

## **INVESTOR UPDATE CALL**

**11 December 2020** 



Real Mining. Real People. Real Difference.

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Throughout this presentation a range of financial and non-financial measures are used to assess our performance, including a number of financial measures that are not defined or specified under IFRS (International Financial Reporting Standards), which are termed 'Alternative Performance Measures' (APMs). Management uses these measures to monitor the Group's financial performance alongside IFRS measures to improve the comparability of information between reporting periods and business units. These APMs should be considered in addition to, and not as a substitute for, or as superior to, measures of financial performance, financial performance, financial performance, including those in the Group's industry. Accordingly, it may not be comparable with similarly titled measures by other companies.

### **DRIVING TOWARDS A SAFE & HEALTHY FUTURE**

2013

2014

2015



Elimination of Fatalities Taskforce

...driving our improvement journey

Serious incident at Met Coal ... upgrading/increasing automation



Elimination of Hazards at Source ... key focus for sustainable improvement

2016

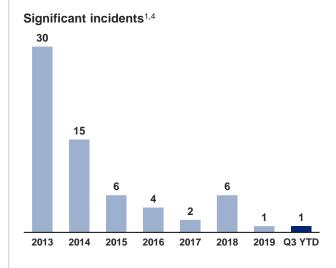
2017

2018

2019 Q3 YTD

Best ever health results ...upgraded work environments & controls

Environment



**Upgraded Planning & Controls** ...supports continuous improvements

Environmental factors integrated in asset plans ... support effective social engagement



### **COMMITTED TO DELIVERY**





### **COVID RESPONSE**

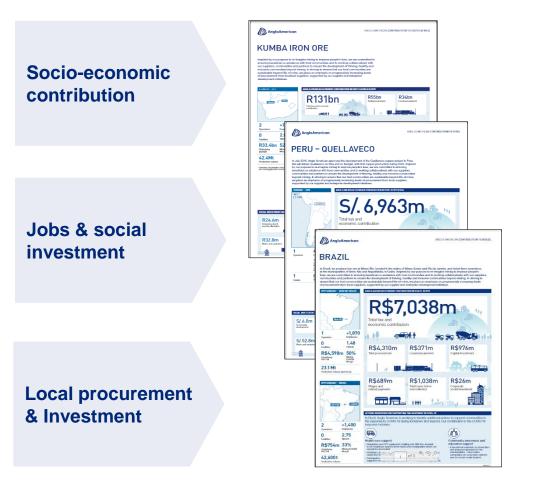
#### **Responsible & holistic approach**

"WeCare" – focused on Lives & Livelihoods

Safe & disciplined operations recovery

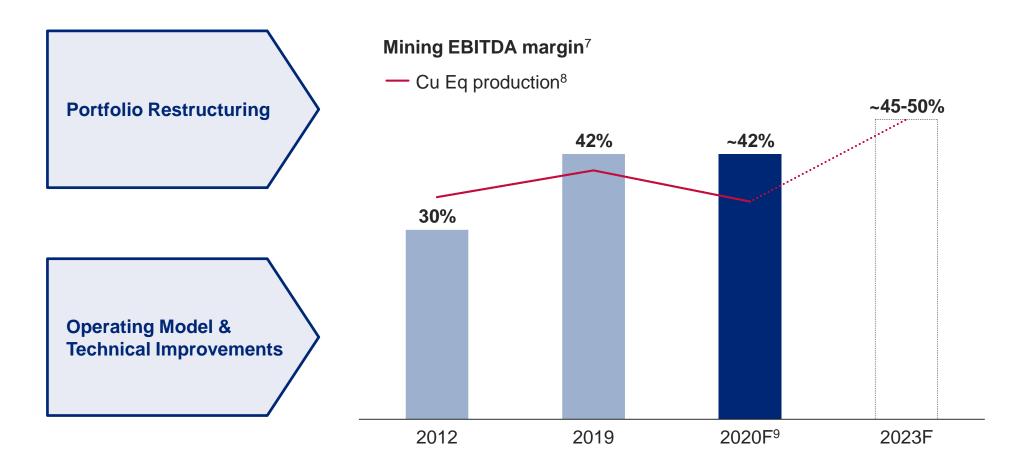
Flexibility & re-phasing of projects & initiatives

#### **Reinforcing our contribution to host communities**



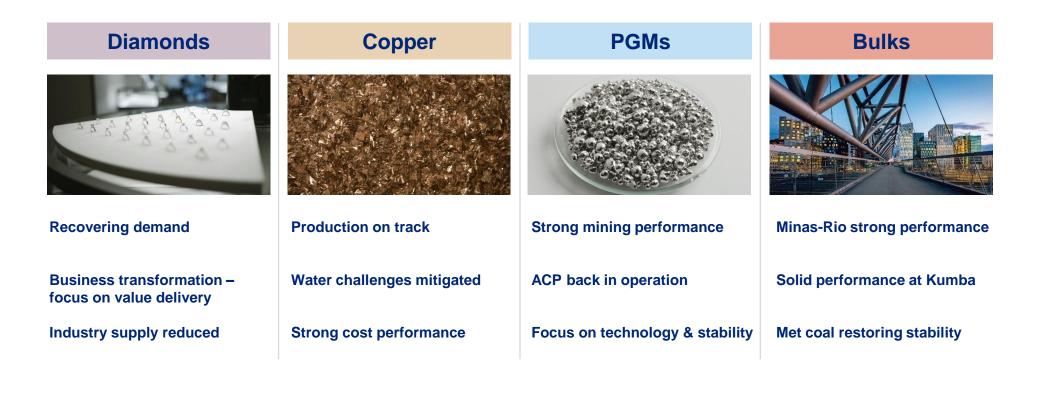


### A TRANSFORMED, ROBUST BUSINESS





### **2020: A SOLID PORTFOLIO PERFORMANCE**





# **THE NUMBERS**

#### **Stephen Pearce**



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### **BALANCED AND DISCIPLINED APPROACH**

~\$5bn

**Cash returns** 

Dividends & buybacks since 2017

**Resilient balance sheet** 



Bottom of cycle net debt:EBITDA<sup>10</sup>

**Strong margin** 

~45-50%

Mining EBITDA margin<sup>7</sup>

**Attractive growth** 

~20%

Cu Eq production – by 2023<sup>8</sup>



### **2020 FULL YEAR GUIDANCE**

Capex<sup>11</sup>



Lower due to Covid & FX

**Depreciation**<sup>13</sup>



Lower due to FX

#### **Inventory build**

~**\$1.7**bn

PGMs & diamonds

Net interest paid



~\$0.8bn in P&L<sup>13</sup>

#### Cu Eq unit cost<sup>8,12</sup>

**↓2**%

9% lower production driven by Covid

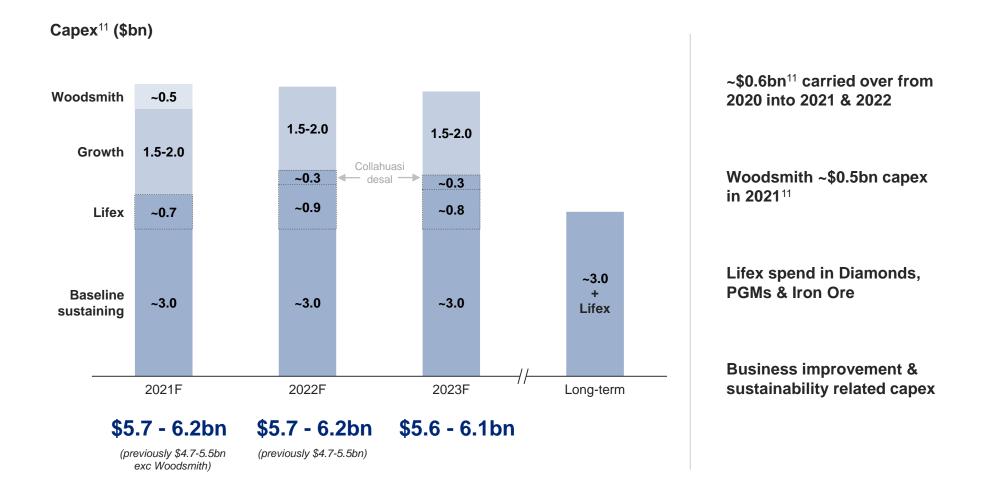
Tax rate<sup>13,14</sup>



30-33% going forward



### HIGH-RETURNING GROWTH OPTIONS AND BUSINESS IMPROVEMENT DRIVE NEAR-TERM CAPEX



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### **IMPROVEMENT INITIATIVES ON TRACK FOR 2022 DELIVERY**



**Operating Model & P101** 

Copper mine & plant

Minas-Rio

~**\$1.5**bn<sup>15</sup>



**Technology & Innovation** 

Bulk Ore Sorting Coarse Particle Recovery

up to ~\$1.0bn<sup>15</sup>



**Project Delivery** 

Quellaveco (Copper) Marine Namibia (Diamonds)

up to ~\$1.5bn<sup>15</sup>



### **DISCIPLINED, MARGIN ENHANCING GROWTH**

**Cu Eq production**<sup>8</sup>

**2021 unit costs**<sup>8,12</sup>









# **VALUE ADDED GROWTH**

#### **Mark Cutifani**



**Real Mining. Real People. Real Difference.** 

### **COPPER: WORLD CLASS GROWTH**

#### Quellaveco



#### Collahuasi

Targeting ~20% initial capacity expansion

Permitting process ongoing

#### **Los Bronces**

Underground project, adding production/life

Permitting process ongoing

#### **Future options**

Sakatti (Finland) – EIA submitted

**Quellaveco district** 

**2021 Capex**<sup>11</sup>

~\$1.3 to ~\$1.6bn (our share ~\$0.8 to ~\$1.0bn)

Total Capex<sup>11</sup>

~\$5.3 to ~\$5.5bn

(our share ~\$2.7 to ~\$2.8bn)

Construction progressing well

>9,000 staff now on site

Project remains on schedule

### **WOODSMITH – MAJOR RESOURCE & UNIQUE ASSET**

Scale, geology and geography drive Tier 1 potential

Suited to modern mining methods

Q1 on cost curve; low carbon, organic<sup>16</sup> product

POLY4 demand driven by qualities & global customers

Positive market feedback for product

Increasing support for organic products in EU & China

Effectiveness confirmed by crop trials at increasing scale



2020 capex on target for ~\$0.3bn

Strong tunnel progress; shafts and associated developments on critical path

Technical review on-going – completion mid-2021

### 2021 Capex ~\$0.5bn

(previously ~\$0.3bn)





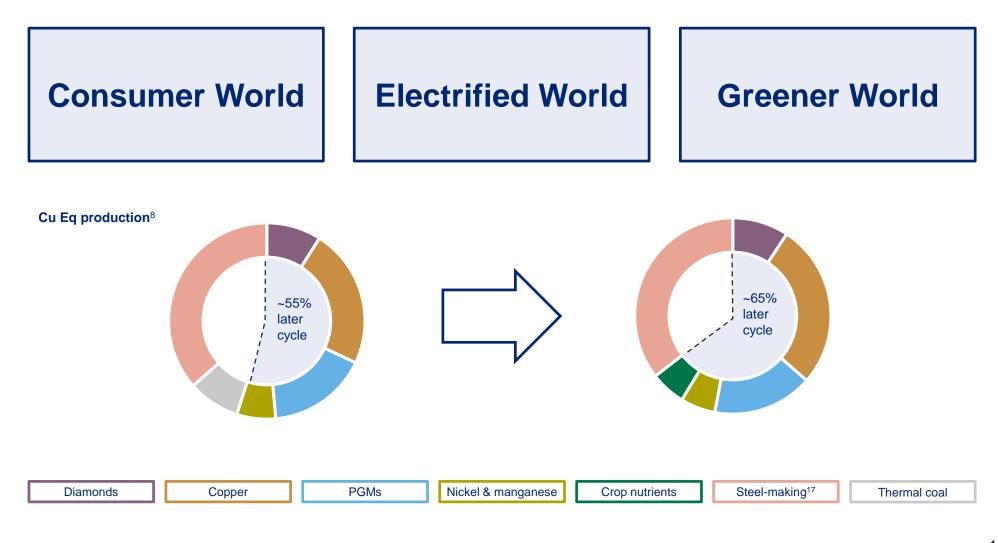
# **A SUSTAINABLE FUTURE**

#### Mark Cutifani



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### **PORTFOLIO POSITIONED FOR A SUSTAINABLE FUTURE**





### HIGH QUALITY BULKS FOR A DEVELOPING WORLD



Exit from SA thermal coal operations expected within 1.5 to 2.5 years

Increasing steel demand integral to economic development

Our focus on high quality helps manage carbon emissions



### **DE BEERS POSITIONED FOR DIAMONDS RECOVERY**



Pandemic impacting supply

Capacity offline

Strong fundamentals

De Beers quality assets

~30Mct

>20% of industry annual production, response to Covid & closures

~50%

Mining EBITDA margin<sup>7</sup>



### **ENVIRONMENTAL FOCUS DRIVING PGM DEMAND**



#### **Tighter emissions standards**

Euro 7: +15% PGMs loadings by 2026

China VI: ~500koz PGMs for heavy diesel vehicles

#### **Diverse applications**

Chemicals, glass manufacturing, emerging demand in food storage and 5G technology

Hydrogen fuel cells & PEM electrolysis driving longer term demand



## HYDROGEN DRIVES LONG TERM PLATINUM DEMAND

#### A clean & potentially abundant fuel...



High energy density



Easy transport & storage

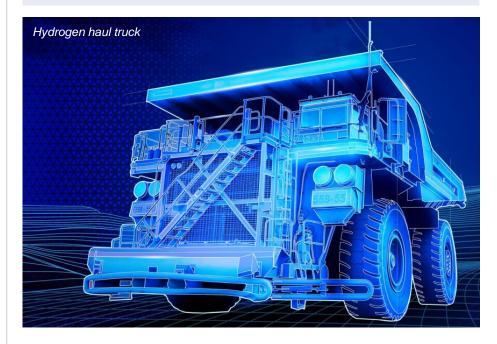


Clean at point of use



Potential green production

... supporting greener operations.



Hydrogen haulage reduces emissions ~4-8oz per truck vs ~2oz for diesel Full cost parity by ~2030

## **ACTIVE ROUTE TO A GREENER WORLD**

Carbon neutral operations by 2040<sup>21</sup>

Chile & Brazil **100% renewable** by 2021/22, **Hydrogen** haulage in development

8 sites carbon neutral by 2030<sup>21</sup> Technology minimises environmental footprint

Bulk Ore Sorting installation for Copper, PGMs & Nickel

Coarse Particle Recovery being installed in Copper

**2030** improvement targets<sup>22</sup>

Energy efficiency



GHG emissions

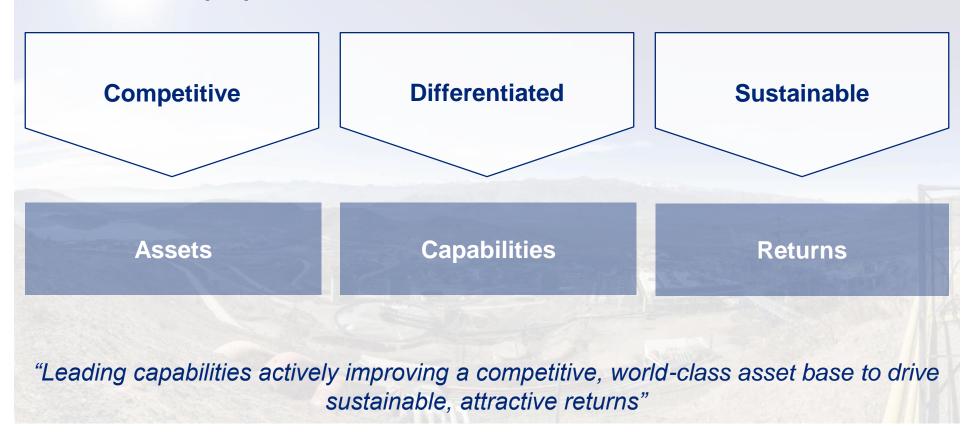


Water abstraction

50%

### Q&A

### **Our investment proposition**





## FOOTNOTES

All metrics in presentation shown on an underlying basis.

- Recordable incidents. Data relates to subsidiaries and joint operations over which Anglo American has management control. Since 2018 data for fatalities, TRCFR and environmental metrics excludes results from De Beers' joint operations in Namibia and Botswana. Prior years' data includes 100% of De Beers' joint operations in Namibia and Botswana.
- 2. Total Recordable Cases Frequency Rate per million hours.
- 3. New cases of occupational disease.
- 4. Environmental incidents are classified in terms of a 5-level severity rating. Incidents with medium, high and major impacts, as defined by standard internal definitions, are reported as level 3-5 incidents.
- 5. Long term target for 'Cash flow after sustaining capital'/ capital employed.
- 6. Attributable ROCE is defined as attributable underlying EBIT divided by average attributable capital employed. It excludes the portion of the return and capital employed attributable to non-controlling interests in operations where the Group has control but does not hold 100% of the equity.
- 7. Margin represents the Group's underlying EBITDA margin for the mining business. It excludes the impact of non-mining activities (eg PGMs purchases of concentrate, sale of non-equity product by De Beers, 3<sup>rd</sup>-party trading activities performed by Marketing) & at Group level reflects Debswana accounting treatment as a 50/50 JV. Mining margin for De Beers on a stand alone basis is based on proportionate consolidation of mining businesses in De Beers only.
- Copper equivalent production is calculated using long-term consensus parameters. Excludes domestic / cost-plus production. Includes assets sold, closed or placed on care and maintenance. ~20% growth from 2018 to 2023, ~25% growth from 2018 to 2025.
- 9. At spot prices and foreign exchange rates.
- 10. Underlying EBITDA is operating profit before special items and remeasurements adjusted to include the Group's attributable share of associates' and joint ventures' operating profit and exclude depreciation and amortisation.

- 11. Cash expenditure on property, plant and equipment including related derivatives, net of proceeds from disposal of property, plant and equipment and includes direct funding for capital expenditure from non-controlling interests and reimbursement of capital expenditure. Shown excluding capitalised operating cash flows. Consequently, for Quellaveco, reflects attributable share of capex, see appendix. Capex guidance is subject to progress of growth project studies. Woodsmith spend post-2021 not included pending completion of technical review.
- 12. Copper equivalent unit costs are shown on nominal terms and calculated as the total USD cost base divided by copper equivalent production.
- 13. Metrics on an underlying basis.
- 14. ETR is highly dependent on a number of factors, including the mix of profits, and may vary from the guided ranges.
- 15. Underlying run-rate improvement vs 2017.
- 16. Certified for organic use and suitable for organic farming.
- 17. High quality iron ore and metallurgical coal.
- 18. Production from primary thermal coal mines (ie excluding thermal coal produced as a by product).
- 19. Based on released sight data. Sales values are quoted on a consolidated accounting basis. Auction sales included in a given cycle are the sum of all sales between the end of the preceding cycle and the end of the noted cycle.
- 20. Price for a basket of goods per platinum oz. The dollar basket price is the net sales revenue from all metals (PGMs, base metals and other metals) per platinum ounce sold excluding trading.
- 21. For more information on carbon neutral targets see Sustainable Performance presentation from 30 October 2020.
- 22. Included within Healthy Environment related Global Stretch Goals in Sustainable Mining Plan (<u>https://www.angloamerican.com/sustainability/environment</u>).



# **APPENDIX**



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### **GUIDANCE SUMMARY**

Farnings

Earnings
olumes: See slide 28-29
nit costs: See slide 30

V

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2020 depreciation: ~\$2.7bn Previously: \$2.7-2.9bn

2021 depreciation: \$3.2-3.4bn

2020 net interest expense: ~\$0.8bn

2020 effective tax rate: ~32%<sup>2</sup> Previously: 31-33%

**2021 effective tax rate**: 30-32%<sup>2</sup>

Effective tax rate going forward: 30-33%<sup>2</sup>

**Dividend pay-out ratio**: 40%

	Capex <sup>1</sup>					
2	020	<b>~\$4.0bn</b> Previously: \$4.0-4.5bn				
-	Growth	~\$1.4bn Previously: \$1.3-1.5bn				
-	Sustaining	~ <b>\$2.6bn</b> Previously: \$2.7-3.0bn				
2	021	\$5.7-6.2bn				
-	Growth	\$1.5-2.0bn				
-	Woodsmith	~\$0.5bn				
-	Sustaining	~\$3.7bn				
2	022	\$5.7-6.2bn				
-	Growth	\$1.5-2.0bn				
-	Sustaining	~\$4.2bn				
2	023	\$5.6-6.1bn				
-	Growth	\$1.5-2.0bn				
-	Sustaining	~\$4.1bn				
Ľ	T sustaining	~\$3.0bn + lifex				

#### Other

#### Quellaveco copper project

- 2020 capex: 100% ~\$1.3bn; our share ~\$0.8bn Previously: 100% \$1.2-1.5bn; our share: \$0.7-0.9bn
- 2021 capex: 100% \$1.3-1.6bn; our share \$0.8-1.0bn
- Our share of capex included in capex guidance
- Mitsubishi share of capex increase to net debt (slide 34)

Net debt:EBITDA<sup>-</sup> <1.5x bottom of cycle

2020 inventory build: ~\$1.7bn

2020 net interest paid: ~\$0.4bn

1. Cash expenditure on property, plant and equipment including related derivatives, net of proceeds from disposal of property, plant and equipment and includes direct funding for capital expenditure from non-controlling interests and reimbursement of capital expenditure. Shown excluding capitalised operating cash flows. Consequently, for Quellaveco, reflects attributable share of capex, see slide 34. Capex guidance is subject to progress of growth project studies and Woodsmith is excluded after 2021 pending completion of technical review. See slide 11 for previous 2021-22 guidance and further detail on sustaining capex guidance.

2. ETR is highly dependent on a number of factors, including the mix of profits, and may vary from the guided ranges.

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## **PRODUCTION OUTLOOK**

	Units	2019	2020F	2021F	2022F	2023F (New)
Diamonds <sup>1</sup>	Mct	31	~26 Previously: 25-27	<b>33-35</b> Previously: 34-36	<b>30-33</b> Previously: 33-35	30-33
Copper <sup>2</sup>	kt	638	640-650 Previously: 630-660	640-680 Previously: 620-680	680-790 Previously: 700-810	890-1,000
Platinum Group Metals <sup>3</sup>	Moz	4.4	3.6-3.8	4.2-4.6	4.2-4.6	4.2-4.6
Iron ore <sup>4</sup>	Mt	66	60-61 Previously: 59-63	64-67 Previously: 66-69	65-68	66-69
Metallurgical coal <sup>5</sup>	Mt	23	~17 Previously: 16-18	18-20	<b>22-24</b> Previously: 25-27	23-25
Thermal coal <sup>6</sup>	Mt	26	~19	~24 Previously: ~26	~24 Previously: ~26	~24
Nickel <sup>7</sup>	kt	43	~43 Previously: 42-44	42-44	42-44 Previously: ~50	47-49

See next slide for footnotes and additional guidance provided on a transitional basis.



## **PRODUCTION OUTLOOK – SUPPLEMENTARY GUIDANCE**

	Units	2019	2020F	2021F	2022F	2023F (New)
Copper <sup>2</sup>	kt	638	640-650 Previously: 630-660	640-680 Previously: 620-680	Chile: 580-640 Previously: 600-660 Peru: 100-150	Chile: 590-650 Peru: 300-350
Platinum Group Metals – M&C by metal <sup>3</sup>	Moz	4.4	Pt: 1.7-1.8 Pd: 1.1-1.2 Other: ~0.8	Pt: 1.9-2.1 Previously: 2.0-2.2 Pd: 1.4-1.5 Previously: ~1.4 Other: 0.9-1.0	Pt: 1.9-2.1 Previously: 2.0-2.2 Pd: 1.4-1.5 Previously: 1.4-1.5 Other: 0.9-1.0	Pt: 1.9-2.1 Pd: 1.4-1.5 Other: 0.9-1.0
Platinum Group Metals – Refined <sup>8</sup>	Moz	4.7	2.6-2.7	4.6-5.0	4.7-5.1	4.2-4.6
Iron ore (Kumba) <sup>9</sup>	Mt	42	~37 Previously: 37-39	40-41 Previously: 42-43	<b>41-42</b> Previously: 42-43	41-42
Iron ore (Minas-Rio) <sup>10</sup>	Mt	23	<b>23-24</b> Previously: 22-24	24-26	<b>24-26</b> Previously: 23-25	25-27
Thermal coal <sup>6</sup>	Mt	South Africa: 18 Colombia: 9	South Africa: ~15 Colombia: ~4	South Africa: ~16 Colombia: ~8 Previously: ~26Mt total	South Africa: ~16 Colombia: ~8 Previously: ~26Mt total	South Africa: ~16 Colombia: ~8

1. Production is subject to trading conditions and reported on a 100% basis except for the Gahcho Kué joint operation, which is on an attributable 51% basis. Reduction in 2022 as Venetia completes transition to underground operations.

2. Copper business unit only. On a contained-metal basis. Decrease in Chile production from 2022 driven by lower expected grades at Collahuasi and Los Bronces.

3. 5E<sup>+</sup> gold produced metal in concentrate ounces. Includes own mined production (~60%) and purchased concentrate volumes (~40%). The split of metals differs for own mined and purchased concentrate refer to FY2019 results presentation slide 30 for indicative split of own mined volumes.

4. Total iron ore is the sum of Kumba (dry basis) and Minas-Rio (wet basis).

5. Excludes thermal coal production in Australia. Lower production in 2020 and 2021 owning to Grosvenor stoppage. Lower volumes in 2022 versus previous guidance owing to revised timing for the Moranbah-Grosvenor plant expansion project.

6. Export South Africa including production sold domestically at export parity pricing and Colombia production. Planned divestment of SA thermal coal production capacity expected no later than May 2022 - May 2023. Lower volumes in 2021 and 2022 versus previous guidance reflecting lower Colombian volumes in response to market demand and revised South African production.

7. Nickel business unit only. Lower volumes in 2022 versus previous guidance as benefit from bulk ore sorting technology and briquetting is now expected in 2023.

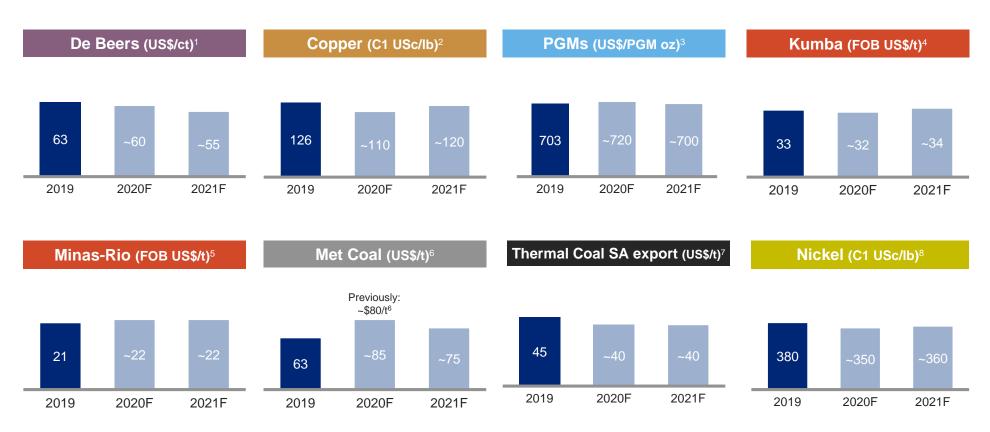
8. 5E + gold produced refined ounces. Includes own mined production and purchased concentrate volumes. Decrease in 2023 due to Polokwane smelter rebuild and high base metals content in own mined volumes. Refer to Anglo American Platinum release for split of guidance by metal.

9. Dry basis. Subject to rail and port performance. Lower guidance from 2021 reflects logistical constraints.

10. Volumes are reported as wet metric tonnes (wmt). Product is shipped with ~9 per cent moisture. Pipeline inspections impact 2020 and 2022 volumes.



### **UNIT COSTS PERFORMANCE BY BUSINESS UNIT**



Note: Unit costs are subject to any further effects of Covid-19 and exclude royalties, depreciation and include direct support costs only.

FX rates for 2021 costs: ~16 ZAR:USD, ~1.4 AUD:USD, ~5.3 BRL:USD, ~760 CLP:USD.

- 1. De Beers unit cost is based on De Beers' share of production. Improvement in 2021 reflects higher volumes from Venetia open pit as it reaches end of life.
- 2. 2021 unit cost increase vs 2020 reflects stronger Chilean peso, impact of inflation and ongoing Covid-19 mitigation activities.
- 3. Numbers given are per own mined 5E+Au PGMs metal in concentrate ounce. 2020 guidance was previously issued at ~\$1,600 per platinum ounce, which is equivalent to ~\$720/PGM oz. 2021 guidance is equivalent to ~\$1,600 per platinum ounce.
- 4. Unit costs are reported based on dry metric tonnes (wmt). Benefit of higher volumes in 2021 offset by unfavourable foreign exchange and inflation.
- 5. Unit costs are reported based on wet metric tonnes (wmt). Product is shipped with ~9 per cent moisture. Benefit of higher volumes in 2021 offset by inflation.
- 6. Metallurgical Coal FOB/t unit cost excludes royalties and study costs. 2020 unit cost increase vs previous guidance due to geotechnical challenges. Improvement in 2021 reflects higher volumes.
- 7. Thermal Coal SA FOB/t unit cost comprises trade mines only, excludes royalties. Benefit of higher volumes in 2021 offset by unfavourable foreign exchange
- 8. 2021 unit cost increase vs 2020 reflects inflation.



## ATTRACTIVE GREENFIELD AND BROWNFIELD OPTIONS

#### Long life greenfields and fast returning brownfields

		Our share:		From:			
Quellaveco (Copper)	APPROVED	\$2.7bn to \$2.8bn <sup>1</sup>	+180ktpa	2022	~4 year payback	>15% IRR	>50% margin
Marine Namibia (Diamonds)	APPROVED	~\$0.2bn	+0.5Mctpa	2022	~3 year payback	>25% IRR	>60% margin
Woodsmith (Crop Nutrients) <sup>2</sup>	APPROVED	~\$3.3bn <sup>2</sup>	+10Mtpa	Optimisation	of development time	eline and desig	n ongoing
Mogalakwena expansion (PGM	s) -2021	Studies ongoing, e	xpected ~500k	oz PGMs, 2025	5		
Sishen (Kumba Iron Ore)	~2021	Studies ongoing					
Collahuasi Phase 1 (Copper)	-2021	~\$0.6bn	+50ktpa	2023/24	~4 year payback	>20% IRR	>50% margin
Collahuasi Phase 2 (Copper)	-2024	Studies underway	for next stage	expansion; pote	ential up to +100ktpa	a from 2028	
Moranbah-Grosvenor (Met Coa	I) -2022	\$0.3bn to \$0.4bn	+4-6Mtpa <sup>3</sup>	2024	~3-4 year payback	>30% IRR	>50% margin
Technology & Innovation	ONGOING	\$0.2bn to \$0.5bn pa	multiple optic	ns - rapid payb	ack, high profitabilit	y, sustainability	v benefits

- 1. Attributable share post syndication proceeds.
- 2. Project capex approved prior to acquisition in March 2020, subject to optimisation of development timeline and design post acquisition. Not included in capex guidance after 2021.
- 3. Initial stage of upgrade work completed in 2019, increasing capacity by ~1Mtpa, remaining capacity increase 3-5Mtpa.

### LIFE EXTENSIONS WILL DELIVER VALUE; HIGHER NEAR-TERM SUSTAINING CAPEX

Sustaining capex<sup>1</sup>:

2020	2021	2022	2023	Long-term
~\$2.6bn	~\$3.7bn	~\$4.2bn	~\$4.1bn	~\$3.0bn
helped by deferrals & favourable Fx	deferrals	from 2020, lifex & Fx	<u>C</u>	+ lifex

#### Lifex projects – subject to disciplined capital allocation framework

Venetia Underground (Diamonds)	~\$0.2-0.4bn pa	5 Mctpa	from 2023	+22 years	>15% IRR	>50% margin
Aquila <sup>2</sup> (Met Coal)	~\$0.1bn pa	3.5 Mtpa	from 2022	+6 years	>30% IRR	>40% margin
Kolomela (Kumba Iron Ore)	~\$0.2bn pa	4 Mtpa	from 2024	+3 years <sup>3</sup>	>25% IRR	>35% margin
Jwaneng (Diamonds)	~\$0.1bn pa	9 Mctpa	from 2027	+7 years	>15% IRR	>50% margin

<sup>1.</sup> Cash expenditure on property, plant and equipment including related derivatives, net of proceeds from disposal of property, plant and equipment and includes direct funding for capital expenditure from non-controlling interests and reimbursement of capital expenditure. Long-term sustaining capex excludes Woodsmith.

- 2. Lifex for Grasstree underground mine within Capcoal complex.
- 3. The three year life extension was already reflected in the previously disclosed LOM of 13 years.



### **QUELLAVECO FINANCIAL MODELLING**

Ownership	Anglo American 60%, Mitsubishi 40%
Accounting treatment	Fully consolidated with a 40% minority interest Shareholder loans from minority shareholder consolidated in Anglo American net debt
Project capex (nominal)	\$5.3-5.5 billion (100% basis - Anglo American share 60%, Mitsubishi share 40%)
Construction time / first production	<4 years, from August 2018. First production in 2022
Production (copper equivalent) (ktpa)	~330 average over first five years ~300 average over first 10 years ~240 average over 30 year Reserve Life
By-products	~6ktpa contained molybdenum (average over first 10 years), with silver content
C1 cash cost (\$/lb) (2018 real)	0.96 average over first five years 1.05 average over first 10 years 1.24 average over 30 year Reserve Life
Grade (%TCu)	0.84% ROM average over first five years 0.73% ROM average over first 10 years 0.57% average over 30 year Reserve Life <sup>1</sup>
Stay-in-business capex (real)	~\$70 million pa
Tax rate	~40%

1. Please refer to the Anglo American plc Ore Reserves and Mineral Resources Report 2019 for more details.



### **QUELLAVECO ACCOUNTING**

Anglo American consolidates 100% of Quellaveco's P&L and Balance Sheet.

Mitsubishi's 40% share is shown as a non-controlling interest.

After the initial \$0.8bn equity injection by Mitsubishi, the project is now funded 60:40 through shareholder debt.

Group net debt by the end of the project is expected to include ~\$1.8bn debt from Mitsubishi (40% of shareholder debt); which is funded from their 40% of Quellaveco.

#### Illustrative project spend post approval (mid point of \$5.3-5.5bn project total capex range) \$bn 2018 2019 2020 2021 2022 Total 100% project capex 0.3 1.3 1.3 1.5 1.0 5.4 Less: subscription (0.3)(0.5) (0.8)---0.8 1.3 1.5 1.0 Net capex 4.6 Consolidated net debt (cash funded by Anglo and Our 60% share 0.5 0.8 0.9 0.6 2.8 reported within growth capex). Mitsubishi 40% 0.3 0.5 0.6 0.4 1.8 Consolidated net debt share (cash funded by Mitsubishi but reported within our other net debt movements). Reported in 'Other net debt movements' in 2018 representing cash received but not spent at 2018 year end.

Reverses with \$0.5bn outflow in 2019 '**Other net debt movements**' representing pre-funded capex.



# **INNOVATION & TECHNOLOGY**

#### Highlights recap from our October Sustainability event



**Real Mining. Real People. Real Difference.** 

### **INNOVATIVE TECHNOLOGIES IN DEVELOPMENT & ROLL-OUT**



#### **Barro Alto**

- Initial installation October 2019
- Testing completed August 2020
- \$40m capex for 100% throughput phased upgrade through 2022

#### **Bulk Ore Sorting**

Sensors determine ore content prior to processing Waste rejected early:

- Grade uplift: +7% to 20%
- Energy, water & cost savings

Capital cost \$10m to \$70m (volume dependent)

12 months full scale testing at El Soldado complete, 9% average grade uplift

Deployed in Copper, Nickel and PGMs

#### Mogalakwena

- Initial installation June 2019
- Testing completed November 2020
- \$30m capex for up to 100% of throughput due end-2021

#### Los Bronces

- Initial installation and testing complete through Q1 2021
- Phase 1 \$10m capex for up to ~60% of throughput (90ktpd)
- Phase 2 \$70m for 100% of throughput mid-2023

### **INNOVATIVE TECHNOLOGIES IN DEVELOPMENT & ROLL-OUT**

#### **Coarse Particle Flotation**

Flotation process changed

Allows material to be crushed to larger particle size:

- Throughput increase: +15% to 20%
- 20% energy reduction
- Up to 85% water recovery with hydraulic dry stack

Capital cost \$10m to \$50m

#### El Soldado

• Start up in Q1 2021

80% of volume

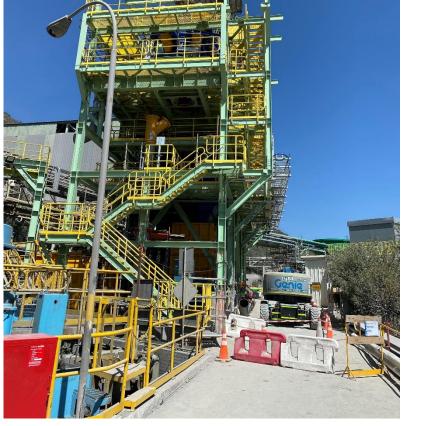
- Mogalakwena North
- Start up in Q3 2021
- 100% of volume

#### Next planned rollouts

Los Bronces

• Minas-Rio







### **INNOVATIVE TECHNOLOGIES IN DEVELOPMENT & ROLL-OUT**

#### Hydraulic dry stack

Engineer tailings facilities that dry out in weeks

Geotechnically stable

Can be repurposed and terraformed

Up to 85% water recovery

El Soldado unit under construction, complete in Q3 2021

#### Hydrogen powered haulage

Full cost comparable to diesel today, parity by 2030

~4-8oz per truck vs ~2oz for diesel

50% to 70% reduction in emissions (Scope 1 and 2 for open pit mines), while maintaining operating cost structure

First motion at Mogalakwena in 2021, with 40 truck rollout from 2024. ~320-340 MW Solar array power generating green hydrogen via electrolysis

7 sites in planning for rollout completion by 2030

#### **Advanced Process Control**

Uses process models, replaces manual control of processes Optimises process performance Up to 40% improvements in stability & productivity at certain operations

#### **Others**

Safety: collision avoidance, underground connectivity Sustainability: gas management Shock break Data analytics

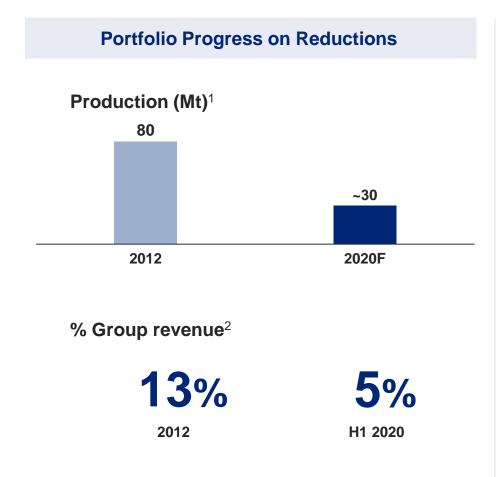


### **TECHNOLOGY MINIMISES OUR ENVIRONMENTAL FOOTPRINT**

Energy usage	GHG emissions	Water abstraction
30%	30%	<b>50%</b>
reduction by 2030	reduction by 2030	reduction by 2030

2020	2030		2040
<b>8%</b> energy reduction	<b>30%</b> improvement in energy efficiency	<b>30%</b> absolute reduction in GHG emissions	Carbon neutrality across our
<b>22%</b> saving in GHG emissions against projected BAU	<b>8</b> sites carbon neutral	Net positive impact delivered on biodiversity	operations
Improve Invest in efficiency innovation		Transition the portfolio	Balance residual emissions

### **RESPONSIBLE EXIT: SA THERMAL COAL OPERATIONS**



**Exit: SA Thermal Coal operations** 

**Current production capacity** 

~20Mtpa

**Responsible** approach to transition

**De-merger** most likely route with primary JSE listing

**Timeframe** expected within 1.5 – 2.5 years

High quality, low cost assets

1. Production from primary thermal coal mines (ie excluding thermal coal produced as a by product).

2. Revenue from sales of mined coal as a proportion of total group revenue including share of revenue from associates and joint ventures.

AngloAmerican



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