

THE OXFORD PLATINUM LECTURES 2020

Primary PGM supply – will history repeat itself?



Real Mining. Real People. Real Difference.

EXTERNAL

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WILL HISTORY REPEAT ITSELF?



Are the palladium and rhodium price incentivising new production?

- · But, what is the right commodity price
- · Developing quality assets into sustainable demand

We have seen this before and there is risk in trying to time the market

- Damaged company balance sheets
- Mine closures and reductions in capital expenditure

This time, will it be different?

- Investors looking for return of capital in addition to return on capital
- Increasing demands for sustainable investment
- A modernised and technology/digitally enabled industry

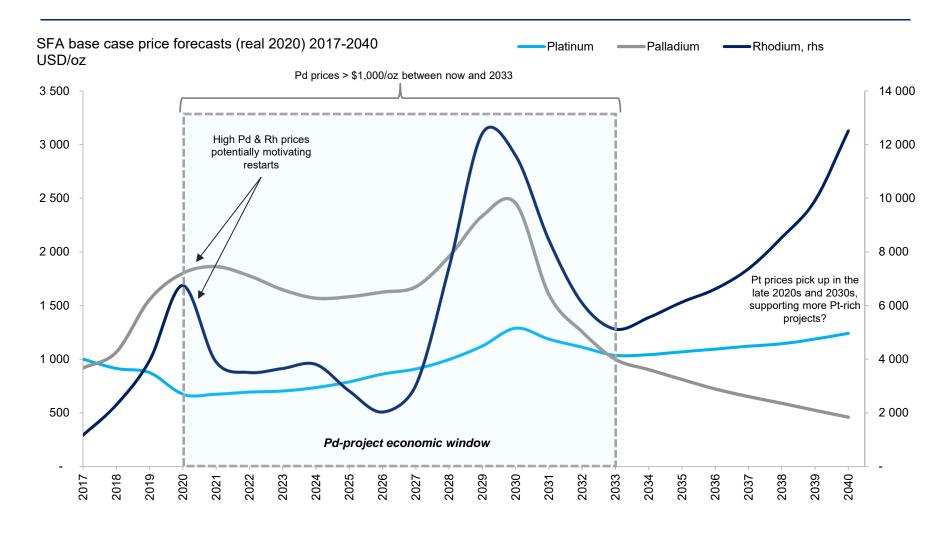
Supply will be disrupted in the short-term, stable in the medium-term

- COVID-19 impact
- Projects to offset mine depletion

Re-imagining mining to improve peoples lives

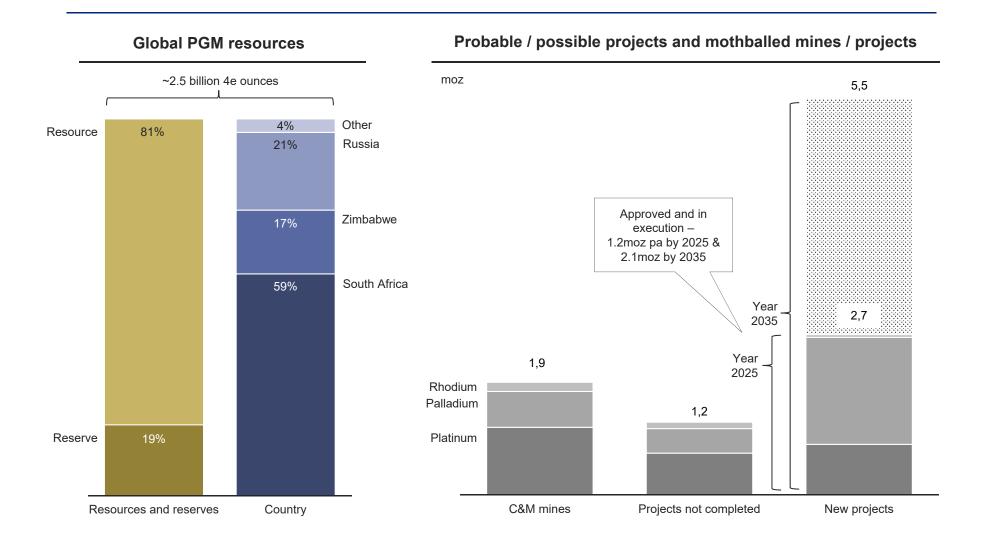
- Operating model, P101 and FutureSmart Mining™
- · Attractive investment and growth options

PD AND RH PRICE, INCENTIVISING NEW PRODUCTION?



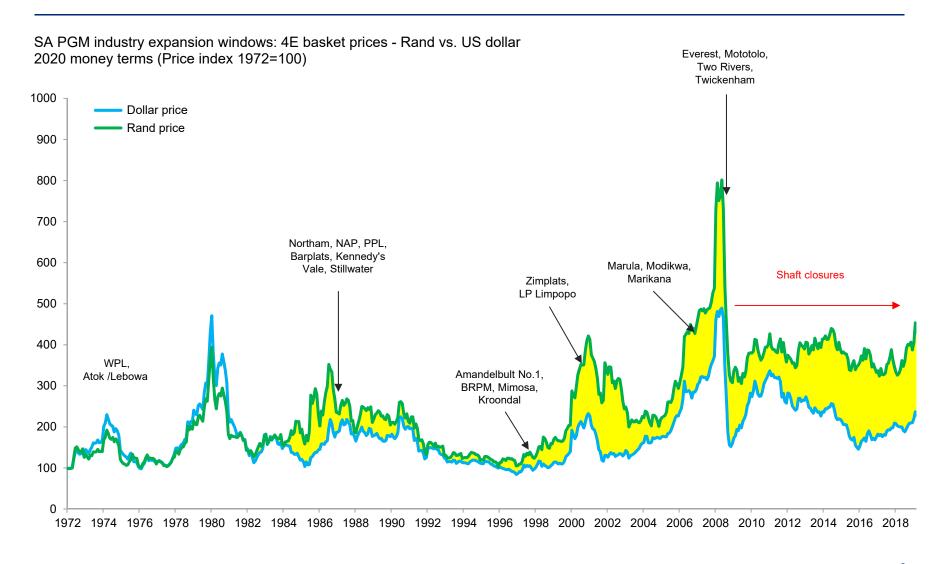
Source: SFA Oxford

THERE IS PLENTY RESOURCES AND A FLURRY OF ACTIVITY



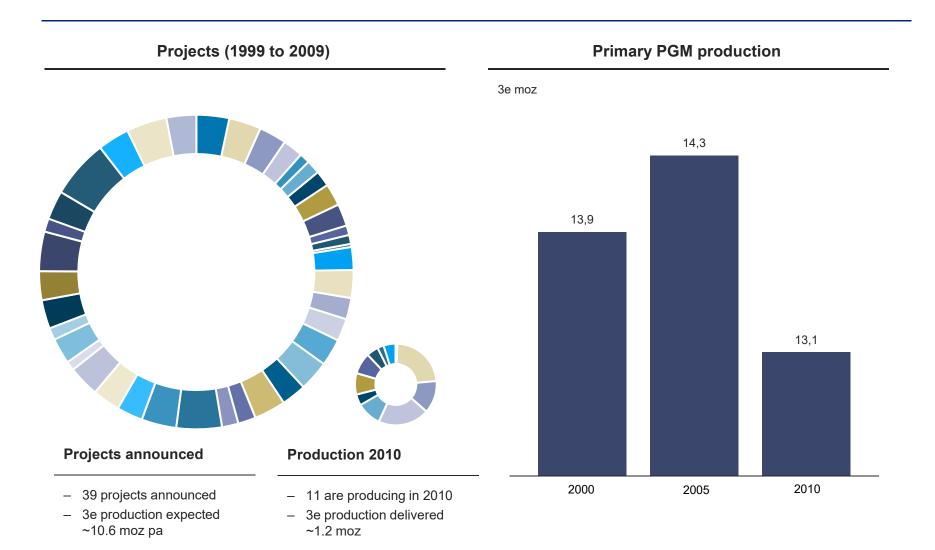
Source: Company reports and SFA Oxford

BUT WE HAVE SEEN THIS BEFORE



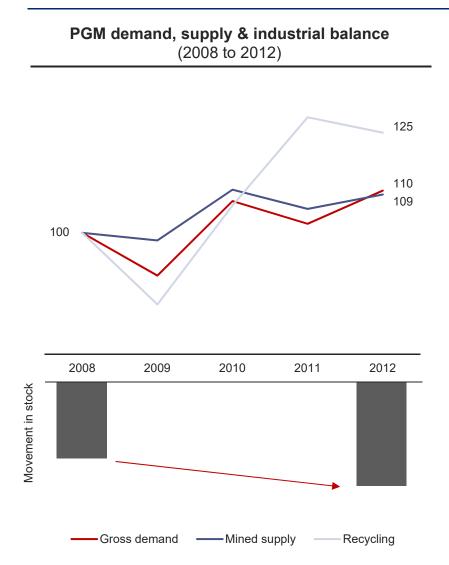
Source: SFA Oxford

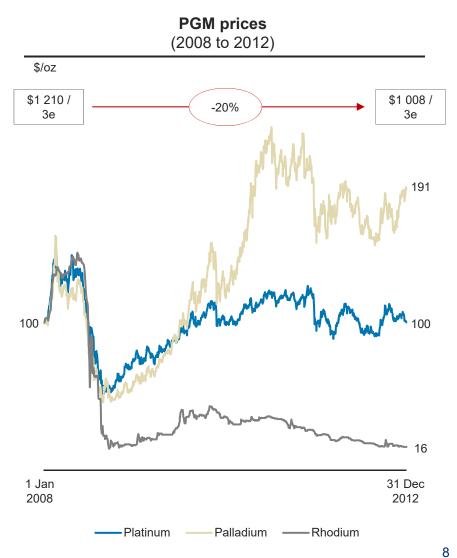
GROWTH EXPECTATIONS DID NOT MATERIALISE



Source: SFA Oxford and Johnson Matthey

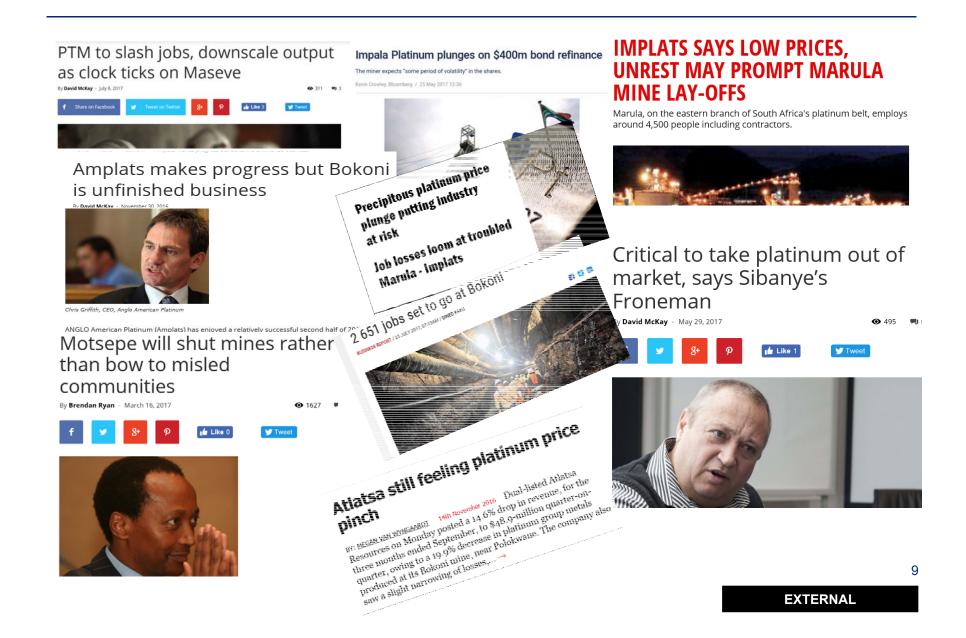
THERE IS RISK IN TRYING TO TIME THE MARKET





Source: Johnson Matthey

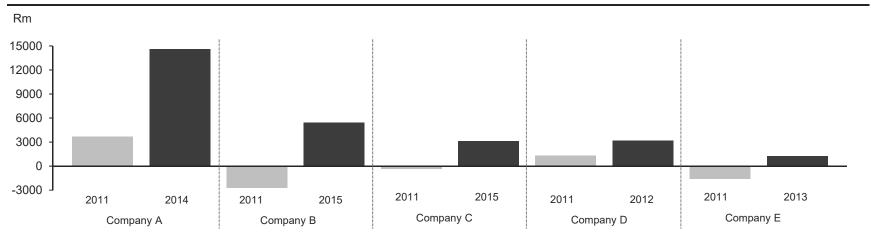
NEEDED TO ADDRESS AN INDUSTRY IN CRISIS



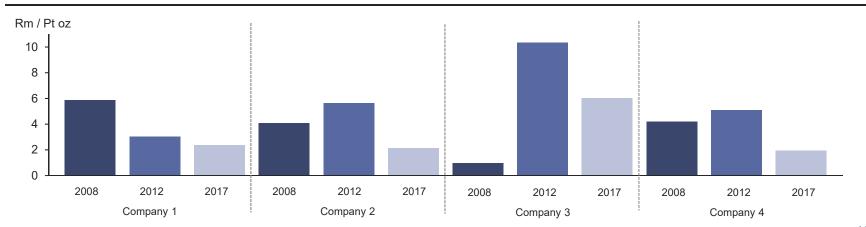
CONSTRAINED BALANCE SHEETS AND REDUCED OF CAPITAL EXPENDITURE TO SUSTAIN FUTURE PRODUCTION

South African producer debt / (cash)

(low & peak - 2011 to 2015)



South African producer annual capital expenditure per refined platinum ounce

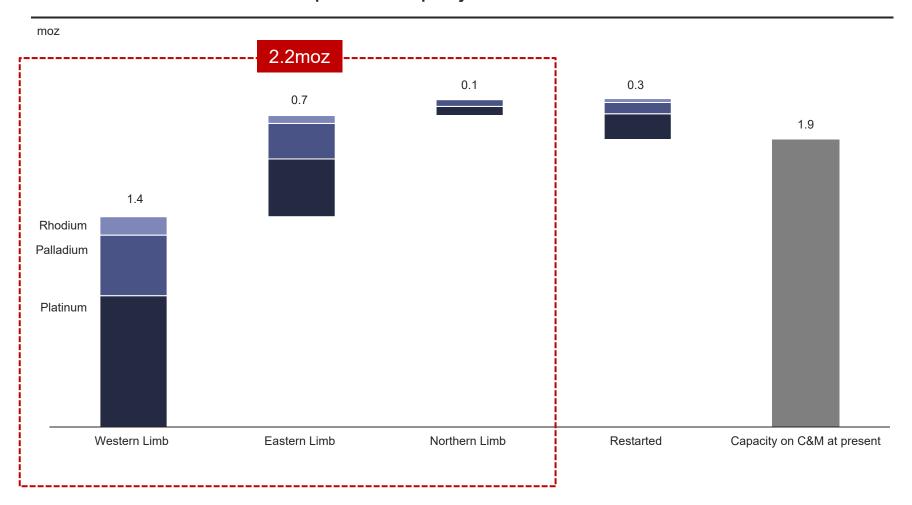


Source: Company reports and Bloomberg

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~2.2MOZ OF CAPACITY PLACED ON C&M, PREDOMINANTLY ON THE WESTERN LIMB

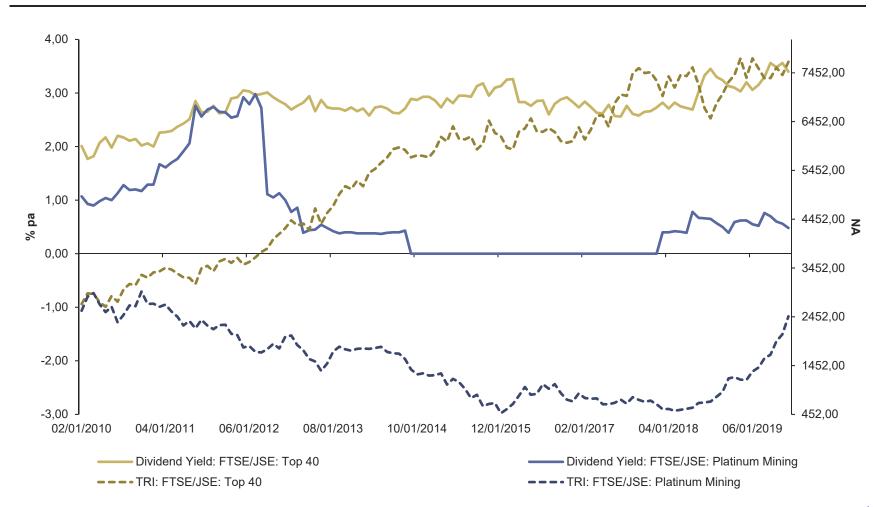
PGM production capacity - closures 2009 to 2017



Source: SFA Oxford

RETURN OF CAPITAL AND RETURN ON CAPITAL

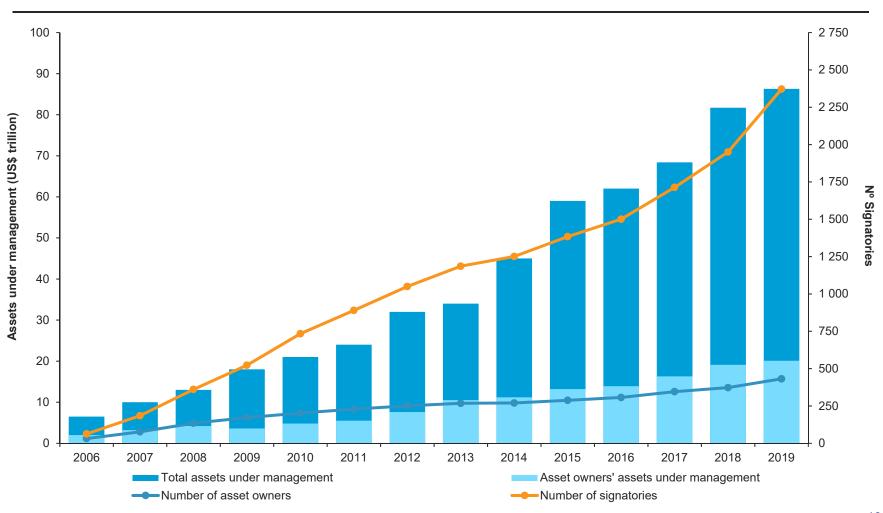
South African PGM miners have underperformed



Source: Bloomberg

INCREASING DEMANDS FOR SUSTAINABLE INVESTMENT

United Nations Principles for Responsible Investment signatory growth



SHAREHOLDERS VS STAKEHOLDERS



COVID-19 WILL IMPACT SHORT-TERM SUPPLY

RUSSIA

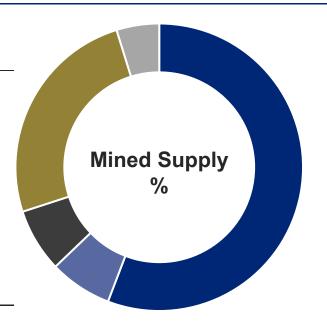
~25% of primary supply

- Government enforced lockdown from 28 March 2020 to 11 May 2020
- Nornickel continues to operate with additional measures to mitigate the impact of Covid-19



~7% of primary supply

- Canada taking a staggered approach to lifting restrictions from 27 April 2020
 - PGM mining classified as essential business, Covid-19 infections resulted in self-enforced C&M
- Various US states have begun lifting lockdown orders. No nationwide lockdown was enforced
 - Major PGM mines continue to operate with a reduced workforce



ZIMBABWE

- ~7% of primary supply
- Government enforced lockdown from 30 March 2020 to 3 May 2020, mines and processing facilities placed on C&M
- Permissions for restart of operations granted – steps to be taken to reduce risk

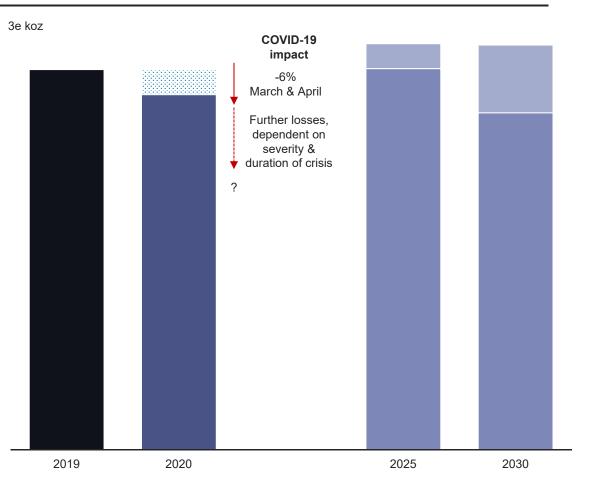
SOUTH AFRICA

~55% of primary supply

- Government enforced lockdown from 26 March 2020 to 30 April 2020, mines and processing facilities placed on C&M
- Exemptions for limited scaled down surface and mechanised operations granted during this period
- Regulations permitting production of 50% (100% open pit) of employment effective 1 May 2020, under strict regulations
 - Rigorous screening of all employees and contractors before they access operations
 - Testing where workers are symptomatic
 - Implementing and enforcing social distancing
 - Provision of quarantine facilities
 - Provision of appropriate PPE, including face masks
 - Establishment and maintenance of a personal hygiene programme
- Next level of restriction allows 100% of employment under strict regulations – timing unknown

PRIMARY SUPPLY LIKELY TO REMAIN STABLE IN THE MEDIUM TERM, WITH DISRUPTION IN THE NEAR TERM

Primary PGM production



Current production outlook

Full impact of Covid-19 shutdown and social distancing protocols is uncertain

Probable projects

replace depletion from existing operations

Processing capacity, water and financing likely to

constrain expansions

RE-IMAGINING MINING TO IMPROVE PEOPLE'S LIVES

FutureSmart Mining™ Quality portfolio Aligning suited to **furthers** people and future themes transformation processes **Operating model Growing population & Technology-driven** efficiencies wealth efficiency **Urbanisation &** Smaller energy & water Platform for electrification footprint step-change Greener, more sustainable Partner of choice P101: setting new world benchmarks

DELIVERING ON OUR SUSTAINABILITY COMMITMENTS











We make it easier to invest in companies that invest in the future.

JS≣

THE FTSE/JSE RESPONSIBLE INVESTMENT INDEX SERIES



One of 325 global companies included in the index



ALIGNING PEOPLE AND PROCESSES

Double benching at Mogalakwena

- From 2020 pit slope design based on double benching
- Moving from 30m to 60m stack height
- Digitalisation enhances slope stability control
- Significant reduction in incremental strip ratio
- · Reduces waste tonnes mined



Rope shovel efficiency

- Digitalisation improves control systems
- Improved utilisation through double side loading
- Better truck positioning reduces shovel hang time
- Rope shovel bucket fill-factor increased
- Fill trucks with fewer loads efficiency gains from increased truck utilisation



Modernisation at Amandelbult

- Tumela 15E mechanisation
- · Dishaba ramp-up
- Modernisation and digitalisation
- · Cycle mining
- PGM recovery improvements
- Asset reliability and maintenance enhancements



FUTURESMART MINING™ - TECHNOLOGY & DIGITALISATION

Concentrating the Mine™ Bulk ore sorter

 Sensors determine ore content prior to processing allowing waste material to be removed

Benefits

- · Immediate grade testing
- Unlocks production capacity by rejecting waste early
- Allows for lower cut off grades
- Reduces mining cost & complexity



Water-less Mine Coarse particle rejection

 Rejection of coarse gangue ahead of the primary flotation

Benefits:

- Unlocks downstream capacity for increased throughput
- Reduced energy consumption
- Reduced water consumption
- Reduced operating cost



Modern Mine XLP at Tumela 15E

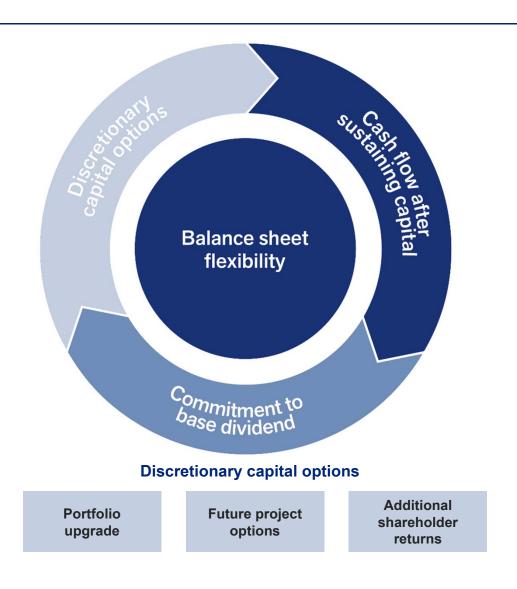
 Extra-low profile mechanised equipment

Benefits

- Safety remote controlled equipment away from mine face
- Lower panel heights result in less dilution of ore with waste
- Faster extraction & improved labour efficiencies
- · Higher level of skilled employees



DISCIPLINED AND VALUE FOCUSSED CAPITAL ALLOCATION



PROJECT STUDIES ON VALUE ACCRETIVE GROWTH OPTIONS

Mogalakwena expansion

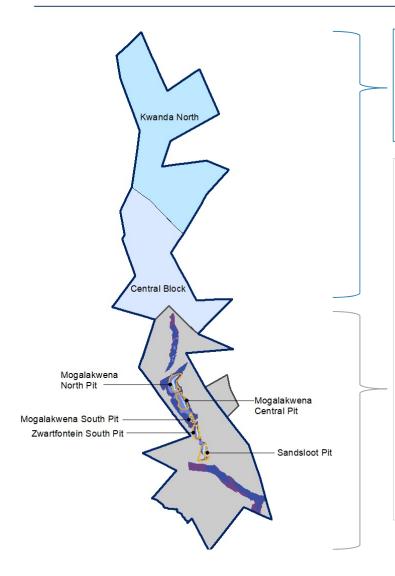
- Feasibility project study on track to complete in 2021, assessing:
 - Construction of third concentrator with breakthrough technology
 - Upgrading and debottlenecking existing concentrators
 - Concurrently studying underground mining options

Der Brochen / Mototolo replacement and growth

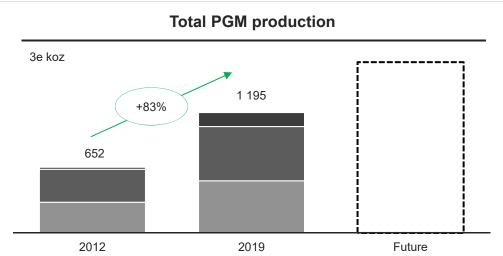
- Replacement of Mototolo in feasibility maintain current production
- Requires establishment of Der Brochen South Shaft to replace Lebowa shaft
- Shaft infrastructure designed such to allow future expansion
 - Breakthrough technology to increase throughput and improve grade into the concentrator

Project studies for value-accretive growth underway Der Brochen / Mototolo - replacement Mogalakwena expansion Pre-feasibility B Significant expansion potential - studies under way Der Brochen / Mototolo - replacement & expansion Expansion potential - studies under way

MOGALAKWENA – WORLD CLASS ASSET



- Doubling the area of Mogalakwena's mining right on the Northern Limb
 - Acquisition of Kwanda North and Central Block prospecting rights on 27 August 2019
 - Prospecting rights incorporated into the Mogalakwena mining right
 - Further exploration and evaluation work required



- 83% increase in production through operational improvement and limited capital investment
- Next phase of growth through increased concentrator capacity, supported by beyond benchmark performance and technology

HISTORY WILL REPEAT ITSELF

- The industry has been reshaped by previous crises, with most industry players having adapted
- We are in the midst of another crisis and supply will be disrupted in the short-term
- A sustainable PGM industry, requires miners to:
 - Proactively address Environmental, Social and Governance responsibilities
 - Invest in modernisation and technology/digitally enabled industry
 - Develop quality assets that deliver required returns through the cycle
 - Appropriately balance the allocation of capital, ensuring the we return capital in addition to generating return on capital
- At Anglo American Platinum we are "re-imagining mining to improve people's lives"
 - Operating model, P101 and FutureSmart Mining™
 - Attractive investment and growth options
 - Developing the market for PGMs



THANK YOU

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