## <u> IBDO</u>

NATURAL RESOURCES PRACTICE | EDITION 2 | MAY 2020

## BENEATH THE SURFACE

## COVID-19 AND BEYOND

Current challenges in an industry that plans 20 years in advance.

THE GREAT UNKNOWN.

## IN THIS ISSUE:

CURRENT CHALLENGES IN AN INDUSTRY THAT PLANS 20 YEARS IN ADVANCE	02
TECHNOLOGY: ENHANCING MINING SAFETY AND PRODUCTIVITY DURING AND AFTER COVID-19	04
IS NOW THE TIME TO INVEST IN SOUTH AFRICAN GOLD MINING?	06
A DIFFICULT MONTH FOR NATURAL RESOURCES COMPANIES	8
PANDEMIC PAY INSIGHTS FOR MINING & METALS COMPANIES	10





## CURRENT CHALLENGES IN AN INDUSTRY THAT PLANS 20 YEARS IN ADVANCE.

## The great unknown.

The new world has begun, or has it? Whilst we are in this period of uncertainty everyone is speculating what will become of the world as we knew it. How will humankind react to this COVID 19 virus and how will business deal with this new world. Mines will as always need to pre-empt the requirements of the world, 10 to 25 years into the future to provide the resources required.

The shutdown of non-essential and deep-level mines will have given the industry time to consider how to not only deal with the start-up of operations but also how to prepare for a similar Black Swan type event in the future.

The mining industry has always been at the forefront of preparing for unusual and out-of-the-ordinary events as they generally operate outside of major centres and new supplies could take days' or even weeks to be available.

### So what is the current market outlook?

The market for resources will continue to be depressed for the 2020 year as the long lasting impact of Covid-19 has decimated global growth. The continued geo-political issues that plagued 2019 with US-China trade war will likely continue in 2020 as it is anticipated that a ramp-up in protectionism rhetoric will occur in the run up to the US elections later in 2020.

With the world has seemingly stopped anywhere, for a period of about 3 weeks to 2 months with lockdowns, in some form or another in all major countries. China had locked down their manufacturing sector since end of January and is only starting up factories in early April 2020. This has resulted in worldwide harbours reporting significant declines in volumes of between 50% and 75% in this period. Factory activity in China plunged to its worst level on record in February 2020.

These factors will all contribute to a slow start-up for the mining community once the lockdowns are over and no immediate bounce in demand.



## So what will change if any and how to react to that challenge

The immediate future will challenge the industry to ensure the virus does not spread through their communities. The majority of mines and their employees operate in very close proximity of their surrounding communities and should the virus spread through these communities, the impact could be devastating. Not only will the loss of lives potential be catastrophic but the psychological impact could cause mistrust between the community and the industry.

Thus the challenge is how does an industry that requires a big workforce that operate in small enclosed spaces operate in a Covid-19 world. Each mine will have to determine what works best as there will be no one-size fits all solution for the industry. The solutions will range from taking additional personal protective equipment to regular testing and smaller shift-work forces. These all come at a cost, be it added production costs or less production output resulting in low profitability. These cost pressures along with depressed market prices will be difficult for the industry to deal with.

In the medium to long term the industry will push harder than before for mechanised mining and a reduction in workforce. This is a capital intensive process but considering how the majority of the industry has worked to reduce debt and shore up their cash reserves and balance sheets, now may be the perfect opportunity to upscale the mechanisation of the mines.

The industry will have to rethink their modus operandi. The safety of the workforce and community will need to come first. This will include how rotational staff is transported to and from mines all across the world, from Chile to Africa and Australia.

Greater emphasis on the mechanised mines, remote drilling and blasting will be the order of the day. These will be challenging times for the industry. The major miners will adapt and has the balance sheets to afford the short term change requirement in the environment, the marginal and junior miners will be where jobs will be lost and companies become financially distressed. If they can get the balance right between workforce optimisation and mechanisation will the mines ultimately become more profitable in the future, which will bring opportunities of a different kind.

### lacques Barradas

Audit Partner, BDO in South Africa jbarradas@bdo.co.za



# TECHNOLOGY: ENHANCING MINING SAFETY AND PRODUCTIVITY DURING AND AFTER COVID-19

Technology remains one of our most potent tools to fight Covid-19 and maintain business productivity. Investing in these tools will, have value beyond the current lockdown

Mining is among the first sectors to open under Level 4 lockdown restrictions. Unlike some other industries, mines cannot operate remotely and require consistent labour inputs at scale to be productive. While the Minerals Council South Africa has released essential guidance for keeping workers safe during Covid-19, we should not underestimate the role that technology can play in augmenting mining safety and efficiency during this time and in the future. Technology is not new to mining, especially in issues of safety and productivity, but has been a contentious discussion given the need to balance these issues with those of job preservation.

Rather than changing the need for this debate, Covid-19 has highlighted the urgency of striking a real balance between the number of people on-site at any one time and the need to maintain safety and hygiene control. The need to mine has not changed, but how we mine has.

Here's what some of the technology can do

## **Drones: Enhancing safety and accuracy**

Manually measuring mining stock is time-consuming and prone to error. Drones, by contrast, can fly over a stockpile and take images to understand its length, breadth and depth. This data is then run through our algorithm to measure stock volumes based on these inputs. All of this can be done remotely, allowing assessors and inventory controllers to work from home and reduce the risk of spread.

Drones can also be used to assess excavation risks by flying over specific areas of a mine and tracking geological and structural changes over time. This data is then fed into a machine learning algorithm, which can predict those areas at risk of collapse. This allows mines to proactively protect workers by moving them so that productivity can be sustained without unnecessary risks.



## Internet of Things: More information means more efficiency

## A new era of mining

## Kevin Moodley,



# IS NOW THE TIME TO INVEST IN SOUTH AFRICAN GOLD MINING?

# Gold price may be booming but it's unlikely to attract any investment into South Africa's gold mines

Gold has historically been a safe haven in times of uncertainty. With economies and stock markets around the world crashing as a result of the ongoing COVID-19 pandemic, investors have once again flocked to buy gold, with demand resulting in gold reaching a 7 year high of >\$1,700/oz in recent days.

Gold's latest run is spurred by cash injections to mitigate the severe impact of COVID- 19 on the global economy. Governments worldwide are signing off on massive stimulus measures on top of the near-zero interest rates and quantitative easing in the hopes of jumpstarting businesses.

One would think that the high gold price would encourage more investment into South African gold mines, nowever market price is only one consideration and there are other factors that investors take into account and may, in fact, place more emphasis on.

The history of gold in South Africa goes back to 1873 when the first large-scale production began when alluvial deposits were discovered at Pilgrim's Rest, followed shortly by gold discovery in Witwatersrand in 1884. The discovery of gold in the late 19th century gave rise to the development of the city of Johannesburg, Egoli, or the City of Gold and for many years, South Africa was the world's primary gold producer.

This is no longer the case and South Africa's gold output has continued to decline for several decades. From peak production of around 1,000t in 1970, the nation's gold output fell to 130t in 2018, with South Africa now only accounting for c.4% of the world's gold production.



## Iill MacRae.



# A DIFFICULT MONTH FOR NATURAL RESOURCES COMPANIES

The combination of the oil price war triggered by the underlying, ongoing dispute between Russia and Saudi Arabia and pressures on commodity prices from the global spread of coronavirus are creating an unprecedented international crisis that unsettles the Natural Resources sector – not just the oil and gas companies but mining companies too.

Some oil traders expect prices to continue to fall within the next few months. As a result, global oil and gas exploration and production investments are expected to fall considerably. In addition, staffing and supply shortages for key services and the provision of key equipment may delay the delivery of projects further. Conversely, however, with the cancellation of projects due to uncertainty around the availability of funding, any companies which were fully funded or had cash on balance sheet, may see an opportunity to secure better rates in the services market and bring projects on line under budget.

Gold companies may benefit from an increased commodity price as a result of people looking to securitise their funds into the classic, historic security that is gold. If you look at the current trends in the gold price the commodity has already started to tick back up but commentators are now starting to note that gold prices may rally further. Traditionally investing in gold has seen many as the way to ride out the peaks and troughs of the sector space.

Regarding the impact on commodity miners, those mining for battery metals and gemstones may have a different angle on the impact of COVID-19 than just pricing considerations. A lot of mines are located in remote, relatively undeveloped areas of the world where medical supplies and access to hospitals are severely limited. Mining can also be a labour intensive business with many workers either coming from local areas or flying in and flying out on shift patterns. With the speed of the spread of the virus many mining companies are swiftly taking measures to lock down their operations and increase their onsite medical support. Likewise, restrictions on travel is hampering the fly in and fly out workers and operational changes are under review already.



The capital markets will make up their own mind about the sector in time but the shorter term requirement for access to funds, for some, will become even more of a challenge than it already was.

capital projects over the shorter term and likely longer term too, implement revisions to logistics, review their contracts for the application of provisions covering extraordinary circumstances and supply chain

A number of governments, all around the world, have enacted stimulus packages to support businesses of

## Louise Sayers,

Head of Natural Resources & Energy, UK



## PANDEMIC PAY INSIGHTS FOR MINING & METALS COMPANIES

## 1. General Trends

- ▶ While the majority of organisations have a pandemic plan, more than 20% had not yet initiated a response,
- ▶ Of the organisations with a response plan, over 50% made it companywide, with around 10% initiating a
- ▶ Response plans were widely being communicated via email, intranet or formal training
- Over 90% of organisations initiated new workplace hygiene standards including: hand sanitiser stations,
- ▶ 20% of organisations were still allowing non-essential visitors to site
- ▶ 31% of organisations reported having on-site medical facilities, capable of isolating and treating



## 2. Remuneration and workforce trends

- ▶ An equal proportion of the workforce were reported to have the opportunity to work from home as those
- ▶ Potential approaches to remunerating employees during a lockdown were mixed, with more than a third of
- ▶ For on-site employees, the majority of organisations were preparing for reduced allowances to keep more

## **Pandemic Pay Strategies**











## **Protect Employees** minimise spread of the virus

## **Show Stewardship**

take timely action using the data at hand, at the time

## **Build Trust**

goes a long way

## Equity

be honest providing service in an equitable manner, including the special needs, cultural values and religious beliefs of a diverse workforce

## Reciprocity

acts are appropriately recognised

cancel both internal and external gatherings and remodel to a virtual meeting

### Social distancing

enforce social distancing measures when coming together is essential

## Remote working

if working from home is possible, enable

consider changing roster patterns for greater risk reduction

dedicate time to communicating expectations and changes direct to an employee's inbox

## On-site resources

lift awareness through visual posters and materials

## Etiquette

develop site specific policies and online training around hygiene practices that make sense for

### Mental Health

recognise there will be significant emotional strain experienced at all levels of the

### **Empowering HR**

give human resource managers a leadership information sharing

## **Employee Assistance Programs**

remind employees of the immediate EAP program exists

## Sherif Andrawes,

TECHNOLOGY: ENHANCING MINING SAFETY AND PRODUCTIVITY DURING AND AFTER COVID-19 IS NOW THE TIME TO INVEST IN SOUTH AFRICAN GOLD MINING?

A DIFFICULT MONTH FOR NATURAL RESOURCES COMPANIES PANDEMIC PAY INSIGHTS FOR MINING & METALS COMPANIES

CONTACT US

