCTION

- Latest trends and technological advances in critical minerals
- Minimizing environmental impact for the separation of critical minerals
- Optimizing plant performance and minimizing downtime
- Develop new tools and methods to aid in the search for mineral deposits and their development

#### PRESENTATION: DIGITAL TRANSFORMATION – LEVERAGING TECHNOLOGY TO IMPROVE PROCESS AND REDUCE COST

- How can mining operations take advantage of these emerging technologies?
- Using digital transformation to help mining companies to keep pace with other industries
- Adopting digital techniques, tools and technology to achieve higher sophistication and resilient system
- Evaluating the associated benefits of a digitised mine and how this impacts the bottom line

Danie Burger, Chief Advisor – Underground Technology, Anglo American, South Africa (invited)

1720	Chair's Closing Remarks
1730	End of Day 1

# MAIN CONFERENCE DAY 2 - 20<sup>TH</sup> NOV 2020



0850 Welcome from the Organiser

Chair's Opening Remarks

INDUSTRIAL REVOLUTION – THE FUTURE

#### 0

#### PRESENTATION: CHALLENGES OF EMBRACING THE DIGITAL LABOUR MARKET

- Create united work forces with both human and robotics
- Provide and promote remote and mobile workforces
- Encourage transparency and collaboration business wide with digital
- Foster the acceptance of digital thinking worldwide

Paula Jackson, Advisor (Digital Mining), General Electric (GE), South Africa

0930

#### PANEL DISCUSSION: EXPLOITING TECHNOLOGY AND NEW OPERATIONAL PRACTICES FOR GREATER EFFICIENCY ACROSS MINES & PRODUCTION OPTIMIZATION

- What are the major challenges and how to overcome them at projects implementation?
- Ensuring the successful integration of technology at mines and the key lessons learnt
- How to select the right technology for mining operations to maximise profitability and adaptability to your organisation?
- Evaluating the benefits of wearable technology for miners

#### Moderator:

0855

Paula Jackson, Advisor (Digital Mining), General Electric (GE), South Africa

#### Panellist:

Steven Jacobs, Vice President Group ICT, Sibanye- Stillwater, South Africa (invited)

Andre Fourie, Principal Geologist, Debswana Diamond Company, Botswana

#### **CYBERSECURITY THREATS**

1010

#### PRESENTATION: BROADEN CYBER SECURITY & INTELLIGENT SECURITY SYSTEM - IDENTIFY NEW SOLUTIONS TO PROTECT THE IT AND OT SYSTEMS

- Programming cyber security and physical security to work as one
- Deployment of intelligent security systems in the mining environment
- Benefits of an integrated surveillance solution

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1040

Morning refreshments & business card exchange

1110

#### PRESENTATION: DIGITAL BY DEFAULT - CYBER SECURITY FOR THE SUPPLY CHAIN AND CONNECTED ASSETS

- Securing digital environment and identifying risks in the mining industry
- Preventing cyber-attacks and data breaches with enhanced cyber security
- Provide greater control of integrated systems

Godfrey Mpofu, Cyber Security, Exxaro Resources, South Africa

#### **ROBOTICS AND INDUSTRIAL AUTOMATION**

1140

#### PRESENTATION: HOW ARE DRONES RESHAPING THE MINING INDUSTRY?

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#### 121

### PANEL DISCUSSION: BUILDING A CONNECTED, DIGITAL PLATFORM FOR A SAFE, EFFICIENT AND PRODUCTIVE MINE – DISCOVER HOW THE MINING INDUSTRY CAN BENEFIT FROM A NEW COMMUNICATIONS ARCHITECTURE

- What technologies help mining operators to create value, through business-centric applications and cross-domain collaboration?
- How digital value platforms ensure that mining companies can turn the masses of data collected from a vast multitude of sensors, cameras and systems into actionable insights from pit to port?
- A mission-critical private LTE network will support robust wireless, multi-service coverage and capacity, offering a unified, future-proof infrastructure for mobile broadband, PTT/PTV, CCTV, IoT and future AR/VR applications

1250 Networking lunch

ROUNDTABLES 1400

ROUNDTABLE 1: CLOUD ADOPTION, CHALLENGES AND CLOUD CONSCIOUS APPROACH TO DATA PROTECTION

ROUNDTABLE 2: HOW AUTOMATION, ROBOTICS AND REMOTE-CONTROL DRIVE PRODUCTION AND EFFICIENCY?

#### **IMPROVE MINING EFFICIENCIES WITH IOT**

1440

#### PRESENTATION: HOW WILL IOT APPLICATIONS REDEFINE REAL-TIME MANAGEMENT (INCLUDING OPERATIONS AND MAINTENANCE)?

- Connecting people, processes, data and thing above and below the ground
- Utilizing IoT technologies to combine monitoring and control systems with remote equipment control and tracking
- Combining operational technology with networking and security capabilities

Inger Kristensen, IT Operations Manager, Rio Tinto, South Africa (invited)

1510

#### FIRESIDE CHAT: EVALUATING MINING PRACTICES AND OVERCOMING INDUSTRY CHALLENGES TOWARDS GREEN MINING

- Regulations, green technology or streamlined operations which of those initiatives play a greater role towards achieving environmentally-friendly mine?
- What are the challenges and how to reduce their impact?
- Which technology innovations drive the revolution across the industry?
- Role of water technology

1610

**Afternoon refreshments** 

1910

#### PRESENTATION: HOW CAN IOT TO IMPROVE PERFORMANCE AND BOOST PRODUCTIVITY?

- IoT helps with data management, enabling data to be extracted and processed in a shorter time frame
- Helps to improve safety onsite
- With a fully integrated network, it makes monitoring the operation much easier leading to greater productivity and maintenance

Gerhard Rautenbach, Manager, New Technology Projects, Harmony Gold, South Africa (invited)

#### **COST CUTTING MEASURES WITH TECHNOLOGY**

1640

#### PRESENTATION: USING TECHNOLOGY TO REDUCE PRODUCTION COSTS AND IMPROVE CASH-GENERATING ABILITY

- Keep up with the pace of innovation
- What are the challenges and opportunities that comes up when you automate the physical operations and digitise assets?
- Identify potential roadblocks

Pierre Van Tonder, Network Administrator, Freeport-McMoran Copper and Gold Inc, South Africa (invited)

1710 Chair's Closing Remarks

1720 End of Mining Tech South Africa 2020 Conference

## CONNECT AND SHARE



# CONNECT AND SHARE



# WHY YOU SHOULD EXHIBIT

EXHIBITOR PACKAGES

- Generate new leads: Meet buyers and decision makers from the region's mineral resources industry
- Brand your company: Enhance your visibility and benefit from growing technology investments in the mining industry
- Open doors to new market: Engage with distributors, partners or agents to expand your business in Africa
- Showcase your thought leadership with panel discussions and speaking presentations
- Benefit from networking activities: 1-2-1 business meeting tool, lunches and evening cocktail receptions
- Get ahead of the competition and make the necessary connections to get a head start in the African mining industry

EXHIBITOR PACKAGE	USD 5,400	BRONZE PACKAGE	USD 10,000			
<ul><li>Exhibition Stand 3m x 2m</li><li>2x Delegate passes</li><li>2x Investor passes</li></ul>		<ul> <li>20min premium speaking slot on day 2</li> <li>Exhibition space 3m x 2m</li> <li>3x Delegate passes</li> </ul>				
<ul> <li>Access to 1-2-1 business matching to</li> <li>Company listing on the website</li> </ul>	ol	<ul><li>6x Investor passes</li><li>Access to 1-2-1 business matchi</li></ul>	ng tool			
<ul><li>Company listing in the event guide</li><li>Company logo on event brochure</li></ul>		<ul><li>Company listing on the website</li><li>Company listing in the event gu</li></ul>	iide			
<ul><li>Company logo on post-event report</li><li>Company name of tabletop</li></ul>		<ul><li>Company logo on event brochu</li><li>Company logo on post-event re</li></ul>				
• 2x chairs		<ul><li>Company name of tabletop</li><li>2x chairs</li></ul>				

### SILVER PACKAGE

USD 15,000

- 20min premium speaking slot on day 2
- Opportunity to chair session, moderate, join a panel discussion
- Exhibition space 3m x 3m
- 3x Delegate passes
- 6x Investor passes
- Access to 1-2-1 business matching tool
- Company listing on the website
- Company listing in the event guide
- Company logo on event brochure
- Company logo on post-event report
- Company name of tabletop
- 2x chairs

### SPONSORSHIP OPPORTUNITIES

PACKAGE / BENEFITS	LEAD	PLATINUM	GOLD	SILVER	BRONZE	EXHIBITOR
Content and Industry Thought Leadership						
Keynote speaker slot (30 minutes)	2	1				
An opportunity to chair sessions, moderate or join a panel	2	1	1	1		
Host a roundtable		1	1			
Premium speaker slot (20 minutes) - Day 1			1			
Premium speaker slot (20 minutes) - Day 2				1	1	
Partnering Benefits						
Assistance with pre-arranging meetings	Yes	Yes	Yes	Yes		
Conference passes	10	6	4	4	3	2
Exhibition passes	6	4	3	2	1	1
Investor passes	20	12	8	8	6	2
Use of networking platform	Yes	Yes	Yes	Yes	Yes	Yes
Exhibition space	36 sqm	24 sqm	12 sqm	12 sqm	9 sqm	6 sqm
Branding and Profiling Benefits						
Website listing - profile and logo	Yes	Yes	Yes	Yes	Yes	Yes
Visitor show guide listing - logo	Yes	Yes	Yes	Yes	Yes	Yes
Visitor show guide listing - profile	350 words	250 words	150 words	100 words	50 words	50 words
Visitor show guide - advert	2 pages	1 page	1/2 page	1/4 page		
Conference brochure - advert	2 pages	1 page	1/2 page			
Sponsorship inserts in the delegate packs	Yes	Yes	Yes			
Logo on either side of exhibition floor entry area	Yes	Yes				
Logo on backdrop of the main conference room	Yes	Yes	Yes	Yes	Yes	
Lead Generation Benefits						
Content email shot	2	2	1	US\$ 5,000		
Opportunity to Choose of the following Add Ons						
Coffee break one day, lunch sponsor one day, pens	Yes	Yes				

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### ADDITIONAL BRANDING AND PROFILING OPPORTUNITIES

Aside from the above, below are a selection of additional branding and profiling opportunities that are available to either add onto one of the above sponsorship options or can be created as a bespoke package that best suits your needs.



SESSION SPONSOR



NETWORKING DRINKS SPONSOR



**EXHIBITOR** 



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LANYARD SPONSOR



WIFI SPONSOR



COFFEE BREAK SPONSOR



LUNCH & GALA DINNER



EVENT FOLDER SPONSOR



WATER BOTTLE SPONSOR



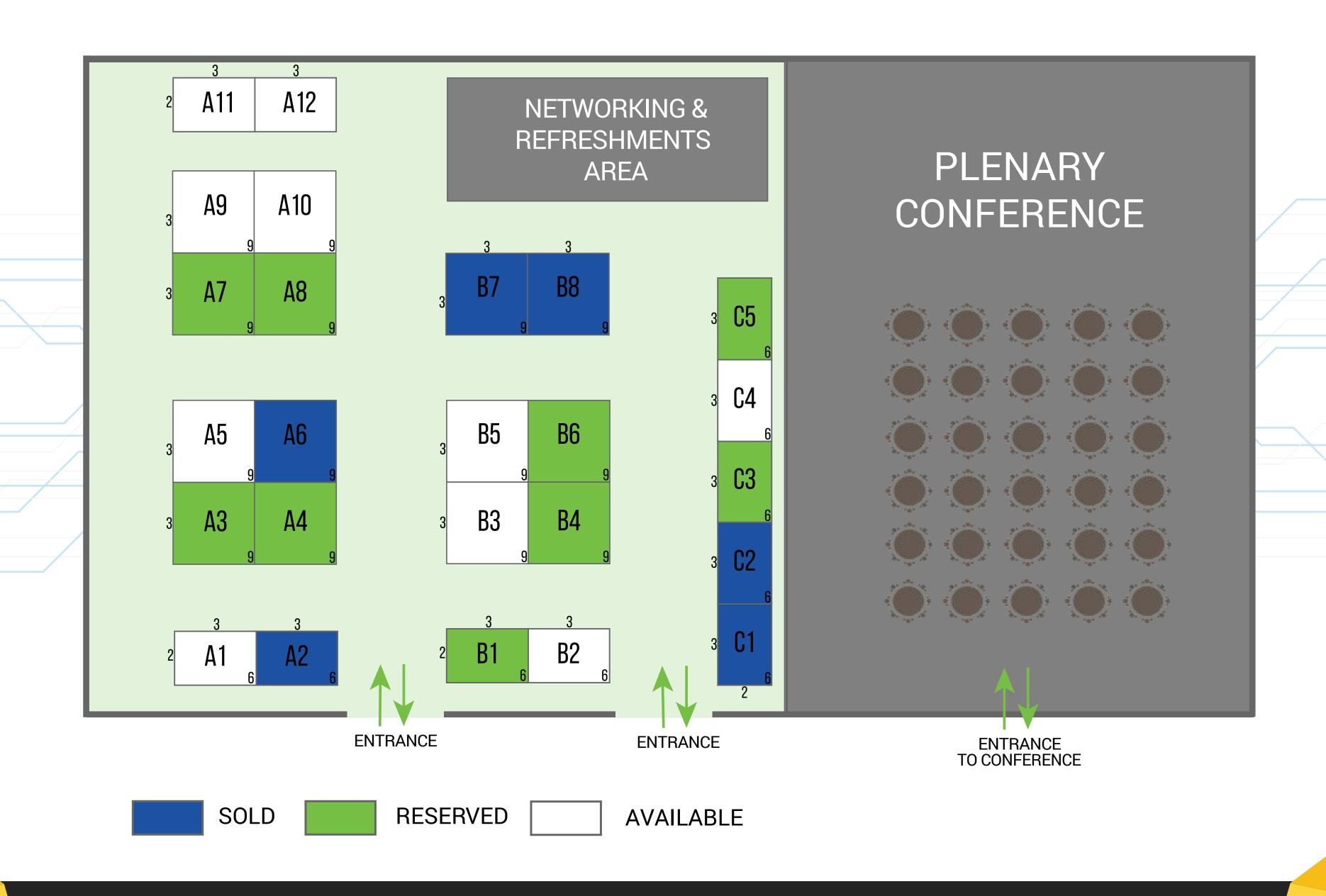
STATIONERY & BAG SPONSOR



MORE!

# EXHIBITION FLOOR

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## NETWORKING

# NETWORKING MEALS AND EVENING DRINKS RECEPTION

We all have our pet topics and interests and some of us prefer sharing what we know with others in a small group settings.

Roundtable discussions, with country, commodity or other mining specific topics, presents a perfect platform for more cosy intellectual discussions. Moreover, conversations with other like-minded individuals provides a great opportunity to exchange viewpoints and foster new business contacts.

### 1-2-1 MEETINGS



Volunting equity strates participally another to enhance to enhanc

Food and drinks always make excellent conversation starters. Hence MiningTech Conferences devotes substantial time to create the perfect environment for relaxed, casual networking meals and drinks.

With no set time limit on how long each meeting should last, attendee can freely mingle and discover new opportunities and contacts. We will also be on site to matchmake attendees based on their common business profiles or objectives.

ROUNDTABLE DISCUSSIONS

Undivided one to one attention is a tried and tested networking method too. They can be a great platform to have confidential, direct and targetted conversations. MiningTech Conferences, with the help of the virtual business matching tool or on site staff introductions, faciltate such networking opportunities.

## HOW WE TARGET BUYERS

### A MARKETING & PR CAMPAIGN THAT SPANS 7 MONTHS

We continually engage with our community of industry professionals. A few highlights from the 2018 campaign include:

50,000 Emails sent

Trade Publication Campaigns

Our marketing campaign comprises of:



Print and Web





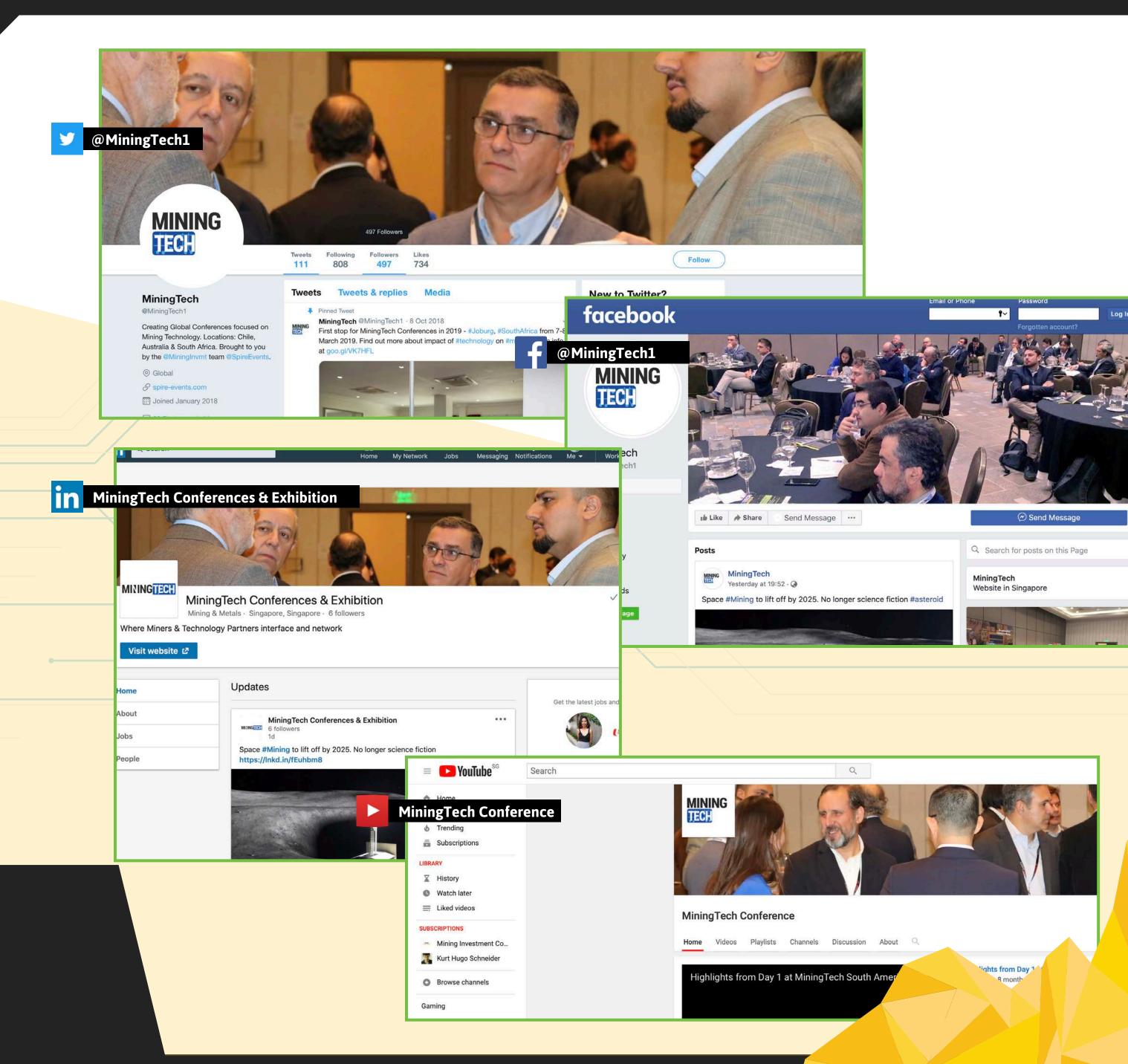
Social Media



Telemarketing



TV and radio



### **BOOK YOUR STAND**

#### **MAHESH BABU**

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# MEET THE TEAM



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